

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

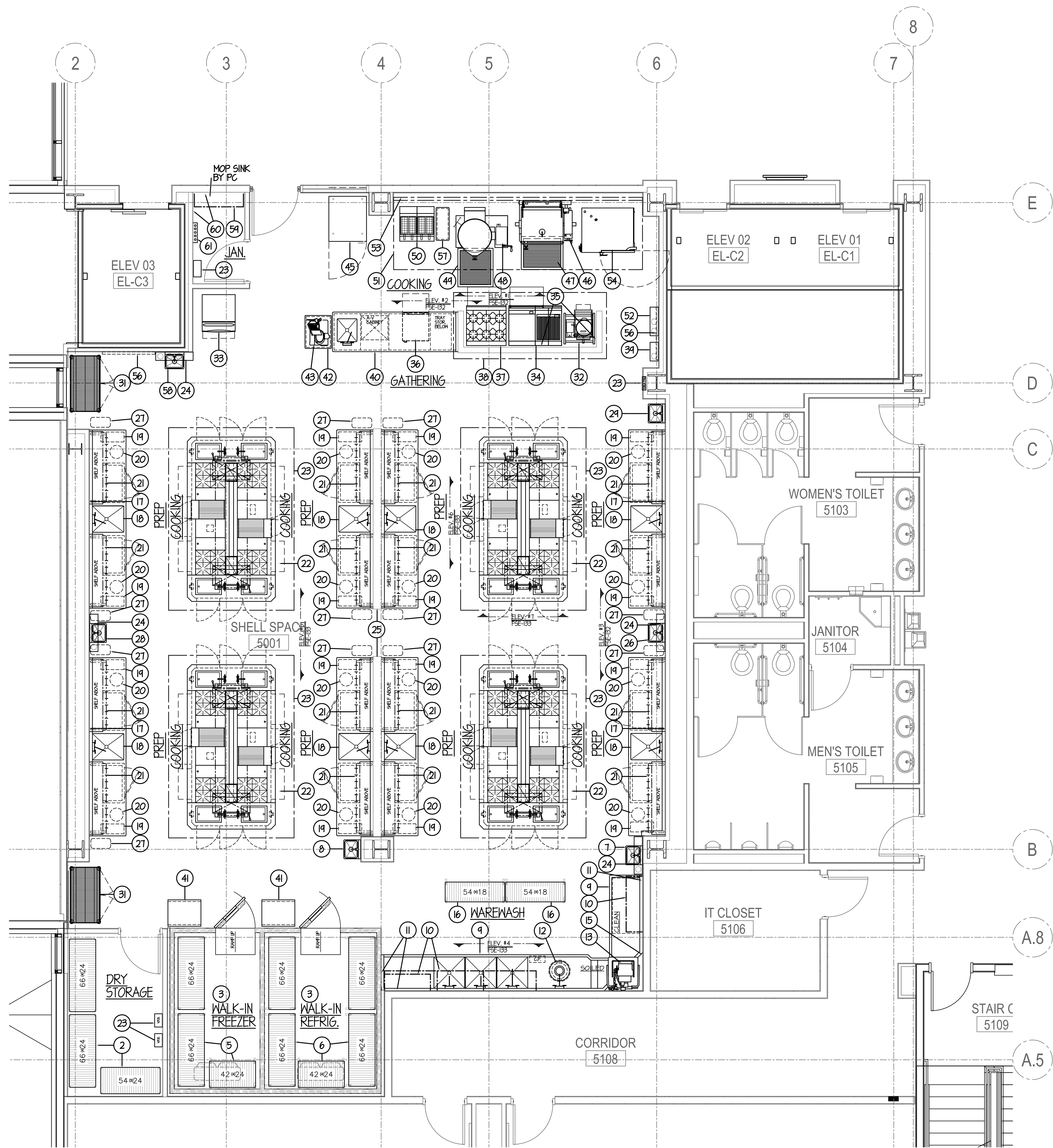
DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

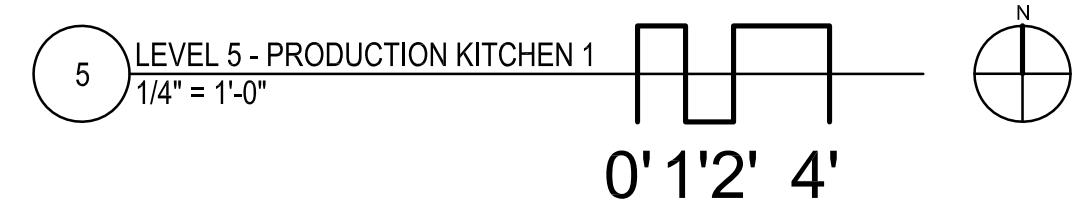
<b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE PLAN - OVERALL</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS</b>		SHEET NO.
<b>JOLIET JUNIOR COLLEGE</b>		<b>FSE-0</b>
		OF SHEETS



EQUIPMENT SCHEDULE		
ITEM	QTY	DESCRIPTION
1	-	SPARE - NOT USED
2	1 LOT	DRY STORAGE SHELVING **
3	1	WALK-IN REFRIGERATOR/FREEZER **
4	-	SPARE - NOT USED
5	1 LOT	PORTABLE WALK-IN FREEZER SHELVING **
6	1 LOT	PORTABLE WALK-IN REFRIGERATOR SHELVING **
7	1	ST. ST. HAND SINK
8	1	ST. ST. HAND SINK
9	1 LOT	ST. ST. DISHABLES & 3 COMPARTMENT SINK
10	1 LOT	WIRE WALL SHELVING
11	1 LOT	ST. ST. WALL PANELING
12	1	3 HP. DISPOSER & SPRAY ASSEMBLY
13	1	VENTLESS DOOR-TYPE DISHWASHER
14	-	SPARE - NOT USED
15	1	SOAP & RINSE DISPENSER - "NIC" **
16	1 LOT	STORAGE SHELVING
17	1 LOT	30" HIGH ST. ST. WALL PANELING **
18	8	ST. ST. WORK COUNTER W/ REFRIG. & SINK
19	16	STUDENT TOOL KIT - "NIC"
20	16	STUDENT STOOL - "NIC"
21	16	UTENSIL RACK
22	4	WALDORF STYLE COOKING BATTERY
23	4	ST. ST. ISLAND EXHAUST HOOD W/ MARVEL SYSTEM **
24	4	FIRE SUPPRESSION SYSTEM
25	1 LOT	ST. ST. WALL COVERING
26	1	ST. ST. HAND SINK
27	12	TRASH RECEPTACLE - "NIC"
28	1	ST. ST. HAND SINK
29	1	ST. ST. HAND SINK
30	-	SPARE - NOT USED
31	2	SECURED STORAGE SHELVING **
32	1	20 QT. TILTING KETTLE W/ STAND (GAS)
33	1	ICE MAKER W/ BIN
34	1	GRIDDLE TOP CHARBROILER W/ OVEN
35	1	ST. ST. WALL PANELING & CAP
36	1	UNDERCOUNTER DISHWASHER
37	1	SIX BURNER RANGE W/ CONVECTION OVEN
38	1	ST. ST. ISLAND EXHAUST HOOD
39	1	FIRE SUPPRESSION SYSTEM
40	1	ST. ST. DEMONSTRATION COUNTER W/ SINK
41	2	PORTABLE PAN RACKS **
42	1	ST. ST. PORTABLE SLICER STAND
43	1	AUTOMATIC SLICER **
44	-	SPARE - NOT USED
45	1	REACH-IN BLAST CHILLER
46	1	TILTING BRAISING PAN
47	1	ST. ST. FLOOR DRAINER
48	1	60 GALLON TILTING KETTLE
49	1	ST. ST. FLOOR DRAINER
50	1	FRYER SYSTEM **
51	1	ST. ST. EXHAUST HOOD
52	1	FIRE SUPPRESSION SYSTEM
53	1 LOT	ST. ST. WALL PANELING
54	1	CORNER OVEN W/ STAND
55	-	SPARE - NOT USED
56	2	DRY ERASE BOARD - "NIC"
57	1	ST. ST. SPACER TABLE
58	1	ST. ST. HAND SINK
59	1 LOT	WALL MOUNTED CHEMICAL STORAGE SHELVING
60	2	ST. ST. WALL PANELS
61	1	WALL MOUNTED MOP RACK - "NIC"
62	-	SPARE - NOT USED
63	-	SPARE - NOT USED
64	-	SPARE - NOT USED
65	-	SPARE - NOT USED
66	-	SPARE - NOT USED
67	-	SPARE - NOT USED
68	-	SPARE - NOT USED
69	-	SPARE - NOT USED
70	-	SPARE - NOT USED

\*\* FURNISHED BY USING AGENCY- INSTALLED BY GC

**ALL PRODUCTION KITCHEN 1 EQUIPMENT TO BE BID UNDER ALTERNATE BID G-2**



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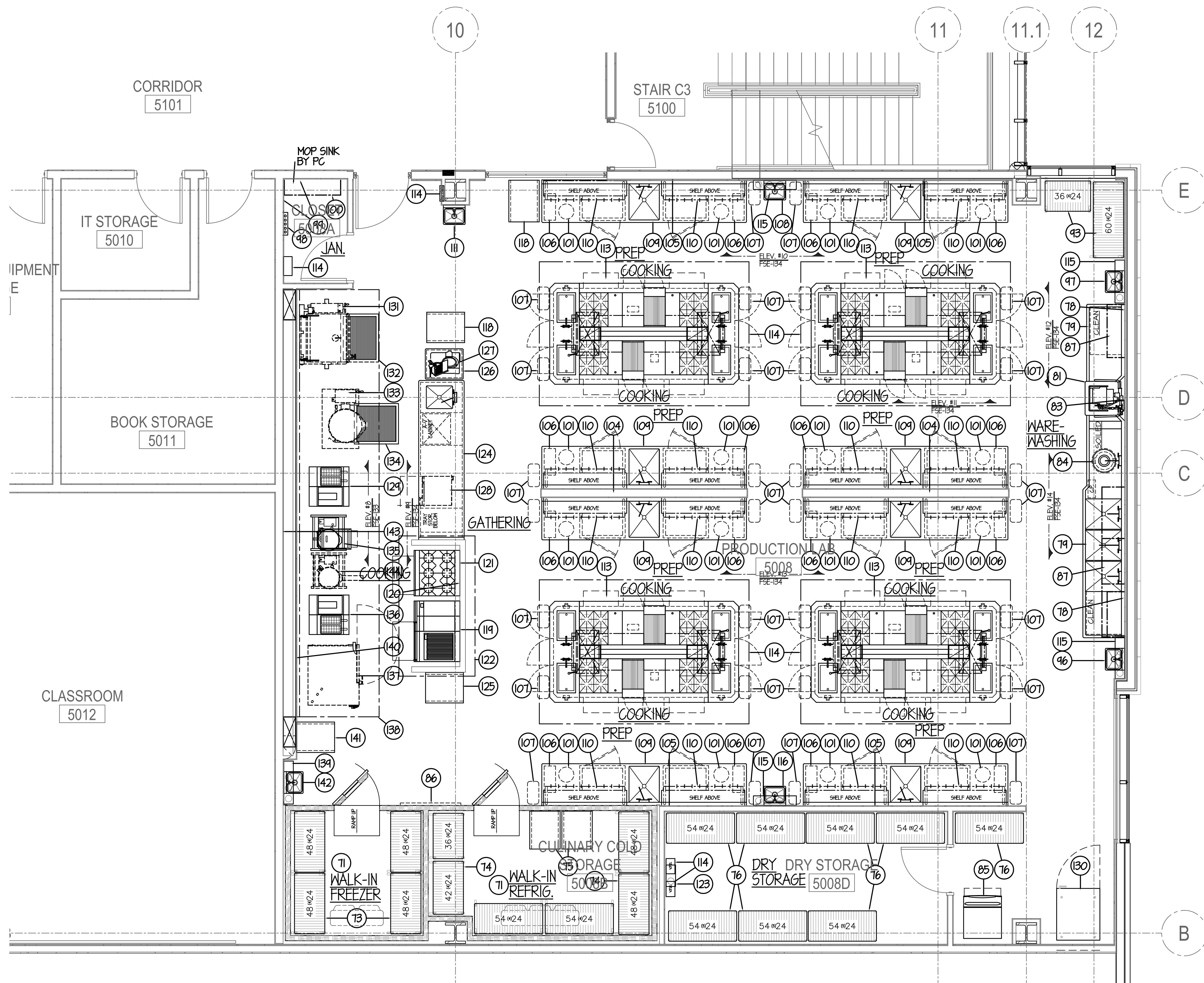
  

DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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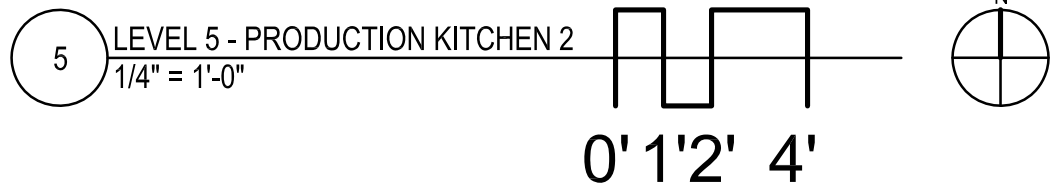
<b>PRODUCTION KITCHEN 1</b>		PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS</b>		SHEET NO.
<b>JOLIET JUNIOR COLLEGE</b>		<b>FSE-1</b>
		OF SHEETS





EQUIPMENT SCHEDULE		
ITEM	QTY	DESCRIPTION
T1	1	WALK-IN REFRIGERATOR/FREEZER
T2	-	SPARE - NOT USED
T3	1 LOT	PORTABLE WALK-IN FREEZER SHELVING
T4	1 LOT	PORTABLE WALK-IN REFRIGERATOR SHELVING
T5	2	PORTABLE PAN RACK
T6	1 LOT	DRY STORAGE SHELVING
T7	-	SPARE - NOT USED
T8	1 LOT	ST. ST. WALL PANELING
T9	1 LOT	ST. ST. DISHABLES & 3 COMPARTMENT SINK
T0	-	SPARE - NOT USED
B1	1	VENTLESS DOOR-TYPE DISHWASHER
B2	-	SPARE - NOT USED
B3	1	SOAP & RINSE DISPENSER - "NIC"
B4	1	3 H.P. DISPOSER & SPRAY ASSEMBLY
B5	1	ICE MAKER w/ BIN
B6	1	DRY ERASE BOARD - "NIC"
B7	1 LOT	WIRE WALL SHELVING
B8	-	SPARE - NOT USED
B9	-	SPARE - NOT USED
B0	-	SPARE - NOT USED
B1	-	SPARE - NOT USED
B2	-	SPARE - NOT USED
B3	1 LOT	STORAGE SHELVING
B4	-	SPARE - NOT USED
B5	-	SPARE - NOT USED
B6	1	ST. ST. HAND SINK
B7	1	ST. ST. HAND SINK
B8	1	WALL MOUNTED MOP RACK - "NIC"
B9	2	ST. ST. WALL PANELS
B0	1 LOT	WALL MOUNTED CHEMICAL STORAGE SHELVING
I01	16	STUDENT STOOL - "NIC"
I02	-	SPARE - NOT USED
I03	-	SPARE - NOT USED
I04	1 LOT	ST. ST. WALL COVERING
I05	1 LOT	30" HIGH ST. ST. WALL PANELING
I06	16	STUDENT TOOL KIT - "NIC"
I07	30	TRASH RECEPTACLE - "NIC"
I08	1	ST. ST. HAND SINK
I09	8	ST. ST. WORK COUNTER w/ REFRIG. & SINK
I10	16	UTENSIL RACK
I11	1	ST. ST. HAND SINK
I12	-	SPARE - NOT USED
I13	4	WALDORF STYLE COOKING BATTERY
I14	4	ST. ST. ISLAND EXHAUST HOOD w/ MARVEL SYSTEM
I15	4	FIRE SUPPRESSION SYSTEM
I16	1	ST. ST. HAND SINK
I17	-	SPARE - NOT USED
I18	2	PORTABLE PAN RACK
I19	1	GRIDDLE TOP/CHARBROILER w/ OVEN
I20	1	ST. ST. WALL PANELING (INSIDE) & CAP
I21	1	SIX BURNER RANGE w/ CONVECTION OVEN
I22	1	ST. ST. ISLAND EXHAUST HOOD
I23	1	FIRE SUPPRESSION SYSTEM
I24	1	ST. ST. DEMONSTRATION COUNTER w/ SINK
I25	1	PORTABLE PAN RACK
I26	1	ST. ST. PORTABLE SLICER STAND
I27	1	AUTOMATIC SLICER
I28	1	UNDERCOUNTER DISHWASHER
I29	1	FRYER SYSTEM w/ DUMP STATION
I30	1	REACH-IN BLAST CHILLER
I31	1	EXISTING 40 GAL BRAISING PAN - RELOCATE
I32	1	ST. ST. FLOOR DRAINER
I33	1	EXISTING 40 GAL ELEGT KETTLE - RELOCATE
I34	1	ST. ST. FLOOR DRAINER
I35	1	40 QT. TILTING KETTLES w/ STAND (GAS)
I36	1	FRYER SYSTEM w/ DUMP STATION
I37	1	EXISTING COMBI-OVEN - RELOCATE
I38	1	ST. ST. EXHAUST HOOD
I39	1	FIRE SUPPRESSION SYSTEM
I40	1	UTILITY DISTRIBUTION SYSTEM
I41	1	PORTABLE PAN RACK
I42	1	ST. ST. HAND SINK
I43	1 LOT	ST. ST. WALL PANELING
I44	1	EXISTING 40 QT. ELEGT KETTLE - RELOCATE
I45	-	SPARE - NOT USED
I46	-	SPARE - NOT USED
I47	-	SPARE - NOT USED
I48	-	SPARE - NOT USED
I49	-	SPARE - NOT USED
I50	-	SPARE - NOT USED

\*\* FURNISHED BY USING AGENCY - INSTALLED BY GC



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5	Issued for Construction	07/31/15

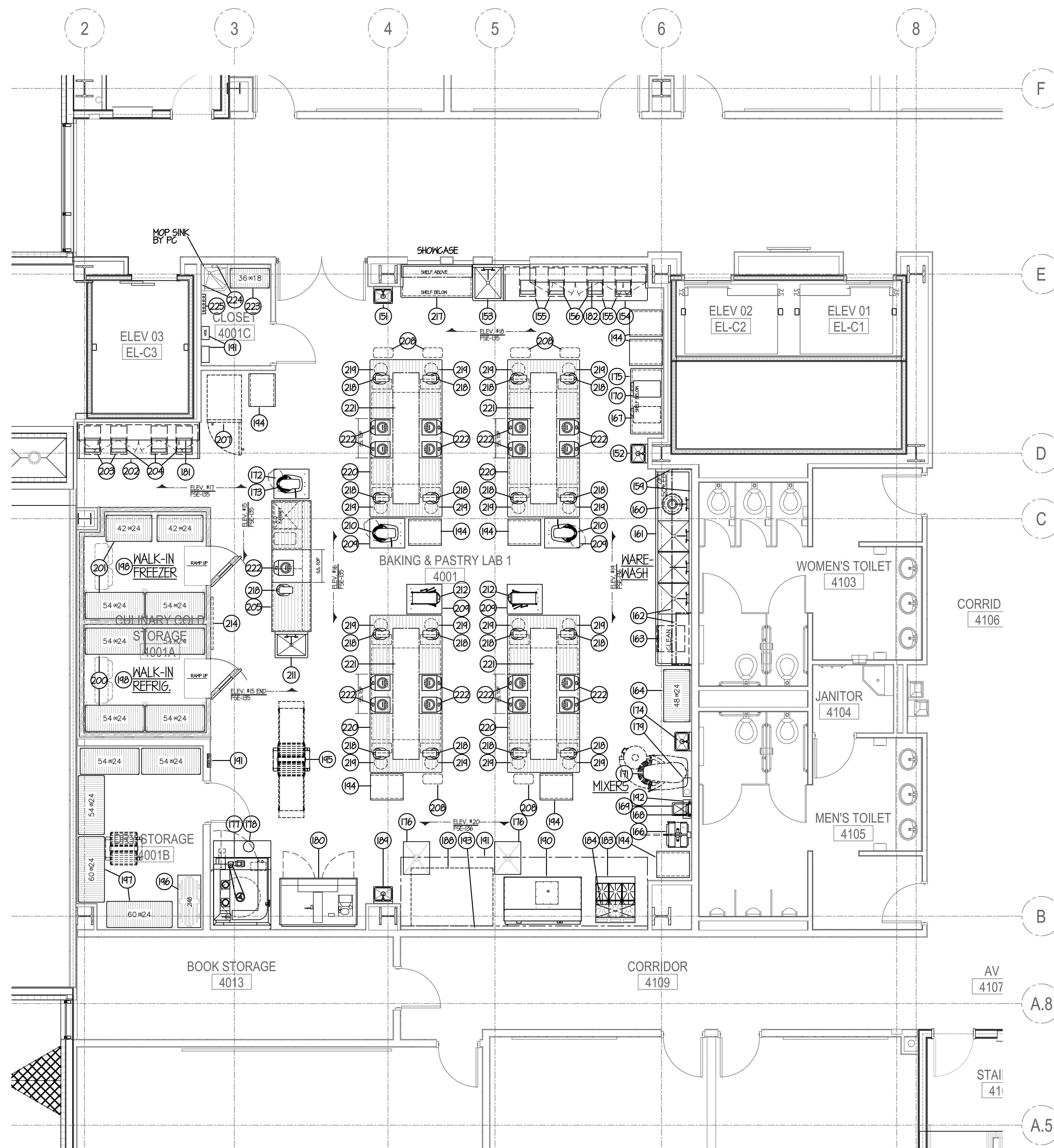
DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

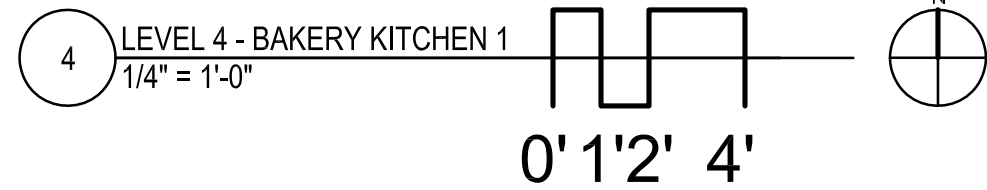
<b>PRODUCTION KITCHEN 2 ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-2</b> OF SHEETS



**EQUIPMENT SCHEDULE**

ITEM	QTY	DESCRIPTION
151	1	ST. ST. HAND SINK
152	1	ST. ST. HAND SINK
153	1	ST. ST. SINK
154	1	ST. ST. WORK TABLE
155	4	PORTABLE INGREDIENT BIN
156	4	PORTION SCALE
157	-	SPARE - NOT USED
158	-	SPARE - NOT USED
159	1 LOT	ST. ST. WALL PANELING
160	1	3 H.P. DISPOSER & SPRAY ASSEMBLY
161	1	ST. ST. THREE COMPARTMENT SINK
162	1 LOT	WIRE WALL SHELVING
163	1	UNDERCOUNTER DISHWASHER
164	1	STORAGE SHELVING
165	-	SPARE - NOT USED
166	1	DOUGH DIVIDER/ROUNDER
167	1	EXISTING ICE CREAM MAKER - RELOCATE
168	1	WATER METER
169	1	WALL MOUNTED DRAIN BASIN
170	1	ICE CREAM MAKER
171	1	EXISTING 60/80 QT. MIXER - RELOCATE
172	1	ST. ST. PORTABLE MIXER STAND
173	1	20 QT. MIXER
174	1	ST. ST. HAND SINK
175	1	ST. ST. WORK TABLE
176	2	ROLL-IN OVEN RACK
177	1	ROTARY RACK OVEN
178	1	ST. ST. EXHAUST HOOD
179	1	FIRE SUPPRESSION SYSTEM
180	1	TWO SECTION ROLL-IN PROOFER/RETARDER (TALL)
181	1	ST. ST. WALL CABINET W/ GLASS DOORS
182	1	ST. ST. WALL CABINET W/ GLASS DOORS
183	1	SIX BURNER RANGE W/ CONVECTION OVEN
184	1	BACKSHELF BROILER
185	-	SPARE - NOT USED
186	-	SPARE - NOT USED
187	-	SPARE - NOT USED
188	1	EXISTING THREE DECK OVEN - RELOCATE
189	1	ST. ST. HAND SINK
190	1	DECK OVEN
191	1	ST. ST. EXHAUST HOOD W/ MARVEL SYSTEM
192	1	FIRE SUPPRESSION SYSTEM
193	1 LOT	ST. ST. WALL PANELING
194	7	PORTABLE PAN RACK
195	1	EXISTING DOUGH SHEETER - RELOCATE
196	1	DUNNAGE RACK
197	1 LOT	DRY STORAGE SHELVING
198	1	WALK-IN REFRIGERATOR/FREEZER
199	-	SPARE - NOT USED
200	1 LOT	PORTABLE WALK-IN REFRIGERATOR SHELVING
201	1 LOT	PORTABLE WALK-IN FREEZER SHELVING
202	1	ST. ST. WORK TABLE
203	4	PORTABLE INGREDIENT BIN
204	4	PORTION SCALE
205	1 LOT	ST. ST. 4 HOOD TOP DEMO COUNTER
206	-	SPARE - NOT USED
207	1	EXISTING REACH-IN BLAST CHILLER - RELOCATE
208	6	TRASH RECEPTACLE - "NIC"
209	4	ST. ST. PORTABLE MIXER STAND
210	2	20 QT. MIXER
211	1	ST. ST. SINK
212	2	EXISTING 20 QT. MIXER - RELOCATE
213	-	SPARE - NOT USED
214	1	DRY ERASE BOARD - "NIC"
215	-	SPARE - NOT USED
216	-	SPARE - NOT USED
217	1	ST. ST. WORK TABLE
218	17	7 QT. MIXER
219	16	STUDENT STOOL - "NIC"
220	4	ST. ST. WORK COUNTER W/ HOOD TOP
221	1 LOT	CEILING MOUNTED DOUBLE OVERSHELVES
222	17	INDUCTION COOKTOP (1800 WATT)
223	1 LOT	CHEMICAL STORAGE SHELVING
224	2	ST. ST. WALL PANELS
225	1	WALL MOUNTED HOP RACK - "NIC"
226	-	SPARE - NOT USED
227	-	SPARE - NOT USED
228	-	SPARE - NOT USED
229	-	SPARE - NOT USED
230	-	SPARE - NOT USED

\*\* FURNISHED BY USING AGENCY- INSTALLED BY GC



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DRAWN	CDW	PREPARED	XXX
TRACED	XXX	APPROVED	XXX
CHECKED	XXX	APPROVED	EFW

**DKA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

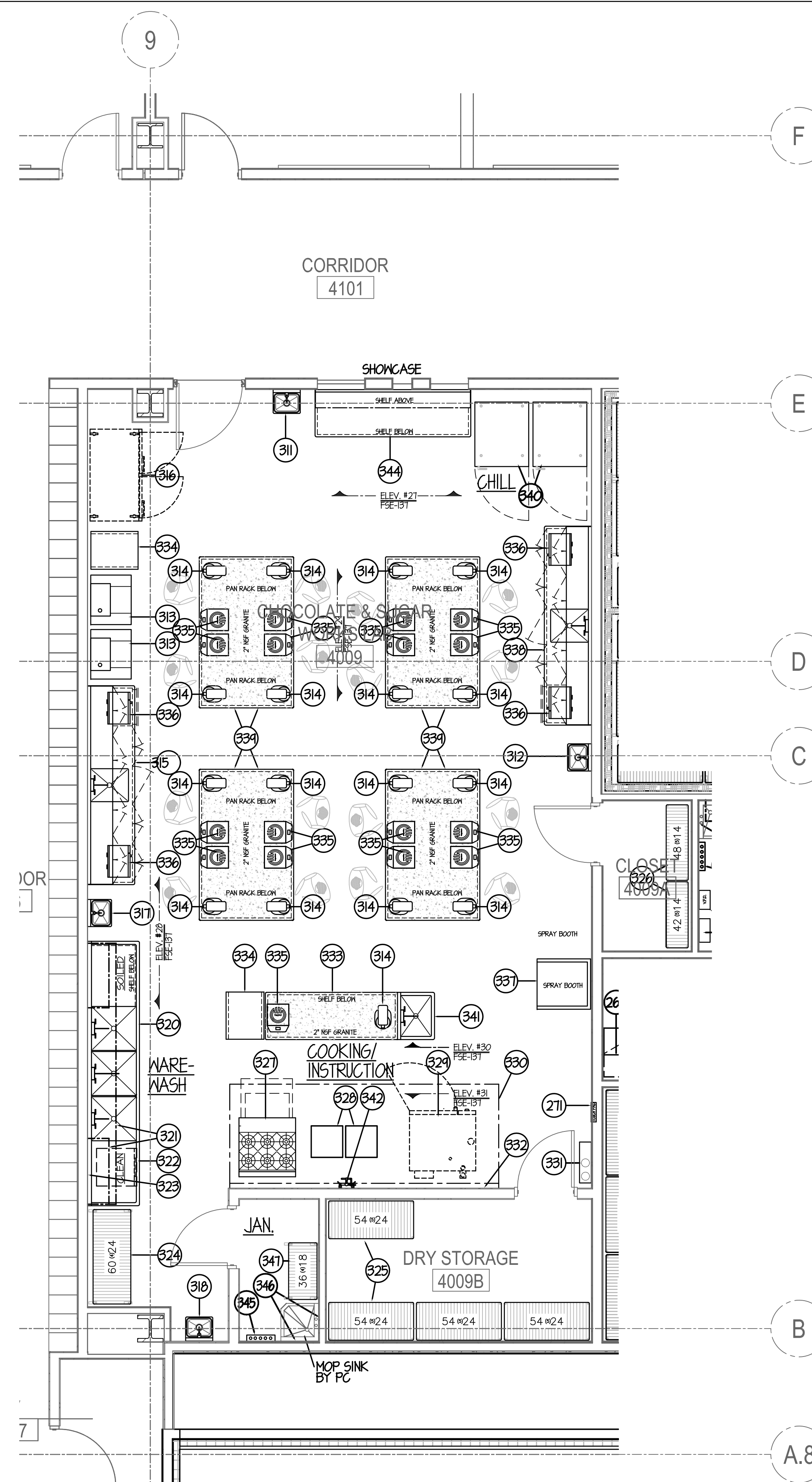
**KJW** K. J. WHITNEY ENGINEERING  
 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET BIRMINGHAM, MI 48009  
 T: 248.644.0990

<b>BAKERY KITCHEN 1</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>		DATE
		DEC. 12, 2014
<b>CITY CENTER CAMPUS</b>		SHEET NO.
<b>JOLIET JUNIOR COLLEGE</b>		<b>FSE-3</b>
		OF SHEETS

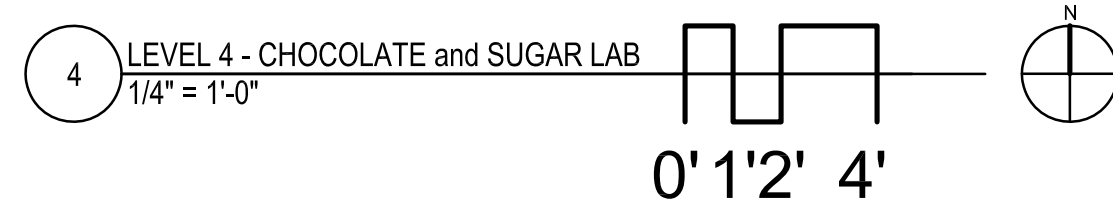






ITEM	QTY	DESCRIPTION
311	1	ST. ST. HAND SINK
312	1	ST. ST. HAND SINK
313	2	CHOCOLATE TEMPERING MACHINE
314	17	7 QT. MIXER
315	1	ST. ST. WORK COUNTER W/ SINK & WALL CABINET
316	1	EXISTING TWO SECTION FREEZER - RELOCATE
317	1	ST. ST. HAND SINK
318	1	ST. ST. HAND SINK
319	-	SPARE - NOT USED
320	1	ST. ST. THREE COMPARTMENT SINK
321	1 LOT	MIRE WALL SHELVING
322	1	UNDERCOUNTER DISHWASHER
323	1 LOT	ST. ST. WALL PANELING
324	1 LOT	STORAGE SHELVING
325	1 LOT	DRY STORAGE SHELVING
326	1 LOT	DRY STORAGE SHELVING
327	1	SIX BURNER RANGE W/ CONVECTION OVEN
328	2	CONFECTIONER'S STOVE
329	1	EXISTING DOUBLE-DECK COMBI-OVEN - RELOCATE
330	1	ST. ST. EXHAUST HOOD (MARVEL SYSTEM INCLD W/ #271)
331	1	FIRE SUPPRESSION SYSTEM
332	1 LOT	ST. ST. WALL PANELING
333	1	ST. ST. INSTRUCTOR'S TABLE W/ STONE TOP
334	2	PORTABLE PAN RACK
335	17	INDUCTION COOKTOP
336	4	MICROWAVE OVEN (1000 WATT)
337	1	ST. ST. AIR BRUSHING STATION - 1/3 HP 120 Volt
338	1	WORK COUNTER SINK & WALL CABINET
339	4	STUDENT TABLE W/ STONE TOP
340	2	REACH-IN BLAST CHILLER
341	1	ST. ST. SINK
342	1	WALL MOUNTED POT FILLER HOSE
343	-	SPARE - NOT USED
344	1	ST. ST. WORK TABLE
345	1	WALL MOUNTED MOP RACK - "NIC"
346	2	ST. ST. WALL PANELS
347	1	CHEMICAL STORAGE SHELVING
348 - 400	-	SPARE - NOT USED

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REVISIONS			DRAWN	PREPARED
NO.	DESCRIPTION	DATE	CDW	XXX
1	Issued for Construction	07/31/15	TRACED	OFF.
			XXX	XXX
			CHECKED	APPROVED
			XXX	EFW

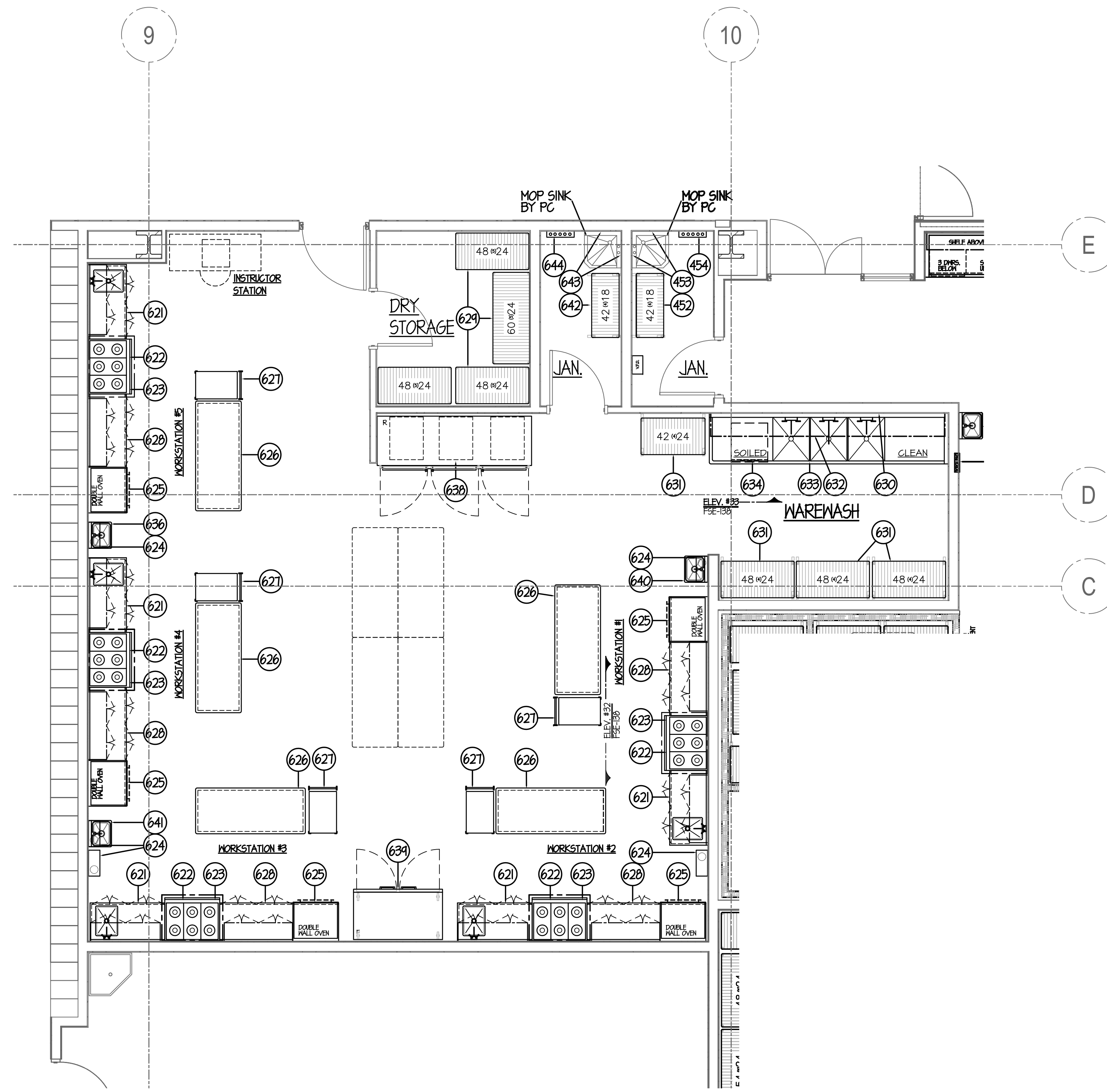
**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>CHOCOLATE and SUGAR LAB ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-5</b> OF SHEETS

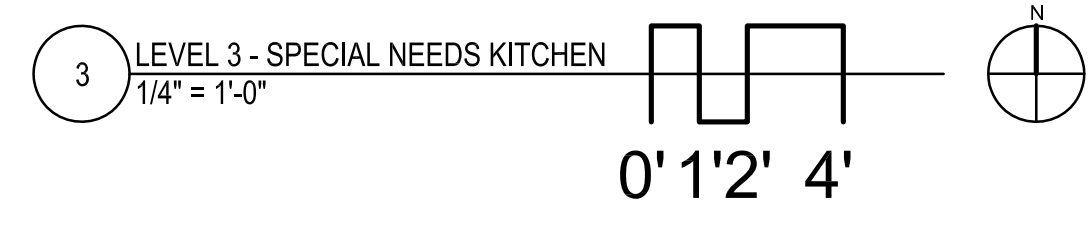




EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION
621	5	ST. ST. COUNTER w/ SINK & WALL CABINET
622	5	SIX BURNER GAS RANGE w/ OVEN
623	5	ST. ST. EXHAUST HOOD w/ MARVEL SYSTEM
624	5	FIRE SUPPRESSION SYSTEM
625	5	DOUBLE ELECTRIC WALL OVEN
626	5	ST. ST. PORTABLE WORK TABLE
627	5	PORTABLE THREE TIER CART
628	5	ST. ST. COUNTER w/ WALL CABINET
629	6	DRY STORAGE SHELVING
630	1 LOT	ST. ST. WALL PANELING
631	1 LOT	STORAGE SHELVING
632	1 LOT	WIRE WALL SHELVING
633	1	ST. ST. THREE COMPARTMENT SINK
634	1	UNDERCOUNTER DISHWASHER
635	-	SPARE - NOT USED
636	1	ST. ST. HAND SINK
637	-	SPARE - NOT USED
638	1	THREE COMPARTMENT ROLL-IN REFRIG.
639	1	TWO SECTION REACH-IN FREEZER
640	1	ST. ST. HAND SINK
641	1	ST. ST. HAND SINK
642	1	CHEMICAL STORAGE SHELVING
643	2	ST. ST. WALL PANELS
644	1	WALL MOUNTED MOP RACK - "NIC"
645 - 652	-	SPARE - NOT USED

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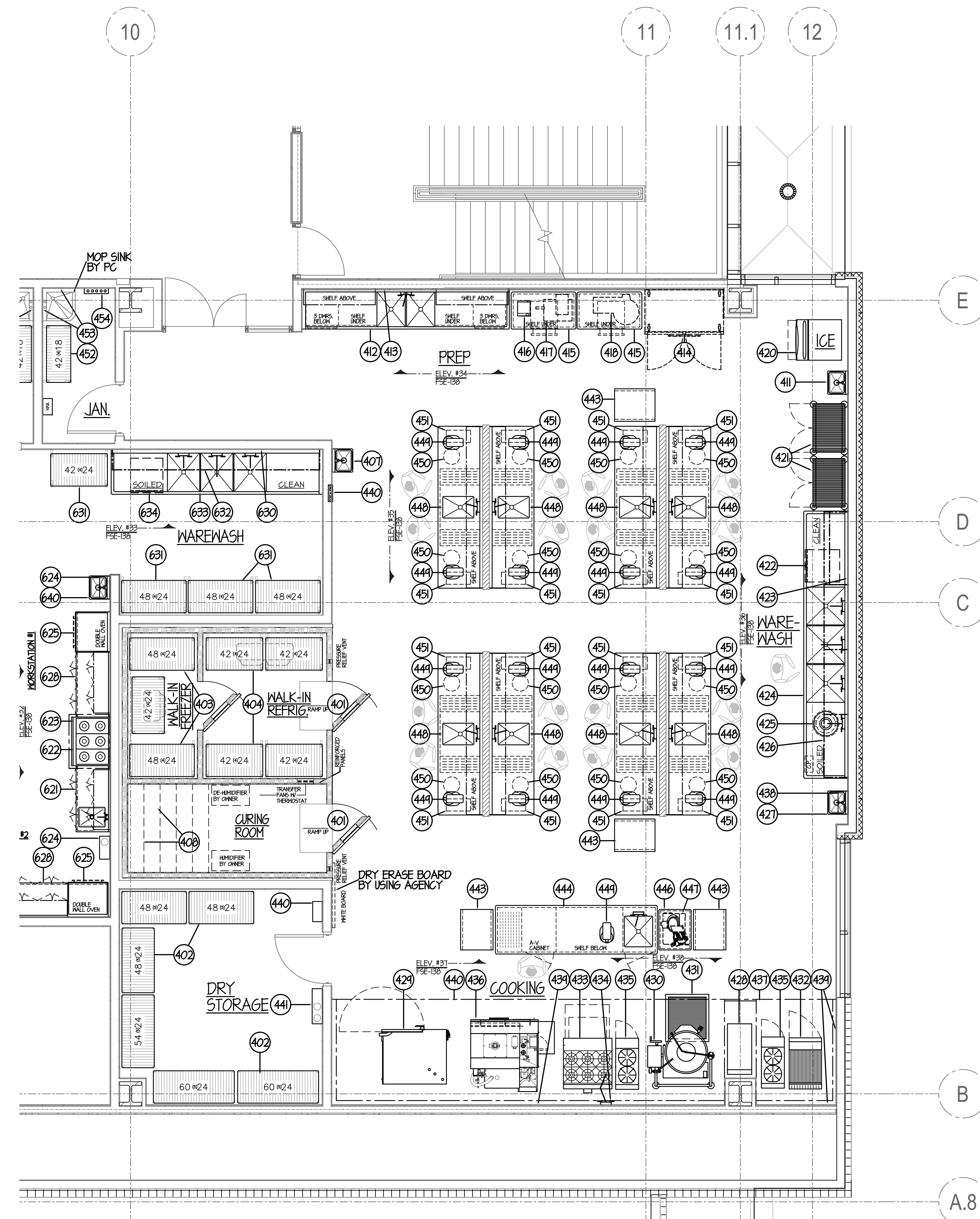
DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
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568 ANN STREET BIRMINGHAM, MI 48009  
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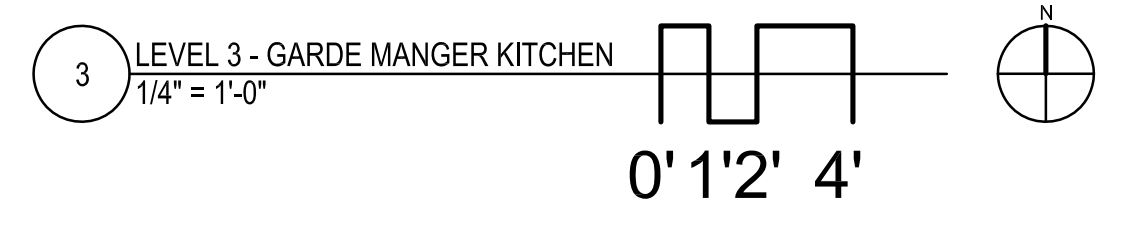
<b>SPECIAL NEEDS KITCHEN ISSUED FOR CONSTRUCTION</b>	
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>	
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>	PROJECT NO. CDB 810-048-023
	DATE DEC. 12, 2014
	SHEET NO. <b>FSE-6</b>
	OF SHEETS



**EQUIPMENT SCHEDULE**

ITEM	QTY	DESCRIPTION	
401	1 LOT	WALK-IN REFRIGERATOR/FREEZER/CURING COMPARTMENT	**
402	1 LOT	DRY STORAGE SHELVING	**
403	1 LOT	PORTABLE WALK-IN FREEZER SHELVING	**
404	1 LOT	PORTABLE WALK-IN REFRIGERATOR SHELVING	**
405	-	SPARE - NOT USED	
406	-	SPARE - NOT USED	
407	1	ST. ST. HAND SINK	
408	1 LOT	ST. ST. HORIZONTAL DRYING BARS	
409	-	SPARE - NOT USED	
410	-	SPARE - NOT USED	
411	1	ST. ST. HAND SINK	
412	1	ST. ST. TWO COMPARTMENT SINK	
413	1 LOT	ST. ST. WALL PANELING	
414	1	EXISTING 2 SECT REACH-IN REFRIGERATOR - RELOCATE	
415	2	PORTABLE ST. ST. WORK TABLE	
416	1	PORTION SCALE - "NIC"	
417	1	SAUSAGE STUFFER - "NIC"	
418	1	EXISTING BUFFALO CHOPPER - RELOCATE	
419	-	SPARE - NOT USED	
420	1	ICE MAKER w/ BIN	**
421	1 LOT	SECURED STORAGE SHELVING	**
422	1	UNDERCOUNTER DISHWASHER	**
423	1 LOT	ST. ST. WALL PANELING	
424	1	ST. ST. THREE COMPARTMENT SINK	
425	1	3 H.P. DISPOSER & SPRAY ASSEMBLY	
426	1 LOT	WIRE WALL SHELVING	
427	1	ST. ST. HAND SINK	
428	1	SPREADER CABINET	
429	1	COMBI-OVEN w/ STAND	
430	1	60 GALLON TILTING KETTLE	
431	1	ST. ST. FLOOR DRAINER	**
432	1	CHARBROILER w/ CABINET BASE	**
433	1	SIX BURNER RANGE w/ CONVECTION OVEN	**
434	1	WALL MOUNTED POT FILLER	**
435	2	TWO BURNER RANGE	**
436	1	SMOKER	**
437	1	ST. ST. EXHAUST HOOD w/ MARVEL SYSTEM	**
438	1	FIRE SUPPRESSION SYSTEM	**
439	1 LOT	ST. ST. WALL PANELING	**
440	1	ST. ST. EXHAUST HOOD	**
441	1	FIRE SUPPRESSION SYSTEM	**
442	-	SPARE - NOT USED	
443	4	PORTABLE PAN RACK	**
444	1	ST. ST. INSTRUCTOR TABLE w/ SINK	**
445	-	SPARE - NOT USED	
446	1	ST. ST. PORTABLE SLICER TABLE	**
447	1	EXISTING SLICER - RELOCATE	**
448	8	ST. ST. STUDENT TABLE w/ SINK	**
449	17	1 QT. MIXERS	**
450	16	STUDENT STOOLS - "NIC"	**
451	16	STUDENT TOOL KITS - "NIC"	**
452	1	CHEMICAL STORAGE SHELVING	**
453	2	ST. ST. WALL PANELS	**
454	1	WALL MOUNTED MOP RACK - "NIC"	**
455	-	SPARE - NOT USED	
456	-	SPARE - NOT USED	
457	-	SPARE - NOT USED	
458	-	SPARE - NOT USED	
459	-	SPARE - NOT USED	
460	-	SPARE - NOT USED	

\*\* FURNISHED BY USING AGENCY - INSTALLED BY GC



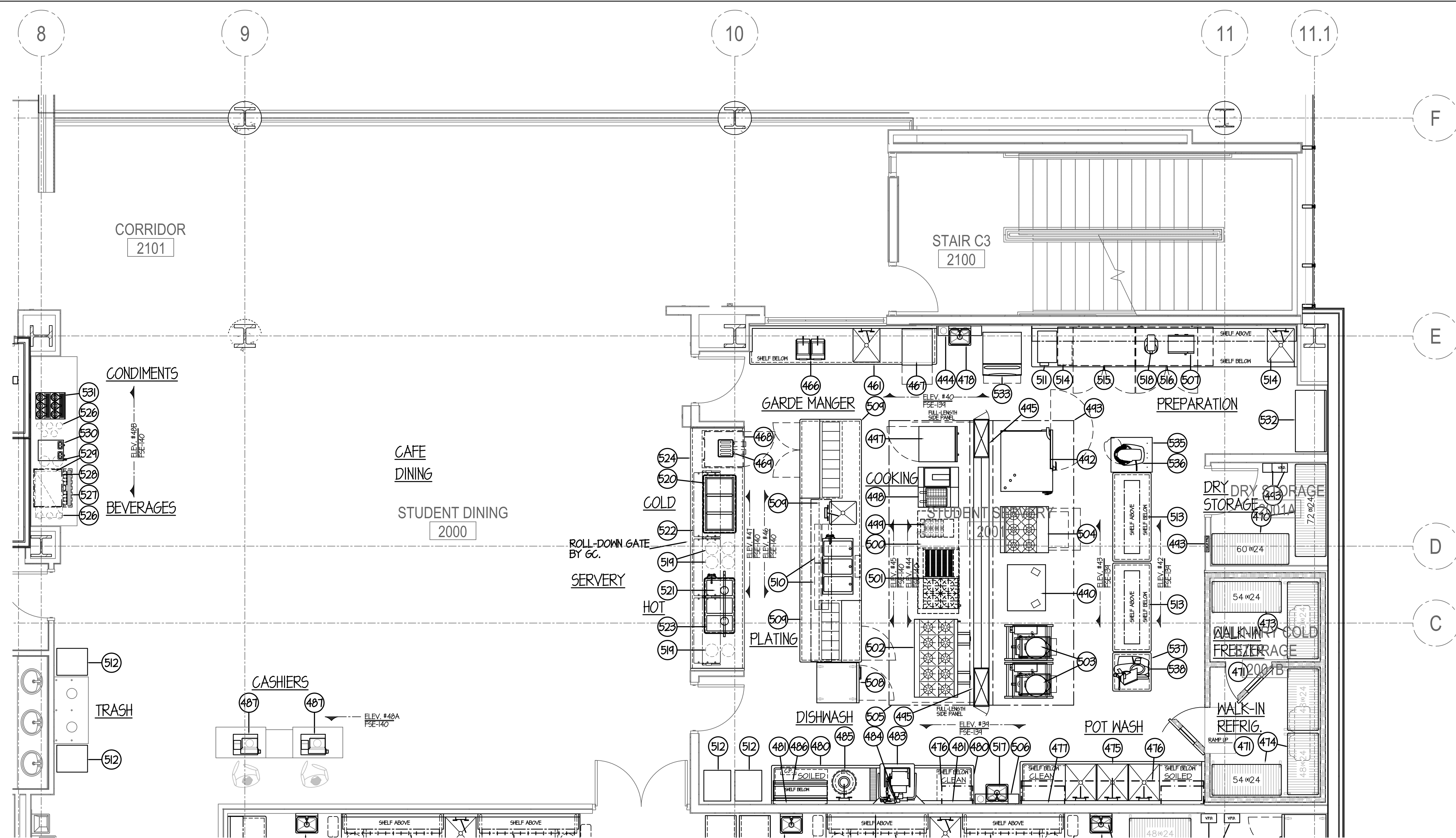
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<p><b>CDW</b> DRAWN</p> <p><b>XXX</b> PREPARED</p> <p><b>XXX</b> TRACED</p> <p><b>XXX</b> CHECKED</p>	<p><b>XXX</b> OFF.</p> <p><b>XXX</b> APPROVED</p> <p><b>XXX</b> APPROVED</p> <p><b>EFW</b> APPROVED</p>	<p><b>DKA</b> DEMONICA KEMPER ARCHITECTS</p> <p>125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000</p>	<p><b>K J W W</b> K.J.W. ENGINEERING</p> <p>1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320</p>	<p><b>EFW</b> E.F. WHITNEY, INC.</p> <p>568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990</p>
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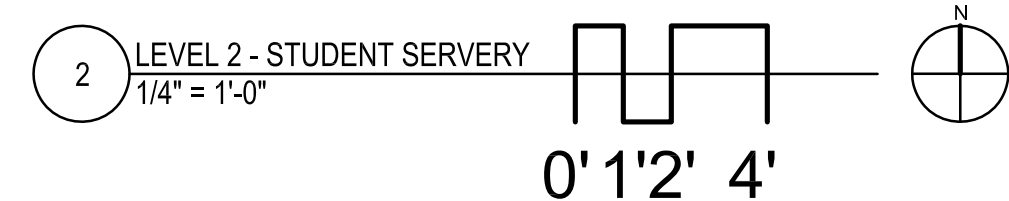
<b>GARDE MANGER KITCHEN</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-7</b>		OF SHEETS





ITEM	QTY	DESCRIPTION
461	1	ST. ST. WORK TABLE w/ SINK
462	-	SPARE - NOT USED
463	-	SPARE - NOT USED
464	-	SPARE - NOT USED
465	-	SPARE - NOT USED
466	1	PANINI GRILL
467	1	TURBO-CHIEF OVEN
468	1	SINGLE SECTION UNDERCOUNTER REFRIGERATOR
469	1	POP-UP TOASTER
470	1 LOT	DRY STORAGE SHELVING
471	1	WALK-IN REFRIGERATOR/FREEZER
472	-	SPARE - NOT USED
473	1 LOT	PORTABLE WALK-IN FREEZER SHELVING
474	1 LOT	PORTABLE WALK-IN REFRIGERATOR SHELVING
475	1	ST. ST. THREE COMPARTMENT SINK
476	1 LOT	WIRE WALL SHELVING
477	1 LOT	ST. ST. WALL PANELING
478	1	ST. ST. HAND SINK
479	-	SPARE - NOT USED
480	1 LOT	ST. ST. SOILED & CLEAN DISHTABLES
481	1 LOT	ST. ST. WALL PANELING
482	-	SPARE - NOT USED
483	1	VENTLESS DOOR-TYPE DISHWASHER
484	1	SOAP & RINSE DISPENSER - "NIC"
485	1	3 HP. DISPOSER & SPRAY ASSEMBLY
486	1	WALL MOUNTED RACKING SHELF
487	2	CASH REGISTER/POS STATIONS - "NIC"
488	-	SPARE - NOT USED
489	-	SPARE - NOT USED
490	1	VERTICAL ROTISSERIE OVEN
491	-	SPARE - NOT USED
492	1	COMBI-OVEN w/ STAND
493	1	ST. ST. EXHAUST HOOD
494	1	FIRE SUPPRESSION SYSTEM
495	1	UTILITY DISTRIBUTION SYSTEM
496	-	SPARE - NOT USED
497	1	WORKTOP FREEZER BASE
498	1	FRYER & DUMP
499	1	EXISTING COUNTER TOP FRYER - RELOCATE
500	1	EXISTING REFRIGERATED EQUIP. STAND - RELOCATE
501	1	EXISTING CHARBROILER & RANGE - RELOCATE
502	1	TEN BURNER RANGE w/ CONVECTION OVEN
503	2	48 QT GALLON TILT KETTLES w/ STAND
504	1	SIX BURNER RANGE w/ OVEN
505	1	ST. ST. EXHAUST HOOD
506	1	FIRE SUPPRESSION SYSTEM
507	1	MICROWAVE OVEN
508	1	SINGLE SECTION REACH-IN REFRIGERATOR
509	1	ST. ST. CHEF'S COUNTER w/ HOT WELLS & SINK
510	4	HEAT LAMP
511	1	ICE CREAM MAKER
512	1 LOT	TRAY RETURN CARTS
513	2	ST. ST. WORK TABLE w/ OVERSHELF
514	1	ST. ST. WORK TABLE w/ SINK & OVERSHELF
515	1	TWO SECTION UNDERCOUNTER REFRIGERATOR
516	1	TWO SECTION UNDERCOUNTER FREEZER
517	1	ST. ST. HAND SINK
518	1	7 QT. MIXER
519	1 LOT	PLATES & BOWLS - "NIC"
520	1	COLD FOOD PAN
521	1	TRACK STYLE HANGING HEAT LAMPS (3)
522	1	PROTECTO w/ LIGHTS
523	1	HOT FOOD WELLS
524	1	SERVING COUNTER
525	-	SPARE - NOT USED
526	1 LOT	CUPS & LIDS - "NIC"
527	1	ICE & SODA DISPENSER - "NIC"
528	1	TOP MOUNTED ICE MAKER
529	1	BAG-IN-BOX SODA SYSTEM - "NIC"
530	1	AIRPOT COFFEE MAKER - "NIC"
531	1 LOT	AIRPOT DISPLAY RACK & AIRPOTS - "NIC"
532	1	ST. ST. WORK TABLE
533	1	ICE MAKER w/ BIN
534	-	SPARE - NOT USED
535	1	ST. ST. PORTABLE MIXER STAND
536	1	20 QT. MIXER
537	1	ST. ST. PORTABLE SLICER STAND
538	1	AUTOMATIC SLICER
539	-	SPARE - NOT USED
540	-	SPARE - NOT USED

\*\* FURNISHED BY USING AGENCY- INSTALLED BY GC



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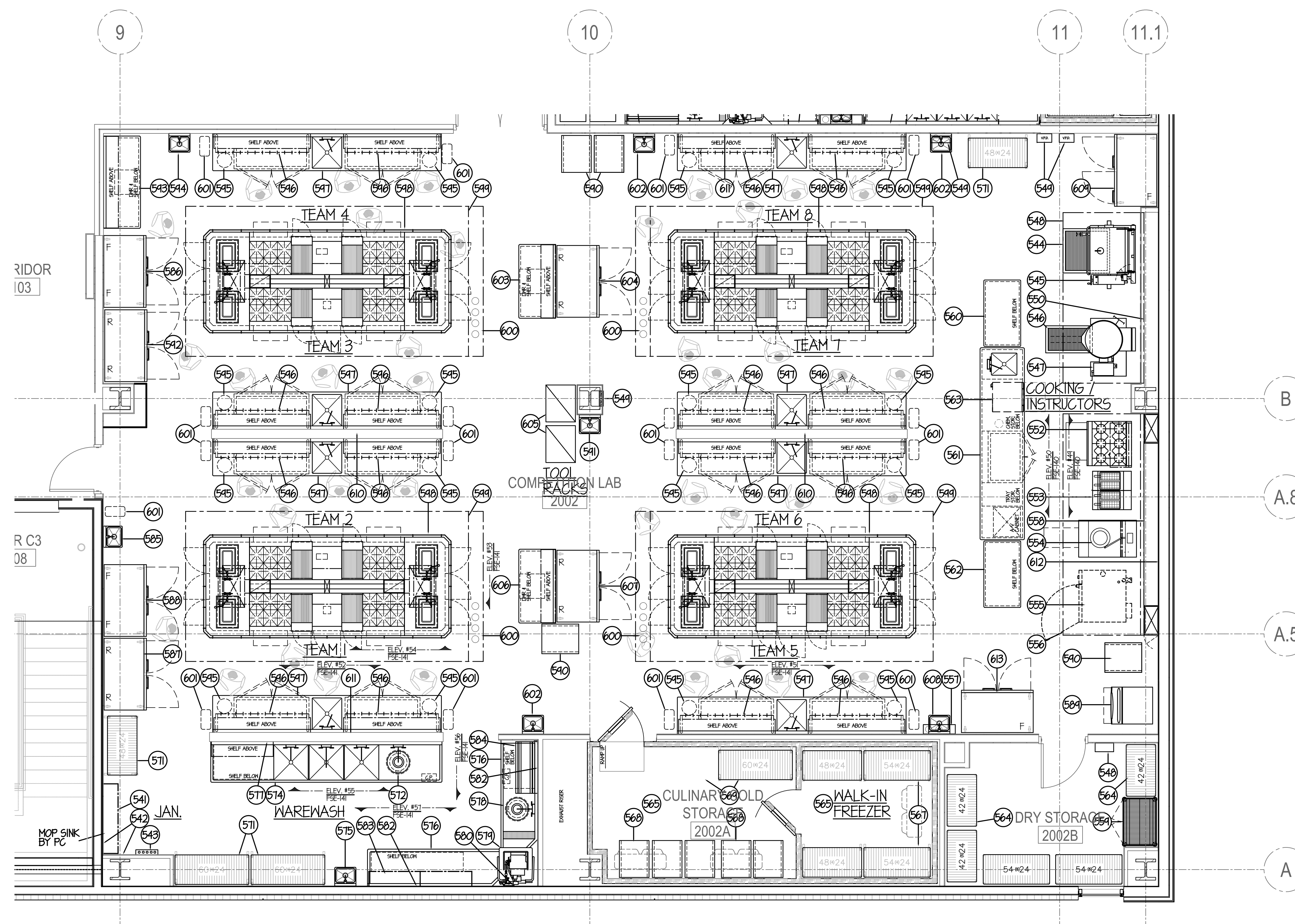
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	CDW	PREPARED	XXX
CHECKED	XXX	APPROVED	XXX
APPROVED	EFW	DATE	

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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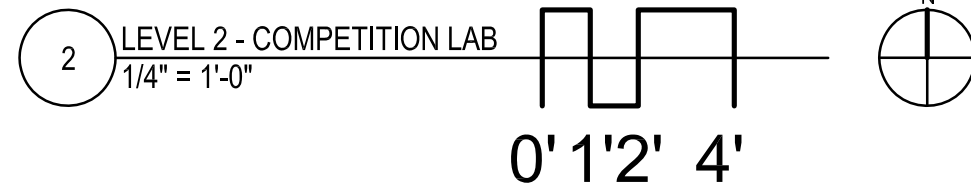
<b>STUDENT SERVERY</b>		PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS</b>		SHEET NO.
<b>JOLIET JUNIOR COLLEGE</b>		<b>FSE-8</b>
		OF SHEETS



**EQUIPMENT SCHEDULE**

ITEM	QTY	DESCRIPTION
541	1 LOT	CHEMICAL STORAGE SHELVING
542	4	ST. ST. WALL PANELS
543	2	WALL MOUNTED MOP RACK - "NIC"
544	1	ST. ST. FLOOR DRAINER
545	1	TILTING BRAISING PAN
546	1	ST. ST. FLOOR DRAINER
547	1	60 GALLON TILTING KETTLE
548	1	ST. ST. EXHAUST HOOD
549	1	FIRE SUPPRESSION SYSTEM
550	1 LOT	ST. ST. WALL PANELING
551	-	SPARE - NOT USED
552	1	SIX BURNER RANGE W/ CONVECTION OVEN
553	1	FRYER SYSTEM
554	1	WOK RANGE
555	1	EXISTING DOUBLE-DECK COMBI-OVEN - RELOCATE
556	1	ST. ST. EXHAUST HOOD
557	1	FIRE SUPPRESSION SYSTEM
558	1	UTILITY DISTRIBUTION SYSTEM
559	1 LOT	SECURED STORAGE SHELVING
560	1	ST. ST. PORTABLE WORK TABLE
561	1	ST. ST. DEMONSTRATION COUNTER W/ SINK & REFRIG. BASE
562	1	ST. ST. PORTABLE WORK TABLE
563	1	UNDERCOUNTER DISHWASHER
564	1 LOT	DRY STORAGE SHELVING
565	1	WALK-IN REFRIGERATOR/FREEZER
566	-	SPARE - NOT USED
567	1 LOT	PORTABLE WALK-IN FREEZER SHELVING
568	7	PORTABLE PAN RACK
569	1 LOT	PORTABLE WALK-IN REFRIGERATOR SHELVING
570	-	SPARE - NOT USED
571	1 LOT	STORAGE SHELVING
572	1	3 HP. DISPOSER & SPRAY ASSEMBLY
573	-	SPARE - NOT USED
574	1 LOT	ST. ST. THREE COMPARTMENT SINK
575	1	ST. ST. HAND SINK
576	1 LOT	ST. ST. SOILED & CLEAN DISHTABLES
577	1 LOT	ST. ST. WALL PANELING
578	1	3 HP. DISPOSER & SPRAY ASSEMBLY
579	1	VENTLESS DOOR-TYPE DISHWASHER
580	1	SOAP & RINSE DISPENSER - "NIC"
581	-	SPARE - NOT USED
582	1 LOT	ST. ST. WALL PANELING
583	1 LOT	WIRE WALL SHELVING
584	1	WALL MOUNTED RACKING SHELF
585	1	ST. ST. HAND SINK
586	1	TWO SECTION REACH-IN FREEZER
587	1	TWO SECTION REACH-IN REFRIGERATOR
588	1	TWO SECTION REACH-IN FREEZER
589	1	ICE MAKER W/ BIN
590	4	PORTABLE PAN RACK
591	1	ST. ST. HAND SINK
592	1	TWO SECTION REACH-IN REFRIGERATOR
593	1	ST. ST. WORK TABLE
594	1	ST. ST. HAND SINK
595	16	STUDENT STOOL - "NIC"
596	16	UTENSIL RACKS
597	8	ST. ST. WORK COUNTER W/ REFRIG. BASE & SINK
598	4	WALDORF STYLE COOKING BATTERY
599	4	ST. ST. ISLAND STYLE EXHAUST HOOD
600	4	FIRE SUPPRESSION SYSTEM
601	17	TRASH RECEPTACLE - "NIC"
602	3	ST. ST. HAND SINK
603	1	ST. ST. WORK TABLE
604	1	TWO SECTION REACH-IN REFRIGERATOR
605	1 LOT	PORTABLE TOOL RACK
606	1	ST. ST. WORK TABLE
607	1	TWO SECTION REACH-IN REFRIGERATOR
608	1	ST. ST. HAND SINK
609	1	TWO SECTION REACH-IN FREEZER
610	2	ST. ST. WALL COVERING & CAP
611	1 LOT	30" HIGH ST. ST. WALL PANELING
612	1 LOT	ST. ST. WALL COVERING
613	1	TWO SECTION REACH-IN FREEZER
614	-	SPARE - NOT USED
615	-	SPARE - NOT USED
616	-	SPARE - NOT USED
617	-	SPARE - NOT USED
618	-	SPARE - NOT USED
619	-	SPARE - NOT USED
620	-	SPARE - NOT USED

\*\* FURNISHED BY USING AGENCY - INSTALLED BY GC



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

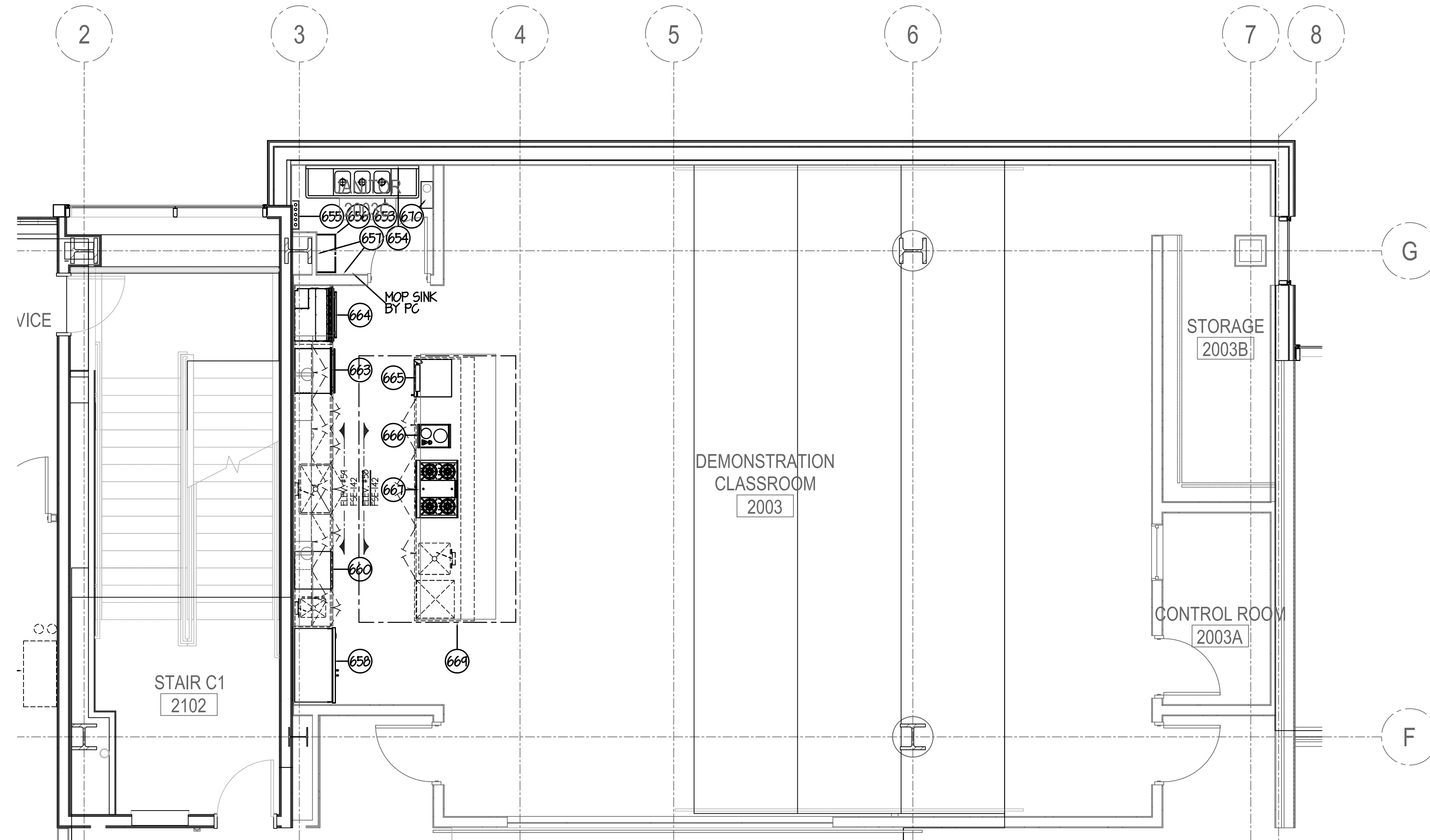
**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K. J. WILSON ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>COMPETITION LAB</b> <b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-9</b> OF SHEETS





ITEM	QTY	DESCRIPTION
653	1	ST. ST. THREE COMPARTMENT SINK
654	1 LOT	ST. ST. WALL PANELING
655	1	WALL MOUNTED MOP RACK - "NIC"
656	1 LOT	WALL MOUNTED CHEMICAL STORAGE SHELVING
657	2	ST. ST. WALL PANELS
658	1	2 SECTION REFRIG./FREEZER
659	-	SPARE - NOT USED
660	1	EXISTING UNDERCOUNTER DISHWASHER - RELOCATE
661	-	SPARE - NOT USED
662	-	SPARE - NOT USED
663	1	HEATED DRAWER
664	1	SINGLE WALL OVEN
665	1	UNDERCOUNTER SINGLE DOOR WINE COOLER
666	1	BUILT-IN INDUCTION COOKTOP
667	1	36" BUILT-IN RANGE TOP (GAS)
668	-	SPARE - NOT USED
669	1	VENTILATED CEILING ASSEMBLY
670	1	FIRE SUPPRESSION SYSTEM

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REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

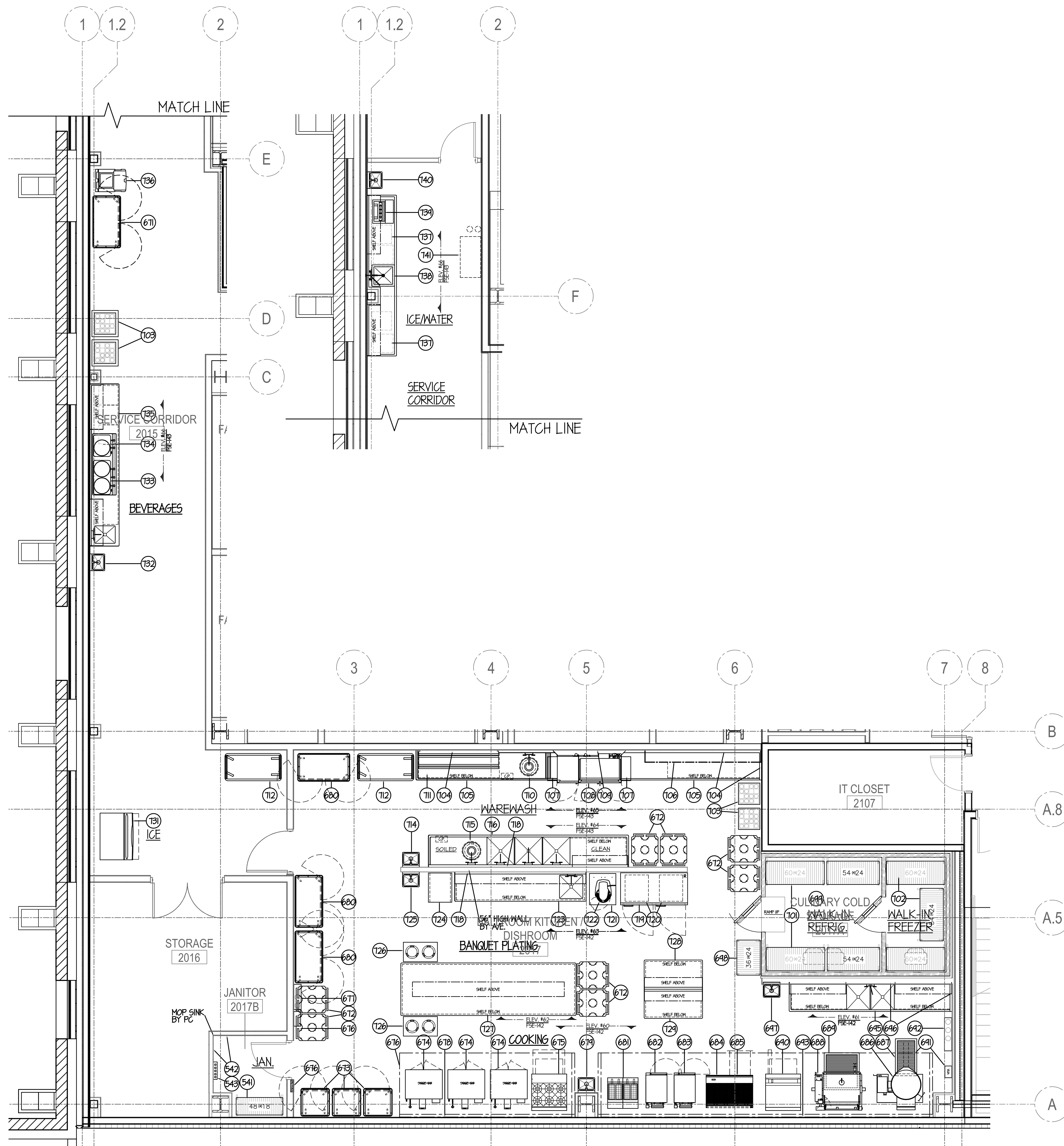
**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**K J W W** K.J.W. ENGINEERING  
 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET BIRMINGHAM, MI 48009  
 T: 248.644.0990

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

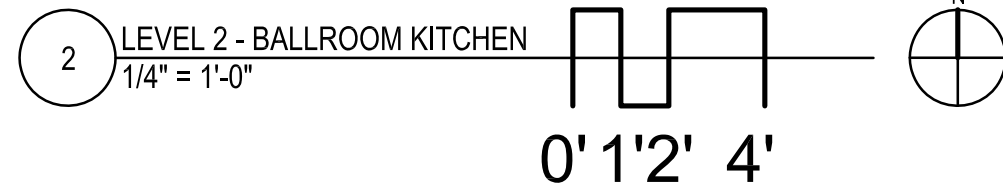
<b>DEMONSTRATION KITCHEN ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-10</b> OF SHEETS



**EQUIPMENT SCHEDULE**

ITEM	QTY	DESCRIPTION	
671	1	PORTABLE HEATED BANQUET SERVICE CART	**
672	1 LOT	PORTABLE DISH DOLLY - "NIC"	**
673	3	PORTABLE HEATED CART	**
674	3	DOUBLE-DECK CONVECTION OVEN	**
675	1	SIX BURNER RANGE w/ CONVECTION OVEN	**
676	1	ST. ST. EXHAUST HOOD	**
677	1	FIRE SUPPRESSION SYSTEM	**
678	1 LOT	ST. ST. WALL PANELING	**
679	1	ST. ST. HAND SINK	**
680	3	EXISTING HEATED BANQUET CARTS - RELOCATE	**
681	1	FRYER SYSTEM	**
682	1	STEAMER	**
683	1	STEAMER	**
684	1	CHARBROILER	**
685	1	REFRIGERATED EQUIPMENT STAND	**
686	1	60 GALLON TILTING KETTLE	**
687	1	ST. ST. FLOOR DRAINER	**
688	1	TILTING BRAISING PAN	**
689	1	ST. ST. FLOOR DRAINER	**
690	1	GRIDDLE TOP RANGE w/ OVEN	**
691	1	ST. ST. EXHAUST HOOD	**
692	1	FIRE SUPPRESSION SYSTEM	**
693	1 LOT	ST. ST. WALL PANELING	**
694	-	SPARE - NOT USED	**
695	1	ST. ST. TWO COMPARTMENT SINK	**
696	1 LOT	ST. ST. WALL PANELING	**
697	1	ST. ST. HAND SINK	**
698	1 LOT	STORAGE SHELVING	**
699	1	WALK-IN REFRIGERATOR/FREEZER	**
700	-	SPARE - NOT USED	**
701	1 LOT	PORTABLE WALK-IN REFRIGERATOR SHELVING	**
702	1 LOT	PORTABLE WALK-IN FREEZER SHELVING	**
703	1 LOT	CUP & GLASS RACK - "NIC"	**
704	1 LOT	ST. ST. WALL PANELING	**
705	1 LOT	ST. ST. SOILED & CLEAN DISHTABLES	**
706	1 LOT	WIRE WALL SHELVING	**
707	2	ST. ST. EXHAUST DUCTS	**
708	1	CONVEYOR DISHWASHER	**
709	1	SOAP & RINSE DISPENSER - "NIC"	**
710	1	3 HP. DISPOSER & SPRAY ASSEMBLY	**
711	1	WALL MOUNTED RACKING SHELF	**
712	2	QUEEN MARY CART	**
713	-	SPARE - NOT USED	**
714	1	ST. ST. HAND SINK	**
715	1	3 HP. DISPOSER & SPRAY ASSEMBLY	**
716	1	ST. ST. THREE COMPARTMENT SINK	**
717	-	SPARE - NOT USED	**
718	1 LOT	ST. ST. WALL PANELING & CAP	**
719	1	TWO SECTION ROLL-IN REFRIGERATOR	**
720	2	ROLL-IN RACKS	**
721	1	ST. ST. PORTABLE MIXER STAND	**
722	1	20 QT. MIXER	**
723	1	ST. ST. WORK TABLE w/ SINK	**
724	1	PORTABLE PAN RACK	**
725	1	ST. ST. HAND SINK	**
726	1 LOT	PORTABLE DISH DISPENSERS	**
727	1	ST. ST. PLATING TABLE w/ OVERSHELF	**
728	1	ST. ST. WORK TABLE	**
729	1	ST. ST. WORK TABLE	**
730	-	SPARE - NOT USED	**
731	1	ICE MAKER w/ BIN	**
732	1	ST. ST. HAND SINK	**
733	1	TWIN COFFEE URN - "NIC"	**
734	1	SINGLE COFFEE URN - "NIC"	**
735	1	ST. ST. WORK COUNTER w/ SINK	**
736	1	PORTABLE ICE CART	**
737	1 LOT	CUP & GLASS RACK - "NIC"	**
738	1	ST. ST. WORK COUNTER w/ GLASS FILLER & SINK	**
739	1	DROP-IN SODA DISPENSER/BIN - "NIC"	**
740	1	ST. ST. HAND SINK	**
741	1 LOT	BAG & BOX SODA SYSTEM - "NIC"	**
742	-	SPARE - NOT USED	**
743	-	SPARE - NOT USED	**
744	-	SPARE - NOT USED	**
745	-	SPARE - NOT USED	**
746	-	SPARE - NOT USED	**
747	-	SPARE - NOT USED	**
748	-	SPARE - NOT USED	**
749	-	SPARE - NOT USED	**
750	-	SPARE - NOT USED	**

\*\* FURNISHED BY USING AGENCY - INSTALLED BY GC



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REVISIONS			DRAWN	PREPARED
NO.	DESCRIPTION	DATE	CDW	XXX
1	Issued for Construction	07/31/15	TRACED	APPROVED
			XXX	XXX
			CHECKED	APPROVED
			XXX	EFW

**dk** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**K J W W** K.J.W. ENGINEERING  
 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET BIRMINGHAM, MI 48009  
 T: 248.644.0990

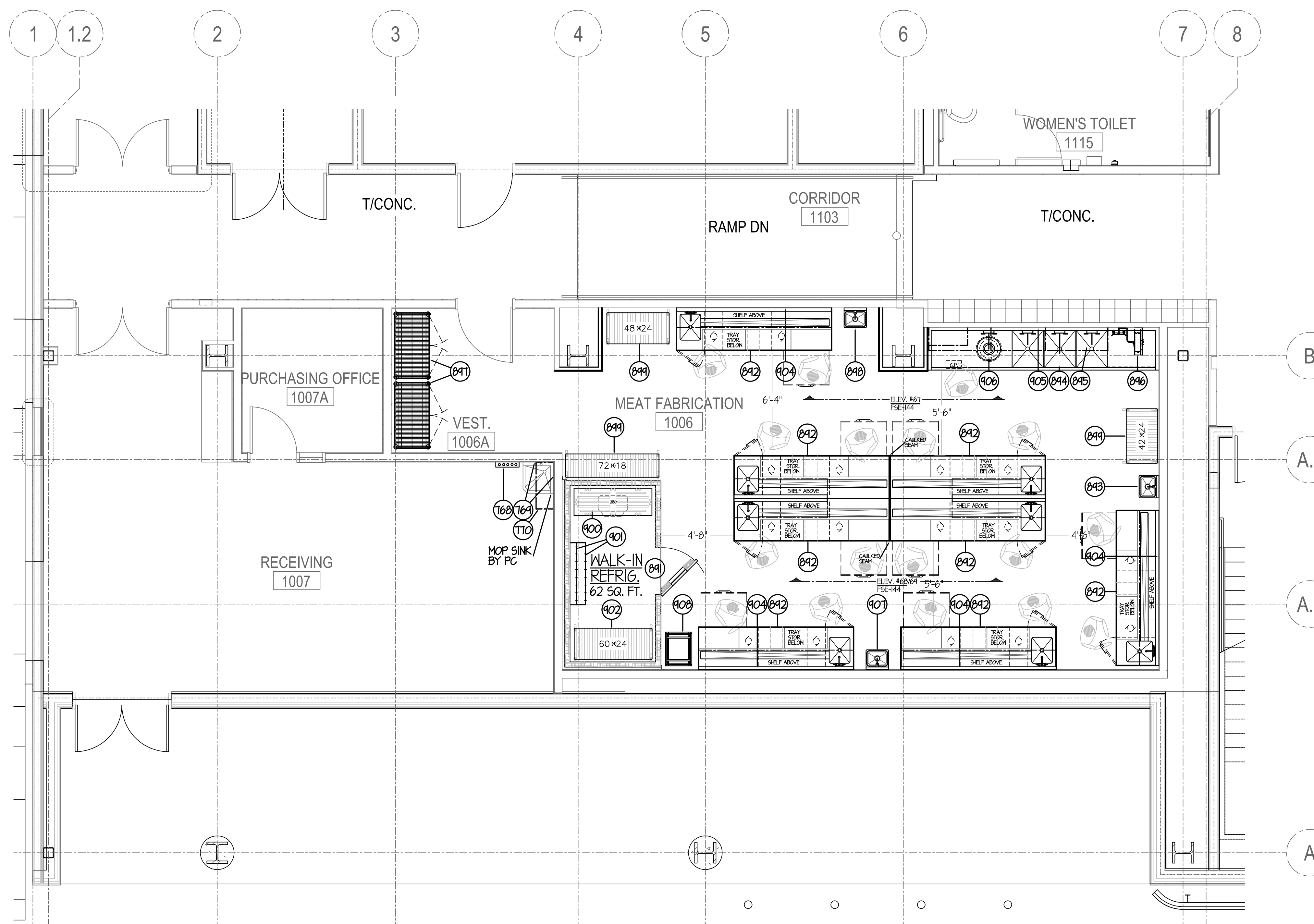
**BALLROOM KITCHEN**  
**ISSUED FOR CONSTRUCTION**

**FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
 DATE DEC. 12, 2014  
 SHEET NO. **FSE-11**  
 OF SHEETS

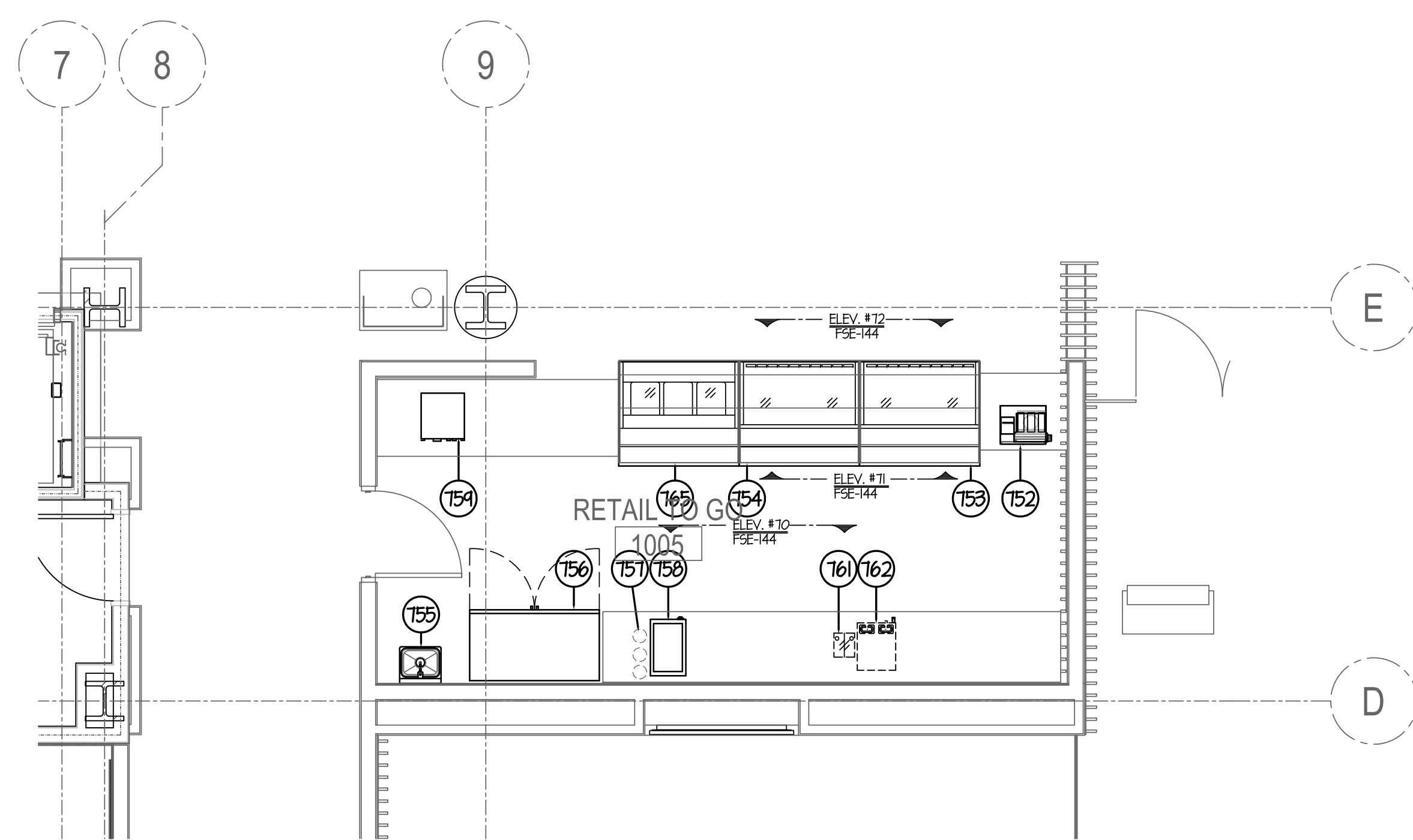




EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION
161	-	SPARE - NOT USED
168	1	WALL MOUNTED HOP RACK - "NIC"
164	2	ST. ST. WALL PANELS
110	1 LOT	CHEMICAL STORAGE SHELVING
041	1	WALK-IN MEAT REFRIGERATOR
042	0	REFRIGERATED WORK TOP TABLES
043	1	ST. ST. HAND SINK
044	1	ST. ST. THREE COMPARTMENT SINK
045	1 LOT	WIRE WALL SHELVING
046	1	HOSE REEL ASSEMBLY - INSTD BY PC
047	2	SECURED STORAGE SHELVING
048	1	ST. ST. HAND SINK
049	3	WIRE STORAGE SHELVING
900	1	DUNNAGE RACK
901	1	WALL MOUNTED HANGING RACK
902	1 LOT	PORTABLE WALK-IN REFRIGERATOR SHELVING
903	-	SPARE - NOT USED
904	1 LOT	ST. ST. WALL PANELING
905	1 LOT	ST. ST. WALL PANELING
906	1	3 H.P. DISPOSER & SPRAY ASSEMBLY
907	1	ST. ST. HAND SINK
908	1	PORTABLE PAN RACK
909	-	OMIT - NOT USED
910	-	SPARE - NOT USED

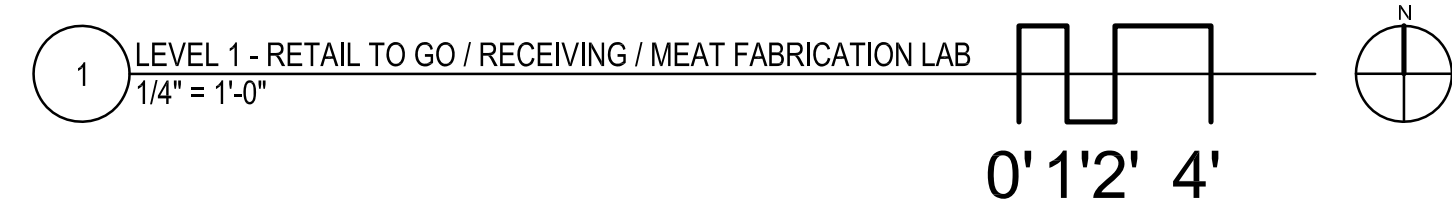
\*\* FURNISHED BY USING AGENCY - INSTALLED BY GC



EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION
151	-	SPARE - NOT USED
152	1 LOT	POS SYSTEMS - "NIC"
153	1	REFRIGERATED DISPLAY CASE
154	1	NON-REFRIGERATED DISPLAY CASE
155	1	ST. ST. HAND SINK
156	1	TWO SECTION DISPLAY REFRIGERATOR
157	1 LOT	CUPS & LIDS - "NIC"
158	1	COUNTER TOP SOUP WELL
159	1	HEATED DISPLAY CASE
160	-	SPARE - NOT USED
161	1	COFFEE GRINDER - "NIC"
162	1	COFFEE MAKER - "NIC"
163	-	SPARE - NOT USED
164	-	SPARE - NOT USED
165	1	HOT DISPLAY CASE
166	-	SPARE - NOT USED

\*\* FURNISHED BY USING AGENCY - INSTALLED BY GC



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED	APPROVED
<b>XXX</b>	<b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W** K. J. W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

RETAIL TO GO / RECEIVING / MEAT FABRICATION LAB

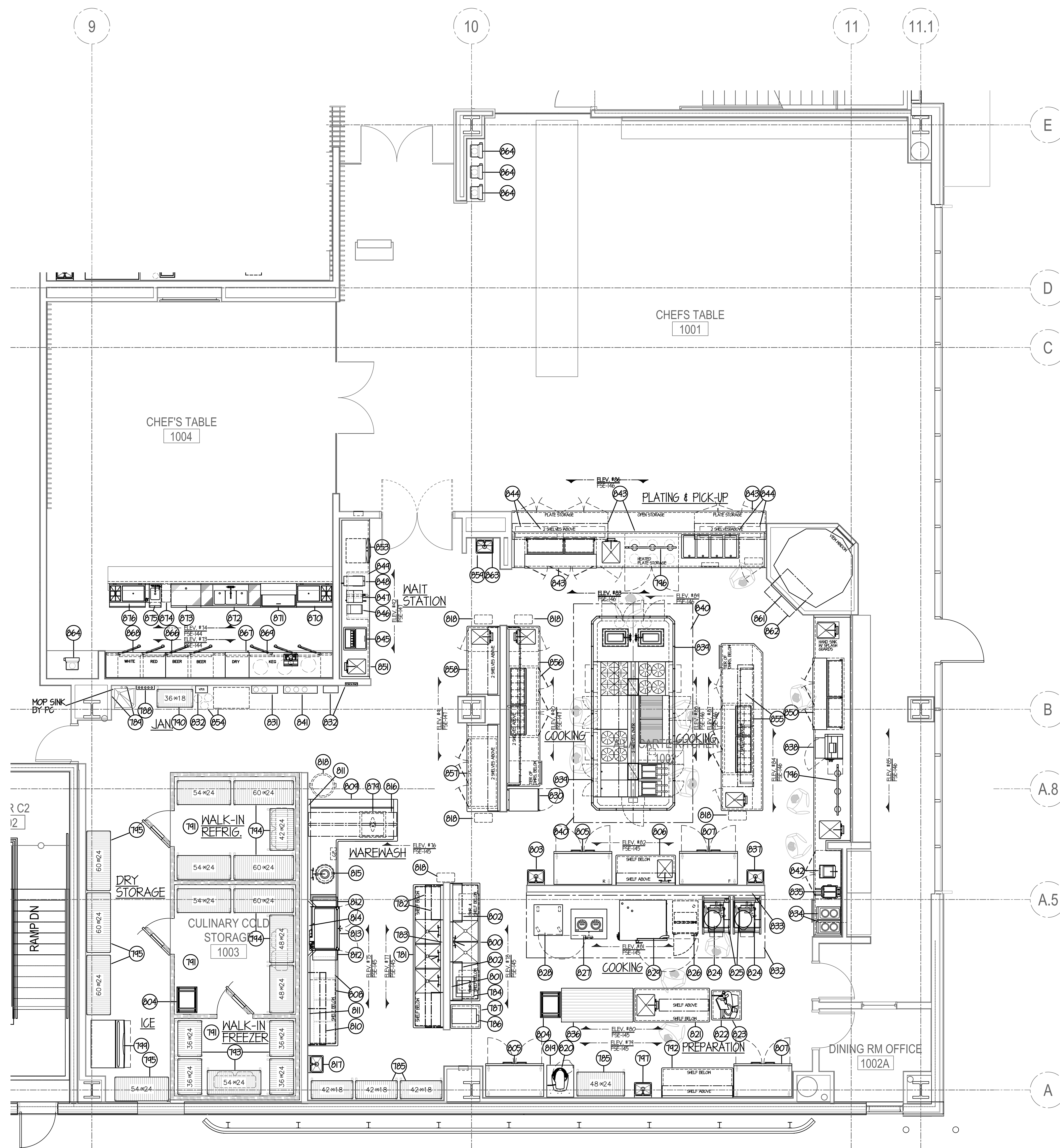
ISSUED FOR CONSTRUCTION  
FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE

CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE

PROJECT NO.  
CDB 810-048-023

DATE  
DEC. 12, 2014

SHEET NO.  
**FSE-12**  
OF SHEETS



**EQUIPMENT SCHEDULE**

ITEM	QTY	DESCRIPTION
181	1	ST. ST. THREE COMPARTMENT SINK
182	1	WIRE WALL SHELVING
183	1	ST. ST. WALL PANELING
184	1	EXISTING VACUUM SEALER - RELOCATE
185	1	STORAGE SHELVING
186	1	ICE CREAM MAKER
187	1	ST. ST. PORTABLE WORK TABLE
188	1	WALL MOUNTED MOP RACK - "NIC"
189	2	ST. ST. WALL PANELING
190	1	CHEMICAL STORAGE SHELVING
191	1	WALK-IN REFRIGERATOR/FREEZER
192	1	ST. ST. WORK TABLE
193	1	PORTABLE WALK-IN REFRIGERATOR SHELVING
194	1	PORTABLE WALK-IN FREEZER SHELVING
195	1	DRY STORAGE SHELVING
196	1	HANGING HEAT LAMPS & TRACK
197	1	ST. ST. HAND SINK
198	-	SPACE - NOT USED
199	1	ICE MAKER W/ BIN
200	1	ST. ST. TWO COMPARTMENT SINK
201	1	ST. ST. WALL PANELING
202	1	WIRE WALL SHELVING
203	1	ST. ST. HAND SINK
204	1	PORTABLE PAN RACK
205	2	TWO SECTION REACH-IN REFRIGERATOR
206	1	ST. ST. WORK TABLE W/ SINK
207	2	TWO SECTION REACH-IN FREEZER
208	1	CUP & GLASS RACKS - "NIC"
209	1	ST. ST. DISHWASHER
210	1	WIRE WALL SHELVING
211	1	ST. ST. WALL PANELING
212	2	ST. ST. EXHAUST DUCTS
213	1	CONVEYOR DISHWASHER
214	1	SOAP & RINSE DISPENSER - "NIC"
215	1	3 HP. DISPOSER & SPRAY ASSEMBLY
216	1	OVERHEAD RACKING SHELF
217	1	ST. ST. HAND SINK
218	5	TRASH RECEPTACLE - "NIC"
219	1	ST. ST. PORTABLE MIXER STAND
220	1	20 QT. MIXER
221	1	ST. ST. WORK TABLE W/ SINK
222	1	AUTOMATIC SLICER
223	1	ST. ST. PORTABLE SLICER TABLE
224	2	40 QT. TILTING KETTLE
225	2	TILT KETTLE STAND
226	1	EXISTING SPOONER - RELOCATE
227	1	DROP-IN INDUCTION TOP (5.0 KW) W/ CABINET BASE
228	1	PORTABLE PROOFING CABINET
229	1	COMBIOVEN W/ STAND
230	1	PORTABLE HEATED CABINET
231	1	FIRE SUPPRESSION SYSTEM
232	1	ST. ST. EXHAUST HOOD
233	1	ST. ST. WALL PANELING
234	2	TWO BURNER INDUCTION RANGETOPS
235	1	FRIURE COUNTER ELECT. FRYER - "NIC"
236	1	WOOD TOP WORK TABLE
237	1	ST. ST. HAND SINK
238	1	CONVEYOR PIZZA DOUGH ROLLER
239	1	WALDORF STYLE COOKING BATTERY
240	1	ST. ST. ISLAND EXHAUST HOOD
241	1	FIRE SUPPRESSION SYSTEM
242	1	PANINI GRILL
243	1	ST. ST. CHEF'S COUNTER W/ HOT HELLS & SINK
244	8	HEAT LAMPS
245	1	ICE & SODA DISPENSER - "NIC"
246	1	COFFEE GRINDER - "NIC"
247	1	COFFEE MAKER - "NIC"
248	1	ICED TEA MAKER - "NIC"
249	1	CUP & GLASS RACKS - "NIC"
250	1	ST. ST. CHEF'S COUNTER
251	1	ST. ST. BEVERAGE COUNTER
252	-	SPACE - NOT USED
253	-	HEATED DRAWERS
254	1	BAG-N-BOX SODA SYSTEM - "NIC"
255	1	ST. ST. WORK COUNTER W/ SINK & REFRIGERATED BASE
256	1	ST. ST. WORK COUNTER W/ SINK & REFRIGERATED BASE
257	1	ST. ST. WORK COUNTER W/ REFRIGERATED BASE
258	1	ST. ST. WORK COUNTER W/ SINK
259	1	ST. ST. HAND SINK
260	-	SPACE - NOT USED
261	1	GAS FIRED OPEN HEARTH OVEN
262	1	ST. ST. EXHAUST HOOD
263	1	FIRE SUPPRESSION SYSTEM
264	1	POS SYSTEMS - "NIC"
265	-	SPACE - NOT USED
266	1	BACKBAR REFRIGERATOR (BEER/BEER)
267	1	BACKBAR DRY STORAGE CABINET
268	1	BACKBAR REFRIGERATOR (RED/WHITE WINE)
269	1	BACKBAR REFRIGERATOR (RED/WHITE WINE)
270	1	UNDERBAR ICE BIN SECTION
271	1	UNDERBAR MUG CHILLER
272	1	UNDERBAR THREE COMPARTMENT SINK
273	1	UNDERBAR DRAINBOARD SECTION
274	1	TRASH RECEPTACLE - "NIC"
275	1	UNDERBAR HAND SINK SECTION
276	1	UNDERBAR ICE BIN SECTION W/ SODA GUN
277	-	SPACE - NOT USED
278	-	SPACE - NOT USED
279	1	PORTABLE ST. ST. SOAK SINK
280	THRU 280	SPACE - NOT USED

\*\* FURNISHED BY USING AGENCY - INSTALLED BY GC



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

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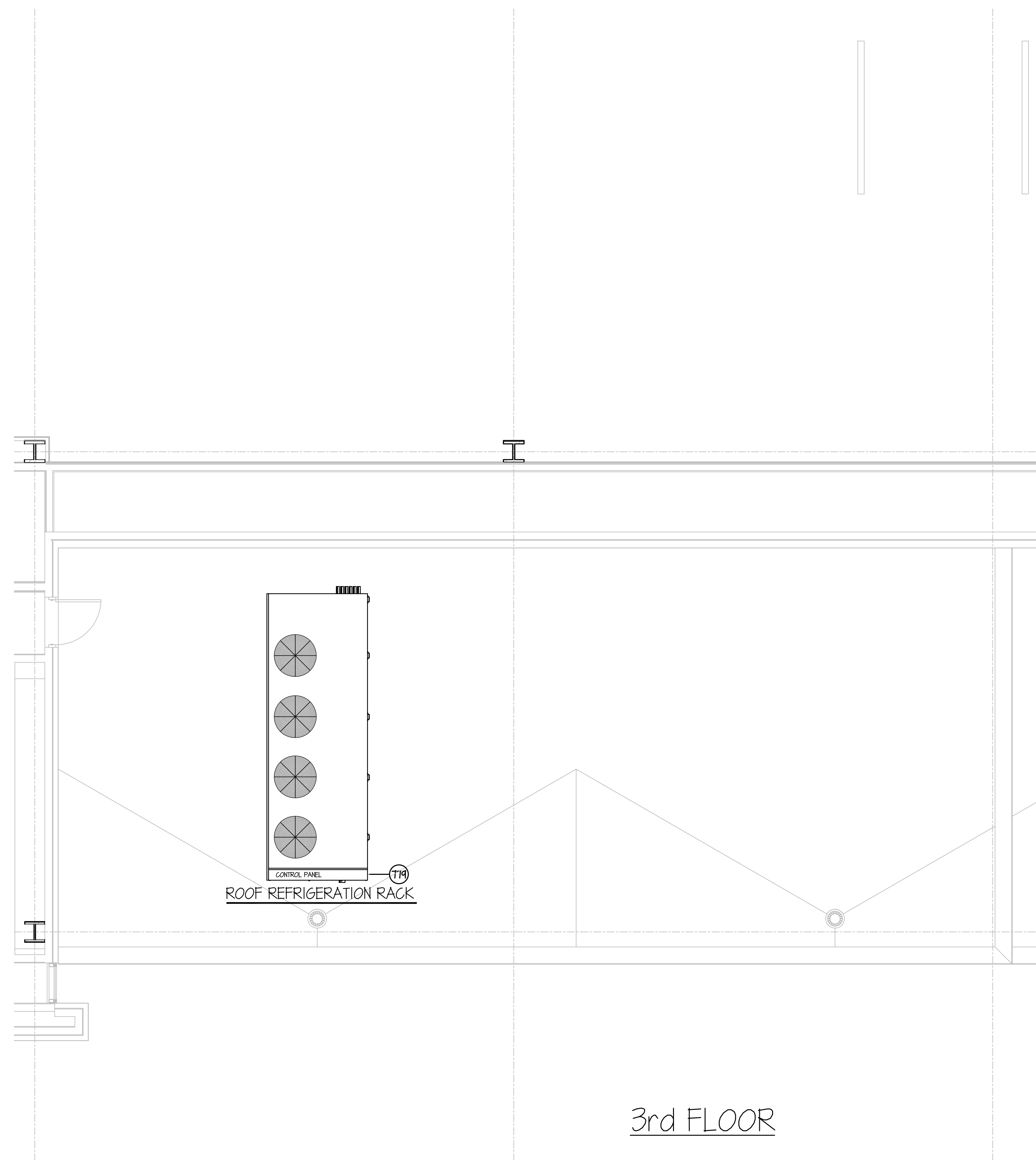
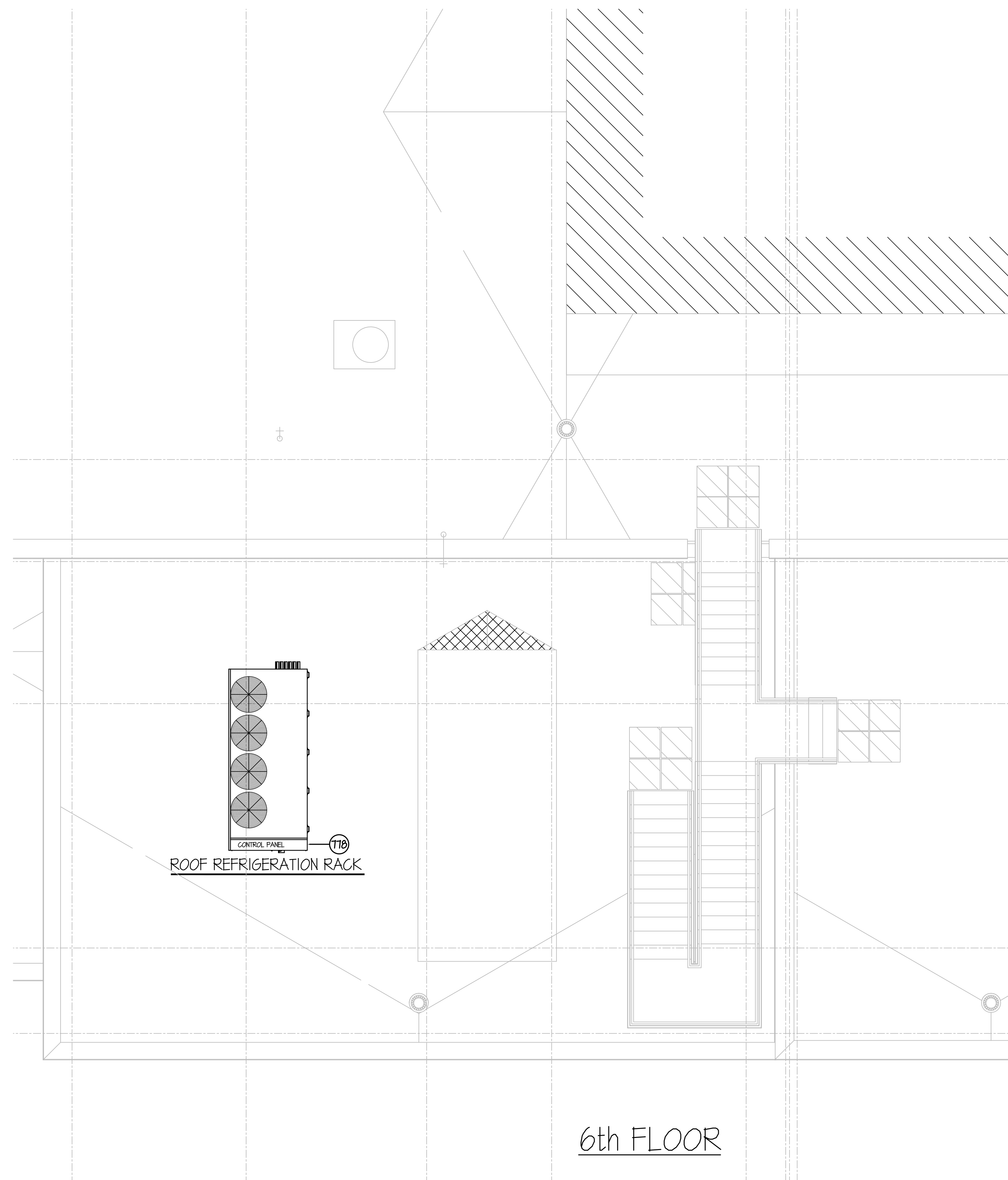
  

DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

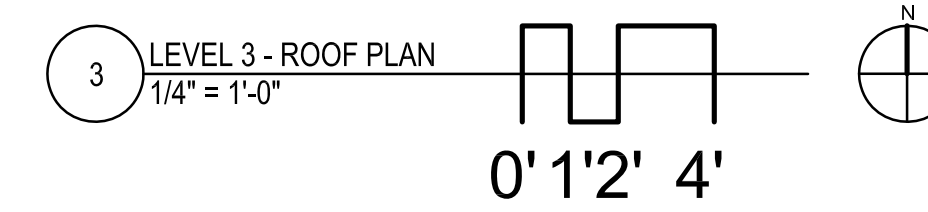
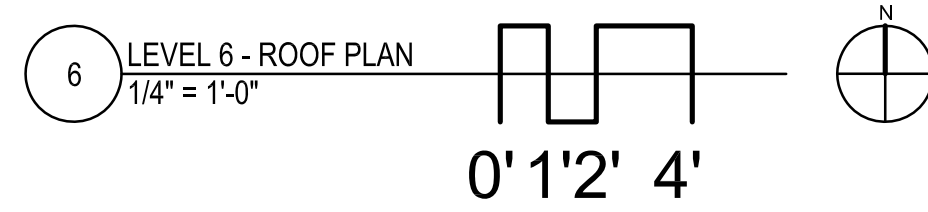
<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>A LA CARTE RESTAURANT</b>	
<b>ISSUED FOR CONSTRUCTION</b>	
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>	
PROJECT NO. CDB 810-048-023	DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS</b>	
<b>JOLIET JUNIOR COLLEGE</b>	
<b>FSE-13</b>	
OF SHEETS	





EQUIPMENT SCHEDULE		
ITEM	QTY	DESCRIPTION
T7B	1	REMOTE REFRIGERATION SYSTEMS - RACK "A" (FOR FLOOR 5 / 4)
T7A	1	REMOTE REFRIGERATION SYSTEMS - RACK "B" (FOR FLOOR 3 / 2 / 1)



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED	CHECKED	APPROVED
GYB	XXX	XXX	XXX
TRACED	APPROVED	APPROVED	APPROVED
XXX	XXX	XXX	EFW

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJ** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
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T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>ROOF PLAN</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - LAYOUT and SCHEDULE</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-15</b>		
OF SHEETS		

**GENERAL NOTES FOR ROUGH-IN PLAN**

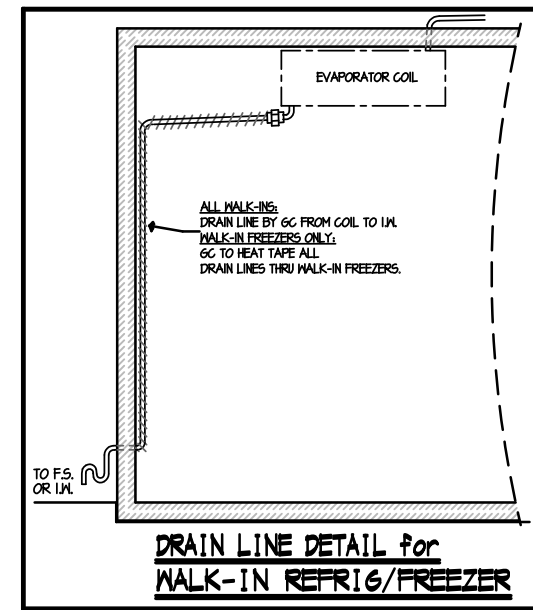
THIS PLAN IS TO BE USED FOR BIDDING PURPOSES ONLY & MUST BE REVISION BY GC. USING ARCHITECTS FINAL WORKING DRAWINGS (ARCH., ELEC., PLUMB. & VENT.). SHALL FURNISH FULLY DIMENSIONED ROUGH-IN PLAN FOR ELECTRICAL, PLUMBING, VENTILATION, DEPRESSION & WALL OPENINGS WITHIN 30 DAYS AFTER AWARD OF CONTRACT. PLANS ARE TO BE REVISION & NOT TRACED-OFF OF ORIGINAL DRAWINGS.

GC IS TO ASSIST EC DURING PERIOD WHILE FINAL ROUGH-IN CONNECTIONS ARE BEING MADE. GC SHALL FURNISH ALL NECESSARY WIRING DETAILS AS REQUIRED. GC ALSO TO HAVE FIELD SUPERVISOR ON JOBSITE AT TIME OF FINAL CONN'S.

GC SHALL CONTACT ELECTRICAL ENGINEER BEFORE DRAWING ROUGH-IN PLAN TO VERIFY EXACT VOLTAGES AVAILABLE ON JOBSITE. THIS CHECK MUST BE MADE TO INSURE PROPER VOLTAGES TO ALL EQUIPMENT.

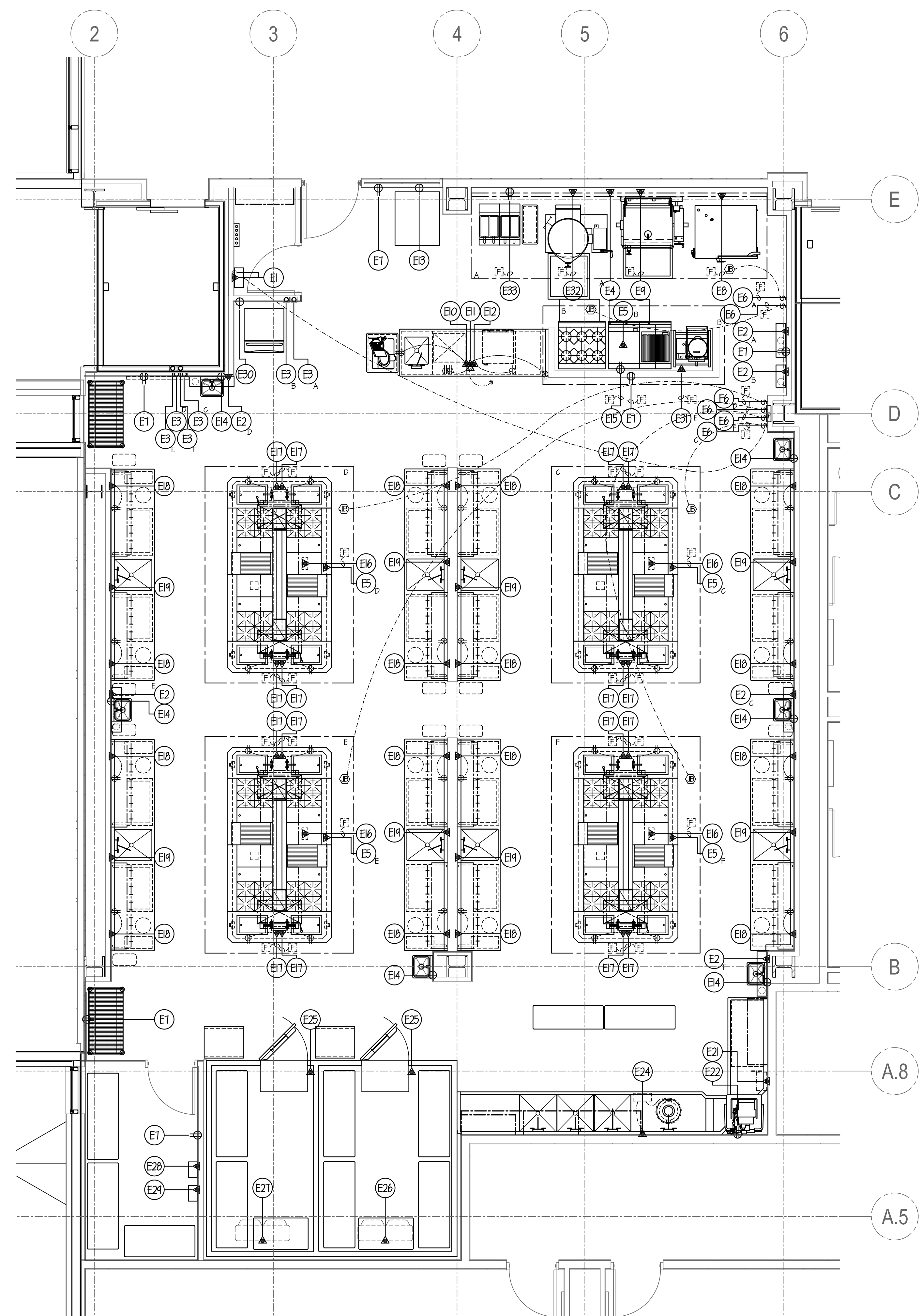
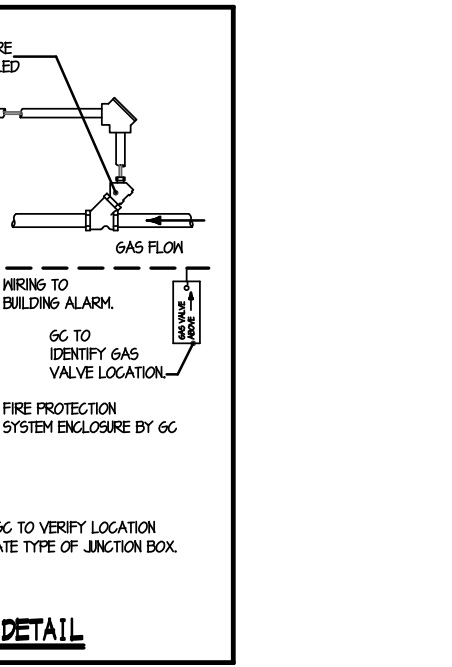
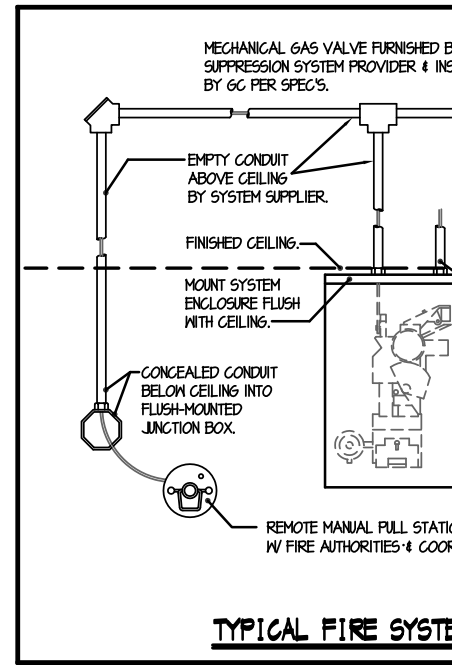
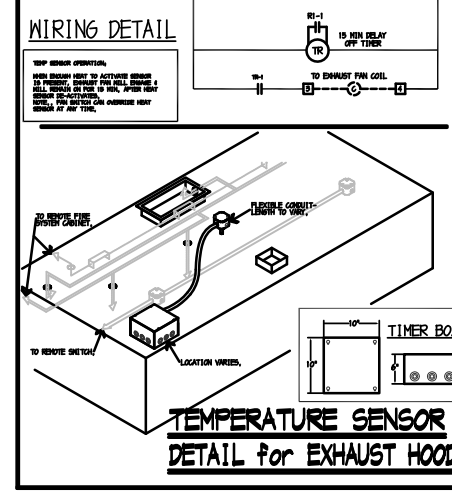
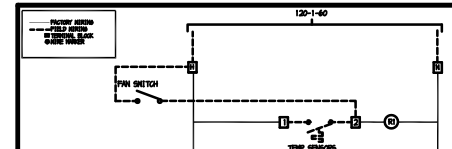
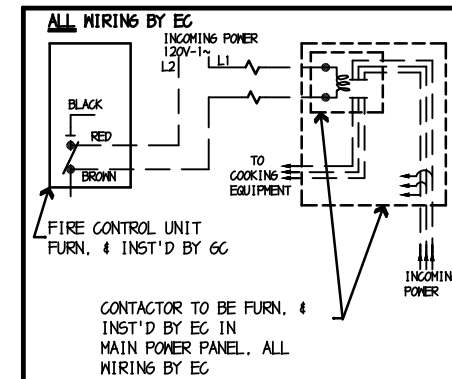
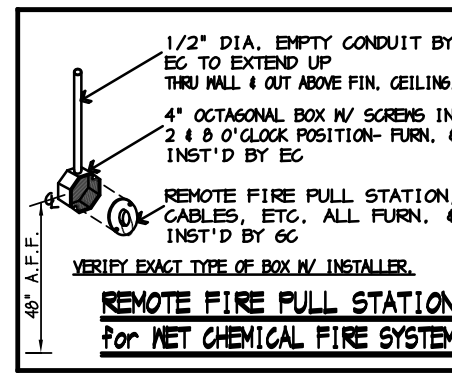
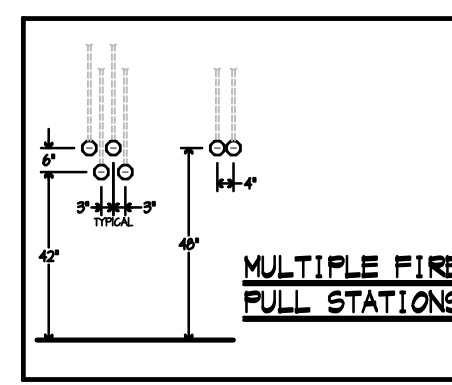
**GENERAL NOTE FOR ROUGH-IN PLAN**

ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON WALL SHOULD BE BROUGHT TO THAT POINT CONCEALED IN WALL & STUBBED-OUT AT HEIGHT SHOWN ON THIS PLAN OR GC FINAL DIMENSIONED ROUGH-IN PLAN. DO NOT STUB OUT OF FLOOR & RUN EXPOSED ON WALL.



**ELECTRICAL ROUGH-IN CODE**

- J.B. JUNCTION BOX
- A ELECTRICAL CONDUIT CONNECTION
- M.P. METER
- KH. KILOWATT
- V. VOLT
- SP. SINGLE PHASE
- TH. THREE PHASE
- SR. SINGLE RECEPTACLE
- DF. DUPLEX FLOOR RECEPTACLE
- FR. FUSED DISCONNECT SWITCH
- A.F.F. ABOVE FINISH FLOOR

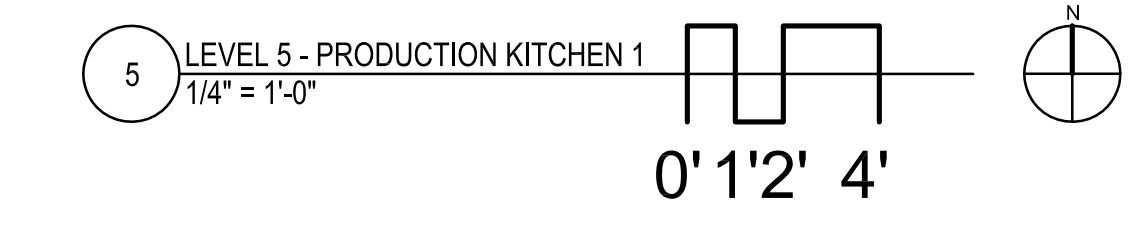


**ALL PRODUCTION KITCHEN 1 EQUIPMENT TO BE BID UNDER ALTERNATE BID G-2**

**ELECTRICAL NOTES**

- E1 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD CONTROL SYSTEM. GC TO FURN. & INSTALL CONTROL PANEL & REMOTE TOUCH PANEL. ALL INTER-WIRING & CAT 5 WIRING BY EC. BROADBAND INTERNET CONNECTION BY EC- OUT OF WALL TO HOOD CONTROL PANEL. ALL ADDITIONAL 2 & 3 WIRE INTER-WIRING BY EC. SEE SHEET FSE-65 FOR ALL ADDITIONAL DETAILS.
- E2 8.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL THIS SHEET.
- E3 4" OCTAGON BOX FURN. & INST'D BY EC- FLUSH IN WALL 42" A.F.F. FOR FIRE SYSTEM REMOTE PULL STATION BY GC. SEE DETAILS THIS SHEET.
- E4 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL THIS SHEET.
- E5 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL THIS SHEET.
- E6 15.0 AMP (CIRCUIT) 120V-1ph. SWITCH FURN. & INST'D BY EC- FLUSH IN WALL 48" A.F.F. FOR HOOD HOOD CONTROL BOX PRE-WIRED BY GC W/ FINAL CONN. BY EC. EC TO INTER-WIRE BETWEEN HOOD SECTIONS IN FIELD.
- E7 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR GENERAL USE.
- E8 8.7 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR COMBI-OVEN.
- E9 5.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR BRAISING PAN.
- E10 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. (2) TWO DUPLEX RECEPTACLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- E11 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR A/V EQUIP). RECEPTACLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- E12 30.5 AMP (LOAD) 120/208V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR DISHWASHER). SINGLE RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- E13 26.5 AMP (LOAD) 208V-3ph. SINGLE RECEPTACLE FLUSH IN WALL 7'-3" A.F.F. FOR BLAST FREEZER.
- E14 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- E15 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR RANGES.
- E16 34.6 AMP (LOAD/TOTAL) 120/208-1ph. COND. CONN. STUB-UP THRU FLOOR FOR WALDORF.
- E17 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO WALDORF. DUPLEX RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- E18 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. (1) ONE DUPLEX RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- E19 16.2 AMP (TOTAL LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR UNDERCOUNTER REFRIG'S (REMOTE). BLOWER COILS & LIGHTS PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- E20 OMIT- NOT USED
- E21 23.7 AMP (LOAD) 480V-3ph. COND. CONN. OUT OF WALL FOR DISHWASHER W/ DISCONN. SWITCH FURN. & INST'D BY EC (PER CODE).
- E22 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR SOAP & RINSE SYSTEM.
- E23 SPARE- NOT USED
- E24 3 HP. 480V-3ph. COND. CONN. OUT OF WALL FOR DISPOSER. EC TO INTER-WIRE TO CONTROL PANEL & DISPOSER.
- E25 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR WALK-IN. ALL SERVICES PRE-WIRED BY GC TO J.B. ON TOP W/ FINAL CONN. BY EC. EC TO INTER-WIRE TO ALL SERVICES IN FIELD.
- E26 1.8 AMP (LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR REFRIGERATOR COIL. REFRIGERATOR COIL TO RUN CONTINUOUSLY.
- E27 14.4 AMP (LOAD) 208V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR FREEZER COIL. ALL CONTROL WIRING BY EC- FROM CONDENSER TO FREEZER COIL. ALL FINAL CONNS BY EC.
- E28 COND. CONN. OUT OF WALL FOR EXHAUST HOOD VFD SYSTEM. ALL INTER-WIRING BY EC- WIRE POWER SUPPLY TO EXHAUST FANS BY MECH. TRADES & WIRE TO HOODS BY GC. VERIFY POWER REQUIREMENTS W/ MECH. ENGINEER. SEE DETAILS ON SHEET FSE-65.
- E29 COND. CONN. OUT OF WALL FOR EXHAUST HOOD VFD SYSTEM. ALL INTER-WIRING BY EC- WIRE POWER SUPPLY TO EXHAUST FANS BY MECH. TRADES & WIRE TO HOODS BY GC. VERIFY POWER REQUIREMENTS W/ MECH. ENGINEER. SEE DETAILS ON SHEET FSE-65.
- E30 14.2 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 48" A.F.F. FOR ICE MAKER.
- E31 1.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR KETTLE CONTROL.
- E32 5.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR KETTLE.
- E33 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR FRYERS.
- E34 SPARE- NOT USED

NOTE:  
ALL ADDITIONAL RECEPTACLES, CONN'S, WIRING, ETC. TO BE SHOWN BY ELECT. ENGINEER.  
ALL 120V DUPLEX RECEPTACLES WITHIN KITCHEN AREAS MUST BE GFCI PROTECTED BY EC.  
EC TO FURN. & INSTALL ALL LINE DISCONNECT SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJWW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

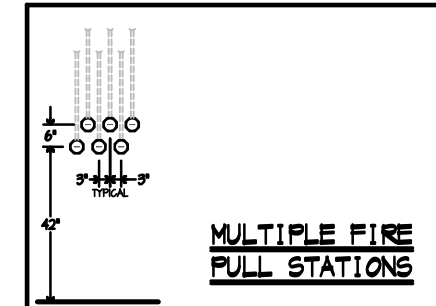
**PRODUCTION KITCHEN 1  
ISSUED FOR CONSTRUCTION**

**FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN**

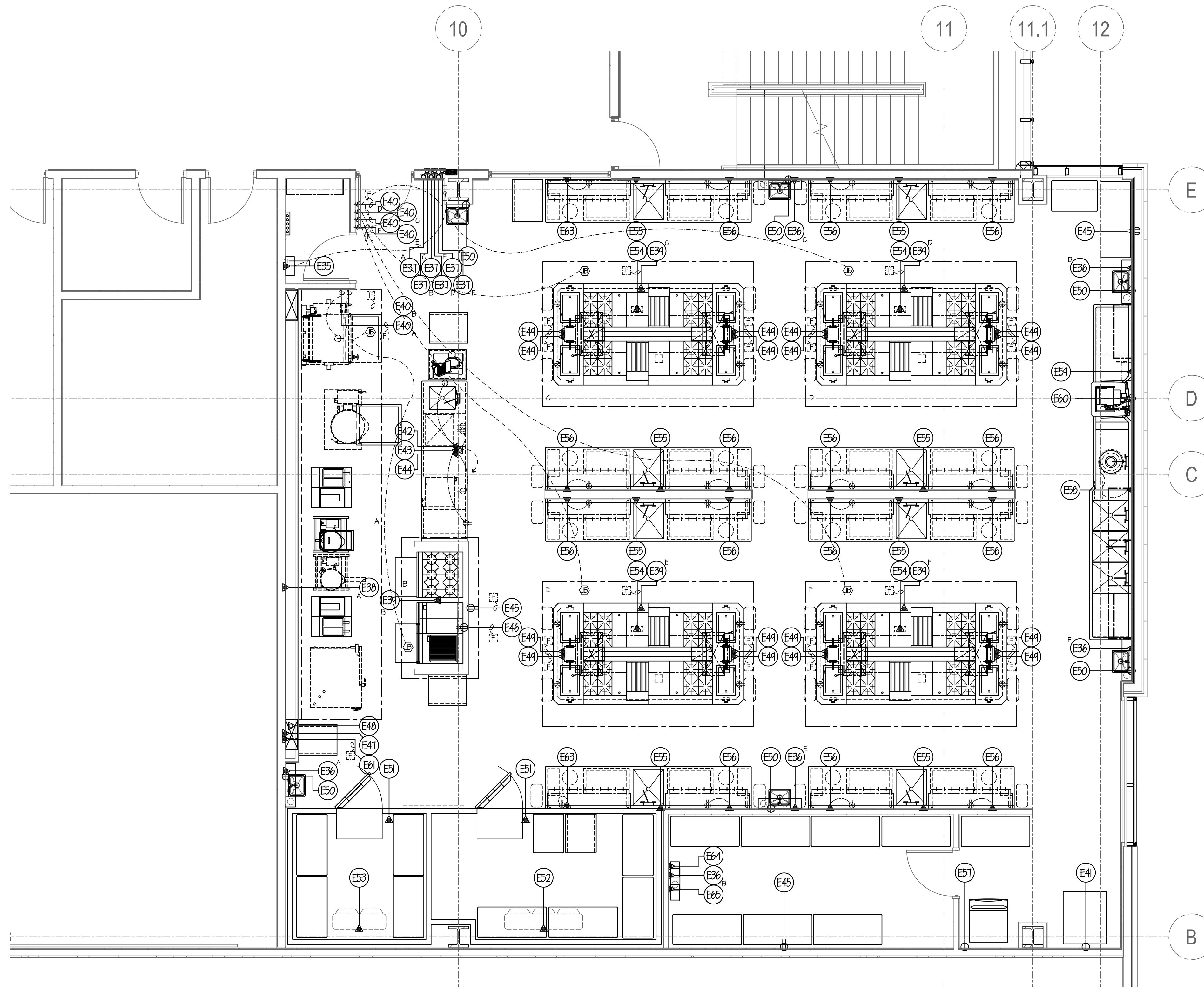
**CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. **FSE-16** OF SHEETS





**NOTE...**  
SEE SHEET FSE-16 FOR ALL ELECTRICAL ROUGH-IN DETAILS & SCHEDULES.



**ELECTRICAL NOTES**

- (E1) THRU (E4) SEE SHEET FSE-16.
- (E35) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD CONTROL SYSTEM. GC TO FURN. & INSTALL CONTROL PANEL & REMOTE TOUCH PANEL. ALL INTER-WIRING & CAT 5 WIRING BY EC. BROADBAND INTERNET CONNECTION BY EC- OUT OF WALL TO HOOD CONTROL PANEL. ALL ADDITIONAL 2 & 3 WIRE INTER-WIRING BY EC. SEE SHEET FSE-14 FOR ALL ADDITIONAL DETAILS.
- (E36) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-16.
- (E37) 4" OCTAGON BOX FURN. & INST'D BY EC- FLUSH IN WALL 42"X48" A.F.F. FOR FIRE SYSTEM REMOTE PULL STATION BY GC SEE DETAILS ON SHEET FSE-16.
- (E38) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-16.
- (E39) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-16.
- (E40) 15.0 AMP (CIRCUIT) 120V-1ph. SWITCH FURN. & INST'D BY EC- FLUSH IN WALL 48" A.F.F. FOR HOOD. HOOD CONTROL BOX PRE-WIRED BY GC W/ FINAL CONN. BY EC. EC TO INTER-WIRE BETWEEN HOOD SECTIONS IN FIELD.
- (E41) 26.5 AMP (LOAD) 208V-3ph. SINGLE RECEPTACLE FLUSH IN WALL 1'-3" A.F.F. FOR BLAST FREEZER.
- (E42) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. (2) TWO DUPLEX RECEPTACLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E43) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR AV EQUIP). RECEPTACLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E44) 30.5 AMP (LOAD) 120/208V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR DISHWASHER). SINGLE RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E45) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR GENERAL USE.
- (E46) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR RANGES.
- (E47) 125.0 AMP SERVICE 208/208V-3ph. COND. CONN. OUT OF WALL FOR UTILITY DISTRIBUTION SYSTEM (UDS). UDS PRE-WIRED BY GC W/ FINAL CONN. BY EC.
- (E48) EC TO INTER-WIRE FROM UDS FIRE SYSTEM SHUT-OFF TO HOOD FIRE SYSTEM. SEE DETAILS ON SHEET FSE-13.
- (E49) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO WALDORF. DUPLEX RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E50) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- (E51) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR WALK-IN. ALL SERVICES PRE-WIRED BY GC TO J.B. ON TOP W/ FINAL CONN. BY EC. EC TO INTER-WIRE TO ALL SERVICES IN FIELD.
- (E52) 2.1 AMP (LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR REFRIGERATOR COIL. REFRIGERATOR COIL TO RUN CONTINUOUSLY.
- (E53) 9.6 AMP (LOAD) 208V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR FREEZER COIL. ALL CONTROL WIRING BY EC- FROM CONDENSER TO FREEZER COIL. ALL FINAL CONNS BY EC.
- (E54) 34.6 AMP (LOAD/TOTAL) 120/208V-1ph. COND. CONN. STUB-UP THRU FLOOR FOR WALDORF.
- (E55) 16.2 AMP (TOTAL LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR UNDERCOUNTER REFRIG'S (REMOTE). BLOWER COILS & LIGHTS PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E56) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL TO COUNTER. (1) ONE DUPLEX RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E57) 14.2 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 48" A.F.F. FOR ICE MAKER.
- (E58) 3 HP. 480V-3ph. COND. CONN. OUT OF WALL FOR DISPOSER. EC TO INTER-WIRE TO CONTROL PANEL & DISPOSER.
- (E59) 23.7 AMP (LOAD) 480V-3ph. COND. CONN. OUT OF WALL FOR DISHWASHER W/ DISCONN. SWITCH FURN. & INST'D BY EC (PER CODE).
- (E60) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR SOAP & RINSE SYSTEM.
- (E61) 100.0 AMP SERVICE 480/208V-3ph. COND. CONN. OUT OF WALL FOR UTILITY DISTRIBUTION SYSTEM (UDS). UDS PRE-WIRED BY GC W/ FINAL CONN. BY EC.
- (E62) OMIT- NOT USED
- (E63) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. (1) ONE DUPLEX RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E64) COND. CONN. OUT OF WALL FOR EXHAUST HOOD VFD SYSTEM. ALL INTER-WIRING BY EC- WIRE POWER SUPPLY TO EXHAUST FANS BY MECH. TRADES & WIRE TO HOODS BY GC. VERIFY POWER REQUIREMENTS W/ MECH. ENGINEER. SEE DETAILS ON SHEET FSE-14.
- (E65) COND. CONN. OUT OF WALL FOR EXHAUST HOOD VFD SYSTEM. ALL INTER-WIRING BY EC- WIRE POWER SUPPLY TO EXHAUST FANS BY MECH. TRADES & WIRE TO HOODS BY GC. VERIFY POWER REQUIREMENTS W/ MECH. ENGINEER. SEE DETAILS ON SHEET FSE-14.
- (E66) SPARE- NOT USED
- (E67) SPARE- NOT USED
- (E68) SPARE- NOT USED

**NOTE-**  
ALL ADDITIONAL RECEPTACLES, CONN'S, WIRING, ETC. TO BE SHOWN BY ELECT. ENGINEER.  
ALL 120V DUPLEX RECEPTACLES WITHIN KITCHEN AREAS MUST BE GFCI PROTECTED BY EC.  
EC TO FURN. & INSTALL ALL LINE DISCONNECT SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>PRODUCTION KITCHEN 2 ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-17</b> OF SHEETS

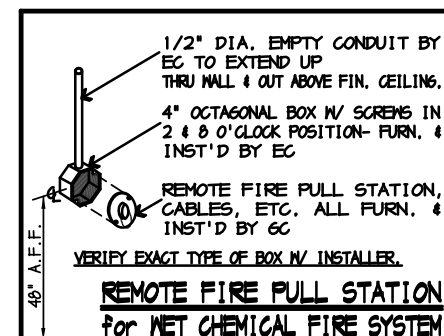
**GENERAL NOTES FOR ROUGH-IN PLAN**

THIS PLAN IS TO BE USED FOR BIDDING PURPOSES ONLY & MUST BE REPRAN BY GC. FINAL WORKING DRAWINGS (ARCH., ELEC., PLUMB., VENT.) SHALL FURNISH FULL DIMENSIONED ROUGH-IN PLAN FOR ELECTRICAL, PLUMBING, VENTILATION, DEPRESSION & WALL OPENINGS WITHIN 30 DAYS AFTER AWARD OF CONTRACT. GC ALSO TO HAVE FIELD SUPERVISOR ON JOBSITE AT TIME OF FINAL CONN'S.

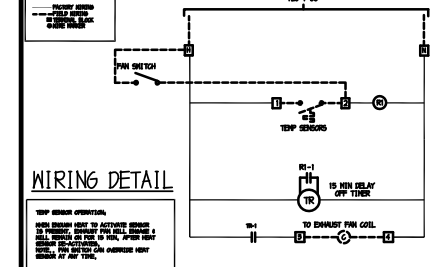
GC IS TO VERIFY EG. DURING PERIOD WHILE FINAL ROUGH-IN CONNECTIONS ARE BEING MADE. GC SHALL FURNISH ALL NECESSARY WIRING DETAILS AS REQUIRED. GC ALSO TO HAVE FIELD SUPERVISOR ON JOBSITE AT TIME OF FINAL CONN'S.

**ELECTRICAL ROUGH-IN CODE**

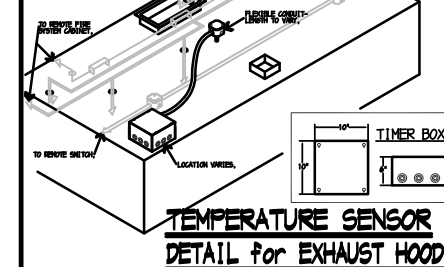
- J.B. JUNCTION BOX
- EC ELECTRICAL CONNECTION
- W.K. WIRE KEEPER
- CLY. CLOSURE
- W. WATT
- V. VOLT
- 3P. THREE PHASE
- 2P. TWO PHASE
- DR. DUPLEX RECEPTACLE
- SR. SINGLE RECEPTACLE
- FL. FUSED DISCONNECT SWITCH
- SW. SWITCH
- A.P.F. ABOVE FINISH FLOOR



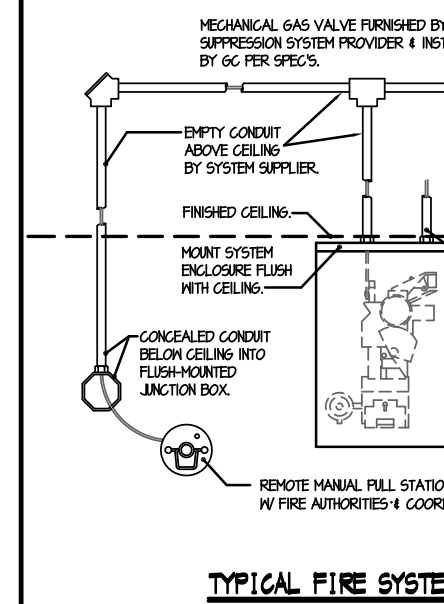
**WIRING SCHEMATIC FOR NET CHEMICAL FIRE SYSTEM**



**WIRING DETAIL**

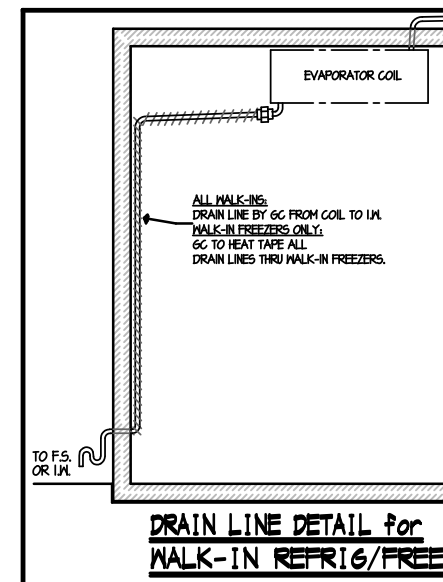


**TYPICAL FIRE SYSTEM DETAIL**

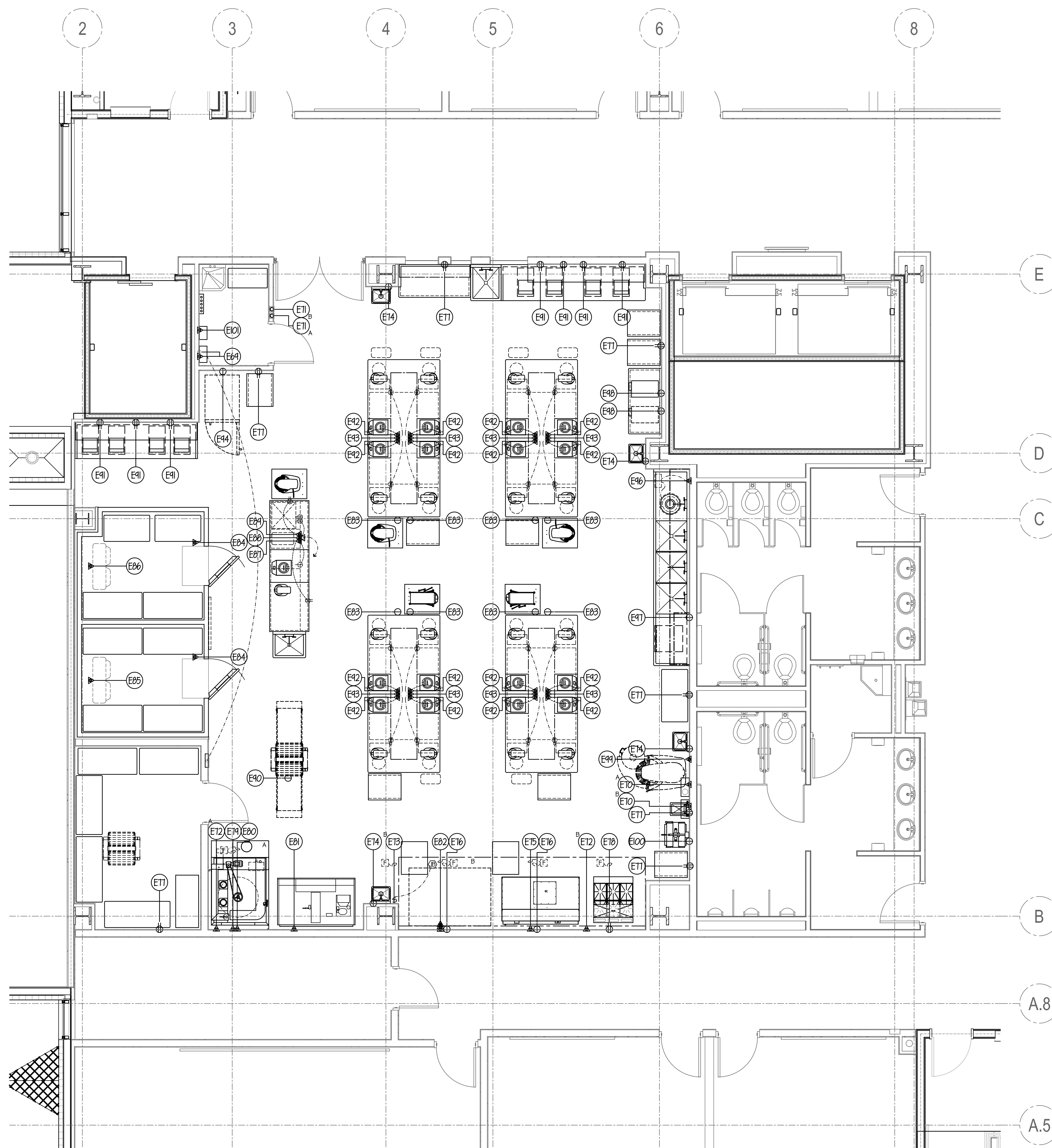
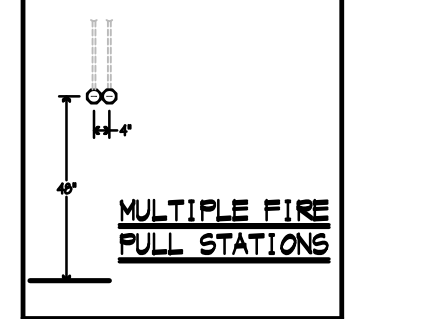


**GENERAL NOTE FOR ROUGH-IN PLAN**

ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON WALL SHOULD BE BROUGHT TO THAT POINT CONSOLIDATED IN WALL & STUBBED-OUT AT HEIGHT SHOWN ON THIS PLAN OR GC FINAL DIMENSIONED ROUGH-IN PLAN. GC NOT STUB OUT OF FLOOR & RUN EXPOSED ON WALL.

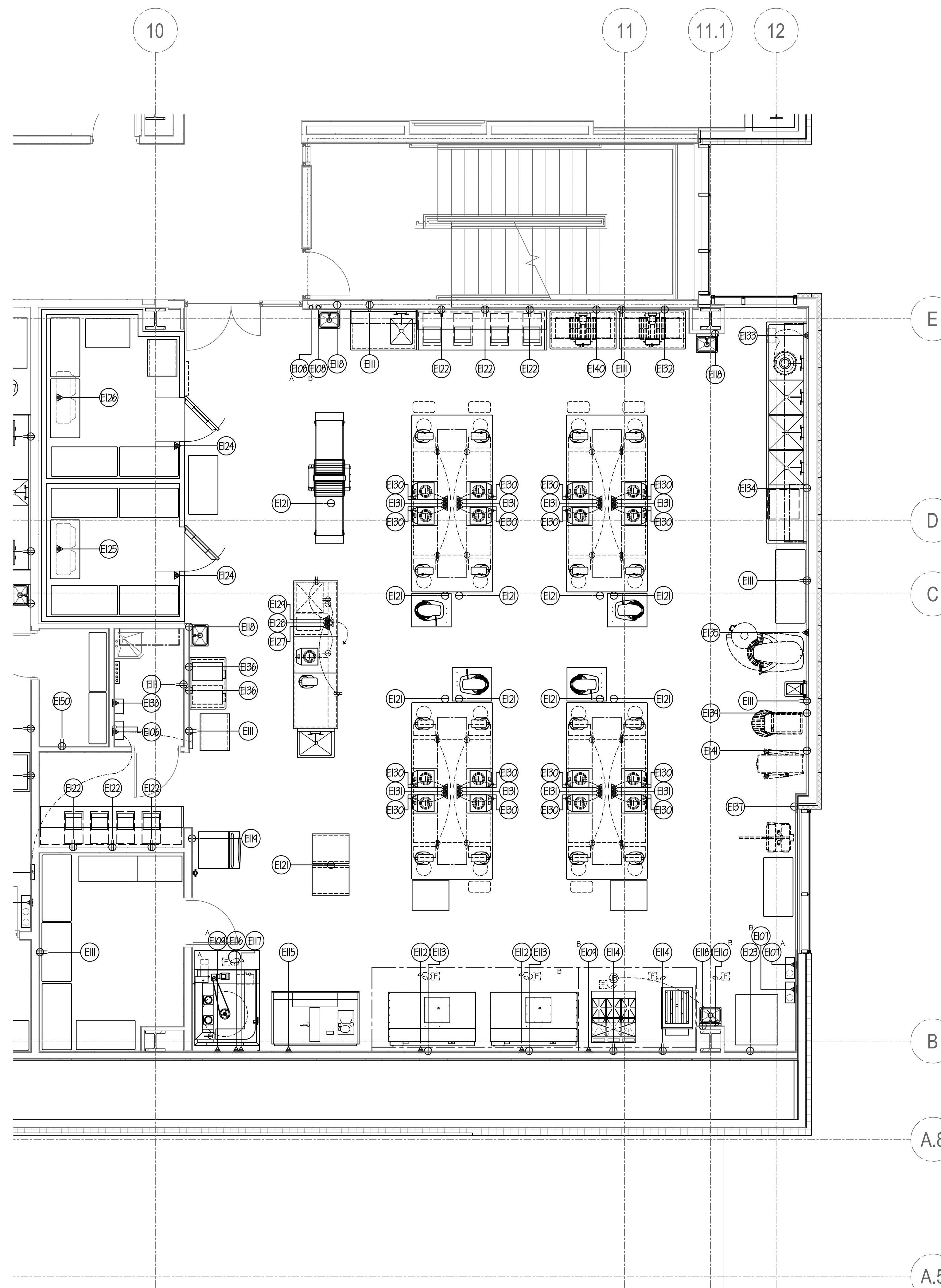


**MULTIPLE FIRE PULL STATIONS**





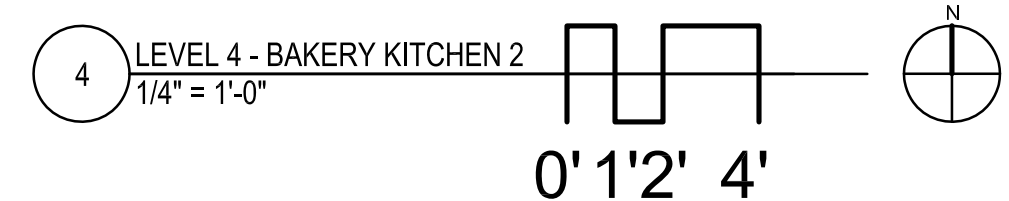
NOTE...  
SEE SHEET FSE-18 FOR ALL ELECTRICAL ROUGH-IN DETAILS & SCHEDULES.



ELECTRICAL NOTES

- (EI THRU (E34) SEE SHEET FSE-16.
- (E35 THRU (E68) SEE SHEET FSE-17.
- (E69 THRU (E105) SEE SHEET FSE-18.
- (E106) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD CONTROL SYSTEM. GC TO FURN. & INSTALL CONTROL PANEL & REMOTE TOUCH PANEL. ALL INTER-WIRING & CAT 5 WIRING BY EC. BROADBAND INTERNET CONNECTION BY EC. OUT OF WALL TO HOOD CONTROL PANEL. ALL ADDITIONAL 2 & 3 WIRE INTER-WIRING BY EC. SEE SHEET FSE-83 FOR ALL ADDITIONAL DETAILS.
- (E107) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-18.
- (E108) 4" OCTAGON BOX FURN. & INST'D BY EC. FLUSH IN WALL 48" A.F.F. FOR FIRE SYSTEM REMOTE PULL STATION BY GC. SEE DETAILS ON SHEET FSE-18.
- (E109) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-18.
- (E110) 15.0 AMP (CIRCUIT) 120V-1ph. SWITCH FURN. & INST'D BY EC. FLUSH IN WALL 48" A.F.F. FOR HOOD. HOOD CONTROL BOX PRE-WIRED BY GC W/ FINAL CONN. BY EC.
- (EI11) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR GENERAL USE.
- (EI12) 37.5 KW (TOTAL LOAD) 480V-3ph. FLEX. COND. CONN. OUT OF WALL FOR DECK OVEN. 3 DECKS PRE-WIRED BY GC TO ONE COMMON CONN. W/ FINAL CONN. BY EC.
- (EI13) 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 30" A.F.F. FOR DECK OVEN.
- (EI14) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR RANGES.
- (EI15) 35.0 AMP (LOAD) 120/208V-1ph. COND. CONN. OUT OF WALL FOR PROOFER/RETARDER.
- (EI16) 15 AMP (CIRCUIT) 480V-3ph. COND. CONN. OUT OF WALL FOR ROTARY OVEN.
- (EI17) 15 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR ROTARY OVEN.
- (EI18) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- (EI19) 13.2 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 48" A.F.F. FOR ICE MAKER.
- (EI20) SPARE- NOT USED
- (EI21) 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE DROP-DOWN FROM ABOVE TO 12" A.F.F. FOR COUNTER USE. STRAIN-RELIEF TYPE CORD & PLUG BY EC. SECURE ABOVE FIN. CEILING.
- (EI22) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 45" A.F.F. HORIZONTAL FOR EQUIPMENT USE.
- (EI23) 26.5 AMP (LOAD) 208V-3ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR BLAST CHILLER.
- (EI24) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR WALK-IN. ALL SERVICES PRE-WIRED BY GC TO J.B. ON TOP W/ FINAL CONN. BY EC. EC TO INTER-WIRE TO ALL SERVICES IN FIELD.
- (EI25) 9.6 AMP (LOAD) 208V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR FREEZER COIL. ALL CONTROL WIRING BY EC- FROM CONDENSER TO FREEZER COIL. ALL FINAL CONNS BY EC.
- (EI26) 1.8 AMP (LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR REFRIGERATOR COIL. REFRIGERATOR COIL TO RUN CONTINUOUSLY.
- (EI27) 15.0 AMP (LOAD) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR INDUCTION COOKER). SINGLE RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (EI28) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR AV EQUIP). RECEPTACLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (EI29) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. (2) TWO DUPLEX RECEPTACLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (EI30) 15.0 AMP (LOAD) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR INDUCTION COOKER). SINGLE RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (EI31) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. (2) TWO DUPLEX RECEPTACLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (EI32) 7.6 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR EXISTING DOUGH SHEETER.
- (EI33) 3 HP. 480V-3ph. COND. CONN. OUT OF WALL FOR DISPOSER. EC TO INTER-WIRE TO CONTROL PANEL & DISPOSER.
- (EI34) 30.5 AMP (LOAD) 120/208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR DISHWASHER.
- (EI35) 5.9 AMP (LOAD) 208V-3ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR EXISTING MIXER.
- (EI36) 16.0 AMP (LOAD) 208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR ICE CREAM MAKER.
- (EI37) 12.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR EXISTING DOUGH DIVIDER.
- (EI38) COND. CONN. OUT OF WALL FOR EXHAUST HOOD VFD SYSTEM. ALL INTER-WIRING BY EC- WIRE POWER SUPPLY TO EXHAUST FANS BY MECH. TRADES & WIRE TO HOODS BY GC. VERIFY POWER REQUIREMENTS W/ MECH. ENGINEER. SEE DETAILS ON SHEET FSE-83.
- (EI39) 3.15 KW (LOAD) 220V-3ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR EXISTING SPIRAL MIXER.
- (EI40) 9.16 AMP (LOAD) 220V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR DOUGH EXISTING SHEETER.
- (EI41) 3.15 KW (LOAD) 220V-3ph. SINGLE RECEPTACLE (HBL2621) FLUSH IN WALL 18" A.F.F. FOR EXISTING MIXER.

NOTE...  
ALL ADDITIONAL RECEPTACLES, CONNS, WIRING, ETC. TO BE SHOWN BY ELECT. ENGINEER.  
ALL 120V DUPLEX RECEPTACLES WITHIN KITCHEN AREAS MUST BE GFCI PROTECTED BY EC.  
EC TO FURN. & INSTALL ALL LINE DISCONNECT SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.  
EC TO VERIFY VOLTAGE, LOAD AND CONNECTION TYPE REQUIRED FOR ALL USING AGENCY FURNISHED ITEMS.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

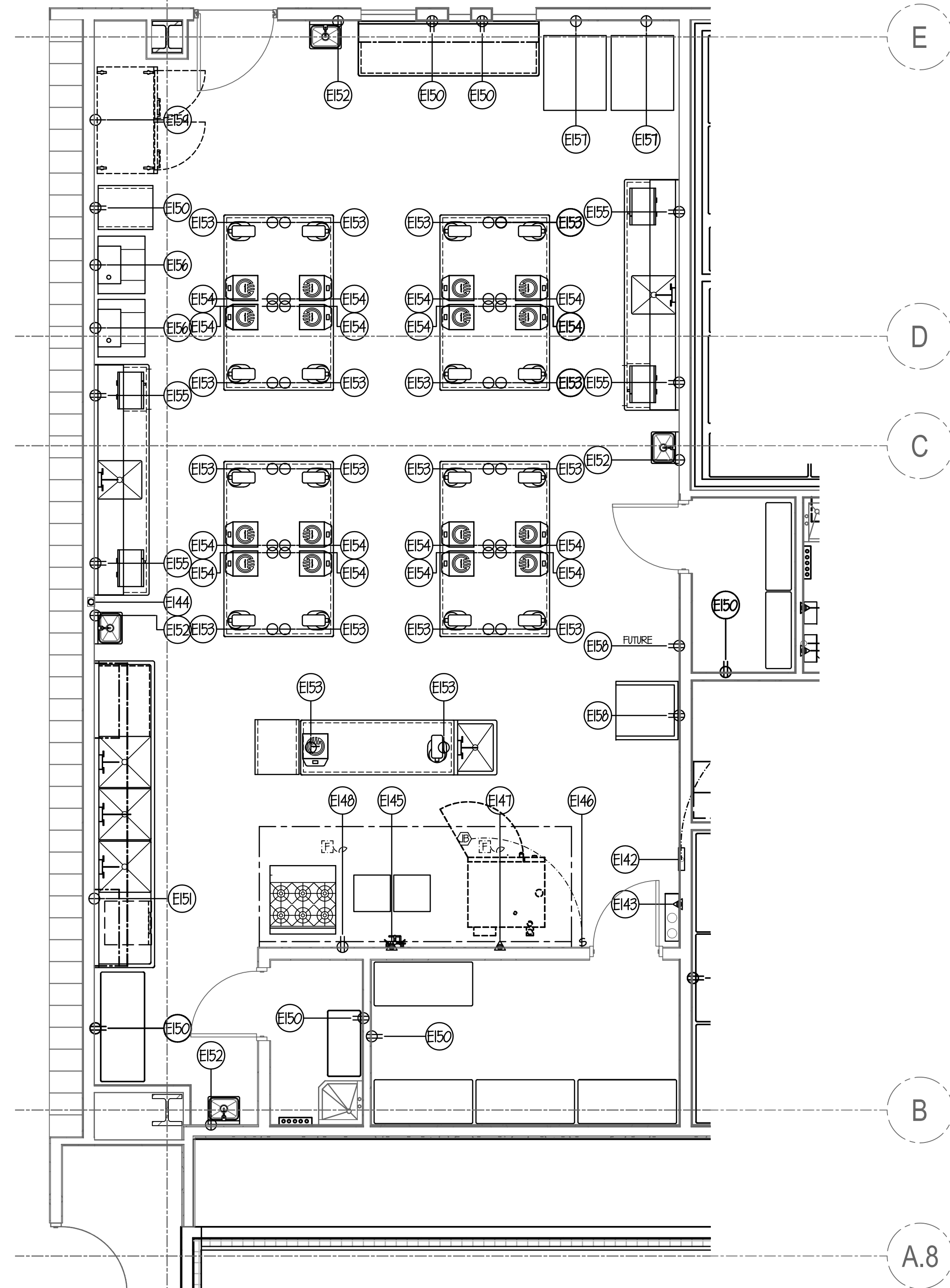
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>BAKERY KITCHEN 2</b> <b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-19</b> OF SHEETS

9

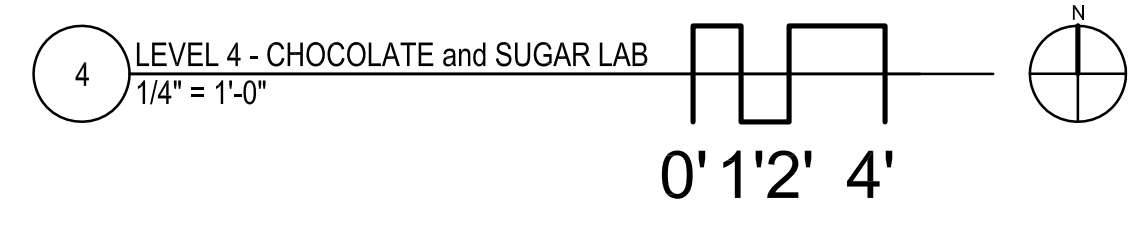
NOTE . . .  
SEE SHEET FSE-18 FOR ALL  
ELECTRICAL ROUGH-IN  
DETAILS & SCHEDULES.



ELECTRICAL NOTES

- (E1) THRU (E34) SEE SHEET FSE-16.
- (E35) THRU (E60) SEE SHEET FSE-17.
- (E61) THRU (E105) SEE SHEET FSE-18.
- (E106) THRU (E141) SEE SHEET FSE-19.
- (E142) GC TO FURN. & INSTALL REMOTE TOUCH PANEL. ALL INTER-WIRING & CAT 5 WIRING BY EC. SEE SHEET FSE-03 FOR ALL ADDITIONAL DETAILS.
- (E143) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-18.
- (E144) 4" OCTAGON BOX FURN. & INST'D BY EC- FLUSH IN WALL 48" A.F.F. FOR FIRE SYSTEM REMOTE PULL STATION BY GC SEE DETAILS ON SHEET FSE-18.
- (E145) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-18.
- (E146) 15.0 AMP (CIRCUIT) 120V-1ph. SWITCH FURN. & INST'D BY EC- FLUSH IN WALL 48" A.F.F. FOR HOOD HOOD CONTROL BOX PRE-WIRED BY GC W/ FINAL CONN. BY EC.
- (E147) (2) 8.7 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR COMBI-OVEN.
- (E148) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR RANGES.
- (E149) SPARE- NOT USED
- (E150) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR GENERAL USE.
- (E151) 30.5 AMP (LOAD) 120/208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR DISHWASHER.
- (E152) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- (E153) 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE DROP-DOWN FROM ABOVE TO 12" A.F.F. FOR COUNTER USE. STRAIN-RELIEF TYPE CORD & PLUG BY EC. SECURE ABOVE FIN. CEILING.
- (E154) 15.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE DROP-DOWN FROM ABOVE TO 12" A.F.F. FOR INDUCTION COOKER. STRAIN-RELIEF TYPE CORD & PLUG BY EC. SECURE ABOVE FIN. CEILING.
- (E155) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR EQUIPMENT USE.
- (E156) 20.1 AMP (LOAD) 208V-3ph. SINGLE RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR CHOC. TEMP. MACH.
- (E157) 26.5 AMP (LOAD) 208V-3ph. SINGLE RECEPTACLE FLUSH IN WALL 1'-3" A.F.F. FOR BLAST FREEZER.
- (E158) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR AIR BRUSHING STATION.
- (E159) 12.2 AMP (LOAD) 120/208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 1'-3" A.F.F. FOR FREEZER.
- (E160) SPARE- NOT USED
- (E161) SPARE- NOT USED
- (E162) SPARE- NOT USED
- (E163) SPARE- NOT USED
- (E164) SPARE- NOT USED

NOTE...  
ALL ADDITIONAL RECEPTACLES, CONN.'s, WIRING, ETC.  
TO BE SHOWN BY ELECT. ENGINEER.  
ALL 120V DUPLEX RECEPTACLES WITHIN KITCHEN  
AREAS MUST BE GFCI PROTECTED BY EC.  
EC TO FURN. & INSTALL ALL LINE DISCONNECT  
SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

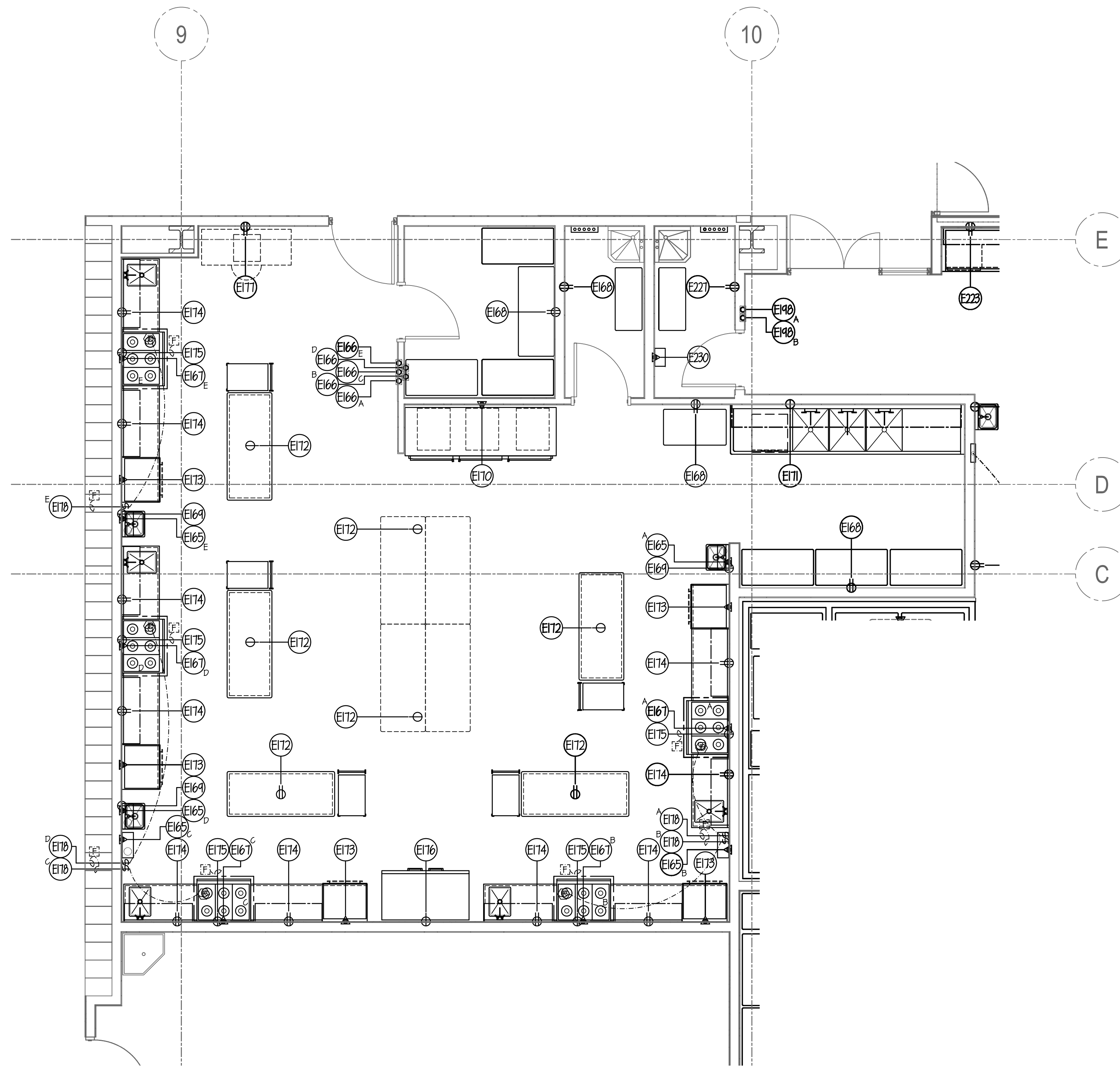
SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>CHOCOLATE and SUGAR LAB ISSUED FOR CONSTRUCTION</b>	
<b>FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN</b>	
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>	
PROJECT NO. CDB 810-048-023	DATE DEC. 12, 2014
SHEET NO. <b>FSE-20</b> OF SHEETS	

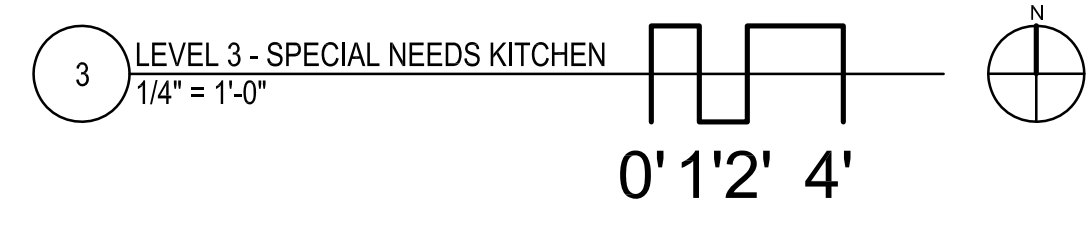


**ELECTRICAL NOTES**

- (E1) THRU (E34) SEE SHEET FSE-16.
- (E35) THRU (E68) SEE SHEET FSE-17.
- (E69) THRU (E109) SEE SHEET FSE-18.
- (E110) THRU (E141) SEE SHEET FSE-19.
- (E142) THRU (E164) SEE SHEET FSE-20.
- (E165) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-22.
- (E166) 4" OCTAGON BOX FURN. & INST'D BY EC- FLUSH IN WALL 42"X48" A.F.F. FOR FIRE SYSTEM REMOTE PULL STATION BY GC SEE DETAILS ON SHEET FSE-22.
- (E167) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-22.
- (E168) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR GENERAL USE.
- (E169) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- (E170) 10.6 AMP (LOAD) 120/208V-1ph. COND. CONN. OUT OF WALL 7'-3" A.F.F. FOR REFRIGERATOR.
- (E171) 30.5 AMP (LOAD) 120/208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR DISHWASHER.
- (E172) 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE DROP-DOWN FROM ABOVE TO 12" A.F.F. FOR COUNTER USE. STRAIN-RELIEF TYPE CORD & PLUG BY EC. SECURE ABOVE CEILING.
- (E173) 50 AMP (CIRCUIT) 208V-1ph. COND. CONN. OUT OF WALL FOR DOUBLE-OVEN.
- (E174) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR EQUIPMENT USE.
- (E175) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR RANGE (GAS).
- (E176) 12.2 AMP (LOAD) 120/208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 7'-3" A.F.F. FOR FREEZER.
- (E177) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR DESK USE.
- (E178) 15.0 AMP (CIRCUIT) 120V-1ph. SWITCH FURN. & INST'D BY EC- FLUSH IN WALL 48" A.F.F. FOR HOOD. HOOD CONTROL BOX PRE-WIRED BY GC W/ FINAL CONN. BY EC.
- (E179) THRU (E195) SPARE- NOT USED

NOTE...  
 ALL ADDITIONAL RECEPTACLES, CONN.'S, WIRING, ETC. TO BE SHOWN BY ELEC. ENGINEER.  
 ALL 120V DUPLEX RECEPTACLES WITHIN KITCHEN AREAS MUST BE GFCI PROTECTED BY EC.  
 EC TO FURN. & INSTALL ALL LINE DISCONNECT SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.

**NOTE . . .**  
 SEE SHEET FSE-22 FOR ALL ELECTRICAL ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**K J W W** K.J.W. ENGINEERING  
 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET BIRMINGHAM, MI 48009  
 T: 248.644.0990

<b>SPECIAL NEEDS KITCHEN ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-21</b> OF SHEETS



**GENERAL NOTES FOR ROUGH-IN PLAN**

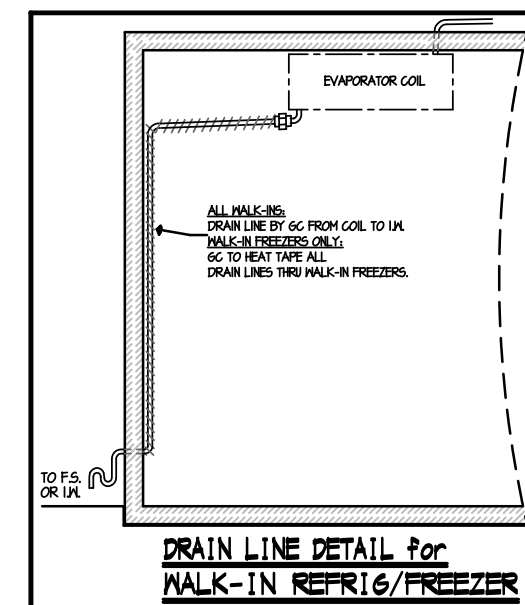
THIS PLAN IS TO BE USED FOR BIDDING PURPOSES ONLY & MUST BE REDRAWN BY GC USING ARCHITECT'S FINAL WORKING DRAWINGS (ARCH., ELEC., PLUMB. & MECH.). GC SHALL FURNISH FULLY DIMENSIONED ROUGH-IN PLAN FOR ELECTRICAL, PLUMBING, VENTILATION, DEPRESSION & WALL OPENINGS WITHIN 30 DAYS AFTER AWARD OF CONTRACT. PLANS ARE TO BE REDRAWN & NOT TRACKED-OFF OF ORIGINAL DRAWINGS.

GC IS TO ASSIST EC DURING PERIOD WHILE FINAL ROUGH-IN CONNECTIONS ARE BEING MADE. GC SHALL FURNISH ALL NECESSARY WIRING DETAILS AS REQUIRED. GC ALSO TO HAVE FIELD SUPERVISOR ON JOBSITE AT TIME OF FINAL CONN'S.

GC SHALL CONTACT ELECTRICAL ENGINEER BEFORE DRAWING ROUGH-IN PLAN TO VERIFY EXACT VOLTAGES AVAILABLE ON JOBSITE. THIS CHECK MUST BE MADE TO INSURE PROPER VOLTAGES TO ALL EQUIPMENT.

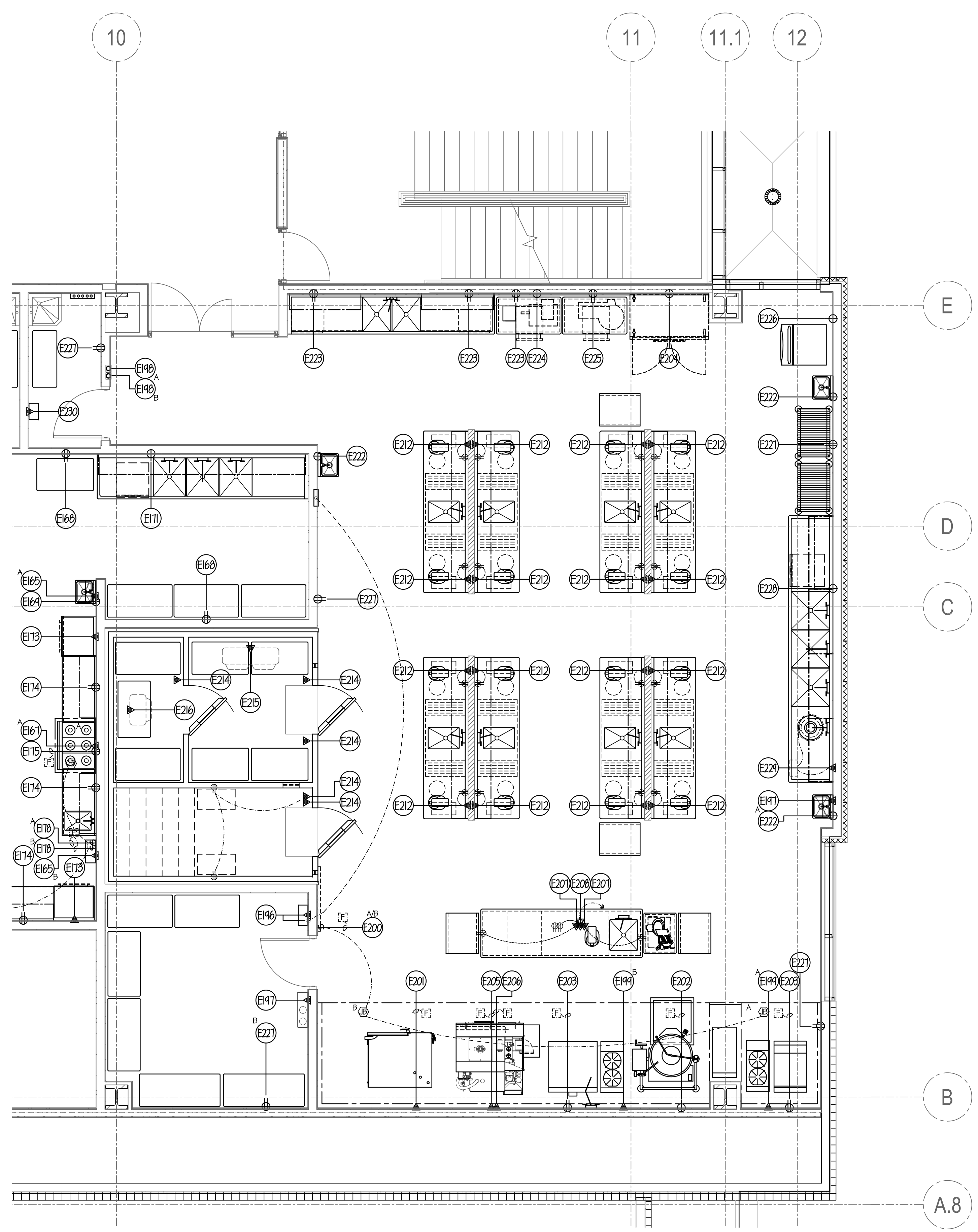
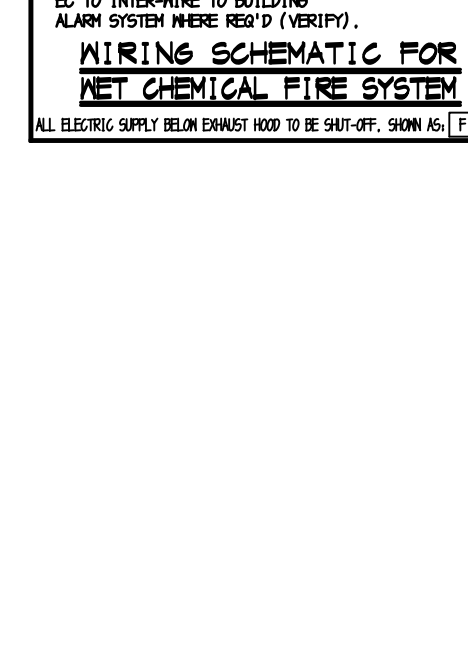
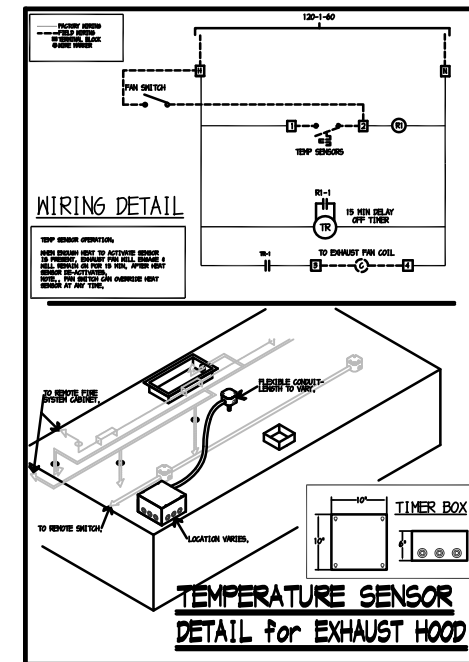
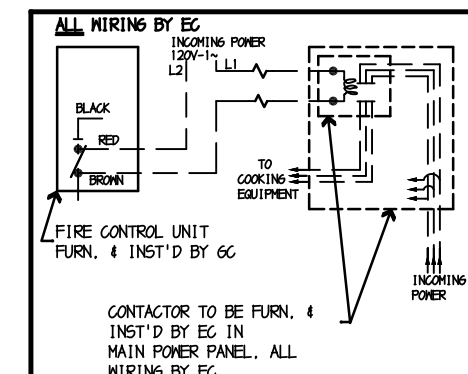
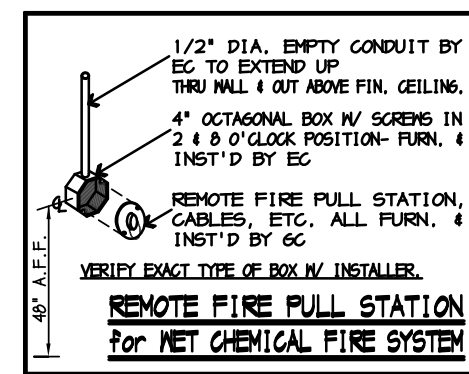
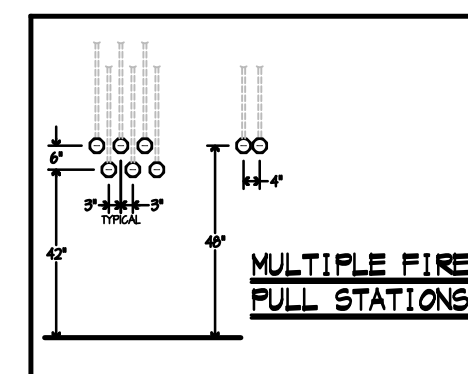
**GENERAL NOTE FOR ROUGH-IN PLAN**

ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON WALL SHOULD BE BROUGHT TO THAT POINT CONCEALED IN WALL & STUBBED-OUT AT HEIGHT SHOWN ON THIS PLAN OR GC FINAL DIMENSIONED ROUGH-IN PLAN. DO NOT STUB OUT OF FLOOR & RUN EXPOSED ON WALL.



**ELECTRICAL ROUGH-IN CODE**

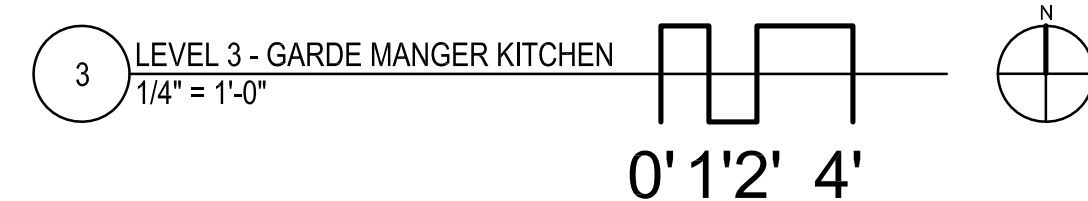
- J.B. JUNCTION BOX
- △ ELECTRICAL CONDUIT CONNECTION
- H.P. HORSEPOWER
- KILOWATT
- N. VOLT
- 1PH. SINGLE PHASE
- 3PH. THREE PHASE
- DUPLEX RECEPTACLE
- SINGLE RECEPTACLE
- DUPLEX FLOOR RECEPTACLE
- SINGLE FLOOR RECEPTACLE
- FIRED DISCONNECT SWITCH
- SWITCH ABOVE FINISH FLOOR



**ELECTRICAL NOTES**

- (E1) THRU (E34) SEE SHEET FSE-16.
- (E35) THRU (E60) SEE SHEET FSE-17.
- (E61) THRU (E103) SEE SHEET FSE-18.
- (E104) THRU (E141) SEE SHEET FSE-19.
- (E142) THRU (E164) SEE SHEET FSE-20.
- (E165) THRU (E195) SEE SHEET FSE-21.
- (E196) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD CONTROL SYSTEM. GC TO FURN. & INSTALL CONTROL PANEL & REMOTE TOUCH PANEL. ALL INTER-WIRING & CAT 5 WIRING BY EC. BROADBAND INTERNET CONNECTION BY EC. OUT OF WALL TO HOOD CONTROL PANEL. ALL ADDITIONAL 2 & 3 WIRE INTER-WIRING BY EC. SEE SHEET FSE-20 FOR ALL ADDITIONAL DETAILS.
- (E197) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON THIS SHEET.
- (E198) 4" OCTAGON BOX FURN. & INST'D BY EC. FLUSH IN WALL 48" A.F.F. FOR FIRE SYSTEM REMOTE PULL STATION BY GC. SEE DETAILS ON THIS SHEET.
- (E199) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL ON THIS SHEET.
- (E200) 15.0 AMP (CIRCUIT) 120V-1ph. SWITCH FURN. & INST'D BY EC. FLUSH IN WALL 48" A.F.F. FOR HOOD HOOD CONTROL BOX PRE-WIRED BY GC. GC TO INTER-WIRE BETWEEN HOOD SECTIONS IN FIELD.
- (E201) 8.7 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR COMBI-OVEN.
- (E202) 10.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL FOR KETTLE CONTROLS.
- (E203) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR COOKING EQUIPMENT.
- (E204) 10.7 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 7'-3" A.F.F. FOR TWO SECTION REACH-IN REFRIGERATOR.
- (E205) 18.5 AMP (LOAD) 208V-3ph. COND. CONN. OUT OF WALL FOR SMOKER.
- (E206) 64.9 AMP (LOAD) 208V-1ph. COND. CONN. OUT OF WALL FOR SMOKER.
- (E207) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. DUPLEX RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E208) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. (FOR A/V EQUIP.) RECEPTABLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E209) SPARE- NOT USED
- (E210) SPARE- NOT USED
- (E211) SPARE- NOT USED
- (E212) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL TO COUNTER. DUPLEX RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E213) SPARE- NOT USED
- (E214) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR WALK-IN. ALL SERVICES PRE-WIRED BY GC TO J.B. ON TOP W/ FINAL CONN. BY EC. EC TO INTER-WIRE TO ALL SERVICES IN FIELD.
- (E215) 1.8 AMP (LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR REFRIGERATOR COIL. REFRIGERATOR COIL TO RUN CONTINUOUSLY.
- (E216) 7.4 AMP (LOAD) 208V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR FREEZER COIL. ALL CONTROL WIRING BY EC. FROM CONDENSER TO FREEZER COIL. ALL FINAL CONNS BY EC.
- (E217) SPARE- NOT USED
- (E218) SPARE- NOT USED
- (E219) SPARE- NOT USED
- (E220) SPARE- NOT USED
- (E221) SPARE- NOT USED
- (E222) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- (E223) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR EQUIPMENT USE.
- (E224) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR EXISTING CHOPPER
- (E225) 1 HP. 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR FOOD CHOPPER.
- (E226) 13.2 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 60" A.F.F. FOR ICE MAKER.
- (E227) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR GENERAL USE.
- (E228) 30.5 AMP (LOAD) 120/208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR DISHWASHER.
- (E229) 3 HP. 480V-3ph. COND. CONN. OUT OF WALL FOR DISPOSER. EC TO INTER-WIRE TO CONTROL PANEL & DISPOSER.
- (E230) COND. CONN. OUT OF WALL FOR EXHAUST HOOD VFD SYSTEM. ALL INTER-WIRING BY EC. WIRE POWER SUPPLY TO EXHAUST FANS BY MECH. TRADES & WIRE TO HOODS BY GC. VERIFY POWER REQUIREMENTS W/ MECH. ENGINEER. SEE DETAILS ON SHEET FSE-88.
- (E231) SPARE- NOT USED
- (E232) SPARE- NOT USED
- (E233) SPARE- NOT USED

NOTE...  
 ALL ADDITIONAL RECEPTABLES, CONN'S, WIRING, ETC. TO BE SHOWN BY ELECT. ENGINEER.  
 ALL 120V DUPLEX RECEPTABLES WITHIN KITCHEN AREAS MUST BE GFCI PROTECTED BY EC.  
 EC TO FURN. & INSTALL ALL LINE DISCONNECT SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.

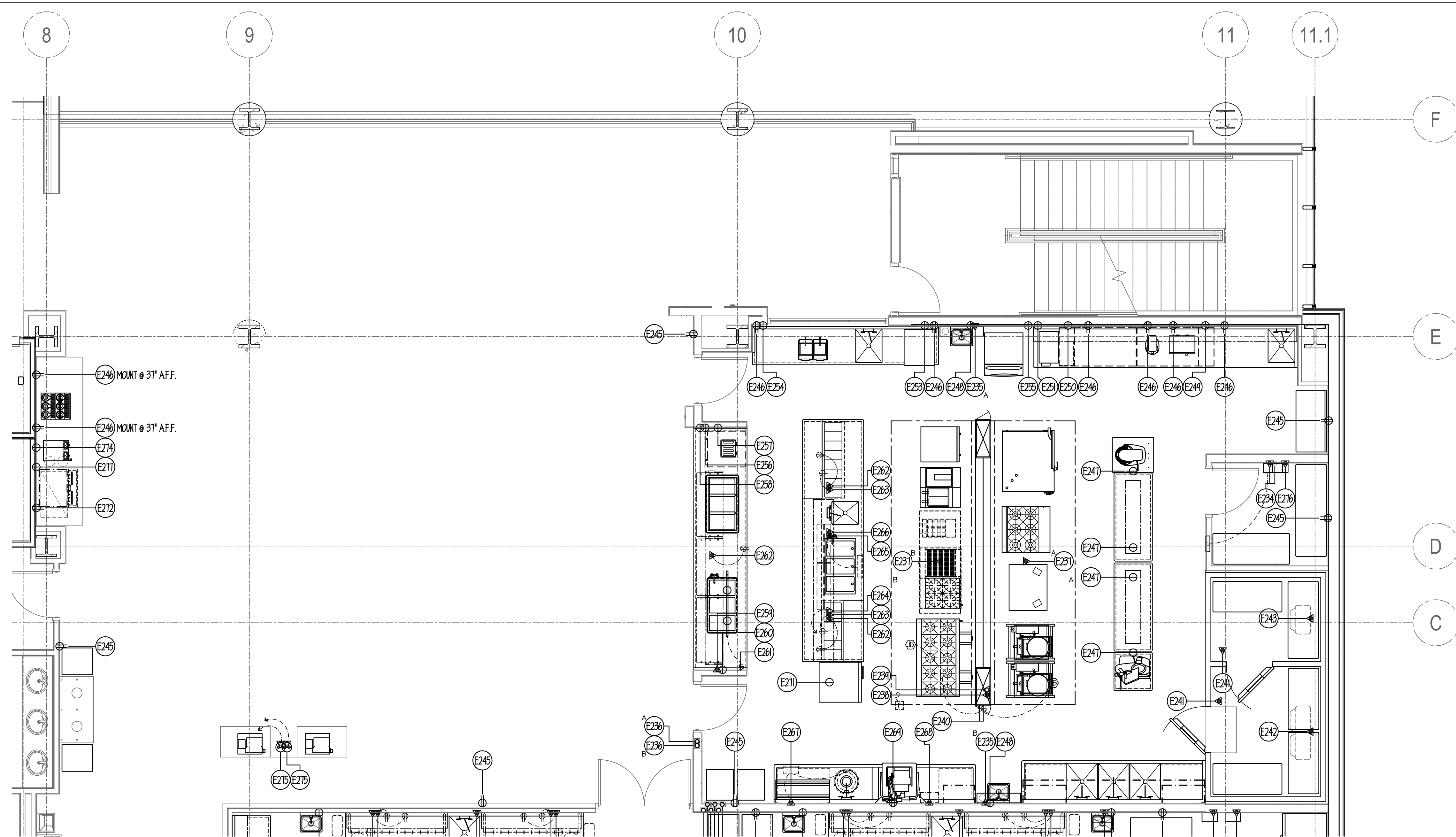


NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<p><b>dkA</b> DEMONICA KEMPER ARCHITECTS                  125 N. HALSTED STREET, SUITE 301                  CHICAGO, IL 60661                  P: 312.496.0000</p>	<p><b>KJWW</b> KJWW ENGINEERING                  1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563                  T: 630.527.2320</p>	<p><b>EFW</b> E.F. WHITNEY, INC.                  568 ANN STREET BIRMINGHAM, MI 48009                  T: 248.644.0990</p>
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<p><b>GARDE MANGER KITCHEN</b>                  ISSUED FOR CONSTRUCTION  <b>FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN</b></p>		<p>PROJECT NO. CDB 810-048-023</p>
<p><b>CITY CENTER CAMPUS</b>  <b>JOLIET JUNIOR COLLEGE</b></p>		<p>DATE DEC. 12, 2014</p>
<p><b>FSE-22</b> OF SHEETS</p>		<p>SHEET NO.</p>



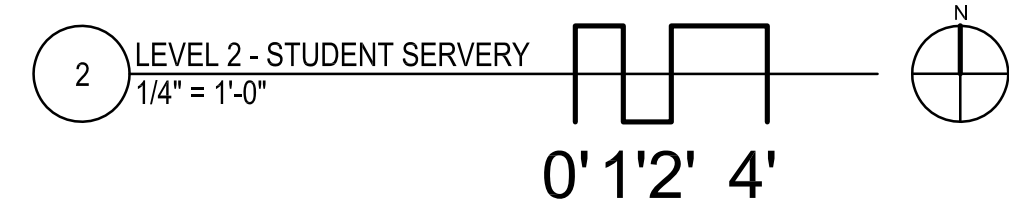
**ELECTRICAL NOTES**

- (E1) THRU (E34) SEE SHEET FSE-16.
- (E95) THRU (E60) SEE SHEET FSE-17.
- (E64) THRU (E105) SEE SHEET FSE-18.
- (E106) THRU (E141) SEE SHEET FSE-19.
- (E142) THRU (E164) SEE SHEET FSE-20.
- (E165) THRU (E195) SEE SHEET FSE-21.
- (E196) THRU (E233) SEE SHEET FSE-22.
- (E234) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD CONTROL SYSTEM. GC TO FURN. & INSTALL CONTROL PANEL & REMOTE TOUCH PANEL. ALL INTER-WIRING & CAT 5 WIRING BY EC. BROADBAND INTERNET CONNECTION BY EC. OUT OF WALL TO HOOD CONTROL PANEL. ALL ADDITIONAL 2 & 3 WIRE INTER-WIRING BY EC. SEE SHEET FSE-42 FOR ALL ADDITIONAL DETAILS.
- (E235) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-24.
- (E236) 4" OCTAGON BOX FURN. & INST'D BY EC. FLUSH IN WALL 48" A.F.F. FOR FIRE SYSTEM REMOTE PULL STATION BY GC. SEE DETAILS ON SHEET FSE-24.
- (E237) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-24.
- (E238) 100.0 AMP SERVICE 120/208V-3ph. COND. CONN. DROP-DOWN THRU HOOD SPACER FOR UTILITY DISTRIBUTION SYSTEM (UDS). UDS PRE-WIRED BY GC W/ FINAL CONN. BY EC.
- (E239) EC TO INTER-WIRE FROM UDS FIRE SYSTEM SHUT-OFF TO HOOD FIRE SYSTEM. SEE DETAILS ON SHEET FSE-41.
- (E240) EC TO INTER-WIRE FROM UDS SWITCH TO HOOD J.B. FOR LIGHTS. HOOD LIGHTS PRE-WIRED BY GC TO J.B. ON TOP. EC TO INTER-WIRE BETWEEN HOOD SECTIONS IN FIELD.
- (E241) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR WALK-IN. ALL SERVICES PRE-WIRED BY GC TO J.B. ON TOP W/ FINAL CONN. BY EC. EC TO INTER-WIRE TO ALL SERVICES IN FIELD.
- (E242) 1.8 AMP (LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR REFRIGERATOR COIL. REFRIGERATOR COIL TO RUN CONTINUOUSLY.
- (E243) 9.6 AMP (LOAD) 208V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR FREEZER COIL. ALL CONTROL WIRING BY EC. FROM CONDENSER TO FREEZER COIL. ALL FINAL CONNS BY EC.
- (E244) SPARE- NOT USED
- (E245) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR GENERAL USE.
- (E246) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR EQUIPMENT USE.
- (E247) 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE DROP-DOWN FROM ABOVE TO 12" A.F.F. FOR COUNTER USE. STRAIN-RELIEF TYPE CORD & PLUG BY EC. SECURE ABOVE FIN. CEILING.
- (E248) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- (E249) 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE RECESSED (CLOCK-TYPE) 18" A.F.F. FOR UNDERCOUNTER FREEZER.
- (E250) 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE RECESSED (CLOCK-TYPE) 18" A.F.F. FOR UNDERCOUNTER REFRIG.
- (E251) 16.0 AMP (LOAD) 208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR ICE CREAM MAKER.
- (E252) SPARE- NOT USED
- (E253) 9.6 KW 208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 66" A.F.F. FOR TURBO-CHEF.
- (E254) 26.0 AMP (LOAD) 208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 45" A.F.F. HORIZONTAL FOR PANINI GRILL.
- (E255) 14.2 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 48" A.F.F. FOR ICE MAKER.
- (E256) 3.9 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE RECESSED (CLOCK-TYPE) 18" A.F.F. FOR UNDERCOUNTER REFRIG.
- (E257) 1.8 KW 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR TOASTER.
- (E258) 6.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR COLD PAN.
- (E259) 100 WATT 120V-1ph. COND. CONN. OUT OF WALL FOR PROTECTO LIGHTS.
- (E260) 20.4 AMP (LOAD) 208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR HOT FOOD WELLS.
- (E261) 750 WATT 120V-1ph. SWITCH FURN. & INST'D BY EC. FLUSH IN WALL 48" A.F.F. FOR TRACK & HEAT LAMPS FURN & INST'D BY GC W/ FINAL CONN. BY EC TO WALL SWITCH.
- (E262) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. DUPLEX RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E263) 12.0 AMP (LOAD) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR COLD PAN). RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E264) EMPTY CONDUIT BY EC- STUB-UP THRU FLOOR FOR DATA LINES- RUN TO OFFICE (VERIFY).
- (E265) 17.9 AMP (LOAD) 208V-1ph. COND. CONN. STUB-UP THRU FLOOR TO HOT FOOD WELLS. FINAL CONN. BY EC TO CONTROL PANEL.
- (E266) 2.42 KW (TOTAL) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR FOR HEAT LAMPS (4).
- (E267) 3 HP, 480V-3ph. COND. CONN. OUT OF WALL FOR DISPOSER. EC TO INTER-WIRE TO CONTROL PANEL & DISPOSER.
- (E268) 23.7 AMP (LOAD) 480V-3ph. COND. CONN. OUT OF WALL FOR DISHWASHER W/ DISCONN. SWITCH FURN. & INST'D BY EC (PER CODE).
- (E269) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR SOAP & RINSE SYSTEM.
- (E270) OMIT- NOT USED
- (E271) 9.8 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE DROP-DOWN FROM ABOVE TO 7'-3" A.F.F. FOR REFRIGERATOR. STRAIN-RELIEF TYPE CORD & PLUG BY EC. SECURE ABOVE FIN. CEILING.
- (E272) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 24" A.F.F. FOR SODA SYSTEM & DISPENSER. VERIFY LOAD & VOLTAGE FOR EQUIPMENT BY USING AGENCY.
- (E273) OMIT- NOT USED
- (E274) 21.7 AMP (LOAD) 120/208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 24" A.F.F. FOR COFFEE MAKER. VERIFY LOAD & VOLTAGE FOR EQUIPMENT BY USING AGENCY.
- (E275) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX FLOOR RECEPTACLE FOR POS. DATA LINES & FLOOR RECEPTACLE BY EC- RUN TO OFFICE (VERIFY).
- (E276) COND. CONN. OUT OF WALL FOR EXHAUST HOOD VFD SYSTEM. ALL INTER-WIRING BY EC- WIRE POWER SUPPLY TO EXHAUST FAN BY MECH. TRADES & WIRE TO HOODS BY GC. VERIFY POWER REQUIREMENTS W/ MECH. ENGINEER. SEE DETAILS ON SHEET FSE-42.

- (E271) 13.2 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 24" A.F.F. FOR TOP ICE MAKER.
- (E270) SPARE- NOT USED

NOTE:  
 ALL ADDITIONAL RECEPTACLES, CONN.'S, WIRING, ETC. TO BE SHOWN BY ELECT. ENGINEER.  
 ALL 120V DUPLEX RECEPTACLES WITHIN KITCHEN AREAS MUST BE GFCI PROTECTED BY EC.  
 EC TO FURN. & INSTALL ALL LINE DISCONNECT SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.  
 EC TO VERIFY EXACT VOLTAGE AND LOAD REQUIREMENTS OF ALL USING AGENCY PROVIDED EQUIPMENT

NOTE:  
 SEE SHEET FSE-24 FOR ALL ELECTRICAL ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

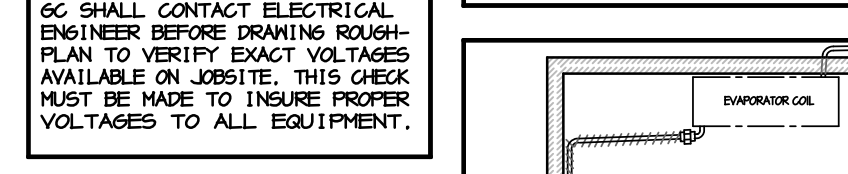
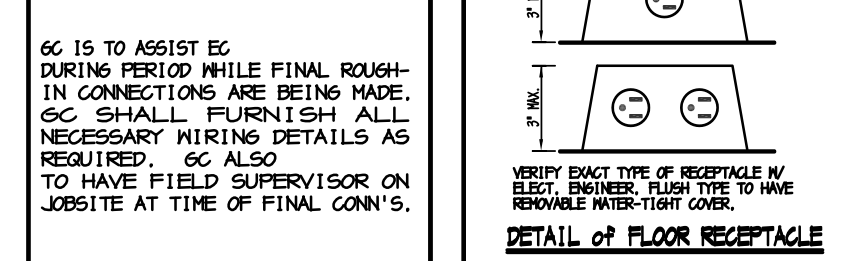
REVISIONS		
NO.	DESCRIPTION	DATE
2	Issued for Construction	07/31/15

 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>STUDENT SERVERY</b> <b>ISSUED FOR CONSTRUCTION</b> <b>FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN</b>	PROJECT NO. CDB 810-048-023
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>	DATE DEC. 12, 2014
<b>FSE-23</b> OF SHEETS	SHEET NO.

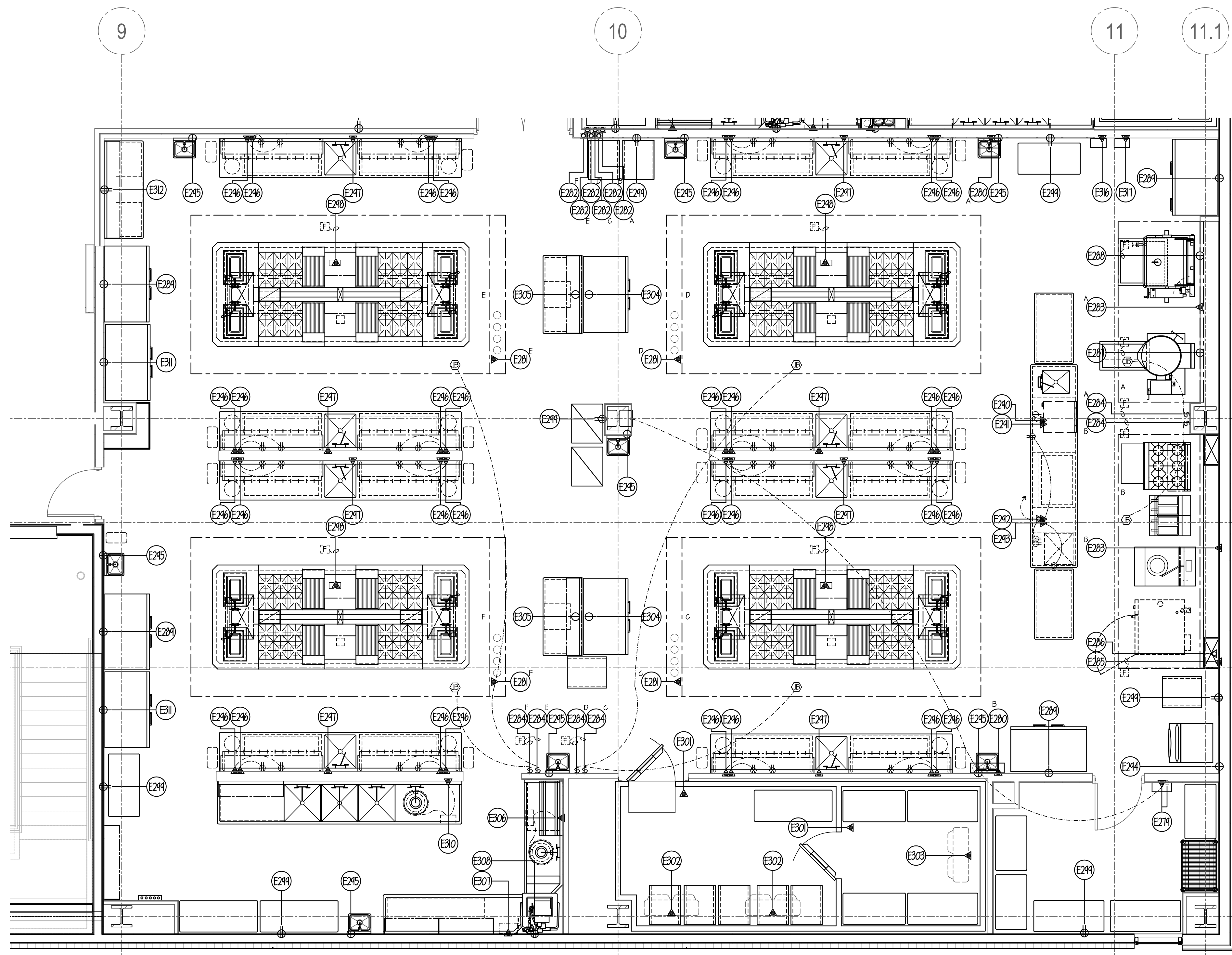
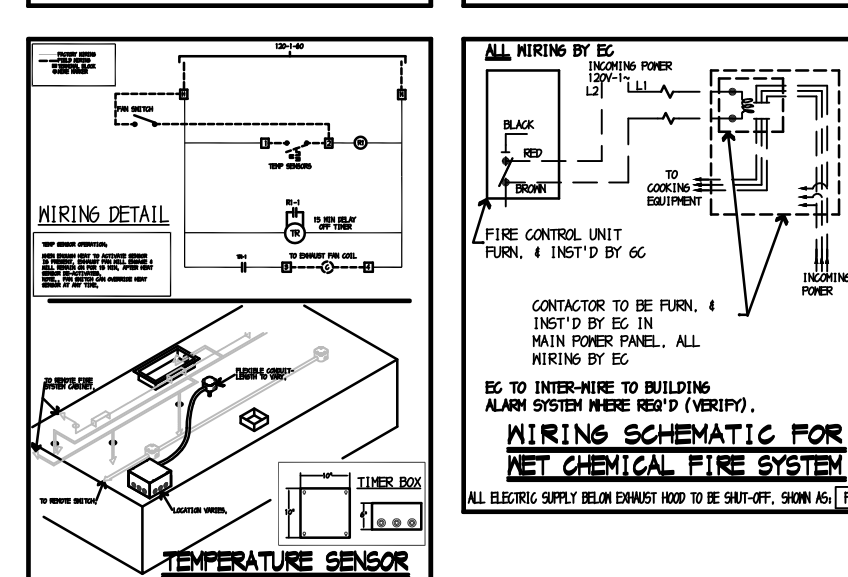
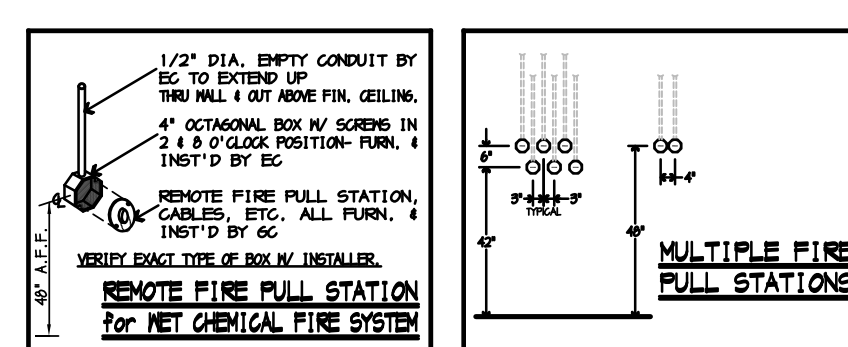


**GENERAL NOTES FOR ROUGH-IN PLAN**  
 THIS PLAN IS TO BE USED FOR BIDDING PURPOSES ONLY & MUST BE REVISION BY GC. USING ARCHITECT'S FINAL WORKING DRAWINGS (ARCH., ELEC., PLUMB. & MECH.). SHALL FURNISH BIDDING DIMENSIONED ROUGH-IN PLAN FOR ELECTRICAL, PLUMBING, VENTILATION & MECHANICAL. PLANS ARE TO BE REVISION & NOT TRACED-OFF OF ORIGINAL DRAWINGS.  
 GC IS TO ASSIST EC DURING PERIOD WHILE FINAL ROUGH-IN CONNECTIONS ARE BEING MADE. GC SHALL FURNISH ALL NECESSARY WIRING DETAILS AS REQUIRED. GC ALSO TO HAVE FIELD SUPERVISOR ON JOBSITE AT TIME OF FINAL CONN'S.  
 GC SHALL CONTACT ELECTRICAL ENGINEER BEFORE DRAWING ROUGH-IN PLAN TO VERIFY EXACT VOLTAGES AVAILABLE ON JOBSITE. THIS CHECK MUST BE MADE TO INSURE PROPER VOLTAGES TO ALL EQUIPMENT.



**ELECTRICAL ROUGH-IN CODE**

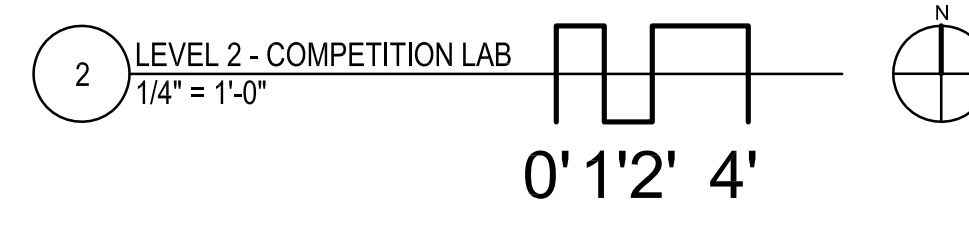
J.B.	JUNCTION BOX
C	CONNECTION
M.C.	MECHANICAL C
N.	NOT
W.C.	WATER C
S.P.	SINGLE PHASE
D.P.	DUPLICATE
D.F.	DUPLICATE FLOOR RECEPTACLE
F.D.	FLOOR RECEPTACLE
F.D.S.	FLOOR DISCONNECT SWITCH
A.F.F.	APPROXIMATE FINISH FLOOR



**ELECTRICAL NOTES**

- (E1) THRU (E4) SEE SHEET FSE-16.
- (E5) THRU (E6) SEE SHEET FSE-17.
- (E6) THRU (E9) SEE SHEET FSE-18.
- (E10) THRU (E14) SEE SHEET FSE-19.
- (E14) THRU (E16) SEE SHEET FSE-20.
- (E16) THRU (E19) SEE SHEET FSE-21.
- (E19) THRU (E23) SEE SHEET FSE-22.
- (E23) THRU (E27) SEE SHEET FSE-23.
- (E27) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD CONTROL SYSTEM. GC TO FURN. & INSTALL CONTROL PANEL & REMOTE TOUCH PANEL. ALL INTER-WIRING & CAT 5 WIRING BY EC. BROADBAND INTERNET CONNECTION BY EC. OUT OF WALL TO HOOD CONTROL PANEL. ALL ADDITIONAL 2 & 3 WIRE INTER-WIRING BY EC. SEE SHEET FSE-19 FOR ALL ADDITIONAL DETAILS.
- (E28) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON THIS SHEET.
- (E28) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON THIS SHEET.
- (E28) 41 OCTAGON BOX FURN. & INST'D BY EC. FLUSH IN WALL 48" A.F.F. FOR FIRE SYSTEM REMOTE PULL STATION BY GC. SEE DETAILS ON THIS SHEET.
- (E28) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL ON THIS SHEET.
- (E28) 15.0 AMP (CIRCUIT) 120V-1ph. SWITCH FURN. & INST'D BY EC. FLUSH IN WALL 48" A.F.F. FOR HOOD HOOD CONTROL BOX PRE-WIRED BY GC W/ FINAL CONN. BY EC. EC TO INTER-WIRE BETWEEN HOOD SECTIONS IN FIELD.
- (E28) 100.0 AMP SERVICE 120/208V-3ph. COND. CONN. OUT OF WALL FOR UTILITY DISTRIBUTION SYSTEM (UDS). UDS PRE-WIRED BY GC W/ FINAL CONN. BY EC.
- (E28) EC TO INTER-WIRE FROM UDS FIRE SYSTEM SHUT-OFF TO HOOD FIRE SYSTEM. SEE DETAILS ON SHEET FSE-16.
- (E28) 10.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL FOR KETTLE.
- (E28) 10.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL FOR BRAISING PAN.
- (E28) 12.2 AMP (LOAD) 120/208V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 7'-3" A.F.F. FOR FREEZER.
- (E28) 30.5 AMP (LOAD) 120/208V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR DISHWASHER). SINGLE RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E28) 16.2 AMP (LOAD TOTAL) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR FOR UNDERCOUNTER REFRIG. (REMOTE).
- (E28) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR A/V EQUIP). RECEPTACLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E28) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (2) TWO DUPLEX RECEPTACLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E28) 14.2 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 48" A.F.F. FOR ICE MAKER.
- (E28) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- (E28) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL TO COUNTER DUPLEX RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E28) 400 WATT 120V-1ph. COND. CONN. OUT OF WALL FOR UNDERCOUNTER REFRIGERATORS (REMOTE).
- (E28) 46.8 AMP (LOAD/TOTAL) 120/208V-1ph. COND. CONN. STUB-UP THRU FLOOR FOR WALDORF.
- (E28) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR GENERAL USE.
- (E30) SPARE- NOT USED
- (E30) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR WALK-IN. ALL SERVICES PRE-WIRED BY GC TO J.B. ON TOP W/ FINAL CONN. BY EC. EC TO INTER-WIRE TO ALL SERVICES IN FIELD.
- (E30) 3.6 AMP (LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR REFRIGERATOR COIL. REFRIGERATOR COIL TO RUN CONTINUOUSLY.
- (E30) 9.6 AMP (LOAD) 208V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR FREEZER COIL. ALL CONTROL WIRING BY EC. FROM CONDENSER TO FREEZER COIL. ALL FINAL CONNS BY EC.
- (E30) 10.1 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE DROP-DOWN FROM ABOVE TO T-6" A.F.F. FOR REFRIGERATOR. STRAIN-RELIEF TYPE CORD & PLUG BY EC. SECURE ABOVE CEILING.
- (E30) 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE DROP-DOWN FROM ABOVE TO 12" A.F.F. FOR COUNTER USE. STRAIN-RELIEF TYPE CORD & PLUG BY EC. SECURE ABOVE CEILING.
- (E30) 3 HP, 480V-3ph. COND. CONN. STUB-OUT OF WALL FOR DISPOSER. EC TO INTER-WIRE TO CONTROL PANEL & DISPOSER.
- (E30) 23.1 AMP (LOAD) 480V-3ph. COND. CONN. OUT OF WALL FOR DISHWASHER. W/ DISCONN. SWITCH FURN. & INST'D BY EC (PER CODE).
- (E30) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR SOAP & RINSE SYSTEM.
- (E30) OMIT- NOT USED
- (E30) 3 HP, 480V-3ph. COND. CONN. OUT OF WALL FOR DISPOSER. EC TO INTER-WIRE TO CONTROL PANEL & DISPOSER.
- (E31) 10.1 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 7'-3" A.F.F. FOR REFRIGERATOR.
- (E31) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR EQUIPMENT USE.
- (E31) OMIT- NOT USED
- (E31) OMIT- NOT USED
- (E31) OMIT- NOT USED
- (E31) COND. CONN. OUT OF WALL FOR EXHAUST HOOD VFD SYSTEM. ALL INTER-WIRING BY EC. WIRE POWER SUPPLY TO EXHAUST FANS BY MECH. TRADES & WIRE TO HOODS BY GC. VERIFY POWER REQUIREMENTS W/ MECH. ENGINEER. SEE DETAILS ON SHEET FSE-19.
- (E31) COND. CONN. OUT OF WALL FOR EXHAUST HOOD VFD SYSTEM. ALL INTER-WIRING BY EC. WIRE POWER SUPPLY TO EXHAUST FANS BY MECH. TRADES & WIRE TO HOODS BY GC. VERIFY POWER REQUIREMENTS W/ MECH. ENGINEER. SEE DETAILS ON SHEET FSE-19.
- (E31) SPARE- NOT USED
- (E31) SPARE- NOT USED

**NOTE.**  
 ALL ADDITIONAL RECEPTACLES, CONN'S, WIRING, ETC. TO BE SHOWN BY ELECT. ENGINEER.  
 ALL 120V DUPLEX RECEPTACLES WITHIN KITCHEN AREAS MUST BE GFCI PROTECTED BY EC.  
 EC TO FURN. & INSTALL ALL LINE DISCONNECT SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.  
 EC TO VERIFY EXACT VOLTAGE AND LOAD REQUIREMENTS OF ALL USING AGENCY PROVIDED EQUIPMENT



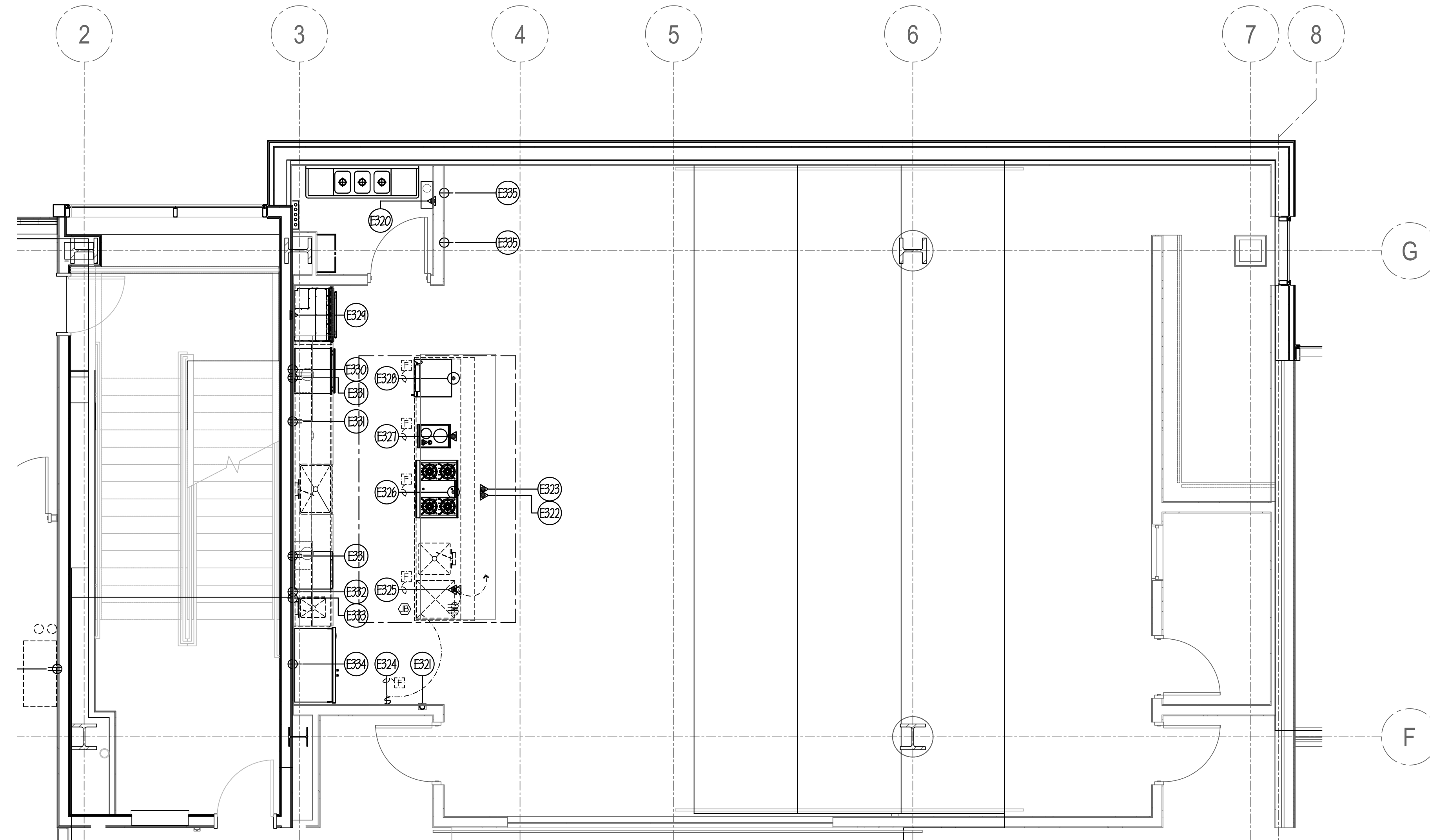
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		NO.	DESCRIPTION	DATE	BY	CHKD
	Issued for Construction			07/31/15		

<p><b>DEMONICA KEMPER ARCHITECTS</b>          125 N. HALSTED STREET, SUITE 301          CHICAGO, IL 60661          P: 312.496.0000</p>	<p><b>KJW ENGINEERING</b>          1100 WARRENVILLE ROAD, #400W          NAPERVILLE, IL 60563          T: 630.527.2320</p>	<p><b>E.F. WHITNEY, INC.</b>          568 ANN STREET          BIRMINGHAM, MI 48009          T: 248.644.0990</p>
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<b>COMPETITION LAB</b>		PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		DATE DEC. 12, 2014
<b>FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN</b>		SHEET NO. <b>FSE-24</b> OF SHEETS
<b>CITY CENTER CAMPUS</b>		
<b>JOLIET JUNIOR COLLEGE</b>		



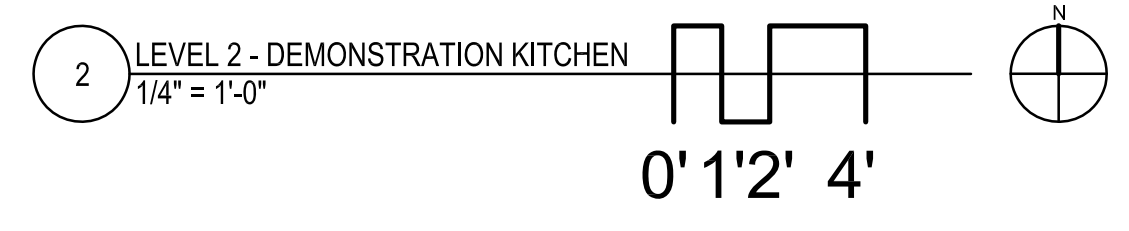


**ELECTRICAL NOTES**

- (E1) THRU (E34) SEE SHEET FSE-16.
- (E35) THRU (E68) SEE SHEET FSE-17.
- (E64) THRU (E102) SEE SHEET FSE-18.
- (E106) THRU (E14) SEE SHEET FSE-19.
- (E142) THRU (E164) SEE SHEET FSE-20.
- (E165) THRU (E195) SEE SHEET FSE-21.
- (E196) THRU (E223) SEE SHEET FSE-22.
- (E234) THRU (E270) SEE SHEET FSE-23.
- (E271) THRU (E30) SEE SHEET FSE-24.
- (E320) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-24.
- (E321) 4" OCTAGON BOX FURN. & INST'D BY EC- FLUSH IN WALL 48" A.F.F. FOR FIRE SYSTEM REMOTE PULL STATION BY GC SEE DETAILS ON SHEET FSE-24.
- (E322) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-24.
- (E323) 2.4 AMP (TOTAL LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR VENTILATED CEILING. ALL INTER-WIRING BY EC- BETWEEN LIGHT PANELS. SEE SHEET FSE-101 FOR DETAILS.
- (E324) 15.0 AMP (CIRCUIT) 120V-1ph. SWITCH FURN. & INST'D BY EC- FLUSH IN WALL 48" A.F.F. FOR VENTILATED CEILING. CONTROL BOX PRE-WIRED BY GC W/ FINAL CONN. BY EC.
- (E325) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER (FOR AV EQUIP). RECEPTACLES PRE-WIRED BY GC TO JB. IN BASE W/ FINAL CONN. BY EC.
- (E326) 15 AMP (CIRCUIT) 120V-1ph. SINGLE FLOOR RECEPTACLE FOR RANGE (GAS).
- (E327) 2.8 KW 208V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COOKTOP.
- (E328) 15 AMP (CIRCUIT) 120V-1ph. SINGLE FLOOR RECEPTACLE FOR WINE COOLER.
- (E329) 30 AMP (CIRCUIT) 208V-1ph. COND. CONN. OUT OF WALL FOR WALL OVEN (SINGLE).
- (E330) 850 WATT 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR HEATED DRAWER.
- (E331) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 34" A.F.F. FOR EQUIPMENT USE.
- (E332) 24/33 AMP (LOAD) 120/208/230V-3ph. SINGLE RECEPTACLE IN WALL 18" A.F.F. FOR EXISTING DISHWASHER.
- (E333) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR HAND SINK (TRANSFORMER).
- (E334) 15 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 60" A.F.F. FOR REFRIG/FREEZER.
- (E335) 12.5 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR HEATED CART.
- (E336) SPARE- NOT USED
- (E337) SPARE- NOT USED

**NOTE:**  
 ALL ADDITIONAL RECEPTACLES, CONN'S, WIRING, ETC. TO BE SHOWN BY ELECT. ENGINEER.  
 ALL 120V DUPLEX RECEPTACLES WITHIN KITCHEN AREAS MUST BE GFCI PROTECTED BY EC.  
 EC TO FURN. & INSTALL ALL LINE DISCONNECT SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.  
 EC TO VERIFY EXACT VOLTAGE AND LOAD REQUIREMENTS OF ALL USING AGENCY PROVIDED EQUIPMENT

**NOTE:**  
 SEE SHEET FSE-24 FOR ALL ELECTRICAL ROUGH-IN DETAILS & SCHEDULES.

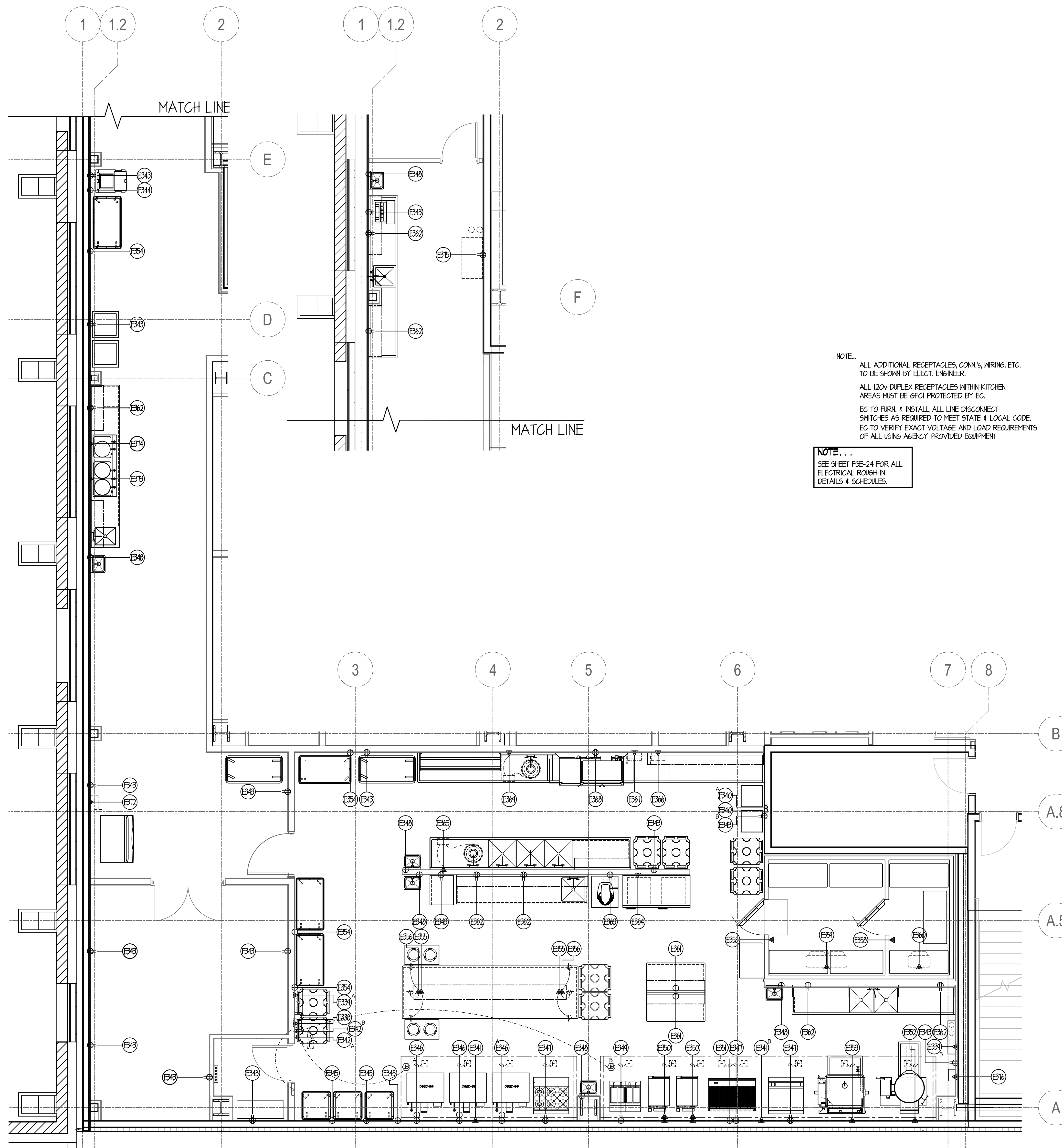


NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<p><b>DEMONICA KEMPER ARCHITECTS</b>          125 N. HALSTED STREET, SUITE 301          CHICAGO, IL 60661          P: 312.496.0000</p>	<p><b>K.J.W. ENGINEERING</b>          1100 WARRENVILLE ROAD, #400W          NAPERVILLE, IL 60563          T: 630.527.2320</p>	<p><b>E.F. WHITNEY, INC.</b>          568 ANN STREET          BIRMINGHAM, MI 48009          T: 248.644.0990</p>
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<b>DEMONSTRATION KITCHEN ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-25</b> OF SHEETS

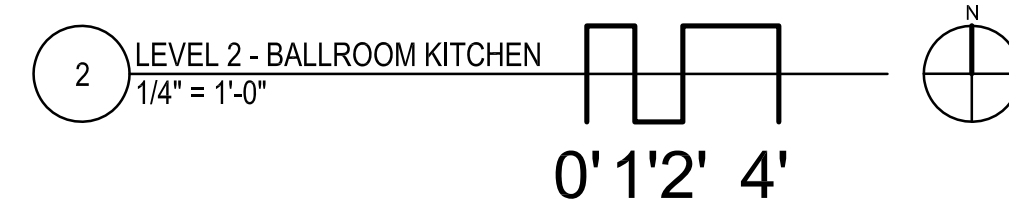


NOTE:  
 ALL ADDITIONAL RECEPTACLES, CONN.'S, WIRING, ETC. TO BE SHOWN BY ELECT. ENGINEER.  
 ALL 120V DUPLEX RECEPTACLES WITHIN KITCHEN AREAS MUST BE GFCI PROTECTED BY EC.  
 EC TO FURN. & INSTALL ALL LINE DISCONNECT SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.  
 EC TO VERIFY EXACT VOLTAGE AND LOAD REQUIREMENTS OF ALL USING AGENCY PROVIDED EQUIPMENT

NOTE:  
 SEE SHEET FSE-24 FOR ALL ELECTRICAL ROUGH-IN DETAILS & SCHEDULES.

**ELECTRICAL NOTES**

- (E1) THRU (E34) SEE SHEET FSE-16.
- (E35) THRU (E69) SEE SHEET FSE-17.
- (E64) THRU (E105) SEE SHEET FSE-18.
- (E106) THRU (E141) SEE SHEET FSE-19.
- (E142) THRU (E164) SEE SHEET FSE-20.
- (E165) THRU (E185) SEE SHEET FSE-21.
- (E196) THRU (E233) SEE SHEET FSE-22.
- (E234) THRU (E270) SEE SHEET FSE-23.
- (E271) THRU (E314) SEE SHEET FSE-24.
- (E315) THRU (E331) SEE SHEET FSE-25.
- (E332) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. OUT OF WALL FOR HOOD CONTROL SYSTEM. GC TO FURN. & INSTALL CONTROL PANEL & REMOTE TOUCH PANEL. ALL INTER-WIRING & CAT 5 WIRING BY EC. BROADBAND INTERNET CONNECTION BY EC. OUT OF WALL TO HOOD CONTROL PANEL. ALL ADDITIONAL 2 & 3 WIRE INTER-WIRING BY EC. SEE SHEET FSE-106 FOR ALL ADDITIONAL DETAILS.
- (E333) 8.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR FIRE SYSTEM SHUT-OFF. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-24.
- (E334) 4" OCTAGON BOX FURN. & INST'D BY EC. FLUSH IN WALL 48" A.F.F. FOR FIRE SYSTEM REMOTE PULL STATION BY GC. SEE DETAILS ON SHEET FSE-24.
- (E335) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR HOOD TEMPERATURE SENSOR. ALL INTER-WIRING BY EC. SEE DETAIL ON SHEET FSE-24.
- (E336) 15.0 AMP (CIRCUIT) 120V-1ph. SWITCH FURN. & INST'D BY EC. FLUSH IN WALL 48" A.F.F. FOR HOOD HOOD CONTROL BOX PRE-WIRED BY GC. SEE DETAILS ON SHEET FSE-24.
- (E337) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR GENERAL USE.
- (E338) 125 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR BANQUET CART.
- (E339) 13.75 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR HEATED CART.
- (E340) (2) TWO 1/2 HP. 120V-1ph. SINGLE RECEPTACLES FLUSH IN WALL FOR CONVECTION OVEN FANS.
- (E341) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR RANGE.
- (E342) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- (E343) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR FRYERS.
- (E344) (2) TWO 15 AMP (CIRCUIT/EACH) 120V-1ph. COND. CONN.'S OUT OF WALL FOR STEAMER CONTROLS.
- (E345) 5.5 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR REFRIG. EQUIP. STAND.
- (E346) 5.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR KETTLE.
- (E347) 5.0 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR BRAISING PAN.
- (E348) 1.98 KM (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR EXISTING BANQUET CARTS
- (E349) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. (2) TWO DUPLEX RECEPTACLES PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E350) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. STUB-UP THRU FLOOR TO COUNTER. (1) ONE DUPLEX RECEPTACLE PRE-WIRED BY GC TO J.B. IN BASE W/ FINAL CONN. BY EC.
- (E351) SPARE - NOT USED
- (E352) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR WALK-IN ALL SERVICES PRE-WIRED BY GC TO J.B. ON TOP W/ FINAL CONN. BY EC. EC TO INTER-WIRE TO ALL SERVICES IN FIELD.
- (E353) 1.8 AMP (LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR REFRIGERATOR COIL. REFRIGERATOR COIL TO RUN CONTINUOUSLY.
- (E354) 7.4 AMP (LOAD) 208V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR FREEZER COIL. ALL CONTROL WIRING BY EC. FROM CONDENSER TO FREEZER COIL. ALL FINAL CONNS BY EC.
- (E355) 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE DROP-DOWN FROM ABOVE TO 12" A.F.F. FOR COUNTER USE. STRAIN-RELIEF TYPE CORD & PLUG BY EC. SECURE ABOVE FIN. CEILING.
- (E356) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR EQUIPMENT USE.
- (E357) 1/2 HP. 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 50" A.F.F. FOR MIXER.
- (E358) 11.4 AMP (LOAD) 120V-1ph. COND. CONN. OUT OF WALL FOR ROLL-IN REFRIGERATOR.
- (E359) 3 HP. 480V-3ph. COND. CONN. OUT OF WALL FOR DISPOSER. EC TO INTER-WIRE TO CONTROL PANEL & DISPOSER.
- (E360) 31.0 AMP (LOAD) 480V-3ph. COND. CONN. OUT OF WALL FOR DISHWASHER W/ DISCONN. SWITCH FURN. & INST'D BY EC (PER CODE).
- (E361) 30.0 KM 480V-3ph. COND. CONN. OUT OF WALL FOR BOOSTER HEATER W/ DISCONN. SWITCH FURN. & INST'D BY EC (PER CODE).
- (E362) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR SOAP & RINSE SYSTEM.
- (E363) 3 HP. 480V-3ph. COND. CONN. OUT OF WALL FOR DISPOSER. EC TO INTER-WIRE TO CONTROL PANEL & DISPOSER.
- (E364) SPARE - NOT USED
- (E365) SPARE - NOT USED
- (E366) 13.2 AMP (LOAD) 208V-3ph. COND. CONN. OUT OF WALL FOR ICE MAKER W/ DISCONN. SWITCH FURN. & INST'D BY EC (PER CODE).
- (E367) 10.0 KM 208V-3ph. COND. CONN. OUT OF WALL FOR COFFEE URN.
- (E368) 1.5 KM 208V-3ph. COND. CONN. OUT OF WALL FOR COFFEE URN.
- (E369) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 24" A.F.F. FOR REMOTE SODA SYSTEM.
- (E370) COND. CONN. OUT OF WALL FOR EXHAUST HOOD VFD SYSTEM. ALL INTER-WIRING BY EC. WIRE POWER SUPPLY TO EXHAUST FANS BY MECH. TRADES & WIRE TO HOODS BY GC. VERIFY POWER REQUIREMENTS W/ MECH. ENGINEER. SEE DETAILS ON SHEET FSE-106.
- (E371) SPARE - NOT USED
- (E372) SPARE - NOT USED
- (E373) SPARE - NOT USED



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

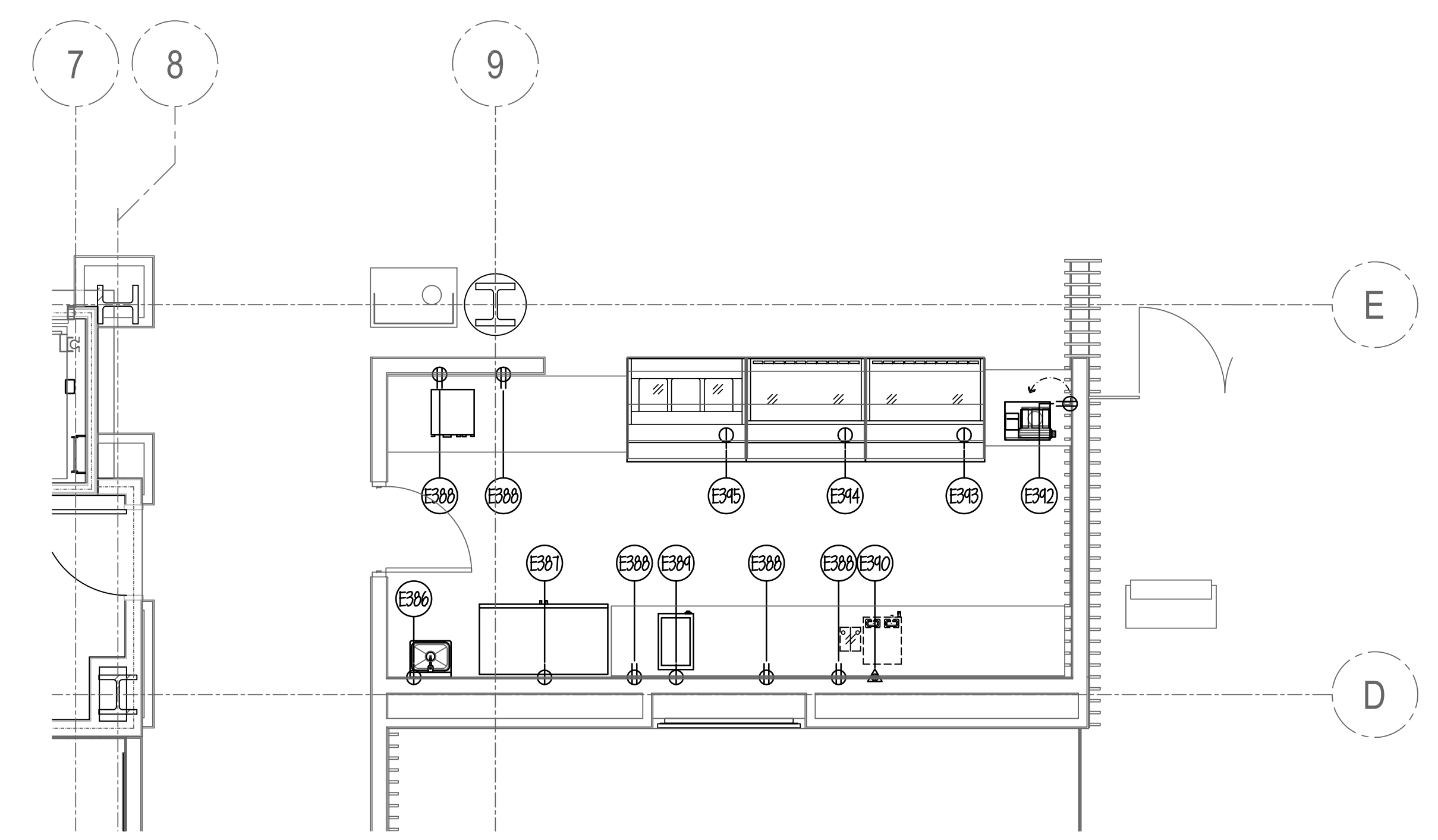
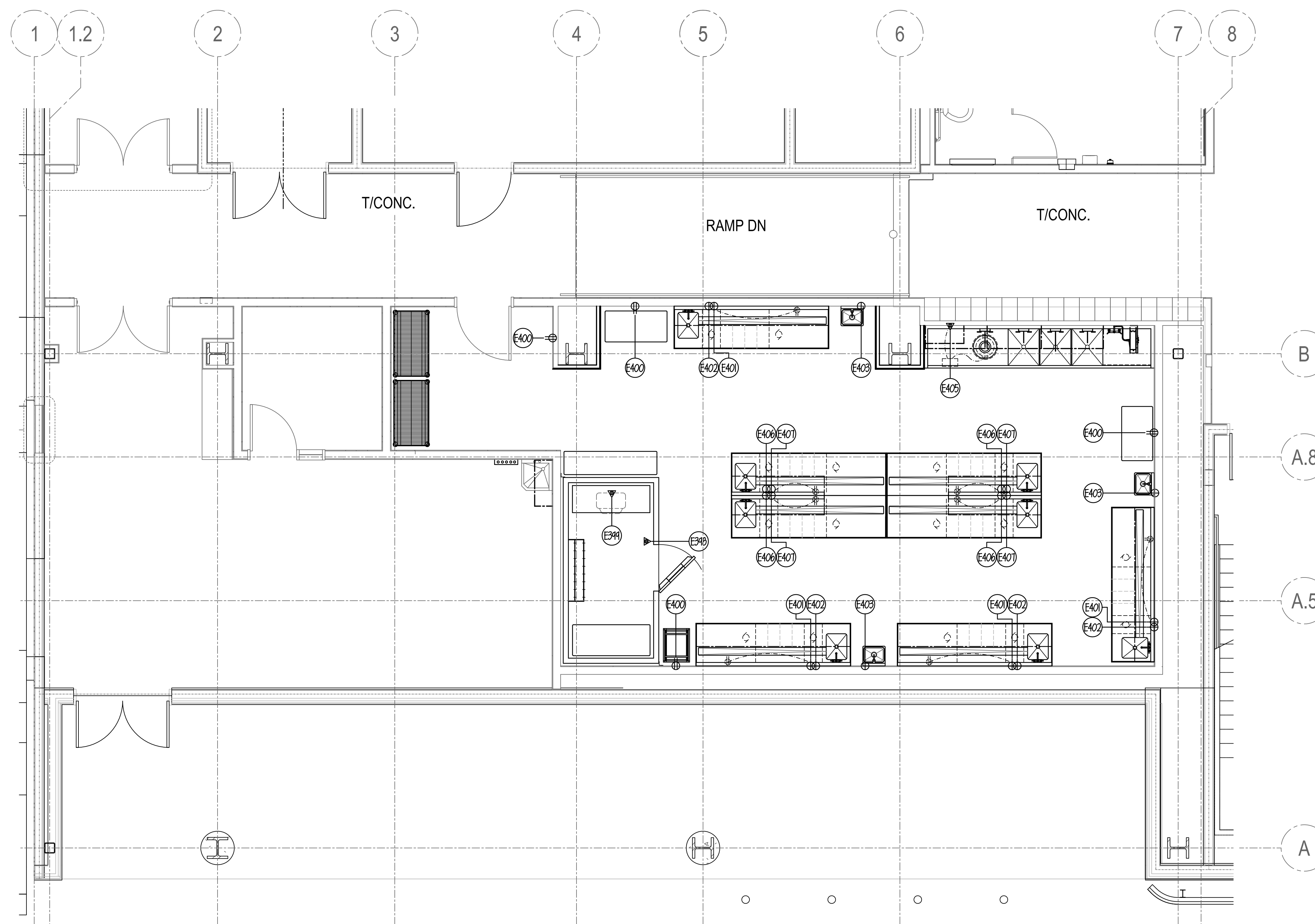
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>BALLROOM KITCHEN</b>	PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>	DATE DEC. 12, 2014
<b>FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN</b>	SHEET NO. <b>FSE-26</b>
<b>CITY CENTER CAMPUS</b>	OF SHEETS
<b>JOLIET JUNIOR COLLEGE</b>	

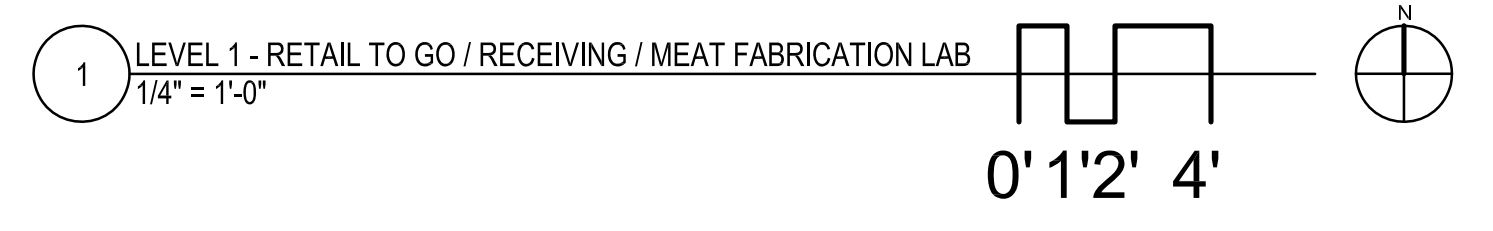


**ELECTRICAL NOTES**

- (E1) THRU (E34) SEE SHEET FSE-16.
- (E35) THRU (E68) SEE SHEET FSE-17.
- (E69) THRU (E102) SEE SHEET FSE-18.
- (E103) THRU (E141) SEE SHEET FSE-19.
- (E142) THRU (E164) SEE SHEET FSE-20.
- (E165) THRU (E195) SEE SHEET FSE-21.
- (E196) THRU (E235) SEE SHEET FSE-22.
- (E236) THRU (E278) SEE SHEET FSE-23.
- (E279) THRU (E318) SEE SHEET FSE-24.
- (E319) THRU (E337) SEE SHEET FSE-25.
- (E338) THRU (E374) SEE SHEET FSE-26.
- (E300) SPARE- NOT USED
- (E381) SPARE- NOT USED
- (E382) SPARE- NOT USED
- (E383) SPARE- NOT USED
- (E384) SPARE- NOT USED
- (E385) SPARE- NOT USED
- (E386) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- (E387) 1.3 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE RECESSED IN WALL (CLOCK-TYPE) 12" A.F.F. FOR DISPLAY REFRIGERATOR.
- (E388) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 43" A.F.F. FOR EQUIPMENT USE.
- (E389) 15.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 43" A.F.F. FOR SOUP WELLS.
- (E390) 24.1 AMP (LOAD) 120/208V-1ph. COND. CONN. OUT OF WALL 43" A.F.F. FOR COFFEE MAKER.
- (E391) SPARE- NOT USED
- (E392) 20 AMP (CIRCUIT) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 28" A.F.F. FOR POS STATION. DATA LINES & RECEPTACLE BY EC- RUN TO OFFICE (VERIFY).
- (E393) 10.5 AMP (LOAD) 120V-1ph. SINGLE FLOOR RECEPTACLE FOR COLD DELI CASE.
- (E394) 1.5 AMP (LOAD) 120V-1ph. SINGLE FLOOR RECEPTACLE FOR DRY DELI CASE.
- (E395) 21.0 AMP (LOAD) 120/208V-1ph. SINGLE FLOOR RECEPTACLE FOR HOT DELI CASE.
- (E396) OMIT- NOT USED
- (E397) SPARE- NOT USED
- (E398) 20 AMP (CIRCUIT) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR WALK-IN. ALL SERVICES PRE-WIRED BY GC TO JB. ON TOP W/ FINAL CONN. BY EC TO INTER-WIRE TO ALL SERVICES IN FIELD.
- (E399) 1.8 AMP (LOAD) 120V-1ph. COND. CONN. DROP-DOWN FROM ABOVE FOR REFRIGERATOR COIL. REFRIGERATOR COIL TO RUN CONTINUOUSLY.
- (E400) 120V-1ph. DUPLEX RECEPTACLE FLUSH IN WALL 18" A.F.F. FOR GENERAL USE.
- (E401) 5.0 AMP (LOAD) & 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE (NEMA 5-30P) FLUSH IN WALL 18" A.F.F. FOR FROST TOP W/ 20 AMP RECEPTACLE.
- (E402) 3.9 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE (NEMA 5-15P) FLUSH IN WALL 18" A.F.F. FOR UNDERCOUNTER REFRIG.
- (E403) 1.0 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE FLUSH IN WALL 12" A.F.F. FOR HAND SINK (TRANSFORMER).
- (E404) SPARE- NOT USED
- (E405) 3 HP. 480V-3ph. COND. CONN. OUT OF WALL FOR DISPOSER. EC TO INTER-WIRE TO CONTROL PANEL & DISPOSER.
- (E406) 5.0 AMP (LOAD) & 20 AMP (CIRCUIT) 120V-1ph. SINGLE RECEPTACLE (NEMA 5-30P) PEDESTAL-TYPE FOR FROST TOP W/ 20 AMP RECEPTACLE.
- (E407) 3.9 AMP (LOAD) 120V-1ph. SINGLE RECEPTACLE (NEMA 5-15P) PEDESTAL-TYPE FOR UNDERCOUNTER REFRIGERATOR.

NOTE:  
 ALL ADDITIONAL RECEPTACLES, CONN.'S, WIRING, ETC. TO BE SHOWN BY ELECT. ENGINEER.  
 ALL 120V DUPLEX RECEPTACLES WITHIN KITCHEN AREAS MUST BE GFCI PROTECTED BY EC  
 EC TO FURN. & INSTALL ALL LINE DISCONNECT SWITCHES AS REQUIRED TO MEET STATE & LOCAL CODE.

NOTE:  
 SEE SHEET FSE-28 FOR ALL ELECTRICAL ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

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DRAWN: GYB  
 PREPARED: XXX  
 TRACED: XXX  
 APPROVED: XXX  
 CHECKED: XXX  
 APPROVED: EFW

**dk** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**KJWW** K.J.W. ENGINEERING  
 1100 WARRENVILLE ROAD, #400W  
 NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET  
 BIRMINGHAM, MI 48009  
 T: 248.644.0990

**RETAIL TO GO / RECEIVING / MEAT FABRICATION LAB**

**ISSUED FOR CONSTRUCTION**

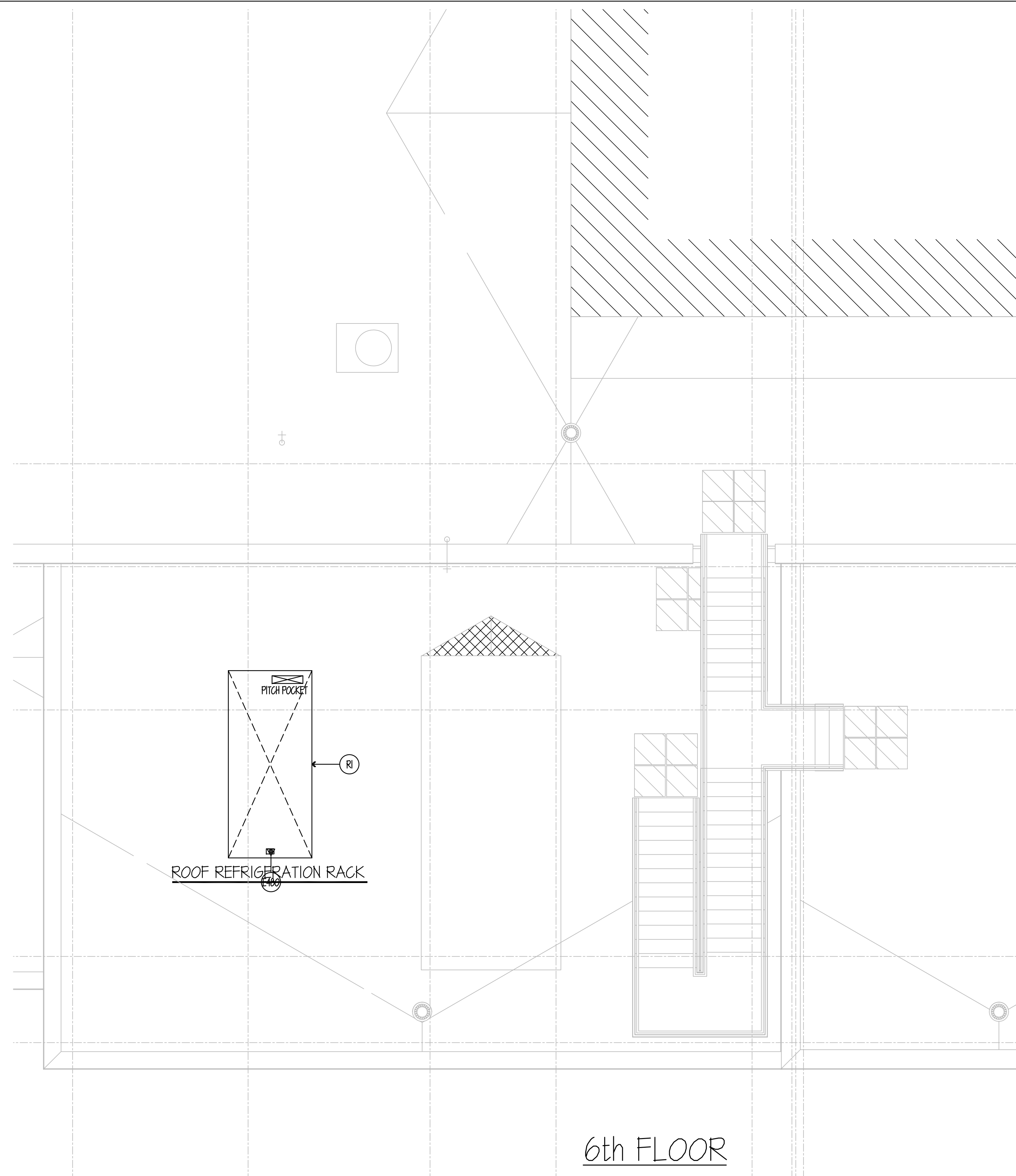
**FOOD SERVICE EQUIPMENT - ELECTRICAL ROUGH-IN PLAN**

**CITY CENTER CAMPUS  
 JOLIET JUNIOR COLLEGE**

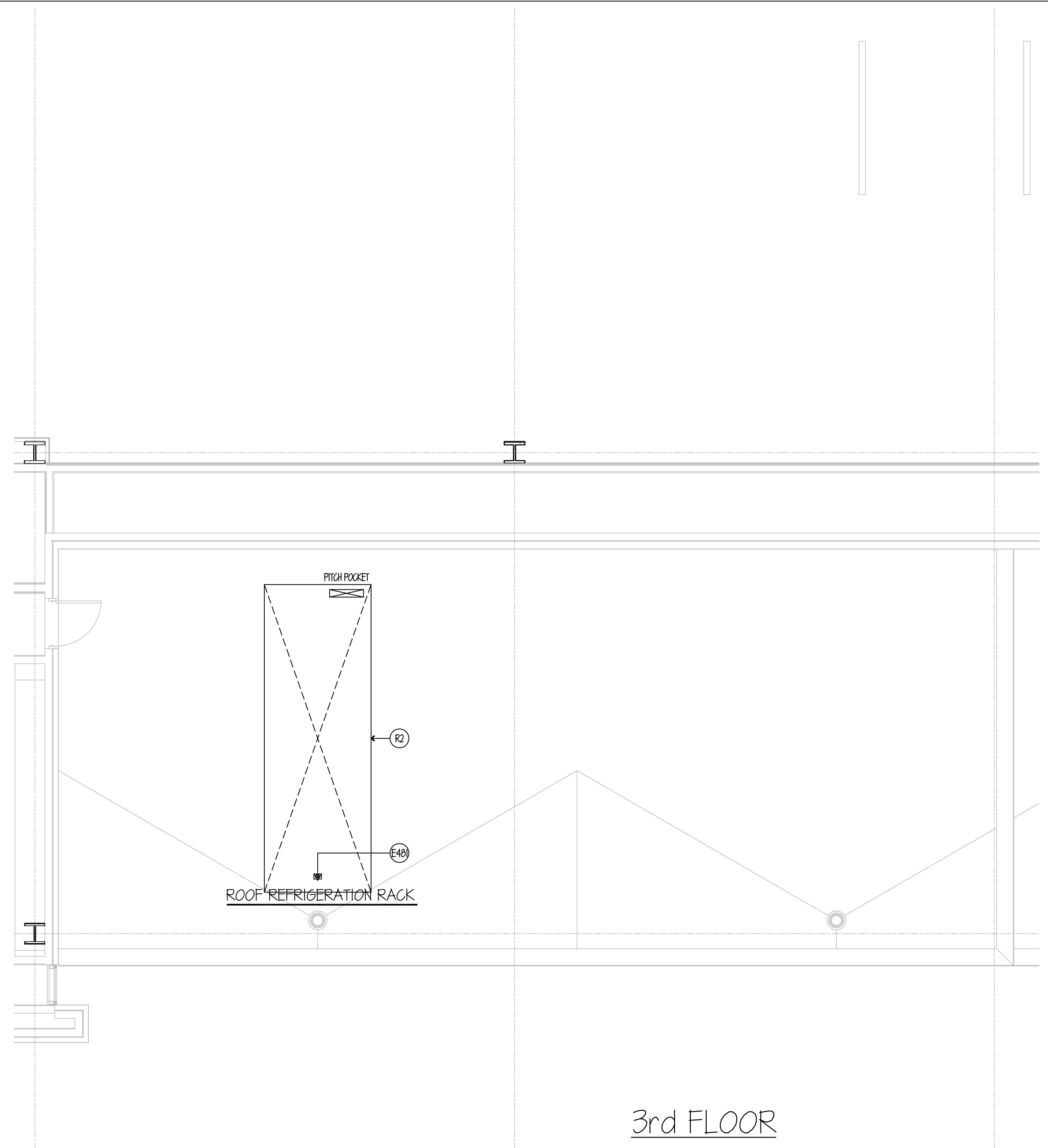
PROJECT NO. CDB 810-048-023  
 DATE DEC. 12, 2014  
 SHEET NO. **FSE-27**  
 OF SHEETS







6th FLOOR



3rd FLOOR

**ELECTRICAL NOTES**

- (E40) 70.4 AMP (TOTAL LOAD) 480V-3ph. COND. CONN. STUB-UP THRU ROOF (WATER-TIGHT) FOR REFRIGERATION RACK (#710). ALL CONTROL WIRING BY EC. SEE DETAILS ON SHEETS FSE-130 & FSE-131.
- (E40) 109.0 AMP (TOTAL LOAD) 480V-3ph. COND. CONN. STUB-UP THRU ROOF (WATER-TIGHT) FOR REFRIGERATION RACK (#711). ALL CONTROL WIRING BY EC. SEE DETAILS ON SHEETS FSE-120 & FSE-121.

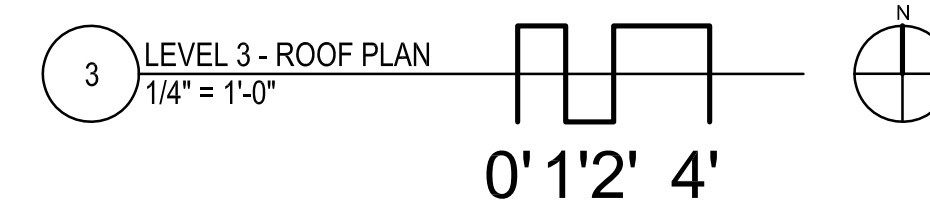
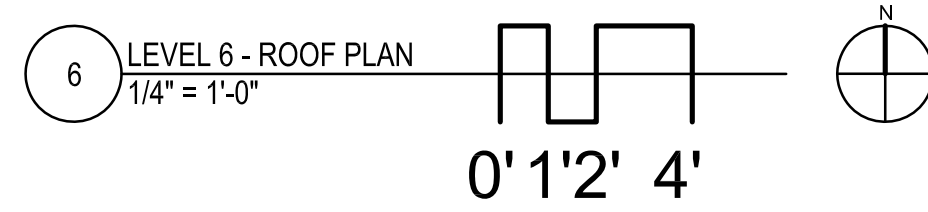
NOTE...  
 ALL ADDITIONAL RECEPTACLES, CONN.'S, WIRING, ETC. TO BE SHOWN BY ELECT. ENGINEER.  
 ALL 120v DUPLEX RECEPTACLES WITHIN KITCHEN AREAS & WITHIN 72" OF A SINK MUST BE GFCI PROTECTED BY EC

**NOTE . . .**  
 SEE SHEET FSE-20 FOR ALL ELECTRICAL ROUGH-IN DETAILS & SCHEDULES.

**REFRIGERATION NOTES**

- (R1) 6" HIGH RAISED PLATFORM FURN. & INST'D BY GC - FOR REFRIGERATION RACK #710 BY GC. APPROX. WEIGHT: 4110 LBS. SEE DETAILS ON SHEETS FSE-130 & FSE-131.
- (R2) 6" HIGH RAISED PLATFORM FURN. & INST'D BY GC - FOR REFRIGERATION RACK #711 BY GC. APPROX. WEIGHT: 7310 LBS. SEE DETAILS ON SHEETS FSE-120 & FSE-121.

NOTE...  
 ALL REFRIGERATION LINE RUNS ARE TO BE SHOWN BY MECHANICAL ENGINEER. ALL REFRIGERATION LINES FURN. & INST'D BY GC (REFRIG. CONTR.)- TO BE IN THE SHORTEST, MOST EFFICIENT RUNS POSSIBLE IN FIELD. ALL REFRIGERATION LINES ABOVE FIN. CEILING TO BE RUN IN CONDUIT PER CODE. VERIFY EXACT TYPE & SIZE REQUIRED.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

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**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

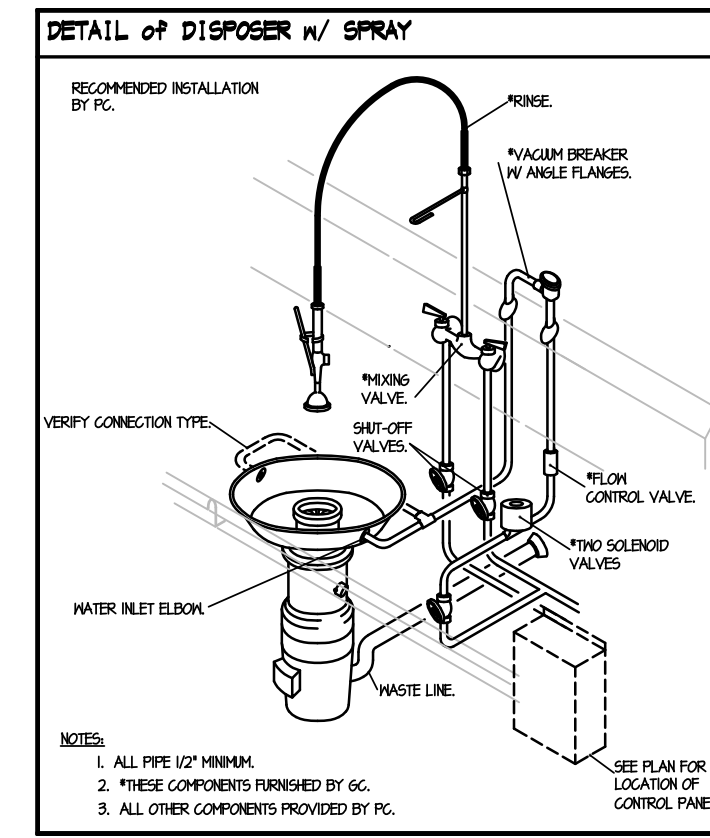
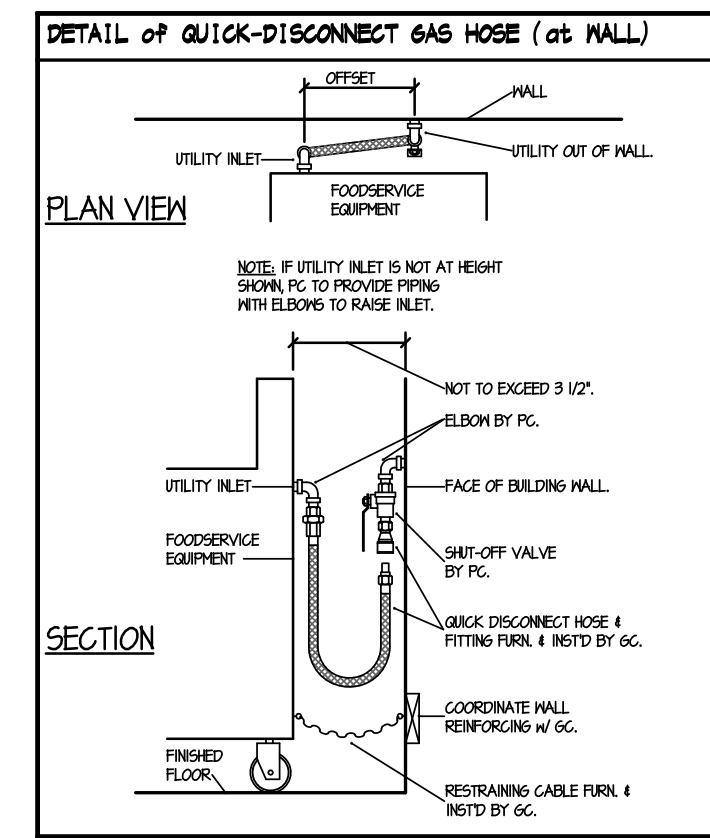
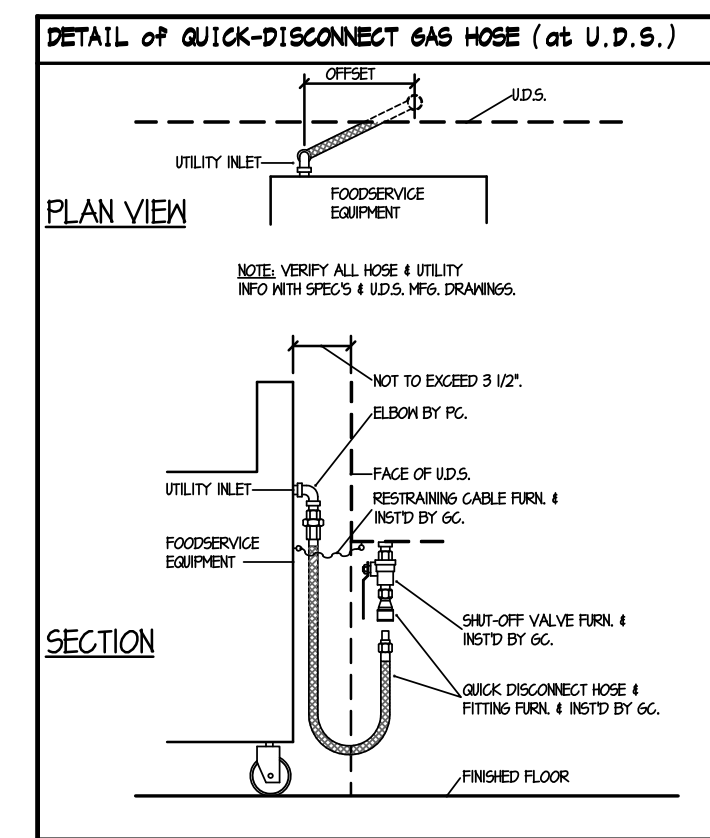
**K J W W** K.J.W. ENGINEERING  
 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET BIRMINGHAM, MI 48009  
 T: 248.644.0990

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

<b>ROOF PLAN</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ROUGH-IN PLAN</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-30</b>		OF SHEETS





**GENERAL NOTES FOR ROUGH-IN PLAN**

THIS PLAN IS TO BE USED FOR BIDDING PURPOSES ONLY & MUST BE REDRAWN BY GC USING ARCHITECTS FINAL WORKING DRAWINGS (ARCH., ELEC., PLUMB., & VENT.). GC SHALL FURNISH FULLY DIMENSIONED ROUGH-IN PLAN FOR ELECTRICAL, PLUMBING, VENTILATION, DEPRESSION & WALL OPENINGS WITHIN 30 DAYS AFTER AWARD OF CONTRACT. PLANS ARE TO BE REDRAWN & NOT TRACED-OFF OF ORIGINAL DRAWINGS.

GC IS TO ASSIST PC DURING PERIOD WHILE FINAL ROUGH-IN CONNECTIONS ARE BEING MADE. GC SHALL FURNISH ALL NECESSARY PIPING DETAILS AS REQUIRED PER GC & PC TO HAVE FIELD SUPERVISOR ON JOBSITE AT TIME OF FINAL CON'Y.

GC SHALL CONTACT PLUMB. ENGINEER BEFORE DRAWING ROUGH-IN PLAN TO VERIFY TYPE OF GAS ON JOBSITE. WHEN STEAM IS AVAILABLE, PRESSURE IS TO BE VERIFIED AND ALL EQUIPMENT TO BE FURNISHED ACCORDINGLY.

**PLUMBING ROUGH-IN CODE**

- H.M. HOT WATER
- C.M. COLD WATER
- W. WHITE
- I.M. INDIRECT WASTE
- F.D. FLOOR DRAIN
- F.T.F.D. FLOOR-TYPE FLOOR DRAIN
- S. FLOOR SINK
- G. GAS (NATURAL)
- A.F.F. ABOVE FINISH FLOOR

SYMBOL DENOTES DRAIN/WASTE/CONDENSATE LINE OF VARIOUS SIZES TO BE INSTALLED BY PC TO RUN FROM EQUIPMENT TO NEAREST F.D./F.S./I.M./H.O. VERIFY EXIST. SIZE WITH FSEC FINAL BUILT-OUT BOOKLET.

**GENERAL NOTE FOR ROUGH-IN PLAN**

ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON WALL SHOULD BE BROUGHT TO THAT POINT CONCEALED IN WALL & STUBBED-OUT AT HEIGHT SHOWN ON THIS PLAN OR GC'S FINAL DIMENSIONED ROUGH-IN PLAN. DO NOT STUB-OUT OF FLOOR & RUN EXPOSED ON WALL.

**FLOOR DRAIN SCHEDULE**

ALL BY EC - TYPICAL SIZES SHOWN

TYPE #1, 4" DIA. W/ FULL NICKEL-BRONZE STRAINER, FLUSH W/ FINISH FLOOR.

TYPE #2, 4" DIA. W/ FULL NICKEL-BRONZE STRAINER & 4" HIGH NICKEL-BRONZE FUNNEL, FLUSH W/ FINISH FLOOR.

TYPE #3, 12" x 12" x 1/2" REP W/ FULL NICKEL-BRONZE GRATE TOP, ACID RESISTANT INTERIOR & REMOVABLE BASKET, FLUSH W/ FINISH FLOOR.

TYPE #4, 12" x 12" x 1/2" REP W/ FULL ST. REPERFORATED GRATE TOP & REMOVABLE ST. REPERFORATED BASKET, FLUSH W/ FINISH FLOOR.

**INDIRECT WASTE SCHEDULE**

ALL BY EC - TYPICAL SIZES SHOWN

TYPE #5, 4" DIA. W/ FULL NICKEL-BRONZE STRAINER & 4" HIGH NICKEL-BRONZE FUNNEL.

TYPE #6, 8" DIA. W/ WHITE FORK-IN INTERIOR & NICKEL-BRONZE INTERIOR DOME STRAINER.

TYPE #7, 12" x 12" x 1/2" REP W/ GRATE TOP W/ ACID RESISTANT INTERIOR & NICKEL-BRONZE INTERIOR DOME STRAINER.

TYPE #8, 12" x 12" x 1/2" REP W/ GRATE TOP W/ ACID RESISTANT INTERIOR & NICKEL-BRONZE INTERIOR DOME STRAINER.

**GENERAL NOTE FOR FIRE SYSTEM**

PC TO FURNISH & INSTALL REMOVABLE 12" SECTION OF PIPE IN MAIN GAS SUPPLY LINE TO KITCHEN COOKING EQUIP. ONLY LOCATED IN AN ACCESSIBLE AREA, AS CLOSE AS POSSIBLE TO COOKING EQUIP. FOR MECHANICAL-TYPE GAS SHUT-OFF VALVE. VALVE TO BE FURNISHED BY GC & INST'D BY PC.

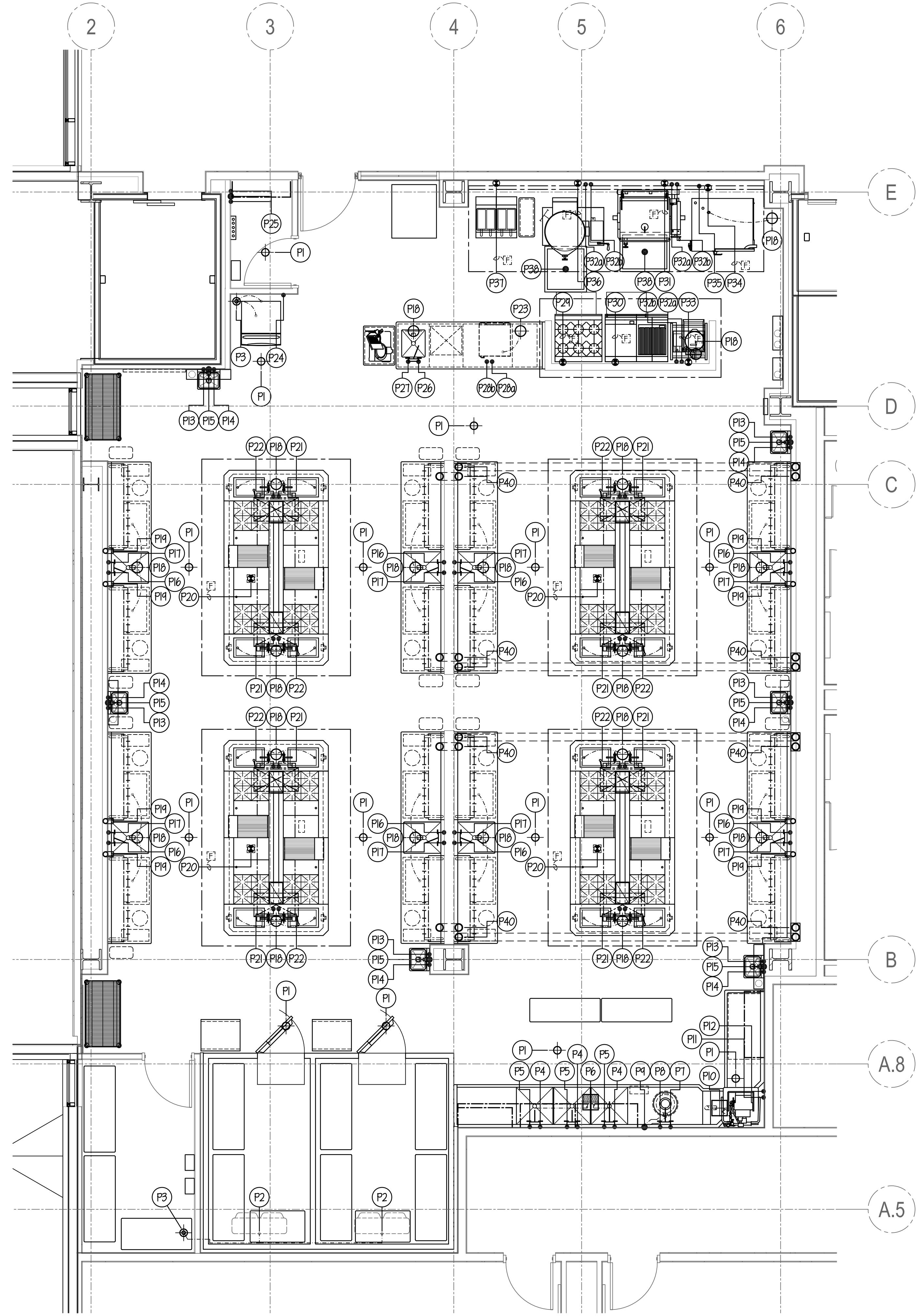
GC TO VERIFY GAS SUPPLY LINE ON JOBSITE AND FURNISH VALVE TO FIT ACCORDINGLY.

ALL GAS SUPPLY BLENDED ROSS TO BE SET OFF, SHOWN AS T.

**WATER REQUIREMENTS**

FOR STEAMERS, KETTLES, DISHWASHERS, ETC.:

TOTAL DISSOLVED SOLIDS: LESS THAN 40 PPM  
 TOTAL ALKALINITY: LESS THAN 20 PPM  
 SILICA: LESS THAN 13 PPM  
 PH FACTOR: 7.0 TO 8.0  
 CHLORINE: LESS THAN 30 PPM



**ALL PRODUCTION KITCHEN 1 EQUIPMENT TO BE BID UNDER ALTERNATE BID G-2**

- PLUMBING NOTES**
- P1 6" DIA. F.D. - TYPE #1. SEE SCHEDULE THIS SHEET. FLUSH W/ FIN. FLOOR.
  - P2 GC TO RUN DRAIN LINE FROM EACH BLOWER COIL TO I.M. NOTE.. GC TO HEAT TAPE ALL LINES THRU FREEZER. SLEEVE BY PC- THRU WALL AS REQ'D FOR DRAIN LINES.
  - P3 6" DIA. I.M. - TYPE #5. SEE SCHEDULE THIS SHEET.
  - P4 3/4" H.H. (140 DEG.) OUT OF WALL FOR POT SINK FAUCET.
  - P5 3/4" C.M. OUT OF WALL FOR POT SINK FAUCET.
  - P6 12" x 12" I.M. - TYPE #8. SEE SCHEDULE THIS SHEET. W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
  - P7 1/2" H.H. OUT OF WALL FOR SPRAY ASSEMBLY.
  - P8 1/2" C.M. OUT OF WALL, PC TO BRANCH TO DISPOSER, SPRAY ASSEMBLY, SOLENOID & VACUUM BREAKER AS REQUIRED.
  - P9 3" WASTE OUT OF WALL FOR DISPOSER. 1/4" FT. MIN. SLOPE REQ'D. NOTE.. RUN TO SOLIDS COLLECTOR AND/OR G.T.
  - P10 12" x 12" I.M. - TYPE #1. SEE SCHEDULE THIS SHEET. PC TO RUN 1-1/2" DRAIN LINE FROM DISHWASHER TO I.M. (30 G.P.M. MAX.)- RUN TO CENTRAL GREASE TRAP.
  - P11 1" H.H. (140 DEG.) OUT OF WALL FOR DISHWASHER. (42.9 GAL./HR. MAX @ 20 PSI).
  - P12 1/2" C.M. OUT OF WALL FOR DISHWASHER DRAIN WATER TEMPERING KIT.
  - P13 1/2" H.H. OUT OF WALL FOR HAND SINK FAUCET.
  - P14 1/2" C.M. OUT OF WALL FOR HAND SINK FAUCET.
  - P15 1-1/2" WASTE OUT OF WALL FOR HAND SINK.
  - P16 1/2" H.H. OUT OF WALL FOR SINK FAUCET.
  - P17 1/2" C.M. OUT OF WALL FOR SINK FAUCET.
  - P18 8 1/2" DIA. I.M. - TYPE #6. SEE SCHEDULE THIS SHEET.
  - P19 4" I.D. PVC PIPE FURN. & INST'D BY PC- DOWN THRU WALL FROM ABOVE FIN. CEILING & OUT OF WALL 6" A.F.F. W/ SMOOTH RADIUS BENDS (NO 90'S) FOR REFRIGERATION LINES BY GC
  - P20 1-1/2" GAS (802 MBTU) STUB-UP THRU FLOOR TO WALDORF. WALDORF ALL PRE-PIPED BY GC W/ FINAL CONNECTION & SHUT-OFF VALVE FURN. & INST'D BY GC.
  - P21 3/4" H.H. UP FROM FLOOR FOR WALDORF SINK FAUCETS (2).
  - P22 3/4" C.M. UP FROM FLOOR FOR WALDORF SINK FAUCETS (2).
  - P23 8-1/2" DIA. I.M. - TYPE #6. SEE SCHEDULE THIS SHEET. PC TO RUN 3/4" DRAIN LINE FROM DISHWASHER TO I.M. (4.0 G.P.M. MAX.)- RUN TO CENTRAL GREASE TRAP.
  - P24 3/4" C.M. OUT OF WALL FOR ICE MAKER W/ FILTER SYSTEM FURN. BY GC & INST'D BY PC.
  - P25 MOP SINK & ALL SERVICES BY PC.
  - P26 1/2" H.H. UP FROM FLOOR FOR SINK FAUCET.
  - P27 1/2" C.M. UP FROM FLOOR FOR SINK FAUCET.
  - P28a 3/4" H.H. (140 DEG.) UP FROM FLOOR FOR W/C DISHWASHER. (22.2 GAL./HR. MAX @ 20 PSI).
  - P28b 1/2" C.M. UP FROM FLOOR FOR W/C DISHWASHER (TEMPERING SYS).
  - P29 1" GAS (215,000 BTU) OUT OF WALL FOR RANGE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - P30 1" GAS (155,000 BTU) OUT OF WALL FOR RANGE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - P31 1" GAS (144,000 BTU) OUT OF WALL FOR TILT BRAISING PAN W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - P32a 1/2" H.H. OUT OF WALL FOR FILL FAUCET.
  - P32b 1/2" C.M. OUT OF WALL FOR FILL FAUCET.
  - P33 3/4" GAS (106,000 BTU) OUT OF WALL FOR EXISTING COMBI-OVENS. FLEX HOSES BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - P34 3/4" C.M. OUT OF WALL FOR COMBI-OVEN. PC BRANCH TO TWO (2) CONNECTIONS AS REQUIRED. FILTER SYSTEM FURN. BY GC & INST'D BY GC. SEE CONDITIONED WATER NOTE THIS SHEET.
  - P35 1/2" GAS (33,000 BTU) OUT OF WALL FOR TILT KETTLE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - P36 1" GAS (150,000 BTU) OUT OF WALL FOR TILT KETTLE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - P37 1" GAS (244,000 BTU) OUT OF WALL FOR FRYERS W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - P38 3" WASTE 4" BELOW FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY PC. SEE DETAIL ON SHEET P5E-45- RUN TO CENTRAL GREASE TRAP (VERIFY).
  - P39 12" x 12" I.M. - TYPE #1. SEE SCHEDULE THIS SHEET.
  - P40 PC TO FURN. & INSTALL: 6" I.D. PVC PIPE DOWN THRU WALL FROM ABOVE FIN. CEILING INTO 14" x 14" ACCESS BOX FLUSH IN WALL 6" A.F.F. & 6" I.D. PVC PIPE OUT OF BOX- RUN BELOW FIN. FLOOR & STUB-UP 3" A.F.F. WHERE SHOWN FOR REFRIGERATION LINES BY GC 2ND PIPE TO RUN BELOW FLOOR & STUB-UP 3" A.F.F. WHERE SHOWN FOR REFRIGERATION LINES (CONTD) BY GC

**NOTE..**

PC TO RUN ALL DRAIN/WASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./F.S./I.M./H.O.

ALL PIPING, DRAINS, F.D.'S, ETC. TO BE SHOWN BY MECH. ENGINEER.

ALL P.R.V.'S, ATMOSPHERIC V.B.'S, V.B.'S, SHUT-OFF VALVES, SHOCK-STOPS, ETC., TO BE FURN. & INST'D BY PC OR HC



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

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NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**K J W W** KJWW ENGINEERING  
 1100 WARRENVILLE ROAD, #400W  
 NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET  
 BIRMINGHAM, MI 48009  
 T: 248.644.0990

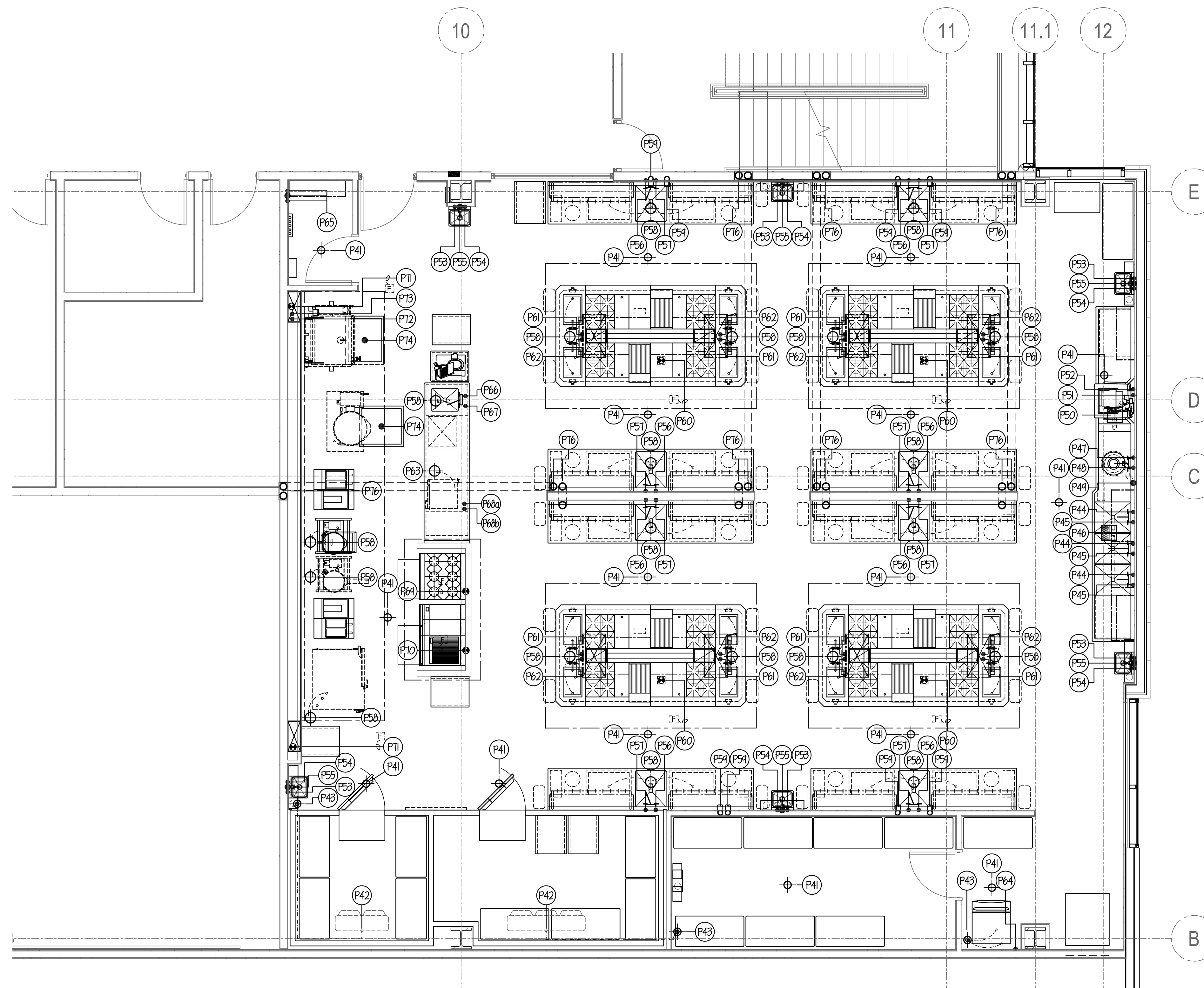
**PRODUCTION KITCHEN 1  
 ISSUED FOR CONSTRUCTION**

**FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN**

**CITY CENTER CAMPUS  
 JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
 DATE DEC. 12, 2014  
 SHEET NO. **FSE-31**  
 OF SHEETS



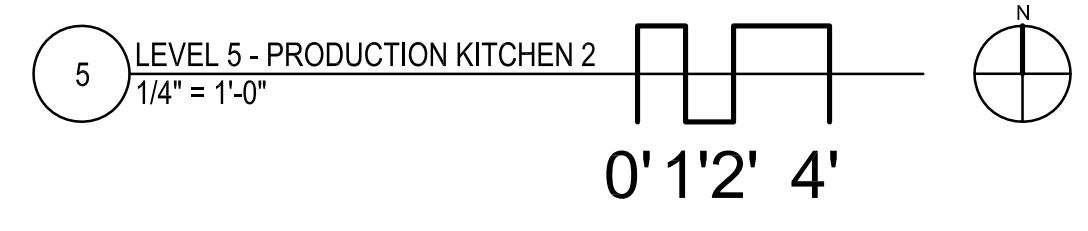


**PLUMBING NOTES**

- (P41) 6" DIA. F.D. - TYPE #1. SEE SCHEDULE ON SHEET FSE-31. FLUSH W/ FIN. FLOOR.
- (P42) GC TO RUN DRAIN LINE FROM EACH BLOWER COIL TO U/I. NOTE... GC TO HEAT TAPE ALL LINES THRU FREEZER. SLEEVE BY PC- THRU WALL AS REQ'D FOR DRAIN LINES.
- (P43) 6" DIA. U/I - TYPE #5. SEE SCHEDULE ON SHEET FSE-31.
- (P44) 3/4" H.H. (140 deg.) OUT OF WALL FOR POT SINK FAUCET.
- (P45) 3/4" C.N. OUT OF WALL FOR POT SINK FAUCET.
- (P46) 12" X 12" U/I - TYPE #9. SEE SCHEDULE ON SHEET FSE-31. W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
- (P47) 1/2" H.H. OUT OF WALL FOR SPRAY ASSEMBLY.
- (P48) 1/2" C.N. OUT OF WALL, PC TO BRANCH TO DISPOSER, SPRAY ASSEMBLY, SOLENOID & VACUUM BREAKER AS REQUIRED.
- (P49) 3" WASTE OUT OF WALL FOR DISPOSER. 1/4" FT. MIN. SLOPE REQ'D. NOTE... RUN TO SOLIDS COLLECTOR AND/OR G.T.
- (P50) 12" X 12" U/I - TYPE #7. SEE SCHEDULE ON SHEET FSE-31. PC TO RUN 1-1/2" DRAIN LINE FROM DISHWASHER TO U/I. (30 G.P.M. MAX.) - RUN TO CENTRAL GREASE TRAP.
- (P51) 1" H.H. (140 deg.) OUT OF WALL FOR DISHWASHER. (42.9 GAL./HR. MAX @ 20 PSI).
- (P52) 1/2" C.N. OUT OF WALL FOR DISHWASHER DRAIN WATER TEMPERING KIT.
- (P53) 1/2" H.H. OUT OF WALL FOR HAND SINK FAUCET.
- (P54) 1/2" C.N. OUT OF WALL FOR HAND SINK FAUCET.
- (P55) 1-1/2" WASTE OUT OF WALL FOR HAND SINK.
- (P56) 1/2" H.H. OUT OF WALL FOR SINK FAUCET.
- (P57) 1/2" C.N. OUT OF WALL FOR SINK FAUCET.
- (P58) 8 1/2" DIA. U/I - TYPE #6. SEE SCHEDULE ON SHEET FSE-31.
- (P59) 4" I.D. PVC PIPE FURN. & INST'D BY PC- DOWN THRU WALL FROM ABOVE FIN. CEILING & OUT OF WALL 6" A.F.F. W/ SMOOTH RADIUS BENDS (NO 90'S) FOR REFRIGERATION LINES BY GC.
- (P60) 1-1/2" GAS (802 MBTU) STUB-UP THRU FLOOR TO WALDORF. WALDORF ALL PRE-PIPED BY GC W/ FINAL CONNECTION & SHUT-OFF VALVE FURN. & INST'D BY PC.
- (P61) 3/4" H.H. UP FROM FLOOR FOR WALDORF SINK FAUCETS (2).
- (P62) 3/4" C.N. UP FROM FLOOR FOR WALDORF SINK FAUCETS (2).
- (P63) 8-1/2" DIA. U/I - TYPE #6. SEE SCHEDULE ON SHEET FSE-31. PC TO RUN 3/4" DRAIN LINE FROM DISHWASHER TO U/I. (4.0 G.P.M. MAX.) - RUN TO CENTRAL GREASE TRAP.
- (P64) 3/4" C.N. OUT OF WALL FOR ICE MAKER W/ FILTER SYSTEM FURN. BY GC & INST'D BY PC.
- (P65) MOP SINK & ALL SERVICES BY PC.
- (P66) 1/2" H.H. UP FROM FLOOR FOR SINK FAUCET.
- (P67) 1/2" C.N. UP FROM FLOOR FOR SINK FAUCET.
- (P68) 3/4" H.H. (140 deg.) UP FROM FLOOR FOR U/I DISHWASHER. (22.2 GAL./HR. MAX @ 20 PSI).
- (P69) 1/2" C.N. UP FROM FLOOR FOR U/I DISHWASHER (TEMPERING SYS).
- (P6A) 1" GAS (215,000 BTU) OUT OF WALL FOR RANGE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY PC.
- (P70) 1" GAS (155,000 BTU) OUT OF WALL FOR RANGE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY PC.
- (P71) 1 1/2" LOOPED GAS - DOWN FROM ABOVE - TO UTILITY DISTRIBUTION SYSTEM (U.D.S.). U/D.S. ALL PRE-PIPED BY GC - READY FOR FINAL CONNECTIONS BY PC. SEE DETAILS ON SHEET FSE-13.
- (P72) 1" H.H.
- (P73) 1" C.N.
- (P74) 3" WASTE 1" BELOW FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY PC. SEE DETAIL ON SHEET FSE-45 - RUN TO CENTRAL GREASE TRAP.
- (P75) 12" X 12" U/I - TYPE #7. SEE SCHEDULE ON SHEET FSE-31.
- (P76) PC TO FURN. & INSTALL: 6" I.D. PVC PIPE DOWN THRU WALL FROM ABOVE FIN. CEILING INTO 14" X 14" ACCESS BOX FLUSH IN WALL 6" A.F.F. & 6" I.D. PVC PIPE OUT OF BOX - RUN BELOW FIN. FLOOR & STUB-UP 3" A.F.F. WHERE SHOWN FOR REFRIGERATION LINES BY GC. 2ND PIPE TO RUN BELOW FLOOR & STUB-UP 3" A.F.F. WHERE SHOWN FOR REFRIGERATION LINES (CONT'D) BY GC.
- (P77) SPARE - NOT USED
- (P78) SPARE - NOT USED
- (P79) SPARE - NOT USED
- (P80) SPARE - NOT USED

NOTE...  
 PC TO RUN ALL DRAINWASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./F.S./U/I/H.O.  
 ALL PIPING, DRAINS, F.D.'S, ETC. TO BE SHOWN BY MECH. ENGINEER.  
 ALL P.R.V.'S, ATMOSPHERIC V.B.'S, V.B.'S, SHUT-OFF VALVES, SHOCK-STOPS, ETC., TO BE FURN. & INST'D BY PC.

NOTE...  
 SEE SHEET FSE-31 FOR ALL PLUMBING ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
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DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

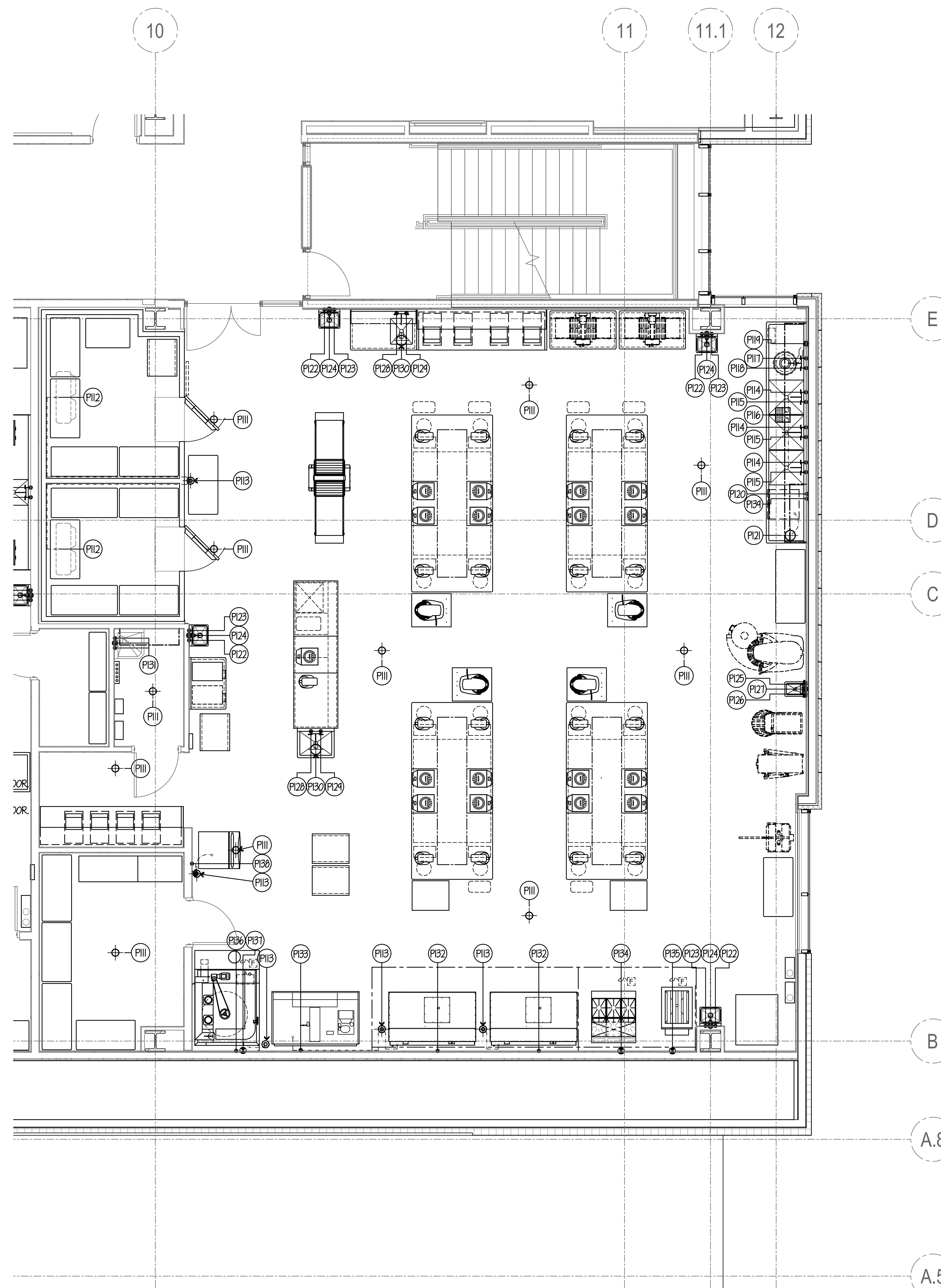
**K J W W** K.J.W. ENGINEERING  
 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET BIRMINGHAM, MI 48009  
 T: 248.644.0990

<b>PRODUCTION KITCHEN 2</b>		PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		DATE DEC. 12, 2014
<b>FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN</b>		SHEET NO. <b>FSE-32</b>
<b>CITY CENTER CAMPUS</b>		OF SHEETS
<b>JOLIET JUNIOR COLLEGE</b>		





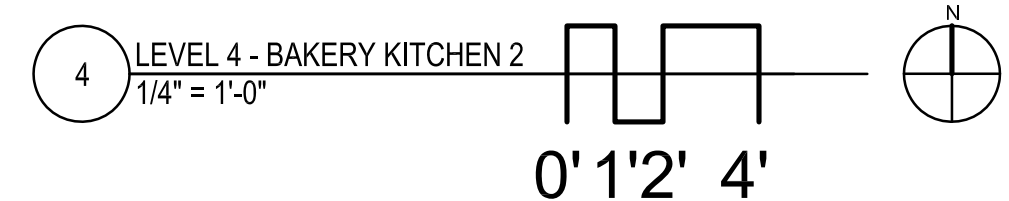


**PLUMBING NOTES**

- P111 6" DIA. F.D.- TYPE #1. SEE SCHEDULE THIS SHEET. FLUSH W/ FIN. FLOOR.
- P112 GC TO RUN DRAIN LINE FROM EACH BLOWER COIL TO 1M. NOTE... GC TO HEAT TAPE ALL LINES THRU FREEZER.
- P113 6" DIA. 1M- TYPE #5. SEE SCHEDULE THIS SHEET.
- P114 3/4" H.M. (40 deg.) OUT OF WALL FOR POT SINK FAUCET.
- P115 3/4" C.M. OUT OF WALL FOR POT SINK FAUCET.
- P116 12" x 12" 1M- TYPE #8. SEE SCHEDULE THIS SHEET. W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
- P117 1/2" H.M. OUT OF WALL FOR SPRAY ASSEMBLY.
- P118 1/2" C.M. OUT OF WALL. PG TO BRANCH TO DISPOSER, SPRAY ASSEMBLY, SOLENOID & VACUUM BREAKER AS REQUIRED.
- P119 3" WASTE OUT OF WALL FOR DISPOSER. 1/4" FT. MIN. SLOPE REQ'D. NOTE... RUN TO SOLIDS COLLECTOR AND/OR G.T.
- P120 1" H.M. (40 deg.) OUT OF WALL FOR U/G DISHWASHER. (22.2 GAL./HR. MAX @ 20 PSI).
- P121 Ø 1/2" DIA. 1M- TYPE #6. SEE SCHEDULE THIS SHEET. PG TO RUN 3/4" DRAIN LINE FROM DISHWASHER TO 1M. (4.0 G.P.M. MAX.)- RUN TO CENTRAL GREASE TRAP.
- P122 1/2" H.M. OUT OF WALL FOR HAND SINK FAUCET.
- P123 1/2" C.M. OUT OF WALL FOR HAND SINK FAUCET.
- P124 1 1/2" WASTE OUT OF WALL FOR HAND SINK.
- P125 3/4" H.M. OUT OF WALL FOR WATER METER.
- P126 3/4" C.M. OUT OF WALL FOR WATER METER.
- P127 1 1/2" WASTE OUT OF WALL FOR DRIP SINK.
- P128 1/2" H.M. UP FROM FLOOR FOR SINK FAUCET.
- P129 1/2" C.M. UP FROM FLOOR FOR SINK FAUCET.
- P130 Ø 1/2" DIA. 1M- TYPE #6. SEE SCHEDULE THIS SHEET.
- P131 MOP SINK & ALL SERVICES BY PG.
- P132 3/4" C.M. OUT OF WALL FOR DECK OVEN. SEE CONDITIONED WATER NOTE THIS SHEET.
- P133 1/2" C.M. OUT OF WALL FOR PROOFER/RETARDER. SEE CONDITIONED WATER NOTE THIS SHEET.
- P134 1" GAS (283,000 BTU) OUT OF WALL. PG TO BRANCH TO RANGE & BACKSHELF BROILER AS REQ'D. FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY HC.
- P135 1/2" GAS (66,000 BTU) OUT OF WALL FOR EXISTING DONUT FRYER W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY HC.
- P136 1/2" C.M. OUT OF WALL FOR ROTARY OVEN. SEE CONDITIONED WATER NOTE THIS SHEET.
- P137 1" GAS (180,000 BTU) OUT OF WALL FOR ROTARY OVEN W/ ALL PIPING & SHUT-OFF VALVE BY HC.
- P138 3/4" C.M. OUT OF WALL FOR ICE MAKER W/ FILTER SYSTEM FURN. BY GC & INST'D BY PG.
- P139 1/2" C.M. OUT OF WALL FOR U/G DISHWASHER.
- P140 SPARE - NOT USED

NOTE...  
 PG TO RUN ALL DRAIN/WASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./F.S./1M/H.O.  
 ALL PIPING, DRAINS, F.D.'S, ETC. TO BE SHOWN BY MECH. ENGINEER.  
 ALL P.R.V.'S, ATMOSPHERIC V.B.'S, V.B.'S, SHUT-OFF VALVES, SHOCK-STOPS, ETC., TO BE FURN. & INST'D BY PG OR HC

**NOTE...**  
 SEE SHEET FSE-33 FOR ALL PLUMBING ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

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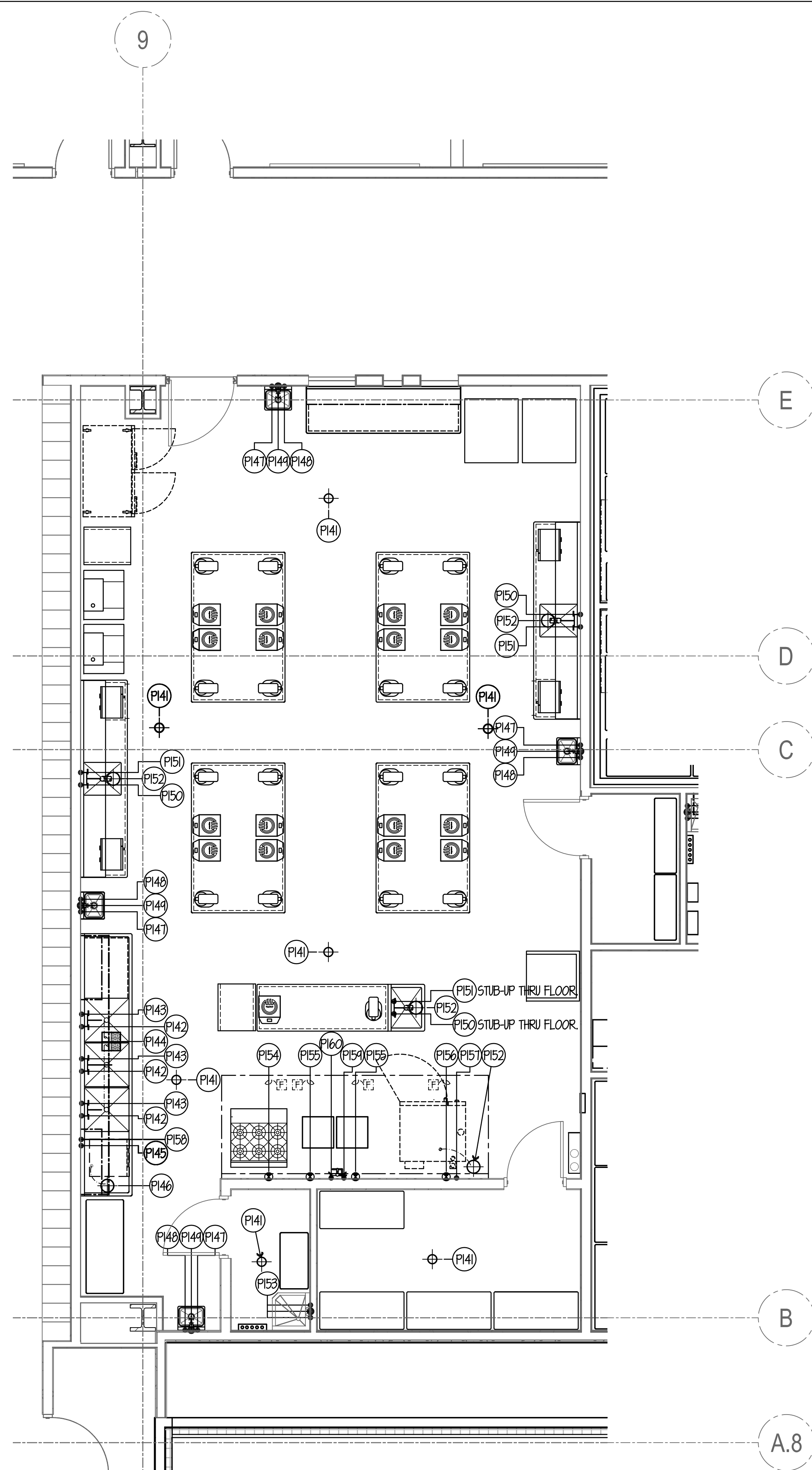
DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dk** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**K J W W** K.J.W.W ENGINEERING  
 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET BIRMINGHAM, MI 48009  
 T: 248.644.0990

<b>BAKERY KITCHEN 2</b>		PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		DATE DEC. 12, 2014
<b>FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN</b>		SHEET NO. <b>FSE-34</b>
<b>CITY CENTER CAMPUS</b>		OF SHEETS
<b>JOLIET JUNIOR COLLEGE</b>		

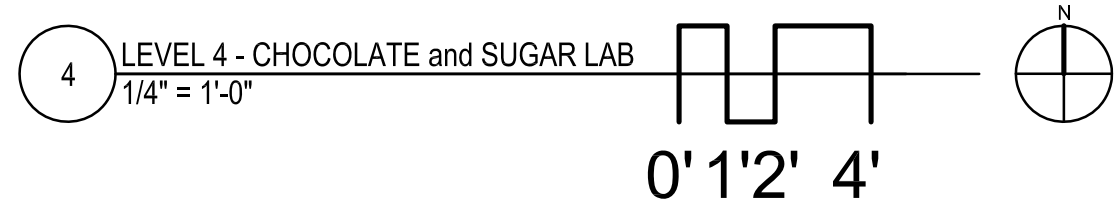


**PLUMBING NOTES**

- (P141) 6" DIA. F.D.- TYPE #1. SEE SCHEDULE THIS SHEET. FLUSH W/ FIN. FLOOR.
- (P142) 3/4" H.W. (140 deg.) OUT OF WALL FOR POT SINK FAUCET.
- (P143) 3/4" C.M. OUT OF WALL FOR POT SINK FAUCET.
- (P144) 12" x 12" I.M.- TYPE #8. SEE SCHEDULE THIS SHEET. W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
- (P145) 1" H.W. (140 deg.) OUT OF WALL FOR W/G DISHWASHER. (22.2 GAL./HR. MAX @ 20 PSI).
- (P146) Ø 1/2" DIA. I.M.- TYPE #6. SEE SCHEDULE THIS SHEET. PC TO RUN 3/4" DRAIN LINE FROM DISHWASHER TO I.M. (4.0 G.P.M. MAX.)- RUN TO CENTRAL GREASE TRAP.
- (P147) 1/2" H.W. OUT OF WALL FOR HAND SINK FAUCET.
- (P148) 1/2" C.M. OUT OF WALL FOR HAND SINK FAUCET.
- (P149) 1 1/2" WASTE OUT OF WALL FOR HAND SINK.
- (P150) 1/2" H.W. OUT OF WALL FOR SINK FAUCET.
- (P151) 1/2" C.M. OUT OF WALL FOR SINK FAUCET.
- (P152) Ø 1/2" DIA. I.M.- TYPE #6. SEE SCHEDULE THIS SHEET.
- (P153) MOP SINK & ALL SERVICES BY PC.
- (P154) 1" GAS (243,000 BTU) OUT OF WALL FOR RANGE W/ FLEX GAS PIPE FURN. BY GC & INSTD W/ SHUT-OFF VALVE BY HC.
- (P155) 1" GAS (60,000 BTU) OUT OF WALL FOR STOCK POT RANGE W/ FLEX GAS PIPE FURN. BY GC & INSTD W/ SHUT-OFF VALVE BY HC.
- (P156) (2) 1" GAS (168,000 BTU) OUT OF WALL FOR COMBI OVEN W/ FLEX GAS PIPE FURN. BY GC & INSTD W/ SHUT-OFF VALVE BY HC.
- (P157) (2) 3/4" C.M. OUT OF WALL FOR COMBI OVEN PC BRANCH TO FOUR (4) CONNECTIONS AS REQUIRED. FILTER SYSTEM FURN. BY GC & INSTD BY HC. SEE CONDITIONED WATER NOTE THIS SHEET.
- (P158) 1/2" C.M. OUT OF WALL FOR W/G DISHWASHER.
- (P159) 1/2" H.W. OUT OF WALL FOR FILL FAUCET.
- (P160) 1/2" C.M. OUT OF WALL FOR FILL FAUCET.

NOTE...  
 PC TO RUN ALL DRAIN/WASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./F.S./I.M./H.O.  
 ALL PIPES, DRAINS, F.D.'S, ETC. TO BE SHOWN BY MECH. ENGINEER.  
 ALL P.R.V.'S, ATMOSPHERIC V.B.'S, V.B.'S, SHUT-OFF VALVES, SHOCK-STOPS, ETC., TO BE FURN. & INSTD BY PC OR HC

**NOTE . . .**  
 SEE SHEET PSE-33 FOR ALL PLUMBING ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

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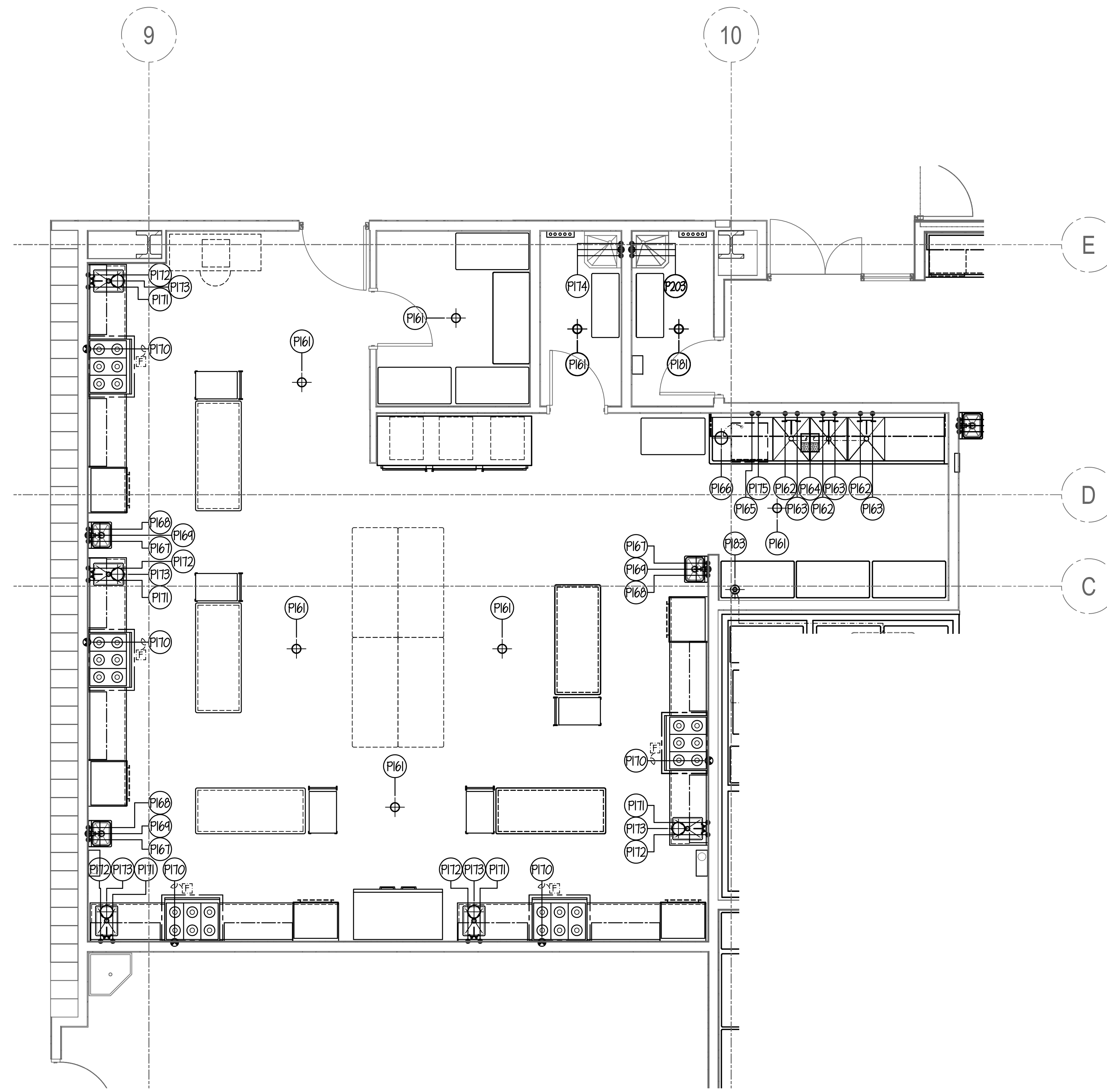
**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**K J W W** K.J.W.W ENGINEERING  
 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET BIRMINGHAM, MI 48009  
 T: 248.644.0990

<b>CHOCOLATE and SUGAR LAB ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-35</b> OF SHEETS





**PLUMBING NOTES**

- P16 6" DIA. F.D. - TYPE #1. SEE SCHEDULE ON SHEET FSE-31. FLUSH W/ FIN. FLOOR.
- P162 3/4" H.H. (140 deg.) OUT OF WALL FOR POT SINK FAUCET.
- P163 3/4" C.M. OUT OF WALL FOR POT SINK FAUCET.
- P164 12" x 12" I.H. - TYPE #8. SEE SCHEDULE ON SHEET FSE-31. W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
- P165 1" H.H. (140 deg.) OUT OF WALL FOR U/C DISHWASHER. (22.2 GAL./HR. MAX @ 20 PSI).
- P166 8-1/2" DIA. I.H. - TYPE #6. SEE SCHEDULE ON SHEET FSE-31. PG. TO RUN 3/4" DRAIN LINE FROM DISHWASHER TO I.H. (4.0 G.P.M. MAX.) - RUN TO CENTRAL GREASE TRAP.
- P167 1/2" H.H. OUT OF WALL FOR HAND SINK FAUCET.
- P168 1/2" C.M. OUT OF WALL FOR HAND SINK FAUCET.
- P169 1-1/2" WASTE OUT OF WALL FOR HAND SINK.
- P170 3/4" GAS (120,000 BTU) OUT OF WALL FOR RANGE W/ FLEX GAS PIPE FURN. BY GC. # INST'D W/ SHUT-OFF VALVE BY HG.
- P171 1/2" H.H. OUT OF WALL FOR SINK FAUCET.
- P172 1/2" C.M. OUT OF WALL FOR SINK FAUCET.
- P173 8 1/2" DIA. I.H. - TYPE #6. SEE SCHEDULE ON SHEET FSE-31.
- P174 MOP SINK & ALL SERVICES BY PG.
- P175 1/2" C.M. OUT OF WALL FOR U/C DISHWASHER.
- P176 SPARE - NOT USED
- P177 SPARE - NOT USED
- P178 SPARE - NOT USED
- P179 SPARE - NOT USED
- P180 SPARE - NOT USED

**NOTE...**

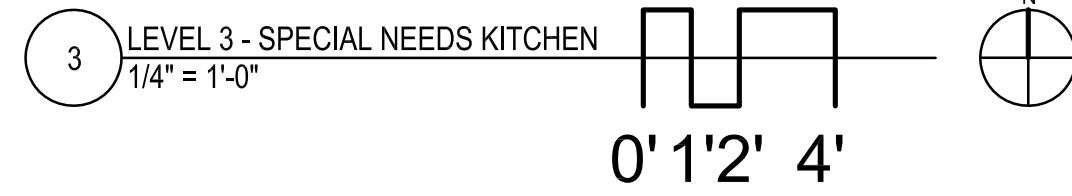
PG TO RUN ALL DRAIN/WASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./F.S./I.H./H.O.

ALL PIPING, DRAINS, F.D.'S, ETC. TO BE SHOWN BY MECH. ENGINEER.

ALL P.R.V.'S, ATMOSPHERIC V.B.'S, V.B.'S, SHUT-OFF VALVES, SHOCK-STOPS, ETC., TO BE FURN. & INST'D BY PG OR HG.

**NOTE...**

SEE SHEET FSE-31 FOR ALL PLUMBING ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

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**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
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**K J W W** K.J.W. ENGINEERING  
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 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET BIRMINGHAM, MI 48009  
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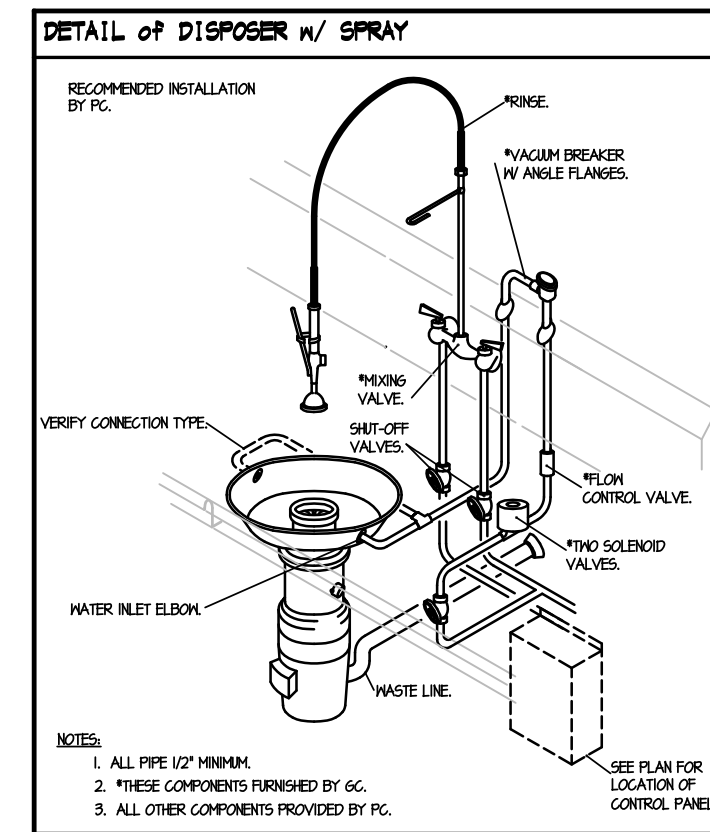
<b>SPECIAL NEEDS KITCHEN ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-36</b> OF SHEETS

**GENERAL NOTES FOR ROUGH-IN PLAN**

THIS PLAN IS TO BE USED FOR BIDDING PURPOSES ONLY & MUST BE REVISION BY GC USING ARCHITECTS FINAL WORKING DRAWINGS (ARCH., ELEC., PLUMB. & MNT.). GC SHALL FURNISH FULLY DIMENSIONED ROUGH-IN PLAN FOR ELECTRICAL, PLUMBING, VENTILATION, DEPRESSION & WALL OPENINGS WITHIN 30 DAYS AFTER AWARD OF CONTRACT. PLANS ARE TO BE REDRAWN & NOT TRACED-OFF OF ORIGINAL DRAWINGS.

GC IS TO ASSIST PG DURING PERIOD WHILE FINAL ROUGH-IN CONNECTIONS ARE BEING MADE. GC SHALL FURNISH ALL NECESSARY PIPING DETAILS AS REQUIRED. GC ALSO TO HAVE FIELD SUPERVISOR ON JOBSITE AT TIME OF FINAL CONNECTIONS.

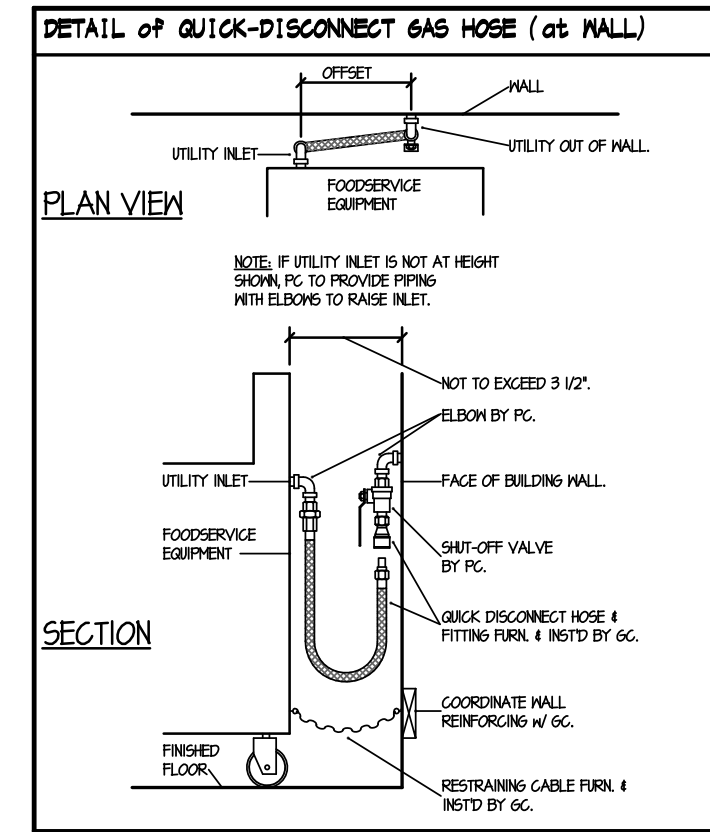
GC SHALL CONTACT PLUMB. ENGINEER BEFORE DRAINING ROUGH-IN PLAN TO VERIFY TYPE OF GAS ON JOBSITE. WHEN SYSTEM IS AVAILABLE, PRESSURE IS TO BE VERIFIED AND ALL EQUIPMENT TO BE FURNISHED ACCORDINGLY.



**PLUMBING ROUGH-IN CODE**

- H.M. HOT WATER
- C.W. COLD WATER
- N. NATE
- I.K. INDIRECT WASTE
- FLOOR DRAIN
- F.T.P.D. FLOOR TYPE FLOOR DRAIN
- FLOOR SINK
- GAS (UNWALL)
- A.P.F. ABOVE FINISH FLOOR

SYMBOL DENOTES DRAIN/WASTE/CONDENSATE LINE OF VARIOUS SIZE TO BE FINISHED & RUN FOR EQUIPMENT TO NEAREST FLOOR. VERIFY EXACT SIZE WITH PG. FINAL BUY-OUT BOOKLET.



**GENERAL NOTE FOR ROUGH-IN PLAN**

ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON WALL. SHOULD BE BROUGHT TO THAT POINT CONCEALED IN WALL & STUBBED-OUT AT HEIGHT SHOWN ON THIS PLAN OR GC FINAL DIMENSIONED ROUGH-IN PLAN. DO NOT STUB OUT OF FLOOR & RUN EXPOSED ON WALL.

**FLOOR DRAIN SCHEDULE**

ALL BY GC - TYPICAL SIZES SHOWN.

TYPE #1: 6" DIA. W/ FULL NICKEL-BRONZE STRAINER, FLUSH W/ FINISH FLOOR.

TYPE #2: 4" DIA. W/ FULL NICKEL-BRONZE STRAINER & 4" HIGH NICKEL-BRONZE FANELL, FLUSH W/ FINISH FLOOR.

TYPE #3: 12" x 12" x 1/2" DEEP W/ FULL NICKEL-BRONZE GRATE TOP, ACID RESISTANT INTERIOR & PERFORATED REMOVABLE BASKET, FLUSH W/ FINISH FLOOR.

TYPE #4: 12" x 12" x 1/2" DEEP W/ FULL ST. ST. REMOVABLE GRATE TOP & REMOVABLE ST. ST. PERFORATED BASKET, FLUSH W/ FINISH FLOOR.

**INDIRECT WASTE SCHEDULE**

ALL BY GC - TYPICAL SIZES SHOWN.

TYPE #5: 6" DIA. W/ FULL NICKEL-BRONZE STRAINER & 4" HIGH NICKEL-BRONZE FANELL.

TYPE #6: 8" DIA. W/ WHITE PORCELAIN INTERIOR & NICKEL-BRONZE INTERIOR DOSE STRAINER.

TYPE #7: 12" x 12" x 1/2" DEEP W/ GRATE TOP W/ ACID RESISTANT INTERIOR & NICKEL-BRONZE INTERIOR DOSE STRAINERS.

TYPE #8: 12" x 12" x 1/2" DEEP W/ 1/4" GRATE NICKEL-BRONZE GRATE TOP, ACID RESISTANT INTERIOR & NICKEL-BRONZE INTERIOR DOSE STRAINER.

**GENERAL NOTE FOR FIRE SYSTEM**

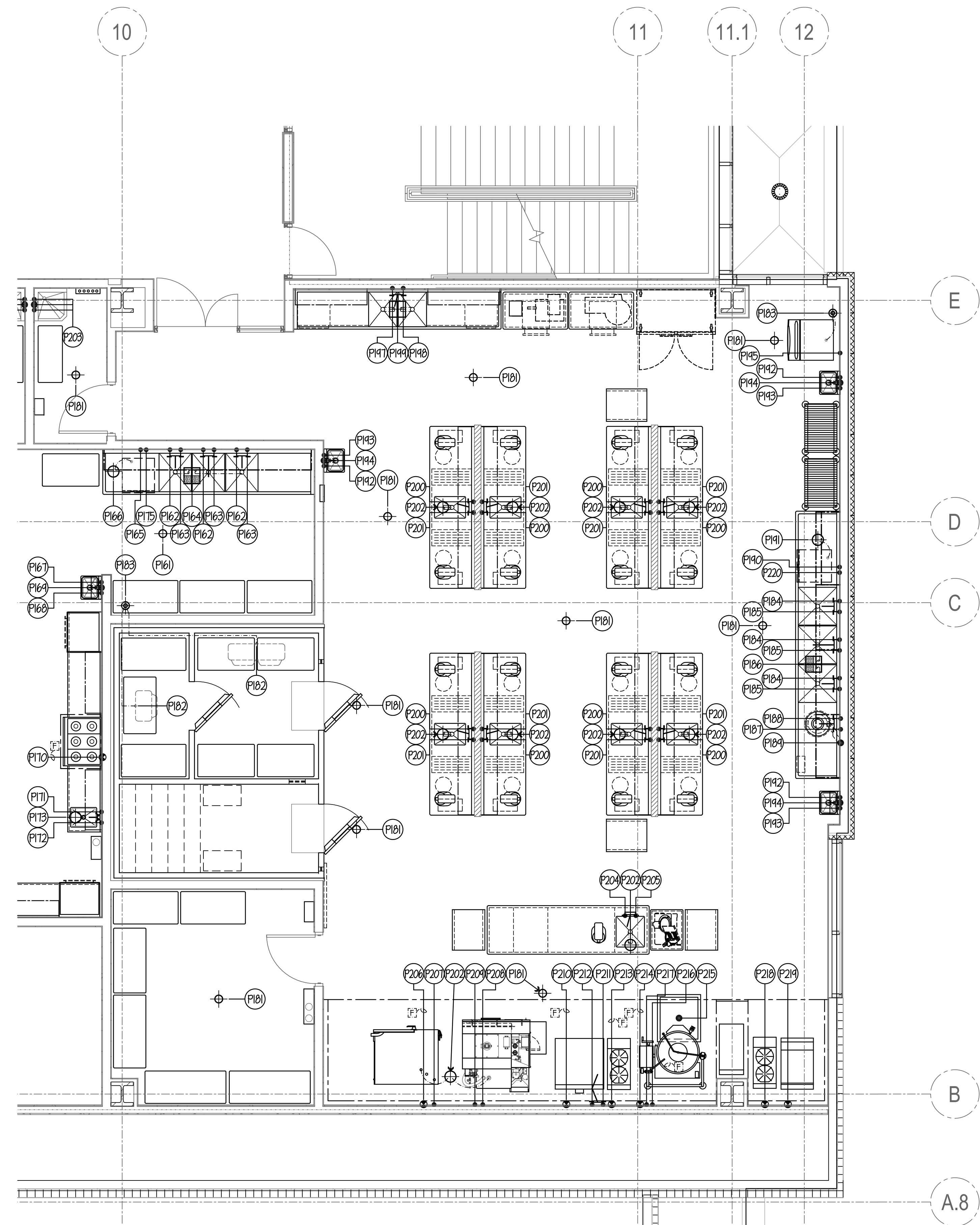
PG TO FURN. & INSTALL REMOVABLE 12" SECTION OF PIPE IN MAIN GAS SUPPLY LINE ( TO KITCHEN COOKING EQUIP. ONLY) LOCATED IN AN ACCESSIBLE AREA, AS CLOSE AS POSSIBLE TO COOKING EQUIP. FOR MECHANICAL-TYPE GAS SHUT-OFF VALVE. VALVE TO BE FURNISHED BY GC & INST'D BY PG.

GC TO VERIFY GAS SUPPLY LINE ON JOBSITE AND FURNISH VALVE TO FIT ACCORDINGLY. ALL GAS SUPPLY LINES TO BE 3/4" OR 1" DIA.

**WATER REQUIREMENTS**

FOR STEWERS, KETTLES, DISHWASHERS, ETC.

TOTAL DISSOLVED SOLIDS: LESS THAN 40 PPM  
TOTAL ALKALINITY: LESS THAN 20 PPM  
SILICA: LESS THAN 12 PPM  
PH FACTOR: 7.0 TO 8.0  
CALORINE: LESS THAN 30 PPM



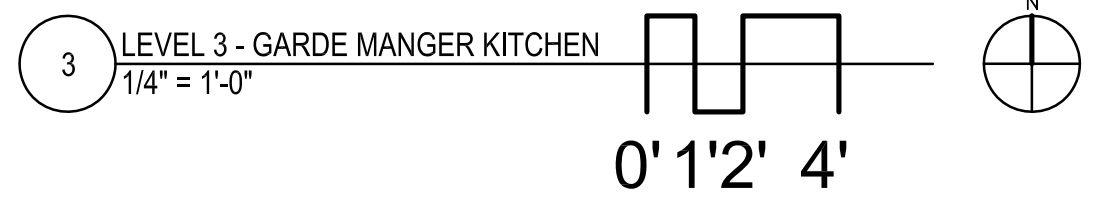
- PLUMBING NOTES**
- (P10) 6" DIA. F.D.- TYPE #1. SEE SCHEDULE THIS SHEET. FLUSH W/ FIN. FLOOR.
  - (P12) GC TO RUN DRAIN LINE FROM EACH BLOWER COIL TO 1 1/2" DIA. HEAT TAPE ALL LINES THRU FREEZER. SLEEVE BY PG- THRU WALL AS REQ'D FOR DRAIN LINES.
  - (P13) 6" DIA. 1 1/2" TYPE #5. SEE SCHEDULE THIS SHEET.
  - (P14) 3/4" H.H. (140 DEG) OUT OF WALL FOR POT SINK FAUCET.
  - (P15) 3/4" C.M. OUT OF WALL FOR POT SINK FAUCET.
  - (P16) 12" x 12" 1/2" TYPE #8. SEE SCHEDULE THIS SHEET. W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
  - (P17) 1/2" H.H. OUT OF WALL FOR SPRAY ASSEMBLY.
  - (P18) 1/2" C.M. OUT OF WALL, PG TO BRANCH TO DISPOSER, SPRAY ASSEMBLY, SOLENOID & VACUUM BREAKER AS REQUIRED.
  - (P19) 3" WASTE OUT OF WALL FOR DISPOSER. 1/4" PER FT. MIN. SLOPE REQ'D. NOTE... RUN TO SOLIDS COLLECTOR AND/OR G.T.
  - (P20) 1" H.H. (140 DEG) OUT OF WALL FOR U/C DISHWASHER. (22.2 GAL/HR. MAX @ 20 PSI).
  - (P21) 8-1/2" DIA. 1 1/2" TYPE #6. SEE SCHEDULE THIS SHEET. PG TO RUN 3/4" DRAIN LINE FROM DISHWASHER TO 1 1/2" (4.0 G.P.M. MAX.) RUN TO CENTRAL GREASE TRAP.
  - (P22) 1/2" H.H. OUT OF WALL FOR HAND SINK FAUCET.
  - (P23) 1/2" C.M. OUT OF WALL FOR HAND SINK FAUCET.
  - (P24) 1-1/2" WASTE OUT OF WALL FOR HAND SINK.
  - (P25) 3/4" C.M. OUT OF WALL FOR ICE MAKER W/ FILTER SYSTEM FURN. BY GC & INST'D BY PG.
  - (P26) 8 1/2" DIA. 1 1/2" TYPE #6. SEE SCHEDULE THIS SHEET.
  - (P27) 1/2" H.H. OUT OF WALL FOR SINK FAUCET.
  - (P28) 1/2" C.M. OUT OF WALL FOR SINK FAUCET.
  - (P29) 12" x 12" 1/2" TYPE #7. SEE SCHEDULE THIS SHEET.
  - (P30) 1/2" H.H. OUT OF WALL FOR SINK FAUCET.
  - (P31) 1/2" C.M. OUT OF WALL FOR SINK FAUCET.
  - (P32) 8 1/2" DIA. 1 1/2" TYPE #6. SEE SCHEDULE THIS SHEET.
  - (P33) MOP SINK & ALL SERVICES BY GC.
  - (P34) 1/2" H.H. UP FROM FLOOR FOR SINK FAUCET.
  - (P35) 1/2" C.M. UP FROM FLOOR FOR SINK FAUCET.
  - (P36) 1" GAS (168,000 BTU) OUT OF WALL FOR COMBI OVEN W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - (P37) 3/4" C.M. OUT OF WALL FOR COMBI-OVEN. PG TO BRANCH TO TWO (2) CONNECTIONS AS REQUIRED. FILTER SYSTEM FURN. BY GC & INST'D BY PG. SEE CONDITIONED WATER NOTE THIS SHEET.
  - (P38) 1/2" H.H. OUT OF WALL FOR SINK FAUCET.
  - (P39) 1/2" C.M. OUT OF WALL FOR SINK FAUCET.
  - (P40) 1" GAS (243,000 BTU) OUT OF WALL FOR RANGE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - (P41) 1/2" H.H. OUT OF WALL FOR FILL FAUCET.
  - (P42) 1/2" C.M. OUT OF WALL FOR FILL FAUCET.
  - (P43) 1" GAS (90,000 BTU) OUT OF WALL FOR RANGE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - (P44) 1" GAS (150,000 BTU) OUT OF WALL FOR KETTLE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - (P45) 3" WASTE 4" BELOW FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY PG. SEE DETAIL THIS SHEET. RUN TO CENTRAL GREASE TRAP.
  - (P46) 1/2" H.H. OUT OF WALL FOR FILL FAUCET.
  - (P47) 1/2" C.M. OUT OF WALL FOR FILL FAUCET.
  - (P48) 1" GAS (90,000 BTU) OUT OF WALL FOR RANGE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - (P49) 1" GAS (64,000 BTU) OUT OF WALL FOR CHARBROILER W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC.
  - (P50) 1/2" C.M. OUT OF WALL FOR U/C DISHWASHER.

**NOTE.**

PG TO RUN ALL DRAIN/WASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./F.S./1 1/2" DIA.

ALL PIPING, DRAINS, F.D.'S, ETC. TO BE SHOWN BY MECH. ENGINEER.

ALL P.R.V.'S, ATMOSPHERIC V.B.'S, V.B.'S, SHUT-OFF VALVES, SHOCK-STOPS, ETC., TO BE FURN. & INST'D BY PG OR GC.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**GARDE MANGER KITCHEN**  
**ISSUED FOR CONSTRUCTION**

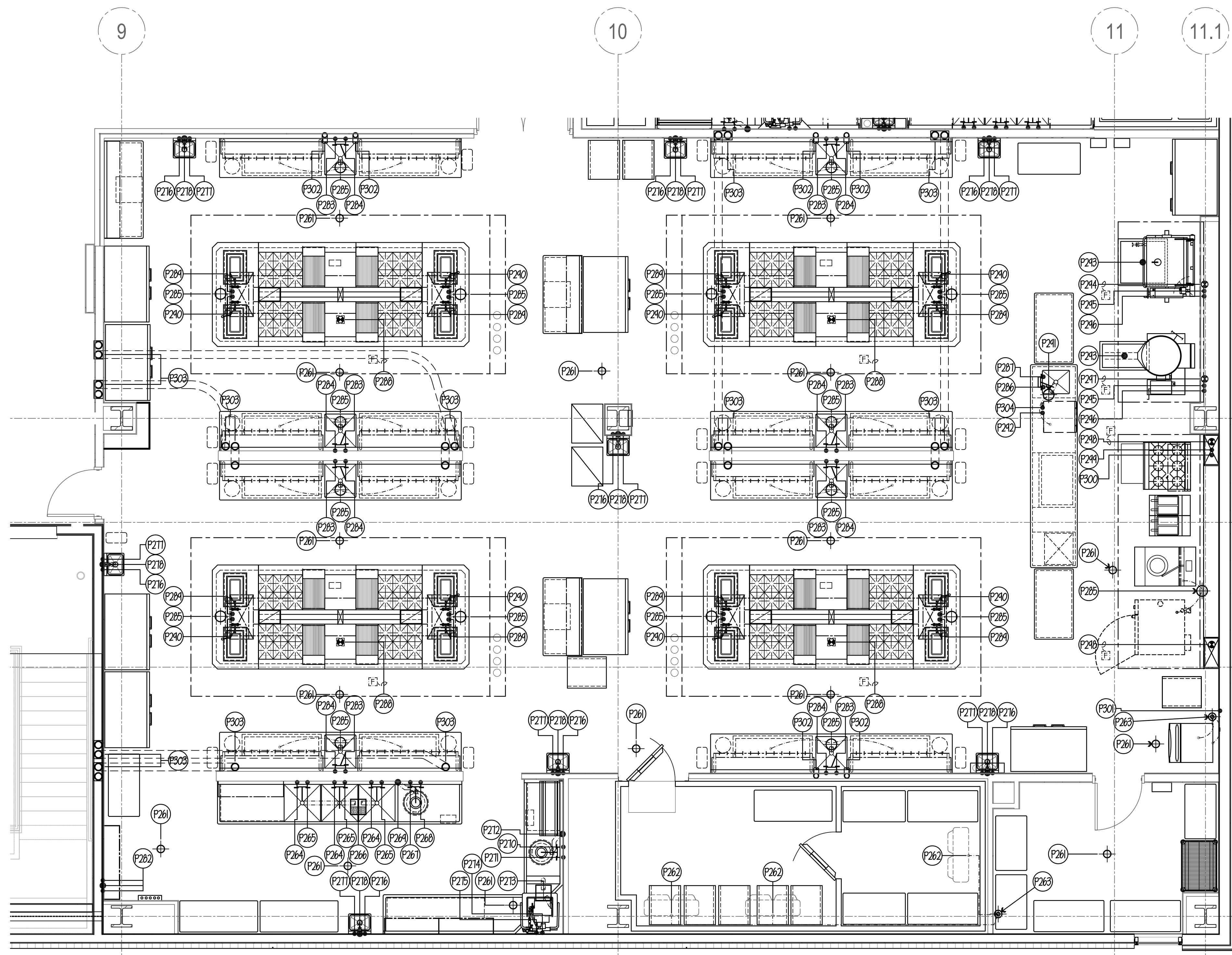
**FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. **FSE-37** OF SHEETS





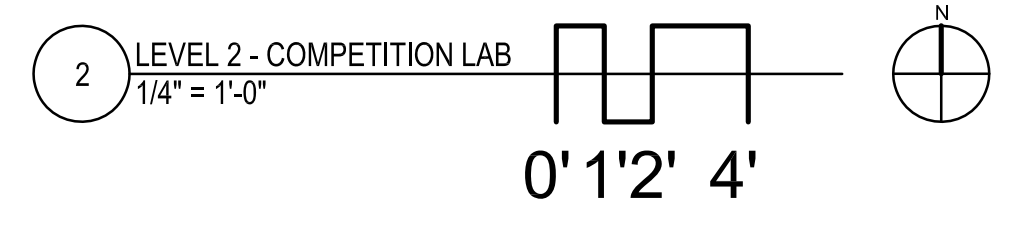


**PLUMBING NOTES**

- (F20) 6" DIA. F.D. - TYPE #1. SEE SCHEDULE ON SHEET FSE-30. FLUSH W/ FIN. FLOOR.
- (F202) GC TO RUN DRAIN LINE FROM EACH BLOWER COIL TO IXL NOTE... GC TO HEAT TAPE ALL LINES THRU FREEZER. SLEEVE BY FC- THRU WALL AS REQ'D FOR DRAIN LINES.
- (F203) 6" DIA. IXL- TYPE #5. SEE SCHEDULE ON SHEET FSE-30.
- (F204) 3/4" H.M. (140 deg.) OUT OF WALL FOR POT SINK FAUCET.
- (F205) 3/4" C.H. OUT OF WALL FOR POT SINK FAUCET.
- (F206) 12" x 12" IXL- TYPE #8. SEE SCHEDULE ON SHEET FSE-30. W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
- (F207) 1/2" H.M. OUT OF WALL FOR SPRAY ASSEMBLY.
- (F208) 1/2" C.H. OUT OF WALL, FC TO BRANCH TO DISPOSER, SPRAY ASSEMBLY, SOLENOID & VACUUM BREAKER AS REQUIRED.
- (F209) 3" WASTE OUT OF WALL FOR DISPOSER. 1/4" PER FT. MIN. SLOPE REQ'D. NOTE... RUN TO SOLIDS COLLECTOR AND/OR G.T.
- (F210) 1/2" H.M. UP OUT OF WALL FOR SPRAY ASSEMBLY.
- (F211) 1/2" C.H. STUB OUT OF WALL, FC TO BRANCH TO DISPOSER, SPRAY ASSEMBLY, SOLENOID & VACUUM BREAKER AS REQUIRED.
- (F212) 3" WASTE OUT OF WALL FOR DISPOSER. 1/4" PER FT. MIN. SLOPE REQ'D. NOTE... RUN TO SOLIDS COLLECTOR AND/OR G.T.
- (F215) 12" x 12" IXL- TYPE #7. SEE SCHEDULE ON SHEET FSE-30. FC TO RUN 1-1/2" DRAIN LINE FROM DISHWASHER TO IXL (30 G.P.M. MAX.)- RUN TO CENTRAL GREASE TRAP.
- (F214) 1" H.M. (140 deg.) OUT OF WALL FOR DISHWASHER. (42.9 GAL./HR. MAX @ 20 PSI).
- (F215) 1/2" C.H. OUT OF WALL FOR DISHWASHER DRAIN WATER TEMPERING KIT.
- (F216) 1/2" H.M. OUT OF WALL FOR HAND SINK FAUCET.
- (F217) 1/2" C.H. OUT OF WALL FOR HAND SINK FAUCET.
- (F218) 1-1/2" WASTE OUT OF WALL FOR HAND SINK.
- (F219) OMIT - NOT USED
- (F220) OMIT - NOT USED
- (F221) OMIT - NOT USED
- (F222) MOP SINK & ALL SERVICES BY FC.
- (F223) 1/2" H.M. OUT OF WALL FOR SINK FAUCET.
- (F224) 1/2" C.H. OUT OF WALL FOR SINK FAUCET.
- (F225) 8 1/2" DIA. IXL- TYPE #6. SEE SCHEDULE ON SHEET FSE-30.
- (F226) 1/2" H.M. UP FROM FLOOR FOR SINK FAUCET.
- (F227) 1/2" C.H. UP FROM FLOOR FOR SINK FAUCET.
- (F228) 1-1/2" GAS (496 MBTU) STUB-UP THRU FLOOR TO WALDORF. WALDORF ALL PRE-PIPED BY GC W/ FINAL CONNECTION & SHUT-OFF VALVE FURN. & INST'D BY FC.
- (F229) 3/4" H.M. UP FROM FLOOR FOR WALDORF SINK FAUCETS (2).
- (F230) 3/4" C.H. UP FROM FLOOR FOR WALDORF SINK FAUCETS (2).
- (F231) 8-1/2" DIA. IXL- TYPE #6. SEE SCHEDULE ON SHEET FSE-30. FC TO RUN 3/4" DRAIN LINE FROM DISHWASHER TO IXL (4.0 G.P.M. MAX.)- RUN TO CENTRAL GREASE TRAP.
- (F232) 1" H.M. (140 deg.) UP FROM FLOOR FOR W/C DISHWASHER. (22.2 GAL./HR. MAX @ 20 PSI).
- (F233) 3" WASTE 4" BELOW FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY FC. SEE DETAIL ON SHEET FSE-53. RUN TO CENTRAL GREASE TRAP.
- (F234) 1" GAS (144,000 BTU) OUT OF WALL FOR TILT BRAISING PAN W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY FC.
- (F235) 1/2" H.M. OUT OF WALL FOR FILL FAUCET.
- (F236) 1/2" C.H. OUT OF WALL FOR FILL FAUCET.
- (F237) 1" GAS (150,000 BTU) OUT OF WALL FOR TILT KETTLE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY FC.
- (F238) 1-1/2" LOOPED GAS-1550 MBTU TOTAL DOWN FROM ABOVE- TO UTILITY DISTRIBUTION SYSTEM (U.D.S.).
- (F239) 1" H.M. UDS ALL PRE-PIPED BY GC- READY FOR FINAL CONNECTIONS BY FC. SEE DETAILS ON SHEET FSE-46.
- (F300) 1" C.H.
- (F301) 3/4" C.H. OUT OF WALL FOR ICE MAKER W/ FILTER SYSTEM FURN. BY GC & INST'D BY FC.
- (F302) 4" I.D. P.V.C. PIPE FURN. & INST'D BY FC- DOWN THRU WALL FROM ABOVE FIN. CEILING & OUT OF WALL 6" A.F.F. W/ SMOOTH RADIUS BENDS (NO 90°) FOR REFRIGERATION LINES BY GC
- (F303) FC TO FURN. & INSTALL: 6" I.D. P.V.C. PIPE DOWN THRU WALL FROM ABOVE FIN. CEILING INTO 14" x 14" ACCESS BOX FLUSH IN WALL 6" A.F.F. & 6" I.D. P.V.C. PIPE OUT OF BOX- RUN BELOW FIN. FLOOR & STUB-UP 3" A.F.F. WHERE SHOWN FOR REFRIGERATION LINES BY GC 2ND PIPE TO RUN BELOW FLOOR & STUB-UP 3" A.F.F. WHERE SHOWN FOR REFRIGERATION LINES (CONT'D) BY GC
- (F304) 1/2" C.H. UP FROM FLOOR FOR W/C DISHWASHER.
- (F305) SPARE - NOT USED
- (F306) SPARE - NOT USED
- (F307) SPARE - NOT USED
- (F308) SPARE - NOT USED
- (F309) SPARE - NOT USED
- (F310) SPARE - NOT USED

**NOTE.**  
 FC TO RUN ALL DRAIN/WASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./F.S./I.U.H.O.  
 ALL PIPING, DRAINS, F.D.'S, ETC. TO BE SHOWN BY MECH. ENGINEER.  
 ALL P.R.V.'S, ATMOSPHERIC V.B.'S, V.B.'S, SHUT-OFF VALVES, SHOCK-STOPS, ETC. TO BE FURN. & INST'D BY FC OR HC

**NOTE...**  
 SEE SHEET FSE-30 FOR ALL PLUMBING ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
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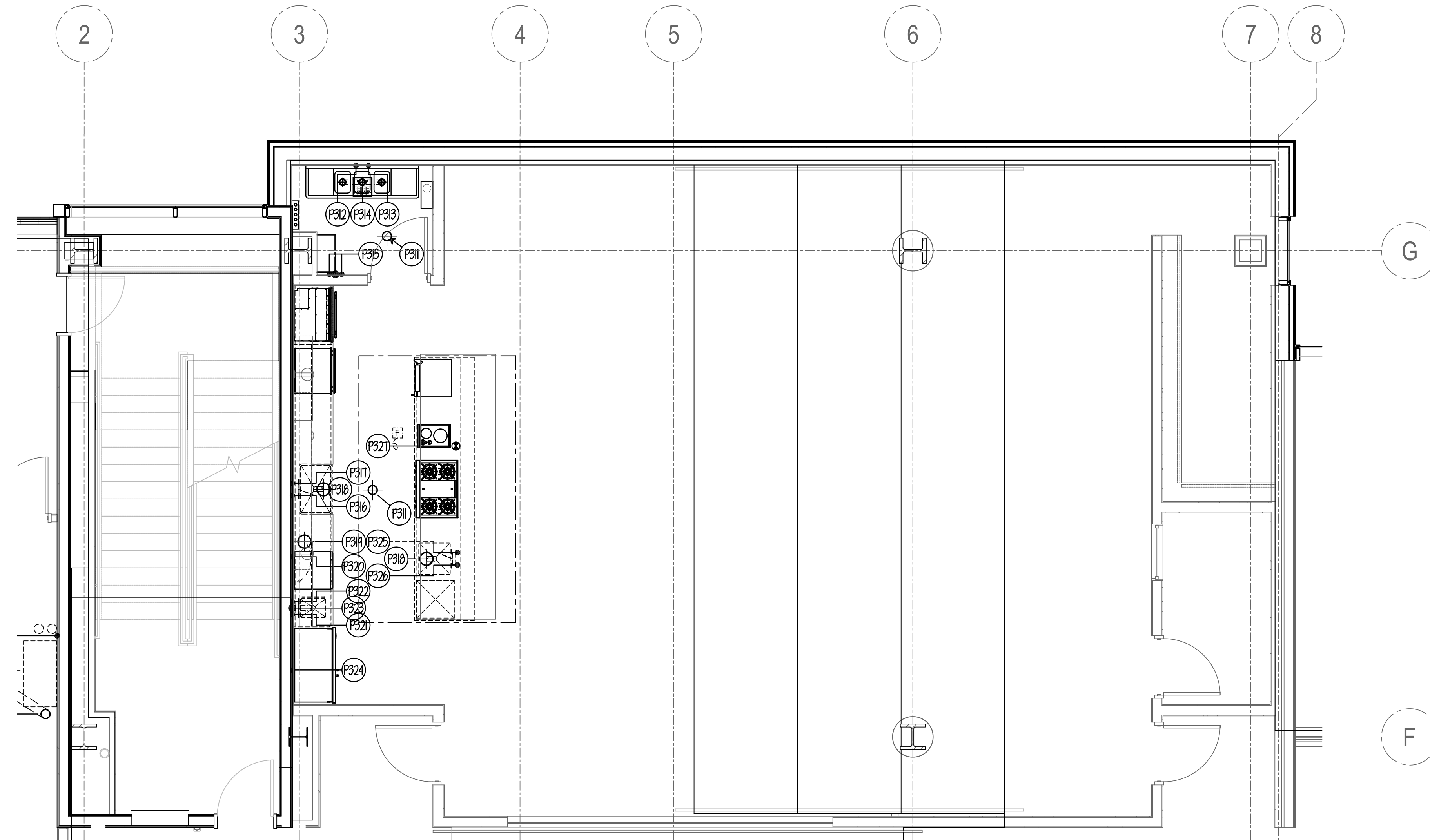
  

DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJWW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>COMPETITION LAB</b> <b>ISSUED FOR CONSTRUCTION</b> <b>FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN</b>	PROJECT NO. CDB 810-048-023
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>	DATE DEC. 12, 2014
<b>FSE-39</b> OF SHEETS	SHEET NO.





**PLUMBING NOTES**

- (F301) 6" DIA. F.D.- TYPE #1, SEE SCHEDULE ON SHEET FSE-30, FLUSH W/ FIN. FLOOR.
- (F302) 1/2" HXL (140 deg.) OUT OF WALL FOR POT SINK FAUCET.
- (F303) 1/2" C.N. OUT OF WALL FOR POT SINK FAUCET.
- (F304) 12" x 12" IXL- TYPE #0, SEE SCHEDULE ON SHEET FSE-30, W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
- (F305) MOP SINK & ALL SERVICES BY PG.
- (F306) 1/2" HXL OUT OF WALL FOR SINK FAUCET.
- (F307) 1/2" C.N. OUT OF WALL FOR SINK FAUCET.
- (F308) 8 1/2" DIA. IXL- TYPE #6, SEE SCHEDULE ON SHEET FSE-30.
- (F309) 8-1/2" DIA. IXL- TYPE #6, SEE SCHEDULE ON SHEET FSE-30, PG TO RUN 3/4" DRAIN LINE FROM DISHWASHER TO IXL (4.0 G.P.M. MAX.)- RUN TO CENTRAL GREASE TRAP.
- (F310) 1" HXL (140 deg.) UP FROM FLOOR FOR UIC DISHWASHER. (22.2 GAL./HR. MAX @ 20 PSI).
- (F320) 1/2" HXL OUT OF WALL FOR HAND SINK FAUCET.
- (F322) 1/2" C.N. OUT OF WALL FOR HAND SINK FAUCET.
- (F323) 1-1/2" WASTE OUT OF WALL FOR HAND SINK.
- (F324) 1/2" C.N. OUT OF WALL FOR REFRIGERATOR ICE MAKER.
- (F325) 1/2" HXL UP FROM FLOOR FOR SINK FAUCET.
- (F328) 1/2" C.N. UP FROM FLOOR FOR SINK FAUCET.
- (F327) 1" GAS (84,200 BTU) UP FROM FLOOR FOR RANGETOP W/ ALL PIPING & SHUT-OFF VALVE BY PG.
- (F329) SPARE - NOT USED
- (F329) SPARE - NOT USED
- (F333) SPARE - NOT USED

**NOTE...**

PG TO RUN ALL DRAIN/WASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./F.S./IXL/H.O.

ALL PIPING, DRAINS, F.D.'s, ETC. TO BE SHOWN BY MECH. ENGINEER.

ALL P.R.V.'s, ATMOSPHERIC V.B.'s, V.B.'s, SHUT-OFF VALVES, SHOCK-STOPS, ETC., TO BE FURN. & INSTD BY PG.

**NOTE . . .**  
SEE SHEET FSE-30 FOR ALL PLUMBING ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

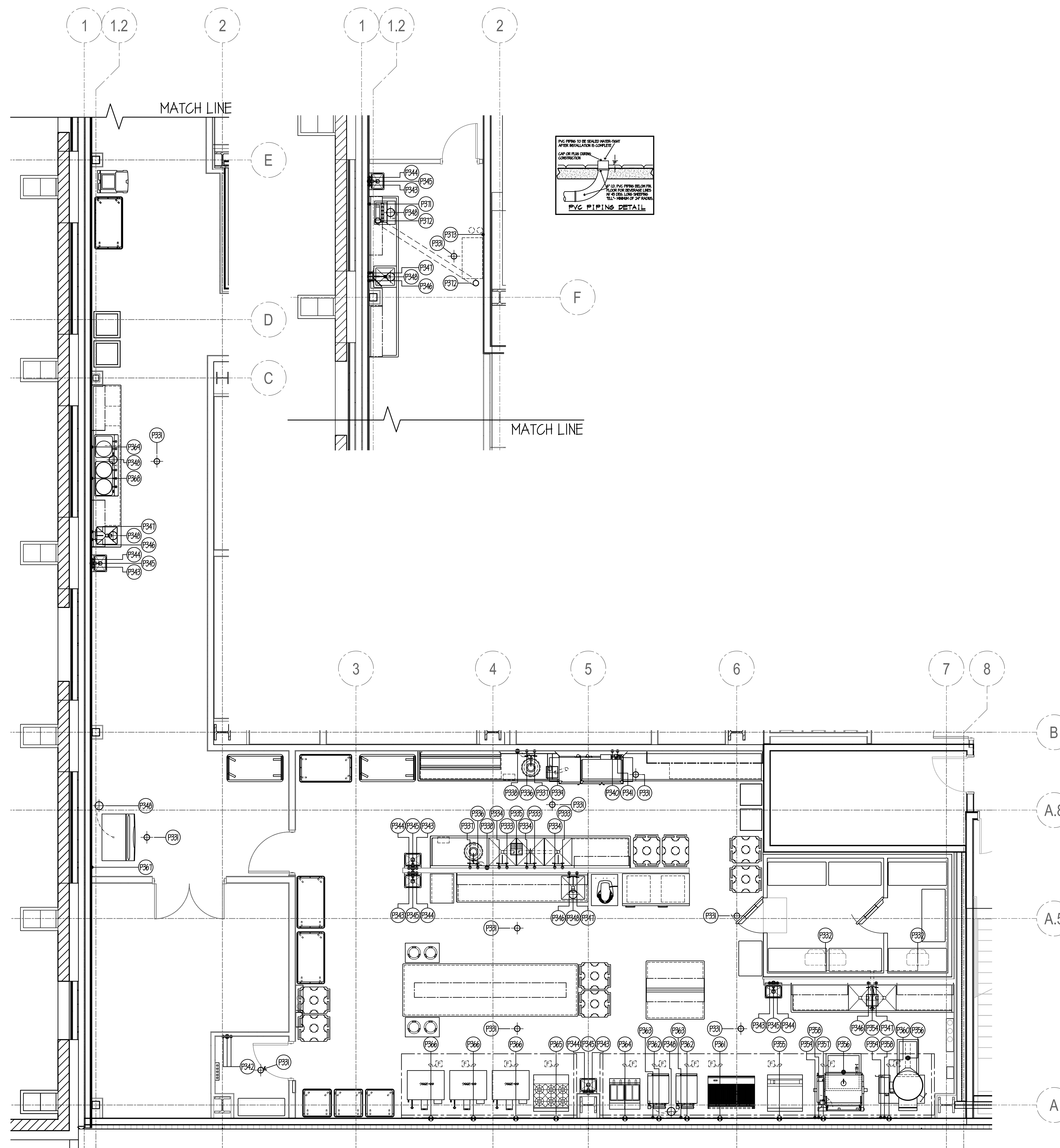
**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

<b>DEMONSTRATION KITCHEN ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-40</b> OF SHEETS

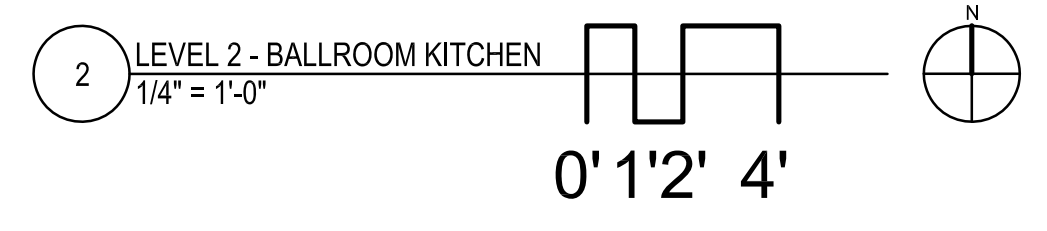


**PLUMBING NOTES**

- (P329) 6" DIA. F.D.- TYPE #1. SEE SCHEDULE ON SHEET FSE-38. FLUSH W/ FIN. FLOOR.
- (P330) 6G TO RUN DRAIN LINE FROM EACH BLOWER COIL TO 1/4" NOTE... 6G TO HEAT TAPE. ALL LINES THRU FREEZER. SLEEVE BY PC- THRU WALL AS REQ'D FOR DRAIN LINES.
- (P331) 3/4" HX (140 deg.) OUT OF WALL FOR POT SINK FAUCET.
- (P332) 3/4" C.N. OUT OF WALL FOR POT SINK FAUCET.
- (P333) 12" x 12" I.M.- TYPE #8. SEE SCHEDULE ON SHEET FSE-38. W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
- (P334) 1/2" HX. OUT OF WALL FOR SPRAY ASSEMBLY.
- (P335) 1/2" C.N. OUT OF WALL, PG TO BRANCH TO DISPOSER, SPRAY ASSEMBLY, SOLENOID & VACUUM BREAKER AS REQUIRED.
- (P336) 3" WASTE OUT OF WALL FOR DISPOSER. 1/4" PER FT. MIN. SLOPE REQ'D. NOTE... RUN TO SOLIDS COLLECTOR AND/OR G.T.
- (P337) 12" x 12" I.M.- TYPE #1. SEE SCHEDULE ON SHEET FSE-38. PG TO RUN 1-1/2" DRAIN LINE FROM DISHWASHER TO 1/4" (30 G.P.M. MAX.)- RUN TO CENTRAL GREASE TRAP.
- (P338) 1" HX (140 deg.) OUT OF WALL FOR DISHWASHER. (42.9 GAL. AIR. MAX @ 20 PSI).
- (P339) 1/2" C.N. OUT OF WALL FOR DISHWASHER DRAIN WATER TEMPERING KIT.
- (P340) MOP SINK & ALL SERVICES BY PG.
- (P341) 1/2" HX. OUT OF WALL FOR HAND SINK FAUCET.
- (P342) 1/2" C.N. OUT OF WALL FOR HAND SINK FAUCET.
- (P343) 1-1/2" WASTE OUT OF WALL FOR HAND SINK.
- (P344) 1/2" HX. OUT OF WALL FOR SINK FAUCET.
- (P345) 1/2" C.N. OUT OF WALL FOR SINK FAUCET.
- (P346) 8 1/2" DIA. I.M.- TYPE #6. SEE SCHEDULE ON SHEET FSE-38.
- (P347) OMIT - NOT USED
- (P348) OMIT - NOT USED
- (P349) OMIT - NOT USED
- (P350) OMIT - NOT USED
- (P351) OMIT - NOT USED
- (P352) OMIT - NOT USED
- (P353) OMIT - NOT USED
- (P354) 12" x 12" I.M.- TYPE #1. SEE SCHEDULE ON SHEET FSE-38.
- (P355) 1" GAS (41,000 BTU) OUT OF WALL FOR GRIDDLE TOP RANGE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY HG.
- (P356) 3" WASTE 9" BELOW FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY PG. SEE DETAIL ON SHEET FSE-53. RUN TO CENTRAL GREASE TRAP.
- (P357) 1" GAS (44,000 BTU) OUT OF WALL FOR TILT BRAISING PAN W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY HG.
- (P358) 1/2" HX. OUT OF WALL FOR FILL FAUCET.
- (P359) 1/2" C.N. OUT OF WALL FOR FILL FAUCET.
- (P360) 1" GAS (150,000 BTU) OUT OF WALL FOR TILT KETTLE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY HG.
- (P361) 1" GAS (160,000 BTU) OUT OF WALL FOR CHAR BROILER W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY HG.
- (P362) 1" GAS (124,000 BTU) OUT OF WALL FOR STEAMER W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY HG.
- (P363) 3/4" C.N. OUT OF WALL FOR STEAMER. SEE WATER QUALITY NOTE ON SHEET FSE-38.
- (P364) 1" GAS (244,000 BTU) OUT OF WALL FOR FRYERS W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY HG.
- (P365) 1" GAS (243,000 BTU) OUT OF WALL FOR RANGE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY HG.
- (P366) 1" GAS (180,000 BTU) OUT OF WALL FOR DOUBLE DECK CONVECTION OVEN W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY HG.
- (P367) 3/4" C.N. OUT OF WALL FOR ICE MAKER W/ FILTER SYSTEM FURN. BY GC & INST'D BY PG.
- (P368) 1/2" C.N. OUT OF WALL FOR COFFEE URN W/ FILTER SYSTEM BY GC. ALL UTILITIES BY GC- AS REQUIRED.
- (P369) 1/2" C.N. OUT OF WALL FOR COFFEE URN W/ FILTER SYSTEM BY GC. ALL UTILITIES BY GC- AS REQUIRED.
- (P370) SPARE - NOT USED
- (P371) 1/2" C.N. OUT OF WALL FOR SODA DISPENSER.
- (P372) 6" I.D. PVC PIPE FURN. & INST'D BY PG - RUN BELOW FIN. FLOOR W/ SMOOTH 24" MIN. RADIUS SNEEPIING BENDS & STUB-UP WHERE SHOWN FOR SODA LINES BY GC. SEE DETAIL THIS SHEET.
- (P373) 1/2" C.N. OUT OF WALL FOR BAG-IN-BOX SODA SYSTEM.
- (P374) SPARE - NOT USED
- (P375) SPARE - NOT USED
- (P376) SPARE - NOT USED
- (P377) SPARE - NOT USED
- (P378) SPARE - NOT USED
- (P379) SPARE - NOT USED
- (P380) SPARE - NOT USED

**NOTE...**  
 PG TO RUN ALL DRAIN/WASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./F.S./I.M./O.  
 ALL PIPING, DRAINS, F.D.'S, ETC. TO BE SHOWN BY MECH. ENGINEER.  
 ALL P.R.V.'S, ATMOSPHERIC V.B.'S, V.B.'S, SHUT-OFF VALVES, SHOCK-STOPS, ETC., TO BE FURN. & INST'D BY PG OR HG.

**NOTE...**  
 SEE SHEET FSE-38 FOR ALL PLUMBING ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

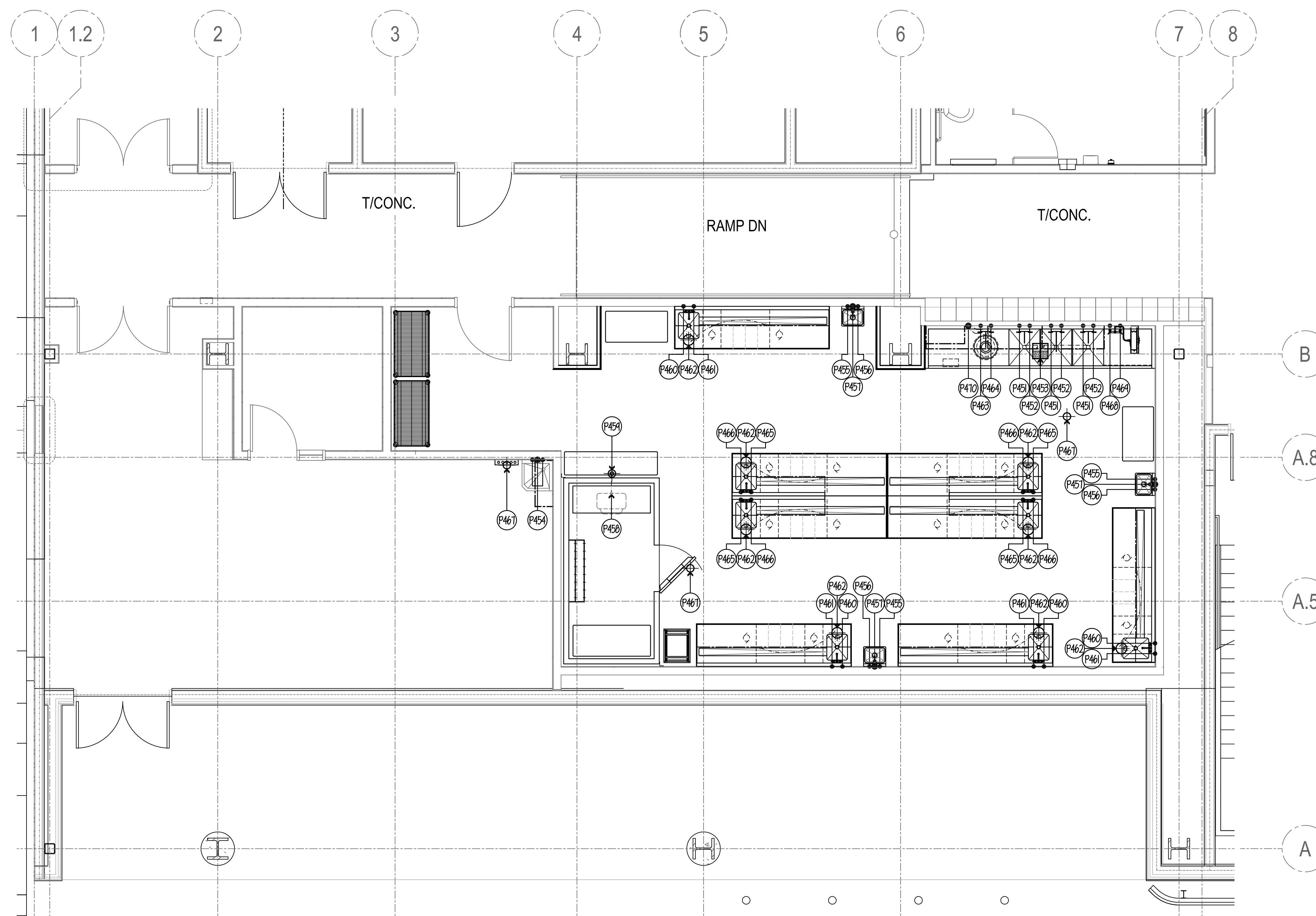
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>CDW</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>BALLROOM KITCHEN</b>	PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>	DATE DEC. 12, 2014
<b>FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN</b>	SHEET NO. <b>FSE-41</b>
<b>CITY CENTER CAMPUS</b>	OF SHEETS
<b>JOLIET JUNIOR COLLEGE</b>	





**GENERAL NOTES FOR ROUGH-IN PLAN**  
 THIS PLAN IS TO BE USED FOR BIDDING PURPOSES ONLY & MUST BE REDRAN BY GC USING HIGHEST FINAL WORKING DRAWINGS (ARCH., ELEC., PLUMB. & MECH.).  
 GC SHALL FURNISH FULLY DIMENSIONED ROUGH-IN PLAN FOR ELECTRICAL, PLUMBING, VENTILATION, DEPRESSION & WALL OPENINGS WITHIN 30 DAYS AFTER AWARD OF CONTRACT. PLANS ARE TO BE REDRAN & NOT TRACED-OFF OF ORIGINAL DRAWINGS.

**FLOOR DRAIN SCHEDULE**  
 ALL BY EC - TYPICAL SIZES SHOWN.  
 TYPE #1: 4" DIA. W/ FULL NICKEL-BRONZE STRAINER, FLUSH W/ FINISH FLOOR.  
 TYPE #2: 4" DIA. W/ FULL NICKEL-BRONZE STRAINER & 4" HIGH NICKEL-BRONZE FUNNEL, FLUSH W/ FINISH FLOOR.  
 TYPE #3: 12" x 12" x 12" DEEP W/ FULL NICKEL-BRONZE GRIPE TOP, ACID RESISTANT INTERIOR & PERFORATED REMOVABLE ENVELOPED BASKET, FLUSH W/ FINISH FLOOR.  
 TYPE #4: 12" x 12" x 12" DEEP W/ FULL ST. ST. REMOVABLE GRIPE TOP & REMOVABLE ST. ST. PERFORATED BASKET, FLUSH W/ FINISH FLOOR.

**INDIRECT WASTE SCHEDULE**  
 ALL BY EC - TYPICAL SIZES SHOWN.  
 TYPE #5: 4" DIA. W/ FULL NICKEL-BRONZE STRAINER & 4" HIGH NICKEL-BRONZE FUNNEL.  
 TYPE #6: 1/2" DIA. W/ FULL NICKEL-BRONZE INTERIOR & NICKEL-BRONZE INTERIOR DOME STRAINER.  
 TYPE #7: 12" x 12" x 12" DEEP NICKEL-BRONZE GRIPE TOP W/ ACID RESISTANT INTERIOR & NICKEL-BRONZE INTERIOR DOME STRAINER.  
 TYPE #8: 12" x 12" x 12" DEEP W/ 1/4" DIA. NICKEL-BRONZE GRIPE TOP, ACID RESISTANT INTERIOR & NICKEL-BRONZE INTERIOR DOME STRAINER.

**PLUMBING ROUGH-IN CODE**  
 H.W. HOT WATER  
 C.W. COLD WATER  
 N. WASTE  
 I.W. INDIRECT WASTE  
 F.D. FLOOR DRAIN  
 F.T.F.D. FLOOR-TYPE FLOOR DRAIN  
 S. FLOOR SINK  
 G. GAS (AIRFLOW)  
 A.F.F. ABOVE FINISH FLOOR  
 S.M.B. SINKS, DRAIN/WASTE/CONDENSATE LINE OF VARIOUS SIZE, TO BE FURNISHED & INSTALLED BY GC.  
 TO RUN FROM EQUIPMENT TO NEAREST F.T.F.D. (SINK) OR F.D. (SINK) WITH VERIFY EXACT SIZE WITH FSG, FINAL, BUT NOT BULKET.

**GENERAL NOTE FOR FIRE SYSTEM**  
 GC TO FURNISH & INSTALL REMOVABLE 12" SECTION OF PIPE IN MAIN GAS SUPPLY LINE TO KITCHEN COOKING EQUIP. (ONLY) LOCATED IN AN ACCESSIBLE AREA, AS CLOSE AS POSSIBLE TO COOKING EQUIP. FOR MECHANICAL-TYPE GAS SHUT-OFF VALVE. VALVE TO BE FURNISHED BY GC & INST'D BY PC.  
 GC TO VERIFY GAS SUPPLY LINE ON JOBSITE AND FURNISH VALVE TO FIT ACCORDINGLY. ALL GAS SUPPLY LINES SHALL BE 3/4" O.D. 30MM (1.5")

**WATER REQUIREMENTS**  
 FOR STEWERS, KETTLES, DISHWASHERS, ETC.,  
 TOTAL DISSOLVED SOLIDS: LESS THAN 40 PPM  
 TOTAL ALKALINITY: LESS THAN 20 PPM  
 SILICA: LESS THAN 10 PPM  
 PH FACTOR: 7.0 TO 9.0  
 CALORINE: LESS THAN 50 PPM

**GENERAL NOTE FOR ROUGH-IN PLAN**  
 ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON WALL, SHOULD BE BROUGHT TO THAT POINT CONCEALED IN WALL & STUBBED-OUT AT HEIGHT SHOWN ON THIS PLAN OR GC FINAL DIMENSIONED ROUGH-IN PLAN. DO NOT STUB OUT OF FLOOR & RUN EXPOSED ON WALL.

**PLUMBING NOTES**

- (P451) 3/4" H.W. (140 deg.) OUT OF WALL FOR POT SINK FAUCET.
- (P452) 3/4" C.W. OUT OF WALL FOR POT SINK FAUCET.
- (P453) 12" x 12" I.W. - TYPE #8. SEE SCHEDULE THIS SHEET. W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
- (P454) MOP SINK & ALL SERVICES BY PC
- (P455) 1/2" H.W. OUT OF WALL FOR HAND SINK FAUCET.
- (P456) 1/2" C.W. OUT OF WALL FOR HAND SINK FAUCET.
- (P457) 1-1/2" WASTE OUT OF WALL FOR HAND SINK.
- (P458) GC TO RUN DRAIN LINE FROM EACH BLOWER COIL TO I.W. NOTE. GC TO HEAT TAPE ALL LINES THRU FREEZER.
- (P459) 6" DIA. I.W. - TYPE #5. SEE SCHEDULE THIS SHEET.
- (P460) 1/2" H.W. OUT OF WALL FOR SINK FAUCET.
- (P461) 1/2" C.W. OUT OF WALL FOR SINK FAUCET.
- (P462) 8 1/2" DIA. I.W. - TYPE #6. SEE SCHEDULE THIS SHEET.
- (P463) 1/2" H.W. OUT OF WALL FOR SPRAY ASSEMBLY.
- (P464) 1/2" C.W. OUT OF WALL, PC TO BRANCH TO DISPOSER, SPRAY ASSEMBLY, SOLENOID & VACUUM BREAKER AS REQUIRED.
- (P465) 1/2" H.W. OUT OF FLOOR FOR SINK FAUCET.
- (P466) 1/2" C.W. OUT OF FLOOR FOR SINK FAUCET.
- (P467) 6" DIA. F.D. - TYPE #1. SEE SCHEDULE THIS SHEET. FLUSH W/ FIN. FLOOR.
- (P468) 1/2" H.W. OUT OF WALL FOR HOSE REEL ASSEMBLY.
- (P469) 1/2" C.W. OUT OF WALL FOR HOSE REEL ASSEMBLY.
- (P470) 3" WASTE OUT OF WALL FOR DISPOSER. 1/4" PER FT. MIN. SLOPE REQ'D. NOTE. RUN TO SOLIDS COLLECTOR AND/OR G.T.

**NOTE:**

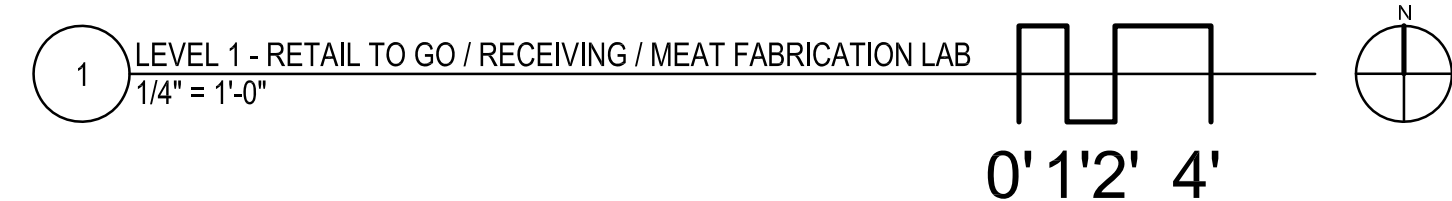
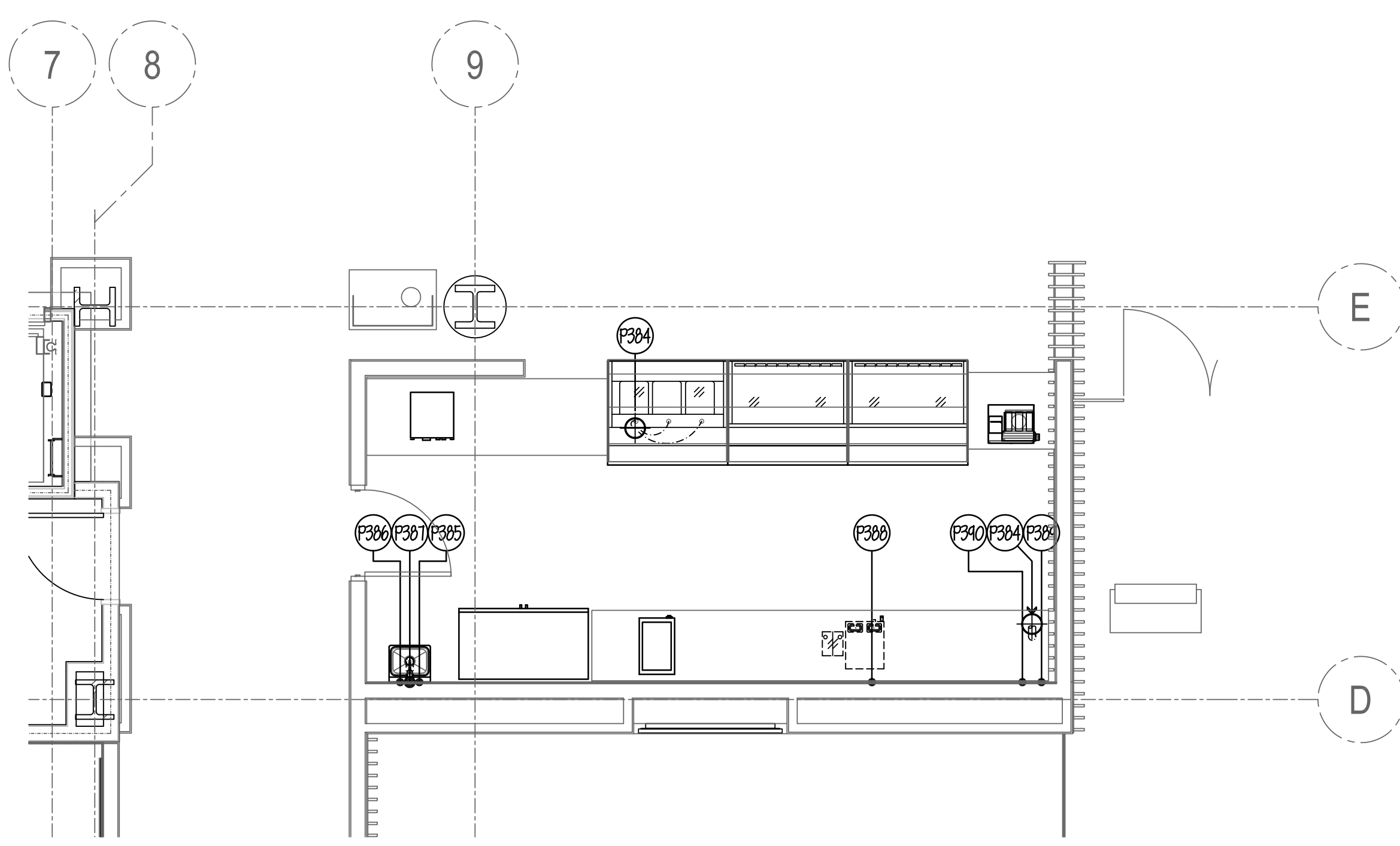
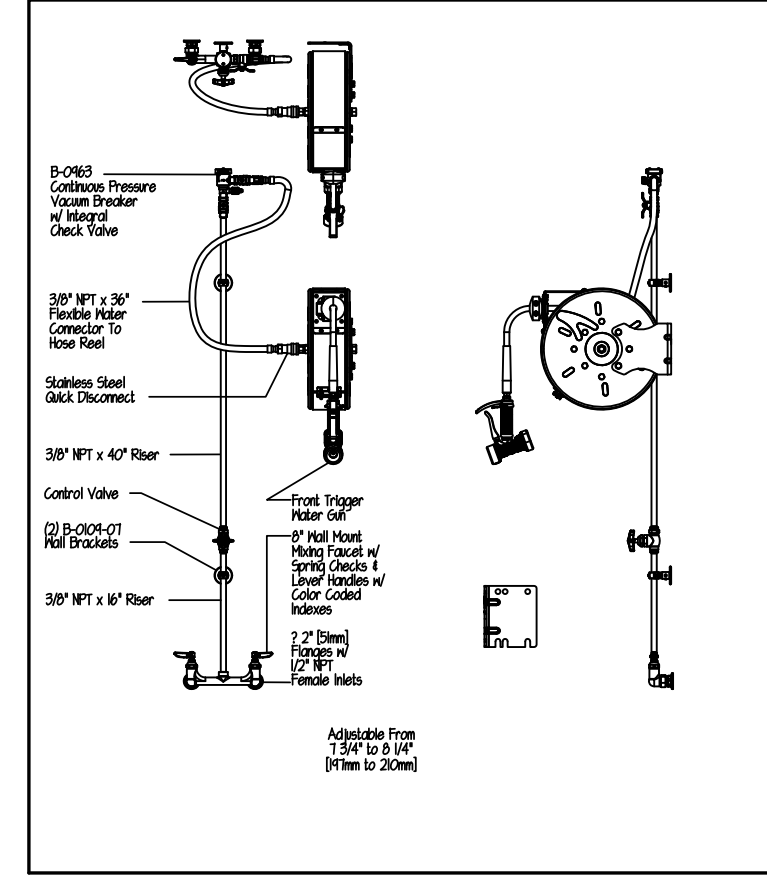
PC TO RUN ALL DRAIN/WASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./S.I.W./I.O.  
 ALL PIPING, DRAINS, F.D.'S, ETC. TO BE SHOWN BY MECH. ENGINEER.  
 ALL P.R.V.'S, ATMOSPHERIC V.B.'S, V.B.'S, SHUT-OFF VALVES, SHOCK-STOPS, ETC., TO BE FURN. & INST'D BY PC OR GC

**NOTE...**

SEE SHEET FSE42 FOR ALL PLUMBING ROUGH-IN DETAILS & SCHEDULES.

**PLUMBING NOTES**

- (P381) SPARE - NOT USED
- (P382) SPARE - NOT USED
- (P383) SPARE - NOT USED
- (P384) 8 1/2" DIA. I.W. - TYPE #6. SEE SCHEDULE THIS SHEET.
- (P385) 1/2" H.W. OUT OF WALL FOR HAND SINK FAUCET.
- (P386) 1/2" C.W. OUT OF WALL FOR HAND SINK FAUCET.
- (P387) 1-1/2" WASTE OUT OF WALL FOR HAND SINK.
- (P388) 1/2" C.W. OUT OF WALL FOR COFFEE MAKER W/ FILTER SYSTEM FURN. BY GC & INST'D BY PC
- (P389) 1/2" H.W. OUT OF WALL FOR SINK FAUCET.
- (P390) 1/2" C.W. OUT OF WALL FOR SINK FAUCET.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	CDW	PREPARED	XXX
TRACED	XXX	APPROVED	XXX
CHECKED	XXX	APPROVED	EFW

 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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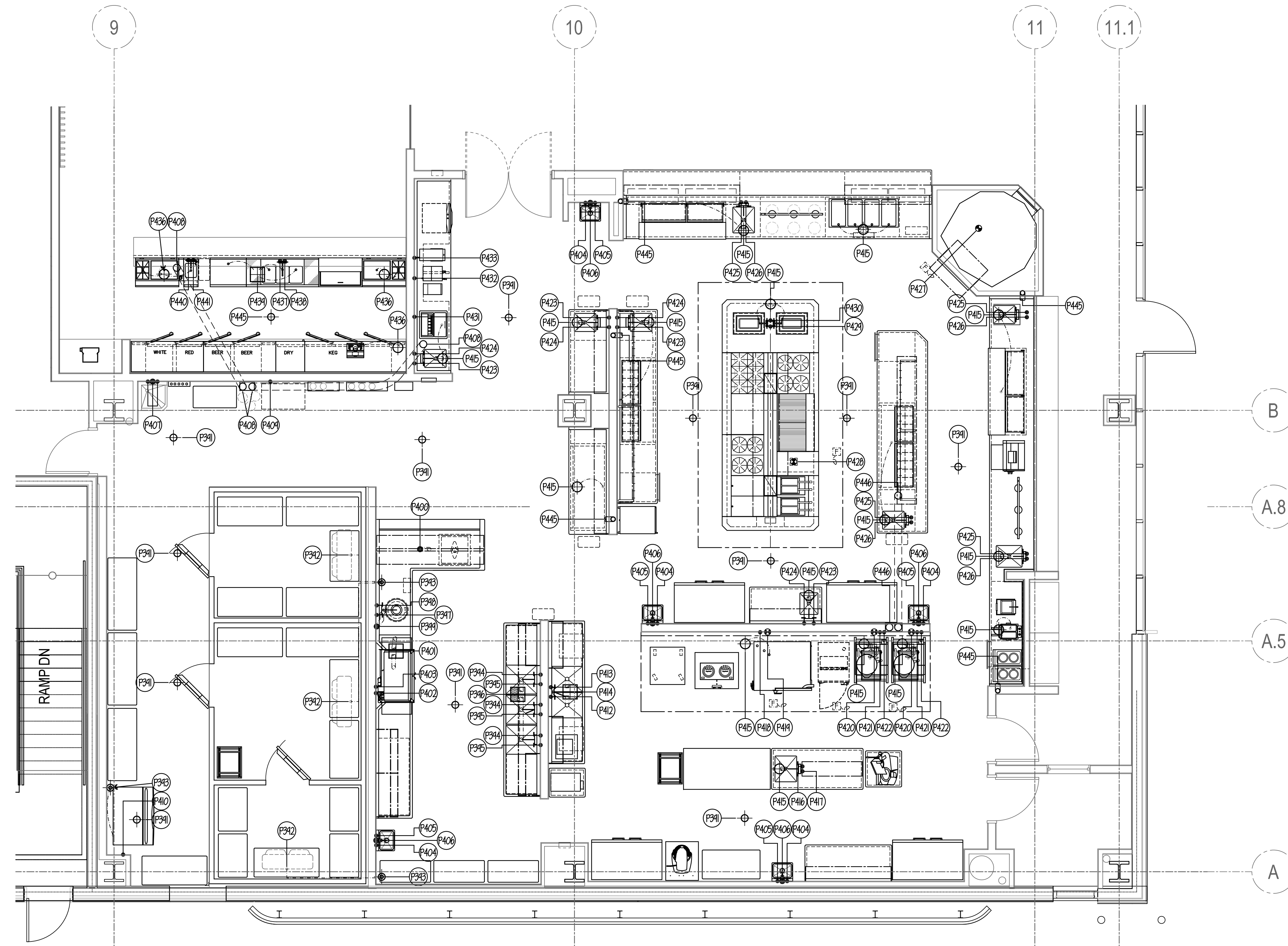
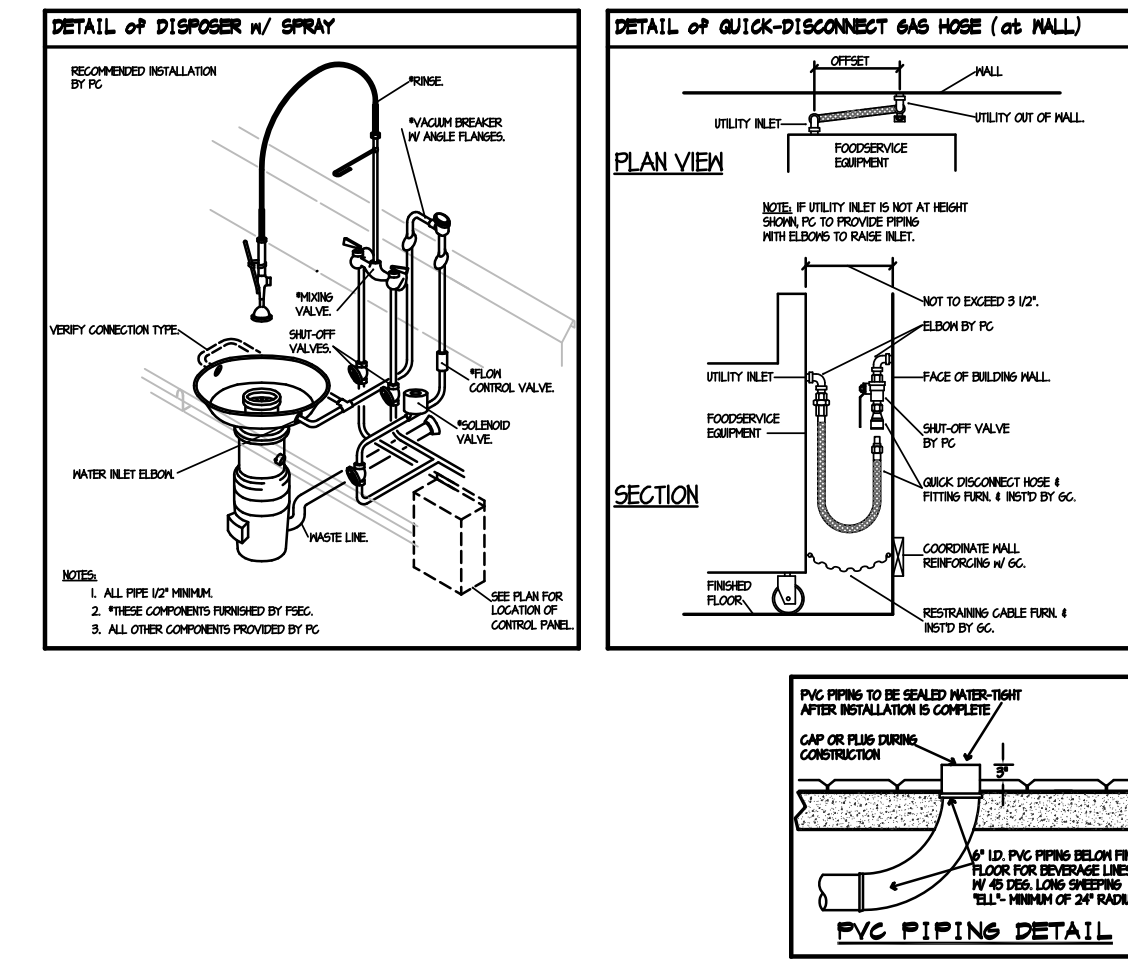
<b>RETAIL TO GO / RECEIVING / MEAT FABRICATION LAB</b>		PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		DATE DEC. 12, 2014
<b>FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN</b>		SHEET NO. <b>FSE-42</b> OF SHEETS
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		

PLUMBING NOTES

- (P38) 6" DIA. F.D. - TYPE #1. SEE SCHEDULE THIS SHEET. FLUSH W/ FIN. FLOOR.
- (P39) GC TO RUN DRAIN LINE FROM EACH BLOWER COIL TO 1/4" NOTE. GC TO HEAT TAPE ALL LINES THRU FREEZER. SLEEVE BY PC- THRU WALL AS REQ'D FOR DRAIN LINES.
- (P40) 6" DIA. 1/4" - TYPE #5. SEE SCHEDULE THIS SHEET.
- (P41) 3/4" H.H. (140 DEG) OUT OF WALL FOR POT SINK FAUCET.
- (P42) 3/4" C.J. OUT OF WALL FOR POT SINK FAUCET.
- (P43) 1/2" X 1/2" 1/4" - TYPE #6. SEE SCHEDULE THIS SHEET. W/ HALF-GRATE TOP WHERE SHOWN. RUN TO CENTRAL GREASE TRAP PER CODE.
- (P44) 1/2" H.H. OUT OF WALL FOR SPRAY ASSEMBLY.
- (P45) 1/2" C.J. OUT OF WALL, PC TO BRANCH TO DISPOSER, SPRAY ASSEMBLY, SOLENOID & VACUUM BREAKER AS REQUIRED.
- (P46) 3" WASTE OUT OF WALL FOR DISPOSER 1/4" PER FT. MIN. SLOPE REQ'D. NOTE. RUN TO SOLIDS COLLECTOR AND/OR G.T.
- (P47) 2" WASTE UP FROM FLOOR FOR SOILED DIGITABLE.
- (P48) 12" X 1/2" 1/4" - TYPE #7. SEE SCHEDULE THIS SHEET. PC TO RUN 1/2" DRAIN LINE FROM DISHWASHER TO 1/4" (30 G.P.M. MAX) - RUN TO CENTRAL GREASE TRAP.
- (P49) 1" H.H. (140 DEG) OUT OF WALL FOR DISHWASHER (26 GAL./HR. MAX @ 20 P.S.I.).
- (P50) 1/2" C.J. OUT OF WALL FOR DISHWASHER DRAIN WATER TEMPERING KIT.
- (P51) 1/2" H.H. OUT OF WALL FOR HAND SINK FAUCET.
- (P52) 1/2" C.J. OUT OF WALL FOR HAND SINK FAUCET.
- (P53) 1-1/2" WASTE OUT OF WALL FOR HAND SINK.
- (P54) MOP SINK & ALL SERVICES BY PC
- (P55) 6" I.D. PVC PIPE FURN. & INST'D BY PC - RUN BELOW FIN. FLOOR W/ SMOOTH 24" MIN. RADIUS SWEEPING BENDS & STUB UP WHERE SHOWN FOR SODA LINES.
- (P56) 1/2" C.J. OUT OF WALL FOR BAG-IN-BOX SODA SYSTEM.
- (P57) 3/4" C.J. OUT OF WALL FOR ICE MAKER W/ FILTER SYSTEM FURN. BY GC & INST'D BY PC
- (P58) 8 1/2" DIA. 1/4" - TYPE #6. SEE SCHEDULE THIS SHEET.
- (P59) 1/2" H.H. OUT OF WALL FOR SINK FAUCET.
- (P60) 1/2" C.J. OUT OF WALL FOR SINK FAUCET.
- (P61) 12" X 1/2" 1/4" - TYPE #7. SEE SCHEDULE THIS SHEET.
- (P62) 8 1/2" DIA. 1/4" - TYPE #6. SEE SCHEDULE THIS SHEET.
- (P63) 1/2" H.H. UP FROM FLOOR FOR SINK FAUCET.
- (P64) 1/2" C.J. UP FROM FLOOR FOR SINK FAUCET.
- (P65) 1" GAS (86,000 BTU) OUT OF WALL FOR COMBI OVEN W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC
- (P66) 1" GAS (85,000 BTU) OUT OF WALL FOR TILT KETTLE W/ FLEX GAS PIPE FURN. BY GC & INST'D W/ SHUT-OFF VALVE BY GC
- (P67) 1/2" H.H. OUT OF WALL FOR FILL FAUCET.
- (P68) 1/2" C.J. OUT OF WALL FOR FILL FAUCET.
- (P69) 1/2" H.H. OUT OF WALL FOR SINK FAUCET.
- (P70) 1/2" C.J. OUT OF WALL FOR SINK FAUCET.
- (P71) 1/2" H.H. UP FROM FLOOR FOR SINK FAUCET.
- (P72) 1/2" C.J. UP FROM FLOOR FOR SINK FAUCET.
- (P73) 1/2" C.J. UP FROM FLOOR FOR SINK FAUCET.
- (P74) 1/2" GAS (86,000 BTU) UP FROM FLOOR FOR OPEN HEARTH OVEN W/ ALL PIPING & SHUT-OFF VALVE BY GC.
- (P75) 1-1/2" GAS (814 MBTU) STUB-UP THRU FLOOR TO WARDROP. WARDROP ALL PRE-PIPED BY GC W/ FINAL CONNECTION & SHUT-OFF VALVE FURN. & INST'D BY GC
- (P76) 3/4" H.H. UP FROM FLOOR FOR WARDROP SINK FAUCETS (2).
- (P77) 3/4" C.J. UP FROM FLOOR FOR WARDROP SINK FAUCETS (2).
- (P78) 1/2" C.J. OUT OF WALL FOR SODA DISPENSER.
- (P79) 1/2" C.J. OUT OF WALL FOR COFFEE MAKER W/ FILTER SYSTEM FURN. BY GC & INST'D BY PC
- (P80) 1/2" C.J. OUT OF WALL FOR ICED TEA MAKER W/ FILTER SYSTEM FURN. BY GC & INST'D BY PC
- (P81) SPARE - NOT USED
- (P82) SPARE - NOT USED
- (P83) 8 1/2" DIA. 1/4" - TYPE #6. SEE SCHEDULE THIS SHEET.
- (P84) 1/2" H.H. UP FROM FLOOR FOR UNDERBAR THREE COMPARTMENT SINK FAUCET.
- (P85) 1/2" C.J. UP FROM FLOOR FOR UNDERBAR THREE COMPARTMENT SINK FAUCET.
- (P86) 12" X 1/2" 1/4" - TYPE #7. SEE SCHEDULE THIS SHEET.
- (P87) 1/2" H.H. UP FROM FLOOR FOR UNDERBAR HAND SINK FAUCET.
- (P88) 1/2" C.J. UP FROM FLOOR FOR UNDERBAR HAND SINK FAUCET.
- (P89) SPARE - NOT USED
- (P90) SPARE - NOT USED
- (P91) SPARE - NOT USED
- (P92) SPARE - NOT USED
- (P93) 4" I.D. PVC PIPE FURN. & INST'D BY PC- DOWN THRU WALL FROM ABOVE FIN. CEILING & OUT OF WALL 6" A.F.F. W/ SMOOTH RADIUS BENDS (NO 90'S) FOR REFRIGERATION LINES BY GC
- (P94) PC TO FURN. & INSTALL: 6" I.D. PVC PIPE DOWN THRU WALL FROM ABOVE FIN. CEILING INTO 14" X 14" ACCESS BOX FLUSH IN WALL 6" A.F.F. & 6" I.D. PVC PIPE OUT OF BOX- RUN BELOW FIN. FLOOR & STUB-UP 3" A.F.F. WHERE SHOWN FOR REFRIGERATION LINES BY GC
- (P95) SPARE - NOT USED
- (P96) SPARE - NOT USED
- (P97) SPARE - NOT USED
- (P98) SPARE - NOT USED

NOTE:  
 PC TO RUN ALL DRAINWASTE/CONDENSATE LINES FROM EQUIPMENT TO NEAREST F.D./F.S./M.H.U.O.  
 ALL PIPING, DRAINS, F.D.'S, ETC. TO BE SHOWN BY MECH. ENGINEER.  
 ALL P.V.'S, ATMOSPHERIC V.B.'S, V.B.'S, SHUT-OFF VALVES, SHOCK-STOPS, ETC., TO BE FURN. & INST'D BY PC OR GC

NOTE:  
 SEE SHEET FSE-42 FOR ALL PLUMBING ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<p><b>dk</b> DEMONICA KEMPER ARCHITECTS                  125 N. HALSTED STREET, SUITE 301                  CHICAGO, IL 60661                  P: 312.496.0000</p>	<p><b>K J W W</b> K.J.W. ENGINEERING                  1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563                  T: 630.527.2320</p>	<p><b>EFW</b> E.F. WHITNEY, INC.                  568 ANN STREET BIRMINGHAM, MI 48009                  T: 248.644.0990</p>
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<b>A LA CARTE RESTAURANT</b> <b>ISSUED FOR CONSTRUCTION</b> <b>FOOD SERVICE EQUIPMENT - PLUMBING ROUGH-IN PLAN</b>		PROJECT NO. CDB 810-048-023
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>		DATE DEC. 12, 2014
<b>FSE-43</b> OF SHEETS		SHEET NO.



**GENERAL NOTES FOR ROUGH-IN PLAN**

THIS PLAN IS TO BE USED FOR BIDDING PURPOSES ONLY & MUST BE REVISION BY GC USING ARCHITECTS FINAL WORKING DRAWINGS (ARCH., ELEC., PLUMB. & MECH.). GC SHALL FURNISH FULLY DIMENSIONED ROUGH-IN PLAN FOR ELECTRICAL, PLUMBING, VENTILATION, DEPRESSION & WALL OPENINGS WITHIN 30 DAYS AFTER AWARD OF CONTRACT. PLANS ARE TO BE REVISION & NOT TRACED-OFF OF ORIGINAL DRAWINGS.

ALL BUILDINGS AND/OR ROOM VENTILATION BY HVAC ENGINEER.

EXHAUST AIR QUANTITIES SHOWN ARE FOR COOKING EQUIPMENT EXHAUST HOODS ONLY. ADDITIONAL VENTILATION REQUIRED FOR KITCHEN AREAS TO BE ENGINEERED BY GC.

VC TO INTER-LOCK EXHAUST FANS W/ KITCHEN SUPPLY FANS.

HVAC ENGINEER TO WRITE HVAC SYSTEM SPEC FOR VC TO CHECK & BALANCE KITCHEN VENTILATION.

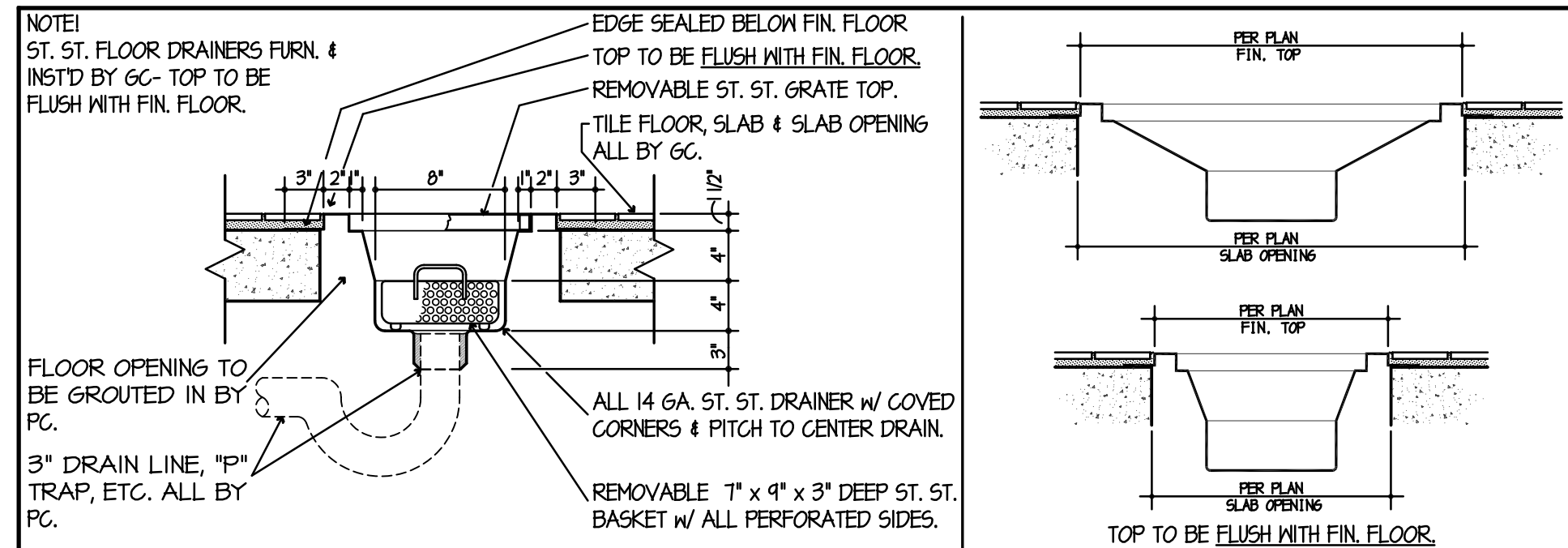
HVAC ENGINEER TO FILL-OUT & SUBMIT HEALTH DEPT. BALANCE REPORT.

VC TO BE RESPONSIBLE FOR ADJUSTING AIR QUANTITIES TO EXACTLY AS SHOWN.

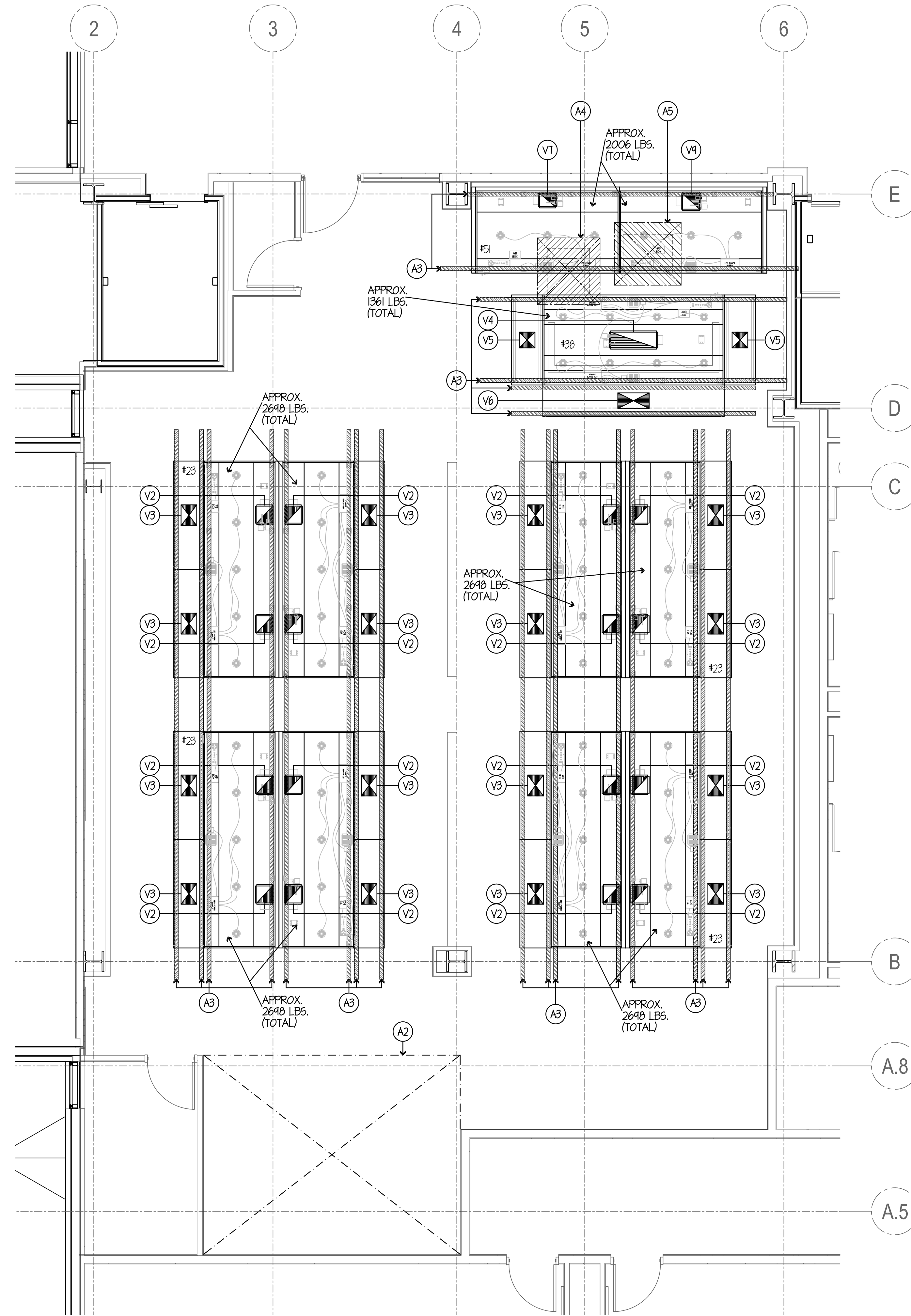
VC TO BE A CERTIFIED TESTING CO.

**VENTILATION ROUGH-IN CODE**

D.F.A. SON FROM ABOVE  
A.F.F. ABOVE FIN. FLOOR  
B.T.C. BRANCH TO CONNECTION  
V.C. HEATING/VENTILATION/AIR-CONDITIONING TRADES  
GC FOOD SERVICE EQUIPMENT CONTRACTOR



**SECTION DETAIL THRU ST. ST. FLOOR DRAINER**  
NO SCALE



**ALL PRODUCTION KITCHEN 1 EQUIPMENT TO BE BID UNDER ALTERNATE BID G-2**

**VENTILATION NOTES**

- (V1) OMIT - NOT USED
- (V2) 18" x 12" EXHAUST DUCT- 1811 CFM (MIN) EACH @ 0.45" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V3) 16" x 12" SUPPLY DUCT- 1448.5 CFM (MAX) EACH @ 0.53" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V4) 35" x 12" EXHAUST DUCT- 5102 CFM (MIN) TOTAL @ 0.34" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V5) 12" x 12" SUPPLY DUCT- 1020.5 CFM (MAX) EACH @ 0.18" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V6) 24" x 12" SUPPLY DUCT- 2041 CFM (MAX) TOTAL @ 0.18" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V7) 12" x 10" EXHAUST DUCT- 1384 CFM (MIN) TOTAL @ 0.12" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V8) OMIT - NOT USED
- (V9) 18" x 12" EXHAUST DUCT- 1814 CFM (MIN) TOTAL @ 0.21" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V10) OMIT - NOT USED
- (V11) SPARE - NOT USED
- (V12) SPARE - NOT USED

**GENERAL NOTES**

- (A1) (2) TWO HANGER CHANNELS FURN. & INST'D BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT CONDENSATE HOOD (WEIGHT AS SHOWN). GC TO VERIFY SIZE & LOCATION.
- (A2) BARE FLOOR THIS AREA- TO BE SMOOTH & LEVEL FOR BUILT-UP WALK-IN REFRIGERATOR/FREEZER BY GC- G-TILE FLOOR BY GC.
- (A3) (4) FOUR HANGER CHANNELS FURN. & INST'D BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT EXHAUST HOODS (WEIGHTS AS SHOWN). GC TO VERIFY ALL SIZES & LOCATIONS.
- (A4) 48" W x 51" DP OPENING BY GC THRU FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY GC. SEE DETAIL ON THIS SHEET.
- (A5) 51" W x 48" DP OPENING BY GC THRU FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY GC. SEE DETAIL ON THIS SHEET.
- (A6) SPARE - NOT USED



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

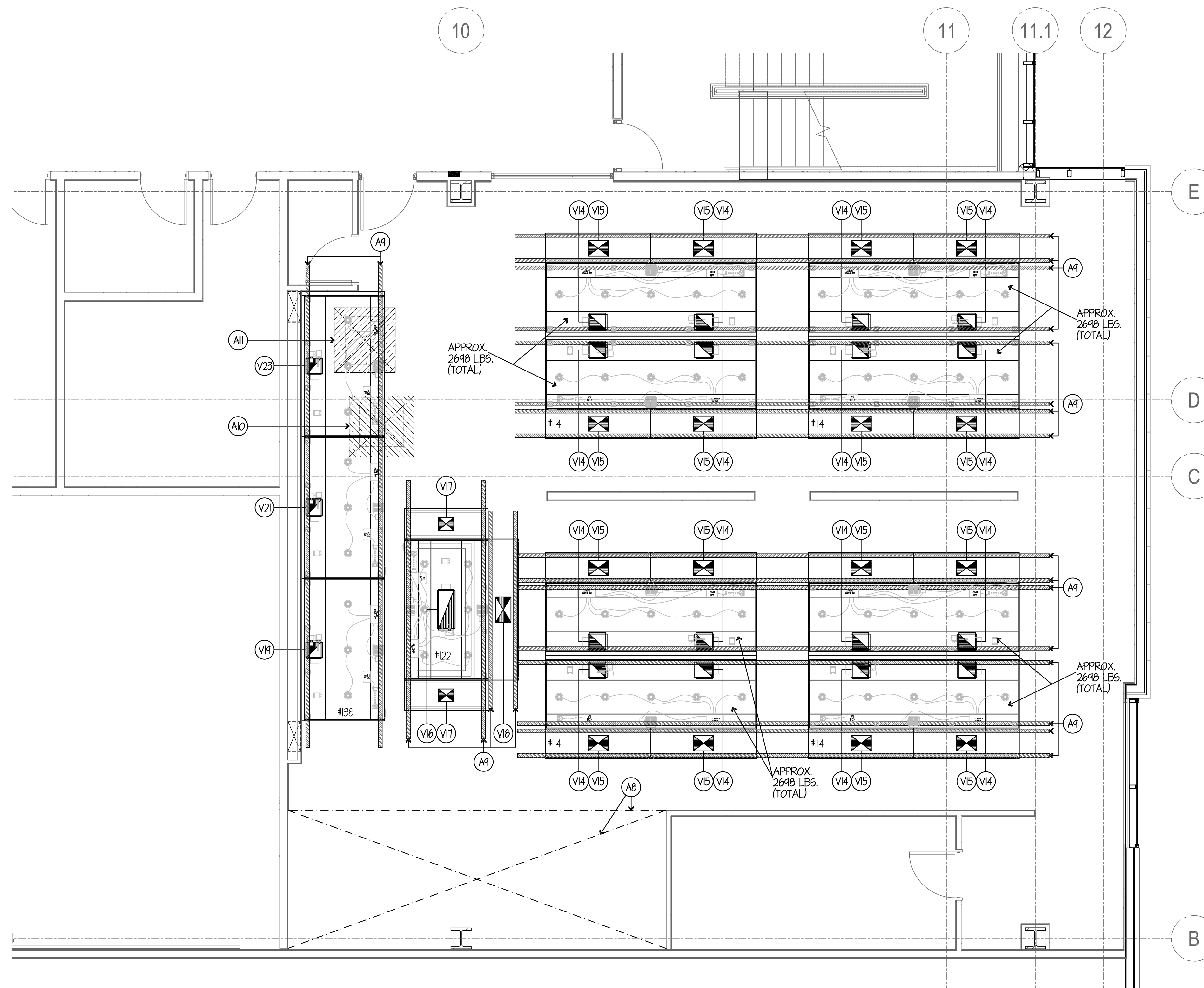
DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>PRODUCTION KITCHEN 1 ISSUED FOR CONSTRUCTION</b>	
<b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b>	
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>	
PROJECT NO. CDB 810-048-023	DATE DEC. 12, 2014
SHEET NO. <b>FSE-45</b> OF SHEETS	



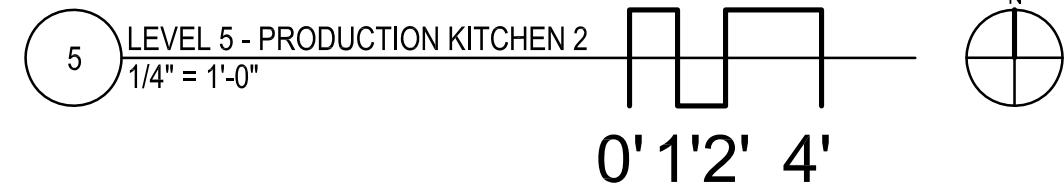
**VENTILATION NOTES**

- (V1) THRU (V12) SEE SHEET FSE-45.
- (V13) OMIT - NOT USED
- (V14) 13" x 12" EXHAUST DUCT- 1811 CFM (MIN) EACH @ 0.45" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V15) 16" x 12" SUPPLY DUCT- 1448.5 CFM (MAX) EACH @ 0.53" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V16) 30" x 12" EXHAUST DUCT- 4432 CFM (MIN) TOTAL @ 0.42" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V17) 12" x 10" SUPPLY DUCT- 886.5 CFM (MAX) EACH @ 0.21" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V18) 20" x 12" SUPPLY DUCT- 1713 CFM (MAX) TOTAL @ 0.21" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V19) 12" x 11" EXHAUST DUCT- 1615 CFM (MIN) TOTAL @ 0.17" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V20) OMIT - NOT USED
- (V21) 12" x 11" EXHAUST DUCT- 1591 CFM (MIN) TOTAL @ 0.16" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V22) OMIT - NOT USED
- (V23) 12" x 11" EXHAUST DUCT- 1561 CFM (MIN) TOTAL @ 0.16" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V24) OMIT - NOT USED
- (V25) SPARE - NOT USED
- (V26) SPARE - NOT USED

**GENERAL NOTES**

- (A1) THRU (A6) SEE SHEET FSE-45.
- (A7) (2) TWO HANGER CHANNELS FURN. & INST'D BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT CONDENSATE HOOD (HEIGHT AS SHOWN). GC TO VERIFY SIZE & LOCATION.
- (A8) BARE FLOOR THIS AREA- TO BE SMOOTH & LEVEL FOR BUILT-UP WALK-IN REFRIGERATOR/FREEZER BY GC- G.TILE FLOOR BY GC.
- (A9) (4) FOUR HANGER CHANNELS FURN. & INST'D BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT EXHAUST HOODS (HEIGHTS AS SHOWN). GC TO VERIFY ALL SIZES & LOCATIONS.
- (A10) 48" W x 51" DP OPENING BY GC THRU FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY PC. SEE DETAIL ON SHEET FSE-45.
- (A11) 51" W x 48" DP OPENING BY GC THRU FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY PC. SEE DETAIL ON SHEET FSE-45.
- (A12) SPARE - NOT USED

**NOTE . . .**  
SEE SHEET FSE-45 FOR ALL VENTILATION ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

<b>PRODUCTION KITCHEN 2 ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-46</b> OF SHEETS



**GENERAL NOTES FOR ROUGH-IN PLAN**

THIS PLAN IS TO BE USED FOR BIDDING PURPOSES ONLY & MUST BE REVIEWED BY GC USING ARCHITECTS FINAL WORKING DRAWINGS (ARCH., ELEC., PLUMB. & VENT.). GC SHALL FURNISH FULLY DIMENSIONED ROUGH-IN PLAN FOR ELECTRICAL, PLUMBING, VENTILATION, DEPRESSION, & WALL OPENINGS WITHIN 30 DAYS AFTER AWARD OF CONTRACT. PLANS ARE TO BE REPRINED & NOT TRACED-OFF OF ORIGINAL DRAWINGS.

ALL BUILDINGS AND/OR ROOM VENTILATION BY HVAC ENGINEER.

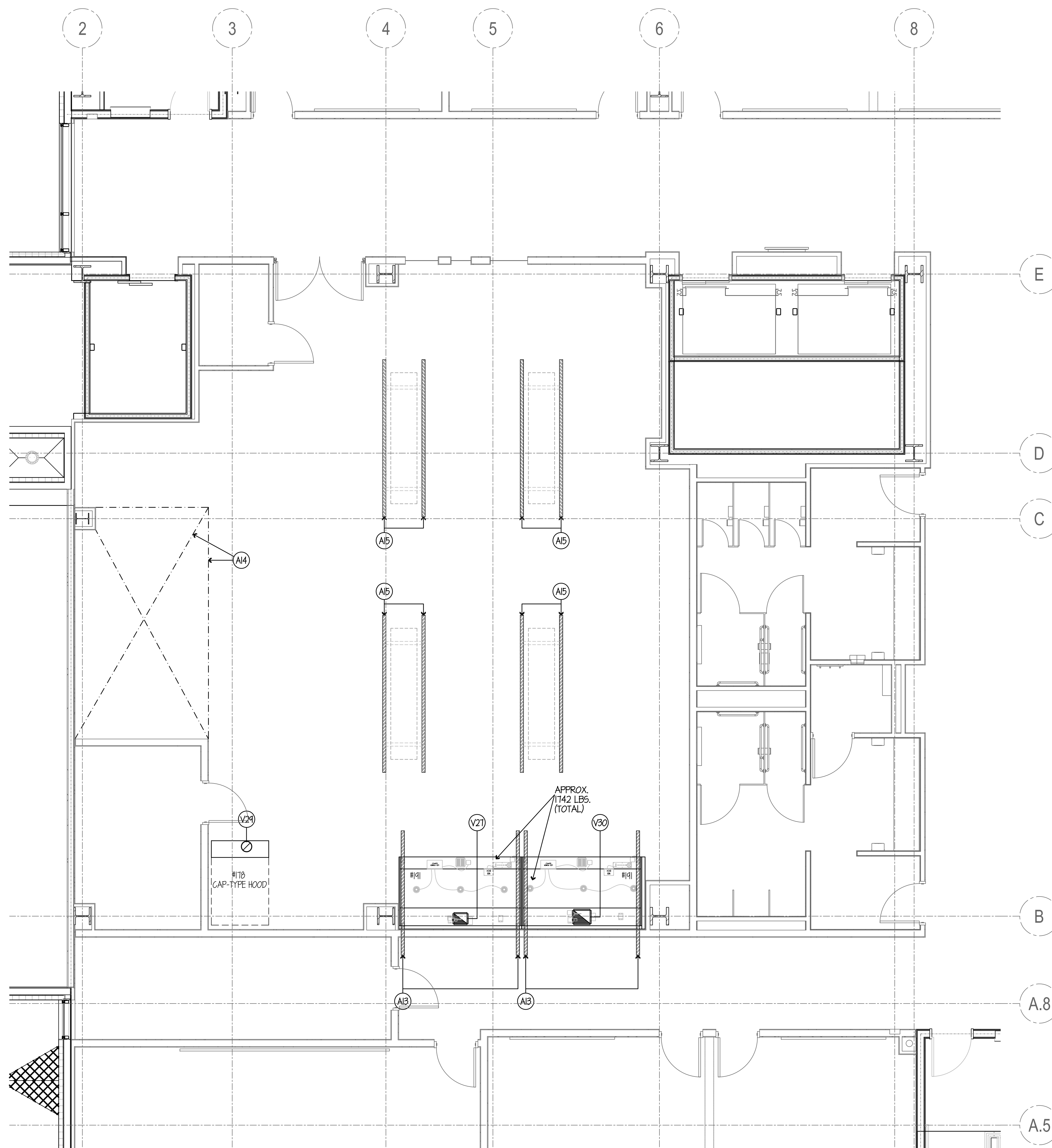
EXHAUST AIR QUANTITIES SHOWN ARE FOR COOKING EQUIPMENT EXHAUST HOODS ONLY. ADDITIONAL VENTILATION REQUIRED FOR KITCHEN AREAS TO BE ENGINEERED BY VC.

VC TO INTER-LOCK EXHAUST FANS W/ KITCHEN SUPPLY FANS.

HVAC ENGINEER TO WRITE HVAC SYSTEM SPEC. FOR VC TO CHECK & BALANCE KITCHEN VENTILATION. HVAC ENGINEER TO FILL-OUT & SUBMIT HEALTH DEPT. BALANCE REPORT. VC TO BE RESPONSIBLE FOR ADJUSTING AIR QUANTITIES TO EXACTLY AS SHOWN. VC TO BE A CERTIFIED TESTING CO.

**VENTILATION ROUGH-IN CODE**

D.P.A. ROOM FROM ABOVE  
R.P.P. ABOVE FIN. FLOOR  
B.T.C. BRANCH TO CONNECTION  
V.C. MECHANICAL/VENTILATION/AIR-CONDITIONING TRADES  
GC FOOD SERVICE EQUIPMENT CONTRACTOR

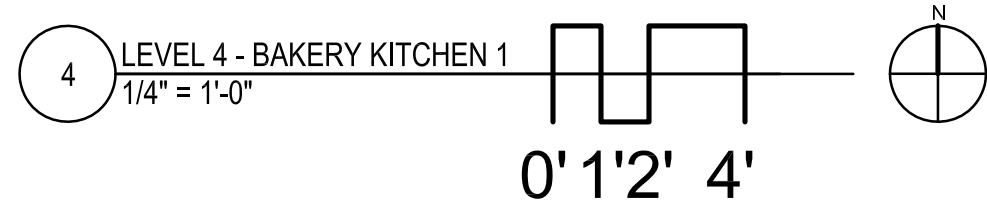
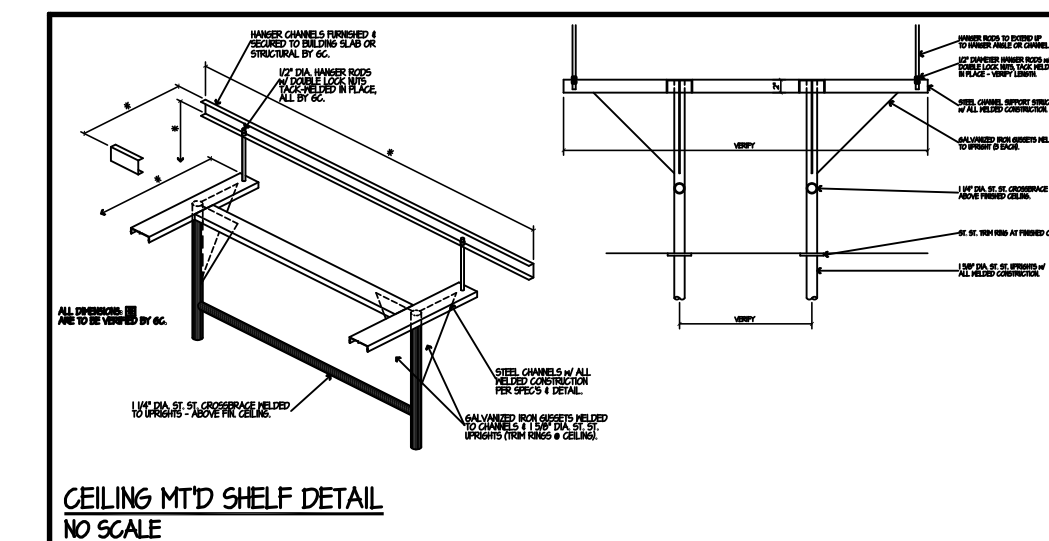


**VENTILATION NOTES**

- (V1) THRU (V2) SEE SHEET FSE-45.
- (V3) THRU (V26) SEE SHEET FSE-46.
- (V27) 15" x 12" EXHAUST DUCT- 2224 CFM (MIN) TOTAL @ 0.44" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V28) OMIT - NOT USED
- (V29) 10" DIA. EXHAUST DUCT- 1200 CFM (MIN) TOTAL @ 0.06" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V30) 12" x 11" EXHAUST DUCT- 1626 CFM (MIN) TOTAL @ 0.29" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V31) OMIT - NOT USED
- (V32) SPARE - NOT USED
- (V33) SPARE - NOT USED

**GENERAL NOTES**

- (A1) THRU (A6) SEE SHEET FSE-45.
- (A7) THRU (A12) SEE SHEET FSE-46.
- (A13) (2) TWO HANGER CHANNELS FURN. & INSTD BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT EXHAUST HOODS (HEIGHTS AS SHOWN). GC TO VERIFY ALL SIZES & LOCATIONS.
- (A14) BARE FLOOR THIS AREA- TO BE SMOOTH & LEVEL FOR BUILT-UP WALK-IN REFRIGERATOR/FREEZER BY GC- G.TILE FLOOR BY GC.
- (A15) (2) TWO HANGER CHANNELS (EACH LOCATION) FURN. & INSTD BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT HANGING SHELVES. SEE DETAIL THIS SHEET. GC TO VERIFY ALL SIZES & LOCATIONS & PROVIDE ANTI-SWAY BRACING AS REQ'D.
- (A16) SPARE - NOT USED

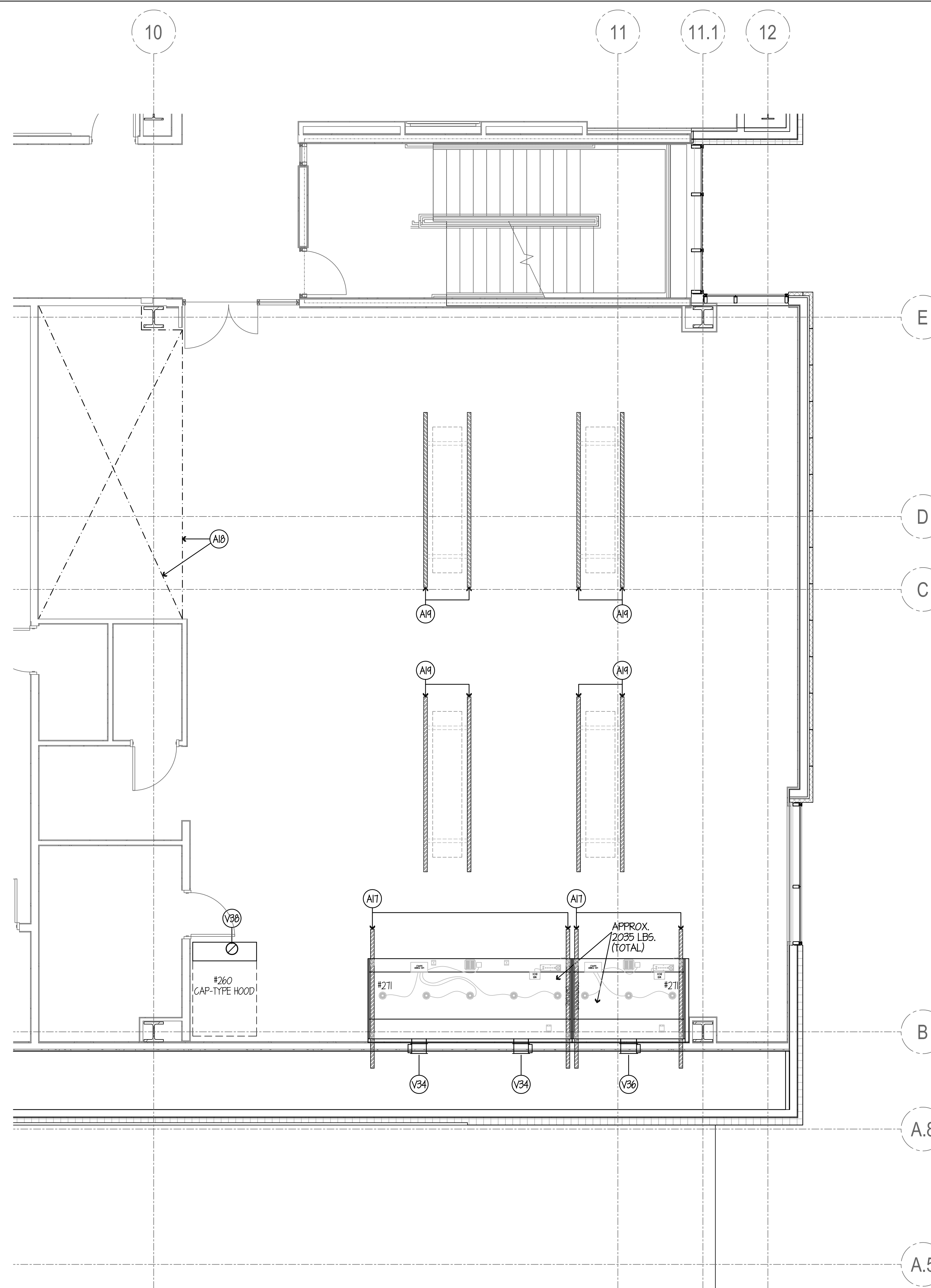


NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/13

<p><b>dk</b> DEMONICA KEMPER ARCHITECTS 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000</p>	<p><b>KJWW</b> K.J.W. ENGINEERING 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320</p>	<p><b>EFW</b> E.F. WHITNEY, INC. 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990</p>
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<p><b>BAKERY KITCHEN 1</b> <b>ISSUED FOR CONSTRUCTION</b></p>		PROJECT NO. CDB 810-048-023
<p><b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b></p>		DATE DEC. 12, 2014
<p><b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b></p>		SHEET NO. <b>FSE-47</b> OF SHEETS



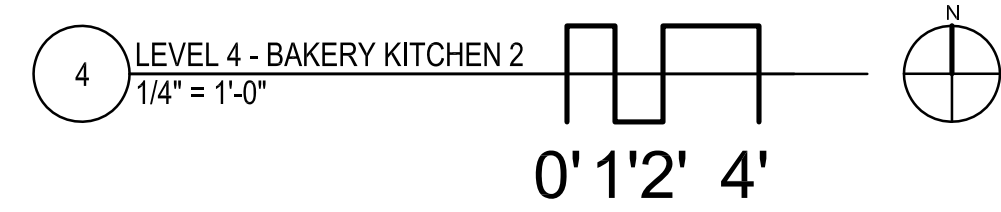
**VENTILATION NOTES**

- (V1) THRU (V12) SEE SHEET FSE-45.
- (V13) THRU (V26) SEE SHEET FSE-46.
- (V27) THRU (V33) SEE SHEET FSE-47.
- (V34) 12" x 4" EXHAUST DUCT- 1272.5 CFM (MIN) EACH @ 0.33" S.P. AT DUCT COLLAR. DUCT OUT REAR OF HOOD. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V35) OMIT - NOT USED
- (V36) 18" x 12" EXHAUST DUCT- 1040 CFM (MIN) TOTAL @ 0.44" S.P. AT DUCT COLLAR. DUCT OUT REAR OF HOOD. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V37) OMIT - NOT USED
- (V38) 10" DIA. EXHAUST DUCT- 1200 CFM (MIN) TOTAL @ 0.06" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V39) SPARE - NOT USED
- (V40) SPARE - NOT USED

**GENERAL NOTES**

- (A1) THRU (A6) SEE SHEET FSE-45.
- (A7) THRU (A12) SEE SHEET FSE-46.
- (A13) THRU (A16) SEE SHEET FSE-47.
- (A17) (2) TWO HANGER CHANNELS FURN. & INSTD BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT EXHAUST HOODS (WEIGHTS AS SHOWN). GC TO VERIFY ALL SIZES & LOCATIONS.
- (A18) BARE FLOOR THIS AREA- TO BE SMOOTH & LEVEL FOR BUILT-UP WALK-IN REFRIGERATOR/FREEZER BY GC- 0.TILE FLOOR BY GC.
- (A19) (2) TWO HANGER CHANNELS (EACH LOCATION) FURN. & INSTD BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT HANGING SHELVES. SEE DETAIL ON SHEET FSE-47. GC TO VERIFY ALL SIZES & LOCATIONS & PROVIDE ANTI-SWAY BRACING AS REQ'D.
- (A20) SPARE - NOT USED

**NOTE . . .**  
SEE SHEET FSE-47 FOR ALL VENTILATION ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

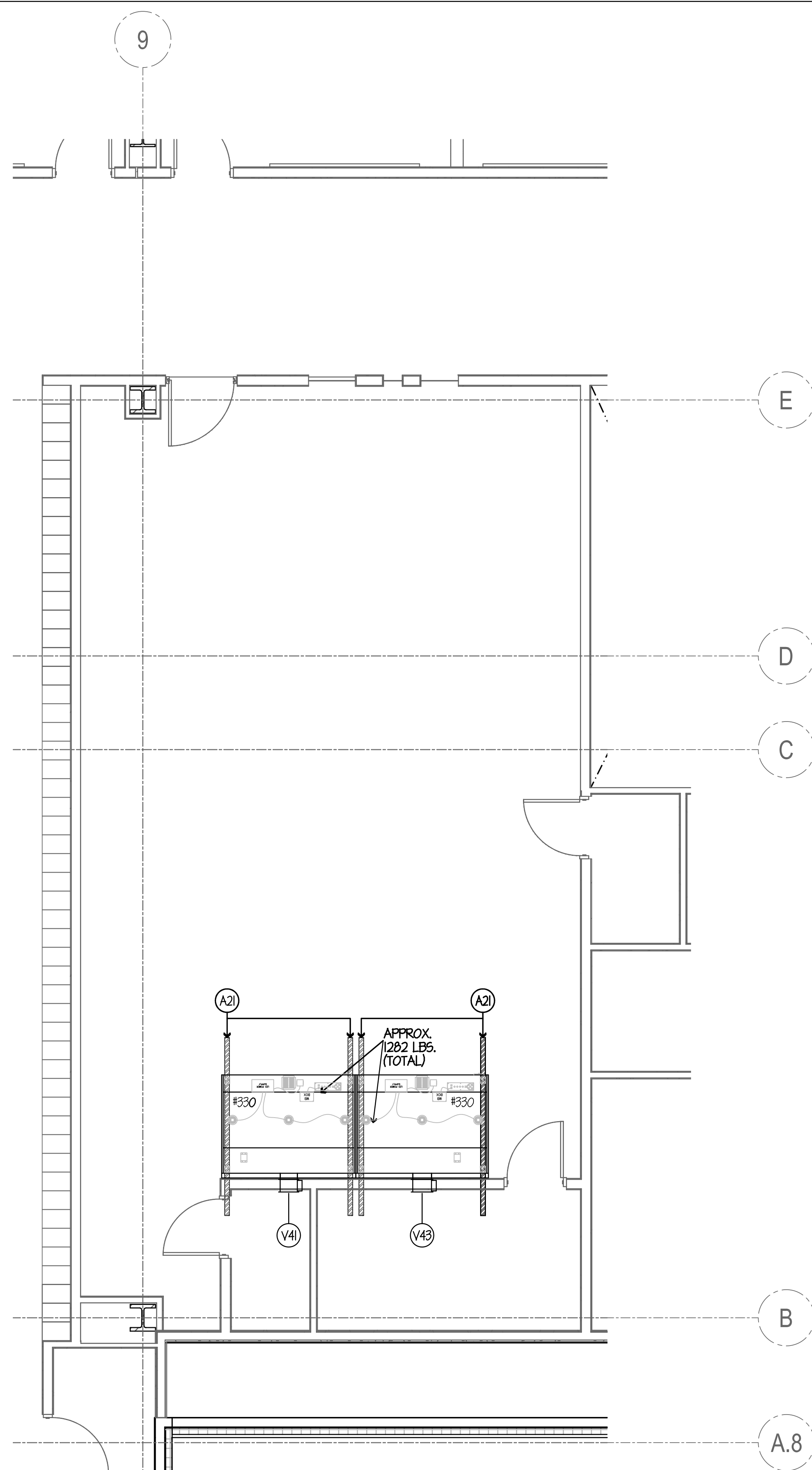
**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>BAKERY KITCHEN 2</b>		PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		DATE DEC. 12, 2014
<b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b>		SHEET NO. <b>FSE-48</b> OF SHEETS
<b>CITY CENTER CAMPUS</b>		
<b>JOLIET JUNIOR COLLEGE</b>		





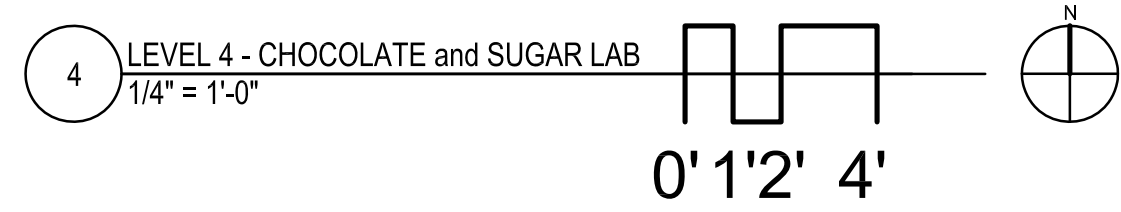
**VENTILATION NOTES**

- (V1) THRU (V12) SEE SHEET FSE-45.
- (V13) THRU (V26) SEE SHEET FSE-46.
- (V27) THRU (V35) SEE SHEET FSE-47.
- (V34) THRU (V40) SEE SHEET FSE-48.
- (V41) 11" x 8" EXHAUST DUCT- 1044 CFM (MIN) TOTAL @ 0.20" S.P. AT DUCT COLLAR. DUCT OUT REAR OF HOOD. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V42) OMIT - NOT USED
- (V43) 12" x 8" EXHAUST DUCT- 1184 CFM (MIN) TOTAL @ 0.30" S.P. AT DUCT COLLAR. DUCT OUT REAR OF HOOD. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V44) OMIT - NOT USED
- (V45) SPARE - NOT USED
- (V46) SPARE - NOT USED

**GENERAL NOTES**

- (A1) THRU (A6) SEE SHEET FSE-45.
- (A7) THRU (A12) SEE SHEET FSE-46.
- (A13) THRU (A16) SEE SHEET FSE-47.
- (A17) THRU (A20) SEE SHEET FSE-48.
- (A21) (2) TMD HANGER CHANNELS FURN. # INST'D BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT EXHAUST HOODS (WEIGHTS AS SHOWN). GC TO VERIFY ALL SIZES & LOCATIONS.
- (A22) SPARE - NOT USED
- (A23) SPARE - NOT USED

**NOTE . . .**  
SEE SHEET FSE-47 FOR ALL VENTILATION ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

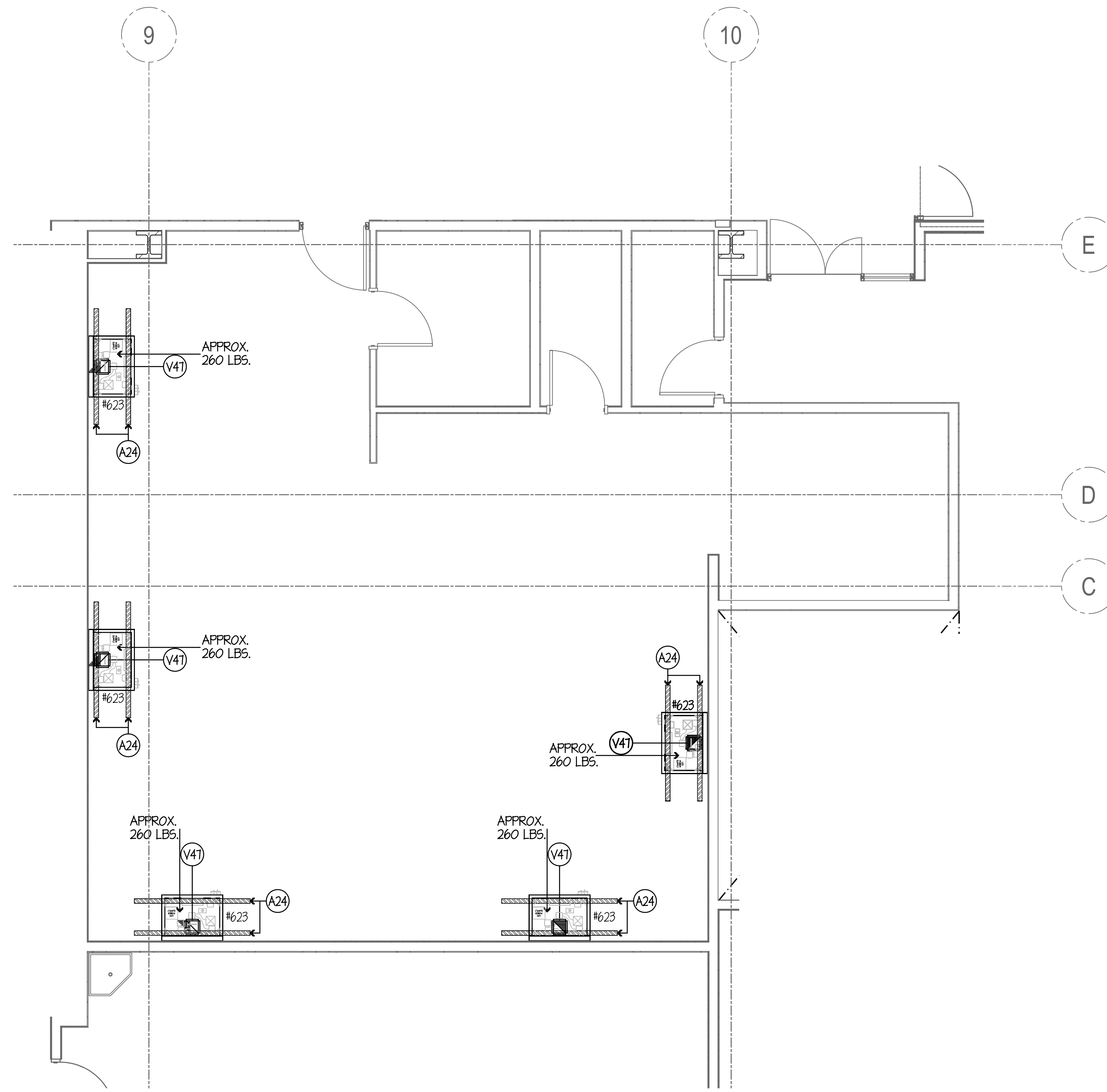
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W.W ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>CHOCOLATE and SUGAR LAB ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-49</b> OF SHEETS



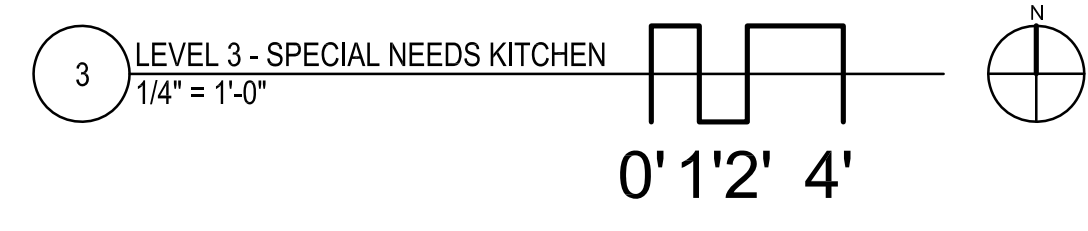
**VENTILATION NOTES**

- (V1) THRU (V12) SEE SHEET FSE-45.
- (V13) THRU (V26) SEE SHEET FSE-46.
- (V27) THRU (V33) SEE SHEET FSE-47.
- (V34) THRU (V40) SEE SHEET FSE-48.
- (V41) THRU (V46) SEE SHEET FSE-49.
- (V47) 8" x 8" EXHAUST DUCT- 404 CFM (MIN) EACH @ 0.21" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V48) SPARE - NOT USED

**GENERAL NOTES**

- (A1) THRU (A6) SEE SHEET FSE-45.
- (A7) THRU (A12) SEE SHEET FSE-46.
- (A13) THRU (A16) SEE SHEET FSE-47.
- (A17) THRU (A20) SEE SHEET FSE-48.
- (A21) THRU (A23) SEE SHEET FSE-49.
- (A24) (2) TWO HANGER CHANNELS FURN. & INSTD BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT EXHAUST HOODS (HEIGHTS AS SHOWN). GC TO VERIFY ALL SIZES & LOCATIONS.
- (A25) SPARE - NOT USED
- (A26) SPARE - NOT USED

**NOTE . . .**  
SEE SHEET FSE-51 FOR ALL VENTILATION ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>SPECIAL NEEDS KITCHEN ISSUED FOR CONSTRUCTION</b>	
<b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b>	
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>	
PROJECT NO. CDB 810-048-023	DATE DEC. 12, 2014
SHEET NO. <b>FSE-50</b> OF SHEETS	

**GENERAL NOTES FOR ROUGH-IN PLAN**

THIS PLAN IS TO BE USED FOR BIDDING PURPOSES ONLY & MUST BE RE-RUN BY GC USING ARCHITECTS FINAL WORKING DRAWINGS (ARCH., ELEC., PLUMB. & VENT.), GC SHALL FURNISH FULLY DIMENSIONED ROUGH-IN PLAN FOR ELECTRICAL, PLUMBING, VENTILATION, DEPRESSION & WALL OPENINGS WITHIN 30 DAYS AFTER AWARD OF CONTRACT. PLANS ARE TO BE RE-RUN & NOT TRACED-OFF OF ORIGINAL DRAWINGS.

ALL BUILDING AND/OR ROOM VENTILATION BY HVAC ENGINEER.

EXHAUST AIR QUANTITIES SHOWN ARE FOR COOKING EQUIPMENT EXHAUST HOODS ONLY. ADDITIONAL VENTILATION REQUIRED FOR KITCHEN AREAS TO BE ENGINEERED BY GC.

VC TO INTER-LOCK EXHAUST FANS W/ KITCHEN SUPPLY FANS.

HVAC ENGINEER TO WRITE HVAC SYSTEM SPEC FOR VC TO CHECK & BALANCE KITCHEN VENTILATION. HVAC ENGINEER TO FILL-OUT & SUBMIT HEALTH DEPT. BALANCE REPORT. VC TO BE RESPONSIBLE FOR ADJUSTING AIR QUANTITIES TO EXACTLY AS SHOWN. VC TO BE A CERTIFIED TESTING CO.

**VENTILATION ROUGH-IN CODE**

D.F.A. DOWN FROM ROOF  
A.F.F. ABOVE FIN. FLOOR  
B.T.G. BRANCH TO CONNECTION  
VC HEATING/VENTILATING/ AIR-CONDITIONING TRUNKS  
F.O.S. FOOD SERVICE EQUIPMENT CONTRACTOR

**NOTE:**

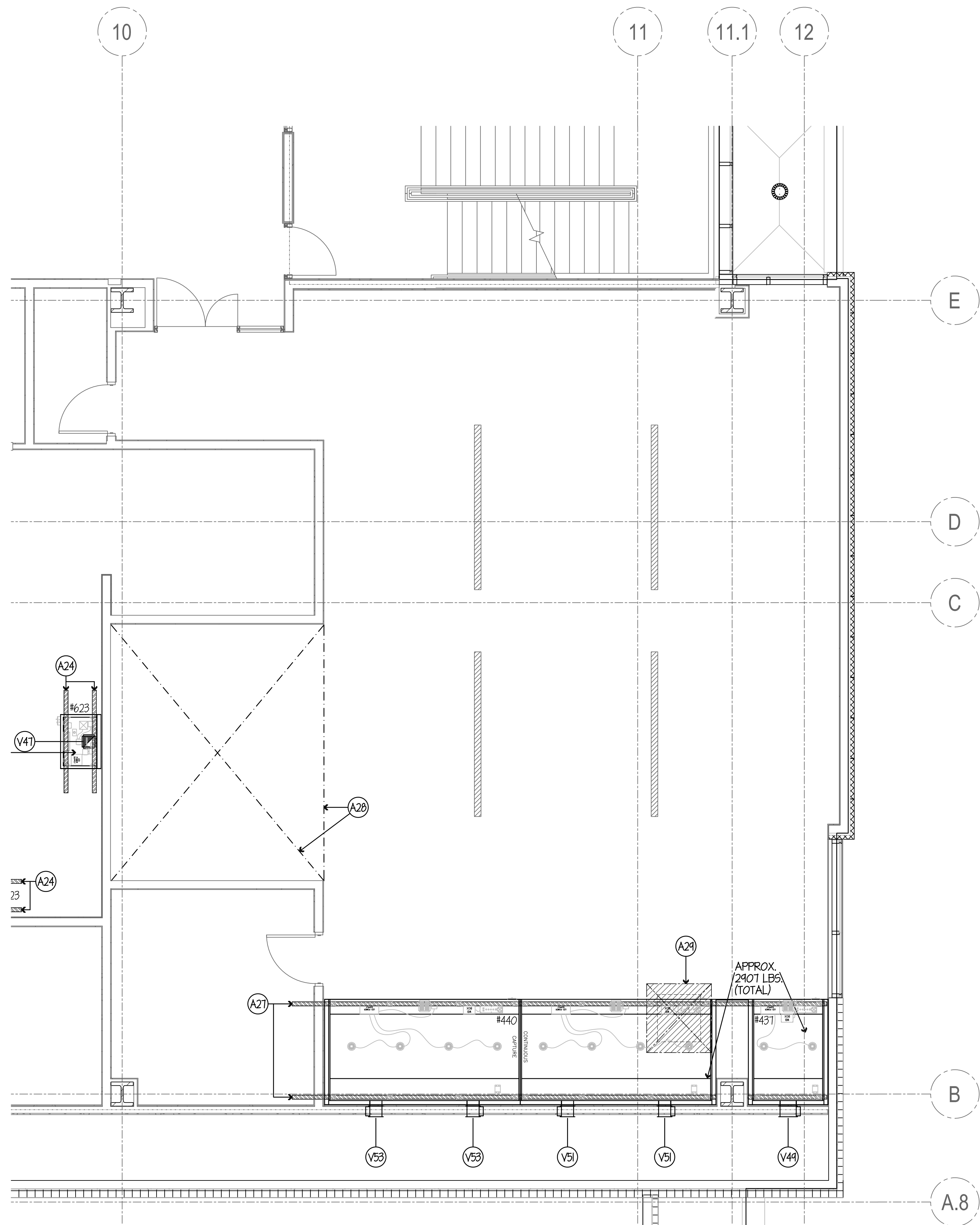
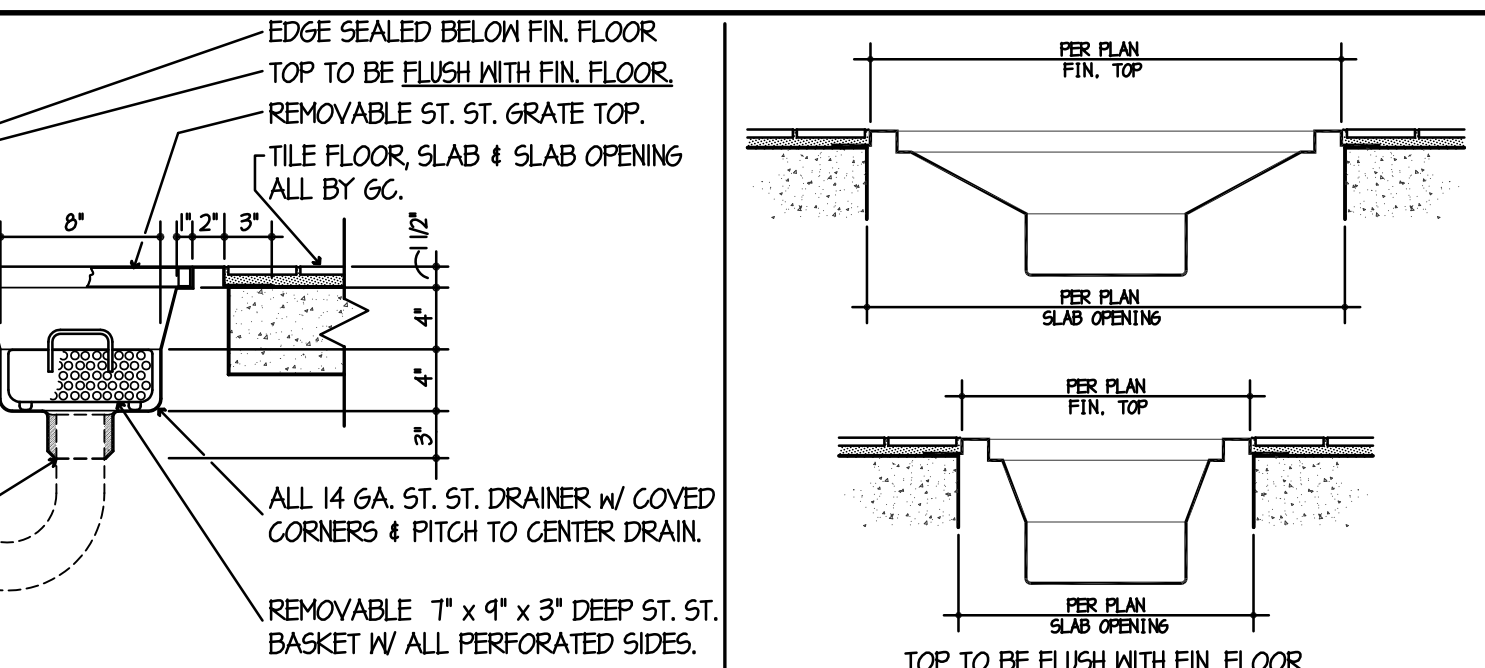
ST. ST. FLOOR DRAINER FURN. BY GC & INSTD BY FC. TOP TO BE FLUSH WITH FIN. FLOOR.

EDGE SEALED BELOW FIN. FLOOR TOP TO BE FLUSH WITH FIN. FLOOR. REMOVABLE ST. ST. GRATE TOP. TILE FLOOR, SLAB & SLAB OPENING ALL BY GC.

FLOOR OPENING TO BE GROUTED IN BY FC. 3" DRAIN LINE, 1" TRAP, ETC. ALL BY FC.

ALL 1/4 GA. ST. ST. DRAINER W/ COVERED CORNERS & PITCH TO CENTER DRAIN. REMOVABLE 1" x 9" x 3" DEEP ST. ST. BASKET W/ ALL PERFORATED SIDES. TOP TO BE FLUSH WITH FIN. FLOOR.

**SECTION DETAIL THRU ST. ST. FLOOR DRAINER**  
NO SCALE

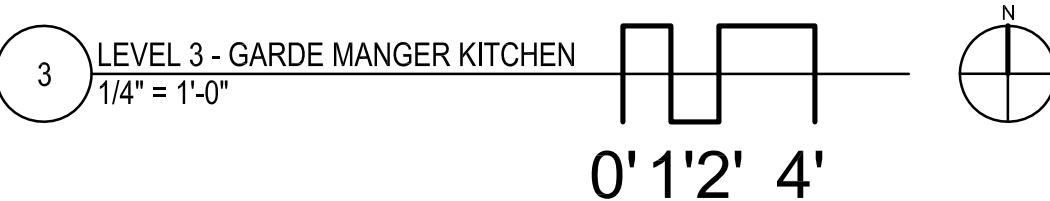


**VENTILATION NOTES**

- (V1) THRU (V12) SEE SHEET FSE-45.
- (V13) THRU (V26) SEE SHEET FSE-46.
- (V27) THRU (V33) SEE SHEET FSE-47.
- (V34) THRU (V40) SEE SHEET FSE-48.
- (V41) THRU (V46) SEE SHEET FSE-44.
- (V47) THRU (V48) SEE SHEET FSE-50.
- (V44) 12" x 8" EXHAUST DUCT- 1131 CFM (MIN) TOTAL @ 0.53" S.P. AT DUCT COLLAR. DUCT OUT REAR OF HOOD. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V50) OMIT - NOT USED
- (V51) 9" x 8" EXHAUST DUCT- 834.5 CFM (MIN) EACH @ 0.23" S.P. AT DUCT COLLAR. DUCT OUT REAR OF HOOD. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V52) OMIT - NOT USED
- (V53) 9" x 8" EXHAUST DUCT- 803.5 CFM (MIN) EACH @ 0.21" S.P. AT DUCT COLLAR. DUCT OUT REAR OF HOOD. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V54) OMIT - NOT USED
- (V55) SPARE - NOT USED
- (V56) SPARE - NOT USED

**GENERAL NOTES**

- (A1) THRU (A6) SEE SHEET FSE-45.
- (A7) THRU (A12) SEE SHEET FSE-46.
- (A13) THRU (A16) SEE SHEET FSE-47.
- (A17) THRU (A20) SEE SHEET FSE-48.
- (A21) THRU (A23) SEE SHEET FSE-44.
- (A24) THRU (A26) SEE SHEET FSE-50.
- (A27) (4) FOUR HANGER CHANNELS FURN. & INSTD BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT EXHAUST HOODS (HEIGHTS AS SHOWN). GC TO VERIFY ALL SIZES & LOCATIONS.
- (A28) BARE FLOOR THIS AREA- TO BE SMOOTH & LEVEL FOR BUILT-UP WALK-IN REFRIGERATOR/FREEZER BY GC- Q.TILE FLOOR BY GC.
- (A29) 48" W x 51" DP OPENING BY GC THRU FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INSTD BY FC. SEE DETAIL ON THIS SHEET.
- (A30) SPARE - NOT USED
- (A31) SPARE - NOT USED



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

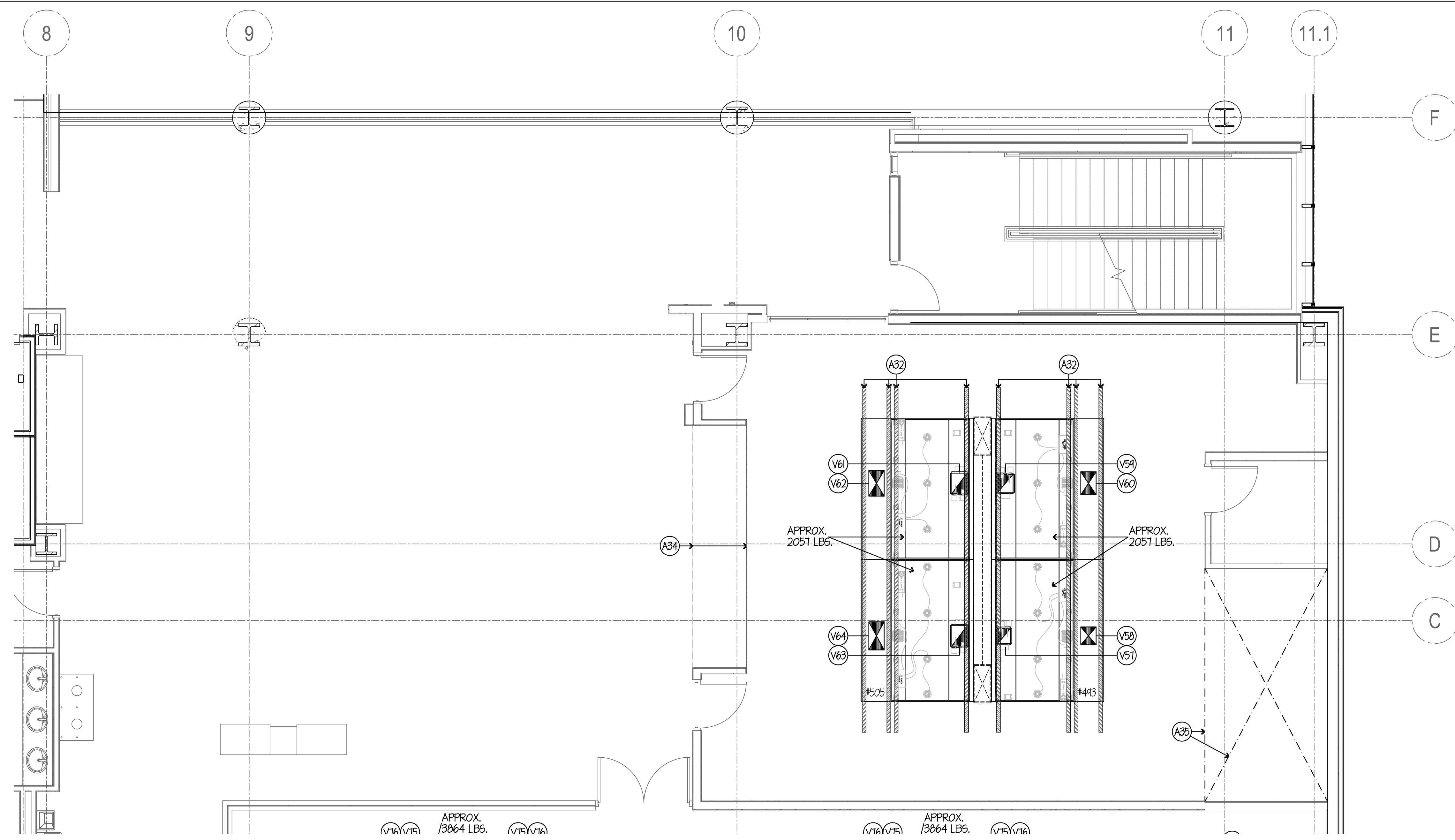
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>GARDE MANGER KITCHEN</b> <b>ISSUED FOR CONSTRUCTION</b> <b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b>		PROJECT NO. CDB 810-048-023
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>		DATE DEC. 12, 2014
<b>FSE-51</b> OF SHEETS		SHEET NO.





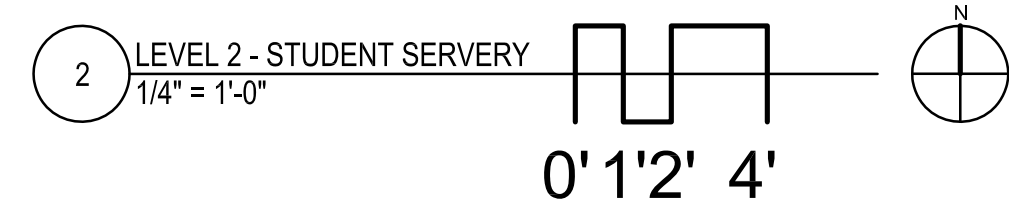
**VENTILATION NOTES**

- (V1) THRU (V12) SEE SHEET FSE-45.
- (V13) THRU (V26) SEE SHEET FSE-46.
- (V27) THRU (V33) SEE SHEET FSE-41.
- (V34) THRU (V40) SEE SHEET FSE-48.
- (V41) THRU (V46) SEE SHEET FSE-44.
- (V47) THRU (V48) SEE SHEET FSE-50.
- (V49) THRU (V56) SEE SHEET FSE-51.
- (V57) 12" x 12" EXHAUST DUCT- 1686 CFM (MIN) TOTAL @ 0.24" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V58) 16" x 12" SUPPLY DUCT- 1348 CFM (MAX) TOTAL @ 0.26" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V59) 12" x 12" EXHAUST DUCT- 1665 CFM (MIN) TOTAL @ 0.28" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V60) 16" x 12" SUPPLY DUCT- 1332 CFM (MAX) TOTAL @ 0.25" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V61) 12" x 11" EXHAUST DUCT- 1555 CFM (MIN) TOTAL @ 0.26" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V62) 14" x 12" SUPPLY DUCT- 1244 CFM (MAX) TOTAL @ 0.22" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V63) 12" x 9" EXHAUST DUCT- 1225 CFM (MIN) TOTAL @ 0.20" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V64) 12" x 12" SUPPLY DUCT- 980 CFM (MAX) TOTAL @ 0.14" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V65) OMIT - NOT USED
- (V66) SPARE - NOT USED
- (V67) SPARE - NOT USED

**GENERAL NOTES**

- (A1) THRU (A6) SEE SHEET FSE-45.
- (A7) THRU (A12) SEE SHEET FSE-46.
- (A13) THRU (A16) SEE SHEET FSE-41.
- (A17) THRU (A20) SEE SHEET FSE-48.
- (A21) THRU (A23) SEE SHEET FSE-44.
- (A24) THRU (A26) SEE SHEET FSE-50.
- (A27) THRU (A31) SEE SHEET FSE-51.
- (A32) (4) FOUR HANGER CHANNELS FURN. & INST'D BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT EXHAUST HOODS (HEIGHTS AS SHOWN). GC TO VERIFY ALL SIZES & LOCATIONS.
- (A35) OMIT - NOT USED
- (A34) DROP-SOFFIT BY GC- MIN. 7'-0" A.F.F.- VERIFY EXACT DETAILS.
- (A35) BARE FLOOR THIS AREA- TO BE SMOOTH & LEVEL. FOR BUILT-UP WALK-IN REFRIGERATOR/FREEZER BY GC- Q.TILE FLOOR BY GC.
- (A36) SPARE - NOT USED
- (A37) SPARE - NOT USED

**NOTE...**  
SEE SHEET FSE-53 FOR ALL VENTILATION ROUGH-IN DETAILS & SCHEDULES.



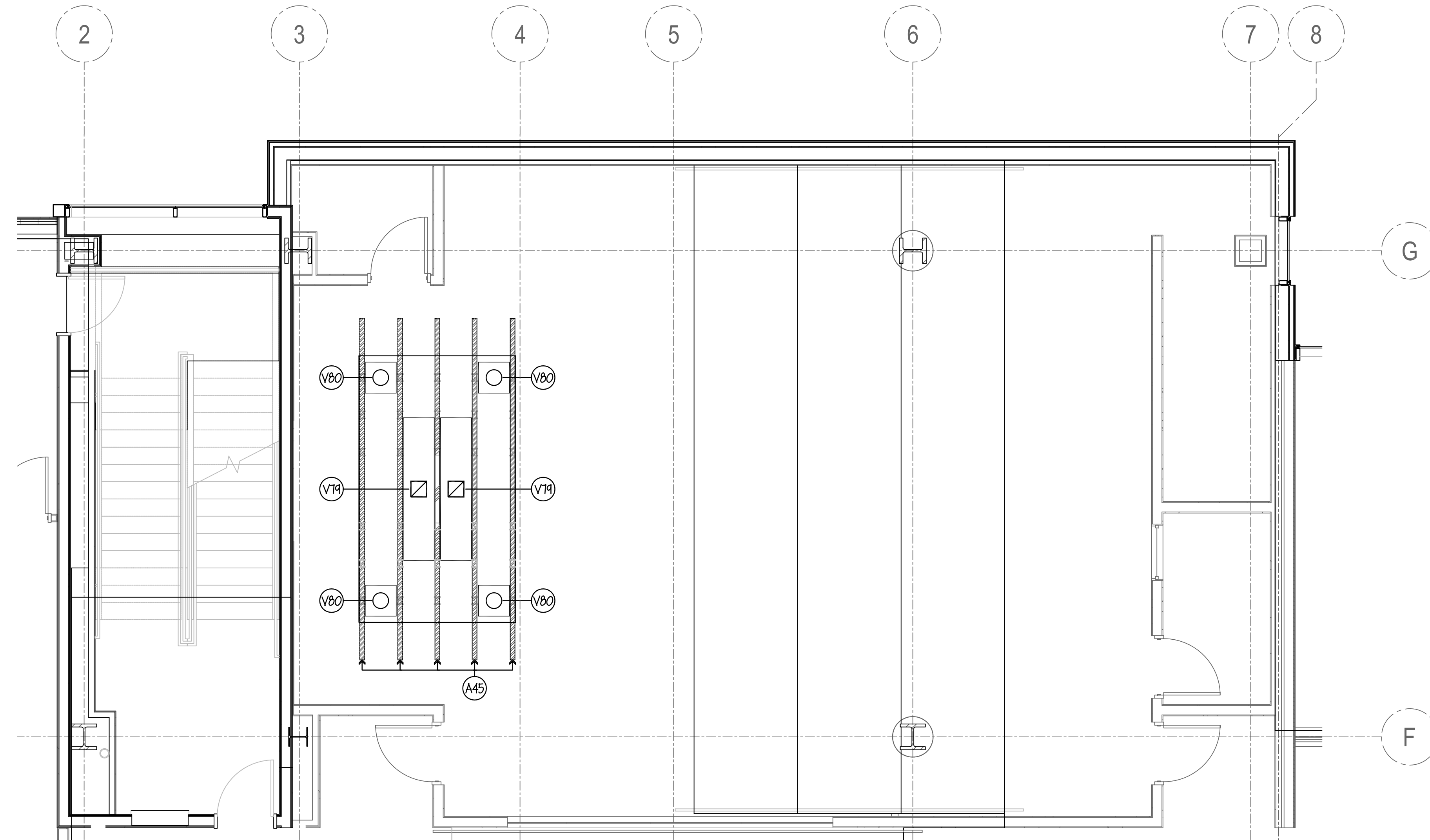
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>STUDENT SERVERY</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-52</b>		OF SHEETS





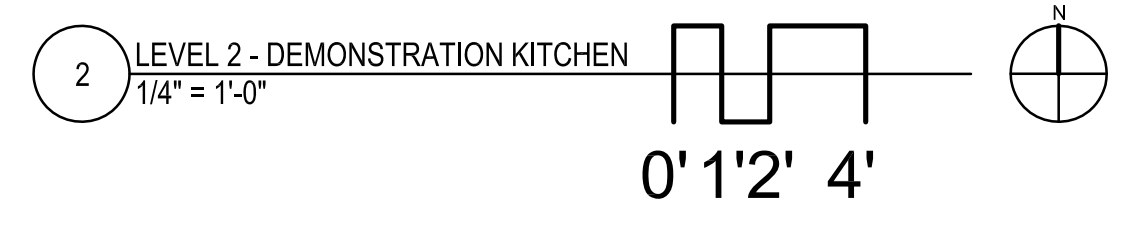
**VENTILATION NOTES**

- (V1) THRU (V12) SEE SHEET FSE-45.
- (V13) THRU (V26) SEE SHEET FSE-46.
- (V27) THRU (V33) SEE SHEET FSE-47.
- (V34) THRU (V40) SEE SHEET FSE-48.
- (V41) THRU (V46) SEE SHEET FSE-49.
- (V47) THRU (V48) SEE SHEET FSE-50.
- (V49) THRU (V56) SEE SHEET FSE-51.
- (V57) THRU (V61) SEE SHEET FSE-52.
- (V62) THRU (V70) SEE SHEET FSE-53.
- (V71) 10" x 10" EXHAUST DUCT- 750 CFM (MIN) EACH @ 0.5" S.P. AT DUCT COLLAR.  
NOTE... DUCTWORK STATIC MUST BE ADDED.
- (V80) 10" DIA. SUPPLY DUCT- 160 CFM (MAX) EACH.  
NOTE... DUCTWORK STATIC MUST BE ADDED.

**GENERAL NOTES**

- (A1) THRU (A6) SEE SHEET FSE-45.
- (A7) THRU (A12) SEE SHEET FSE-46.
- (A13) THRU (A16) SEE SHEET FSE-47.
- (A17) THRU (A20) SEE SHEET FSE-48.
- (A21) THRU (A23) SEE SHEET FSE-49.
- (A24) THRU (A29) SEE SHEET FSE-50.
- (A27) THRU (A31) SEE SHEET FSE-51.
- (A32) THRU (A37) SEE SHEET FSE-52.
- (A38) THRU (A44) SEE SHEET FSE-53.
- (A45) (5) FIVE HANGER CHANNELS FURN. & INSTD BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT VENTILATED CEILING. SEE SHEET FSE-101 FOR DETAILS. GC TO VERIFY ALL SIZES & LOCATIONS.
- (A46) SPARE - NOT USED

**NOTE . . .**  
SEE SHEET FSE-53 FOR ALL VENTILATION ROUGH-IN DETAILS & SCHEDULES.



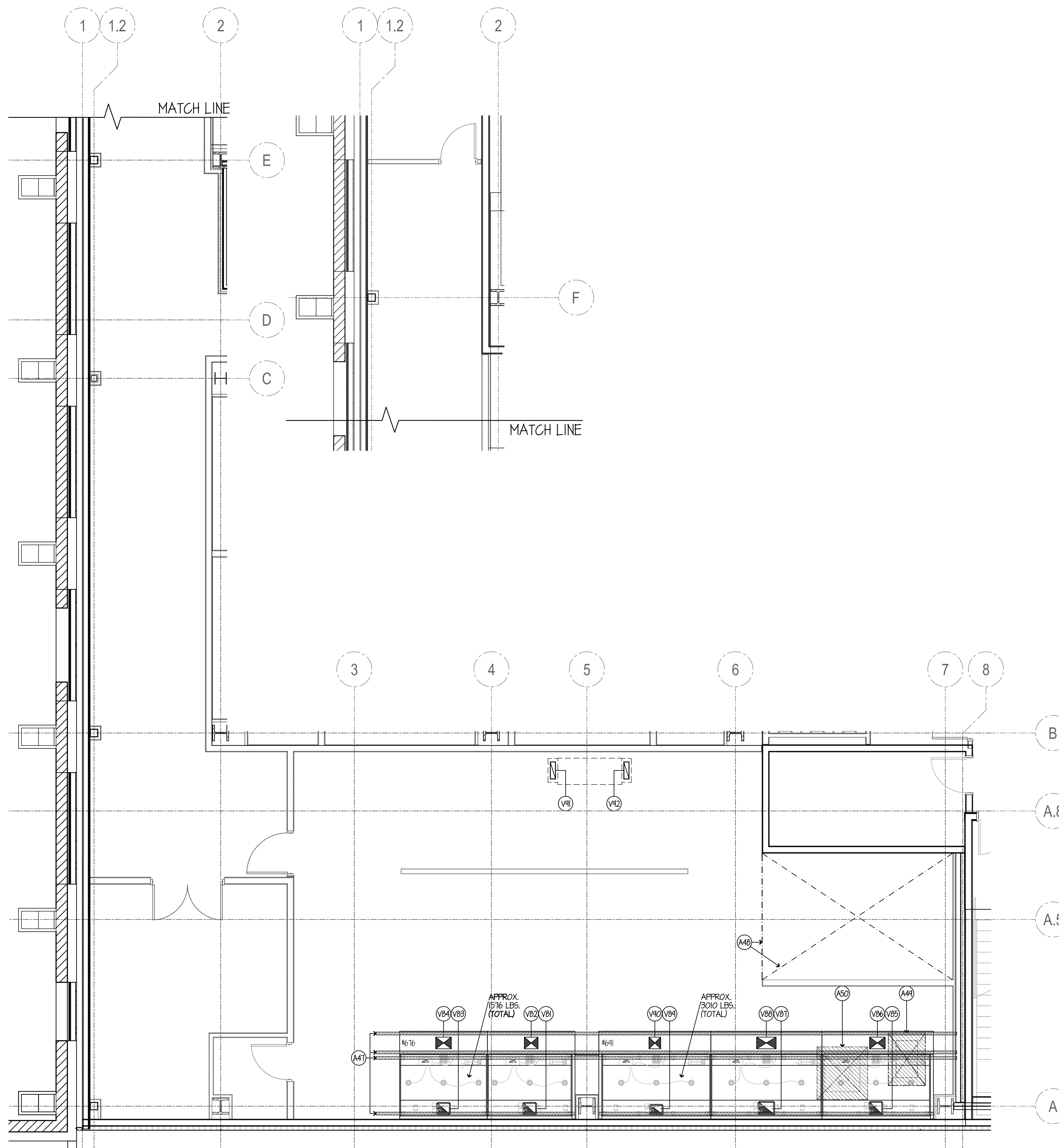
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<p><b>dk</b> DEMONICA KEMPER ARCHITECTS 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000</p>	<p><b>K J W W</b> K.J.W.W ENGINEERING 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320</p>	<p><b>EFW</b> E.F. WHITNEY, INC. 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990</p>
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<b>DEMOSNTRATION KITCHEN ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-54</b> OF SHEETS





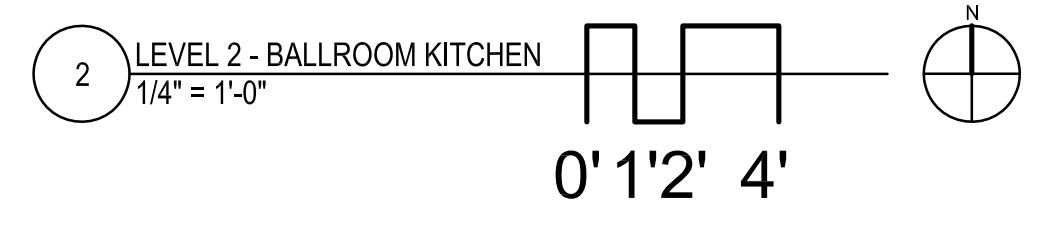
**VENTILATION NOTES**

- (V1) THRU (V12) SEE SHEET FSE-45.
  - (V13) THRU (V26) SEE SHEET FSE-46.
  - (V27) THRU (V33) SEE SHEET FSE-47.
  - (V34) THRU (V40) SEE SHEET FSE-48.
  - (V41) THRU (V46) SEE SHEET FSE-49.
  - (V47) THRU (V48) SEE SHEET FSE-50.
  - (V49) THRU (V56) SEE SHEET FSE-51.
  - (V57) THRU (V67) SEE SHEET FSE-52.
  - (V68) THRU (V78) SEE SHEET FSE-53.
  - (V79) THRU (V80) SEE SHEET FSE-54.
  - (V81) 12" x 11" EXHAUST DUCT- 151 CFM (MIN) TOTAL @ 0.30" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
  - (V82) 14" x 12" SUPPLY DUCT- 1204 CFM (MAX) TOTAL @ 0.31" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
  - (V83) 12" x 11" EXHAUST DUCT- 1637 CFM (MIN) TOTAL @ 0.35" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
  - (V84) 16" x 12" SUPPLY DUCT- 1310 CFM (MAX) TOTAL @ 0.37" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
  - (V85) 12" x 12" EXHAUST DUCT- 1767 CFM (MIN) TOTAL @ 0.20" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
  - (V86) 16" x 12" SUPPLY DUCT- 1414 CFM (MAX) TOTAL @ 0.26" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
  - (V87) 15" x 12" EXHAUST DUCT- 2185 CFM (MIN) TOTAL @ 0.31" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
  - (V88) 15" x 12" SUPPLY DUCT- 1748 CFM (MAX) TOTAL @ 0.41" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
  - (V89) 12" x 9" EXHAUST DUCT- 1275 CFM (MIN) TOTAL @ 0.10" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
  - (V90) 12" x 12" SUPPLY DUCT- 1020 CFM (MAX) TOTAL @ 0.14" S.P. AT DUCT COLLAR. NOTE... DUCTWORK STATIC MUST BE ADDED.
  - (V91) 4" x 16" EXHAUST DUCT- 500 CFM (ENTRY)
  - (V92) 4" x 16" EXHAUST DUCT- 500 CFM (EXIT)
  - (V93) SPARE - NOT USED
  - (V94) SPARE - NOT USED
- ALL DUCTWORK ABOVE FIN. CEILING BY GC- TO BE NON-CORROSIVE, WATER-TIGHT & PITCH BACK TO DRAIN AT DISHWASHER.

**GENERAL NOTES**

- (A1) THRU (A6) SEE SHEET FSE-45.
- (A7) THRU (A12) SEE SHEET FSE-46.
- (A13) THRU (A16) SEE SHEET FSE-47.
- (A17) THRU (A20) SEE SHEET FSE-48.
- (A21) THRU (A23) SEE SHEET FSE-49.
- (A24) THRU (A26) SEE SHEET FSE-50.
- (A27) THRU (A31) SEE SHEET FSE-51.
- (A32) THRU (A37) SEE SHEET FSE-52.
- (A38) THRU (A44) SEE SHEET FSE-53.
- (A45) THRU (A46) SEE SHEET FSE-54.
- (A47) (4) FOUR HANGER CHANNELS FURN. & INST'D BY GC- SECURED TO BUILDING STRUCTURAL TO SUPPORT EXHAUST HOODS (WEIGHTS AS SHOWN). GC TO VERIFY ALL SIZES & LOCATIONS.
- (A48) BARE FLOOR THIS AREA- TO BE SMOOTH & LEVEL FOR BUILT-UP WALK-IN REFRIGERATOR/FREEZER BY GC- G-TILE FLOOR BY GC.
- (A49) 38" W x 54" DP OPENING BY GC THRU FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY GC. SEE DETAIL ON SHEET FSE-53.
- (A50) 52" W x 54" DP OPENING BY GC THRU FIN. FLOOR FOR ST. ST. FLOOR DRAINER FURN. BY GC & INST'D BY GC. SEE DETAIL ON SHEET FSE-53.
- (A51) SPARE - NOT USED
- (A52) SPARE - NOT USED

**NOTE...**  
SEE SHEET FSE-53 FOR ALL VENTILATION ROUGH-IN DETAILS & SCHEDULES.



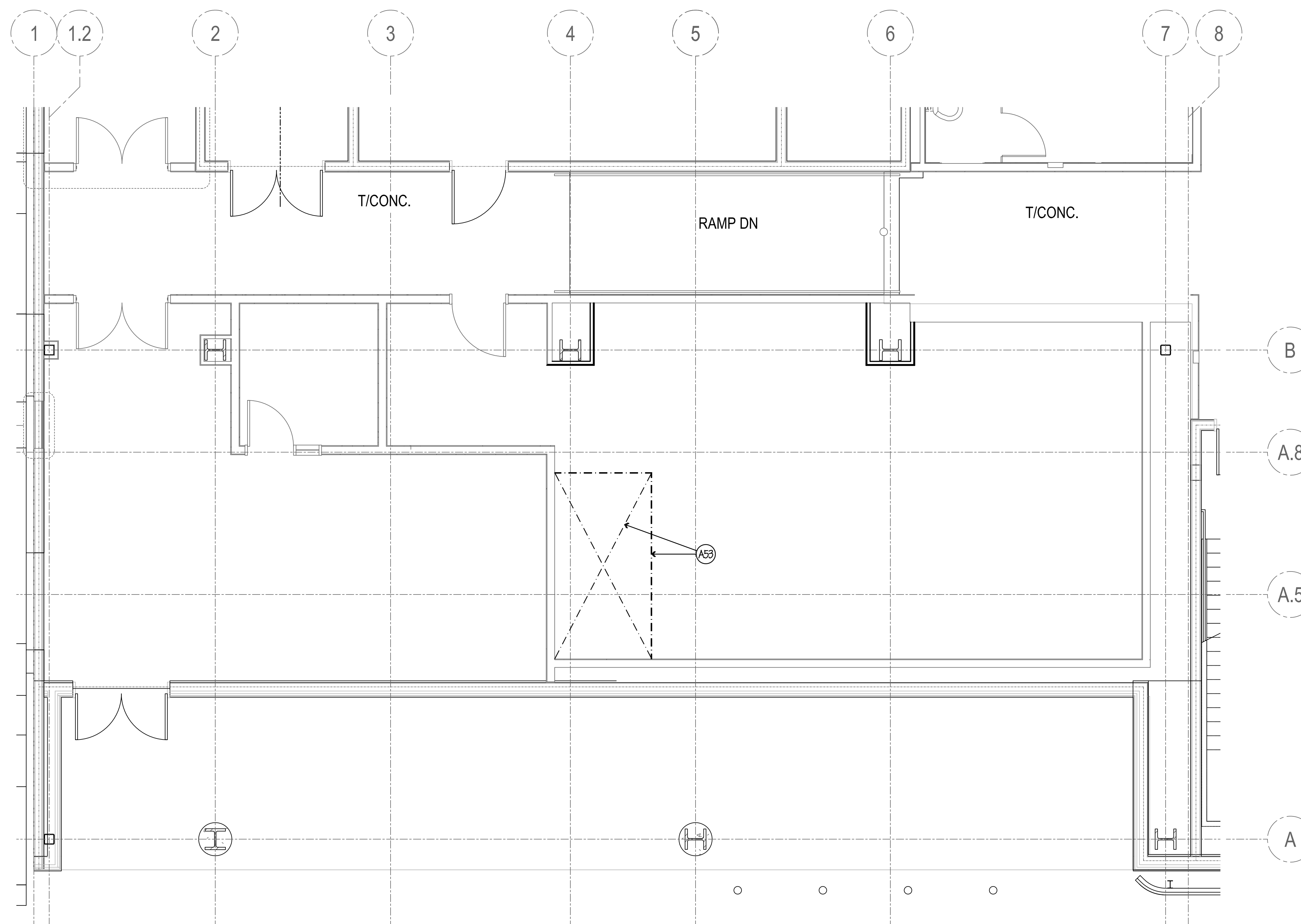
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>BALLROOM KITCHEN</b>	
<b>ISSUED FOR CONSTRUCTION</b>	
<b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b>	
<b>CITY CENTER CAMPUS</b>	
<b>JOLIET JUNIOR COLLEGE</b>	
PROJECT NO. CDB 810-048-023	DATE DEC. 12, 2014
<b>FSE-55</b>	
OF SHEETS	



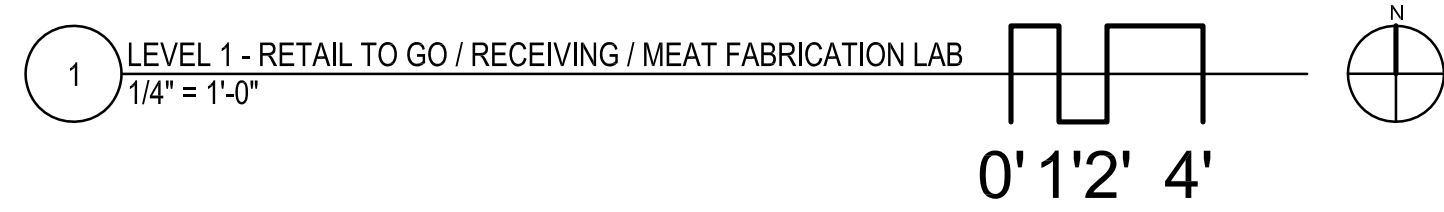
**VENTILATION NOTES**

- (V1) THRU (V12) SEE SHEET FSE-45.
- (V13) THRU (V26) SEE SHEET FSE-46.
- (V27) THRU (V33) SEE SHEET FSE-47.
- (V34) THRU (V40) SEE SHEET FSE-48.
- (V41) THRU (V46) SEE SHEET FSE-49.
- (V47) THRU (V48) SEE SHEET FSE-50.
- (V49) THRU (V56) SEE SHEET FSE-51.
- (V57) THRU (V67) SEE SHEET FSE-52.
- (V68) THRU (V78) SEE SHEET FSE-53.
- (V79) THRU (V80) SEE SHEET FSE-54.
- (V81) THRU (V94) SEE SHEET FSE-55.
- NO VENTILATION FOR FSE-56

**GENERAL NOTES**

- (A1) THRU (A6) SEE SHEET FSE-45.
- (A7) THRU (A12) SEE SHEET FSE-46.
- (A13) THRU (A16) SEE SHEET FSE-47.
- (A17) THRU (A20) SEE SHEET FSE-48.
- (A21) THRU (A23) SEE SHEET FSE-49.
- (A24) THRU (A26) SEE SHEET FSE-50.
- (A27) THRU (A31) SEE SHEET FSE-51.
- (A32) THRU (A37) SEE SHEET FSE-52.
- (A38) THRU (A44) SEE SHEET FSE-53.
- (A45) THRU (A46) SEE SHEET FSE-54.
- (A47) THRU (A52) SEE SHEET FSE-55.
- (A53) BARE FLOOR THIS AREA- TO BE SMOOTH & LEVEL FOR WALK-IN REFRIGERATOR w/ PRE-FAB FLOOR BY GC SEE DETAILS ON SHEETS FSE-122 THRU FSE-127.
- (A54) OMIT - NOT USED
- (A55) SPARE - NOT USED
- (A56) SPARE - NOT USED

**NOTE . . .**  
SEE SHEET FSE-51 FOR ALL VENTILATION ROUGH-IN DETAILS & SCHEDULES.



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>RETAIL TO GO / RECEIVING / MEAT FABRICATION LAB</b>	
<b>ISSUED FOR CONSTRUCTION</b>	
<b>FOOD SERVICE EQUIPMENT - VENTILATION-DEPRESS. PLAN</b>	
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>	
PROJECT NO. CDB 810-048-023	DATE DEC. 12, 2014
SHEET NO. <b>FSE-56</b> OF SHEETS	





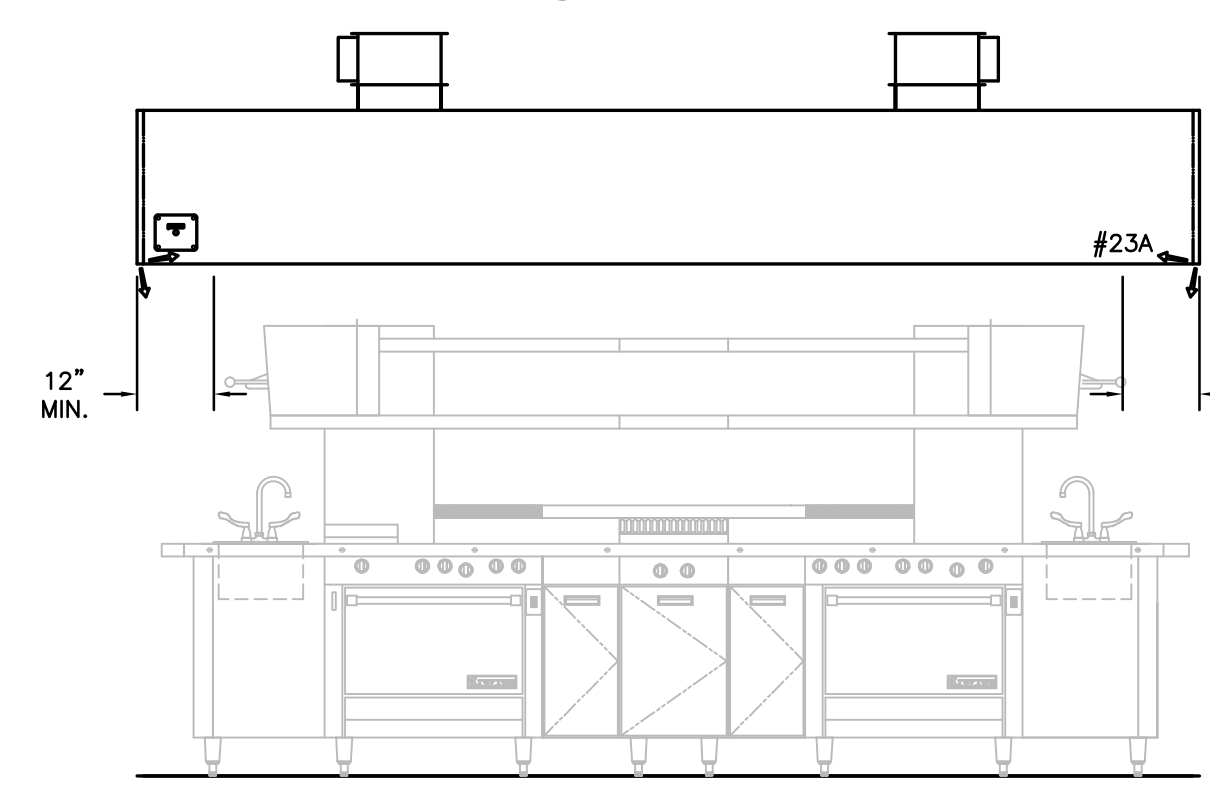
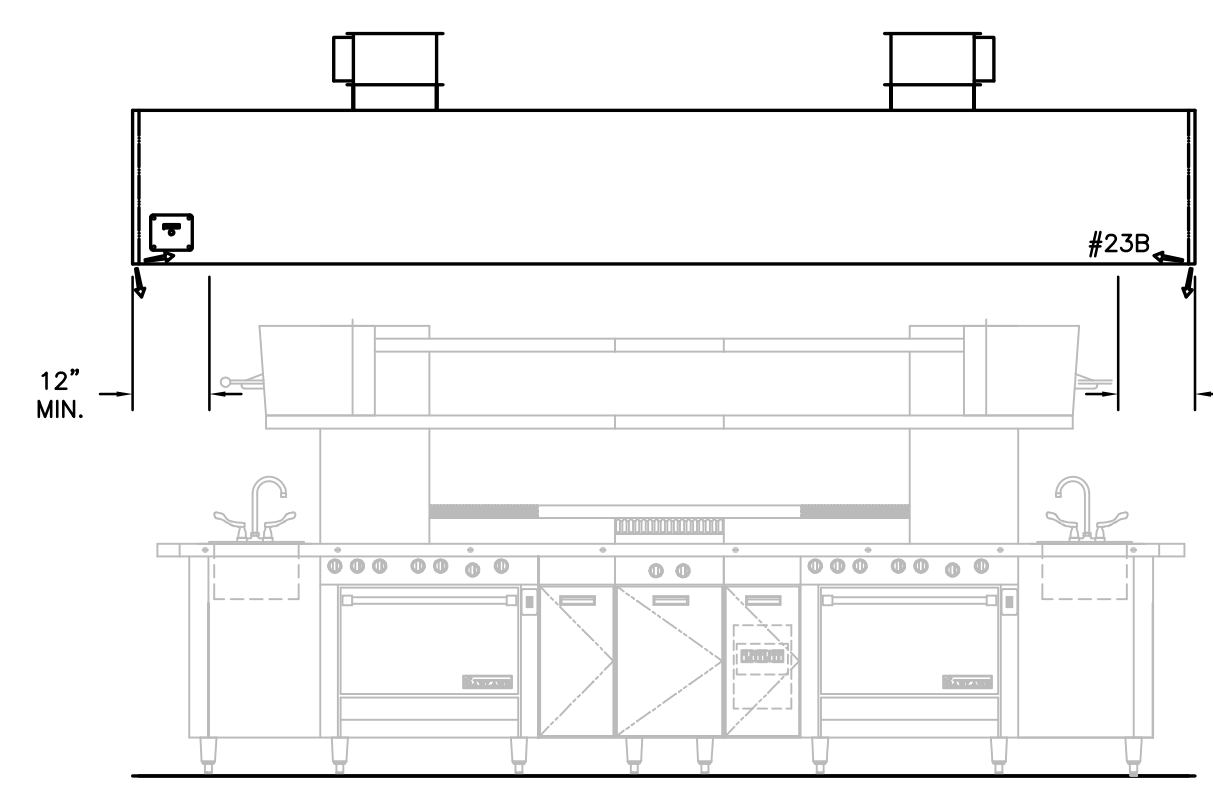
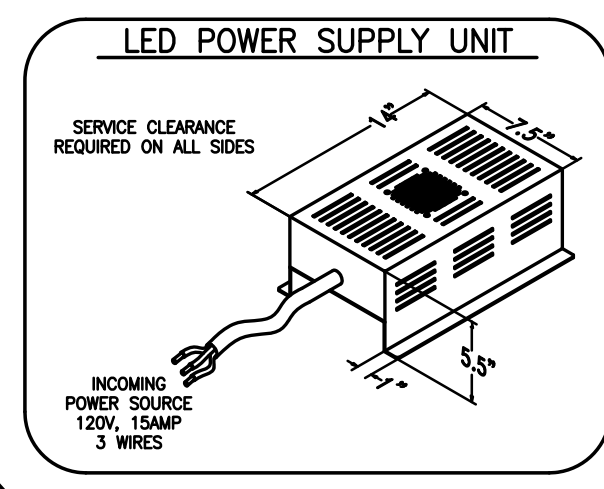
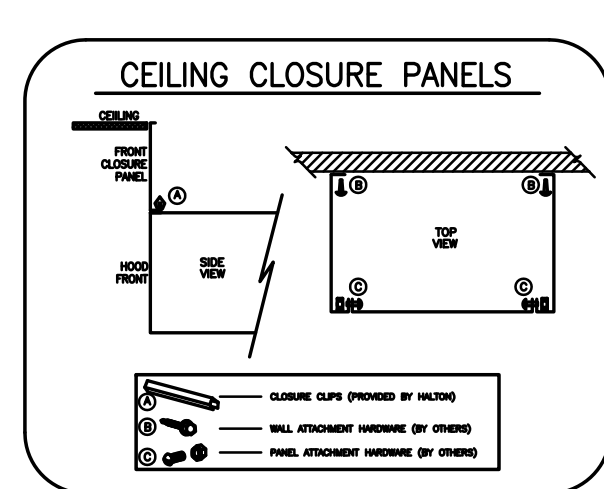
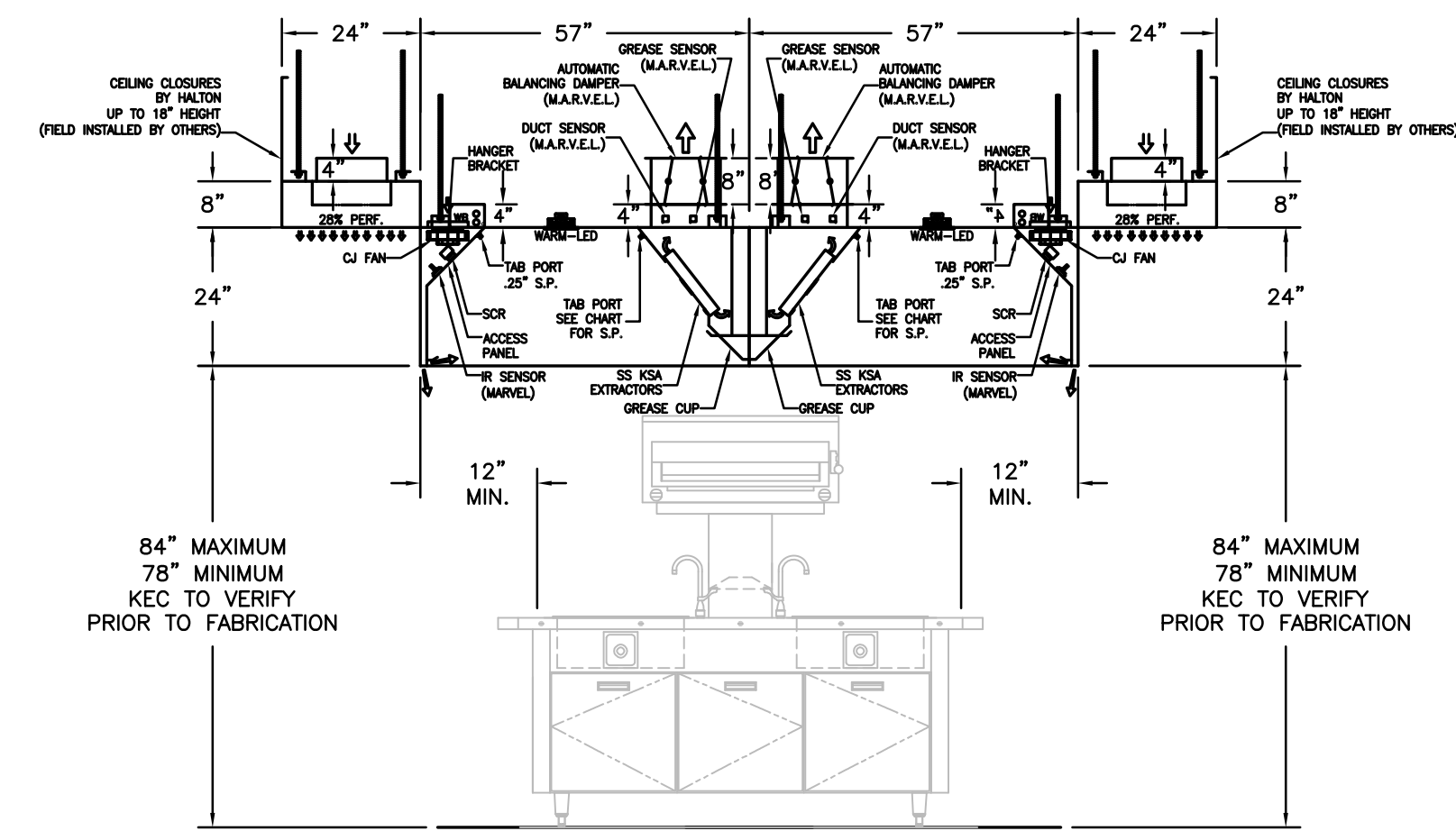
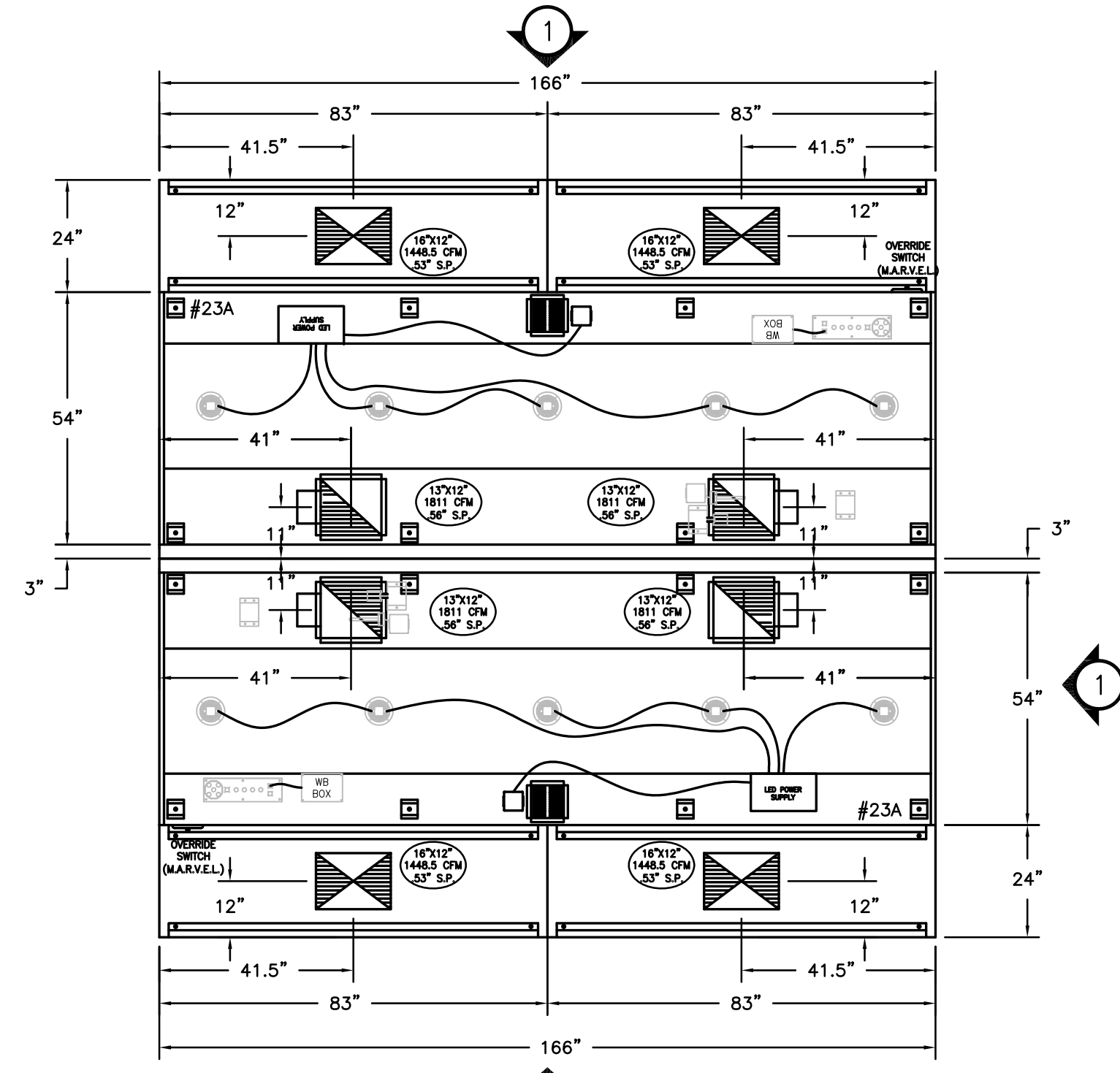
HOOD INFORMATION TABLE																			
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS			GREASE EXTRACTOR			SUPPLY AIR REQUIREMENTS			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)						
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR QTY.	EXHAUST COLLAR LENGTH	EXHAUST COLLAR WIDTH	QTY.	SIZE L	SIZE H				TYPE	SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR QTY.	SUPPLY COLLAR LENGTH	SUPPLY COLLAR WIDTH
23A	KVE	3622	.45"	.56"	1	13"	12"	8	20"	13"	KSA	1448.5 EA	.53"	1 EA	16"	12"	ALL 18GA. 304 S.S.	1141	104 EA
23B	KVE	3622	.45"	.56"	1	13"	12"	8	20"	13"	KSA	1448.5 EA	.53"	1 EA	16"	12"	ALL 18GA. 304 S.S.	1141	104 EA
TOTAL EXH. CFM = 7244		TOTAL SUPPLY CFM = 5794																	

# PRODUCTION KITCHEN 1

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH ENG.

(4) FOUR TOTAL



- ### GENERAL SPECIFICATIONS
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAZEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

- ### INSTALLATION REQUIREMENTS
- #### KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- #### ELECTRICAL CONTRACTOR'S REQUIREMENTS
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

- ### ELECTRICAL EQUIPMENT REQUIREMENTS
- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .67 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .85 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA.
  - CAPTURE JET FAN= .72 AMP EA.
  - \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*
  - \*\*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*

### CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:

THIS DRAWING MUST BE REVISION, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT. NOTICE TO SUBMITTERS: EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

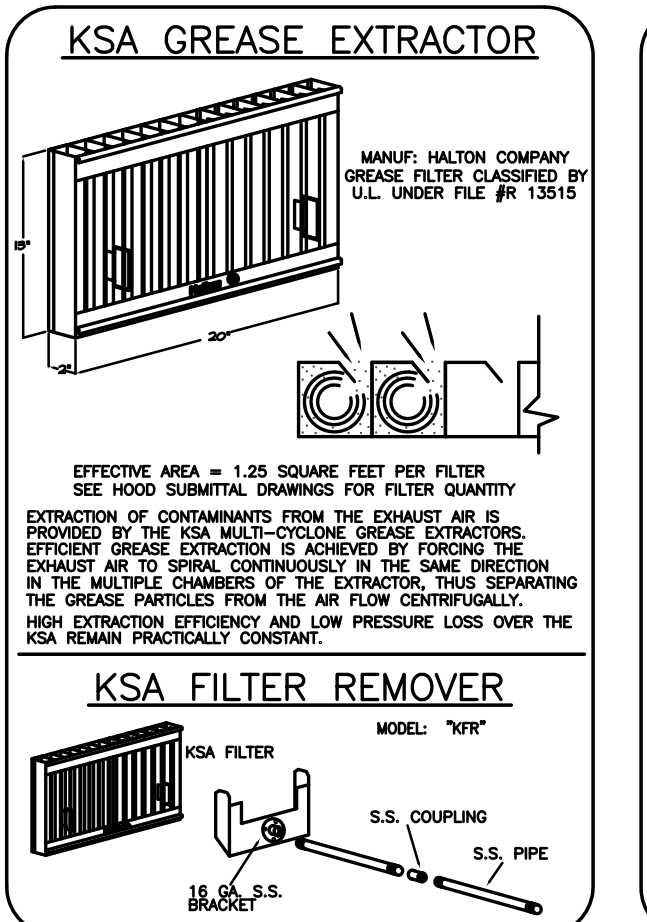
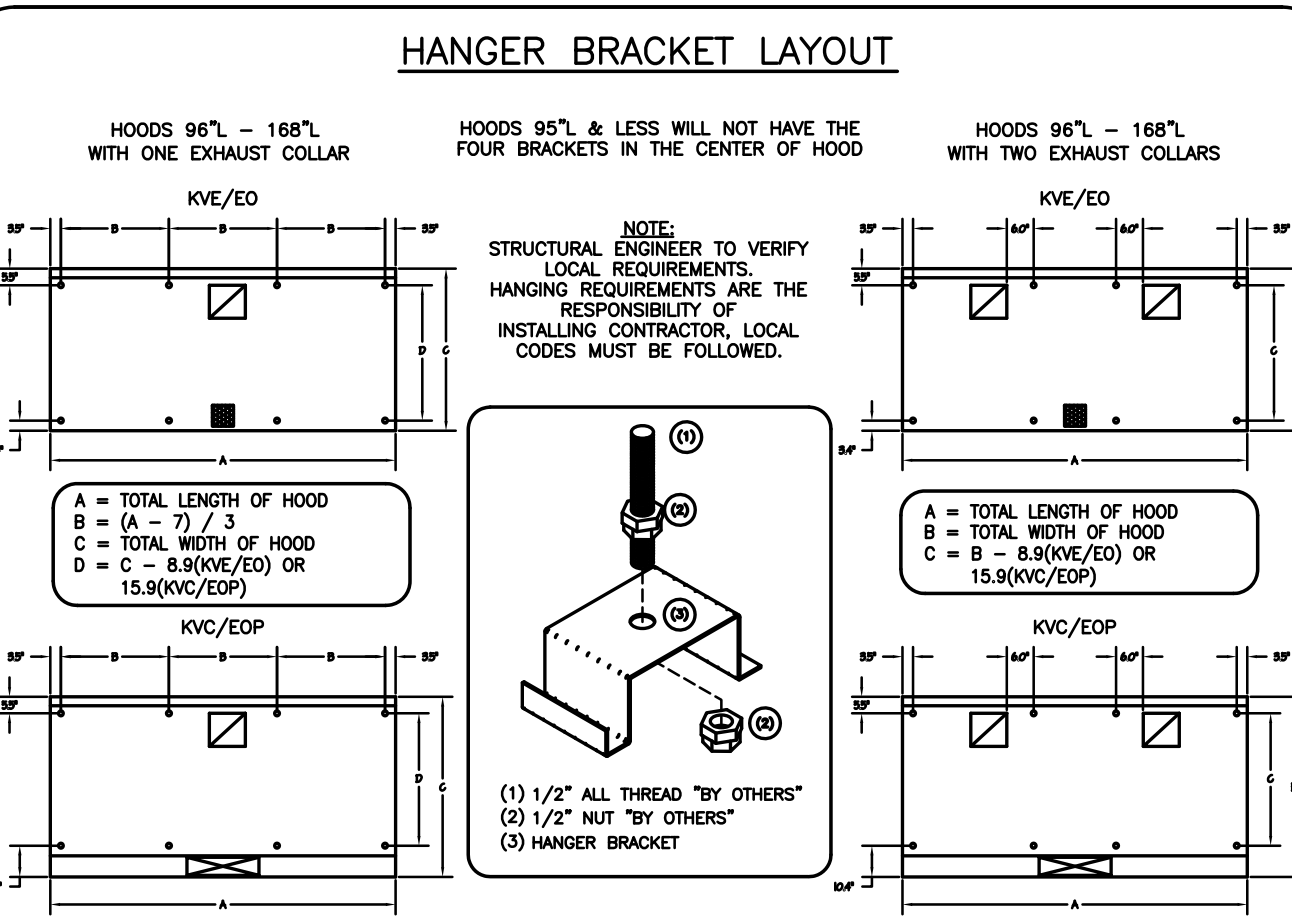
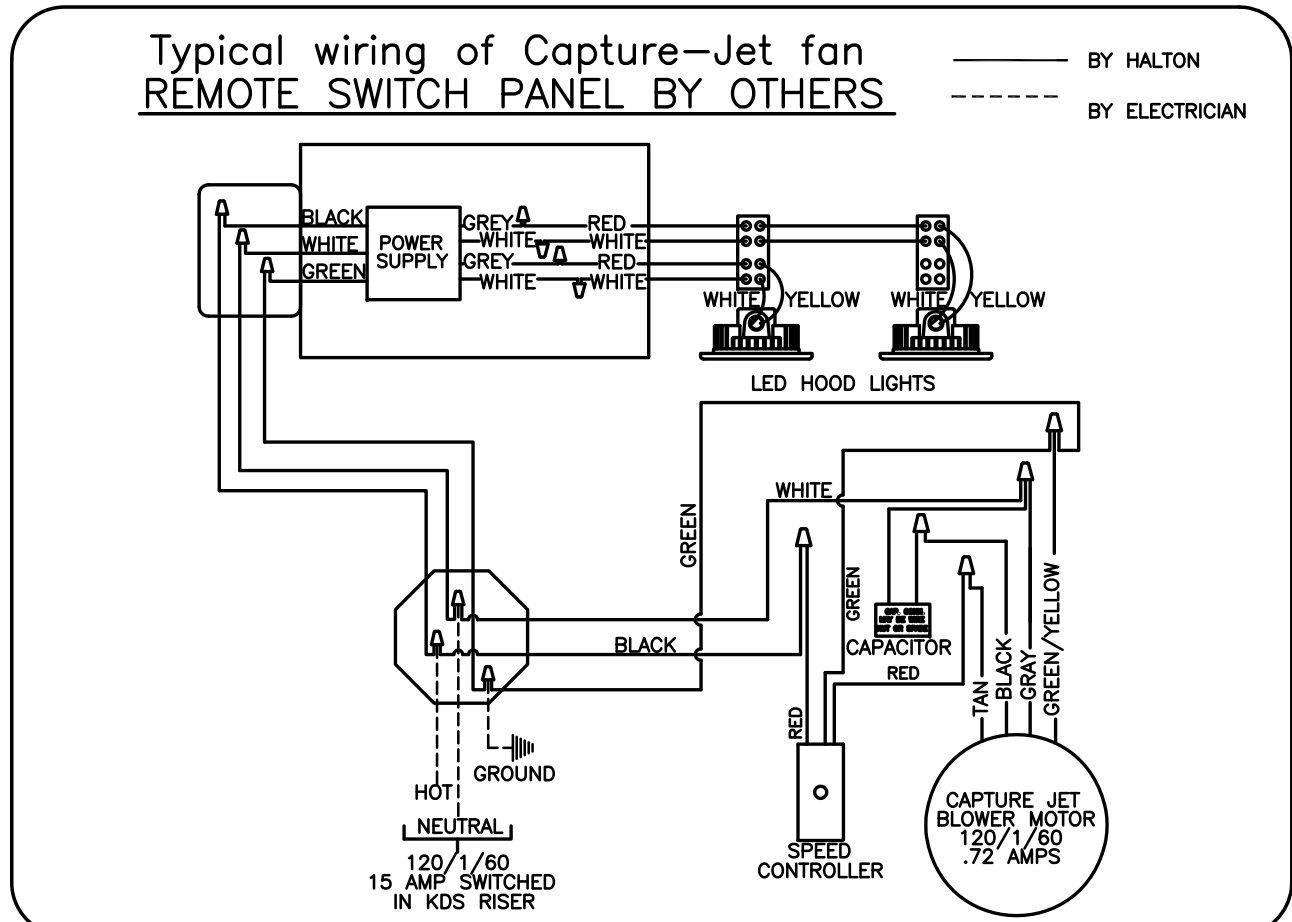
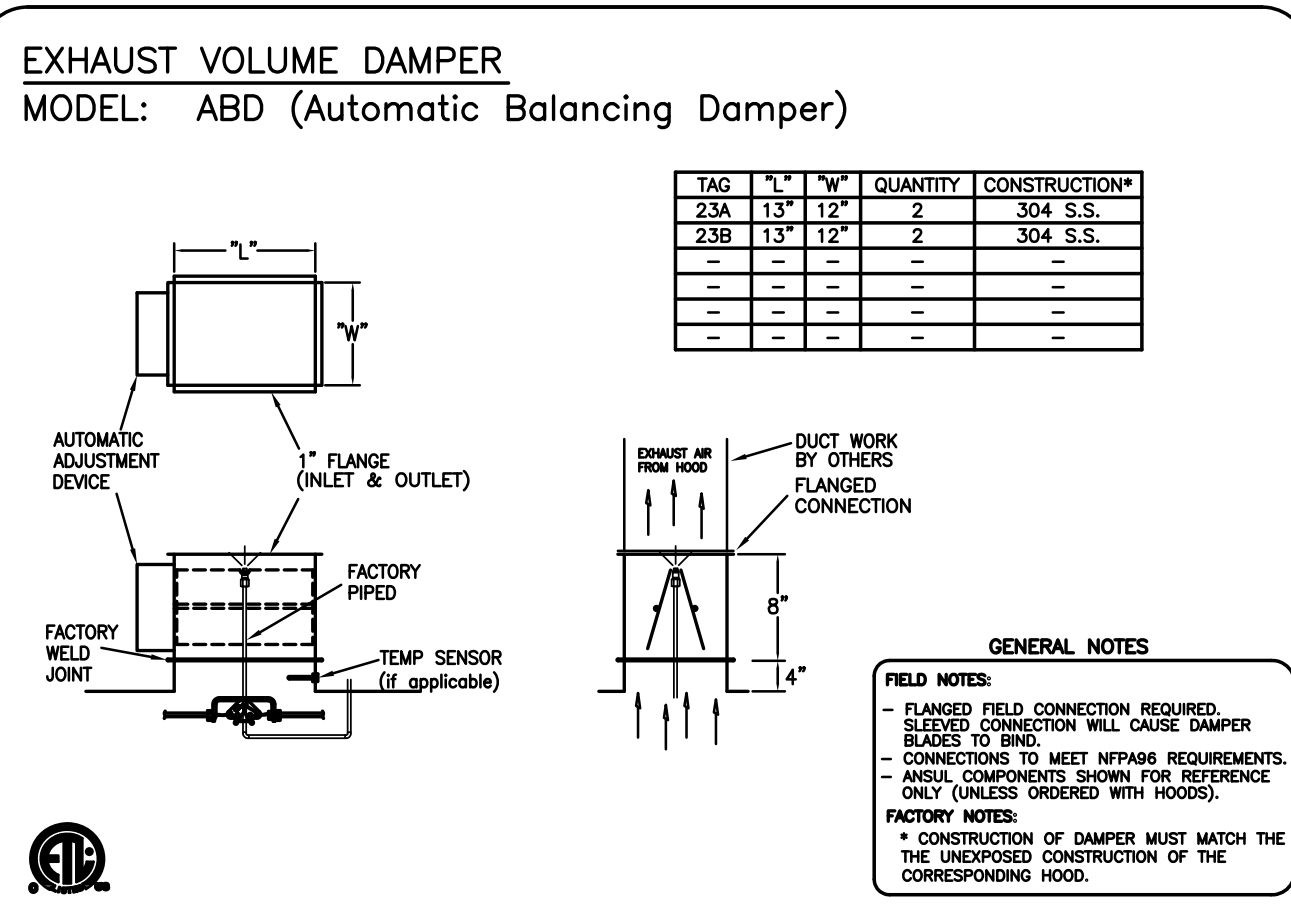
APPROVED FOR FABRICATION:  REVISE AND RESUBMIT  WITH NO CHANGES  WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0501		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED HOODS	WU	01-30-14
2	ADDED NOTE	WU	04-09-14
3	NO CHANGE	WU	04-21-14
4	REMOVED LIGHT SWITCH FROM HOOD	WU	06-03-14
5			
6			
7			

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU | DATE: 12.04.12  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING NO.: U12-719  
REV. NO.: 4 | SHEET NO.: 1 of 29



### PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURER'S OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

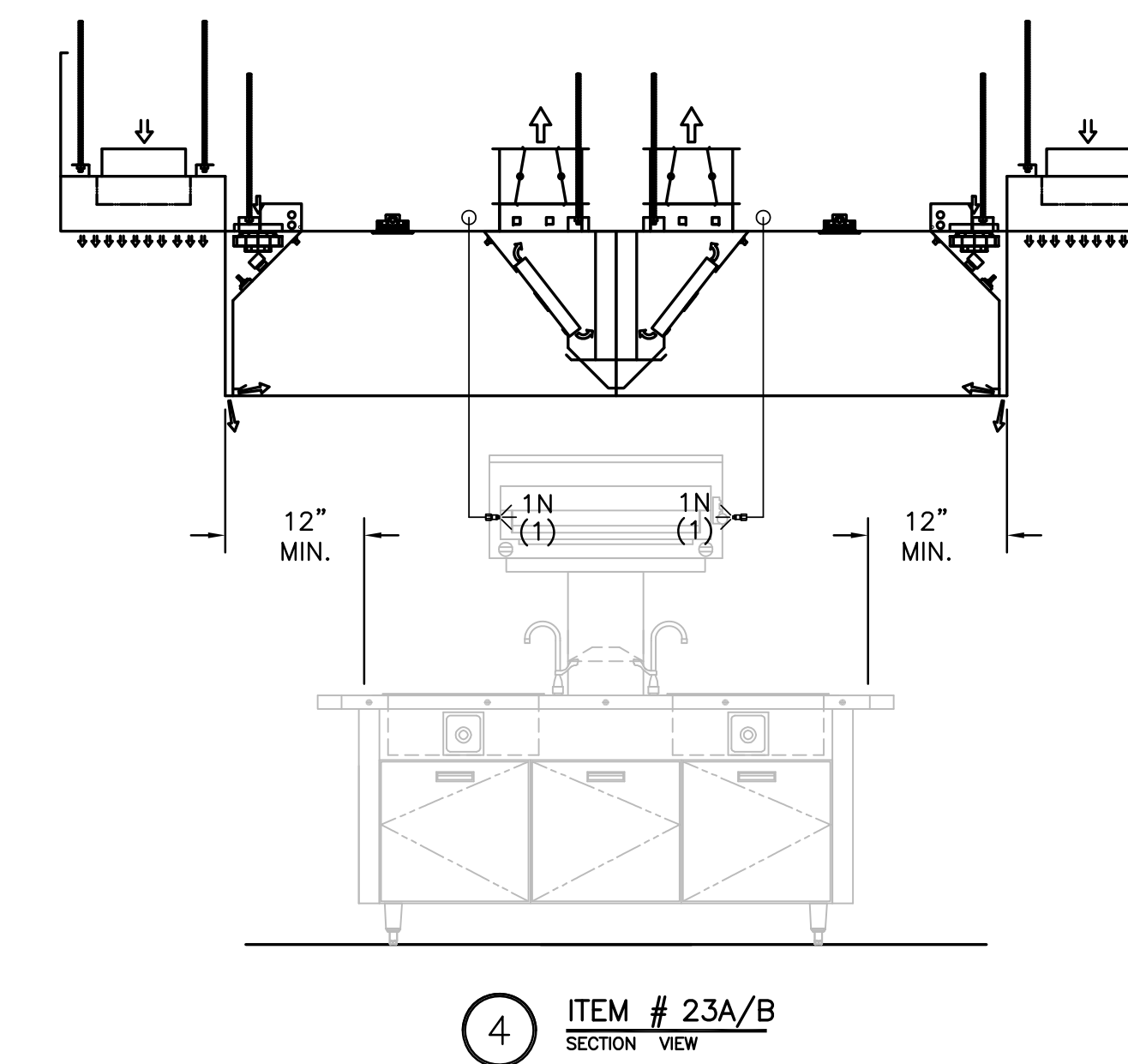
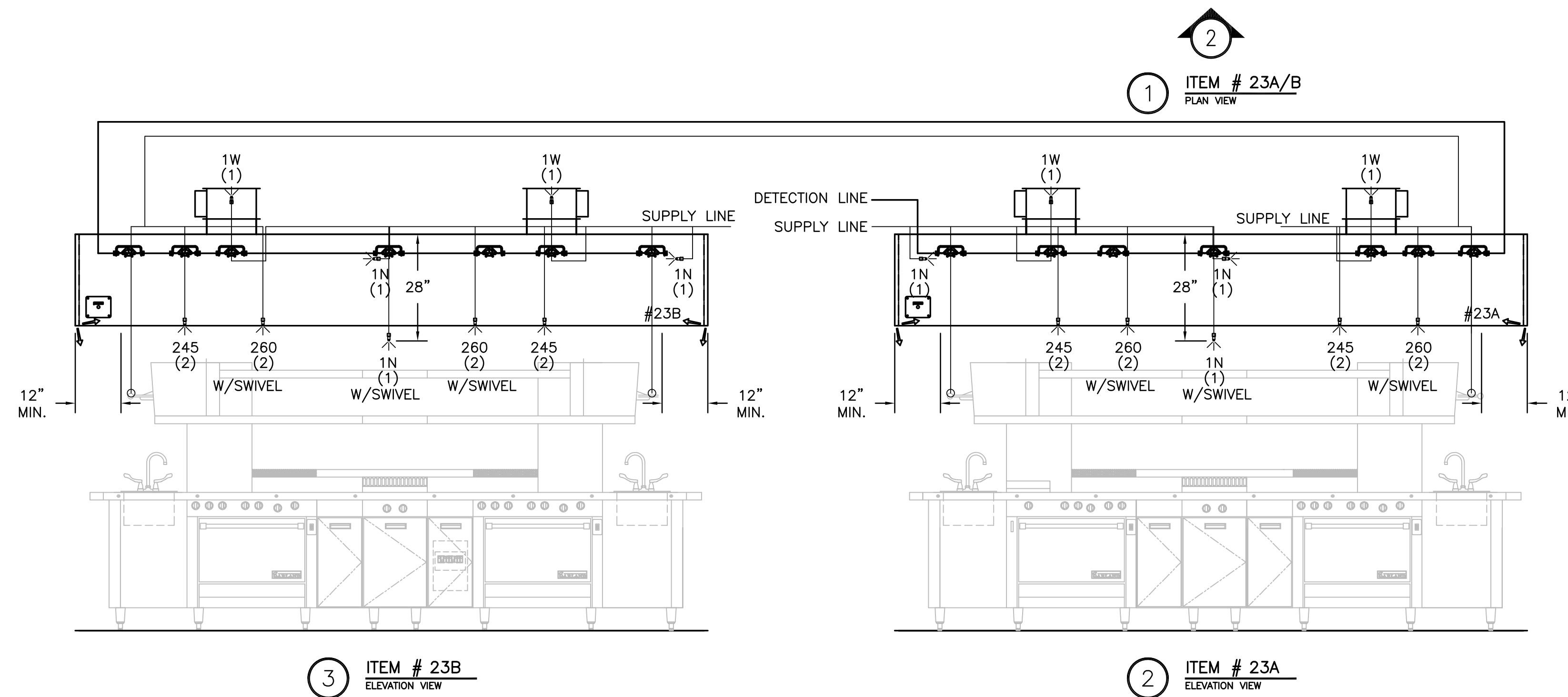
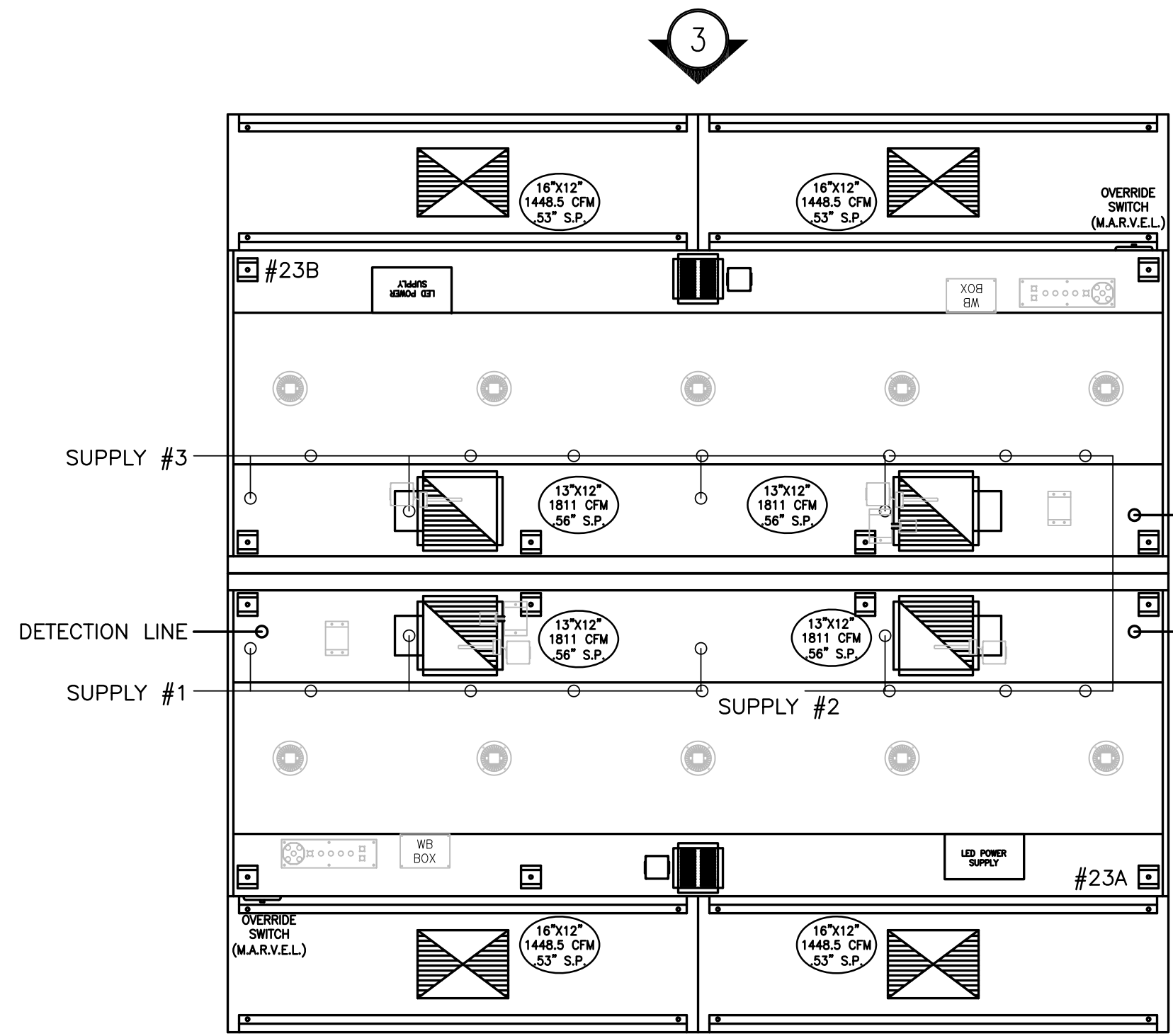
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301, CHICAGO, IL 60661, P: 312.496.0000  
 KJW ENGINEERING  
 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563, T: 630.527.2320  
 E.F. WHITNEY, INC.  
 568 ANN STREET, BIRMINGHAM, MI 48009, T: 248.644.0990

**PRODUCTION KITCHEN 1**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #23**  
**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**  
 PROJECT NO. CDB 810-048-023  
 DATE: DEC. 12, 2014  
 SHEET NO. FSE-59 OF SHEETS

# PRODUCTION KITCHEN 1

(4) FOUR TOTAL



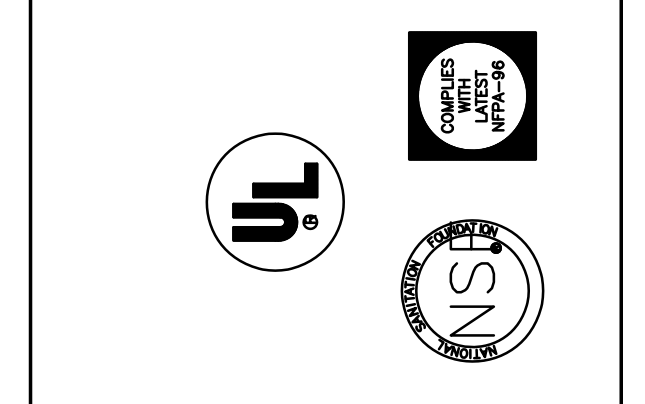
**RECOMMENDED PIPING**  
FIRE SYSTEM TO BE FURNISHED AND INSTALLED IN THE FIELD BY THE GC'S FIRE SYSTEM INSTALLATION CONTRACTOR. THIS SHEET CONTAINS HALTONS RECOMMENDED PIPING DETAILS

**NOTE**  
ANSUL TO BE VERIFIED THAT NO OBSTRUCTIONS OVER THE EQUIP.

- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

THIS DRAWING MUST BE RECHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:  
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
**NOTE TO APPROVER:** COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVISE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED HOODS	WU	01.30.14
2	NO CHANGE	WU	04.09.14
3	NO CHANGE	WU	04.21.14
4	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.04.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-719
REV. NO.:	4
SHEET NO.:	2 of 29

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>PRODUCTION KITCHEN 1</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>HALTON - PLANS and DETAILS #24 - FIRE SYSTEM</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-60</b>		OF SHEETS

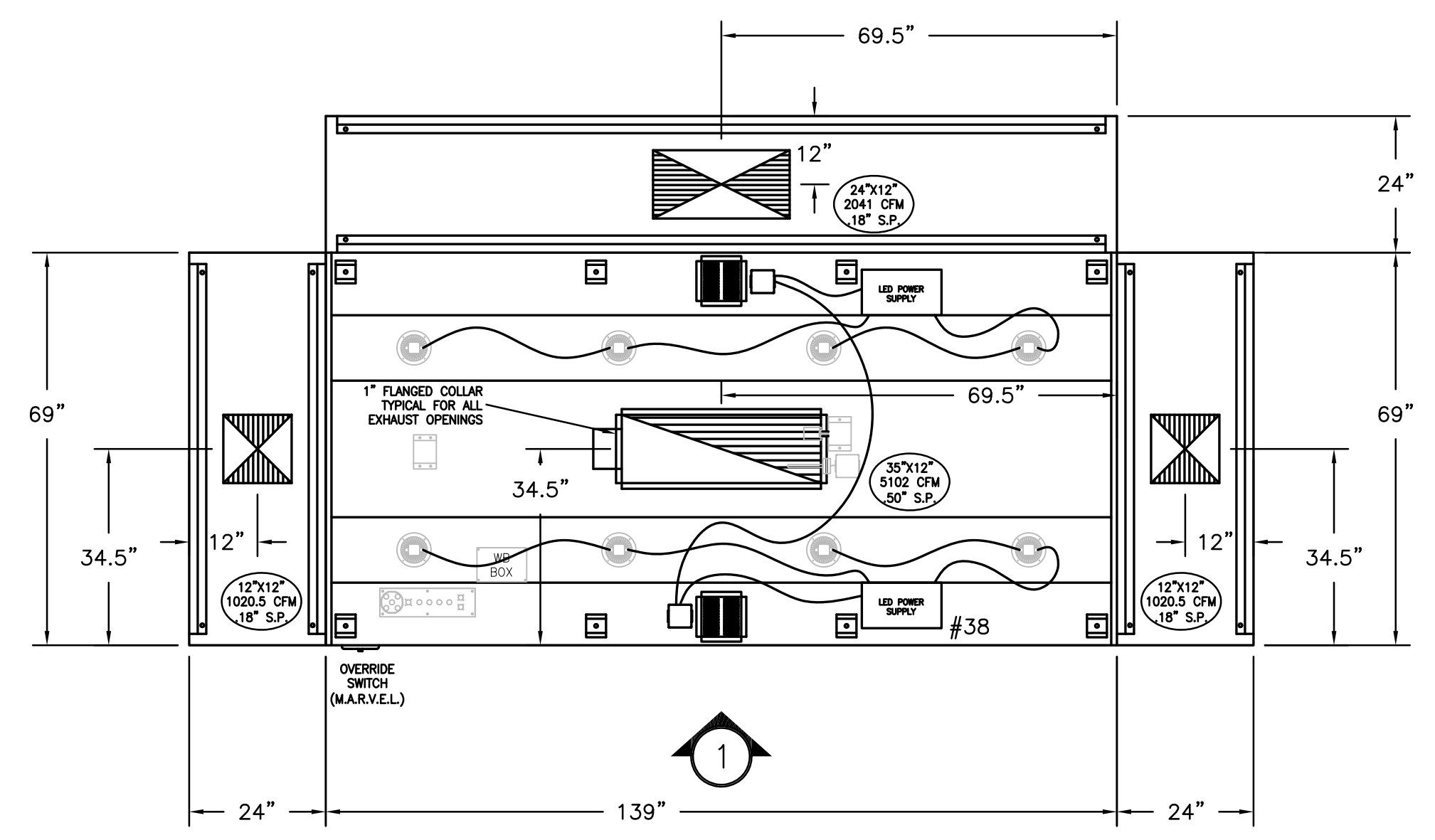


HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS			GREASE EXTRACTOR			SUPPLY AIR REQUIREMENTS			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)						
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR QTY.	EXHAUST COLLAR LENGTH	EXHAUST COLLAR WIDTH	QTY.	SIZE L	SIZE H				TYPE	SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR QTY.	SUPPLY COLLAR LENGTH	SUPPLY COLLAR WIDTH
38	KVE	5102	.39"	.50"	1	35"	12"	12	20"	13"	KSA	2041	.18"	1	24"	12"	ALL 18GA. 304 S.S.	1187	174
-	-	-	-	-	-	-	-	-	-	-	-	1020.5	.18"	1	12"	12"	ALL 18GA. 304 S.S.	-	87
-	-	-	-	-	-	-	-	-	-	-	-	1020.5	.18"	1	12"	12"	ALL 18GA. 304 S.S.	-	87

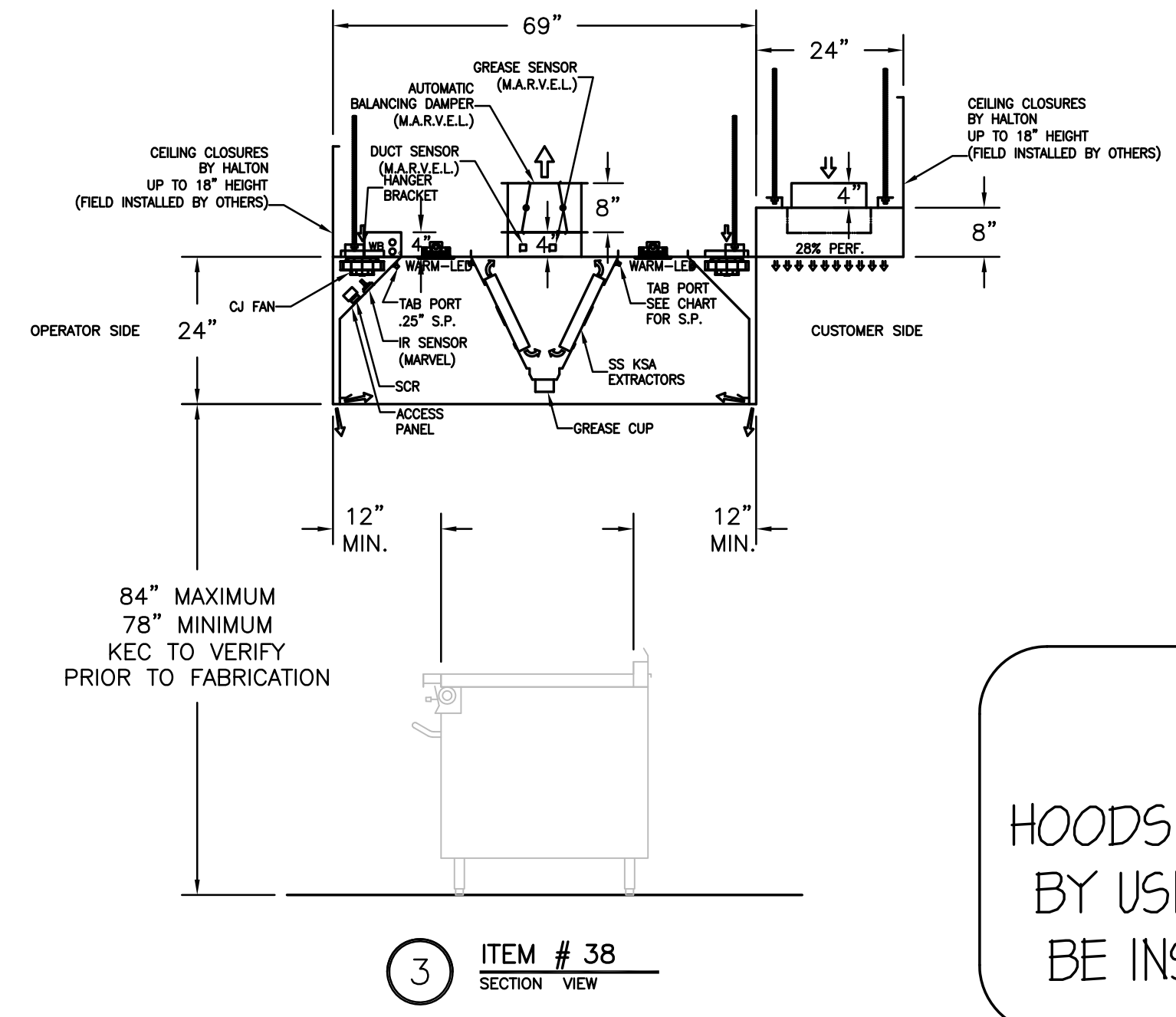
TOTAL EXH. CFM = 5102      TOTAL SUPPLY CFM = 4082

# PRODUCTION KITCHEN 1

**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH ENG.



EXHAUST HOOD MUST BE INSTALLED SO THAT THE COOKING EQUIPMENT IS CENTERED UNDER THE EXHAUST HOOD ABOVE.



**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

### GENERAL SPECIFICATIONS

- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONNEL AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAZEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
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### INSTALLATION REQUIREMENTS

- #### KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
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  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

### ELECTRICAL CONTRACTOR'S REQUIREMENTS

- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

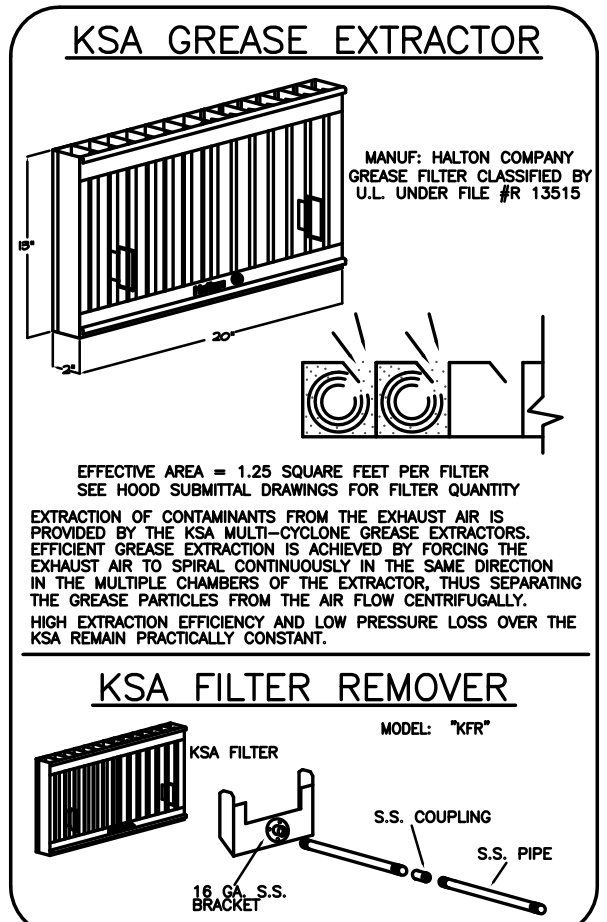
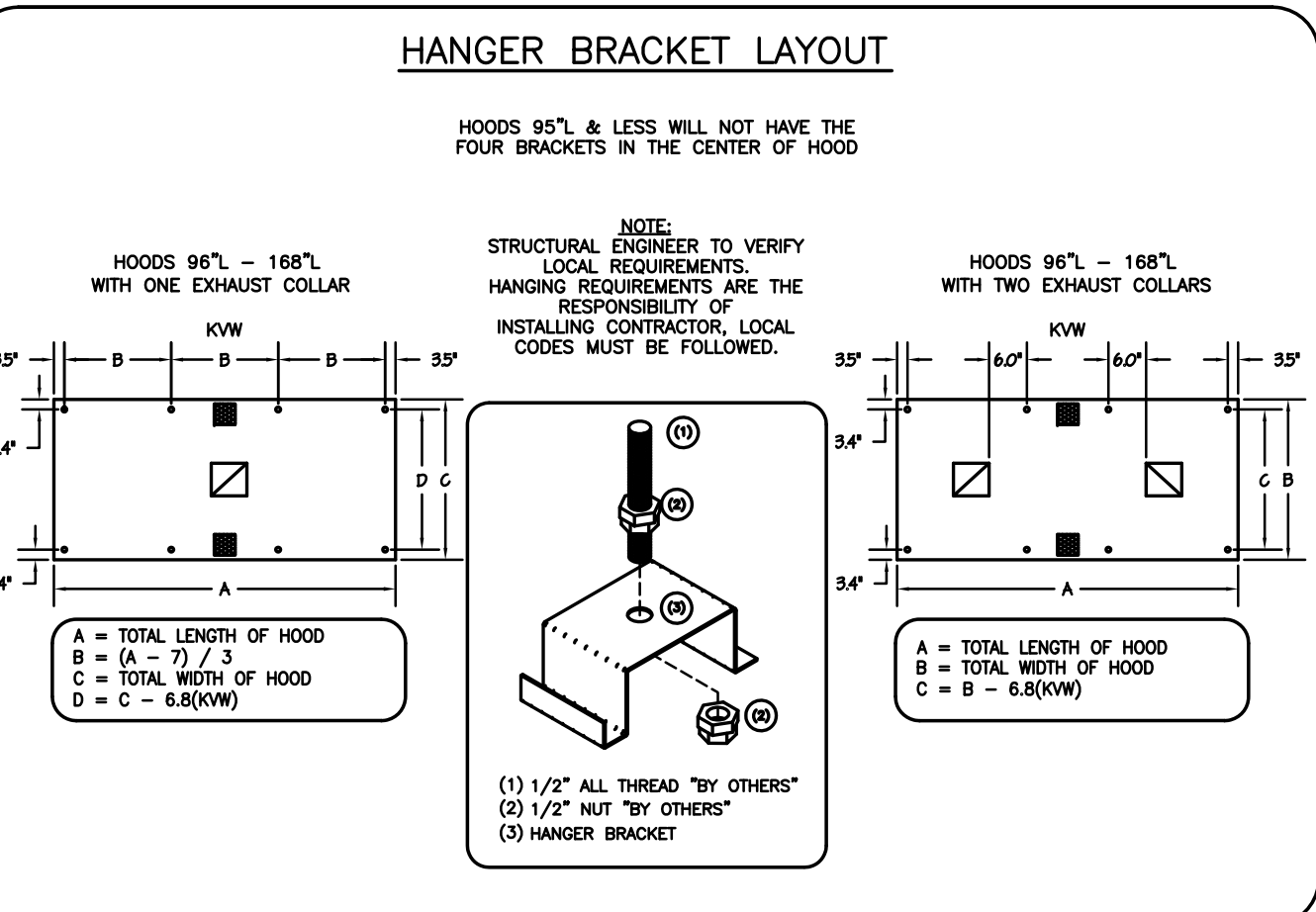
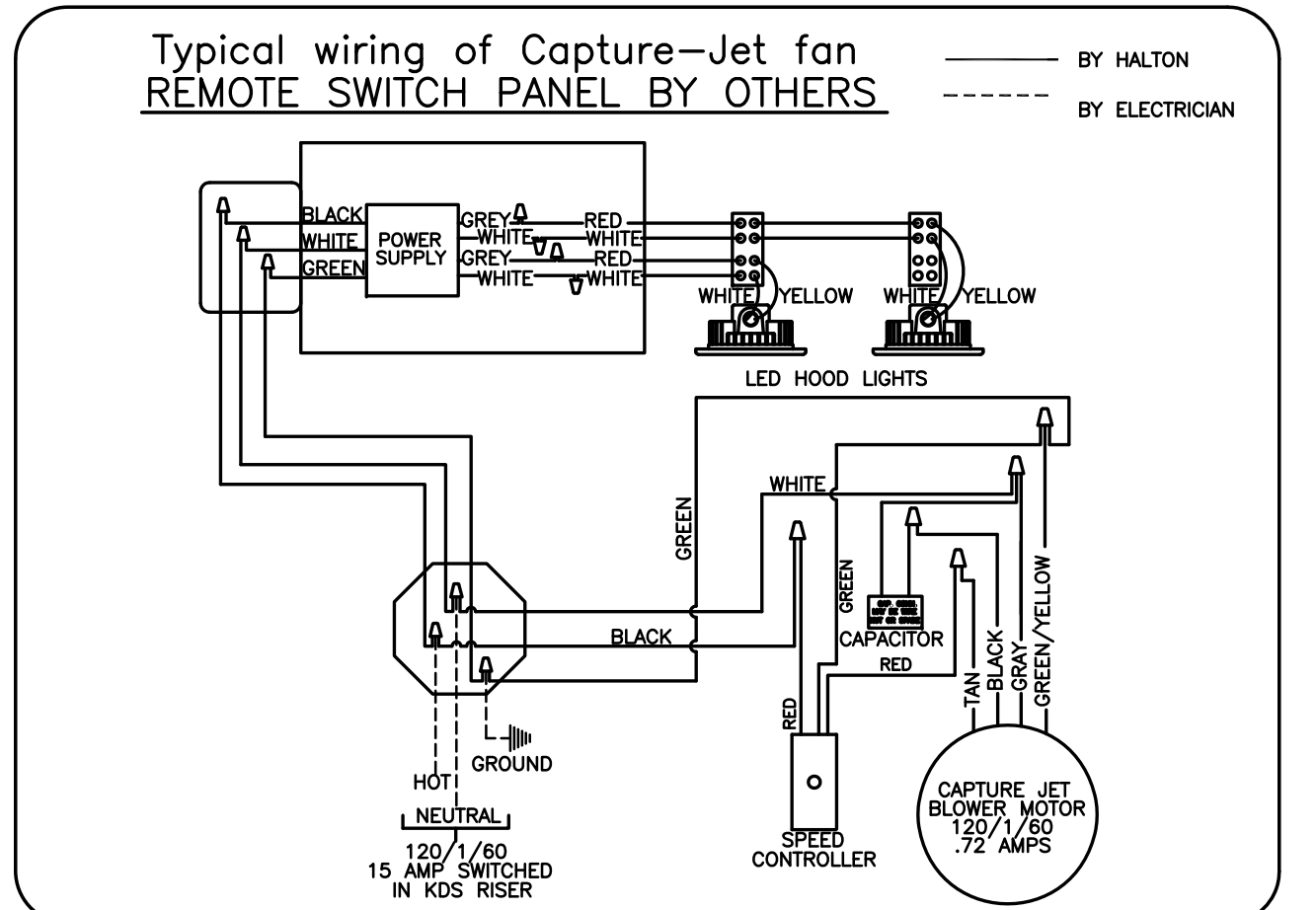
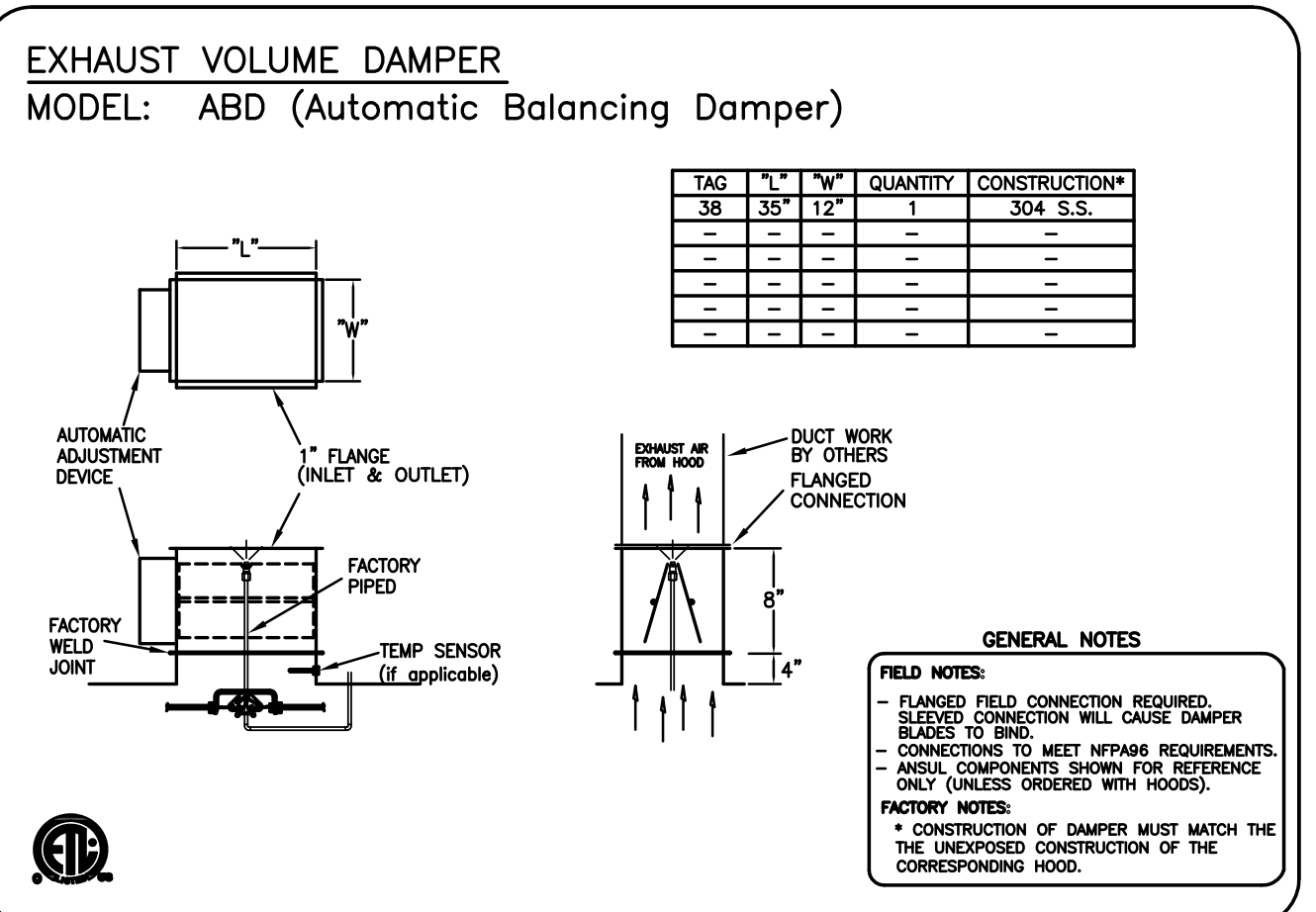
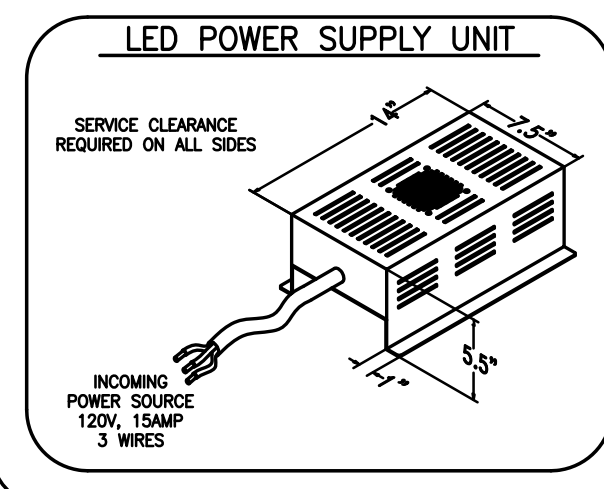
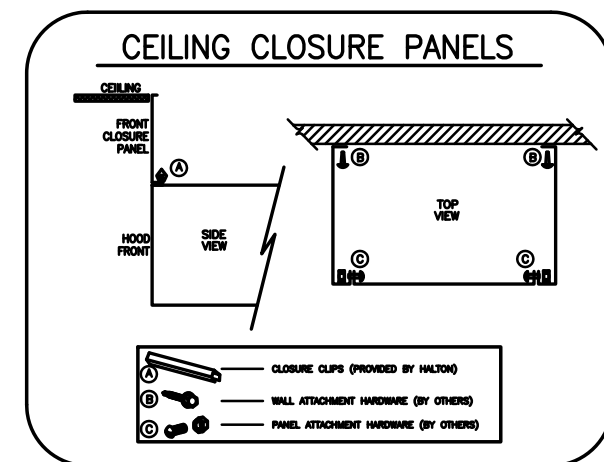
### ELECTRICAL EQUIPMENT REQUIREMENTS

- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .57 AMP EA.
- RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
- GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
- LED LIGHT FIXTURES= .30 AMP EA.
- CAPTURE JET FAN= .72 AMP EA.
- \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*
- \*\*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*

### CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:



### PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

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APPROVED FOR FABRICATION:  WITH CHANGES AS NOTED  WITH NO CHANGES

REVISED AND RESUBMIT

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:	WEBSITE: WWW.HALTONCOMPANY.COM
HALTON CO. (CANADA)	101 INDUSTRIAL DRIVE MISSISSAUGA, ON L4W 3R7 1-905-674-0301
HALTON CO. (USA)	101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600
REVISION DESCRIPTION	BY DATE
1 REVISED HOODS	WU 01.30.14
2 ADDED NOTE	WU 04.09.14
3 NO CHANGE	WU 04.21.14
4 REMOVED LIGHT SWITCH FROM HOOD	WU 06.03.14
5	
6	
7	

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU DATE: 12.04.12  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING NO.: U12-719  
REV. NO.: 4 SHEET NO.: 9 of 29

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

PREPARED: XXX OFF.  
APPROVED: XXX  
APPROVED: EFW

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD,  
#400W NAPERVILLE, IL  
60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

## PRODUCTION KITCHEN 1 ISSUED FOR CONSTRUCTION

HALTON - PLANS and DETAILS #38

CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE

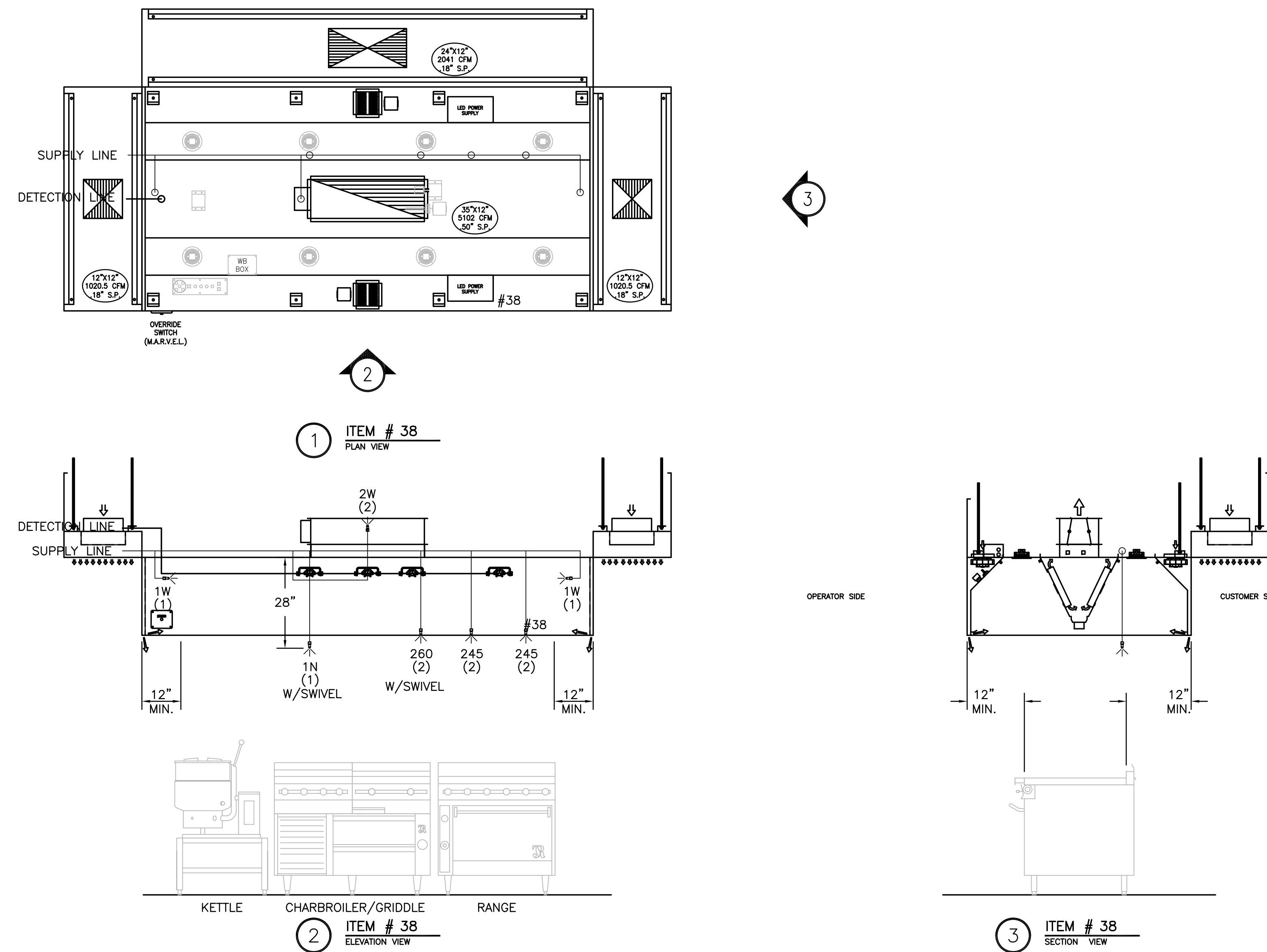
PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. FSE-61 OF SHEETS



# PRODUCTION KITCHEN 1

## RECOMMENDED PIPING

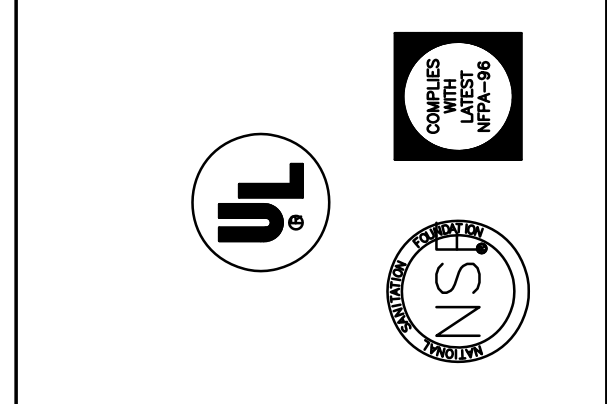
FIRE SYSTEM TO BE FURNISHED AND INSTALLED IN THE FIELD BY THE GC'S FIRE SYSTEM INSTALLATION CONTRACTOR. THIS SHEET CONTAINS HALTONS RECOMMENDED PIPING DETAILS



- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING INFORMATION:  
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
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 REVISE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-674-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED HOODS	WU	01.30.14
2	NO CHANGE	WU	04.09.14
3	NO CHANGE	WU	04.21.14
4	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.04.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-719
REV. NO.:	4
SHEET NO.:	10 of 29

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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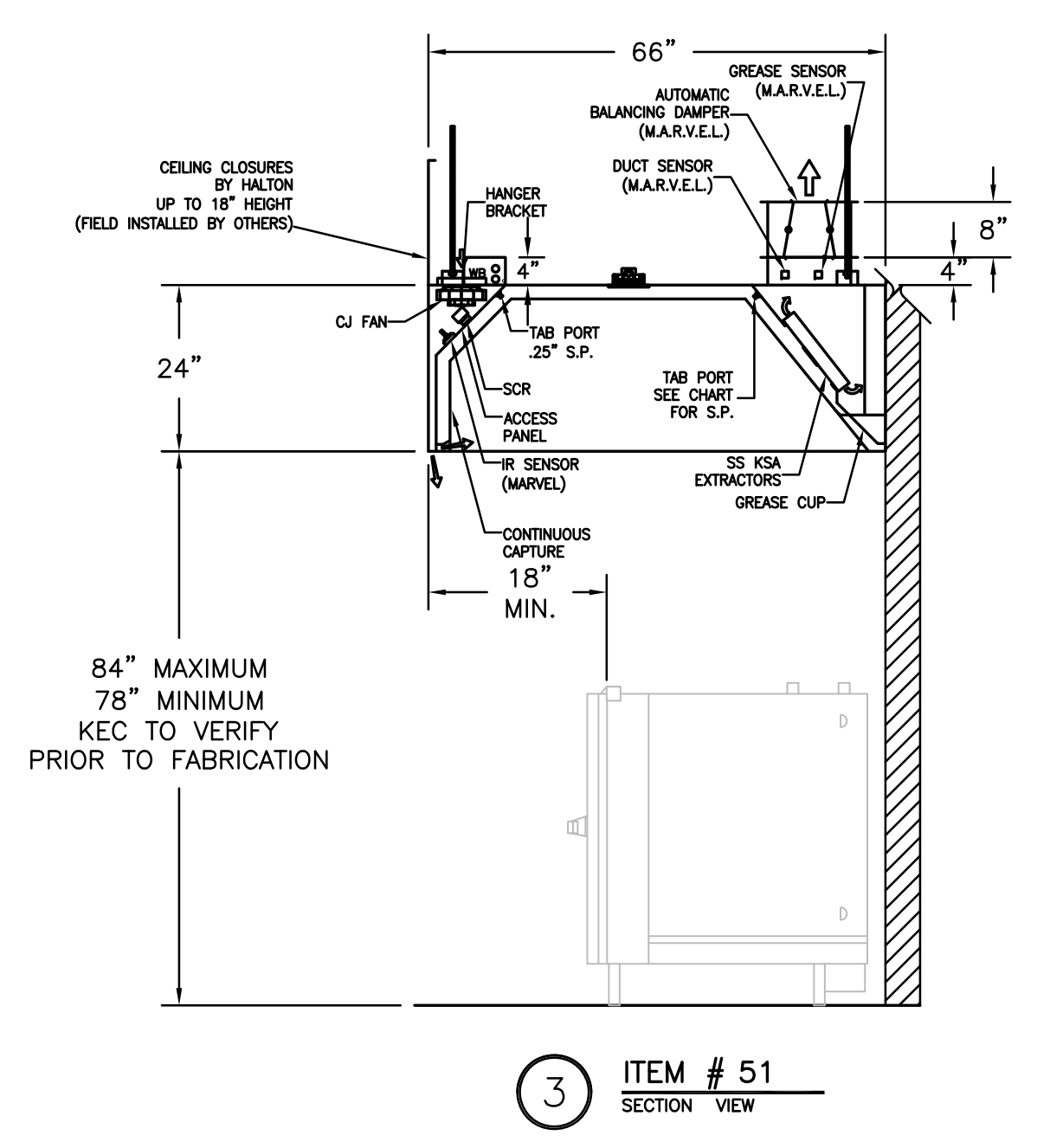
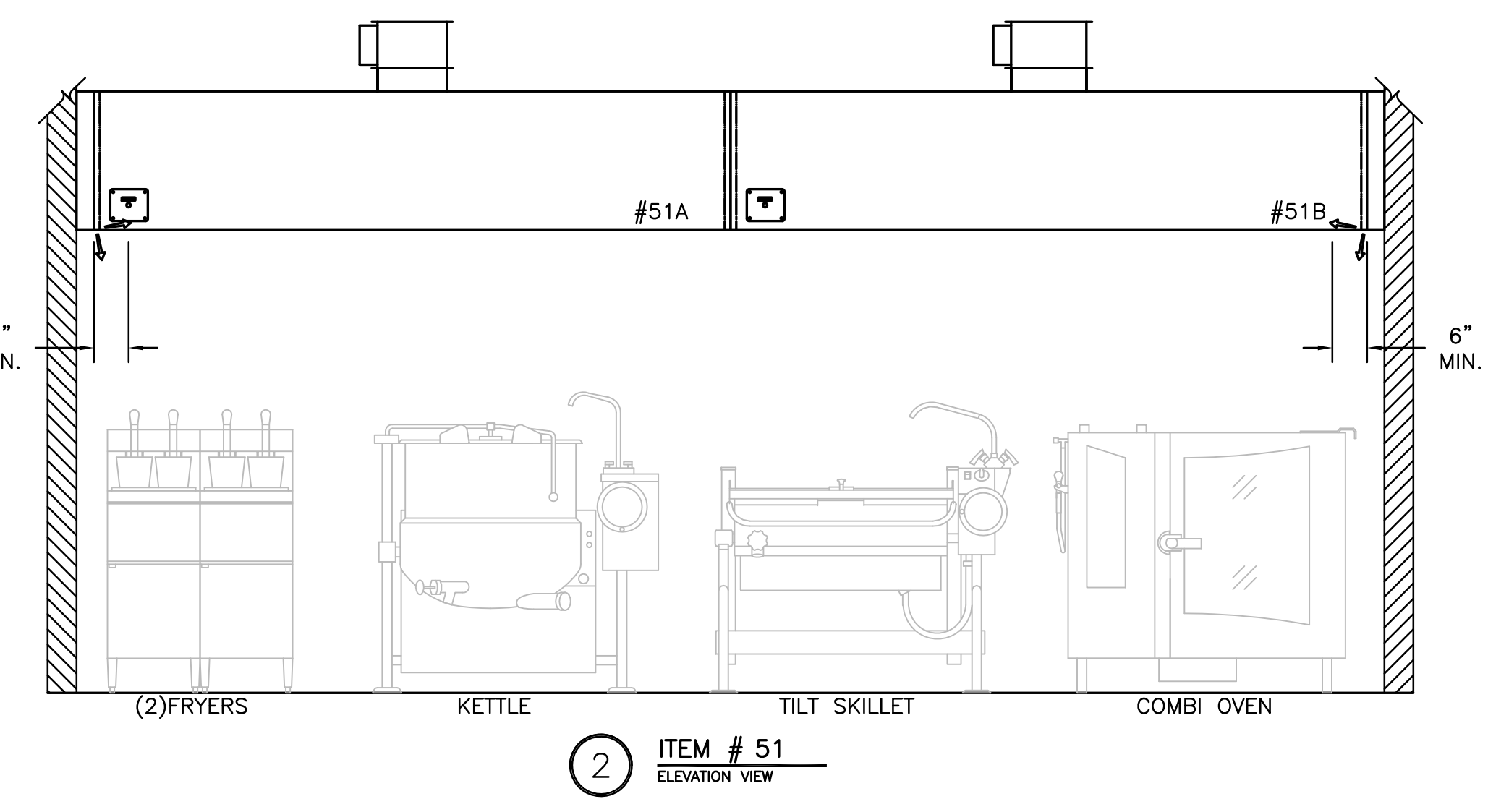
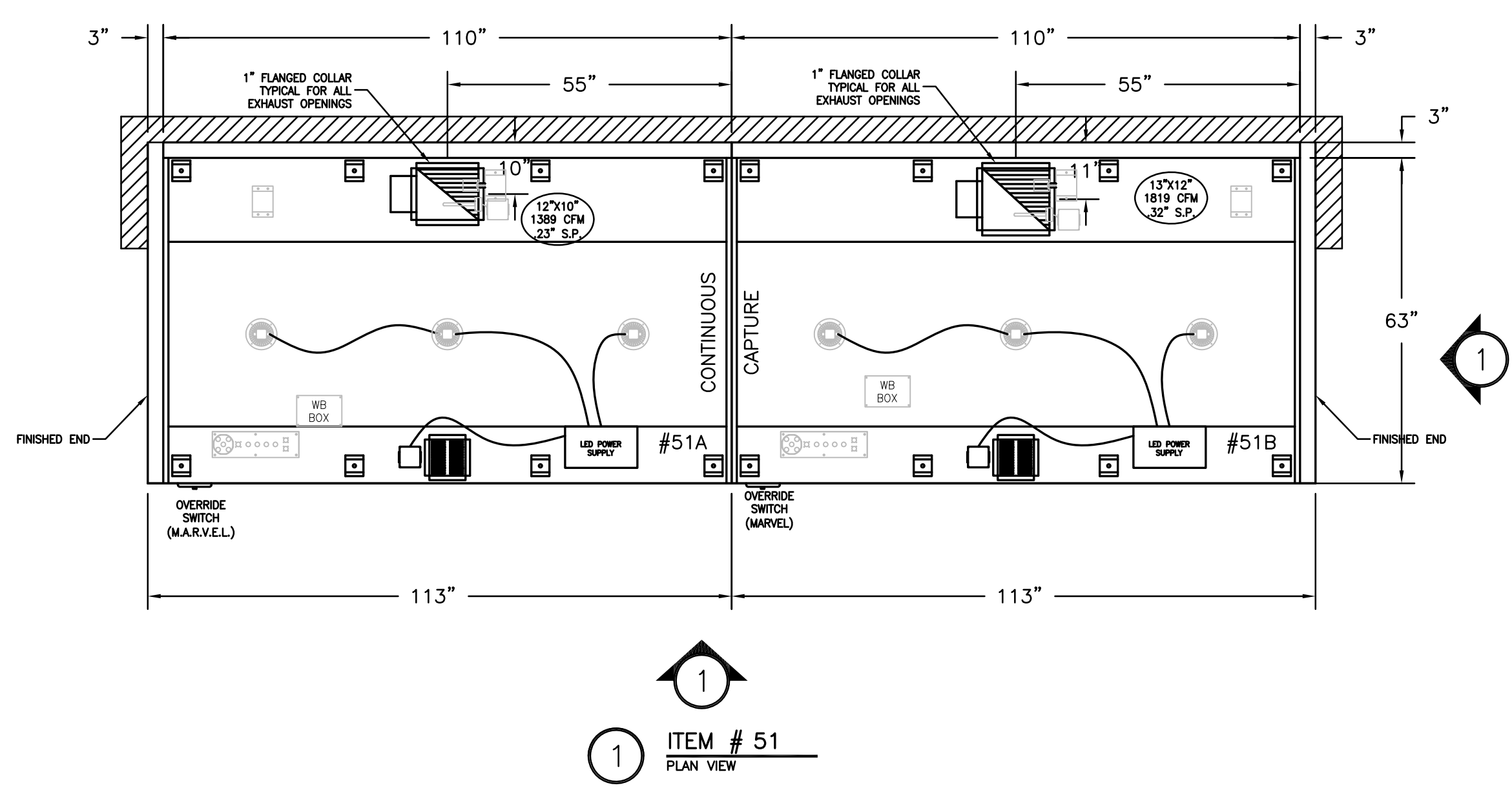
<b>PRODUCTION KITCHEN 1</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>HALTON - PLANS and DETAILS #39 - FIRE SYSTEM</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-62</b>		OF SHEETS

HOOD INFORMATION TABLE												
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS				GREASE EXTRACTOR			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)		
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR	QTY.	SIZE	TYPE				
					QTY.	LENGTH	WIDTH					
51A	KVE	1389	.12"	.23"	1	12"	10"	5	20" x 13"	KSA	ALL 18GA. 304 S.S.	862
51B	KVE	1819	.21"	.32"	1	13"	12"	5	20" x 13"	KSA	ALL 18GA. 304 S.S.	862
-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL EXH. CFM = 3208												

## PRODUCTION KITCHEN 1

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH ENG.



### GENERAL SPECIFICATIONS

- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONNEL AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96. REMOVAL OF SMOKE AND GREASE LADEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

### INSTALLATION REQUIREMENTS

- #### KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTIONS.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

### ELECTRICAL CONTRACTOR'S REQUIREMENTS

- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

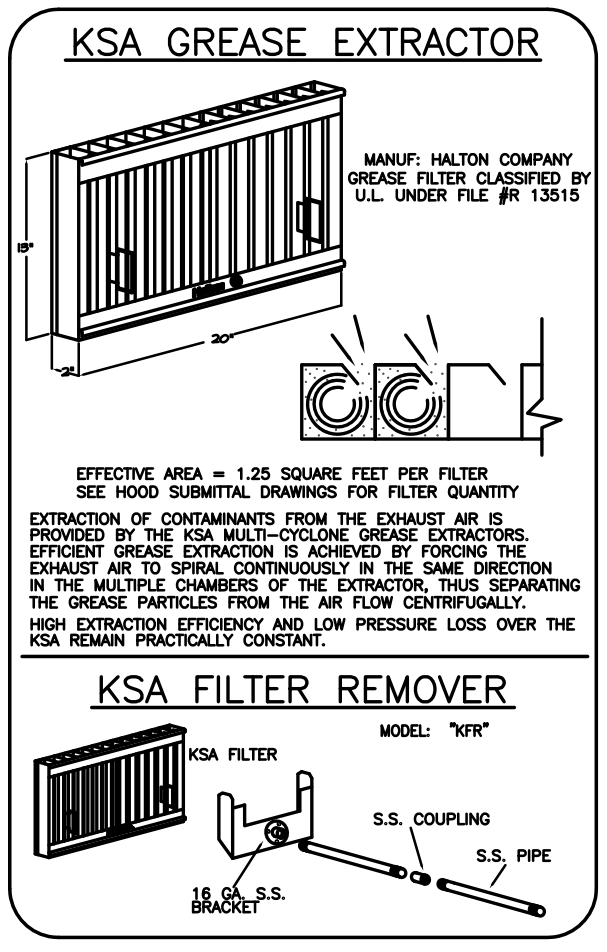
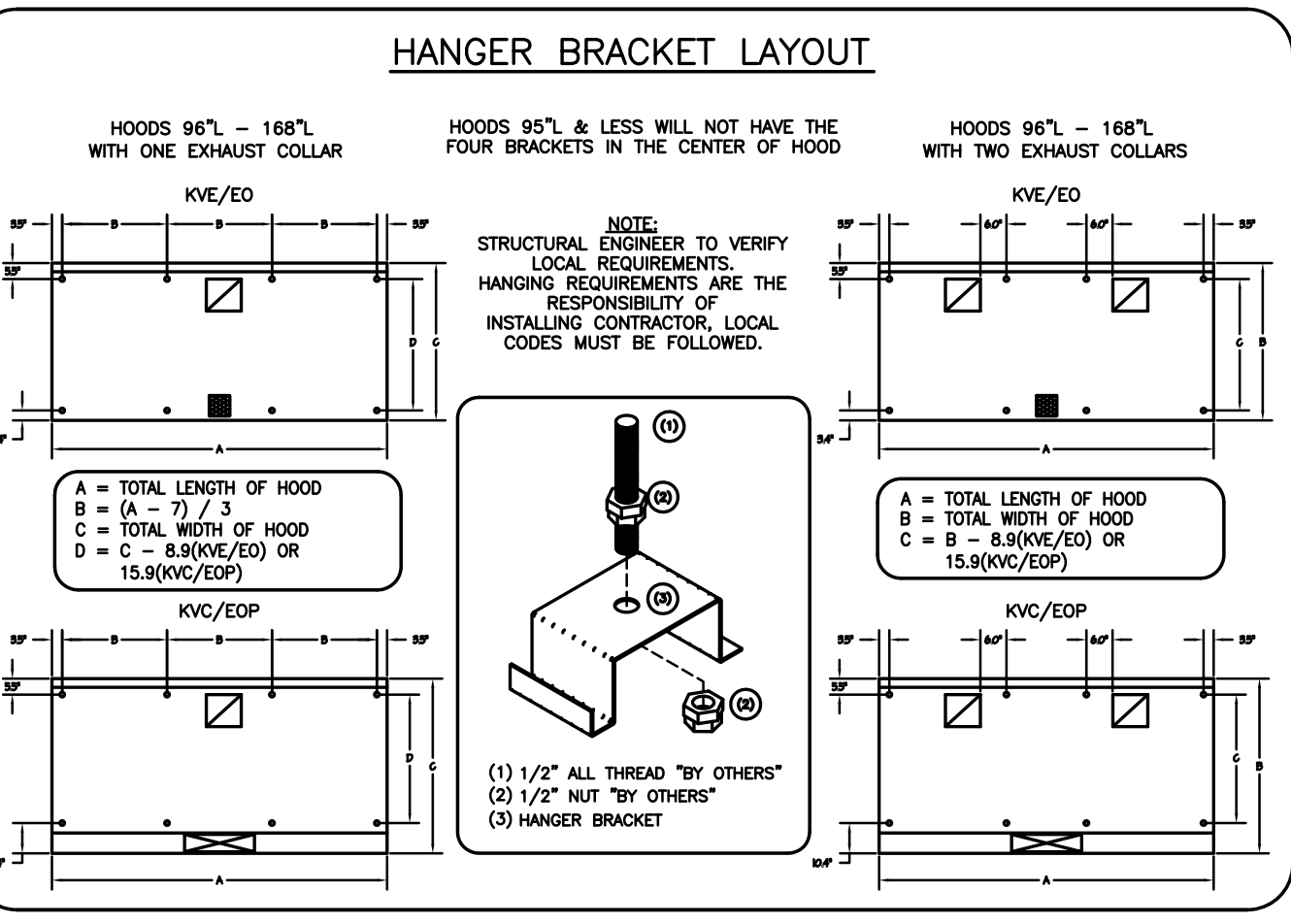
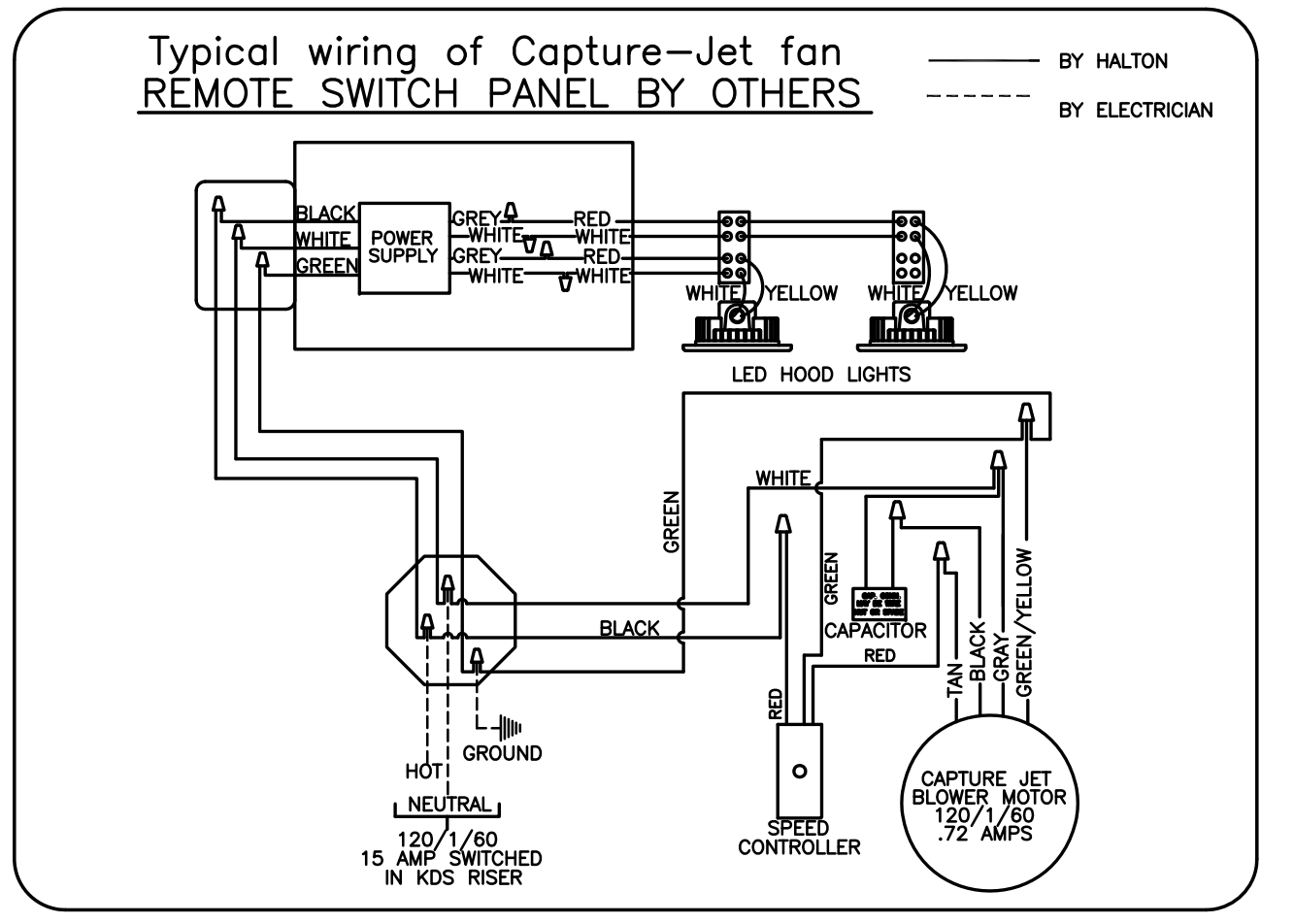
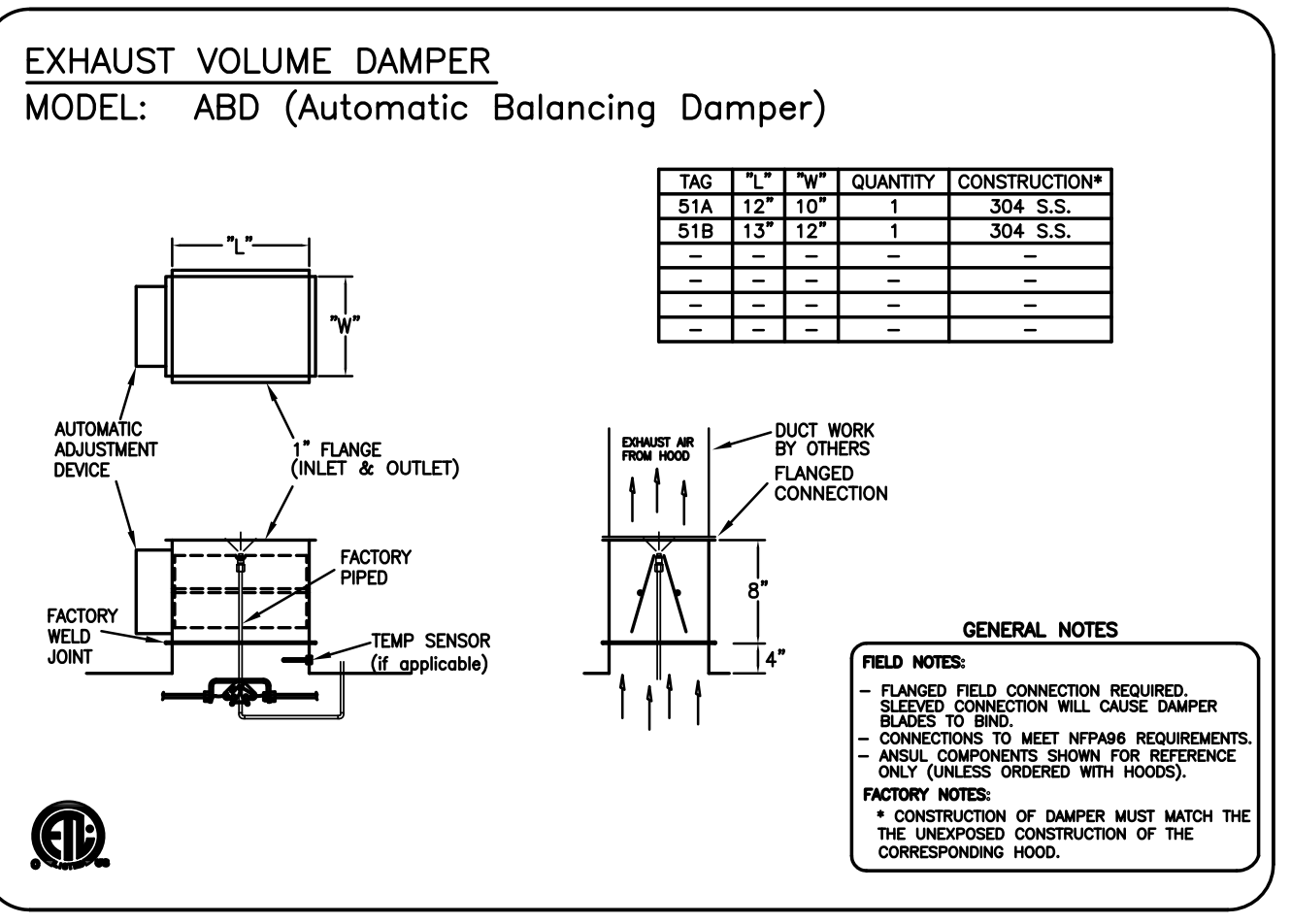
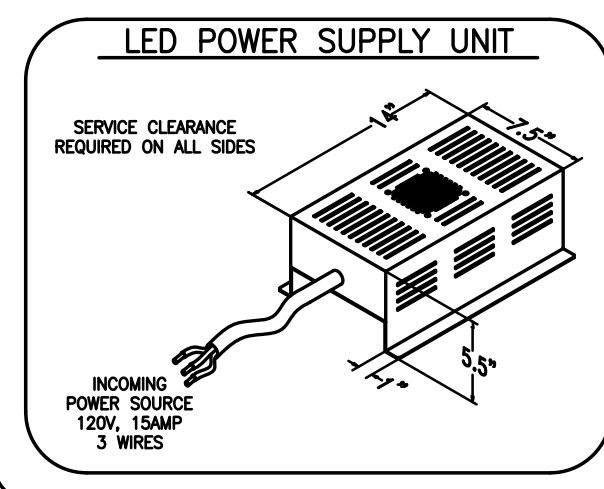
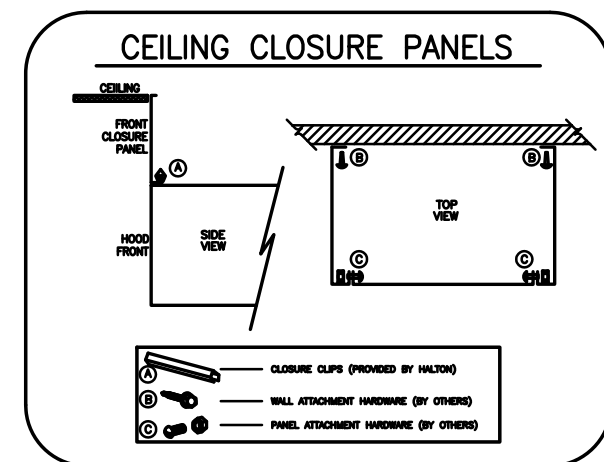
### ELECTRICAL EQUIPMENT REQUIREMENTS

- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .67 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA.
  - CAPTURE JET FAN= .72 AMP EA.
- \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*  
ARE TO BE PROVIDED BY OTHERS\*\*

### CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:



### PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE EXTRACTION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

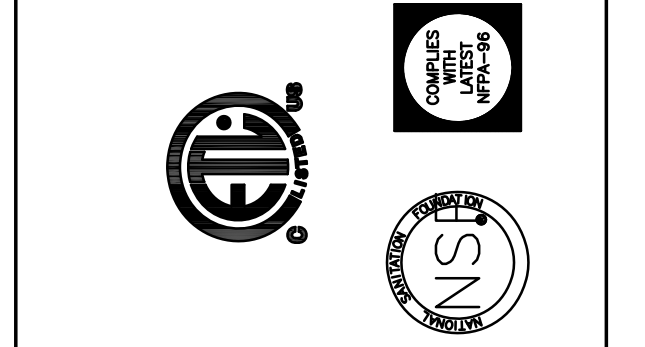
THE DRAWING MUST BE REVISIONED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING INFORMATION, MOUNTING POSITIONS AND CLEARANCES.

- ALL DIMENSIONS.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE: TO AVOID COLLISIONS WITH EXHAUST AIR FLOW, HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION OF EXHAUST AIR FLOW MAY BE REQUIRED.

REVISION AND RESUBMIT  WITH NO CHANGES  WITH CHANGES AS NOTED

APPROVED FOR FABRICATION



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSVILLE, KY 42164  
1-270-237-5600

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

REV.	REVISION DESCRIPTION	BY	DATE
1	REVISED HOODS	WU	01.30.14
2	ADDED NOTE	WU	04.09.14
3	REMOVED MIA	WU	04.21.14
4	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
5			
6			
7			

PROJECT: JOLIET JUNIOR COLLEGE

LOCATION: JOLIET, IL

DRAWN BY: WU DATE: 12.04.12

SCALE: NOT TO SCALE

CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS

DRAWING NO.: U12-719

REV. NO.: 4 SHEET NO.: 11 of 29

## PRODUCTION KITCHEN 1 ISSUED FOR CONSTRUCTION

HALTON - PLANS and DETAILS #51

CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE

PROJECT NO.  
CDB 810-048-023

DATE  
DEC. 12, 2014

SHEET NO.  
FSE-63  
OF SHEETS

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED	OFF.
XXX	XXX	XXX
CHECKED	APPROVED	DATE
XXX	EFW	

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 212.496.0000

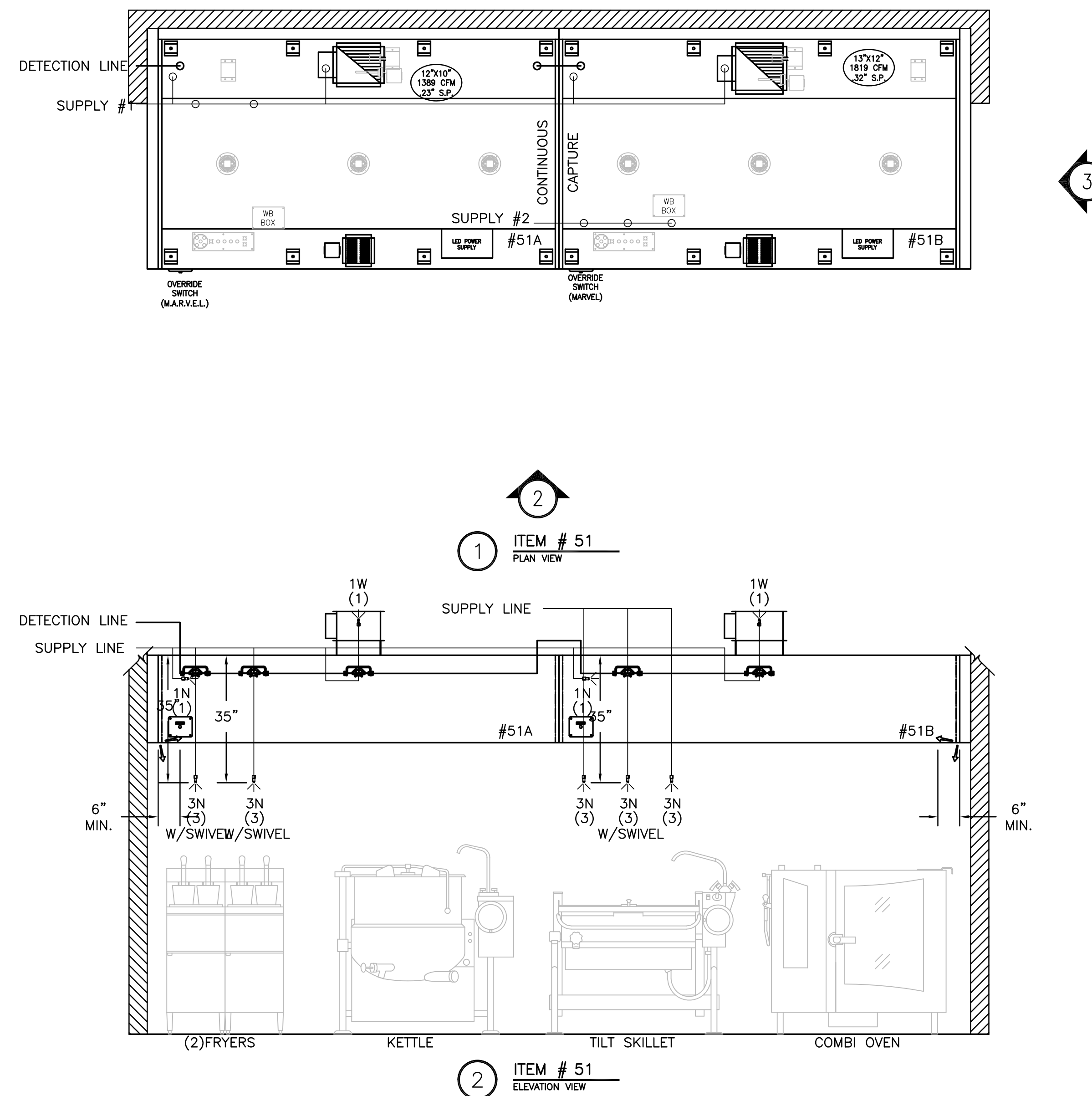
**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

# PRODUCTION KITCHEN 1

## RECOMMENDED PIPING

FIRE SYSTEM TO BE FURNISHED AND INSTALLED IN THE FIELD BY THE GC'S FIRE SYSTEM INSTALLATION CONTRACTOR. THIS SHEET CONTAINS HALTONS RECOMMENDED PIPING DETAILS



- 1) ANSUL R-102 FIRE SYSTEM
- 2) FIRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

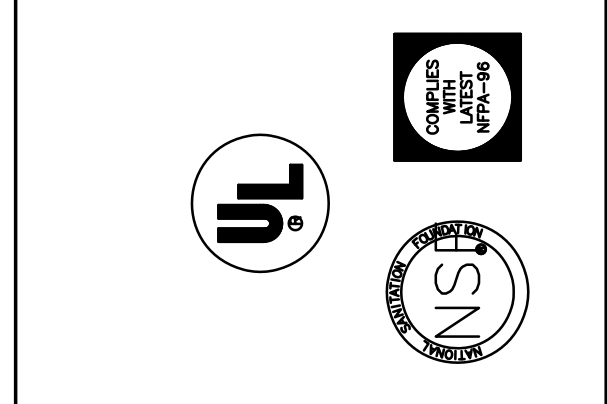
THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

**NOTE TO APPROVER:** COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

REVERSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED HOODS	WU	01.30.14
2	NO CHANGE	WU	04.09.14
3	REMOVED MIA	WU	04.21.14
4	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.04.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-677
REV. NO.:	4
SHEET NO.:	12 of 29



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W.W ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**PRODUCTION KITCHEN 1**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #52 - FIRE SYSTEM**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. **FSE-64** OF SHEETS





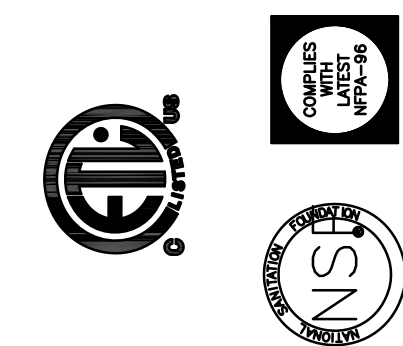
ELECTRICAL & DATA CABLE CONNECTION SCHEDULE

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO	CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-M	120V, 15AMP - CONTROL PANEL POWER - 3 WIRES	BUILDING SOURCE	CONTROL PANEL	E24-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #23C
E2-M	BROADBAND INTERNET CONNECTION	BUILDING SOURCE	CONTROL PANEL	E25-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #23C	HOOD #23D
E3-M	FIRE MODE SIGNAL - TO FIRE SUPPRESSION PANEL - 2 WIRES	CONTROL PANEL	FIRE SYSTEM	E26-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #23D
E4-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	CONTROL PANEL	HOOD #51A	E27-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #23D	HOOD #23E
E5-M	0-10V MUA SIGNAL TO BMS - 2 WIRES	CONTROL PANEL	BMS	E28-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #23E
E6-M	FIELD CONNECTION FOR MAIN DUCT GREASE SENSOR - 3 WIRES	CONTROL PANEL	GREASE SENSOR	E29-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #23E	HOOD #23F
E7-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD	E30-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #23F
E8-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD	E31-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #23F	HOOD #23G
E9-M	2 WIRES TO SPACE TEMPERATURE SENSOR	CONTROL PANEL	TEMP SENSOR	E32-H	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #23G
E10-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD	E33-H	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #23G	HOOD #23H
E11-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR	E34-H	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #23H
E12-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD	E35-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #51A
E13-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR	E36-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #51A	HOOD #51B
E14-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #51A	E37-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #38
E15-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #51A	HOOD #51B	E38-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #23A
E16-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #51B	E39-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #23A	HOOD #23B
E17-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #51B	HOOD #38	E40-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #23C
E18-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #38	E41-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #23C	HOOD #23D
E19-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #38	HOOD #23A	E42-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #23E
E20-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #23A	E43-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #23E	HOOD #23F
E21-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #23A	HOOD #23B	E44-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #23G
E22-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #23B	E45-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #23G	HOOD #23H
E23-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #23B	HOOD #23C	E46-M	3 WIRE STP CABLE - PLENUM RATED - TO BMS(BACNET)	CONTROL PANEL	BMS

PRODUCTION KITCHEN 1

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
**NOTE TO APPROVER:** COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVISE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:	WEBSITE: WWW.HALTONCOMPANY.COM
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301	HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42164 1-270-237-5600
PROJECT: JOLIET JUNIOR COLLEGE	DATE: 01.28.14
LOCATION: JOLIET, IL	BY: WU
DRAWN BY: WU	DATE: 04.09.14
SCALE: NOT TO SCALE	BY: WU
CONSULTANT: E.F. WHITNEY	DATE: 04.21.14
REVISION DESCRIPTION	BY: WU
1 INCLUDED MARVEL SHEETS	DATE: 06.03.14
2 REVISED SCHEDULE	
3 NO CHANGE	
4 NO CHANGE	
5	
6	
7	

PROJECT: JOLIET JUNIOR COLLEGE	DATE: 01.28.14
LOCATION: JOLIET, IL	BY: WU
DRAWN BY: WU	DATE: 04.09.14
SCALE: NOT TO SCALE	BY: WU
CONSULTANT: E.F. WHITNEY	DATE: 04.21.14
REVISION DESCRIPTION	BY: WU
1 INCLUDED MARVEL SHEETS	DATE: 06.03.14
2 REVISED SCHEDULE	
3 NO CHANGE	
4 NO CHANGE	
5	
6	
7	

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJWW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>PRODUCTION KITCHEN 1 ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>M.A.R.V.E.L. SYSTEM DETAILS #23</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-66</b> OF SHEETS



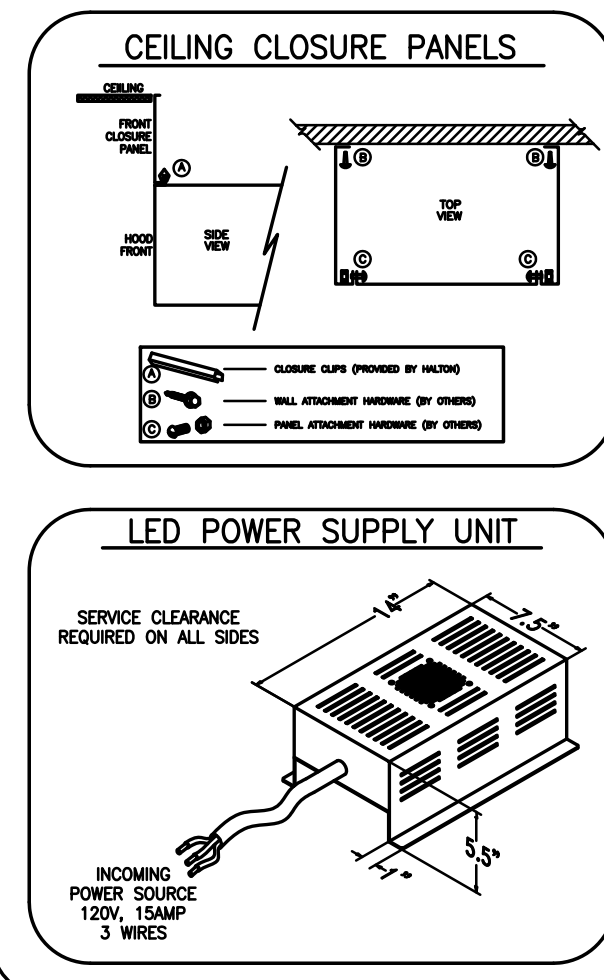
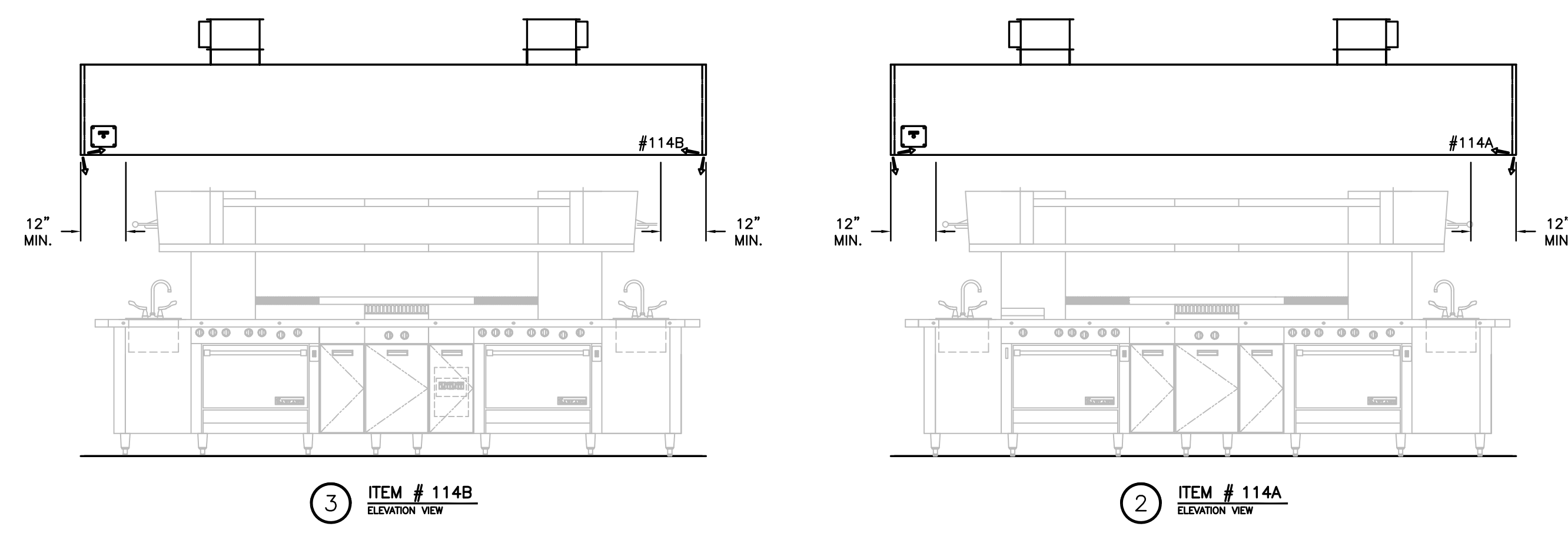
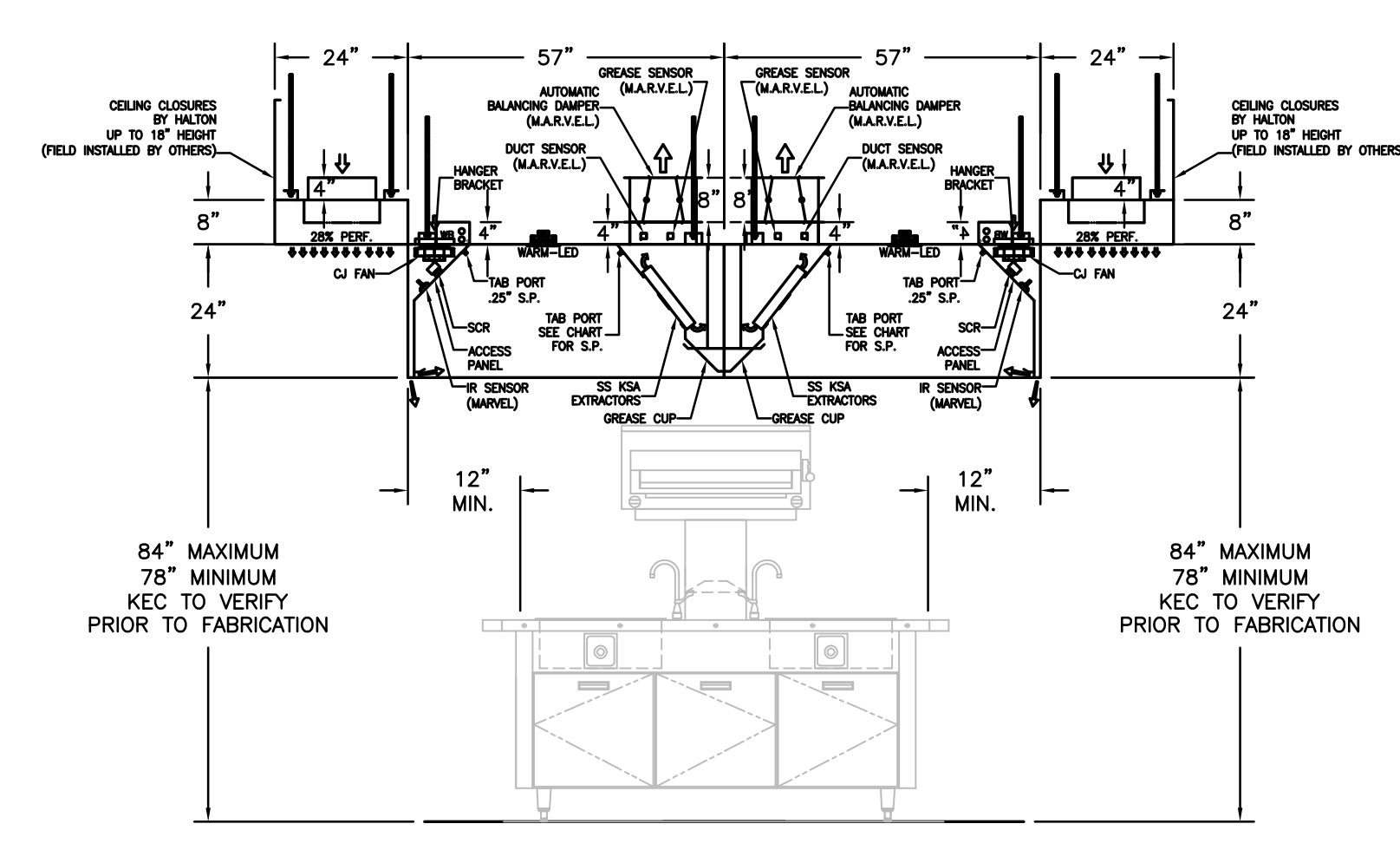
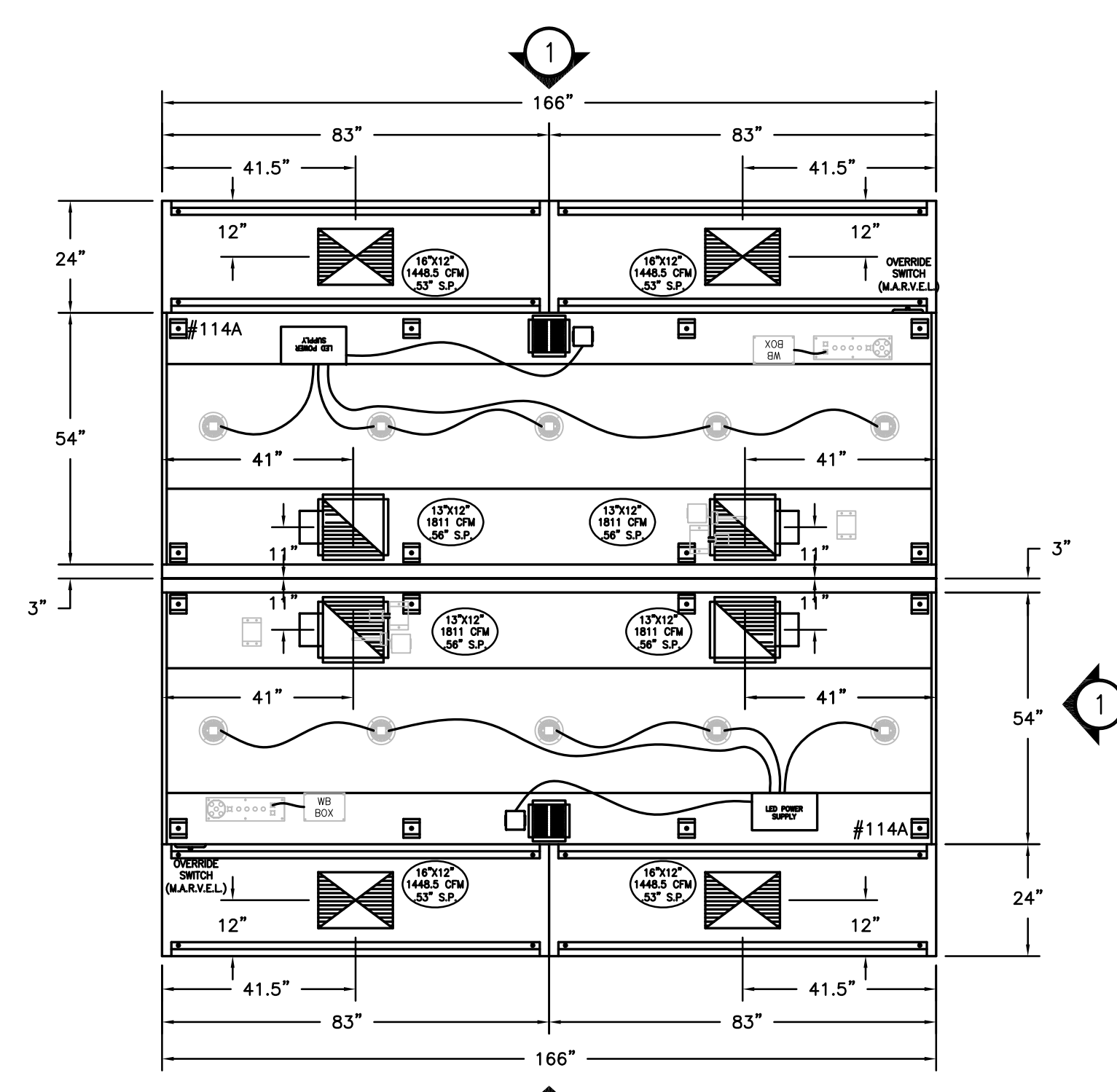
# PRODUCTION KITCHEN 2

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH ENG.

HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS			GREASE EXTRACTOR			SUPPLY AIR REQUIREMENTS			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)									
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR QTY.	EXHAUST COLLAR LENGTH	EXHAUST COLLAR WIDTH	QTY.	SIZE L	SIZE H				TYPE	SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR QTY.	SUPPLY COLLAR LENGTH	SUPPLY COLLAR WIDTH			
114A	KVE	3622	.45"	.56"	1	13"	12"	8	20"	13"	KSA	1448.5	EA	.53"	1	EA	16"	12"	ALL 18GA. 304 S.S.	1141	104	EA
114B	KVE	3622	.45"	.56"	1	13"	12"	8	20"	13"	KSA	1448.5	EA	.53"	1	EA	16"	12"	ALL 18GA. 304 S.S.	1141	104	EA
TOTAL EXH. CFM = 7244		TOTAL SUPPLY CFM = 5794																				

(4) FOUR TOTAL



- ### GENERAL SPECIFICATIONS
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAZEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

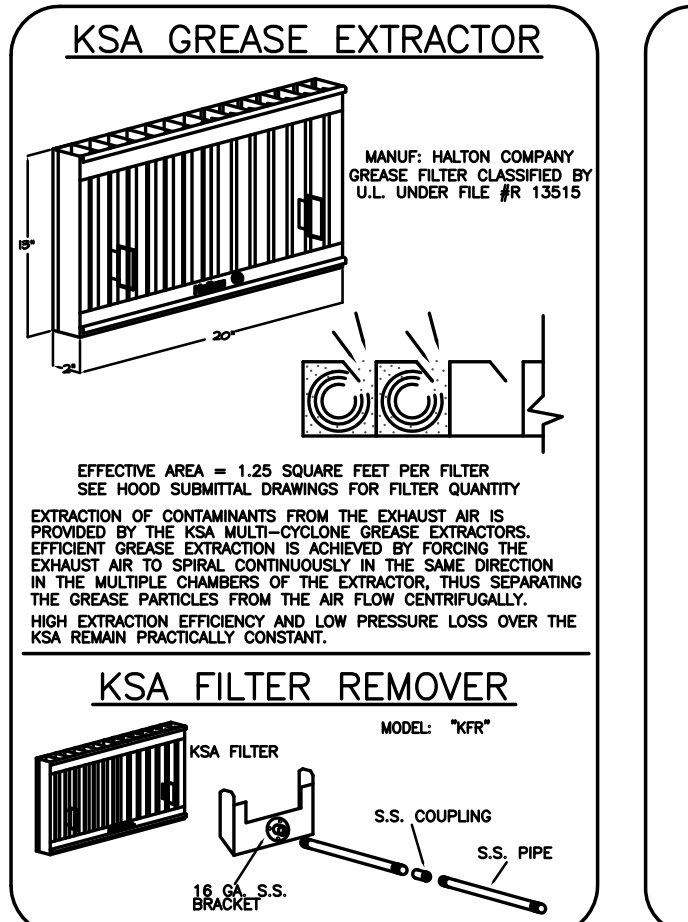
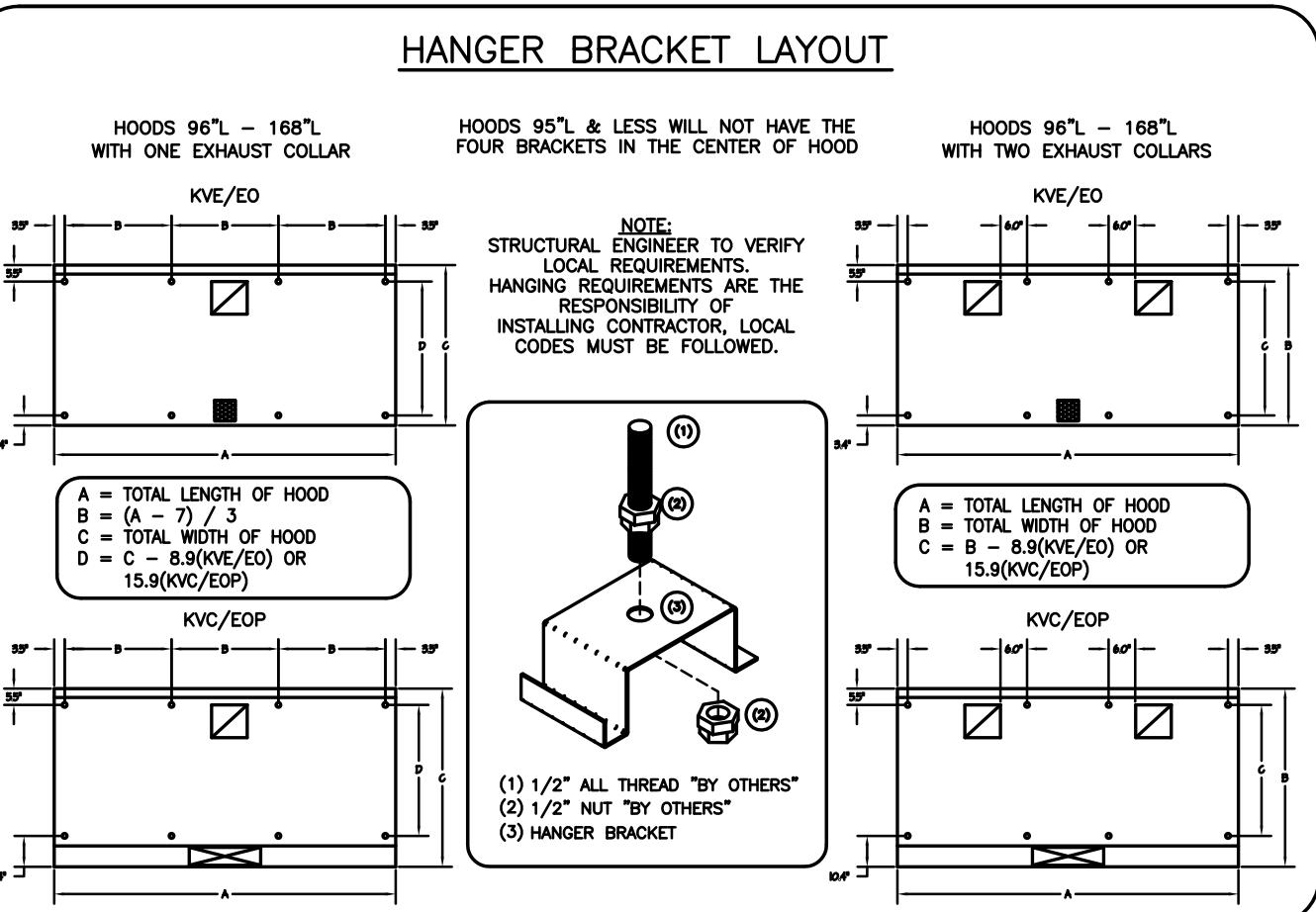
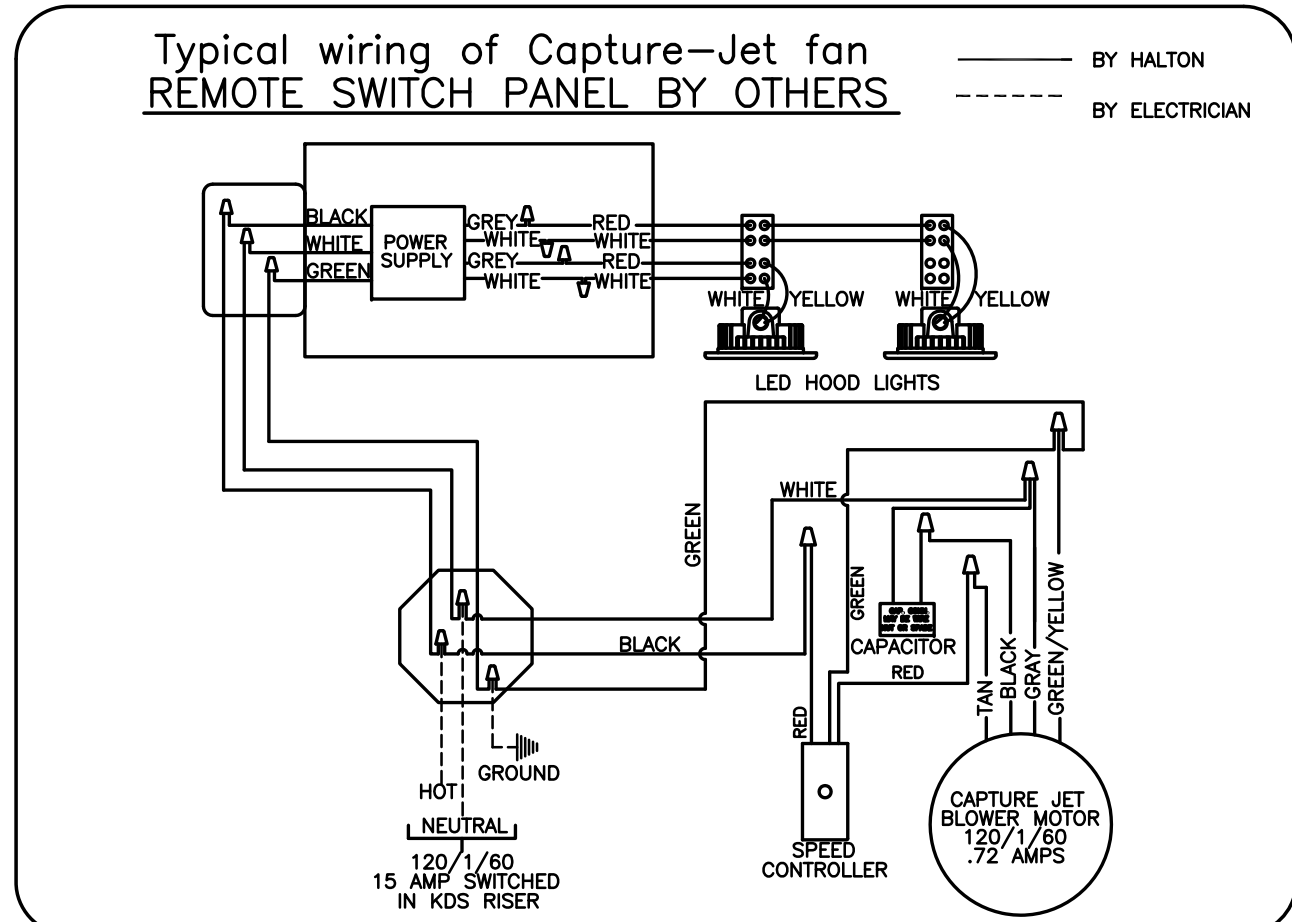
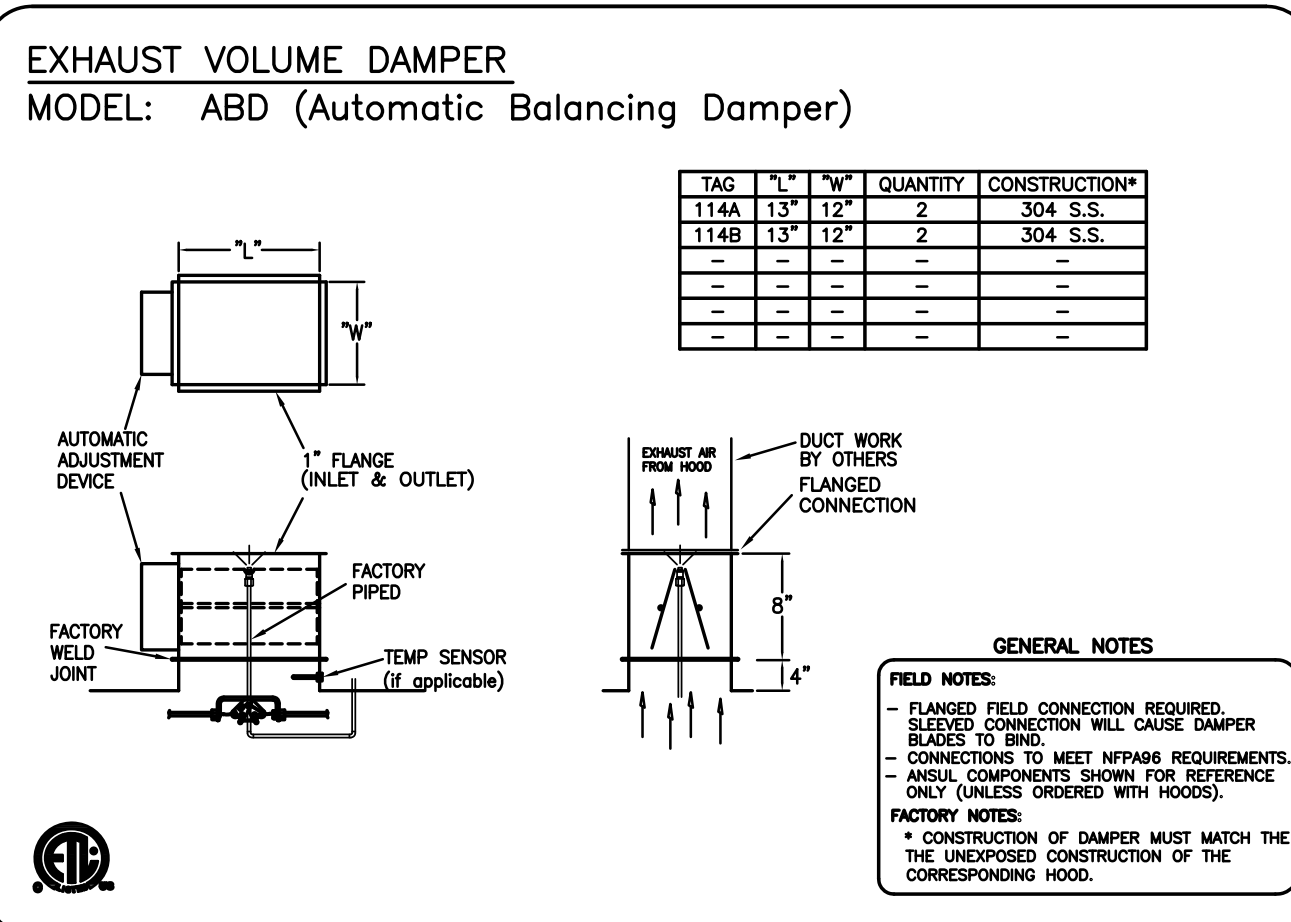
- ### INSTALLATION REQUIREMENTS
- #### KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- #### ELECTRICAL CONTRACTOR'S REQUIREMENTS
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

- ### ELECTRICAL EQUIPMENT REQUIREMENTS
- FLUORESCENT LIGHT FIXTURE 40 WATT MAX BULB= .67 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE 150 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE 100 WATT MAX BULB= .83 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA.
  - CAPTURE JET FAN= .72 AMP EA.
  - \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*
  - \*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*

### CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:



### PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

THESE DRAWINGS MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING INFORMATION. MOUNTING POSITIONS AND CLEARANCES.

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.

2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVE: APPROVE THESE DRAWINGS AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION:  WITH CHANGES AS NOTED

REVISION AND RESUBMIT:  WITH NO CHANGES

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

REV.	REVISIONS	DATE
1	REVISED HOODS	01.30.14
2	ADDED NOTE	04.09.14
3	NO CHANGE	04.21.14
4	REMOVED LIGHT SWITCH FROM HOOD	06.03.14
5		
6		
7		

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-674-0301

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, KY 42164  
1-270-237-5600

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU  
SCALE: NOT TO SCALE  
DATE: 12.04.12  
CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING NO.: U12-719  
REV. NO.: 4  
SHEET NO.: 13 of 29

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD,  
#400W NAPERVILLE, IL  
60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**PRODUCTION KITCHEN 2**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #114**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

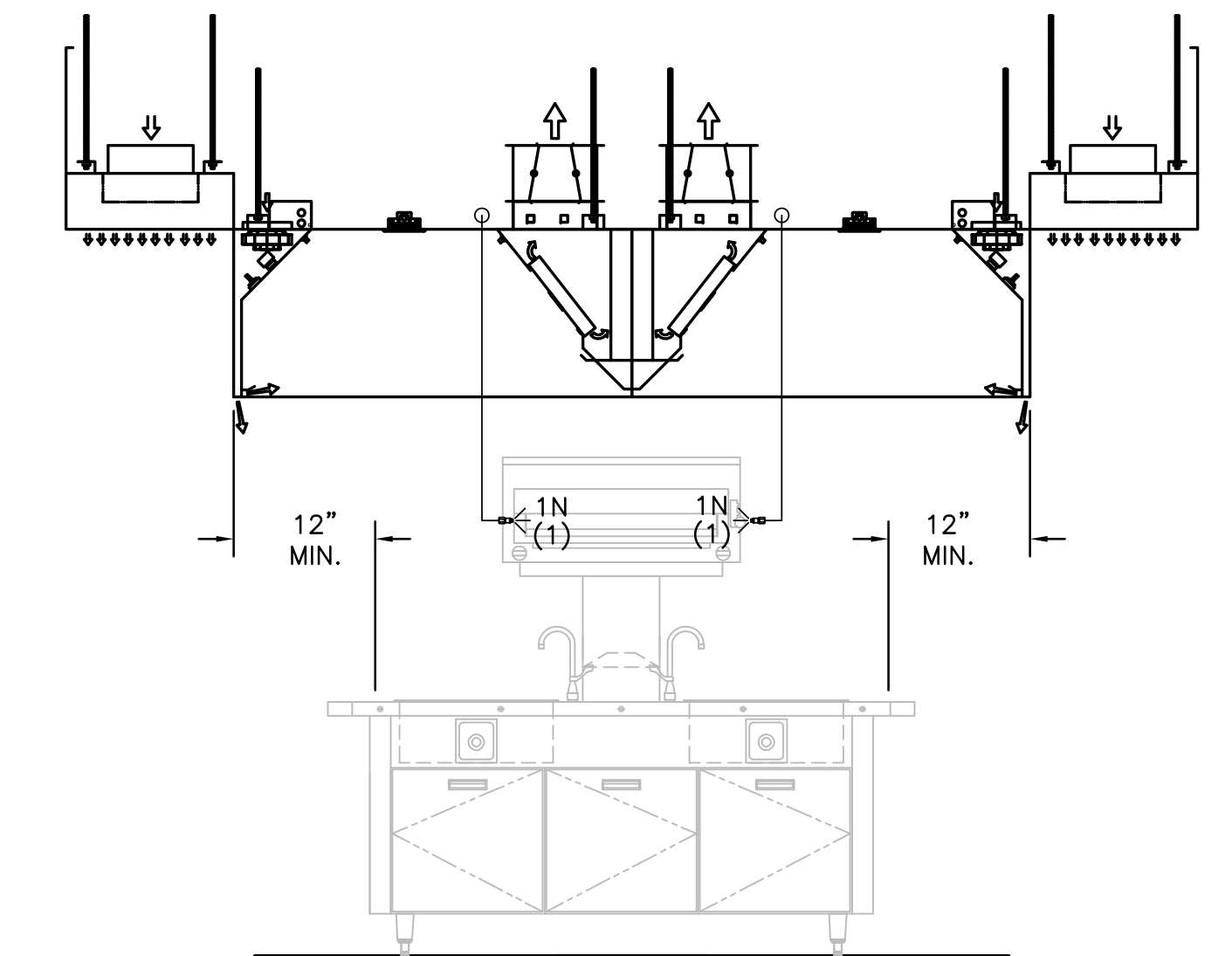
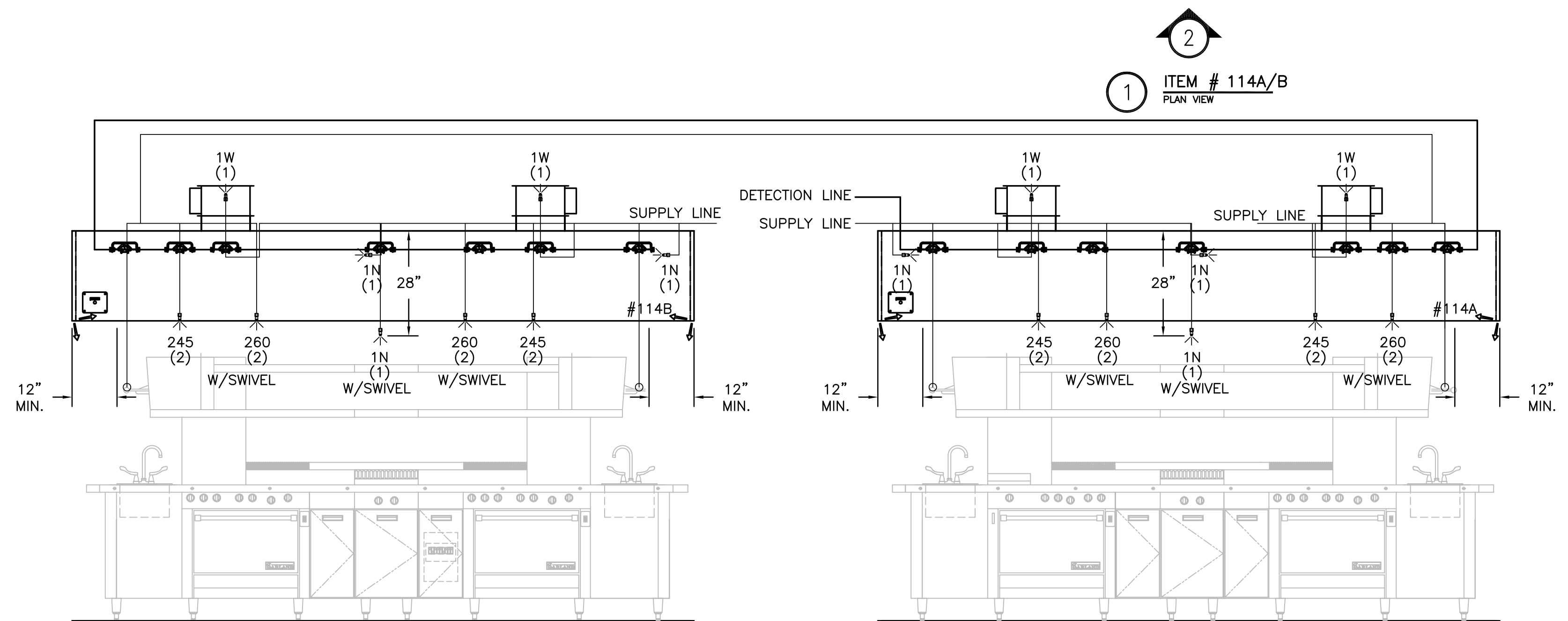
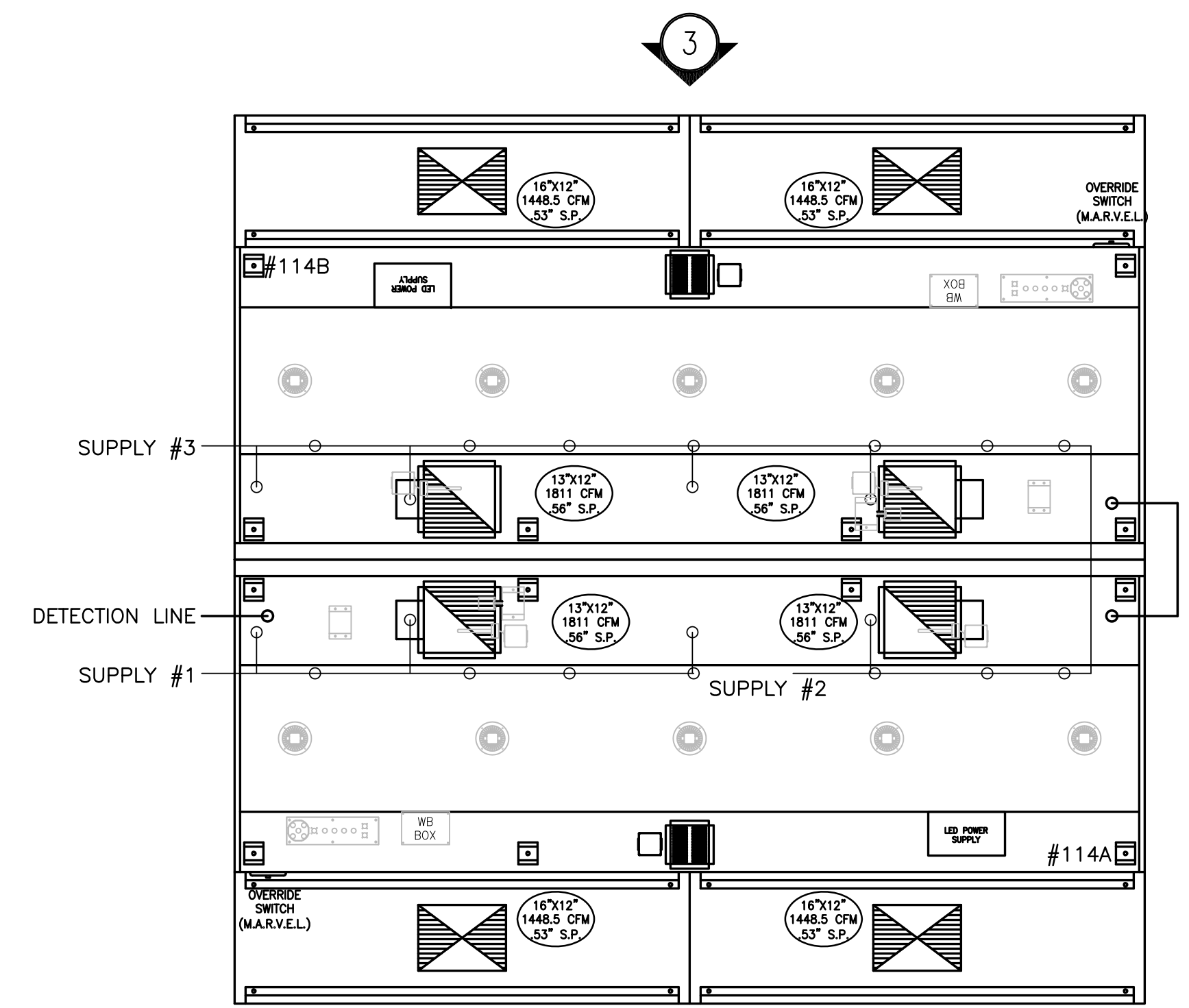
PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. FSE-67 OF SHEETS



# PRODUCTION KITCHEN 2

**RECOMMENDED PIPING**  
 FIRE SYSTEM TO BE FURNISHED AND INSTALLED  
 IN THE FIELD BY THE GC'S FIRE SYSTEM  
 INSTALLATION CONTRACTOR. THIS SHEET  
 CONTAINS HALTONS RECOMMENDED  
 PIPING DETAILS

(4) FOUR TOTAL



**NOTE**  
 ANSUL TO BE VERIFIED THAT NO  
 OBSTRUCTIONS OVER THE EQUIP.

- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

**NOTE**  
 HOODS TO BE FURNISHED  
 BY USING AGENCY AND  
 BE INSTALLED BY GC.

THIS DRAWING MUST BE REPRODUCED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

**NOTE TO APPROVER:** COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION:  REVISE AND RESUBMIT  WITH NO CHANGES  WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)  
 1021 BREVIK PLACE  
 MISSISSAUGA, ON L4W 3R7  
 1-905-624-0301

HALTON CO. (USA)  
 101 INDUSTRIAL DRIVE  
 SCOTTSVILLE, KY 42164  
 1-270-237-5600

REV.	DESCRIPTION	BY	DATE
1	REVISED HOODS	WU	01.30.14
2	NO CHANGE	WU	04.09.14
3	NO CHANGE	WU	04.21.14
4	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
5			
6			
7			

PROJECT: JOLIET JUNIOR COLLEGE  
 LOCATION: JOLIET, IL  
 DRAWN BY: WU  
 DATE: 12.04.12  
 SCALE: NOT TO SCALE  
 CONSULTANT: E.F. WHITNEY

DRAWING TITLE:  
**FIRE SYSTEM DETAILS**

DRAWING No.:  
**U12-719**

REV. NO.: 4 SHEET NO.: 14 of 29

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED	
XXX	XXX	
OFF.	OFF.	
TRACED	APPROVED	
XXX	XXX	
CHECKED	APPROVED	
XXX	EFW	

**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**K J W W** KJWW ENGINEERING  
 1100 WARRENVILLE ROAD, #400W  
 NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET  
 BIRMINGHAM, MI 48009  
 T: 248.644.0990

**PRODUCTION KITCHEN 2**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #115 - FIRE SYSTEM**

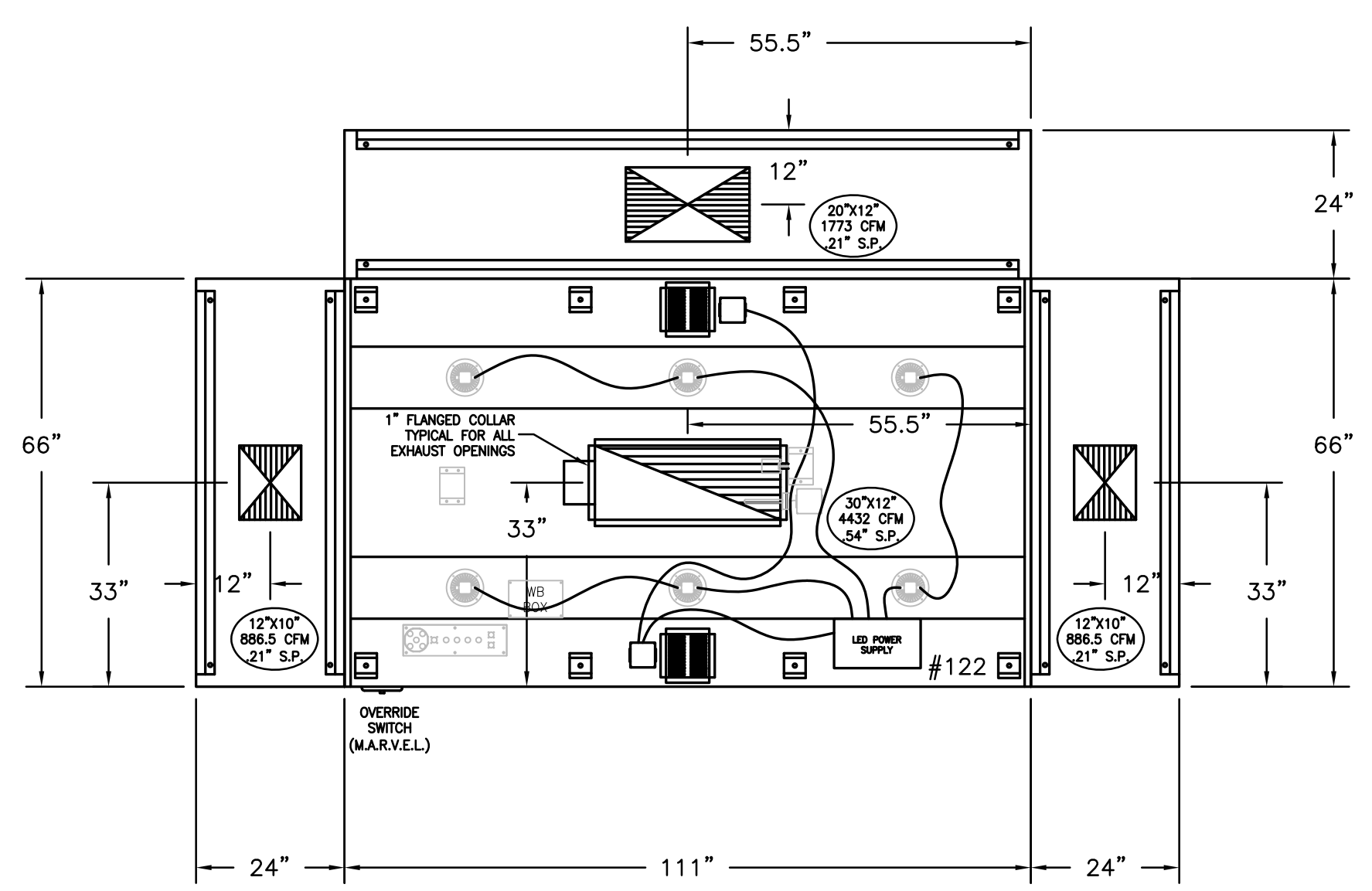
**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
 DATE DEC. 12, 2014  
 SHEET NO. **FSE-68**  
 OF SHEETS

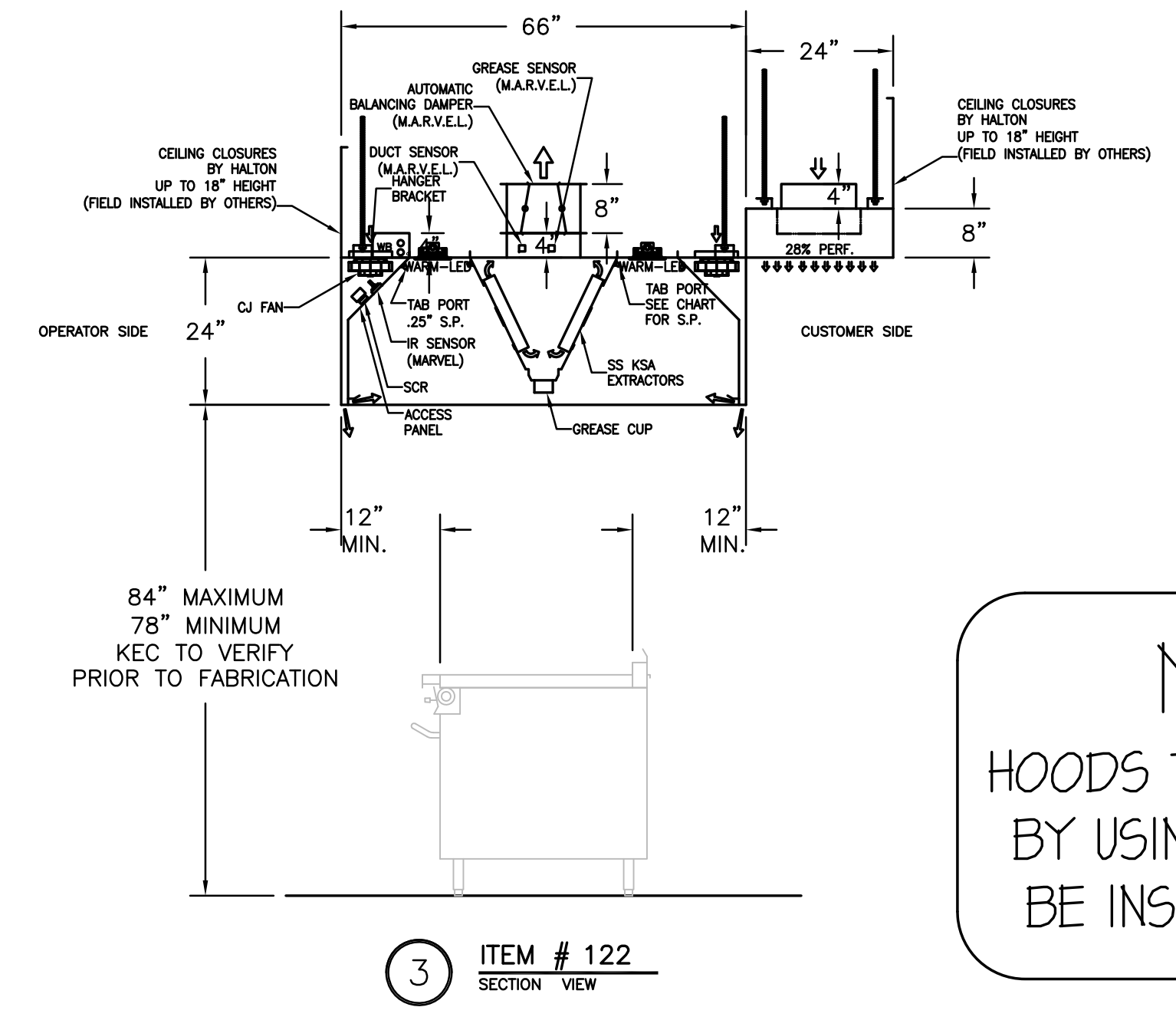
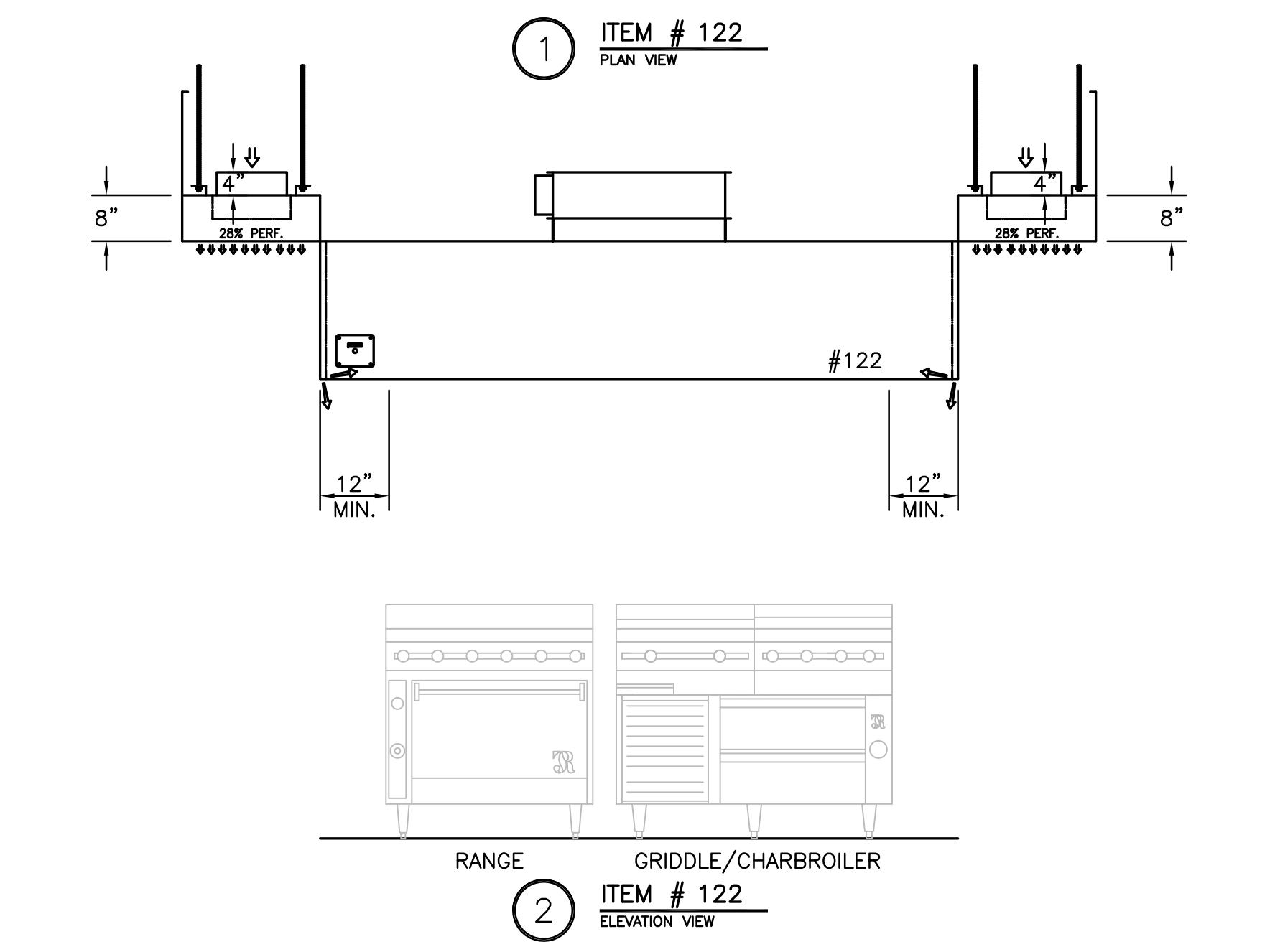
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS						GREASE EXTRACTOR			SUPPLY AIR REQUIREMENTS			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)			
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR		QTY.	SIZE	TYPE	SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR							
					QTY.	LENGTH						WIDTH	QTY.				LENGTH	WIDTH	
122	KVE	4432	.42"	.54"	1	30"	12"	10	20"	13"	KSA	1773	.21"	1	20"	12"	ALL 18GA. 304 S.S.	925	139
-	-	-	-	-	-	-	-	-	-	-	-	886.5	.21"	1	12"	10"	ALL 18GA. 304 S.S.	-	83
-	-	-	-	-	-	-	-	-	-	-	-	886.5	.21"	1	12"	10"	ALL 18GA. 304 S.S.	-	83

TOTAL EXH. CFM = 4432      TOTAL SUPPLY CFM = 3546

# PRODUCTION KITCHEN 2



**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH ENG.



**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

### GENERAL SPECIFICATIONS

- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAIDEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

### INSTALLATION REQUIREMENTS

- #### KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

### ELECTRICAL CONTRACTOR'S REQUIREMENTS

- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

### ELECTRICAL EQUIPMENT REQUIREMENTS

- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .57 AMP EA.
- RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
- GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
- LED LIGHT FIXTURES= .30 AMP EA.
- CAPTURE JET FAN= .72 AMP EA.
- \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\* ARE TO BE PROVIDED BY OTHERS\*\*

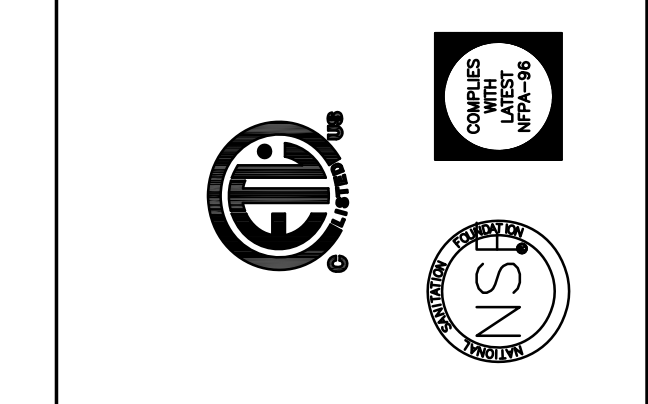
### CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:

THIS DRAWING MUST BE SIGNED, SEALED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING INFORMATION. MOUNTING POSITIONS 1. ALL DIMENSIONAL INFORMATION. MOUNTING POSITIONS 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT. NOTE TO APPROXIMATE EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

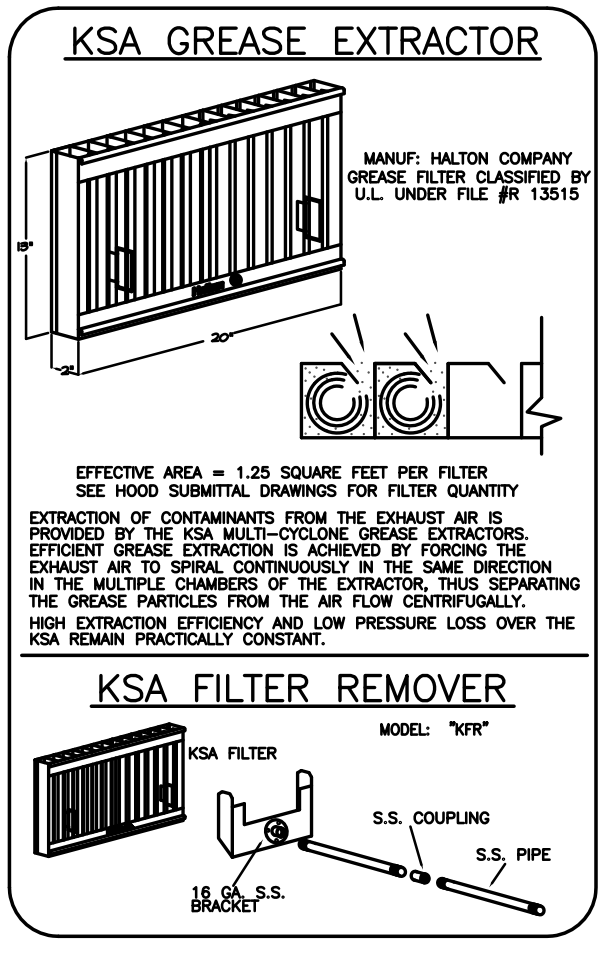
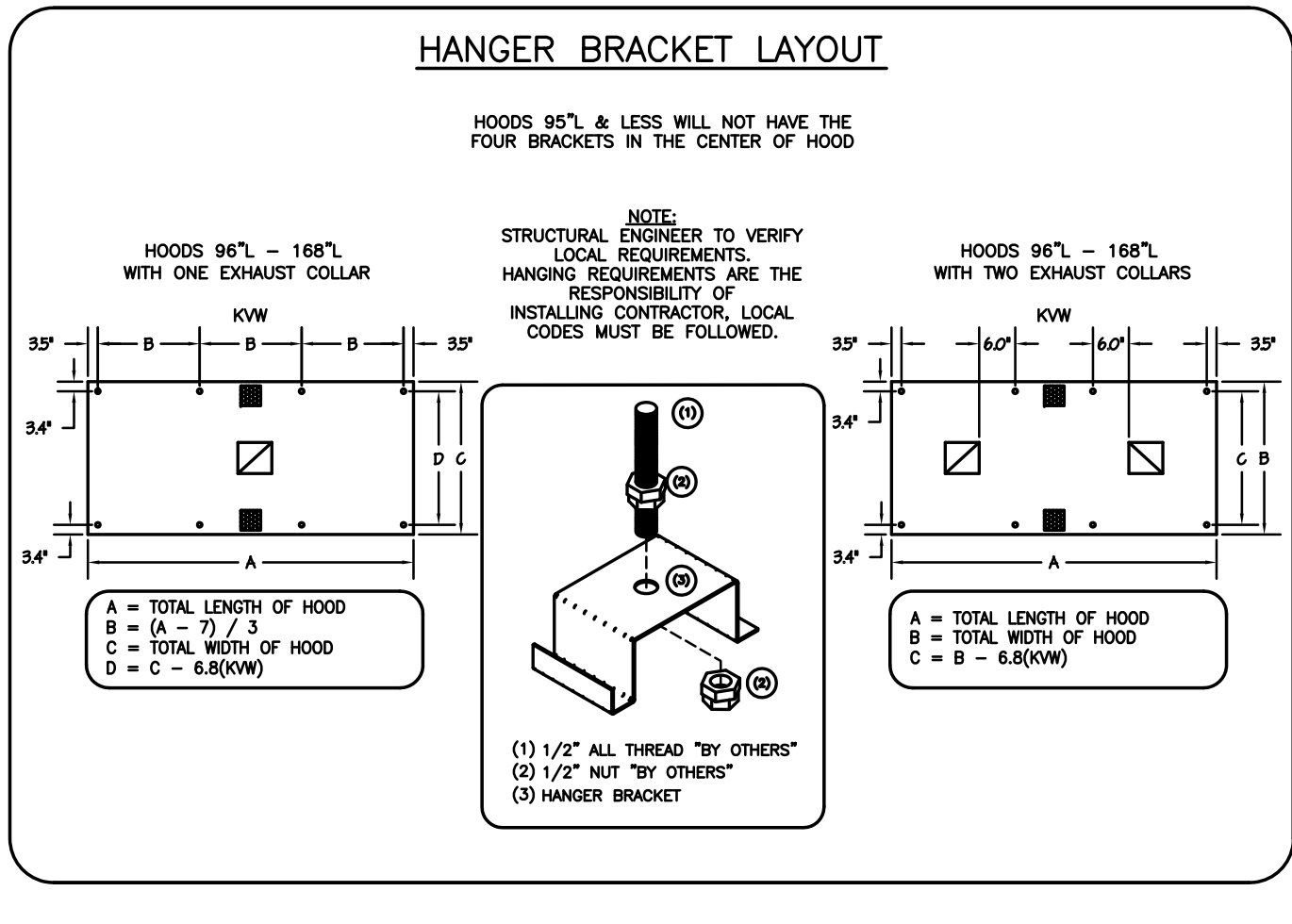
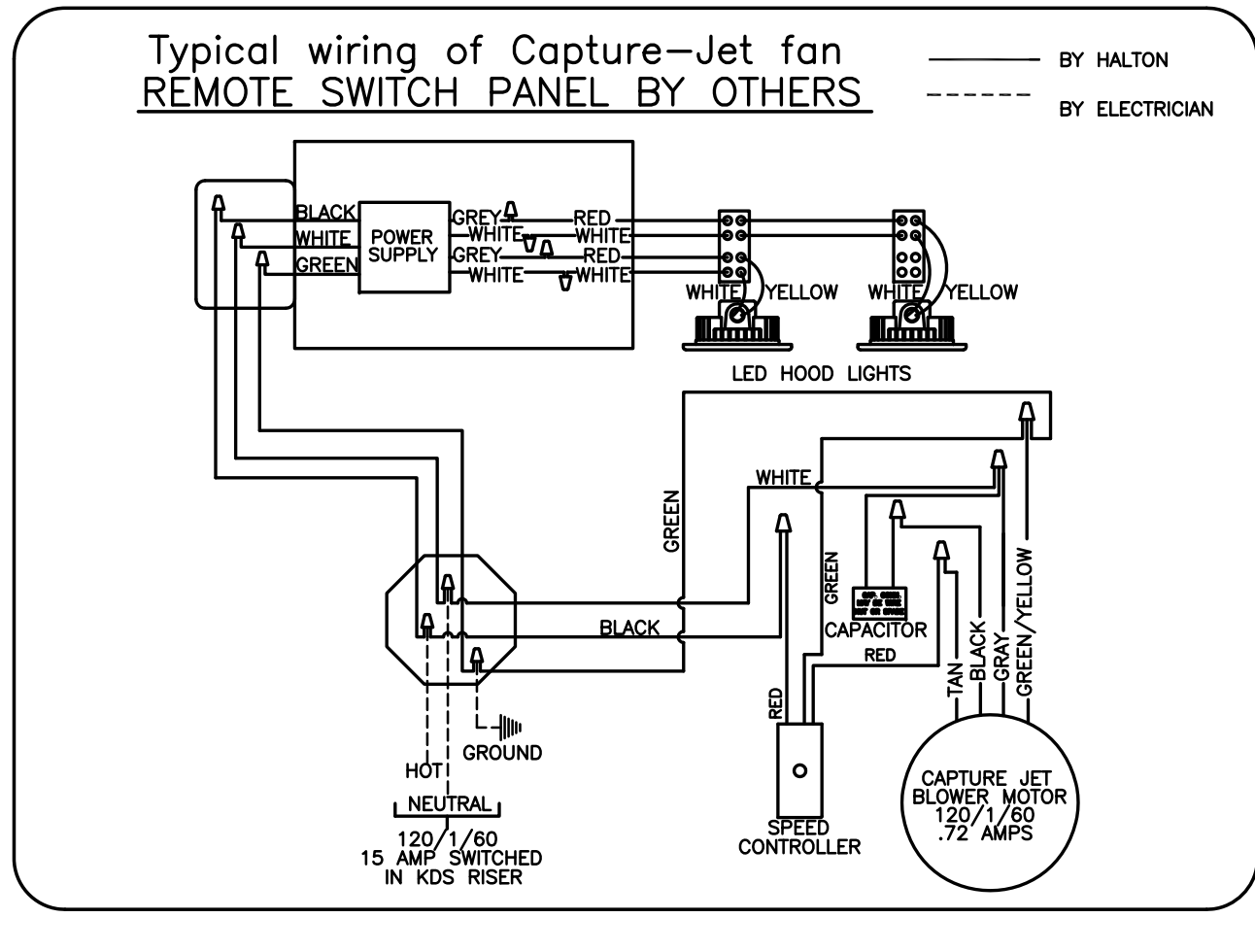
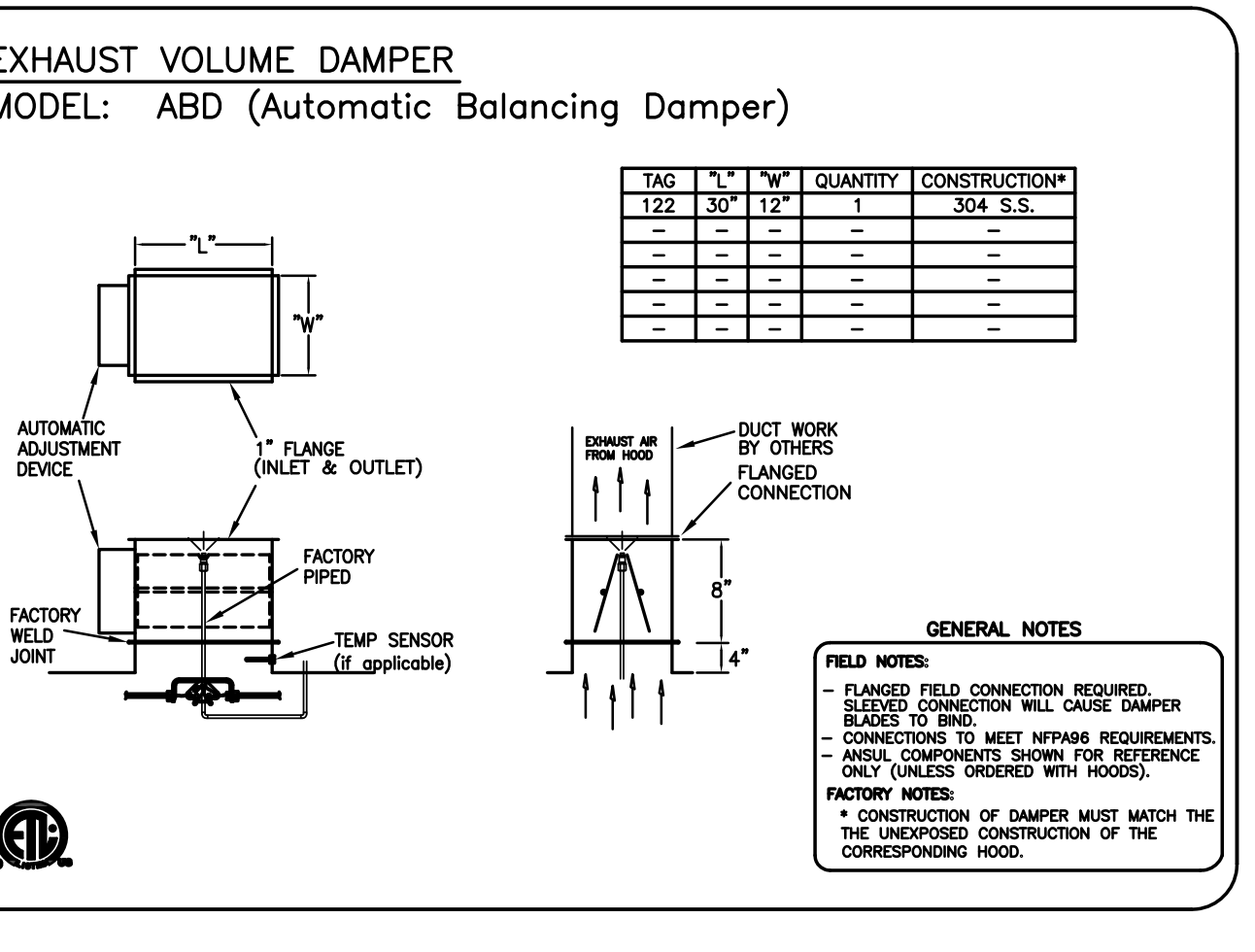
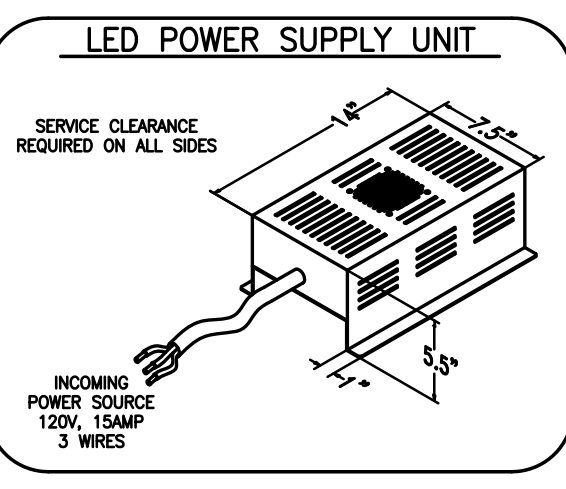
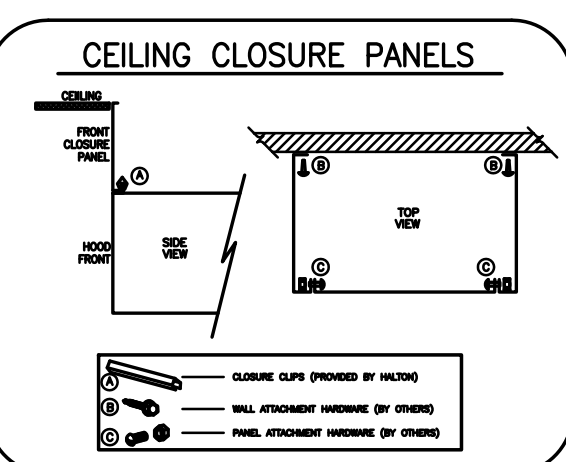
REVISION AND RESUBMIT  WITH CHANGES AS NOTED  
APPROVED FOR FABRICATION  WITH NO CHANGES



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:	WEBSITE: WWW.HALTONCOMPANY.COM
HALTON CO. (USA)	101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42164 1-270-237-5600
HALTON CO. (CANADA)	1021 BREWIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301
REVISION	DESCRIPTION
1	REVISED HOOD
2	ADDED NOTE
3	NO CHANGE
4	REMOVED LIGHT SWITCH FROM HOOD
5	
6	
7	

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU  
DATE: 12.04.12  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING No.: U12-719  
REV. NO.: 4 SHEET NO.: 21 of 29



### PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED	OFF.
TRACED	APPROVED	XXX
CHECKED	APPROVED	XXX
		EFW

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.696.0000

**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

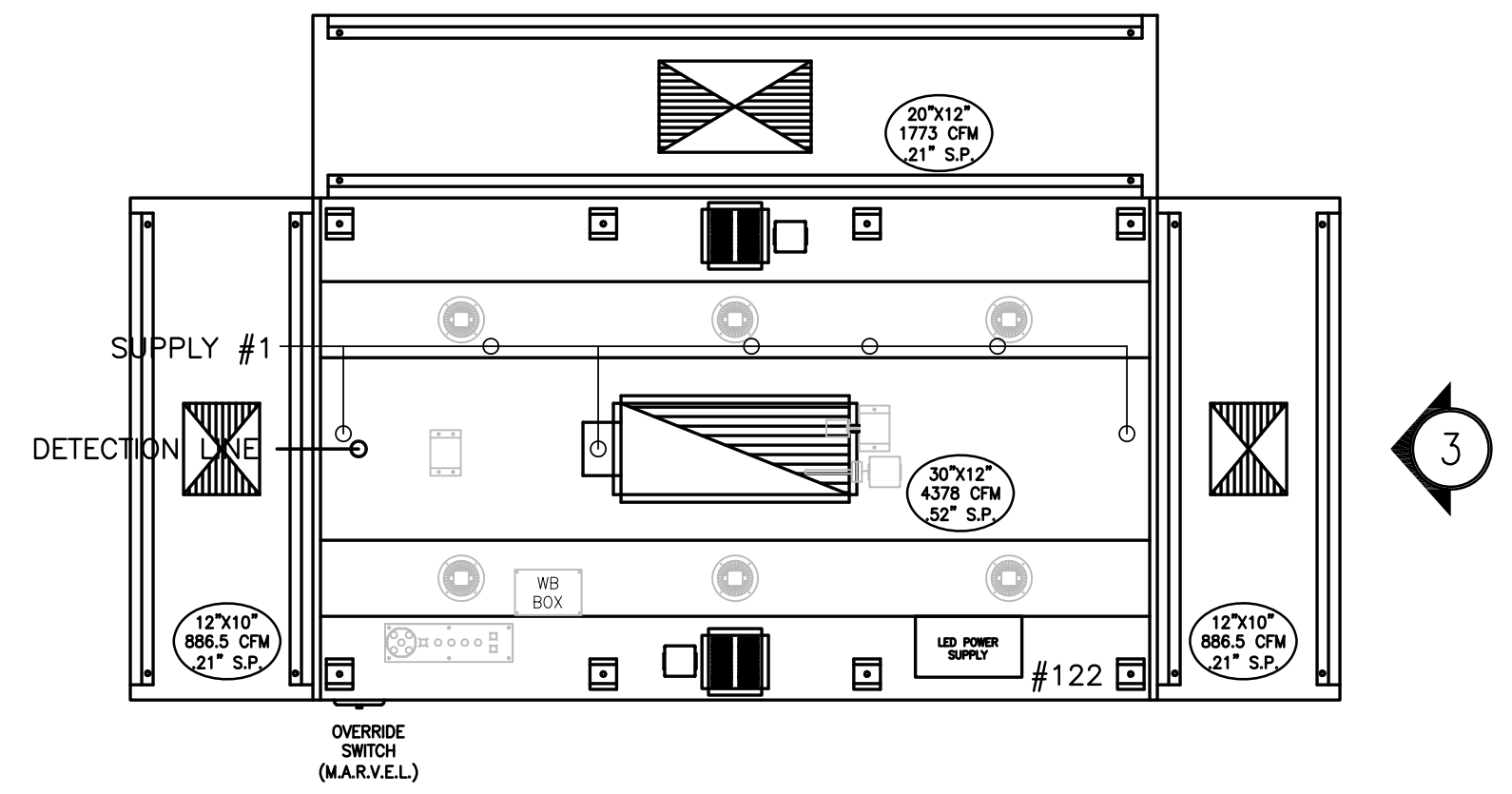
**PRODUCTION KITCHEN 2**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #122**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

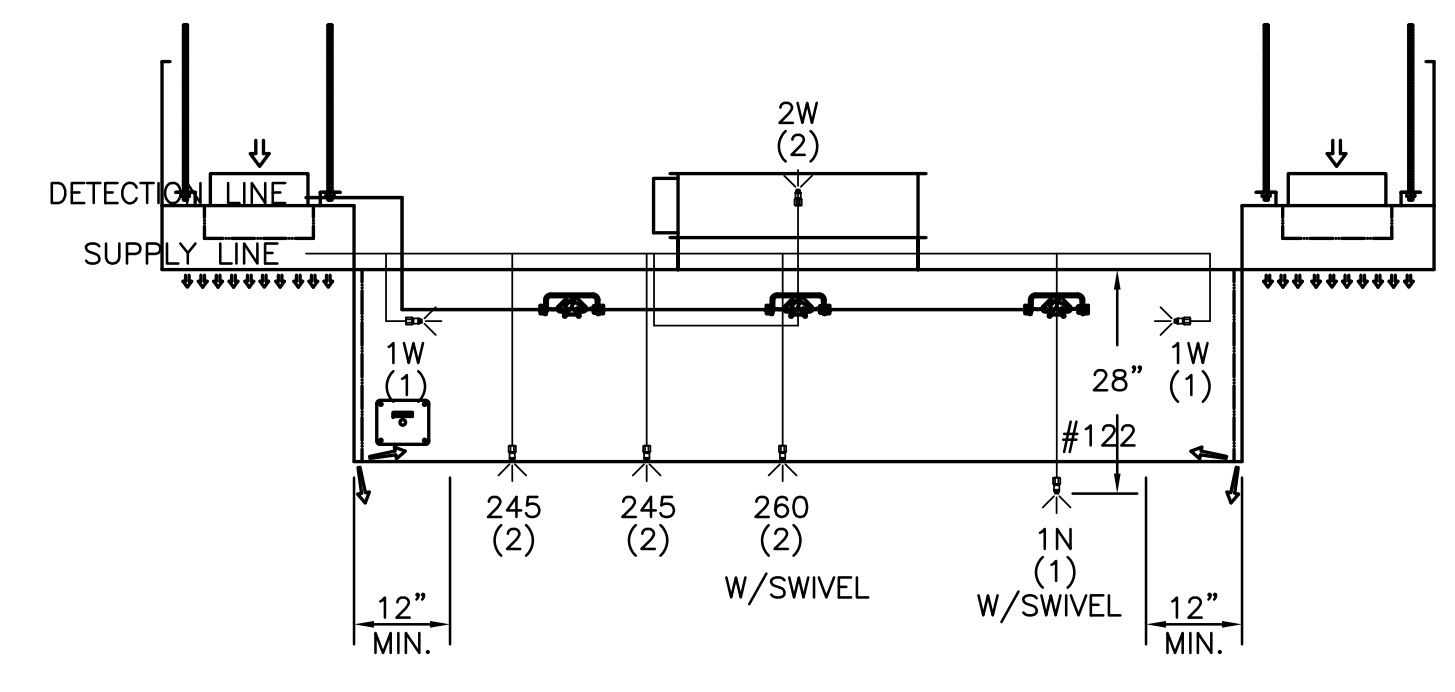
PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. FSE-69 OF SHEETS

# PRODUCTION KITCHEN 2

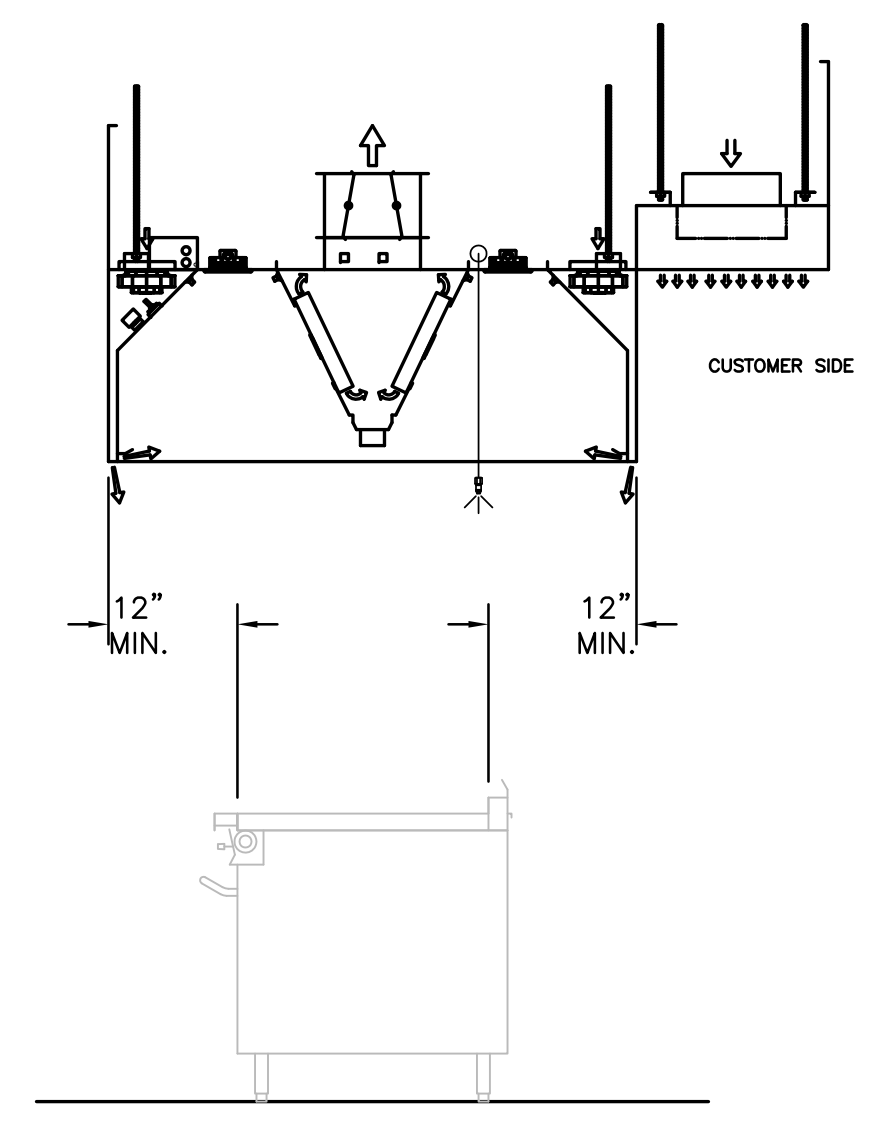
**RECOMMENDED PIPING**  
 FIRE SYSTEM TO BE FURNISHED AND INSTALLED  
 IN THE FIELD BY THE GC'S FIRE SYSTEM  
 INSTALLATION CONTRACTOR. THIS SHEET  
 CONTAINS HALTON'S RECOMMENDED  
 PIPING DETAILS



1 ITEM # 122  
 PLAN VIEW



2 ITEM # 122  
 ELEVATION VIEW

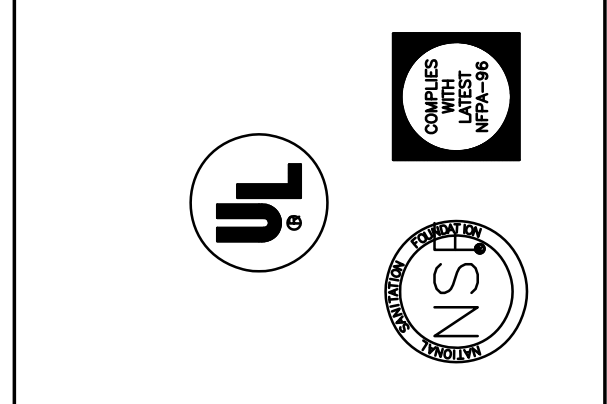


3 ITEM # 122  
 SECTION VIEW

- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8\"/>

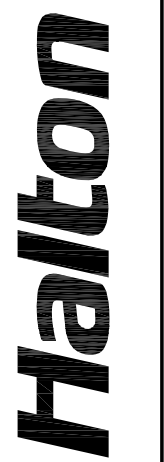
**NOTE**  
 HOODS TO BE FURNISHED  
 BY USING AGENCY AND  
 BE INSTALLED BY GC.

THIS DRAWING MUST BE RECHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:  
 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
 NOTE: TO AVOID PROBLEMS WITH EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW, HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVISE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED HOOD	WU	01.30.14
2	NO CHANGE	WU	04.09.14
3	NO CHANGE	WU	04.21.14
4	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.04.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-719
REV. NO.:	4
SHEET NO.:	22 of 29



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**KJW** K.J.W. ENGINEERING  
 1100 WARRENVILLE ROAD, #400W  
 NAPERVILLE, IL 60563  
 T: 630.527.2320

**E.F.W.** E.F. WHITNEY, INC.  
 568 ANN STREET  
 BIRMINGHAM, MI 48009  
 T: 248.644.0990

<b>PRODUCTION KITCHEN 2</b>		PROJECT NO.	CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		DATE	DEC. 12, 2014
<b>HALTON - PLANS and DETAILS #123 - FIRE SYSTEM</b>		SHEET NO.	FSE-70
<b>CITY CENTER CAMPUS</b>			
<b>JOLIET JUNIOR COLLEGE</b>			
		OF SHEETS	29

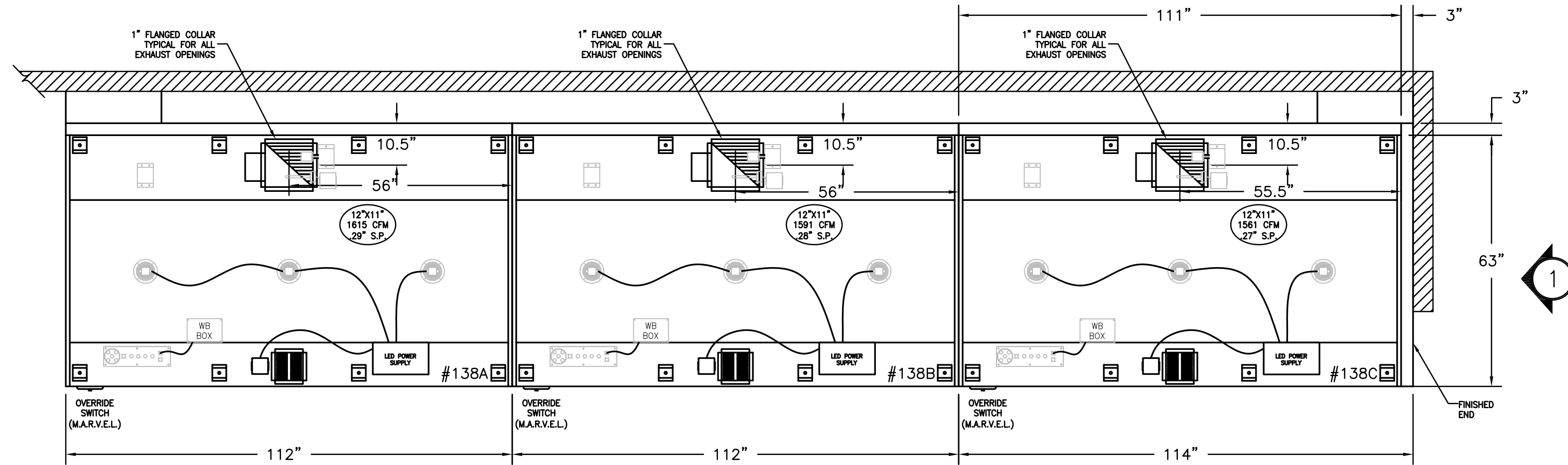


# PRODUCTION KITCHEN 2

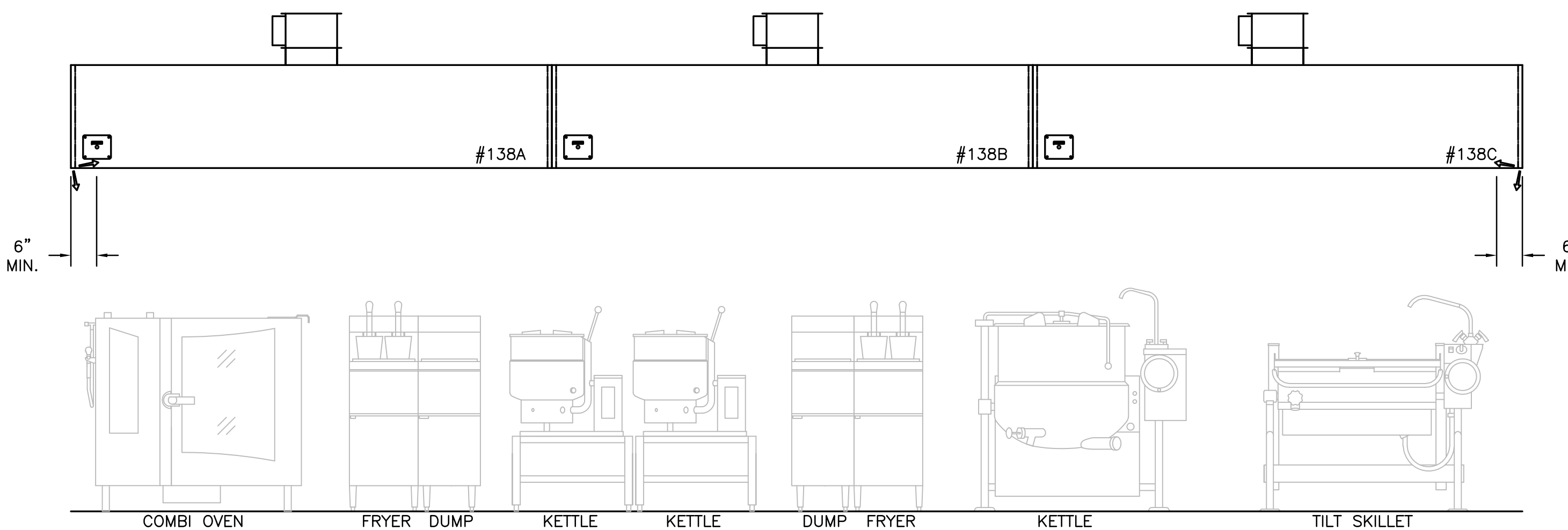
**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS				GREASE EXTRACTOR			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)		
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR QTY.	EXHAUST COLLAR LENGTH	EXHAUST COLLAR WIDTH	QTY.			SIZE L H	TYPE
138A	KVE	1615	.17"	.29"	1	12"	11"	5	20" 13"	KSA	ALL 18GA. 304 S.S.	840
138B	KVE	1591	.16"	.28"	1	12"	11"	5	20" 13"	KSA	ALL 18GA. 304 S.S.	840
138C	KVE	1561	.16"	.27"	1	12"	11"	5	20" 13"	KSA	ALL 18GA. 304 S.S.	855

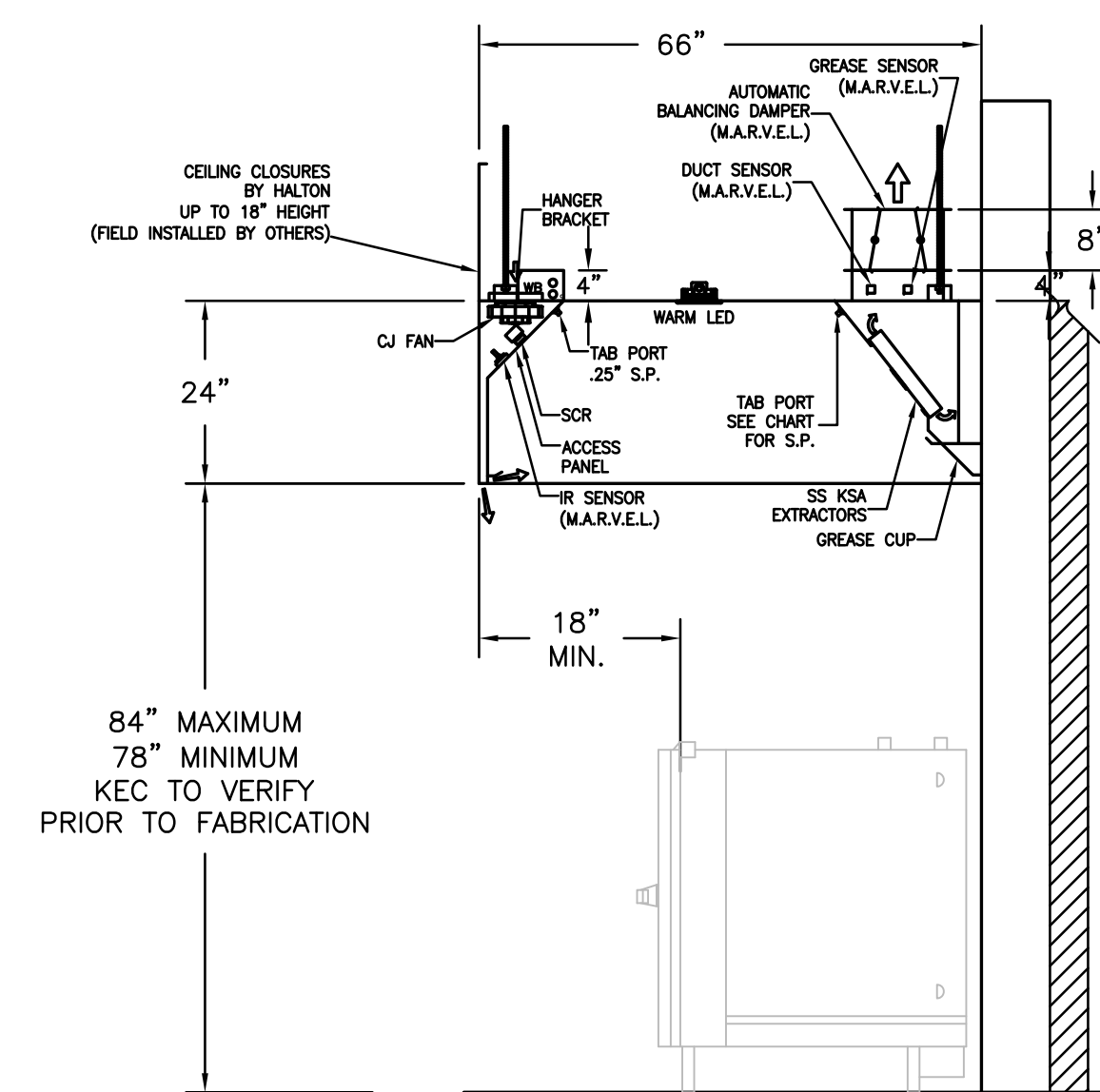
TOTAL EXH. CFM = 4767



1 ITEM # 138  
PLAN VIEW



2 ITEM # 138  
ELEVATION VIEW



3 ITEM # 138  
SECTION VIEW

### GENERAL SPECIFICATIONS

- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAZEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

### INSTALLATION REQUIREMENTS

#### KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS

- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTIONS.
- DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
- FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
- THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
- IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

#### ELECTRICAL CONTRACTOR'S REQUIREMENTS

- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

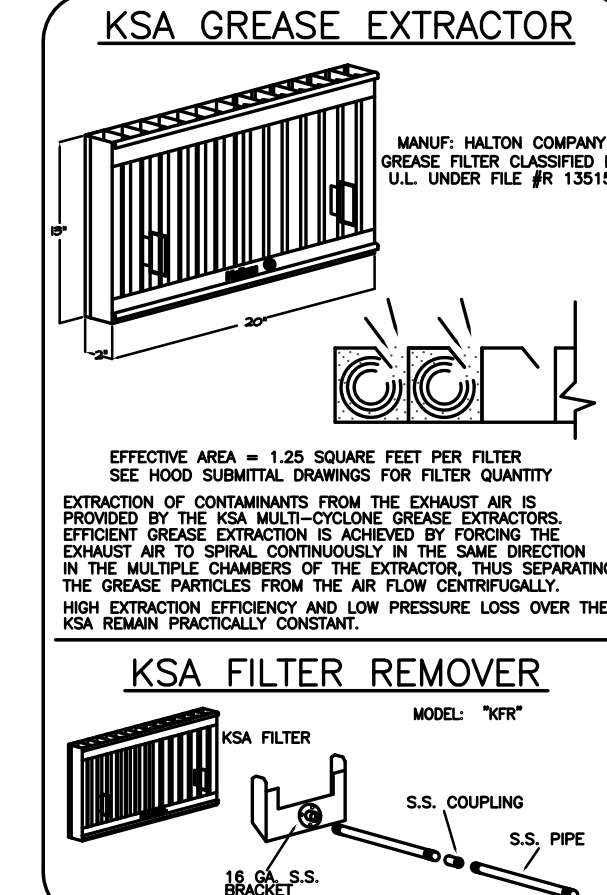
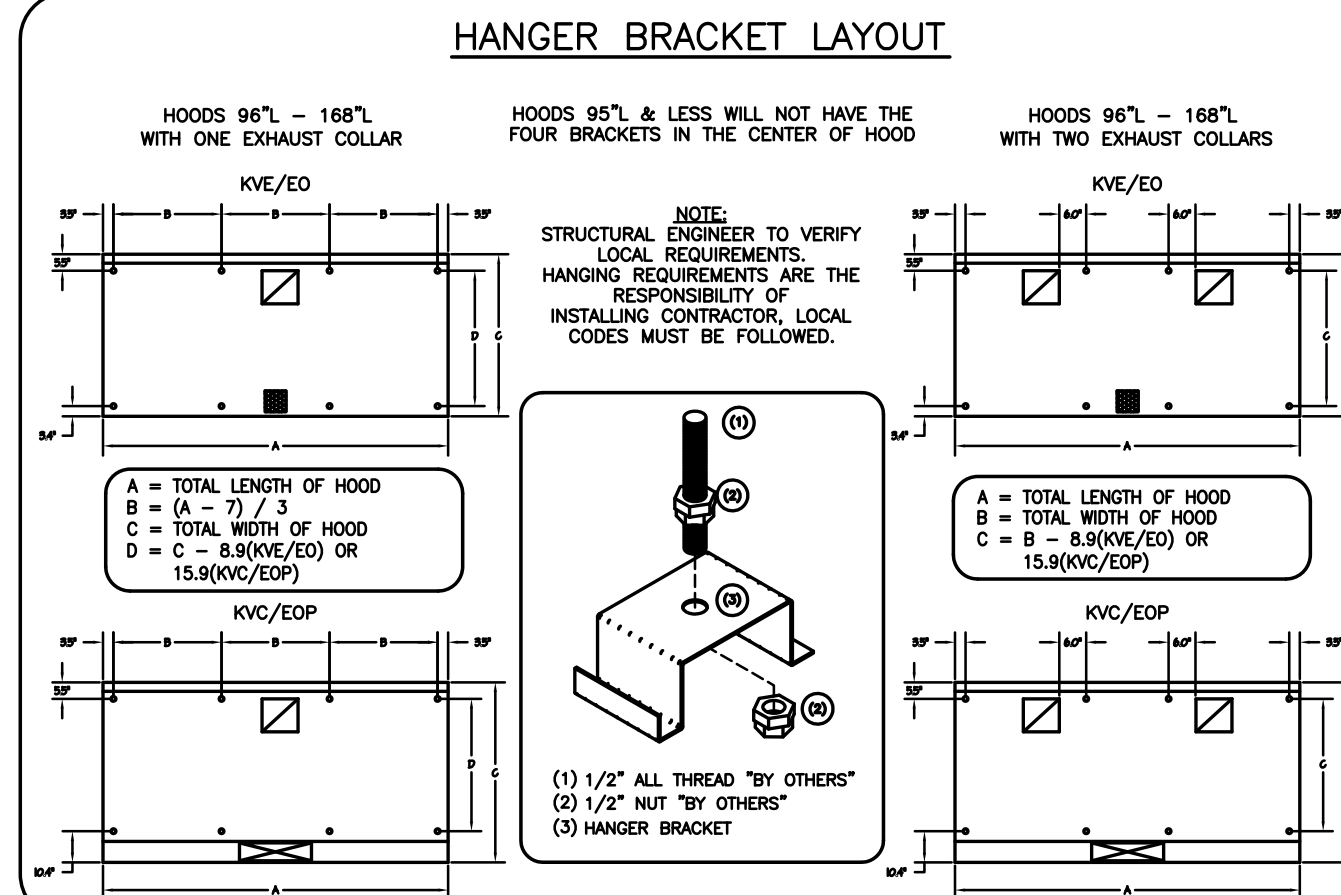
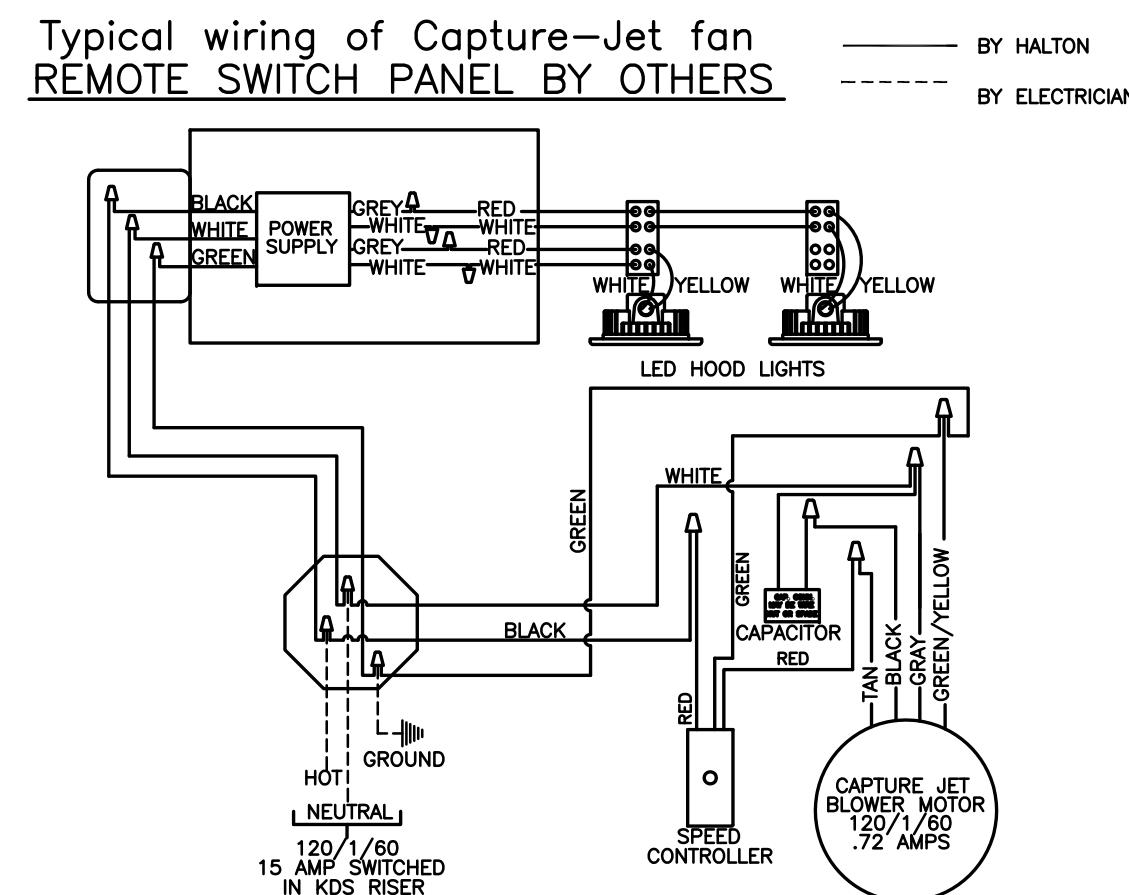
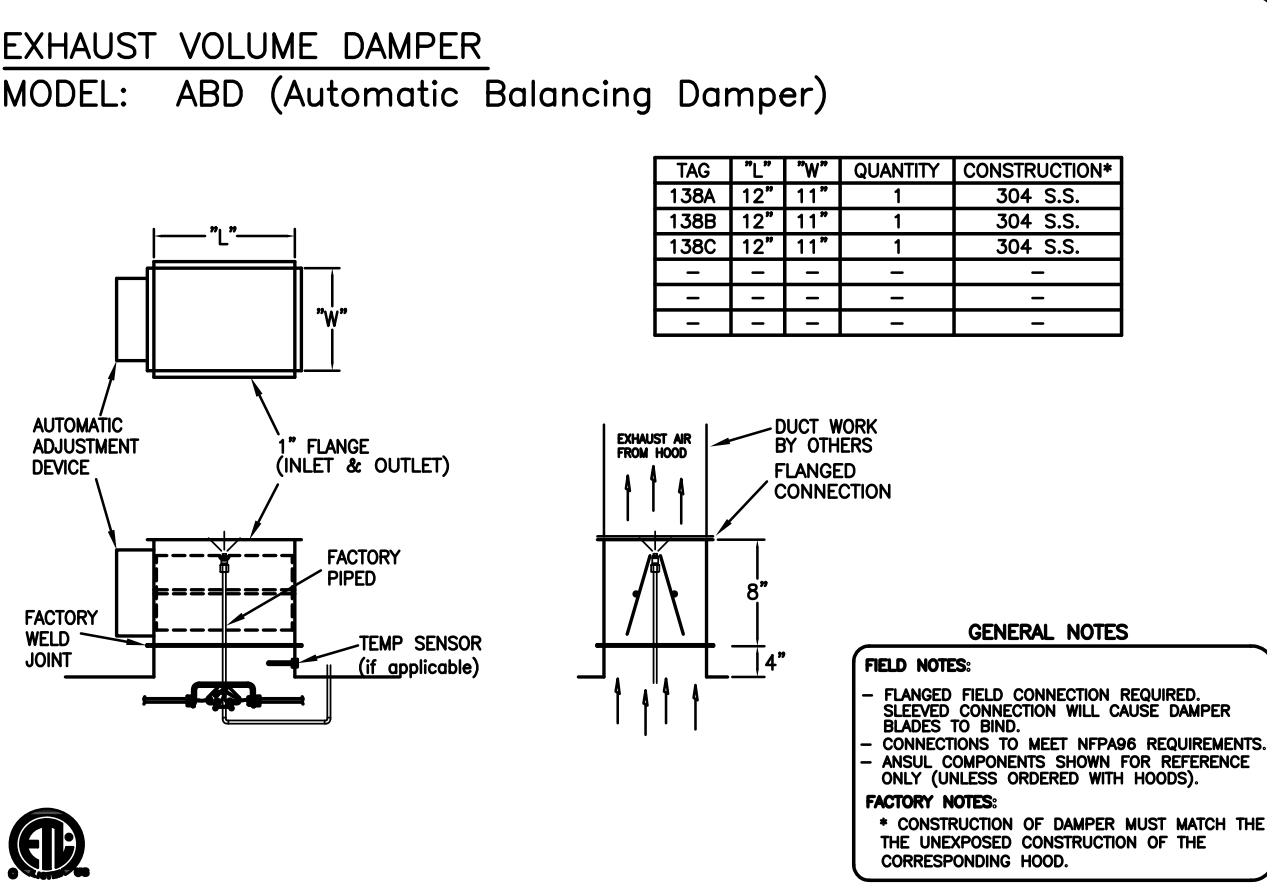
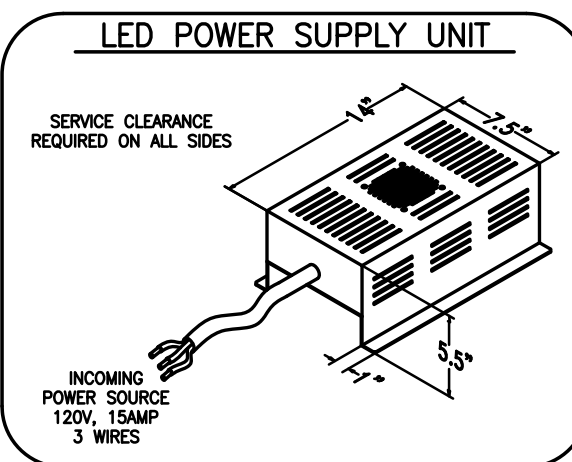
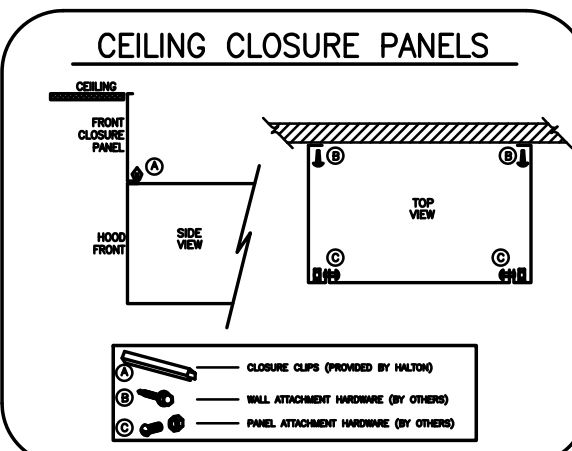
### ELECTRICAL EQUIPMENT REQUIREMENTS

- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .67 AMP EA.
- RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
- GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
- LED LIGHT FIXTURES= .30 AMP EA.
- CAPTURE JET FAN= .72 AMP EA.
- \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\* ARE TO BE PROVIDED BY OTHERS\*\*

### CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:



### PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

## PRODUCTION KITCHEN 2 ISSUED FOR CONSTRUCTION

HALTON - PLANS and DETAILS #138

CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE

PROJECT NO.  
CDB 810-048-023

DATE  
DEC. 12, 2014

SHEET NO.  
FSE-71

OF SHEETS  
23 of 29

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

REVISIONS  
DRAWN: XXX  
PREPARED: XXX  
CHECKED: XXX  
APPROVED: EFW

dkA DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

KJW KJWW ENGINEERING  
1100 WARRENVILLE ROAD,  
#400W NAPERVILLE, IL  
60563  
T: 630.527.2320

EFW E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, KY 42164  
1-270-237-5600

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-674-0301

REVISION DESCRIPTION

REV.	DATE	BY
1	01.30.14	WU
2	04.09.14	WU
3	04.21.14	WU
4	06.03.14	WU
5		
6		
7		

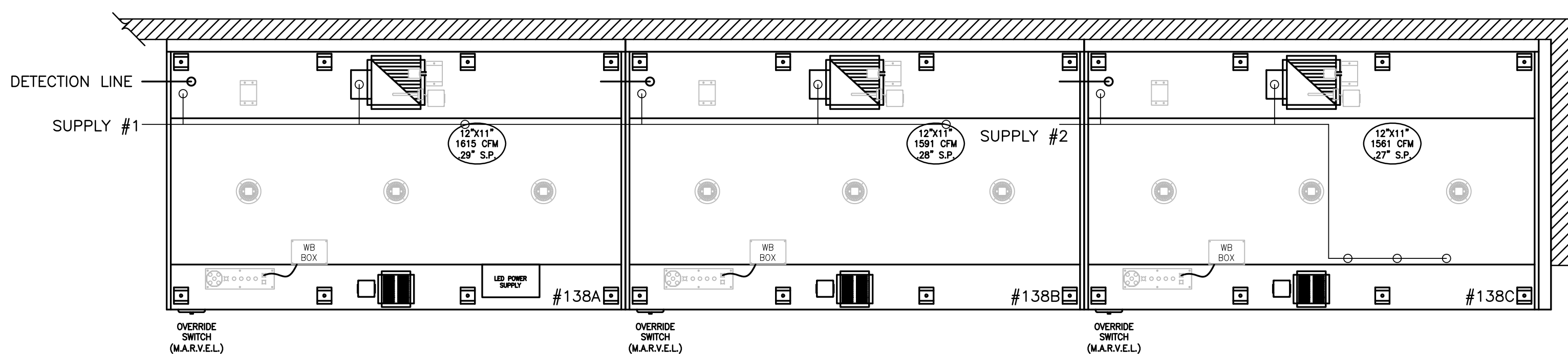
PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU  
SCALE: NOT TO SCALE  
DATE: 12.04.12  
CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING NO.: U12-719  
REV. NO.: 4  
SHEET NO.: 23 of 29

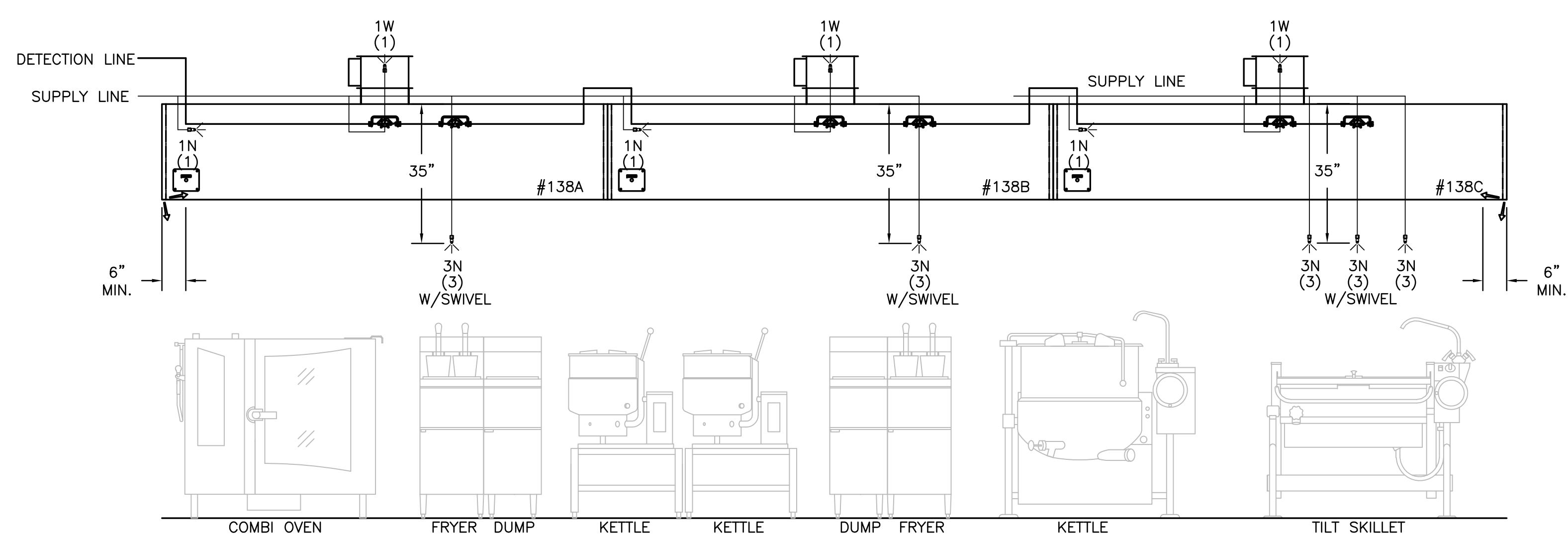
# PRODUCTION KITCHEN 2

## RECOMMENDED PIPING

FIRE SYSTEM TO BE FURNISHED AND INSTALLED IN THE FIELD BY THE GC'S FIRE SYSTEM INSTALLATION CONTRACTOR. THIS SHEET CONTAINS HALTONS RECOMMENDED PIPING DETAILS

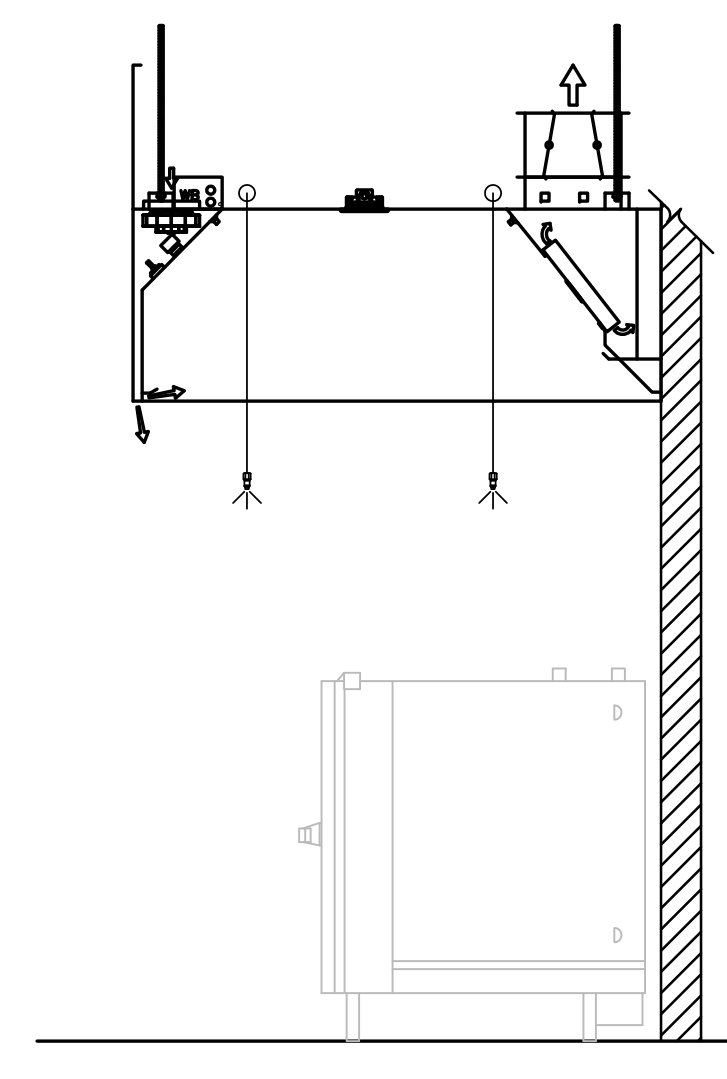


1 ITEM # 138  
PLAN VIEW



2 ITEM # 138  
ELEVATION VIEW

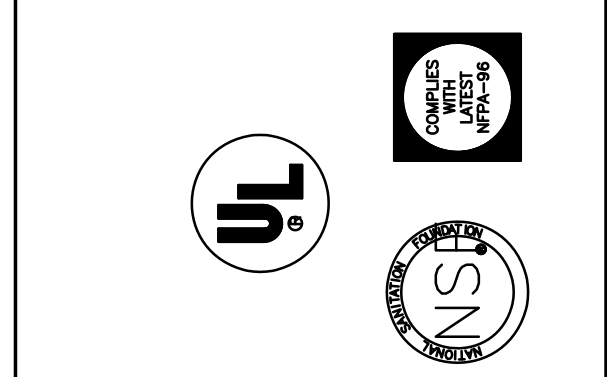
- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS



3 ITEM # 138  
SECTION VIEW

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

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1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
**NOTE TO APPROVER:** COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVERSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED HOODS	WU	01.30.14
2	NO CHANGE	WU	04.09.14
3	REMOVED MIA	WU	04.21.14
4	NO CHANGE	WU	06.03.14
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.04.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-719
REV. NO.:	4
SHEET NO.:	24 of 29

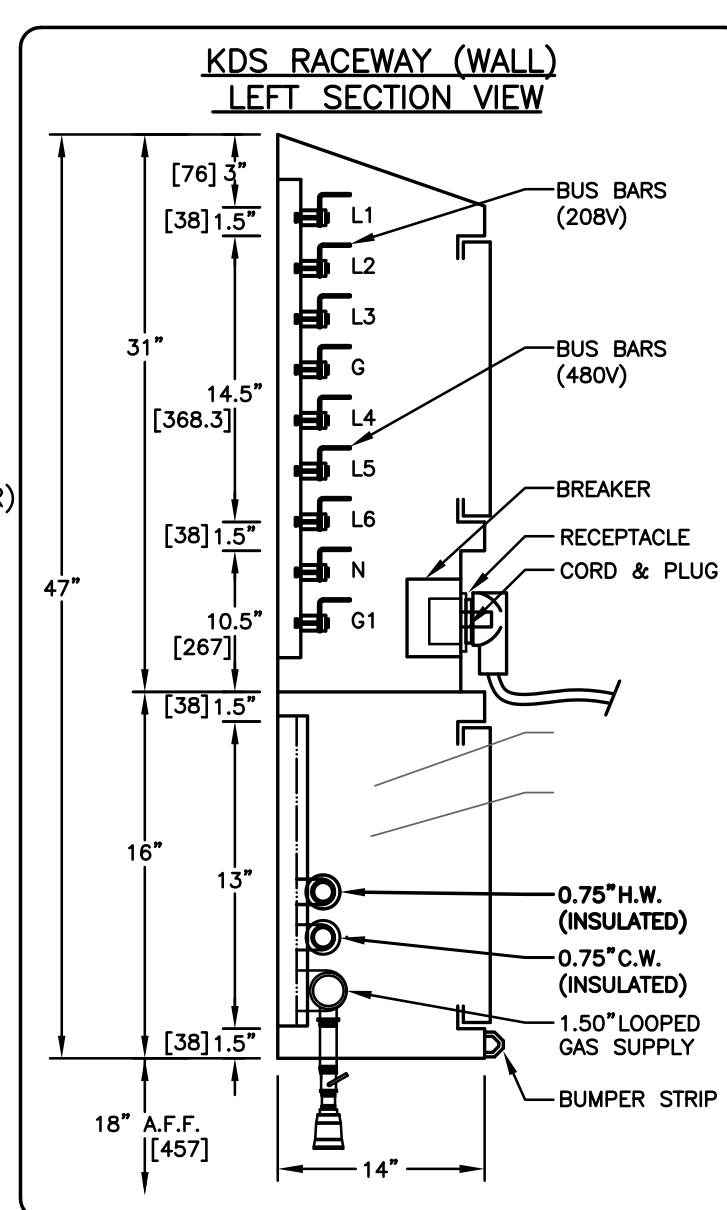
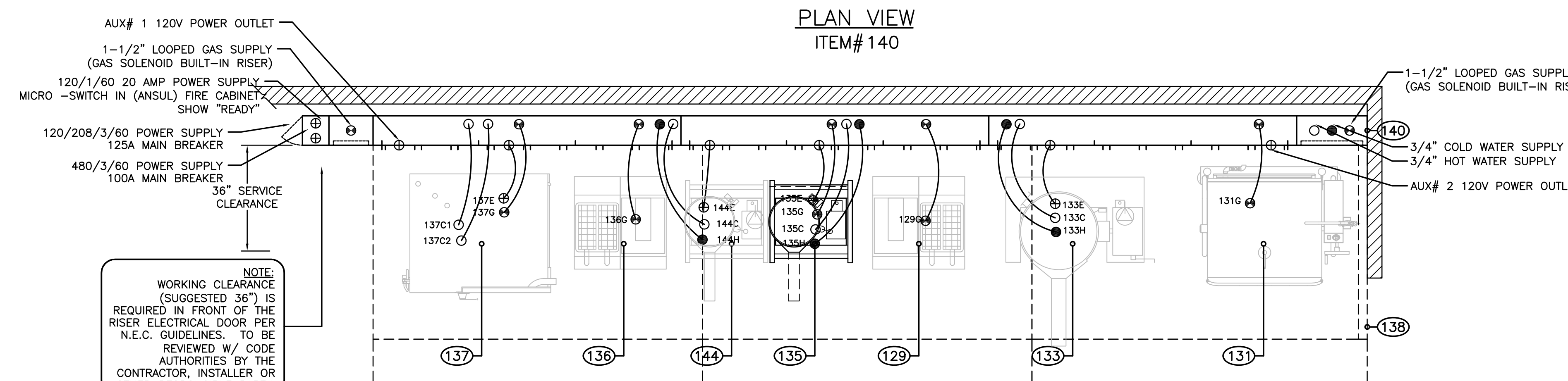
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>PRODUCTION KITCHEN 2</b> <b>ISSUED FOR CONSTRUCTION</b> <b>HALTON - PLANS and DETAILS #139 - FIRE SYSTEM</b>		PROJECT NO. CDB 810-048-023
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>		DATE DEC. 12, 2014
<b>FSE-72</b> OF SHEETS		SHEET NO. 24 of 29





**GENERAL NOTES FOR UTILITY DISTRIBUTION SYSTEM**

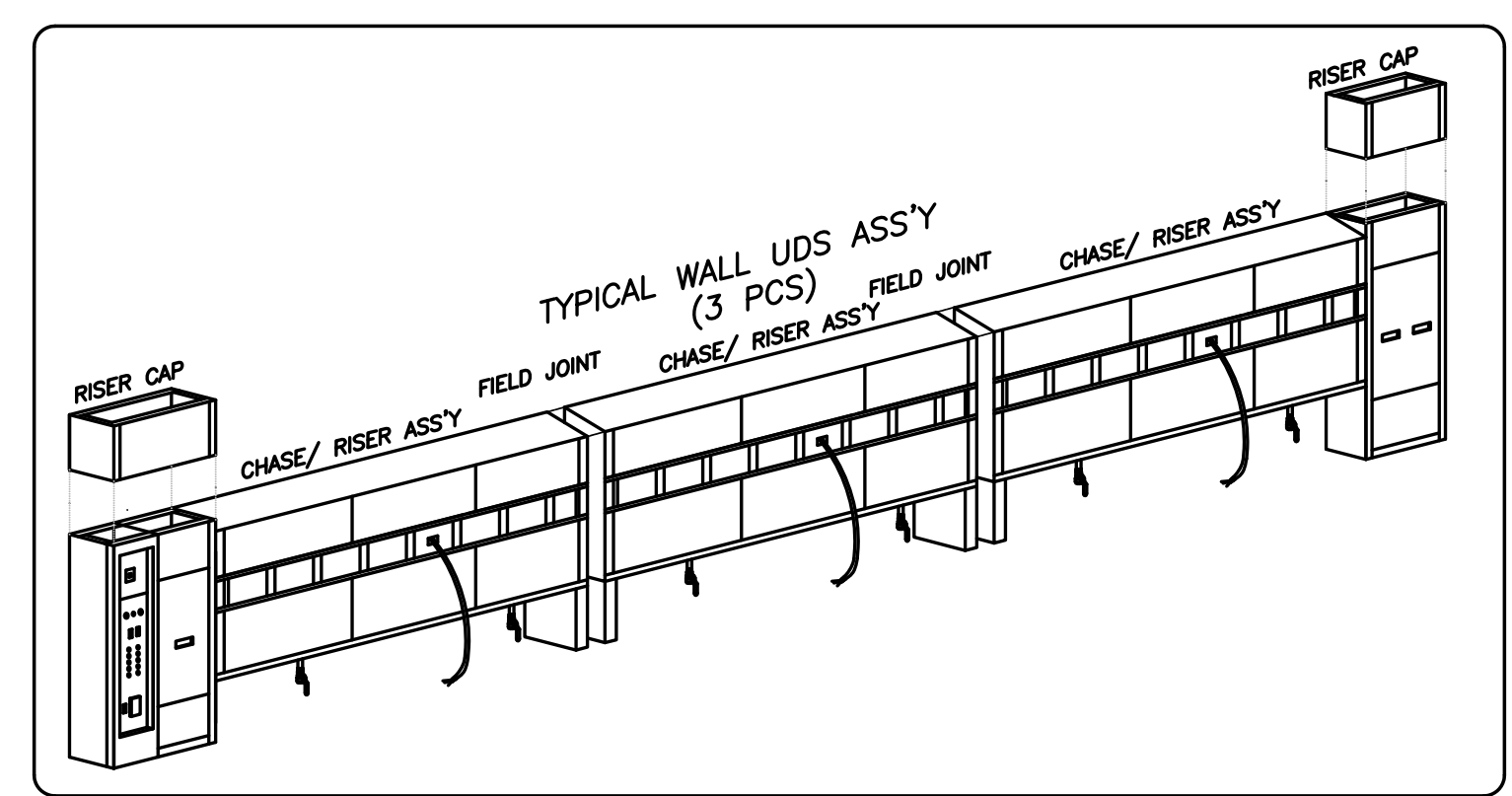
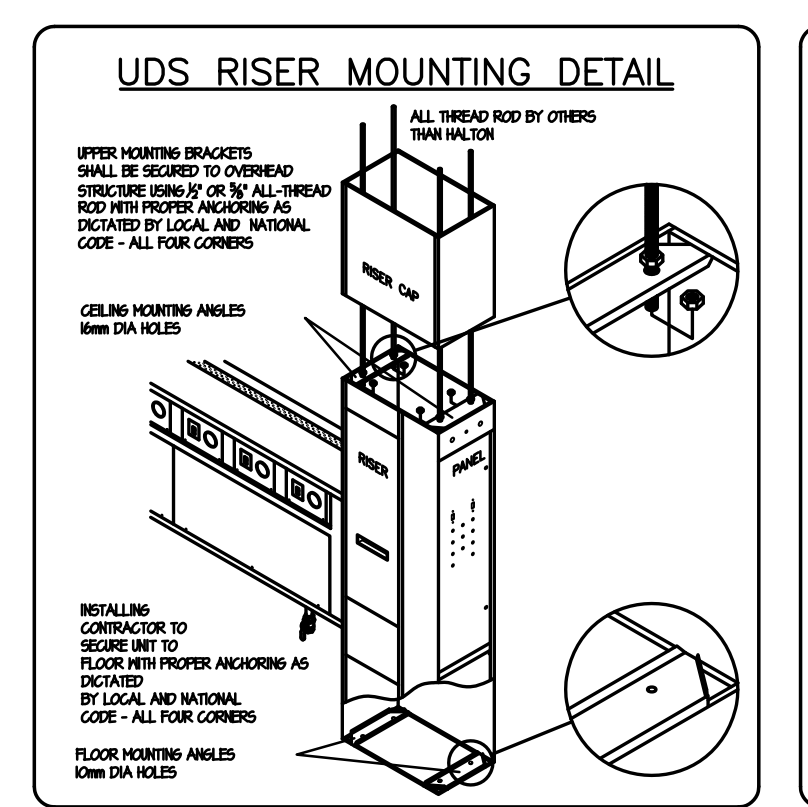
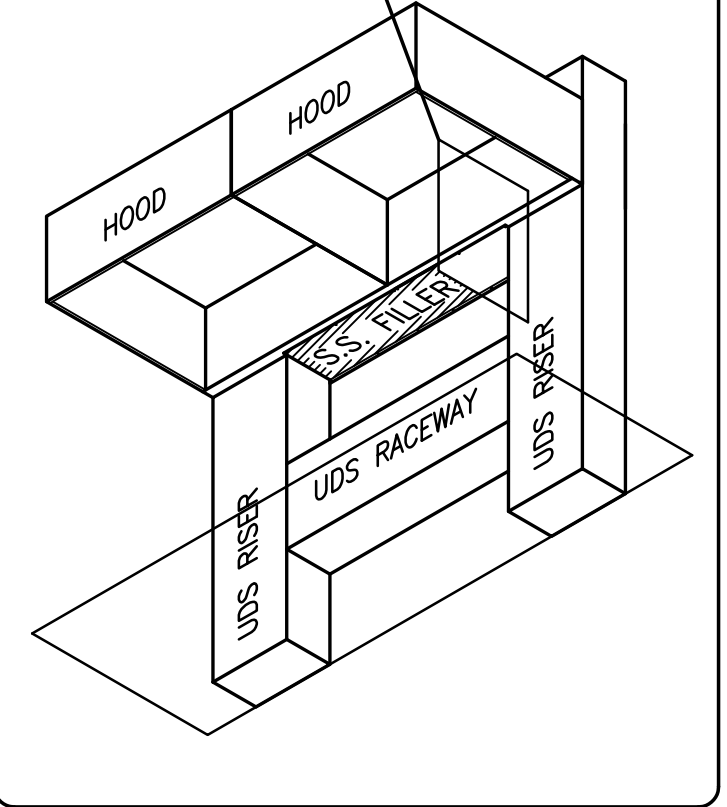
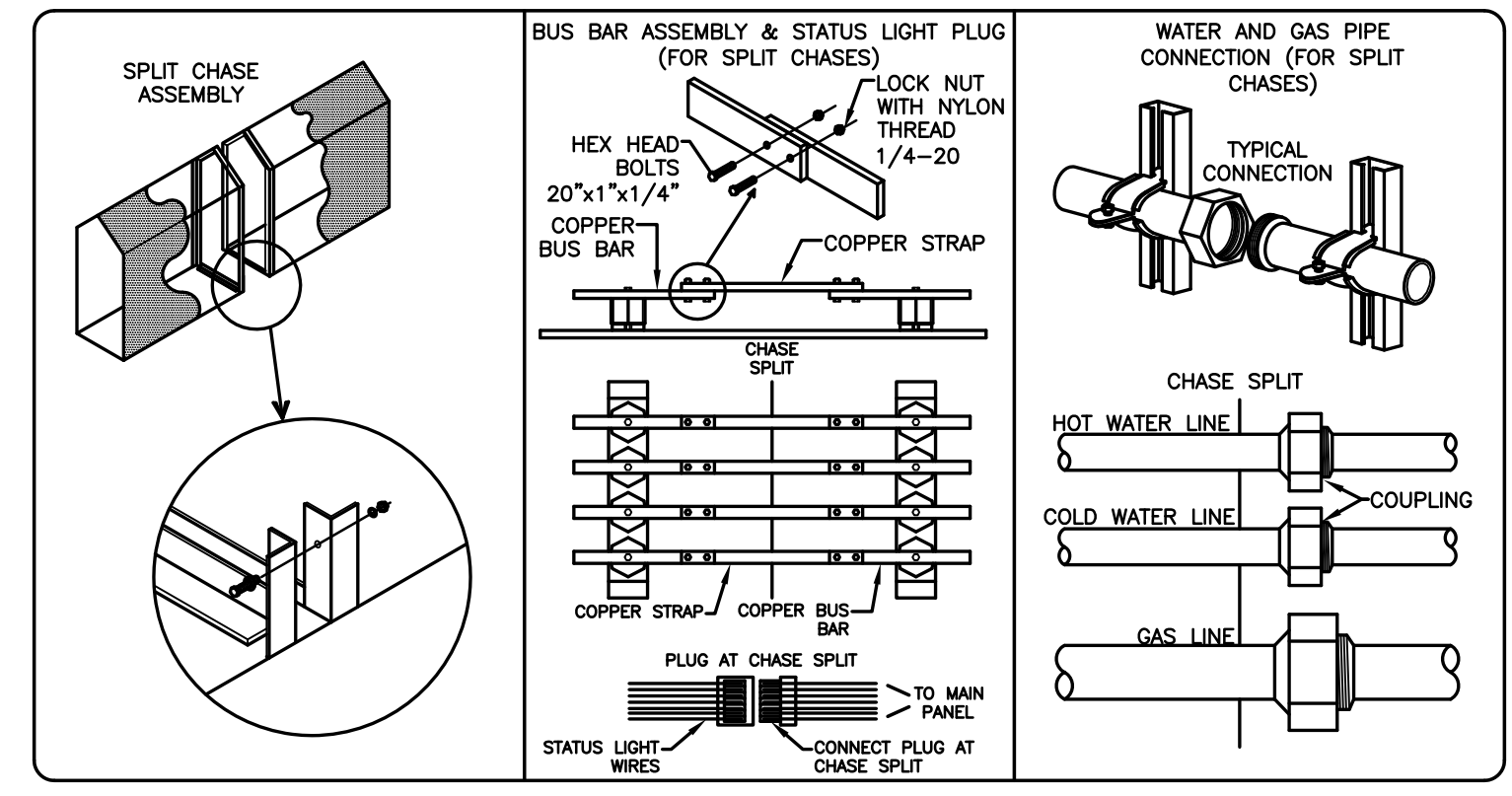
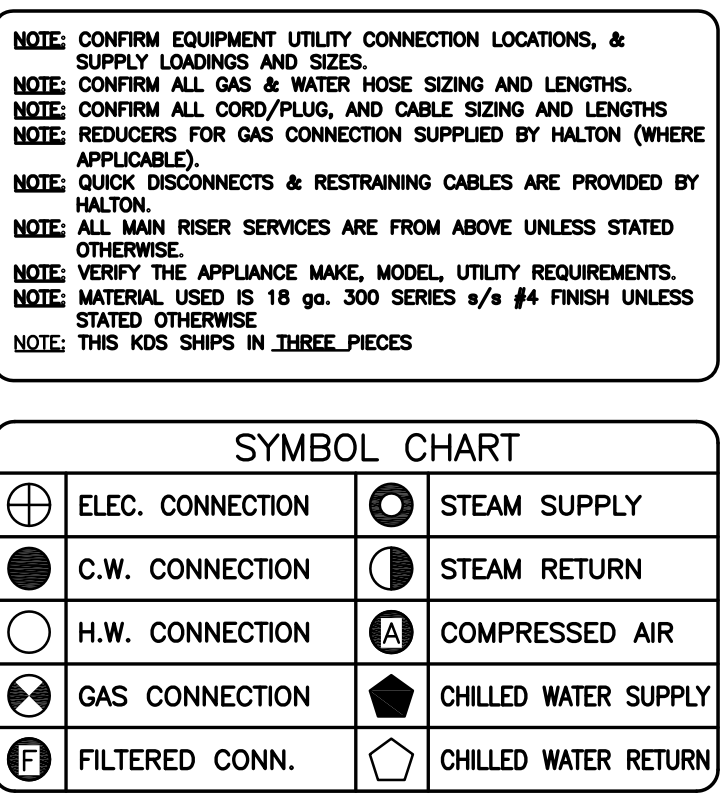
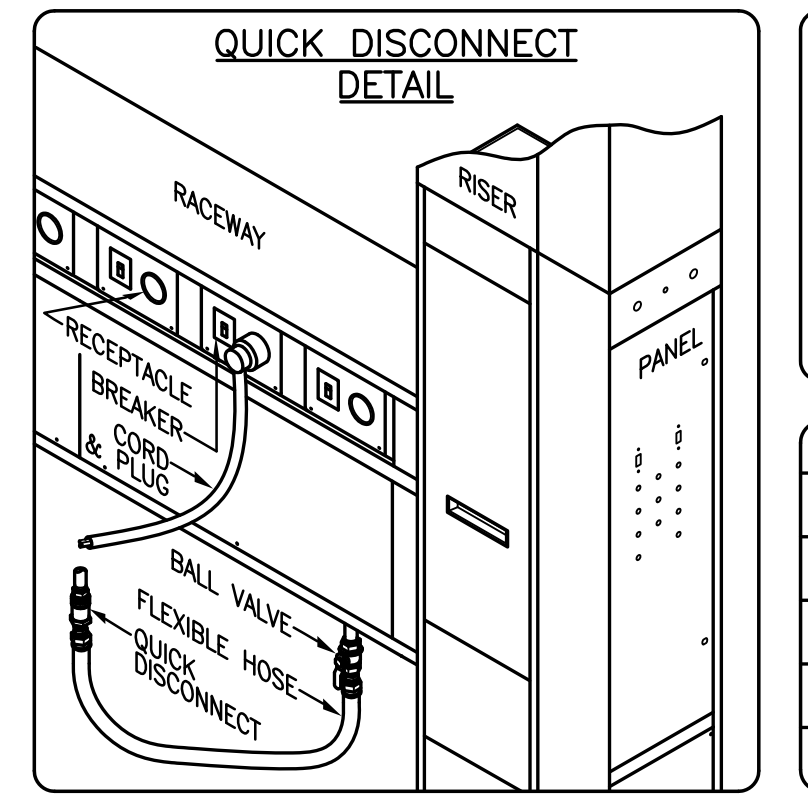
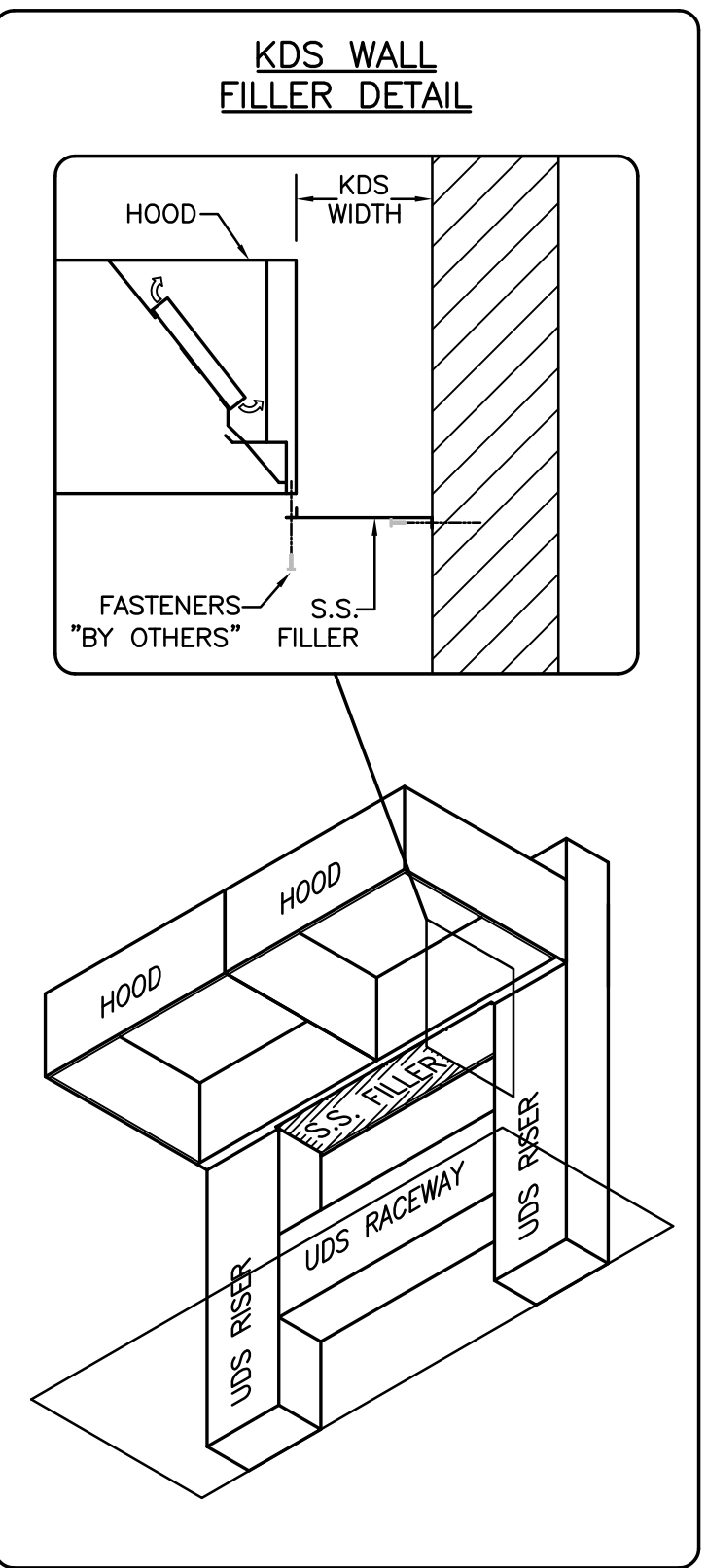
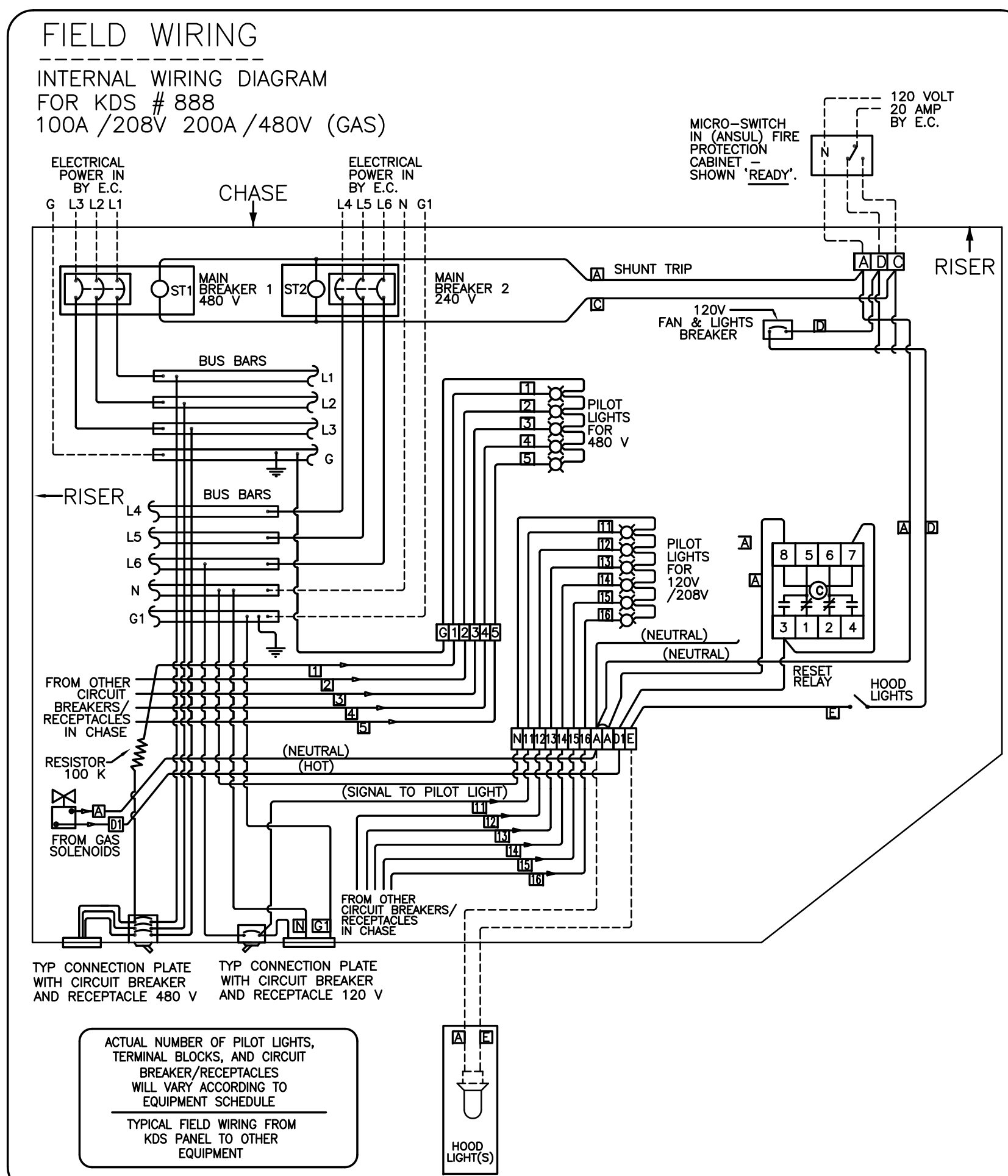
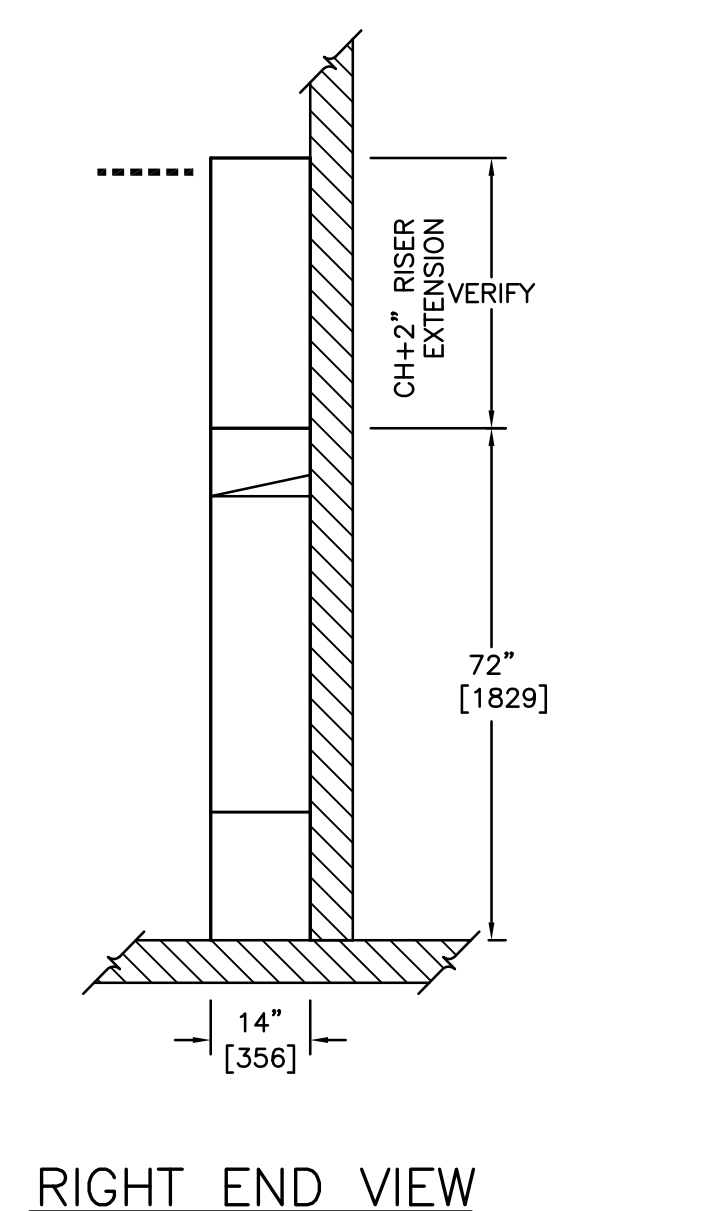
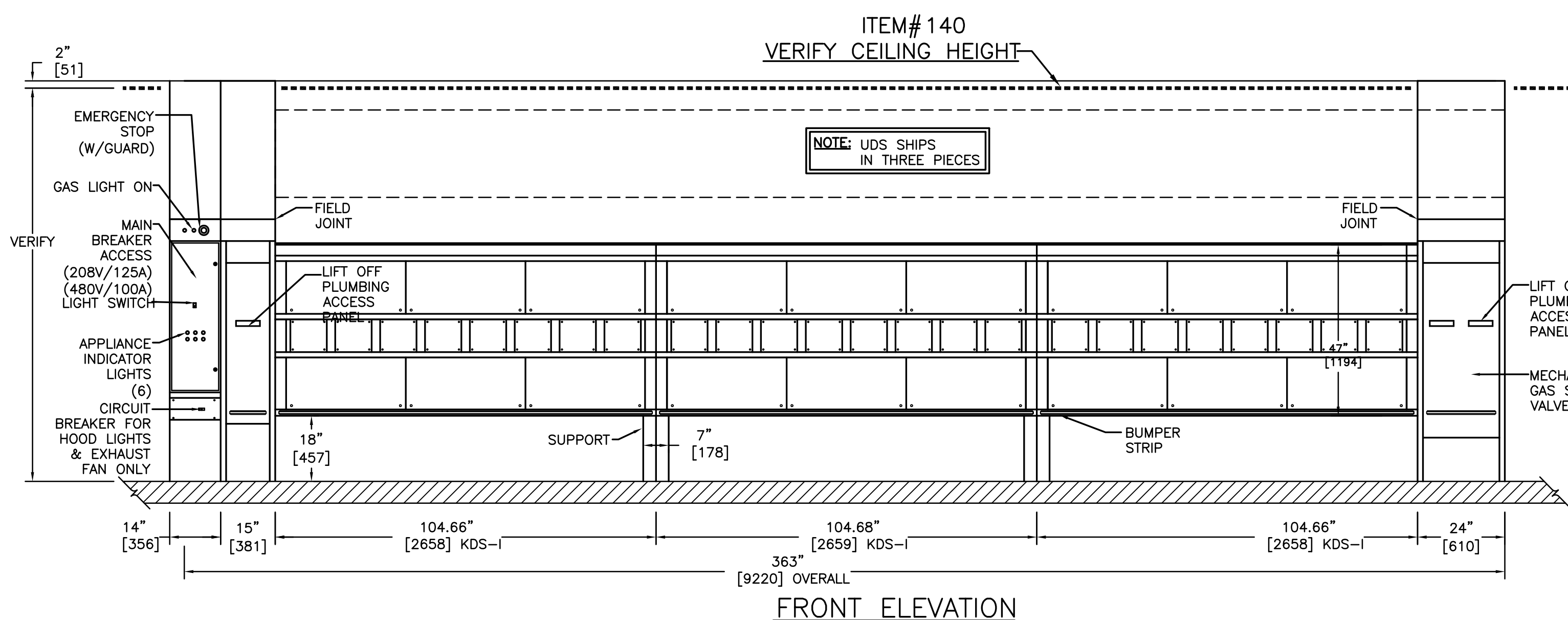
**FOOD SERVICE EQUIPMENT CONTRACT REQUIREMENTS**

- VERIFY MAKE, MODEL, UTILITY REQUIREMENTS AND LOCATION OF ALL EQUIPMENT TO BE SERVICED BY UTILITY SYSTEM.
- VERIFY ACCESSIBILITY INTO BUILDING/KITCHEN AREA.
- DISTRIBUTION OF SUBMITTAL DRAWINGS, INSTALLATION MANUALS, OPERATION MANUALS, ETC. TO RESPECTIVE TRADES AND VENDORS.
- DELIVERY AND INSTALLATION OF UNITS PER DRAWINGS.
- VERIFY COMPLIANCE WITH ALL LOCAL CODES & AGENCIES.
- ELECTRICAL SERVICE EQUIPMENT CONTRACT REQUIREMENTS
- INSTALL 2 WIRE CIRCUIT AND MATERIALS REQUIRED TO TERMINAL BLOCKS FOR VENTILATOR CONTROLS AND FIRE PROTECTION CIRCUIT.
- INTERCONNECT LIGHT SWITCHES LOCATED IN UTILITY RISER TO VENTILATOR HOOD LIGHTS. LOCATION OF FIXTURES, ETC. SHOWN ON VENTILATOR HOOD DRAWINGS.
- INSPECT FOR LOOSE CONNECTIONS (CAUSED BY SHIPPING) AND TIGHTEN AS REQUIRED.
- REMOVE AND REPLACE ACCESS PANELS AND ENCLOSURES NECESSARY FOR CONNECTION AND INSTALLATION OF SYSTEM.
- INSTALL ELECTRICAL SERVICE(S) I.O. CONDUIT WIRING AND OVERLOAD PROTECTION DEVICE(S) RATED AT A CONTINUOUS OPERATING LOAD OF:

**PLUMBING CONTRACT REQUIREMENTS**

- PROVIDE GAS SERVICE AND CONNECTIONS OF THE SAME TO CONNECTION POINT AS SHOWN ON HALTON DRAWINGS [130] NPT, GAS [100] MSH @ 7".
- PROVIDE COLD WATER SERVICE AND CONNECTION OF SAME TO CONNECTION POINT AS SHOWN ON HALTON DRAWING [127] NPT, 40 PSIG.
- MAX. 144FT TO [127] NPT, 40 PSIG.
- PROVIDE HOT WATER SERVICE AND CONNECTION OF SAME TO CONNECTION POINT AS SHOWN ON HALTON DRAWING [125] NPT, 40 PSIG.
- INTERCONNECT ALL PIPE CONNECTION UNITS AT FIELD JOINT. ALL UNIONS PROVIDED AND PRE-FITTED AT FACTORY.
- REMOVAL AND REPLACEMENT OF ACCESS PANELS, DOORS, ENCLOSURE TRIM, ETC. NECESSARY FOR PROVIDING FIELD CONNECTIONS FOR SYSTEM.
- TEST ALL FIELD JOINTS FOR LEAKAGE, TIGHTEN AS REQUIRED. TEST ALL FACTORY JOINTS AND FITTINGS FOR LEAKAGE RESULTING FROM SHIPPING AND HANDLING.
- ALL OTHER CONNECTIONS REQUIRED FOR ACCESSORY EQUIPMENT, CONNECTIONS AND INSULATION BY PLUMBING CONTRACTOR.
- COST OF FIELD TESTING AND CERTIFYING BACK FLOW PREVENTERS BY PLUMBING CONTRACTOR.
- ANY TESTING REQUIRED BY THE AHJ ON THE BACKFLOW PREVENTER TO BE PERFORMED BY THE PLUMBER OR OTHER TRADE AFTER INSTALLATION IS COMPLETED AND NOT BY HALTON.

125 AMPS 208/120/3Ø VOLTS  
 100 AMPS 480/208/120/3Ø VOLTS



**ITEM# 1 UTILITY SCHEDULE FOR UDS**

ITEM NO.	EQUIPMENT DESCRIPTION TYPE/ MAKE/ MODEL (REMARKS)	208/120/3Ø/60 ELECTRIC		480/120/3Ø/60 ELECTRIC		GAS		COLD WATER		HOT WATER		FILTERED WATER	
		CONN. NO.	AMP. VOLTS/Ø/TYPE	BREAKER REC. PLUG LBN TYPE (FT)	CONN. NO.	AMP. VOLTS/Ø/TYPE	CONN. NO.	MBH. APRL. DIA. (CON. (FT) (IN) TYPE)	CONN. NO.	DIA. (CON. (FT) (IN) TYPE)	CONN. NO.	DIA. (CON. (FT) (IN) TYPE)	CONN. NO.
129	FRYER/GARLAND/M35SS	129G	110 1-1/4" 1-1/4" BV, QD 5										
131	TILTING SKILLET/ GROEN/ HFP-4 (EXISTING)	131G	120 1/2" 1/2" BV, QD 5										
133	TILTING KETTLE/ GROEN/ DEE-4-40 (EXISTING)	133E	29 480/3 40/3 CR C 5					133C	1/2" QD 5	133H	1/2" QD 5		
135	TABLE TOP KETTLE/ GROEN/ TDH-40	135E	L1 1 120/1 15/1 GFCI B 5					135C	1/2" QD 5	135H	1/2" QD 5		
136	FRYER/GARLAND/M35SS	136G	110 1-1/4" 1-1/4" BV, QD 5										
137	COMBI OVEN/ OGS 10.20	137E	L2 15.9 120/1 20/1 GFCI B 5					137C1	3/4" QD 5	137C2	3/4" QD 5		
144	TABLE TOP KETTLE/ GROEN/ TDB-40	144E	L3 30 208/3 40/3 AR B 5					144C	1/2" QD 5	144H	1/2" QD 5		

LX HOOD LIGHTS/ FAN SWITCH  
 AUX1 CONVENIENCE OUTL#1-DCC  
 AUX2 CONVENIENCE OUTL#2-DCC

MFC SYSTEM CAPACITY  
 57.4 AMPS (25% Safety Incl.)  
 51 AMPS

FUTURE RESERVE  
 525 MBH  
 1100 MBH  
 575 MBH

APPROXIMATE WEIGHT= 2880 lbs/ 1297.3 kg

BREAKER SIZE 125 AMPS  
 208/120/3Ø/60 ELECTRIC

BREAKER SIZE 100 AMPS  
 480/120/3Ø/60 ELECTRIC

1-1/2" NPT @ 7" W.C.  
 LOOPED GAS  
 40 PSIG COLD WATER  
 40 PSIG HOT WATER  
 40 PSIG FILTERED WATER

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN: XXX  
 PREPARED: XXX  
 TRACED: XXX  
 APPROVED: XXX  
 CHECKED: XXX  
 APPROVED: EFW

**dkA DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**K J W W KJWW ENGINEERING**  
 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW E.F. WHITNEY, INC.**  
 568 ANN STREET BIRMINGHAM, MI 48009  
 T: 248.644.0990

**PRODUCTION KITCHEN 2 ISSUED FOR CONSTRUCTION**

**UTILITY DISTRIBUTION SYSTEM (UDS) DETAILS #140**

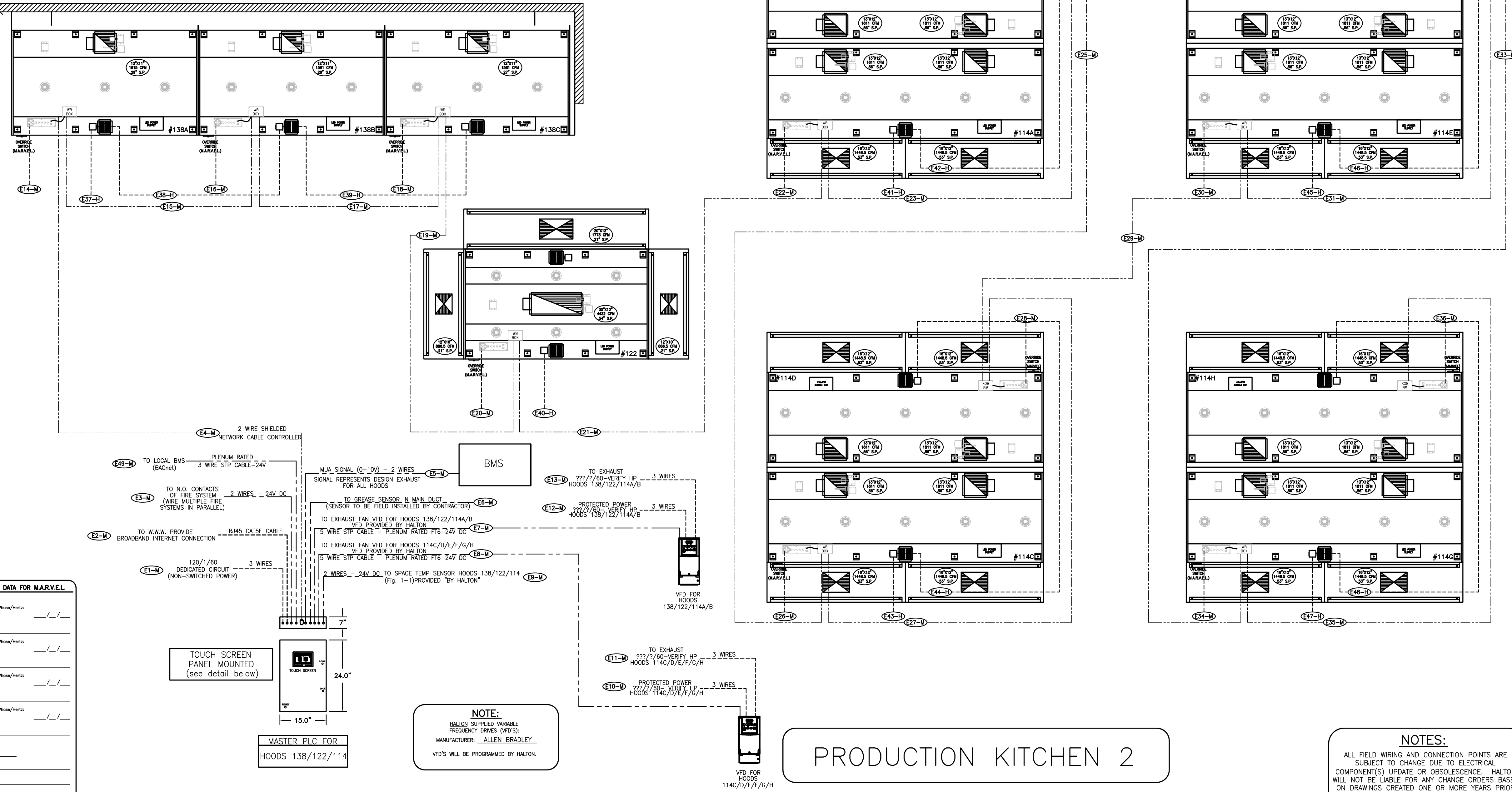
**CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
 DATE DEC. 12, 2014  
 SHEET NO. FSE-73 OF SHEETS

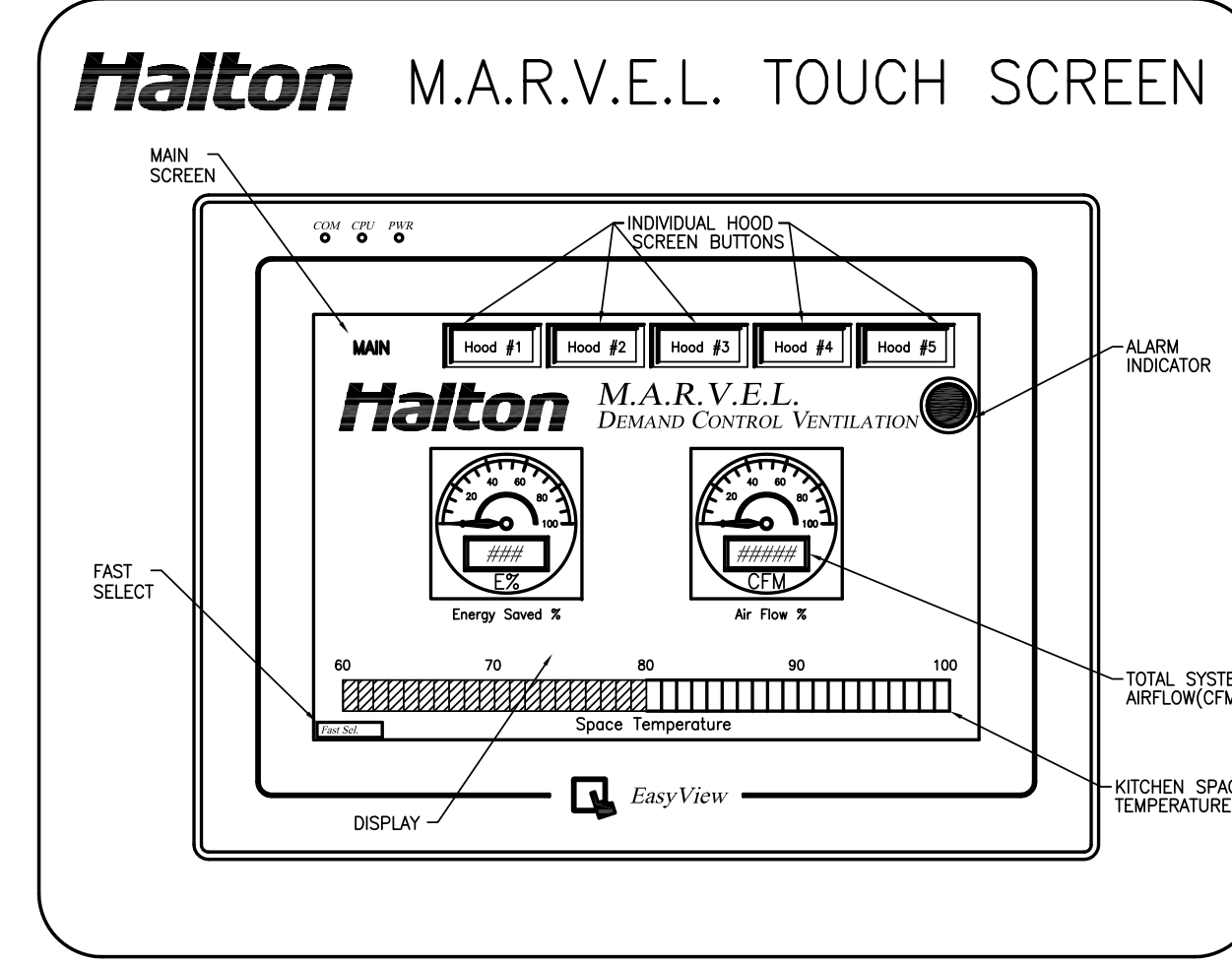
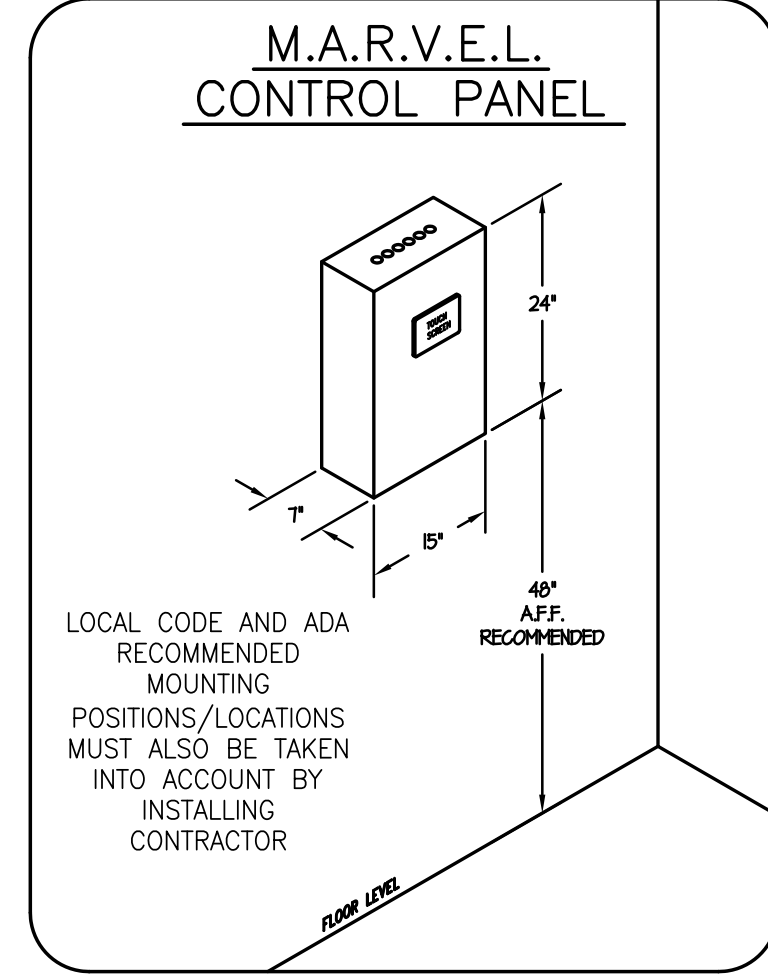
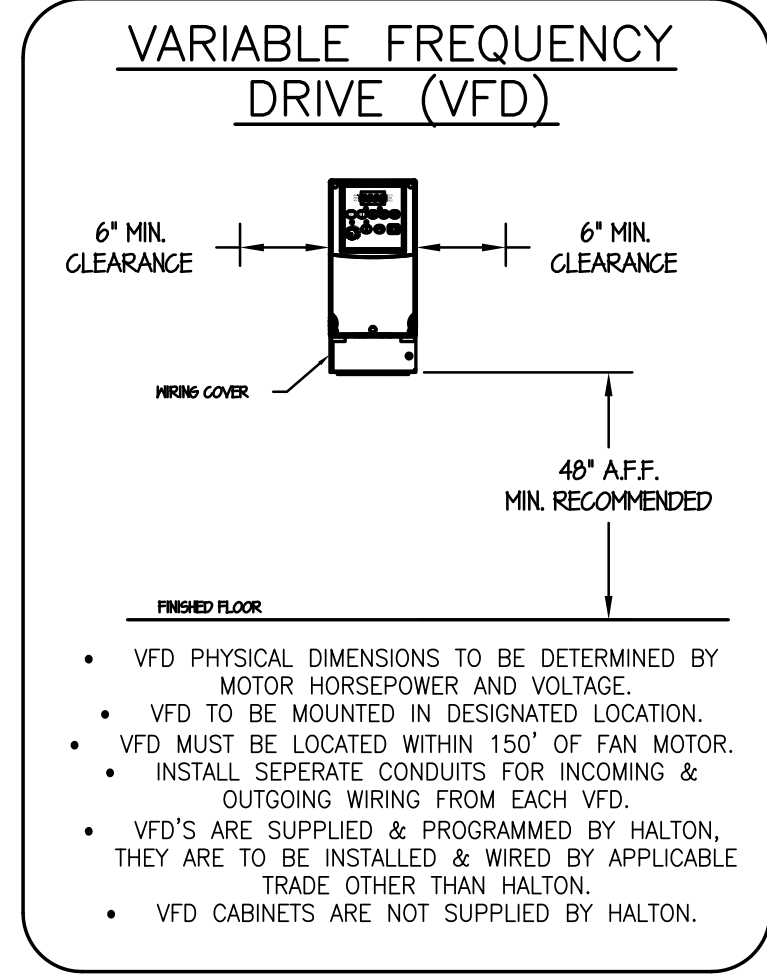
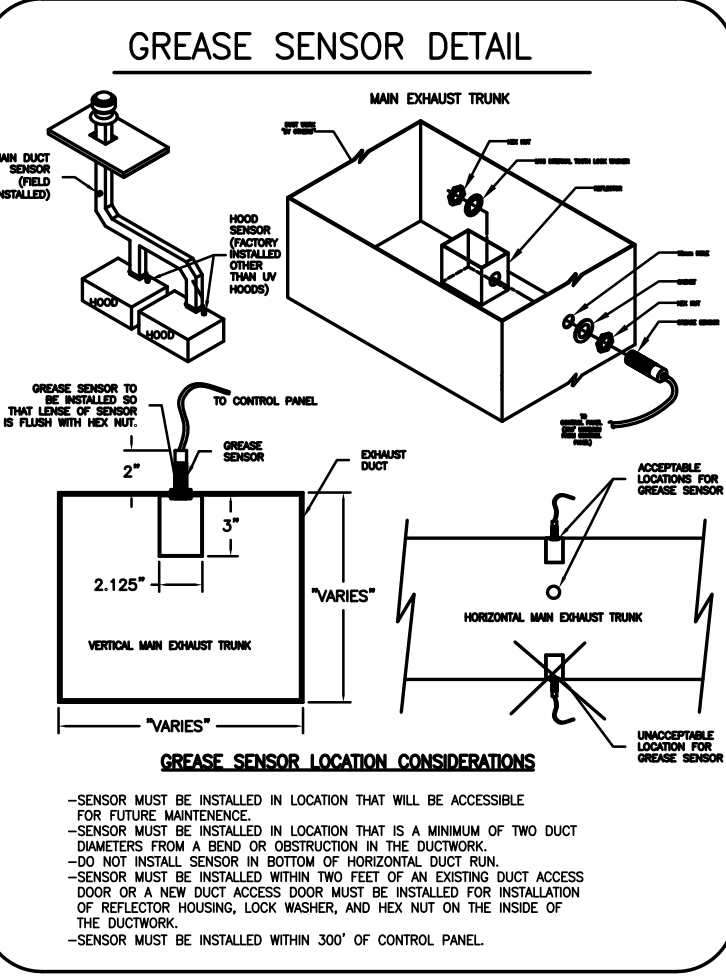


GREASE SENSOR #	LOCATION
1	MAIN DUCT
2	138A
3	138B
4	138C
5	122
6	114A
7	114B
8	114C
9	114D
10	114E
11	114F
12	114G
13	114H

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



GROUP	DESCRIPTION	QUANTITY	UNIT
1	TOUCH SCREEN PANEL MOUNTED (see detail below)	1	EA
2	MASTER PLC FOR HOODS 138/122/114	1	EA



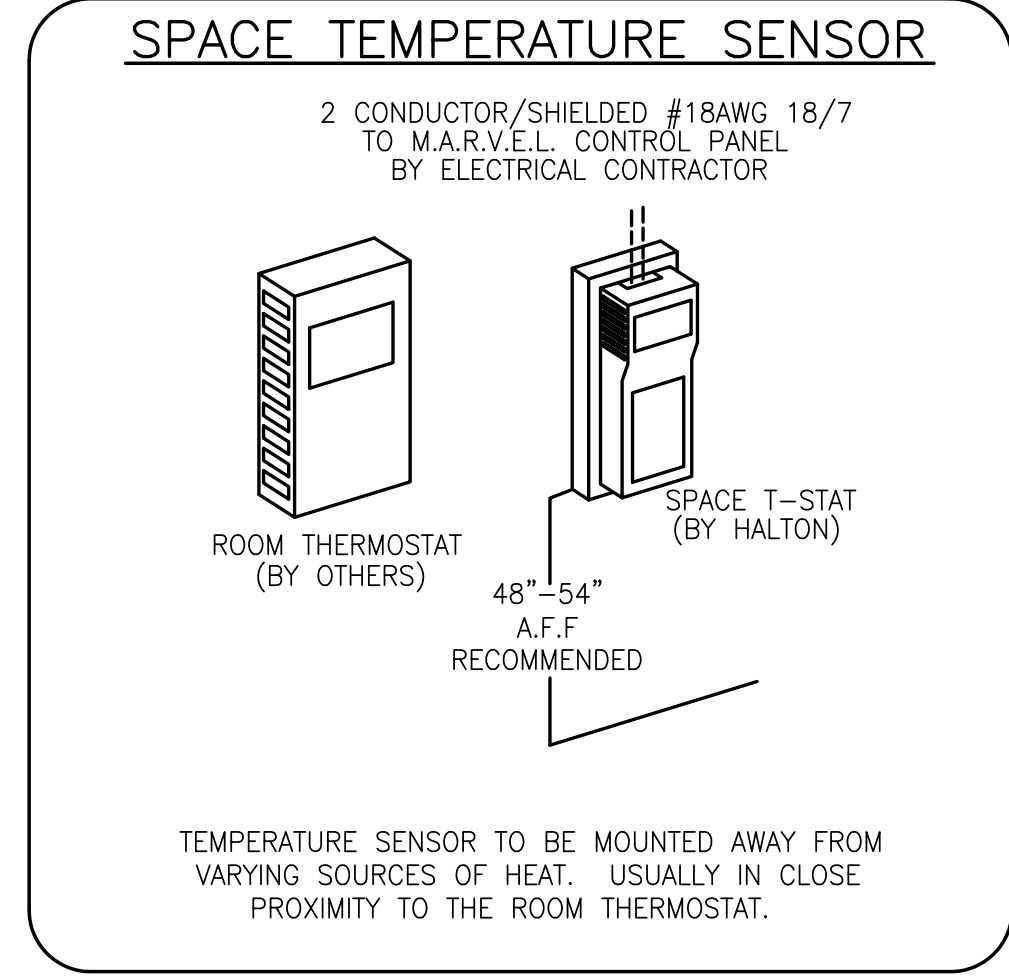
**M.A.R.V.E.L. SYSTEM**

**M.A.R.V.E.L. EQUIPMENT CONNECTED LOADS**

M.A.R.V.E.L. CONTROL PANEL= 10 AMPS EA.  
M.A.R.V.E.L. PLC AT EACH HOOD SECTION= 4 AMPS EA.

**NOTES:**

- FIELD WIRING (BY E.C.) - 120V - 12AWG MIN.-10AWG MAX.
- FIELD WIRING (BY E.C.) - 24V - 22AWG MIN.-16AWG MAX.
- SHIELDED NETWORK CABLES - PROVIDED BY HALTON FIELD INSTALLED BY OTHERS



**M.A.R.V.E.L. SCOPE OF WORK**

RESPONSIBILITY TO BE SELECTED BY GENERAL CONTRACTOR

**DEFINITIONS FOR REFERENCE:**

M.A.R.V.E.L. I SYSTEMS = 1 EXHAUST FAN SERVING 1 KITCHEN HOOD

M.A.R.V.E.L. II SYSTEMS = 1 EXHAUST FAN SERVING MULTIPLE KITCHEN HOODS

VFD = VARIABLE FREQUENCY DRIVES

CONNECTION LOCATIONS WILL VARY PER SYSTEM, REFER TO HALTON M.A.R.V.E.L. DIAGRAMS FOR SPECIFICS

1. APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE M.A.R.V.E.L. CONTROL PANEL. LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN SAME SPACE AS THE KITCHEN HOODS BEING SERVED BY PANEL. (M.A.R.V.E.L. I HOOD SYSTEMS WILL NOT HAVE SUCH PANELS)
2. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT M.A.R.V.E.L. CONTROL PANEL
3. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL R445 CATSE CABLE CONNECTION AT M.A.R.V.E.L. CONTROL PANEL FOR M.A.R.V.E.L. II SYSTEMS OR AT KITCHEN HOOD FOR M.A.R.V.E.L. I SYSTEMS FOR IP ADDRESS.
4. APPLICABLE CONTRACTOR TO INSTALL SPACE TEMP SENSOR (SUPPLIED BY HALTON) IN SAME SPACE AS KITCHEN HOOD SYSTEM AND 48"-54" A.F.F. NEAREST MUA T-STAT.
5. APPLICABLE CONTRACTOR SHALL SUPPLY AND RUN 2 WIRE 24V DC CONNECTION FROM SPACE TEMP SENSOR TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR TO KITCHEN HOOD (M.A.R.V.E.L. I)
6. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE 24V DC WIRING FROM ANALOG FIRE SYSTEM EITHER TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR TO KITCHEN HOOD (M.A.R.V.E.L. I)
7. APPLICABLE CONTRACTOR SHALL CONNECT 2 WIRE COMMUNICATION CABLES (SUPPLIED BY HALTON) FROM HOOD TO HOOD AND TO PANEL AS SHOWN IN HALTON M.A.R.V.E.L. DIAGRAM.
8. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE MUA SIGNAL (0-10V) FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO BMS OR DDC.
9. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 5 WIRE STP PLENUM RATED CABLE FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO EXHAUST FAN VFD(S) (VFD'S AND CABINET SUPPLIED BY HALTON UNLESS OTHERWISE NOTED)
10. APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE VFD(S). LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN 150 FEET MAX DISTANCE FROM EXHAUST FAN(S).
11. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FEED FROM CIRCUIT BREAKER(S) TO VFD(S). APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FROM VFD(S) TO EXHAUST / MUA (IF APPLICABLE) MOTORS. ALL TO BE RAN IN SEPARATE CONDUIT.
12. APPLICABLE CONTRACTOR SHALL INSTALL GREASE SENSOR(S) IN MAIN EXHAUST TRUNK AND WIRE THE SENSOR BACK TO THE DESIGNATED LOCATION.
13. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT EACH KITCHEN HOOD. (IF HOODS ARE IN A SECOND 150V DEDICATED CIRCUIT IS REQUIRED.)
14. INSTALLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING ADEQUATE ACCESS TO ALL COMPONENTS LOCATED ABOVE HOOD.
15. HALTON REPRESENTATIVE TO PERFORM FINAL FIELD COMMISSIONING ONCE ALL RESPONSIBILITIES ARE COMPLETED ABOVE.

**NOTES:**

ALL WIRING AND CABLEING TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS STATED OTHERWISE

**NOTES:**

ALL FAN MOTORS MUST BE COMPATIBLE WITH VARIABLE FREQUENCY DRIVES (VFD'S). MOTORS THAT ARE 1 HP AND ABOVE MUST BE CONNECTED TO THREE PHASE POWER.

**NOTES:**

ALL VARIABLE FREQUENCY DRIVES (VFD'S) MUST BE INSTALLED WITHIN 150' OF THE EXHAUST FAN.

REVISION	DATE	DESCRIPTION
1	01.28.14	INCLUDED MARVEL SHEETS
2	04.09.14	REVISED WIRING, ADDED CABINET
3	04.21.14	REMOVED MUA ON 138
4	06.03.14	REMOVED LIGHT SWITCHES ON ALL HOODS
5		
6		
7		

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, AZ 85264  
1-800-524-0301

HALTON CO. (CANADA)  
1021 BREVIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-800-524-0301

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: E.F. WHITNEY  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING NO.: U12-719  
REV. NO.: 4 SHEET NO.: 28 of 29

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJWW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**PRODUCTION KITCHEN 2**  
**ISSUED FOR CONSTRUCTION**  
**M.A.R.V.E.L. SYSTEM DETAILS #114**

PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. FSE-74 OF SHEETS

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

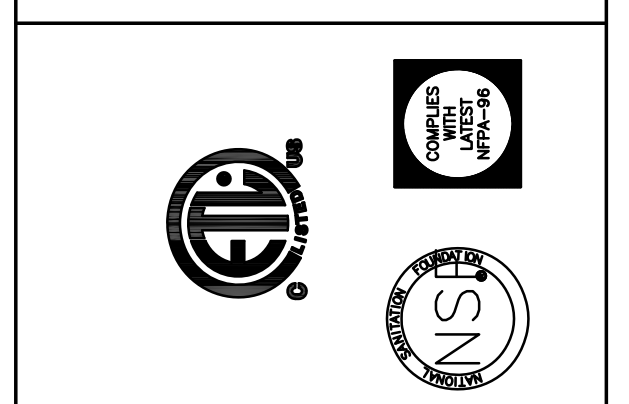
ELECTRICAL & DATA CABLE CONNECTION SCHEDULE

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO	CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-M	120V, 15AMP - CONTROL PANEL POWER - 3 WIRES	BUILDING SOURCE	CONTROL PANEL	E26-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #114C
E2-M	BROADBAND INTERNET CONNECTION	BUILDING SOURCE	CONTROL PANEL	E27-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #114C	HOOD #114D
E3-M	FIRE MODE SIGNAL - TO FIRE SUPPRESSION PANEL - 2 WIRES	CONTROL PANEL	FIRE SYSTEM	E28-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #114D
E4-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	CONTROL PANEL	HOOD #138A	E29-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #114D	HOOD #114E
E5-M	0-10V MUA SIGNAL TO BMS - 2 WIRES	CONTROL PANEL	BMS	E30-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #114E
E6-M	FIELD CONNECTION FOR MAIN DUCT GREASE SENSOR - 3 WIRES	CONTROL PANEL	GREASE SENSOR	E31-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #114E	HOOD #114F
E7-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD	E32-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #114F
E8-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD	E33-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #114F	HOOD #114G
E9-M	2 WIRES TO SPACE TEMPERATURE SENSOR	CONTROL PANEL	TEMP SENSOR	E34-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #114G
E10-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD	E35-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #114G	HOOD #114H
E11-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR	E36-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #114H
E12-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD	E37-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	KDS	HOOD #138A
E13-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR	E38-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #138A	HOOD #138B
E14-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #138A	E39-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #138B	HOOD #138C
E15-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #138A	HOOD #138B	E40-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #122
E16-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #138B	E41-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #114A
E17-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #138B	HOOD #138C	E42-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #114A	HOOD #114B
E18-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #138C	E43-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #114C
E19-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #138C	HOOD #122	E44-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #114C	HOOD #114D
E20-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #122	E45-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #114E
E21-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #122	HOOD #114A	E46-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #114E	HOOD #114F
E22-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #114A	E47-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #114G
E23-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #114A	HOOD #114B	E48-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #114G	HOOD #114H
E24-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #114B	E49-M	3 WIRE STP CABLE - PLENUM RATED - TO BMS(BACNET)	CONTROL PANEL	BMS
E25-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #114B	HOOD #114C				

PRODUCTION KITCHEN 2

**NOTE**  
HOODS TO BE FURNISHED  
BY USING AGENCY AND  
BE INSTALLED BY GC.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.  
PLEASE VERIFY THE FOLLOWING:  
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
**NOTE TO APPROVER:** COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVISE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301	HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42164 1-270-237-5600	BY	DATE
		WU	01.28.14
		WU	04.09.14
		WU	04.21.14
		WU	06.03.14

REVISION DESCRIPTION

REV.	DESCRIPTION
1	INCLUDED MARVEL SHEETS
2	REVISED SCHEDULE
3	NO CHANGE
4	NO CHANGE
5	
6	
7	

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WJ DATE: 01.28.14  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING No.: U12-719  
REV. NO.: 4 SHEET NO.: 29 of 29

**Halton**

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED
	XXX
	OFF.
TRACED	APPROVED
XXX	XXX
CHECKED	APPROVED
XXX	EFW

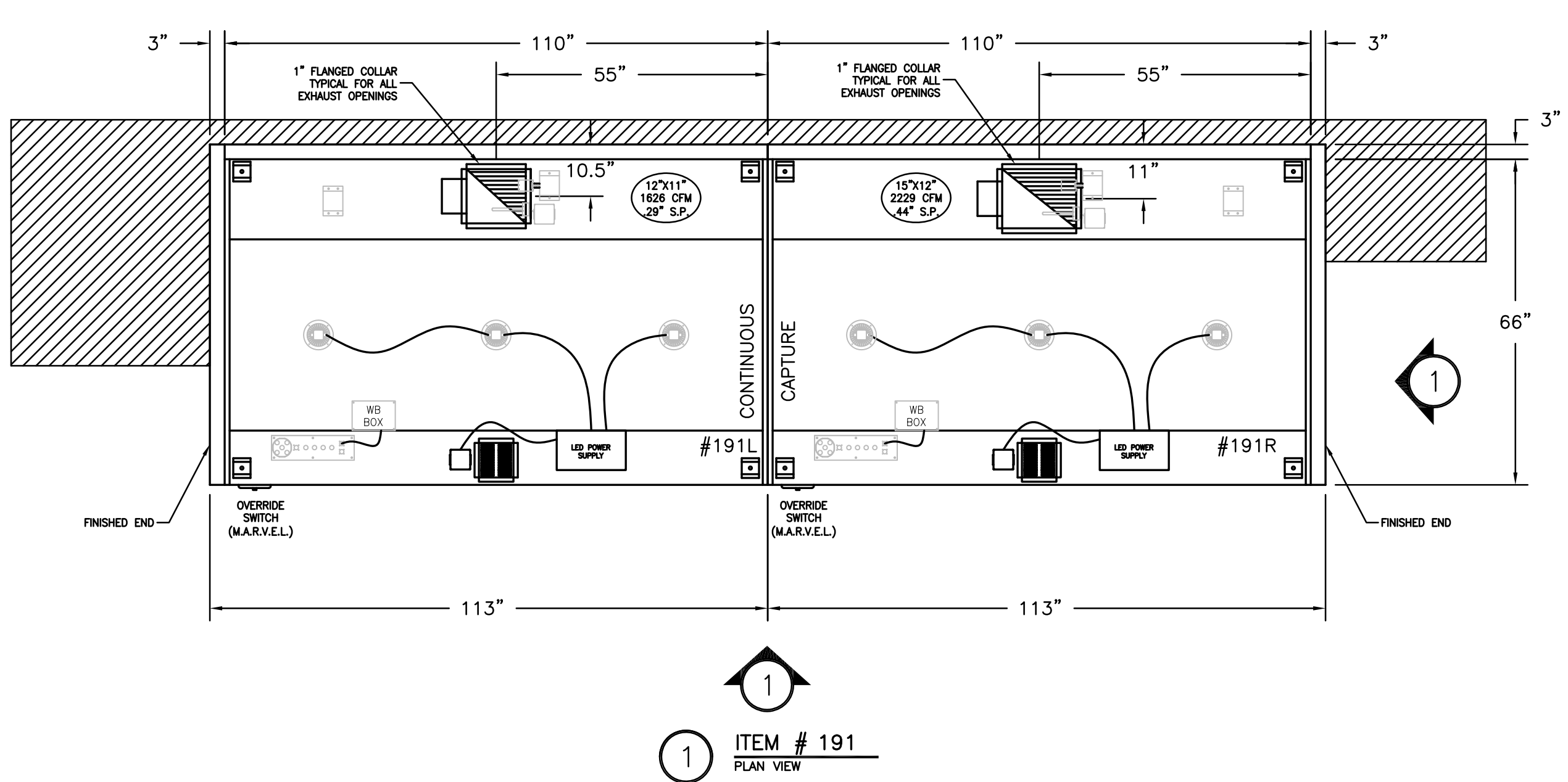
SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

<p><b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000</p>	<p><b>KJWW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320</p>	<p><b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990</p>
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<b>PRODUCTION KITCHEN 2 ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>M.A.R.V.E.L. SYSTEM DETAILS #114</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-75</b> OF SHEETS



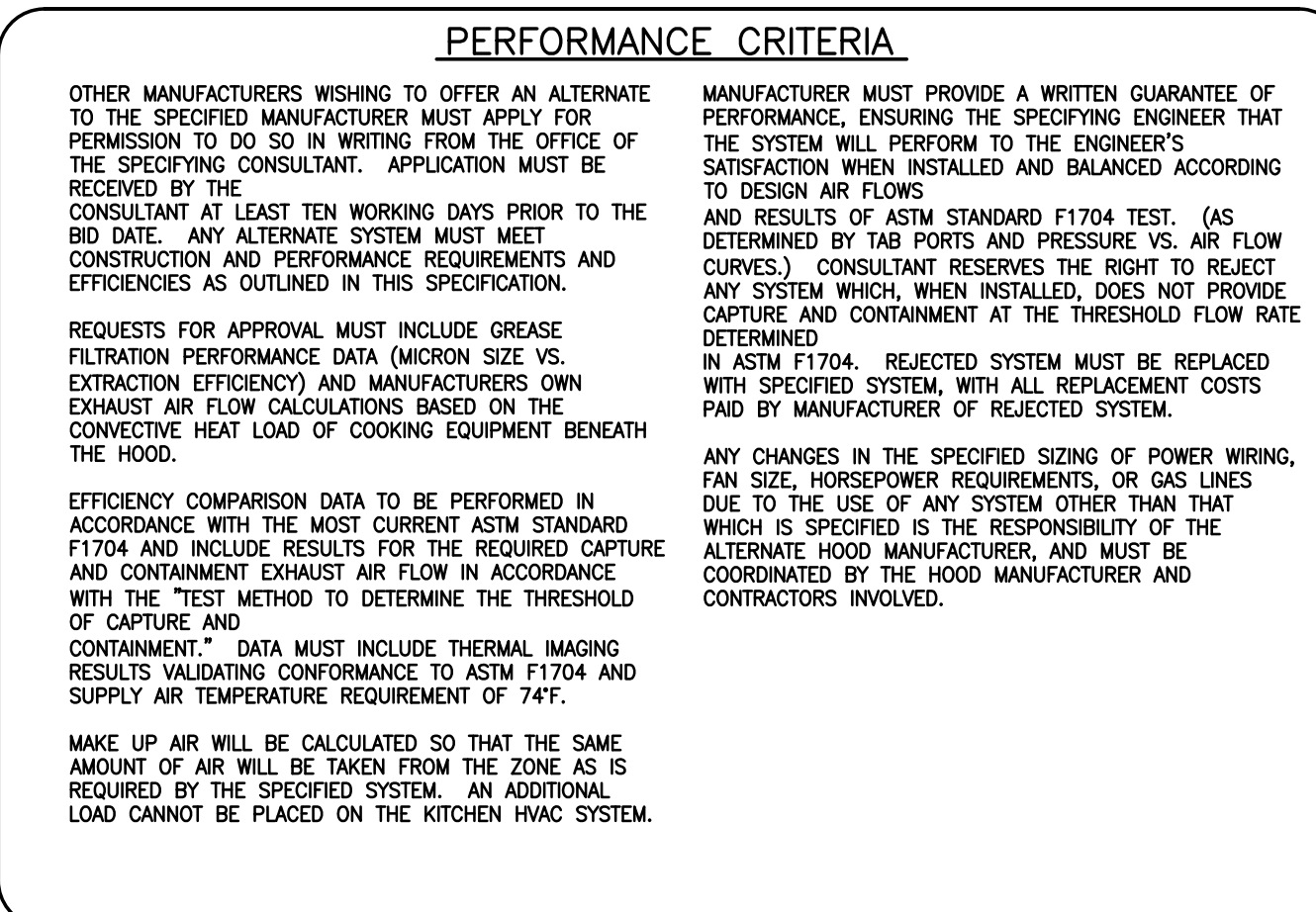
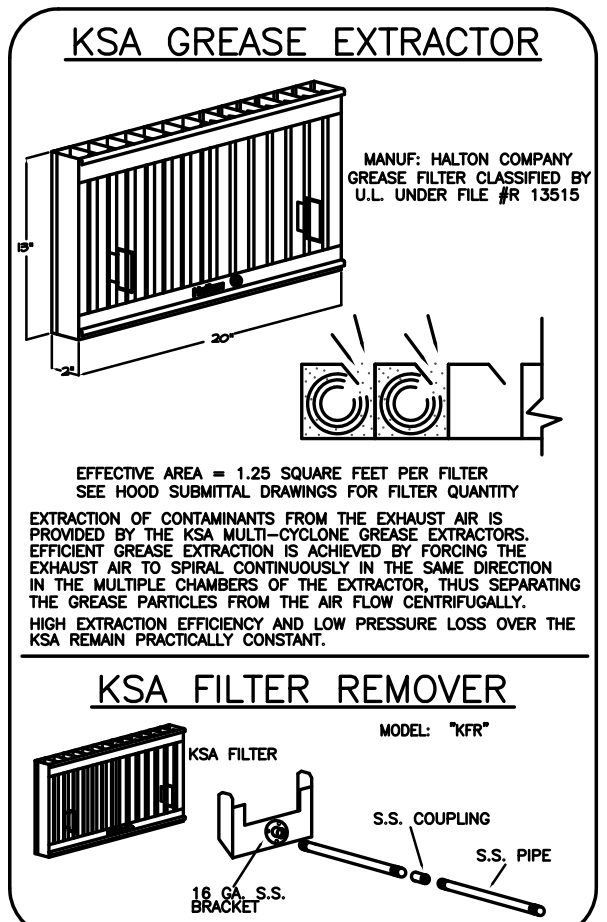
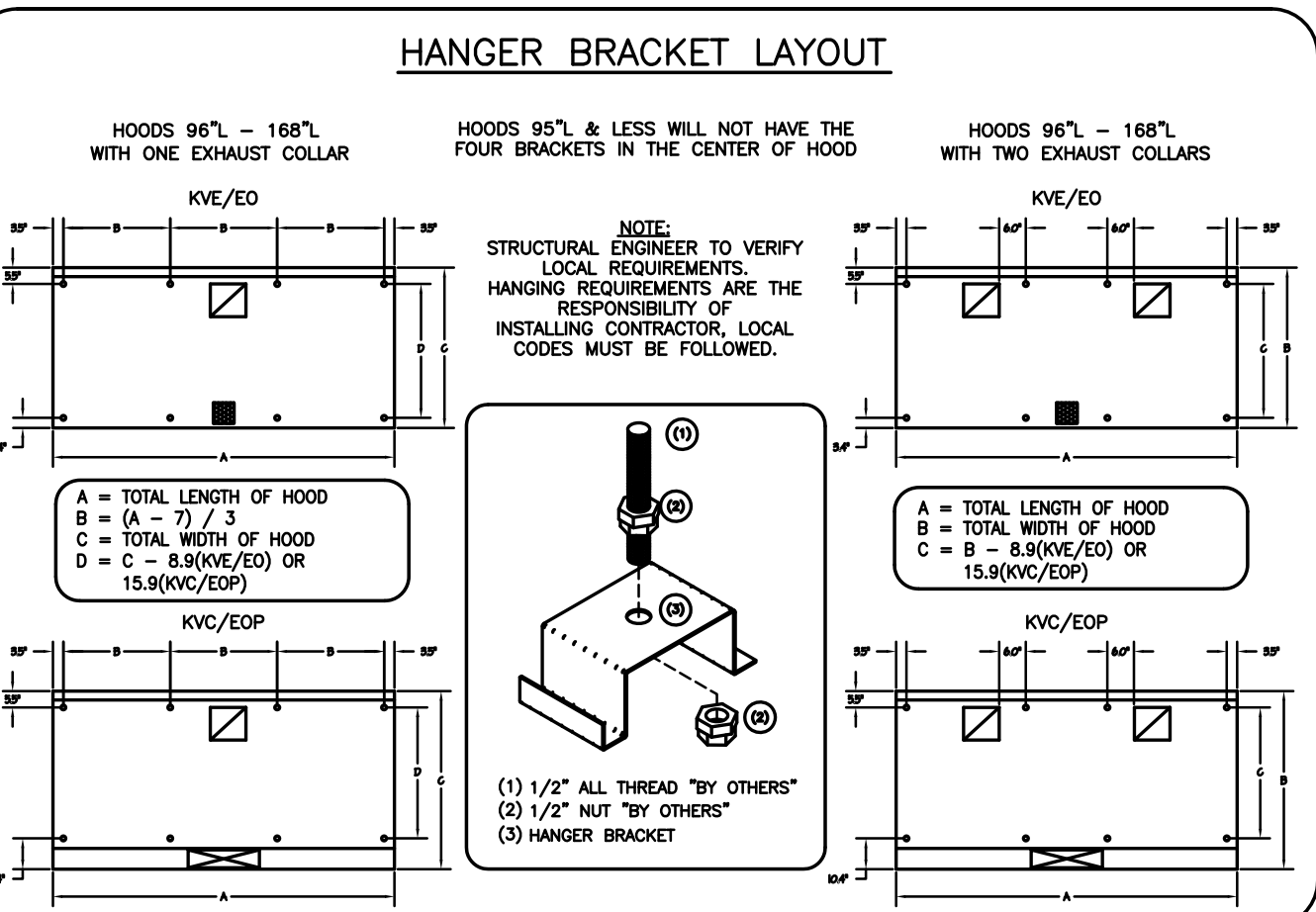
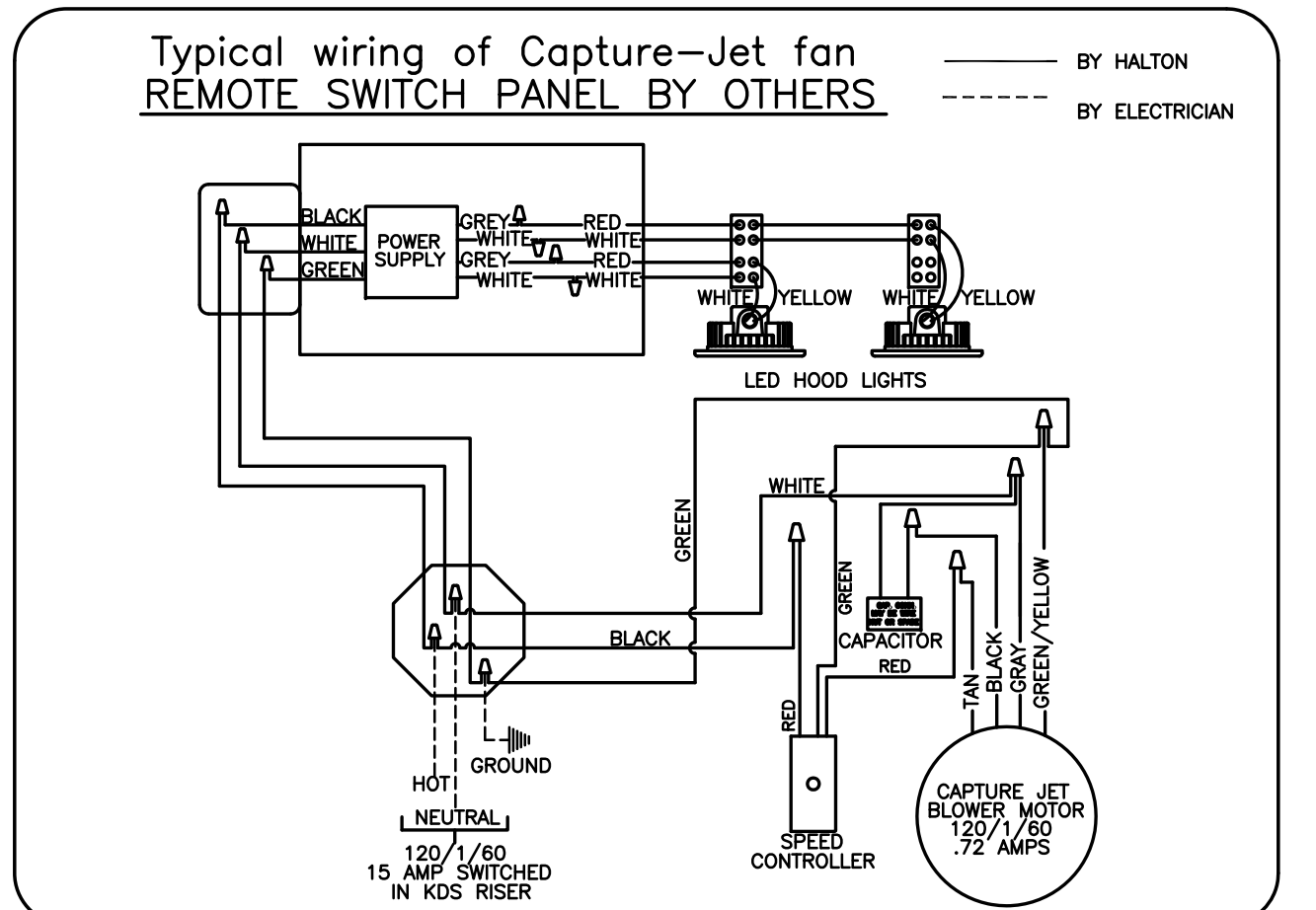
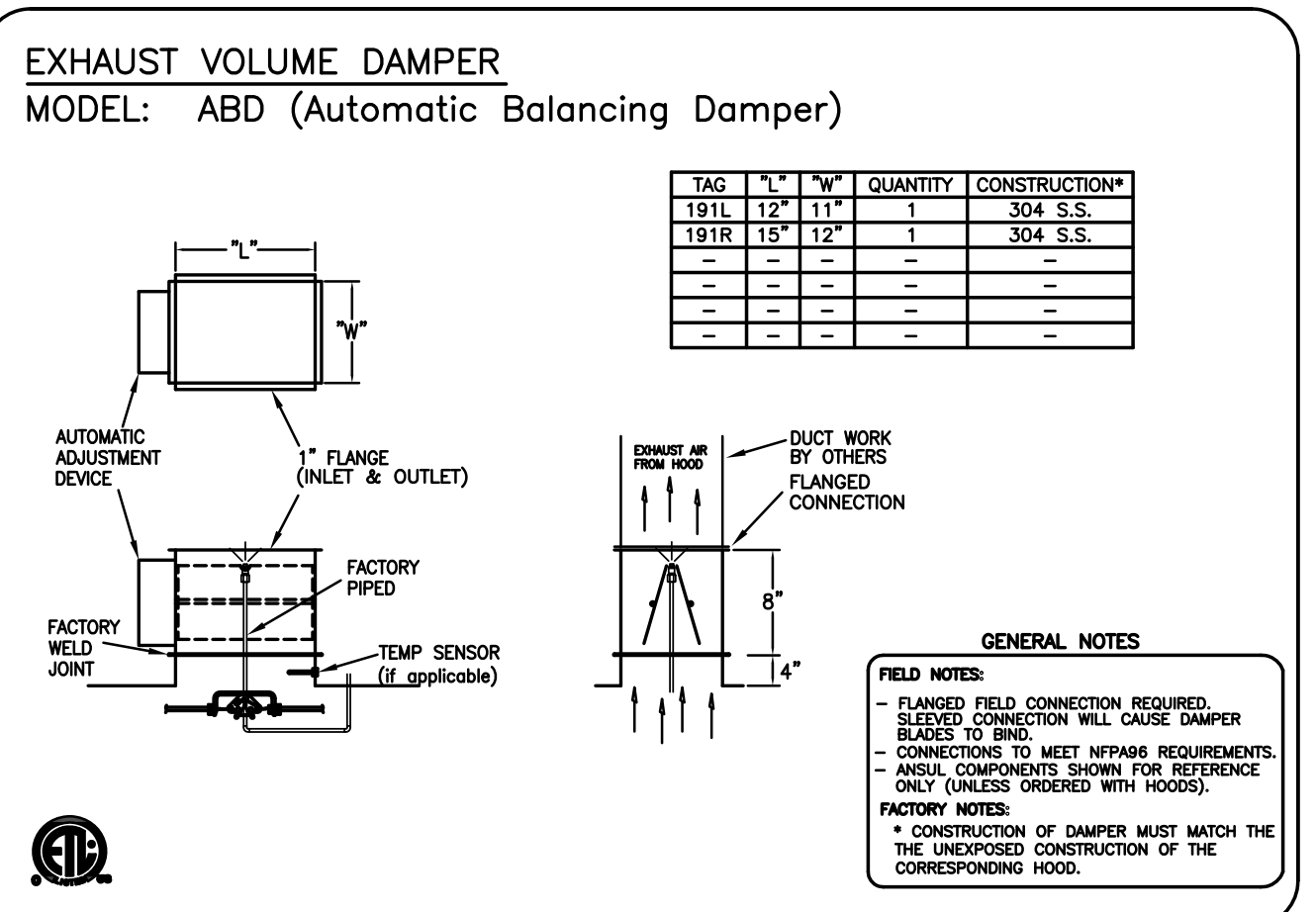
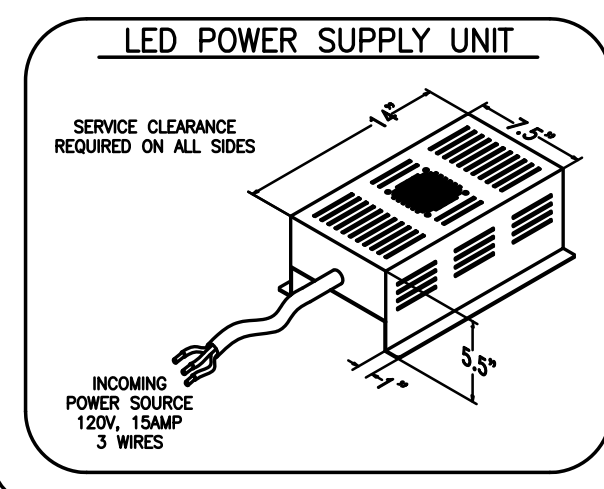
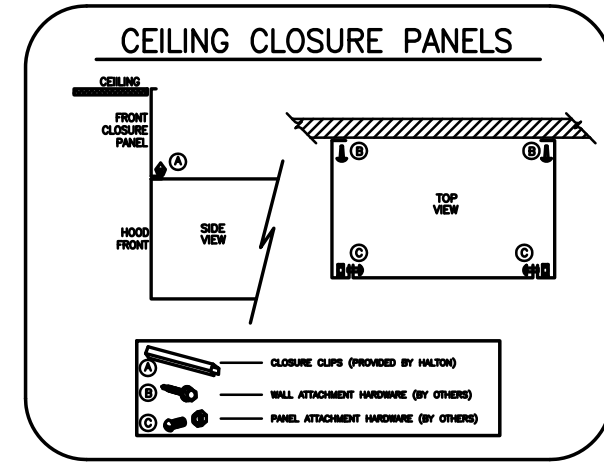
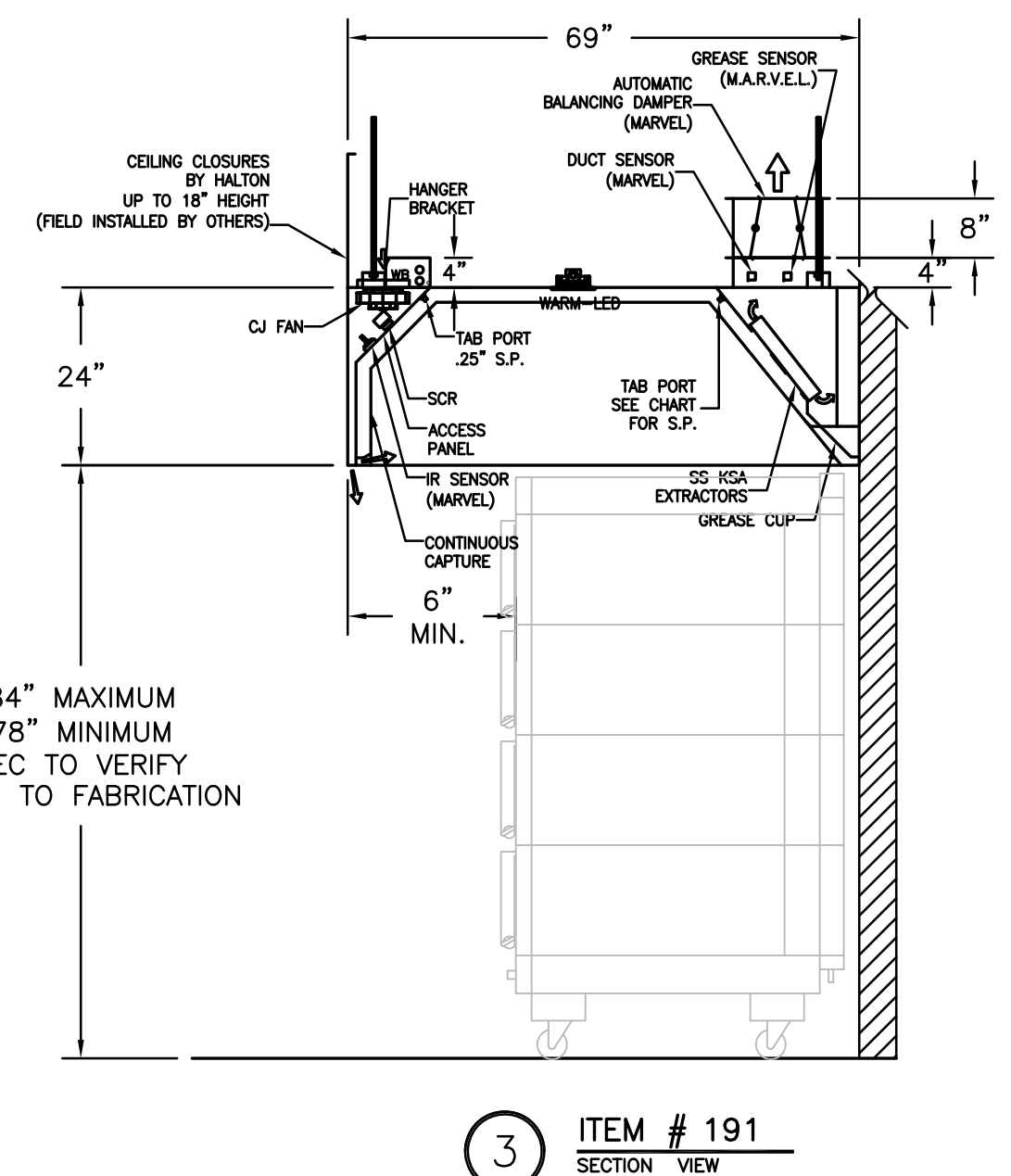
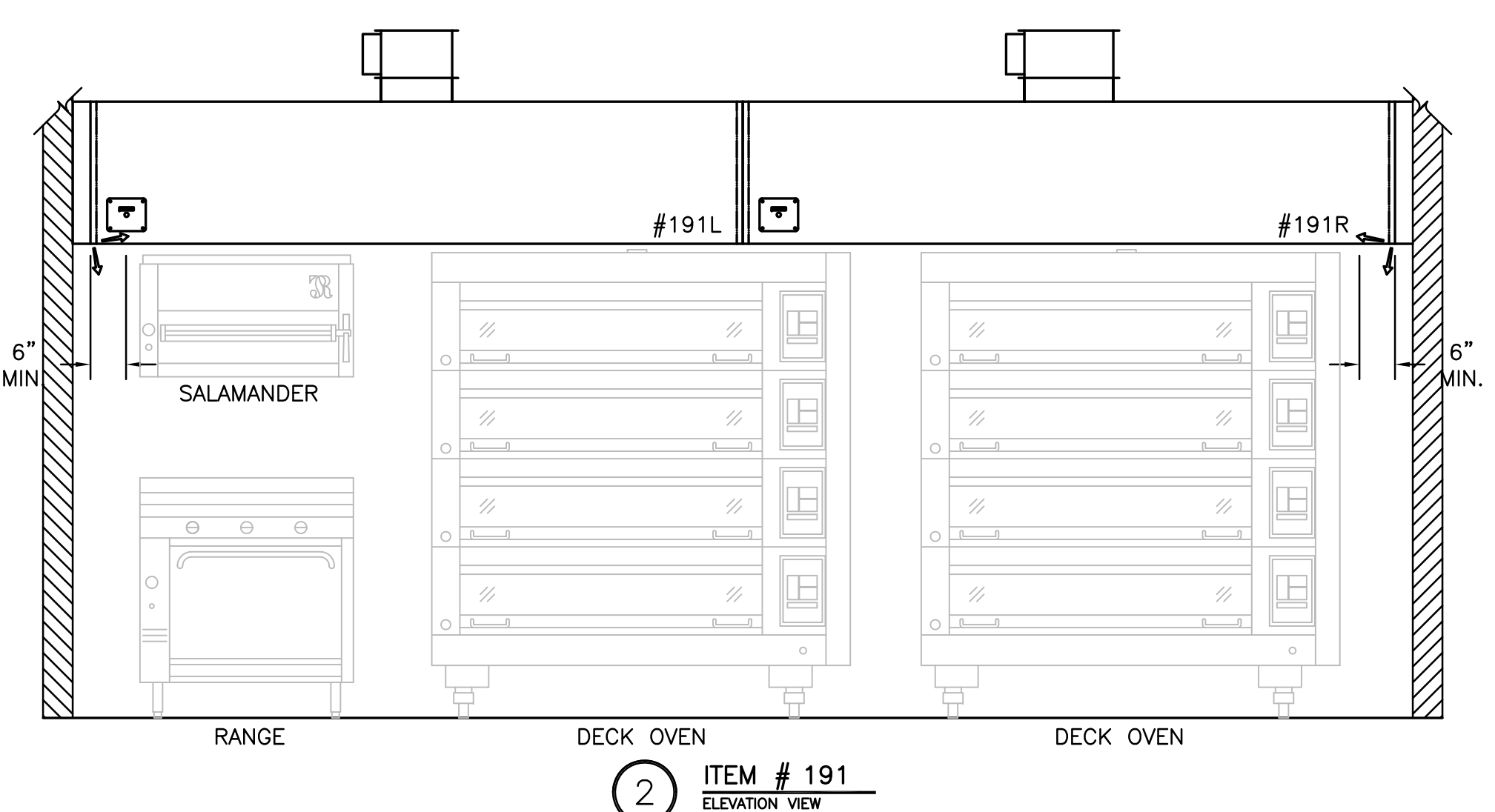
HOOD INFORMATION TABLE													
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS				GREASE EXTRACTOR			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)			
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR QTY.	EXHAUST COLLAR LENGTH	EXHAUST COLLAR WIDTH	QTY.			SIZE L	SIZE H	TYPE
191L	KVE	1626	.22"	.33"	1	12"	11"	5	20"	13"	KSA	ALL 18GA. 304 S.S.	871
191R	KVE	2229	.41"	.52"	1	15"	12"	5	20"	13"	KSA	ALL 18GA. 304 S.S.	871
-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL EXH. CFM = 3855													



4TH FLR 100-300

BAKERY 1

NOTE  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



- GENERAL SPECIFICATIONS
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAZEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

- INSTALLATION REQUIREMENTS
- KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTIONS.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- ELECTRICAL CONTRACTOR'S REQUIREMENTS
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

- ELECTRICAL EQUIPMENT REQUIREMENTS
- FLUORESCENT LIGHT FIXTURE  
40 WATT MAX BULB - .67 AMP EA.
- RECESSED INCANDESCENT LIGHT FIXTURE  
150 WATT MAX BULB - 1.25 AMP EA.
- GLOBE INCANDESCENT LIGHT FIXTURE  
100 WATT MAX BULB - .83 AMP EA.
- LED LIGHT FIXTURES - .30 AMP EA.
- CAPTURE JET FAN - .72 AMP EA.
- \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*  
ARE TO BE PROVIDED BY OTHERS\*\*
- CEILING HEIGHT NOTE
- IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.
- FINISHED CEILING HEIGHT A.F.F.:

GENERAL SPECIFICATIONS

- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAZEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, KY 42164  
1-270-237-5600

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

REVISION DESCRIPTION

REV.	DATE	BY
1	01.24.14	WU
2	04.09.14	WU
3	06.03.14	WU
4	08.07.14	WU
5		
6		
7		

REVISION DESCRIPTION

- REVISED HOOD TO HAVE MUA AND WALL EQUIP CHANGE
- COMBINED HOOD SECTIONS, ADDED NOTE
- REMOVED LIGHT SWITCH FROM HOOD
- REMOVED MUA
- 
- 
- 

PROJECT: JOLIET JUNIOR COLLEGE

LOCATION: JOLIET, IL

DRAWN BY: WU DATE: 12.04.12

SCALE: NOT TO SCALE

CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS

DRAWING NO.: U12-718

REV. NO.: 4 SHEET NO.: 1 of 8

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

PREPARED: XXX OFF.

TRACED: XXX APPROVED: XXX

CHECKED: XXX APPROVED: EFW

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

dkA DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

KJW ENGINEERING  
1100 WARRENVILLE ROAD,  
#400W NAPERVILLE, IL  
60563  
T: 630.527.2320

E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

BAKERY KITCHEN 1  
ISSUED FOR CONSTRUCTION  
HALTON - PLANS and DETAILS #191

CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE

PROJECT NO. CDB 810-048-023

DATE DEC. 12, 2014

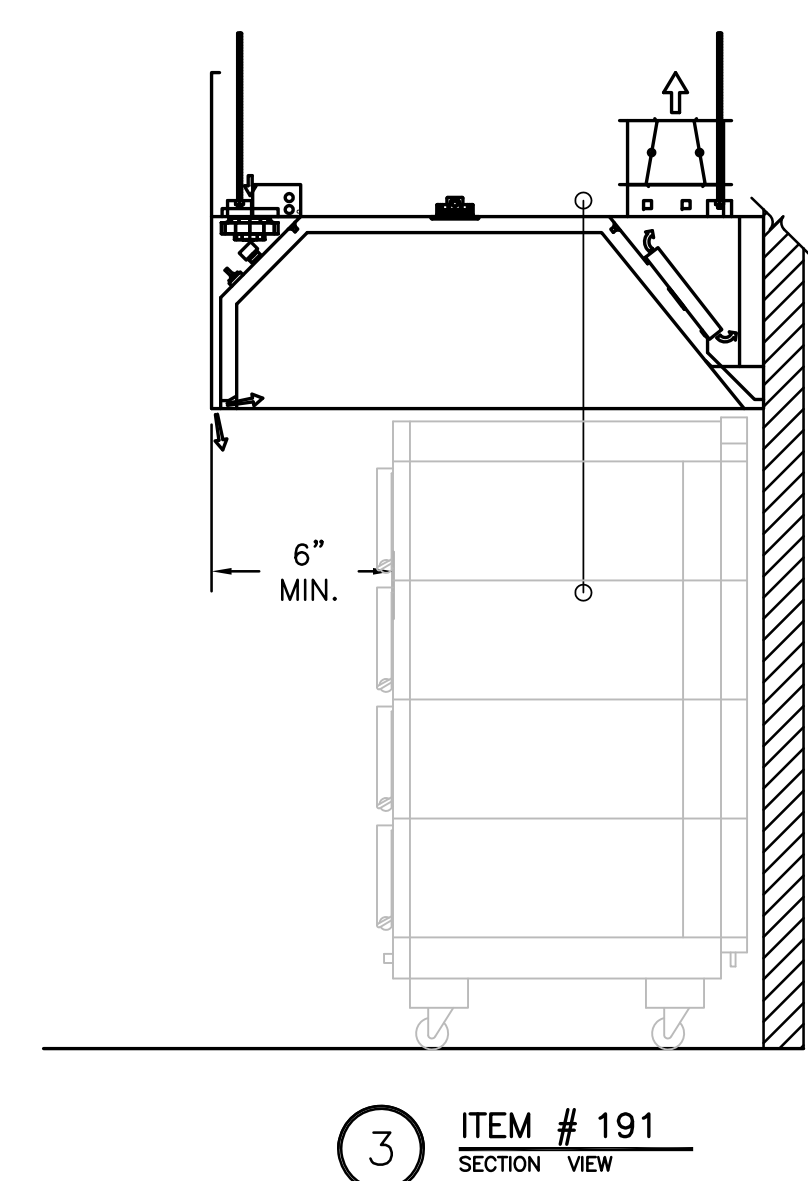
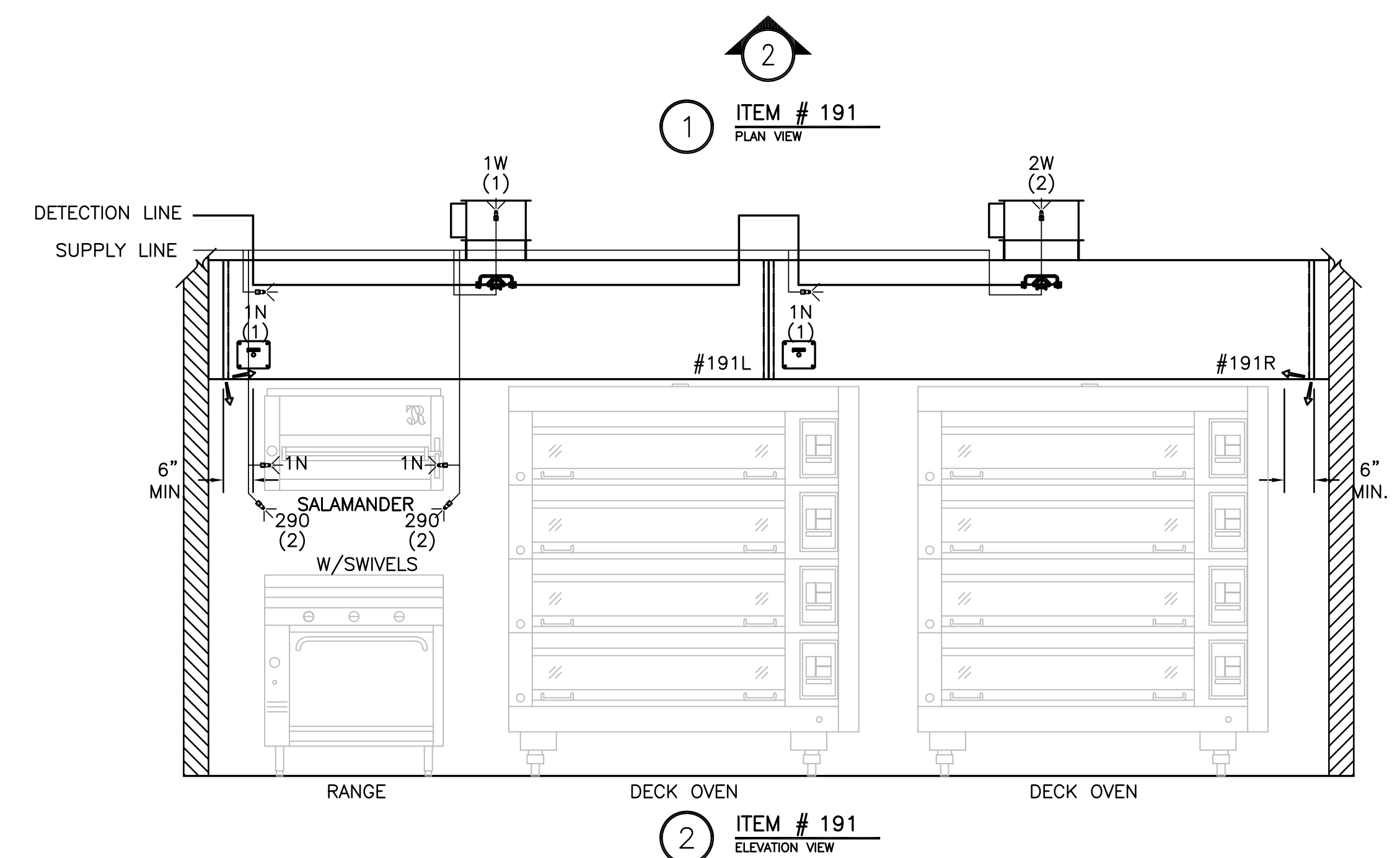
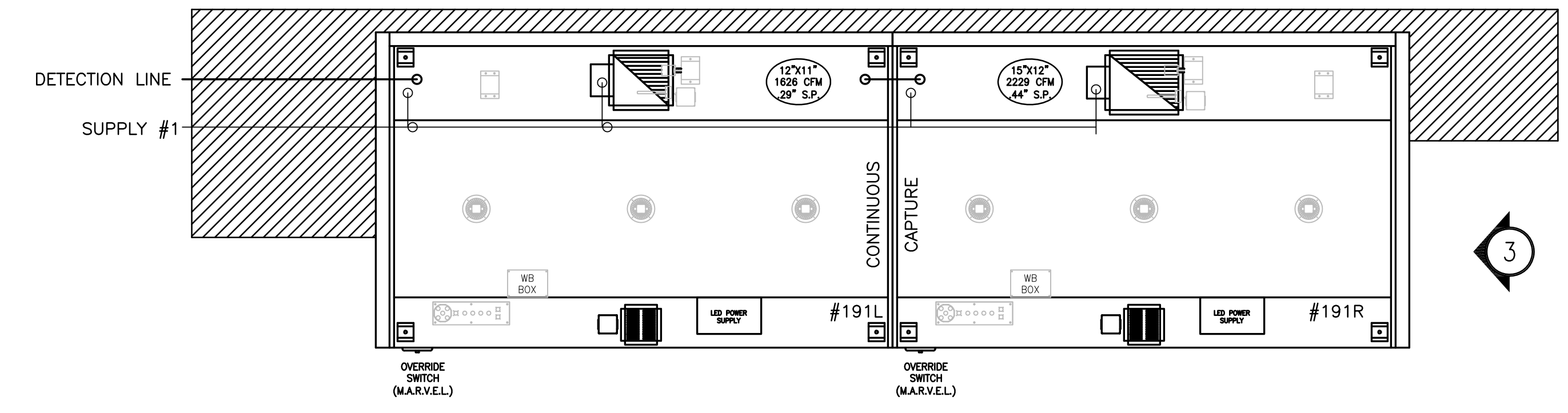
SHEET NO. FSE-76 OF SHEETS



RECOMMENDED PIPING  
 FIRE SYSTEM TO BE FURNISHED AND INSTALLED  
 IN THE FIELD BY THE GC'S FIRE SYSTEM  
 INSTALLATION CONTRACTOR. THIS SHEET  
 CONTAINS HALTONS RECOMMENDED  
 PIPING DETAILS

4TH FLR 100-300

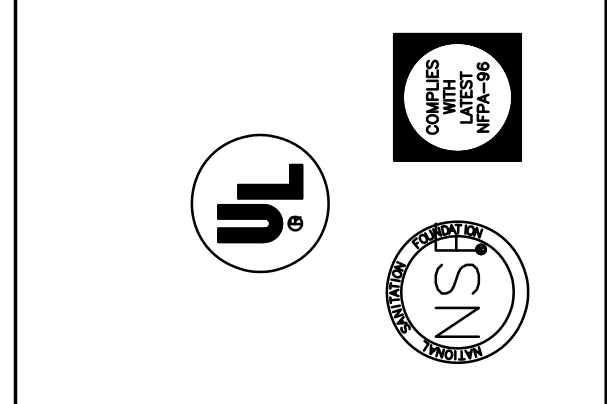
BAKERY 1



- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

NOTE  
 HOODS TO BE FURNISHED  
 BY USING AGENCY AND  
 BE INSTALLED BY GC.

THIS DRAWING MUST BE REVISIONED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.  
 PLEASE REFER TO THE FOLLOWING:  
 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS  
 AND CLEARANCES.  
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
 NOTE: TO APPROXIMATELY POSITIONING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT  
 POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE  
 CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVERSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED HOOD TO HAVE MUA AND WALL EQUIP CHANGE	WU	01.24.14
2	COMBINED HOOD SECTIONS	WU	04.09.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4	REMOVED MUA	WU	08.07.14
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.04.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-718
REV. NO.:	4
SHEET NO.:	2 of 8

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

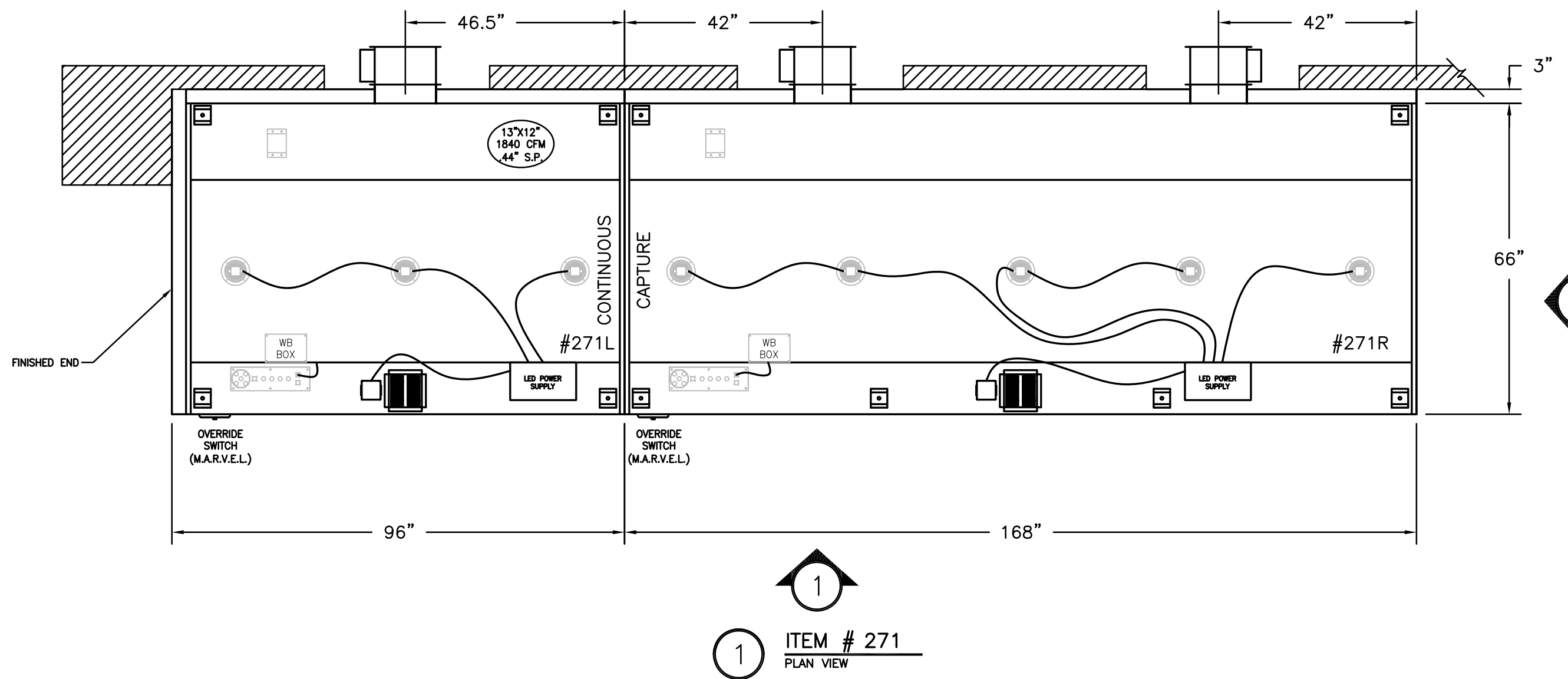
 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
--	--	--

<b>BAKERY KITCHEN 1</b> <b>ISSUED FOR CONSTRUCTION</b> <b>HALTON - PLANS and DETAILS #191 - FIRE SYSTEM</b>		PROJECT NO. CDB 810-048-023
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>		DATE DEC. 12, 2014
<b>FSE-77</b> OF SHEETS		SHEET NO.





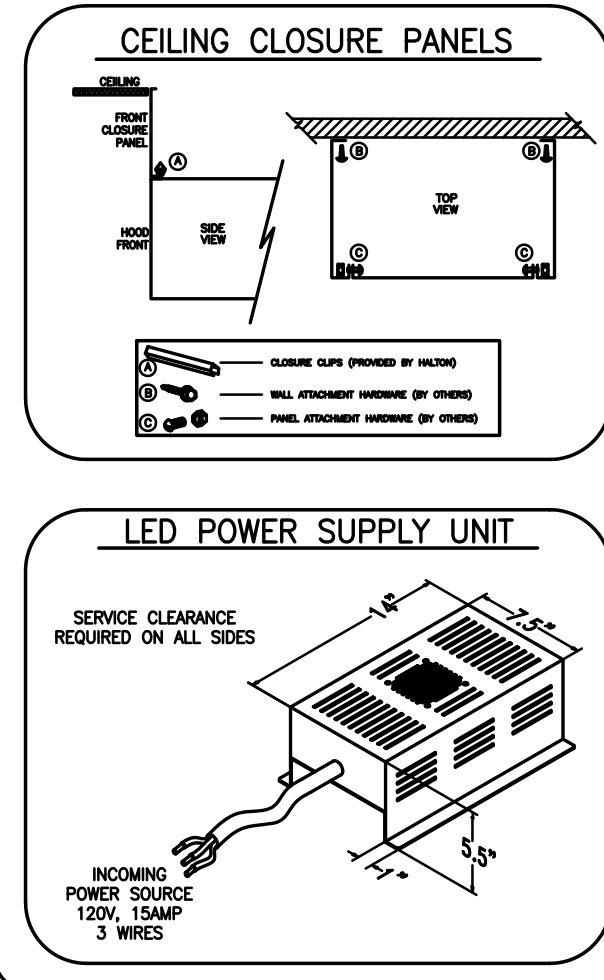
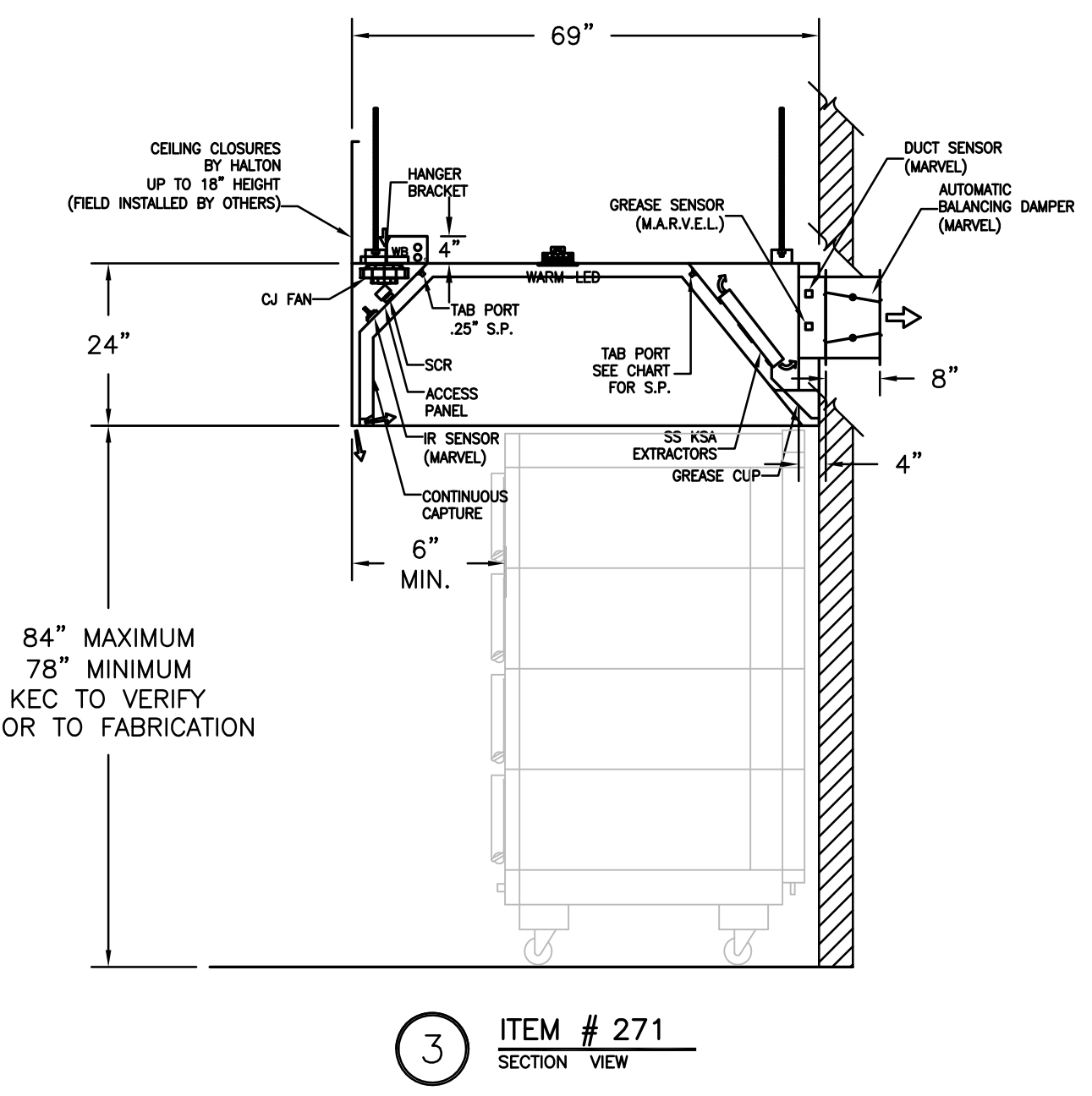
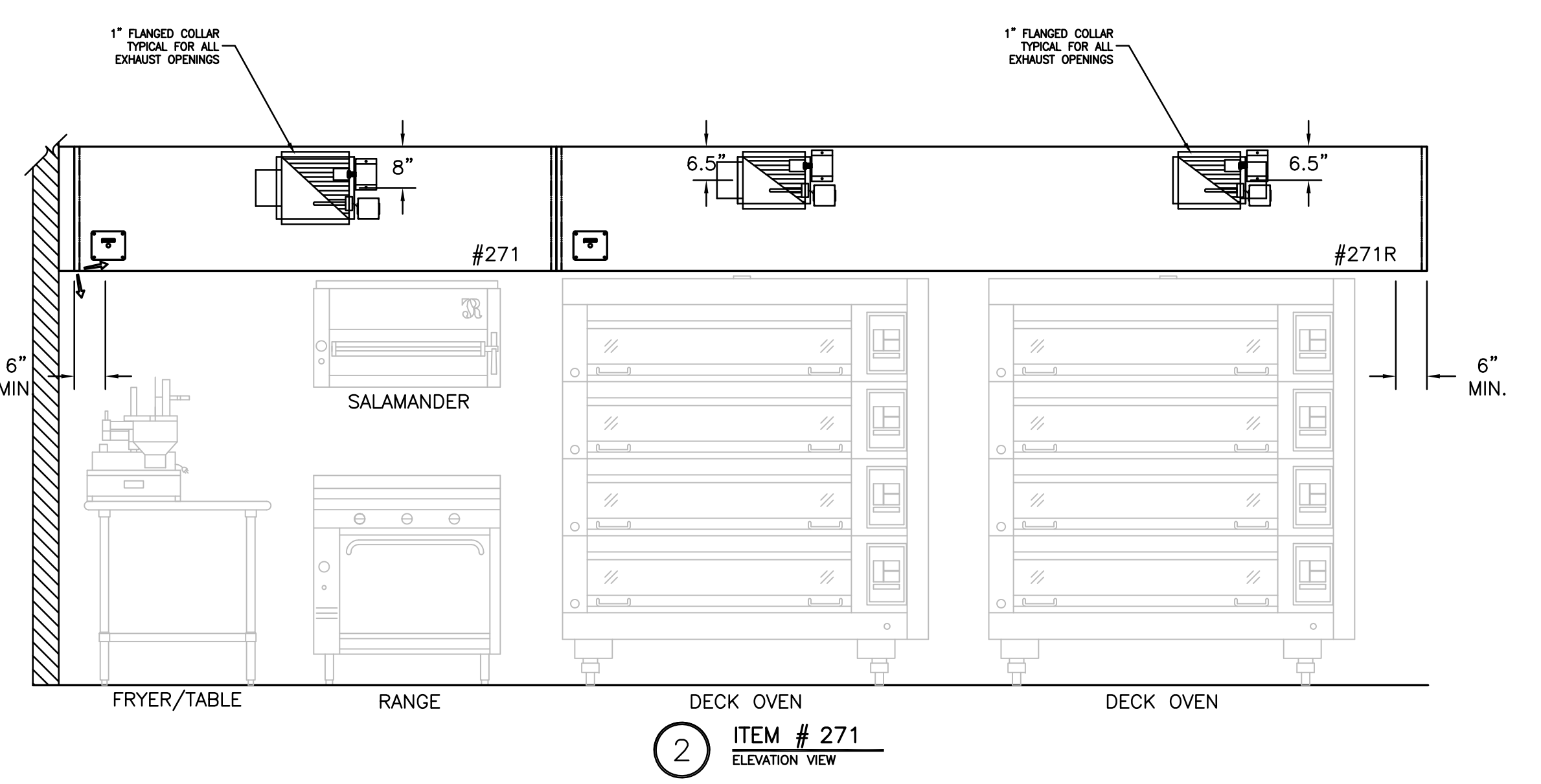
HOOD INFORMATION TABLE												
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS				GREASE EXTRACTOR			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)		
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR	QTY.	SIZE	TYPE				
271L	KVE	1840	.33"	.44"	1	13"	12"	4	20" x 13"	KSA	ALL 18GA. 304 S.S.	740
271R	KVE	2545	.22"	.33"	2	12"	9"	8	20" x 13"	KSA	ALL 18GA. 304 S.S.	1295
-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL EXH. CFM = 4385												



4TH FLR 100-300

BAKERY 2

NOTE  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



- ### GENERAL SPECIFICATIONS
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONNEL AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAZEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

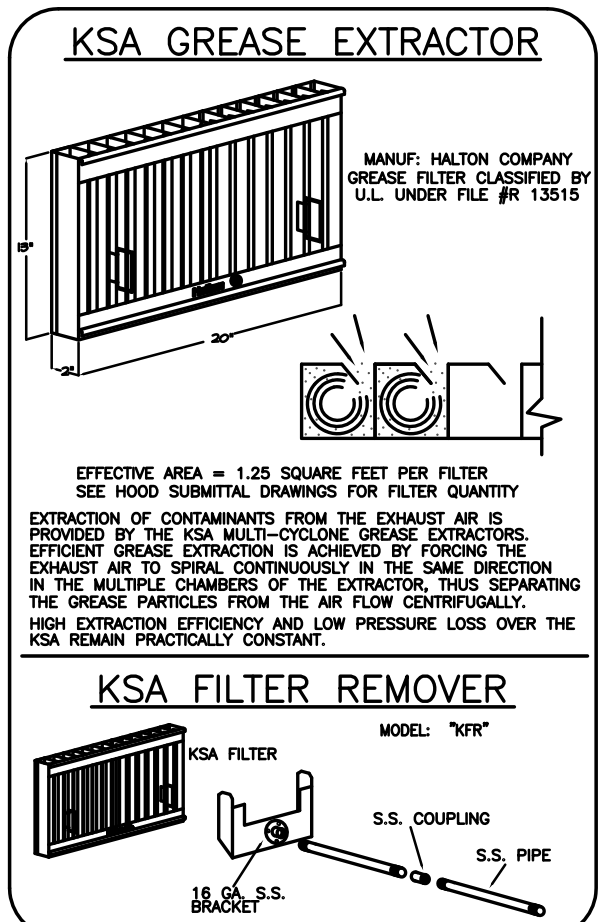
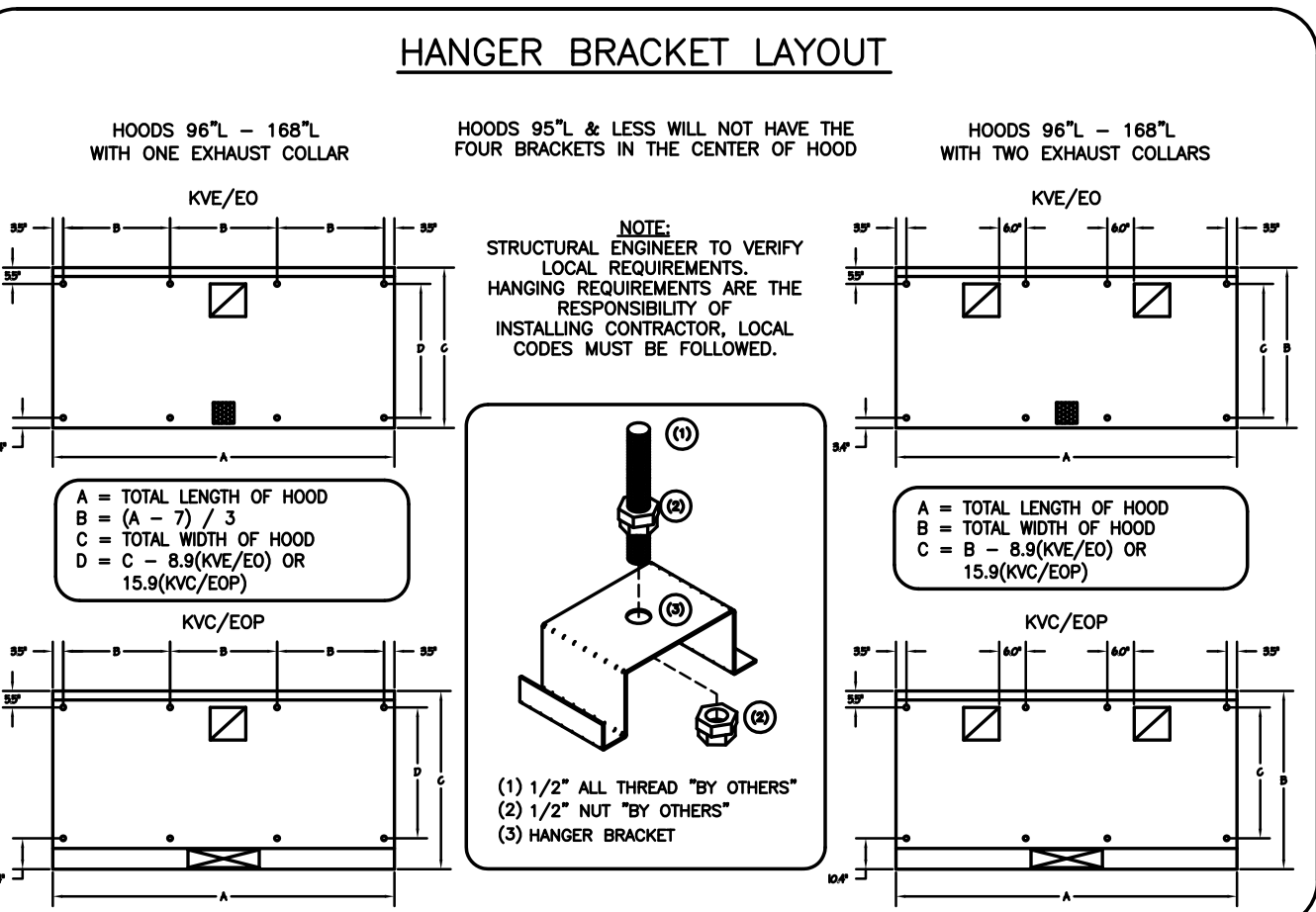
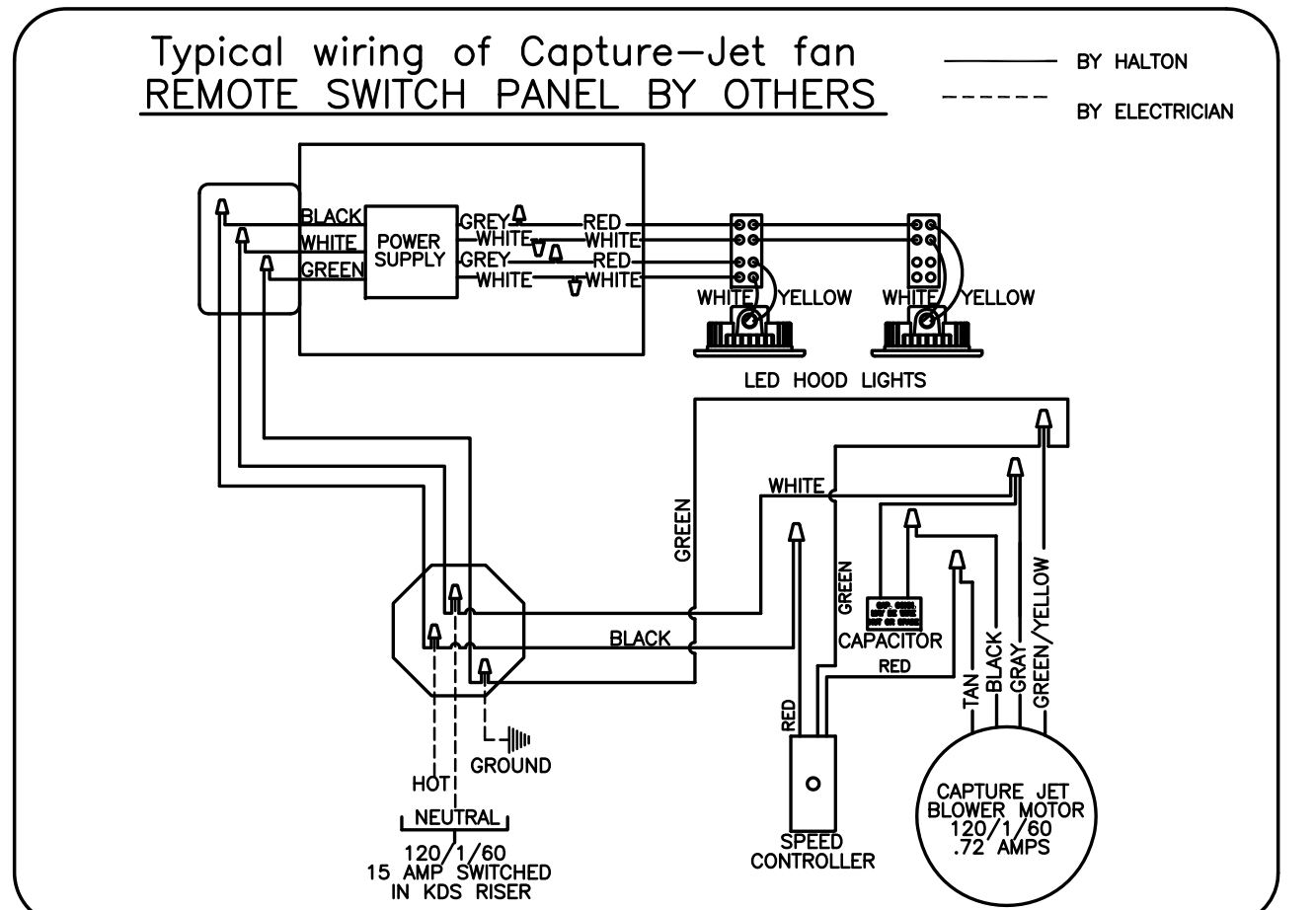
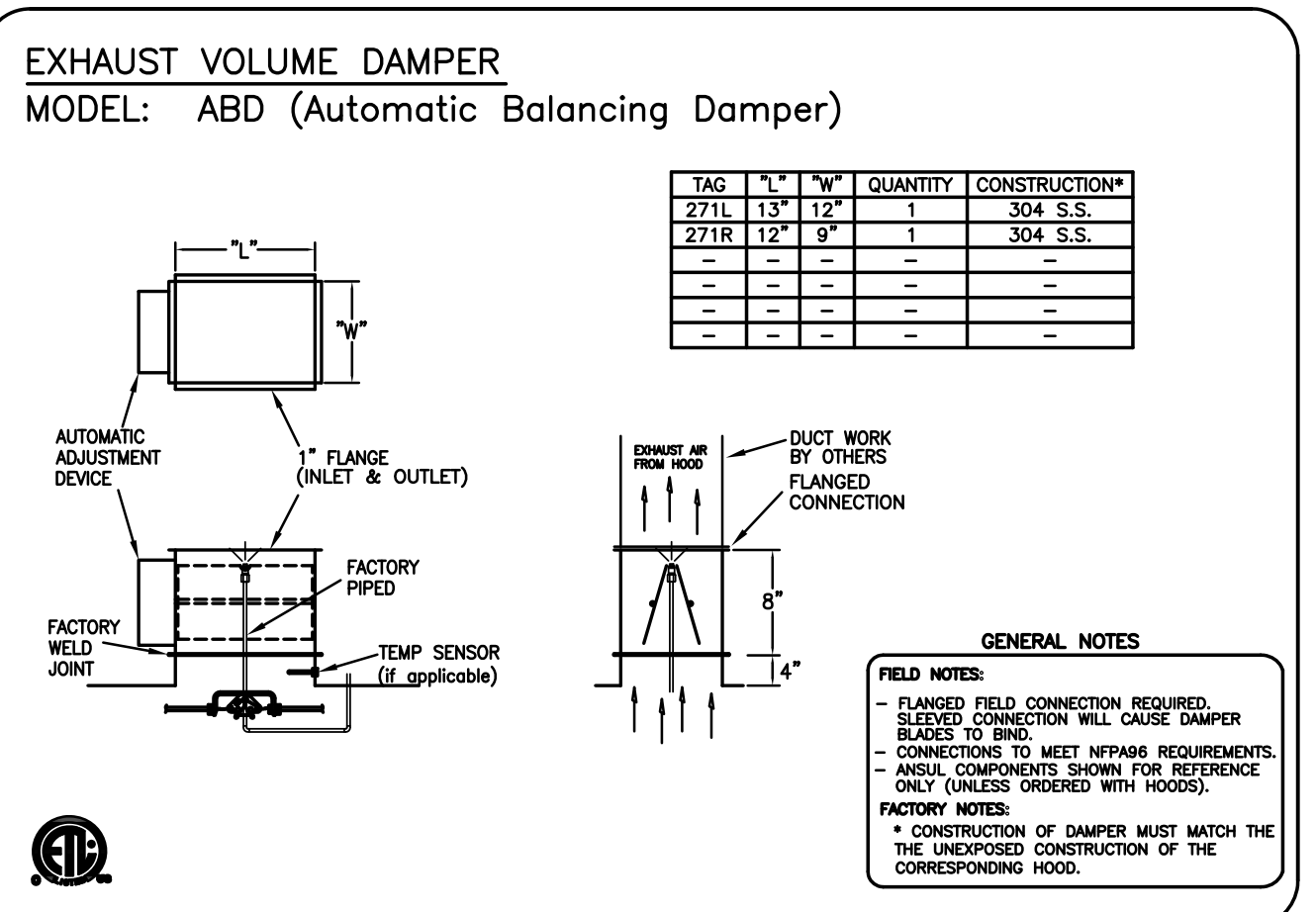
- ### INSTALLATION REQUIREMENTS
- #### KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTIONS.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- #### ELECTRICAL CONTRACTOR'S REQUIREMENTS
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

- ### ELECTRICAL EQUIPMENT REQUIREMENTS
- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .67 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA.
  - CAPTURE JET FAN= .72 AMP EA.
  - \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*
  - \*\*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*

### CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:



### PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

MANUFACTURER MUST PROVIDE A WRITTEN GUARANTEE OF PERFORMANCE. ENSURING THE SPECIFYING ENGINEER THAT THE SYSTEM WILL PERFORM THE ENGINEER'S SATISFACTION WHEN INSTALLED AND BALANCED ACCORDING TO DESIGN AIR FLOWS.

AND RESULTS OF ASTM STANDARD F1704 TEST. (AS DETERMINED BY TAB PORTS AND PRESSURE VS. AIR FLOW CURVES). CONSULTANT RESERVES THE RIGHT TO REJECT ANY SYSTEM WHICH, WHEN INSTALLED, DOES NOT PROVIDE CAPTURE AND CONTAINMENT AS THE THRESHOLD FLOW RATE DETERMINED IN ASTM F1704. REJECTED SYSTEM MUST BE REPLACED WITH SPECIFIED SYSTEM, WITH ALL REPLACEMENT COSTS PAID BY MANUFACTURER OF REJECTED SYSTEM.

ANY CHANGES IN THE SPECIFIED SIZING OF POWER WIRING, FAN SIZE, HORSEPOWER REQUIREMENTS, OR GAS LINES TO THE USE OF ANY SYSTEM OTHER THAN THAT WHICH IS SPECIFIED IS THE RESPONSIBILITY OF THE ALTERNATE HOOD MANUFACTURER, AND MUST BE COORDINATED BY THE HOOD MANUFACTURER AND CONTRACTORS INVOLVED.

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSVILLE, KY 42164  
1-270-237-5600

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

REVISION DESCRIPTION

REV.	DATE	BY
1	01.24.14	WU
2	04.09.14	WU
3	06.03.14	WU
4	08.07.14	WU
5	10.28.14	WU
6		
7		

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU  
DATE: 12.04.12  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING NO.: U12-718  
REV. NO.: 5 SHEET NO.: 3 of 8

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

NO.	DATE	BY	OFF.
XXX		XXX	OFF.
XXX		XXX	OFF.
XXX		EFW	OFF.

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD,  
#400W NAPERVILLE, IL  
60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**BAKERY KITCHEN 2**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #271**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

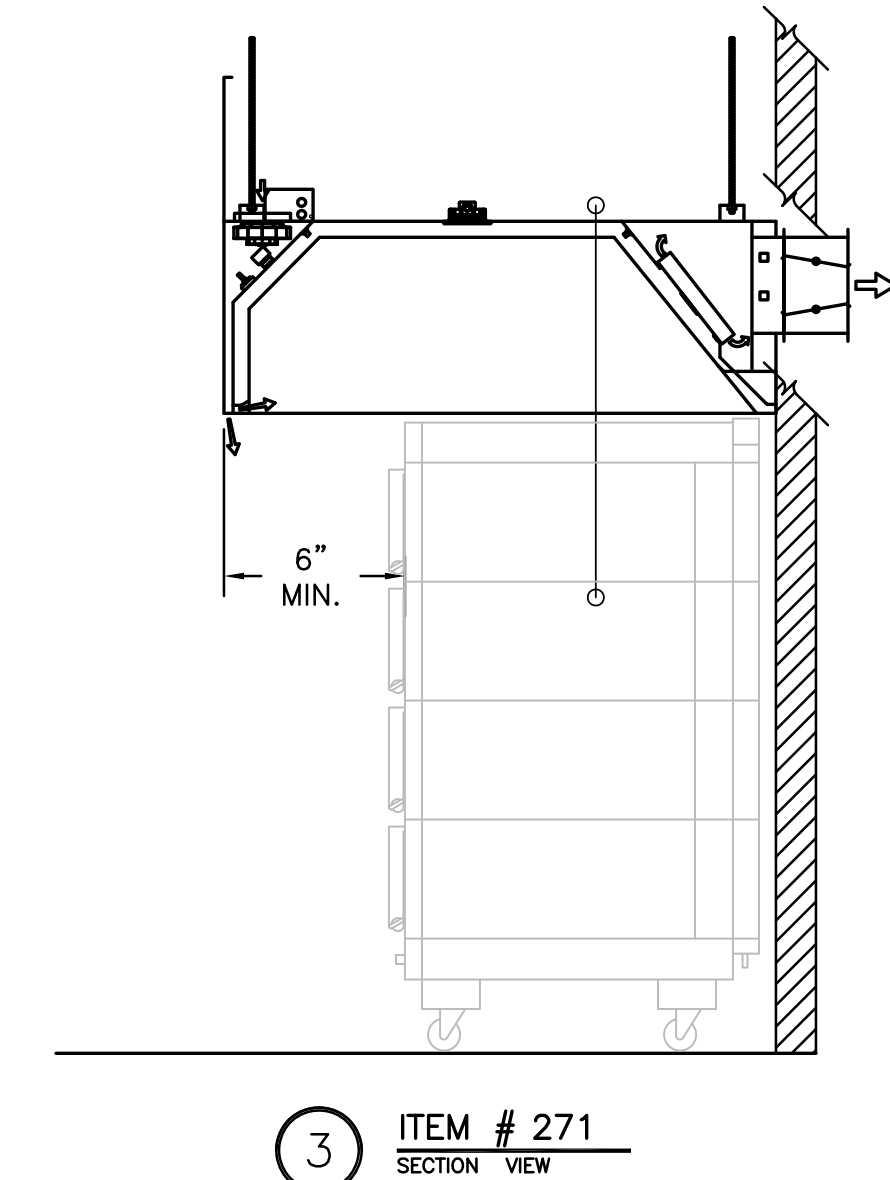
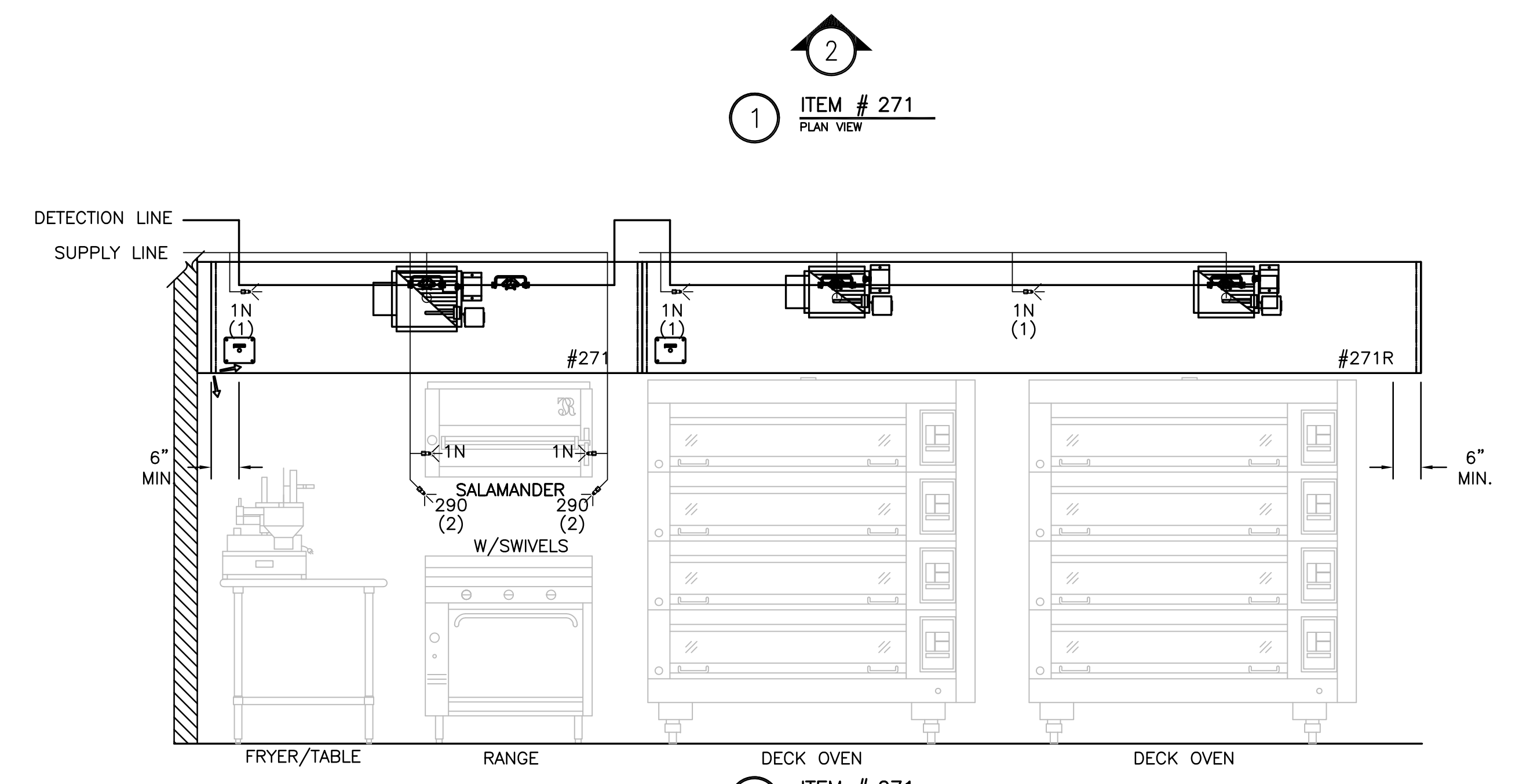
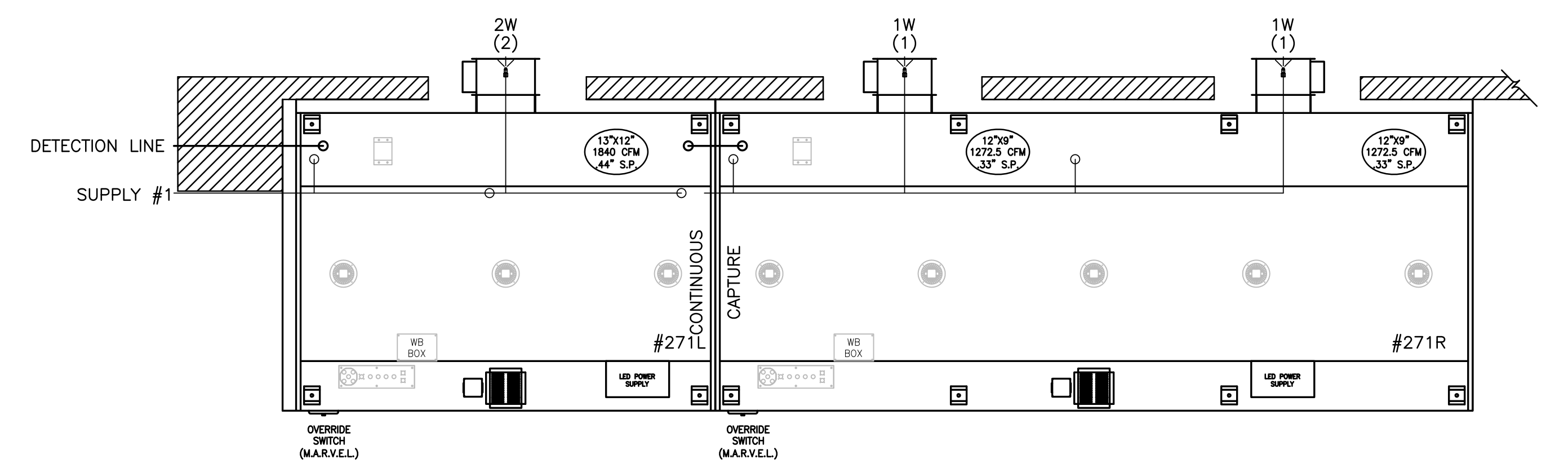
PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. **FSE-79** OF SHEETS



RECOMMENDED PIPING  
 FIRE SYSTEM TO BE FURNISHED AND INSTALLED  
 IN THE FIELD BY THE GC'S FIRE SYSTEM  
 INSTALLATION CONTRACTOR. THIS SHEET  
 CONTAINS HALTONS RECOMMENDED  
 PIPING DETAILS

4TH FLR 100-300

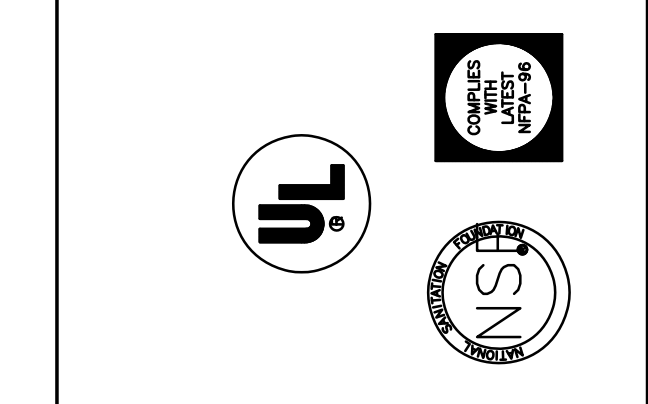
BAKERY 2



- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

NOTE  
 HOODS TO BE FURNISHED  
 BY USING AGENCY AND  
 BE INSTALLED BY GC.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.  
 PLEASE REFER TO THE FOLLOWING:  
 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
 NOTE: TO APPROVE COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECIRCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVERSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	ADDED HOOD	WU	01.24.14
2	COMBINED HOODS	WU	04.09.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4	REMOVED MIA	WU	08.07.14
5	REVISED COLLAR TO REAR OF HOOD	WU	10.28.14
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.04.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-718
REV. NO.:	5
SHEET NO.:	4 of 8

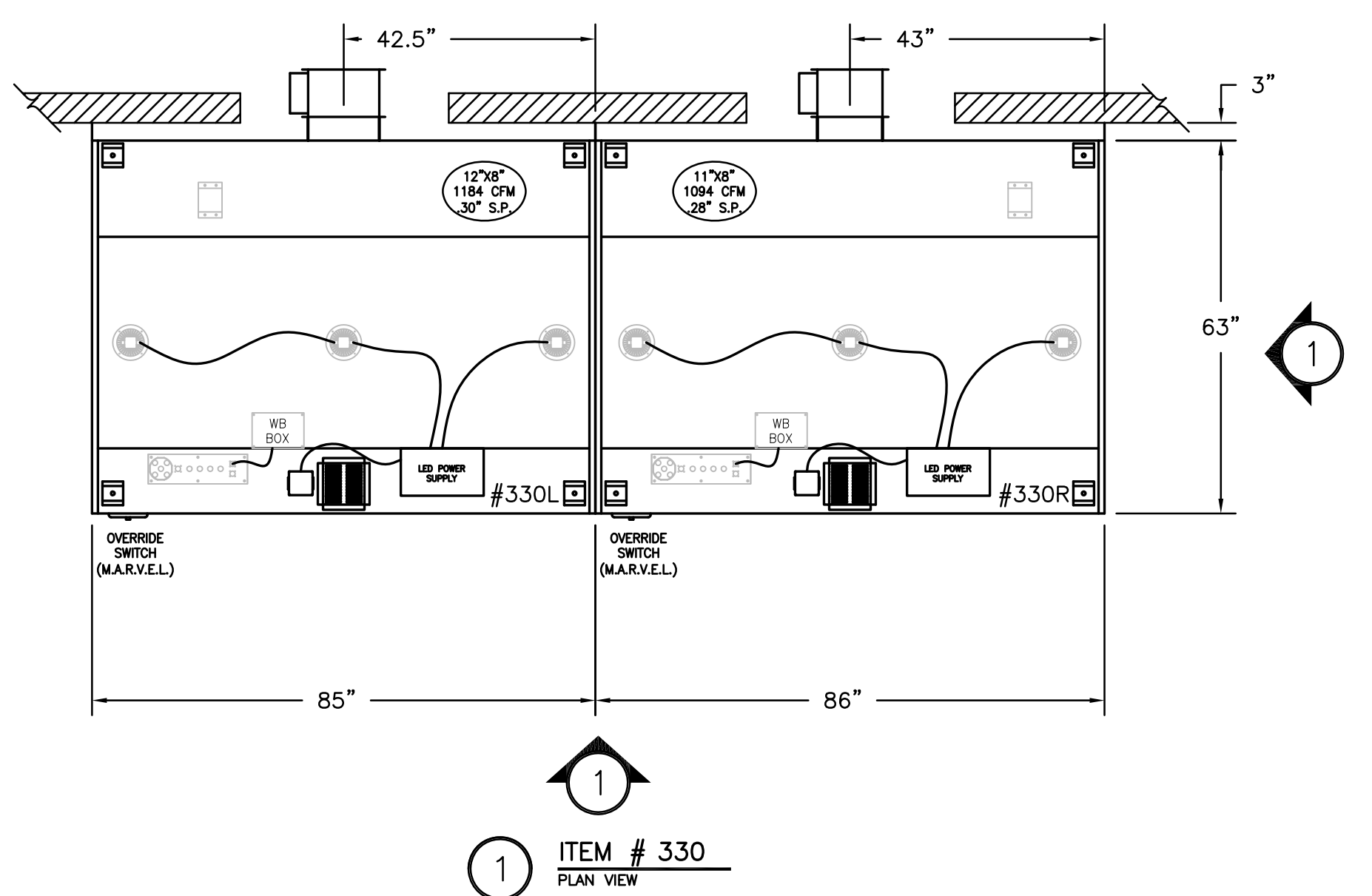
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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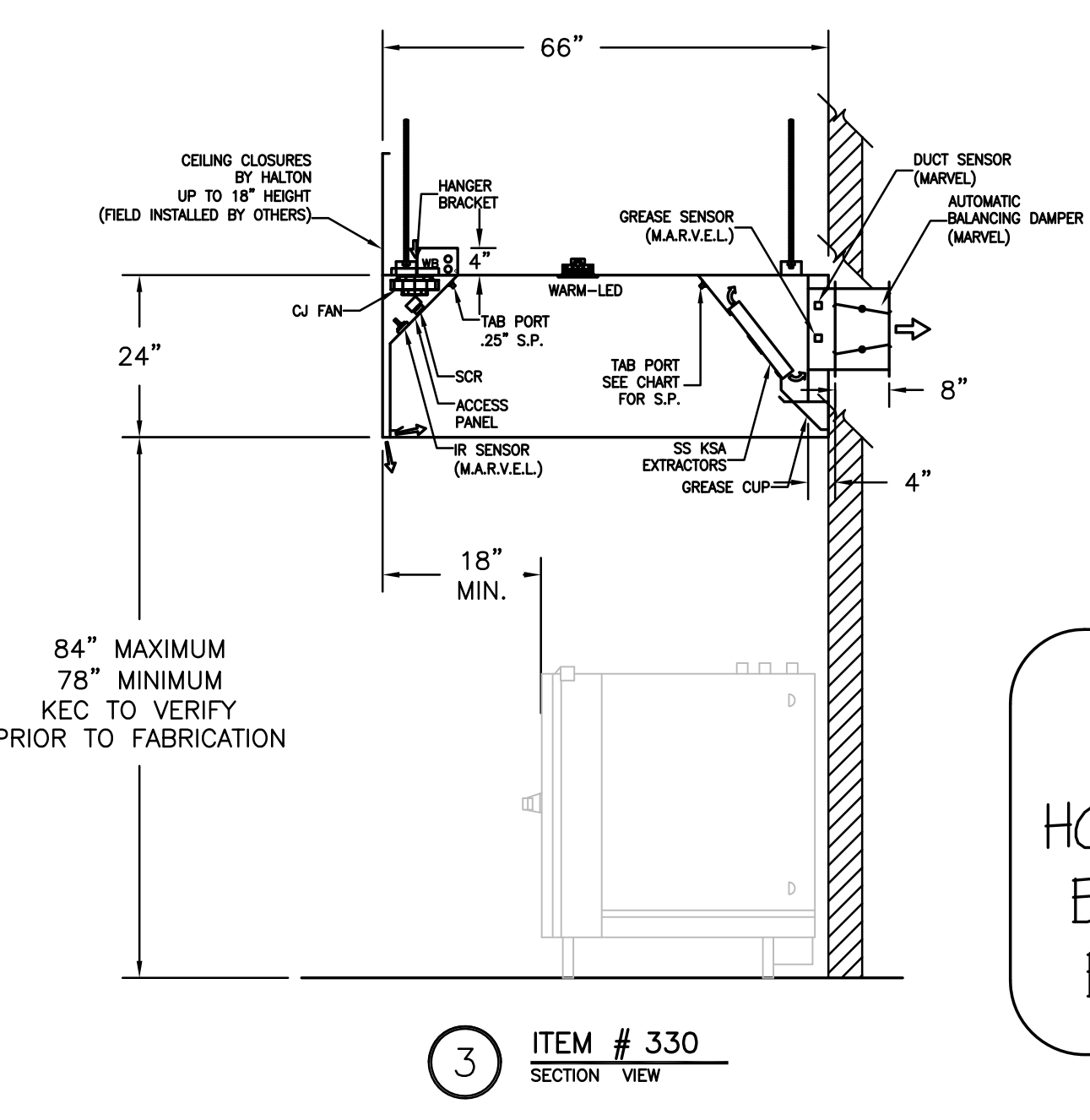
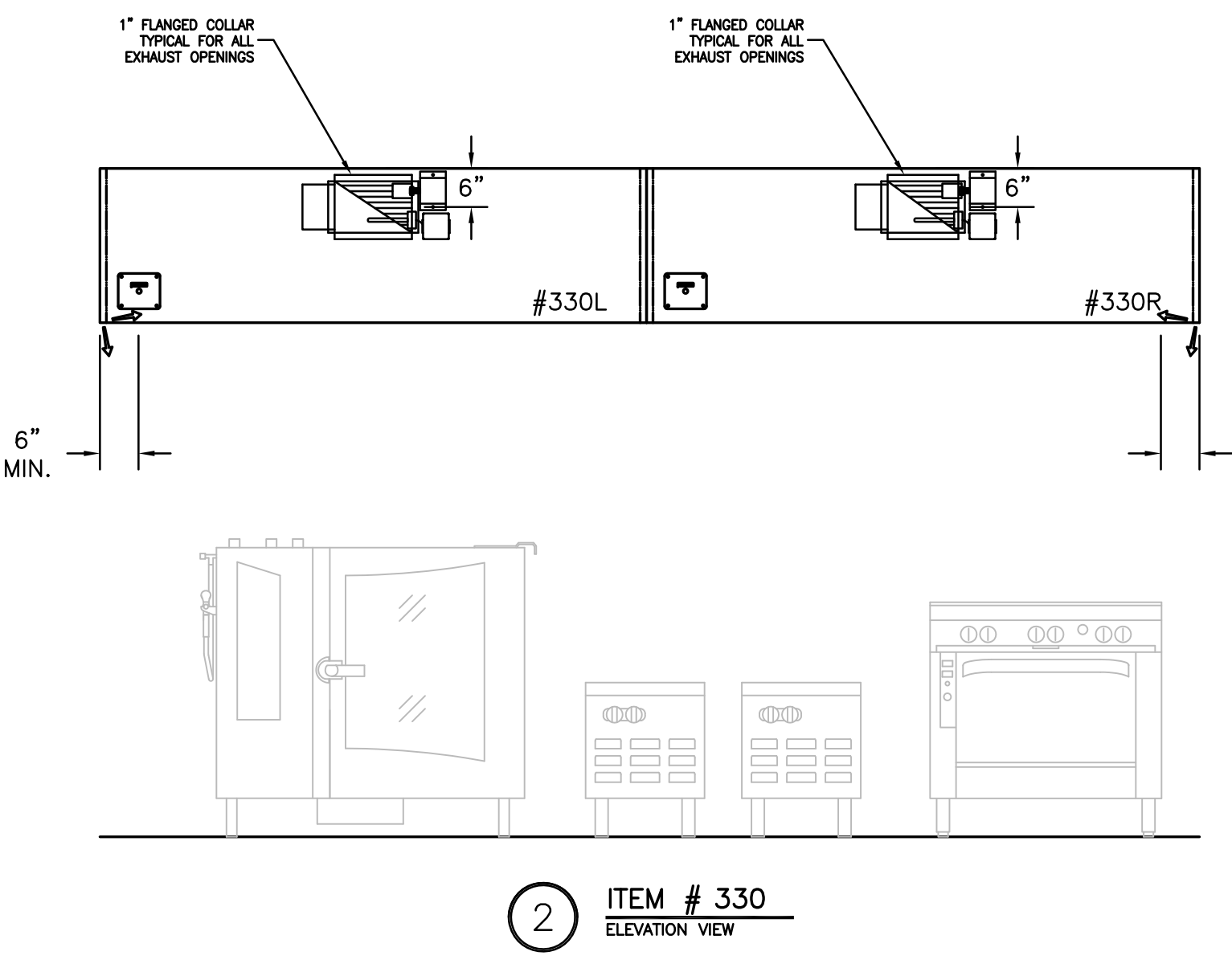
<b>BAKERY KITCHEN 2</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>HALTON - PLANS and DETAILS #271 - FIRE SYSTEM</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-80</b>		OF SHEETS

HOOD INFORMATION TABLE												
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS			GREASE EXTRACTOR			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)			
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR QTY.	LENGTH	WIDTH			QTY.	SIZE L H	TYPE
330L	KVE	1184	.18"	.30"	1	12"	8"	4	20" 13"	KSA	ALL 18GA. 304 S.S.	637
330R	KVE	1094	.16"	.28"	1	11"	8"	4	20" 13"	KSA	ALL 18GA. 304 S.S.	645
-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL EXH. CFM = 2278												



4TH FLR 100-300

BAKERY 2

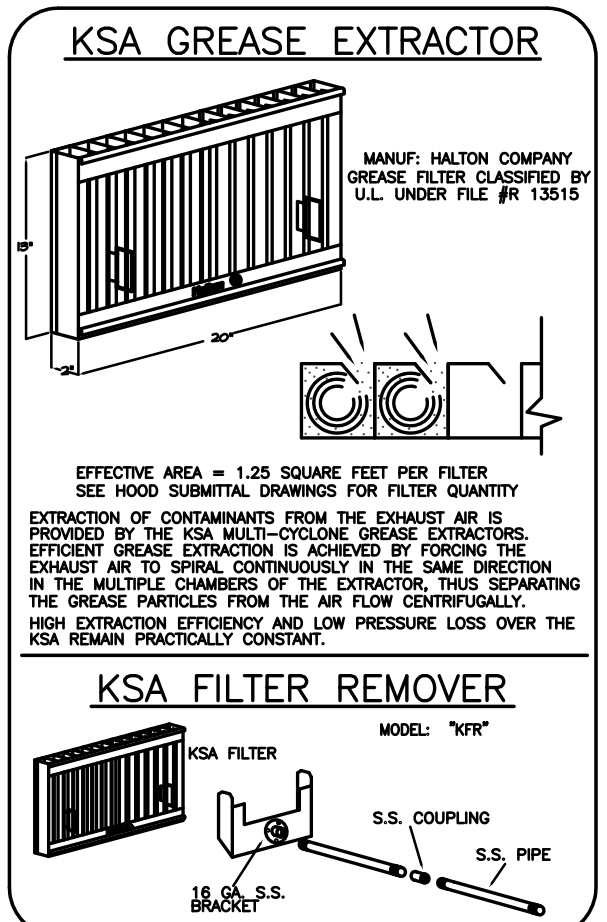
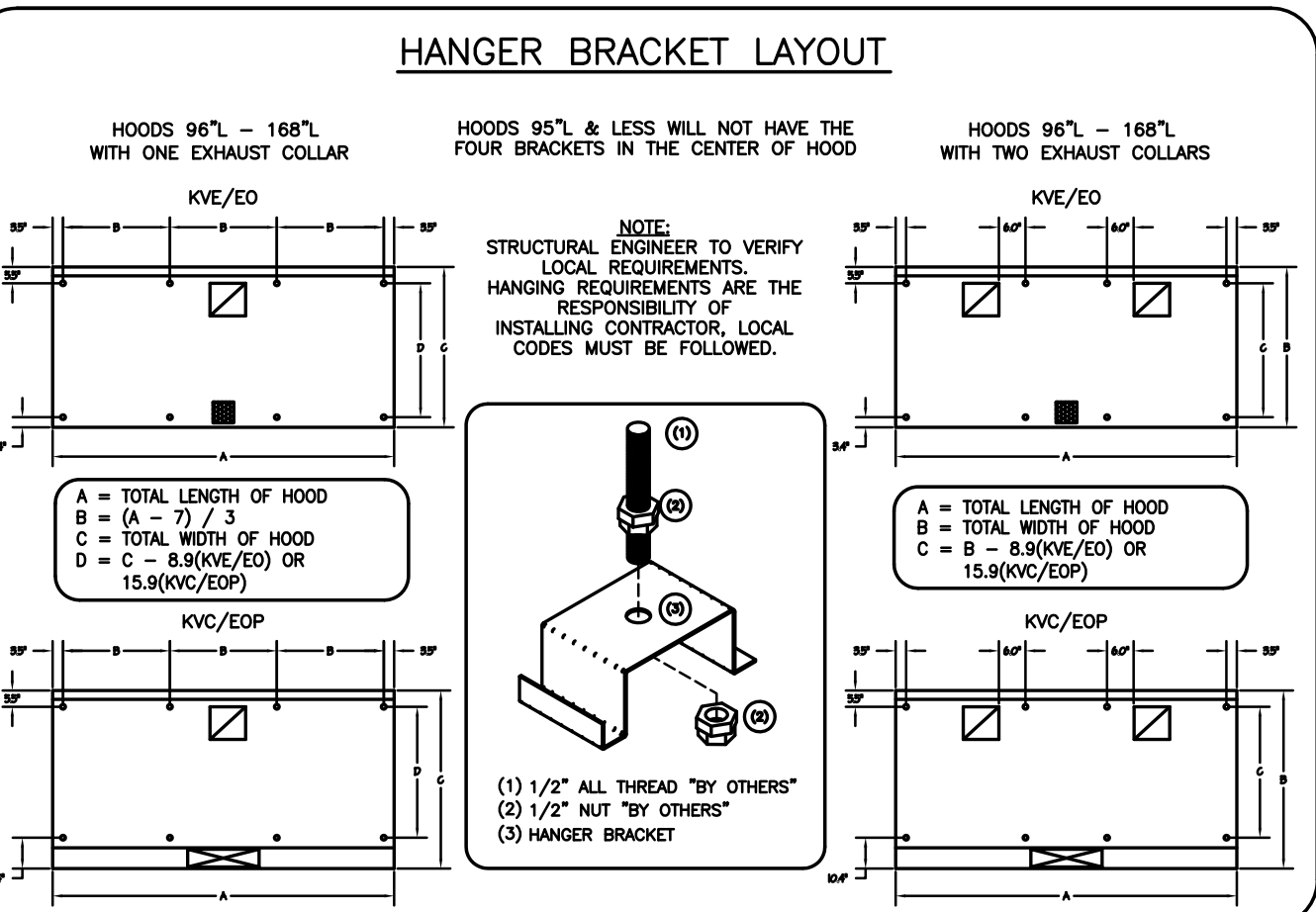
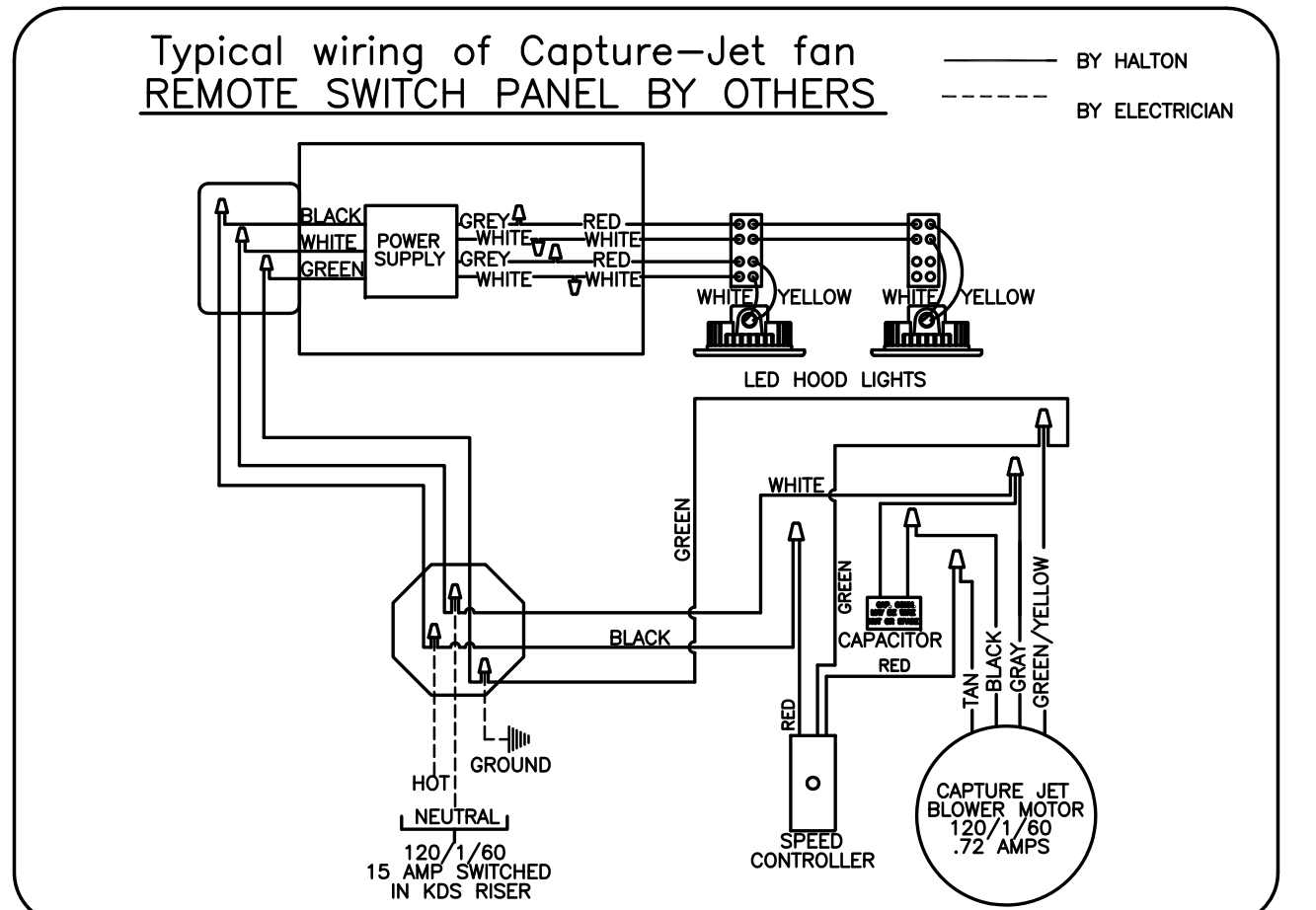
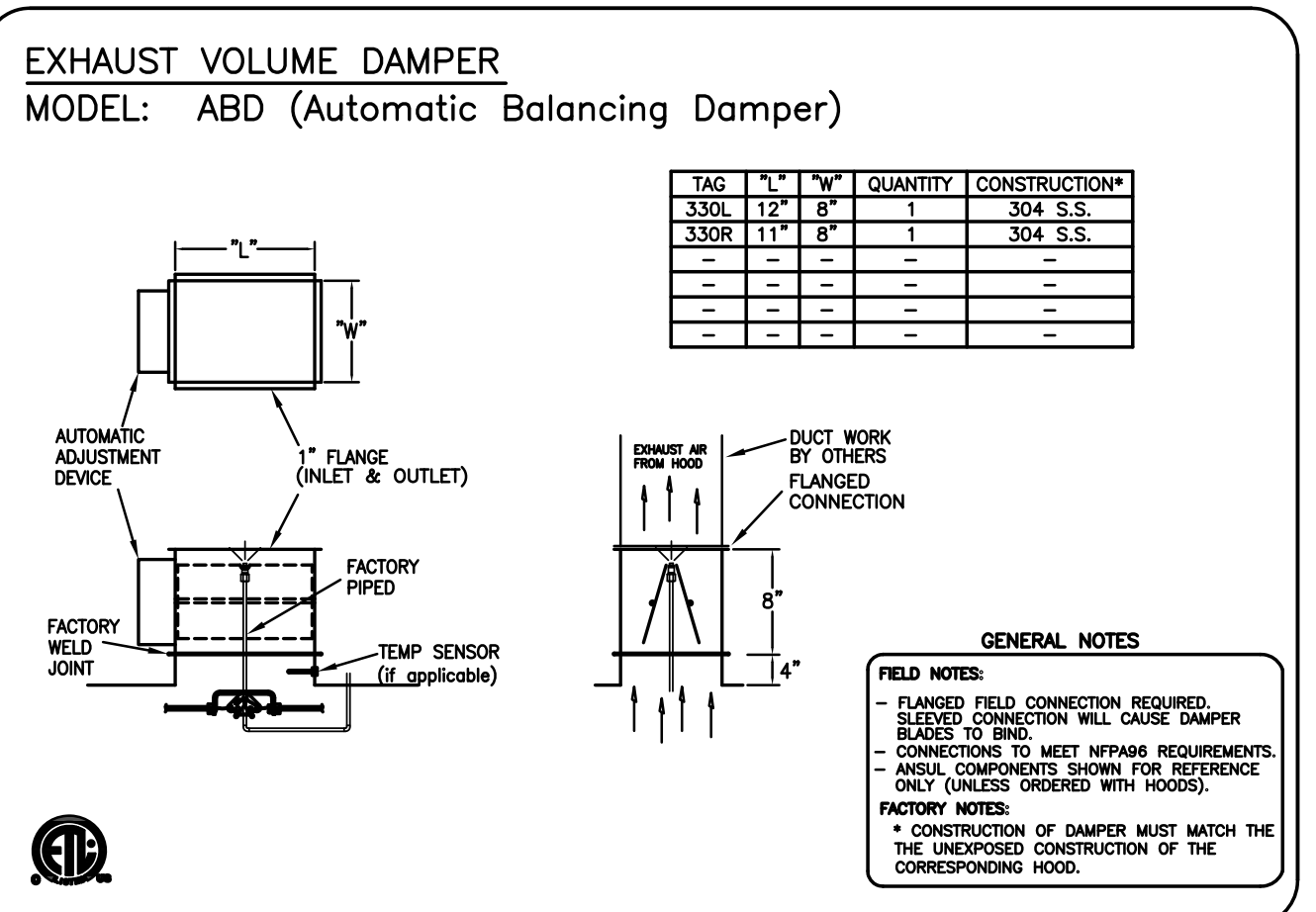
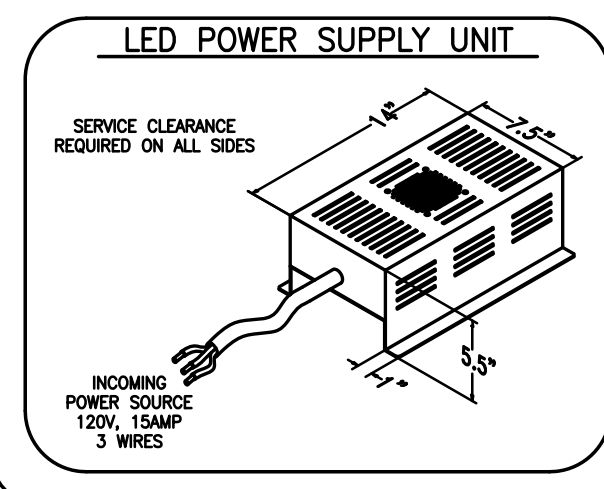
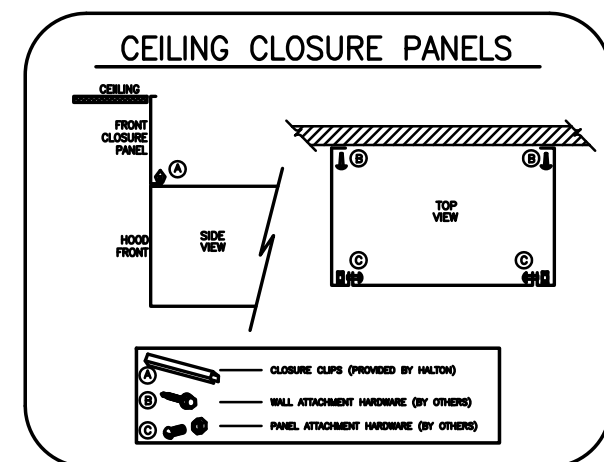


NOTE  
HOODS TO BE FURNISHED  
BY USING AGENCY AND  
BE INSTALLED BY GC.

- ### GENERAL SPECIFICATIONS
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONNEL AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LADEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

- ### INSTALLATION REQUIREMENTS
- #### KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTIONS.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

- #### ELECTRICAL CONTRACTOR'S REQUIREMENTS
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.
- ### ELECTRICAL EQUIPMENT REQUIREMENTS
- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .67 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA
  - CAPTURE JET FAN= .72 AMP EA
  - \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*
  - \*\*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*
- #### CEILING HEIGHT NOTE
- IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.
- FINISHED CEILING HEIGHT A.F.F.:



### PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE EXTRACTION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

THIS DRAWING MUST BE SIGNED, SEALED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING INFORMATION:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE: TO AVOID COLLISIONS WITH ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECIRCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

REVISION AND RESUBMIT  WITH CHANGES AS NOTED  
APPROVED FOR FABRICATION  WITH NO CHANGES

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:	WEBSITE: WWW.HALTONCOMPANY.COM
HALTON CO. (CANADA)	HALTON CO. (USA)
1021 BREWIK PLACE	101 INDUSTRIAL DRIVE
MISSISSAUGA, ON L4W 3R7	SCOTTSDALE, KY 42164
1-905-624-0301	1-270-237-5600
REVISION DESCRIPTION	BY DATE
1 REVISED HOOD TO 2 SECTIONS	WU 01.24.14
2 ADDED NOTE	WU 04.09.14
3 REMOVED LIGHT SWITCH FROM HOOD	WU 06.03.14
4 REMOVED MIA	WU 08.07.14
5 REVISED COLLAR OUT REAR OF HOOD	WU 10.28.14
6	
7	

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU DATE: 12.04.12  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING NO.: U12-718  
REV. NO.: 5 SHEET NO.: 5 of 8

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		DRAWN	PREPARED
NO.	DESCRIPTION	DATE	OFF.
1	Issued for Construction	07/31/15	XXX
2			XXX
3			XXX
4			XXX
5			XXX

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

CHOCOLATE and SUGAR LAB  
ISSUED FOR CONSTRUCTION

HALTON - PLANS and DETAILS #330

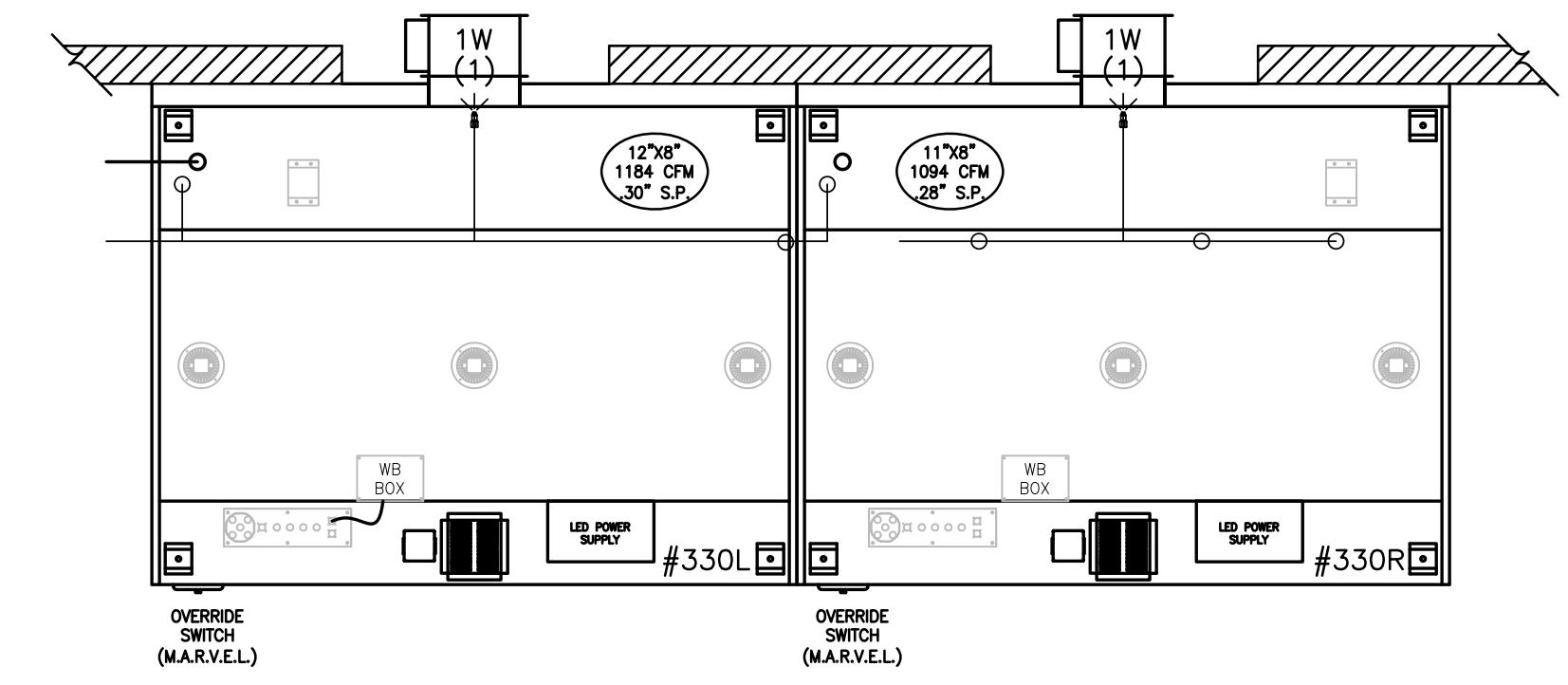
CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE

PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. FSE-81 OF SHEETS

RECOMMENDED PIPING  
 FIRE SYSTEM TO BE FURNISHED AND INSTALLED  
 IN THE FIELD BY THE GC'S FIRE SYSTEM  
 INSTALLATION CONTRACTOR. THIS SHEET  
 CONTAINS HALTONS RECOMMENDED  
 PIPING DETAILS

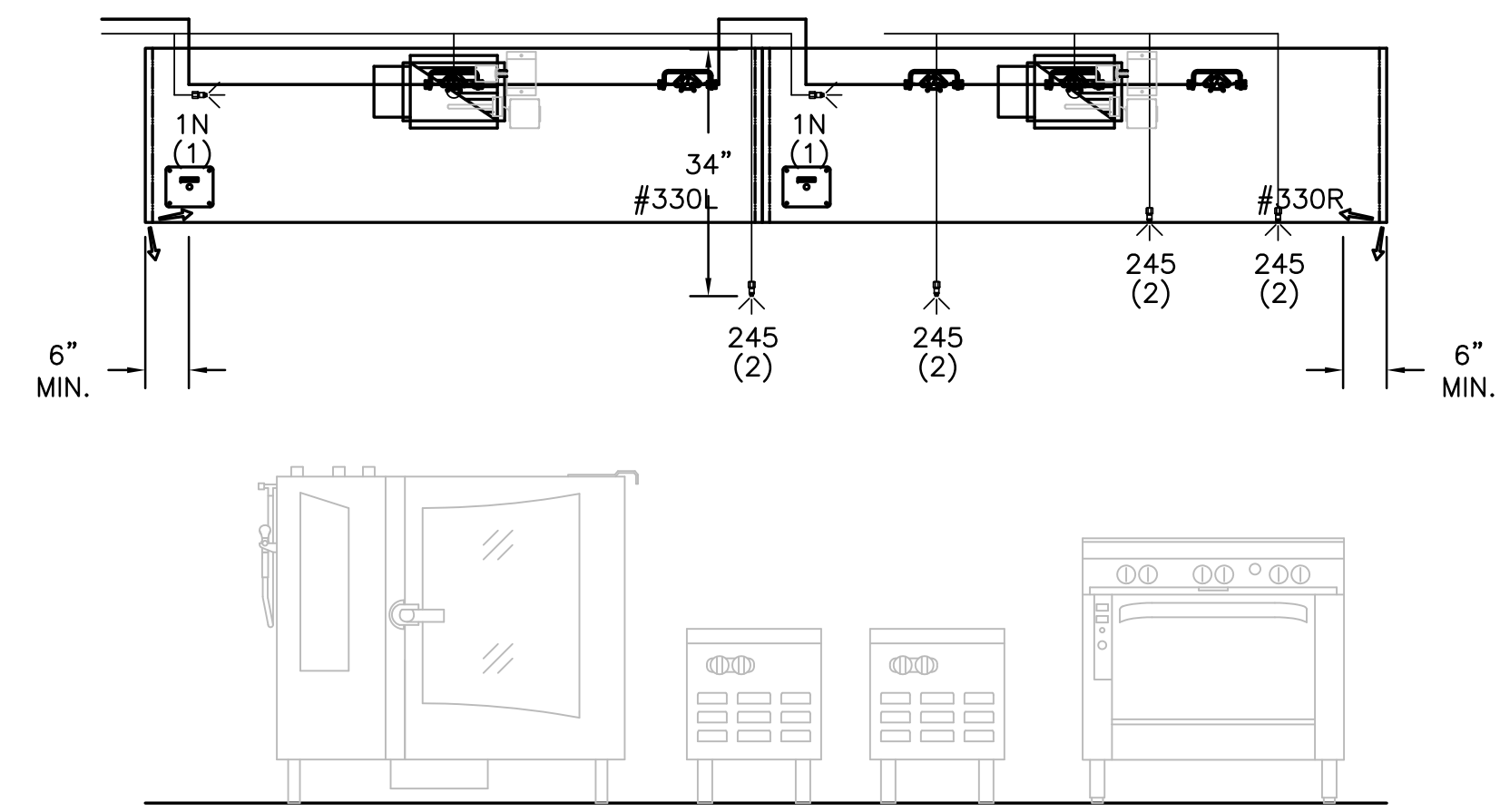
4TH FLR 100-300

BAKERY 2

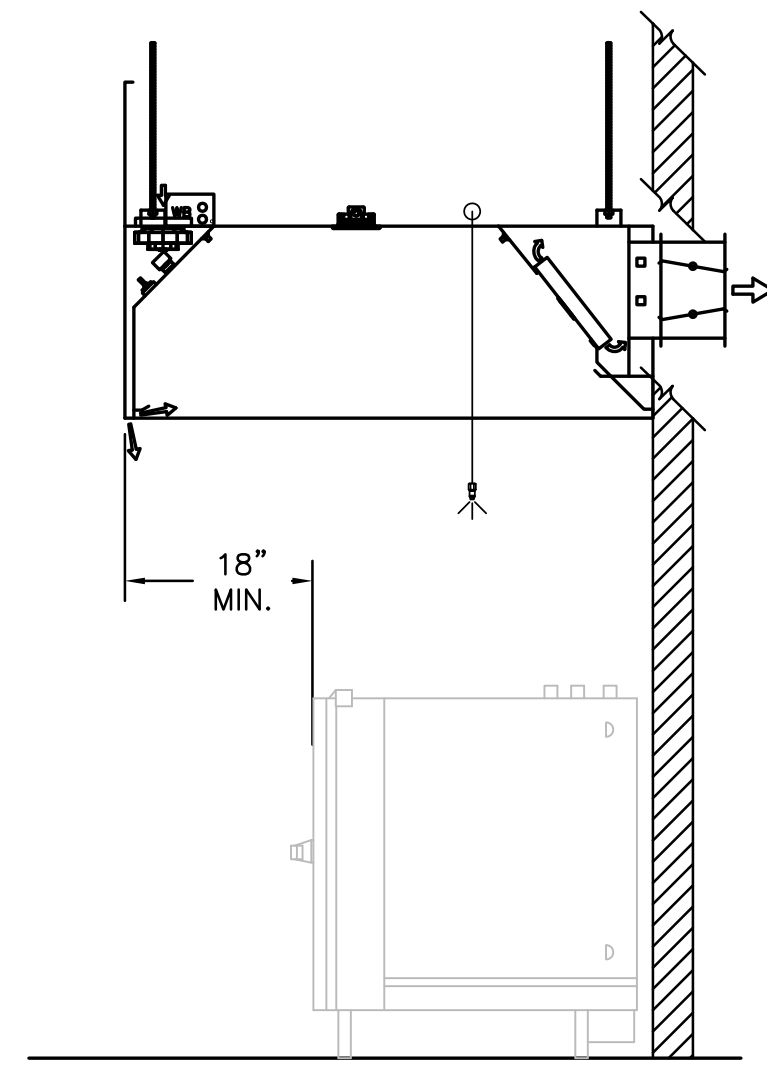


3

1 ITEM # 330  
 PLAN VIEW



2 ITEM # 330  
 ELEVATION VIEW



3 ITEM # 330  
 SECTION VIEW

- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

NOTE  
 HOODS TO BE FURNISHED  
 BY USING AGENCY AND  
 BE INSTALLED BY GC.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE REFER TO THE FOLLOWING INFORMATION FOR ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.

2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE: TO APPROXIMATE COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

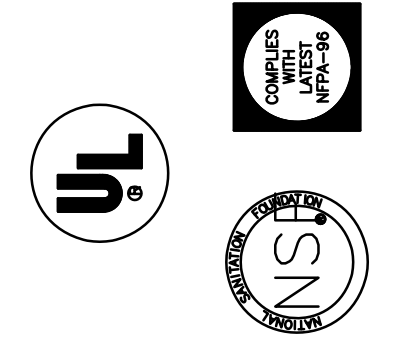
REVERSE AND RESUBMIT

APPROVED FOR FABRICATION

WITH NO CHANGES

WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED HOOD TO 2 SECTIONS	WU	01.24.14
2	NO CHANGE	WU	04.09.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4	REMOVED MIA	WU	08.07.14
5	REVISED COLLAR OUT REAR OF HOOD	WU	10.28.14
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.04.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-718
REV. NO.:	5
SHEET NO.:	6 of 8



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**KJWW** K.J.W. ENGINEERING  
 1100 WARRENVILLE ROAD, #400W  
 NAPERVILLE, IL 60563  
 T: 630.527.2320

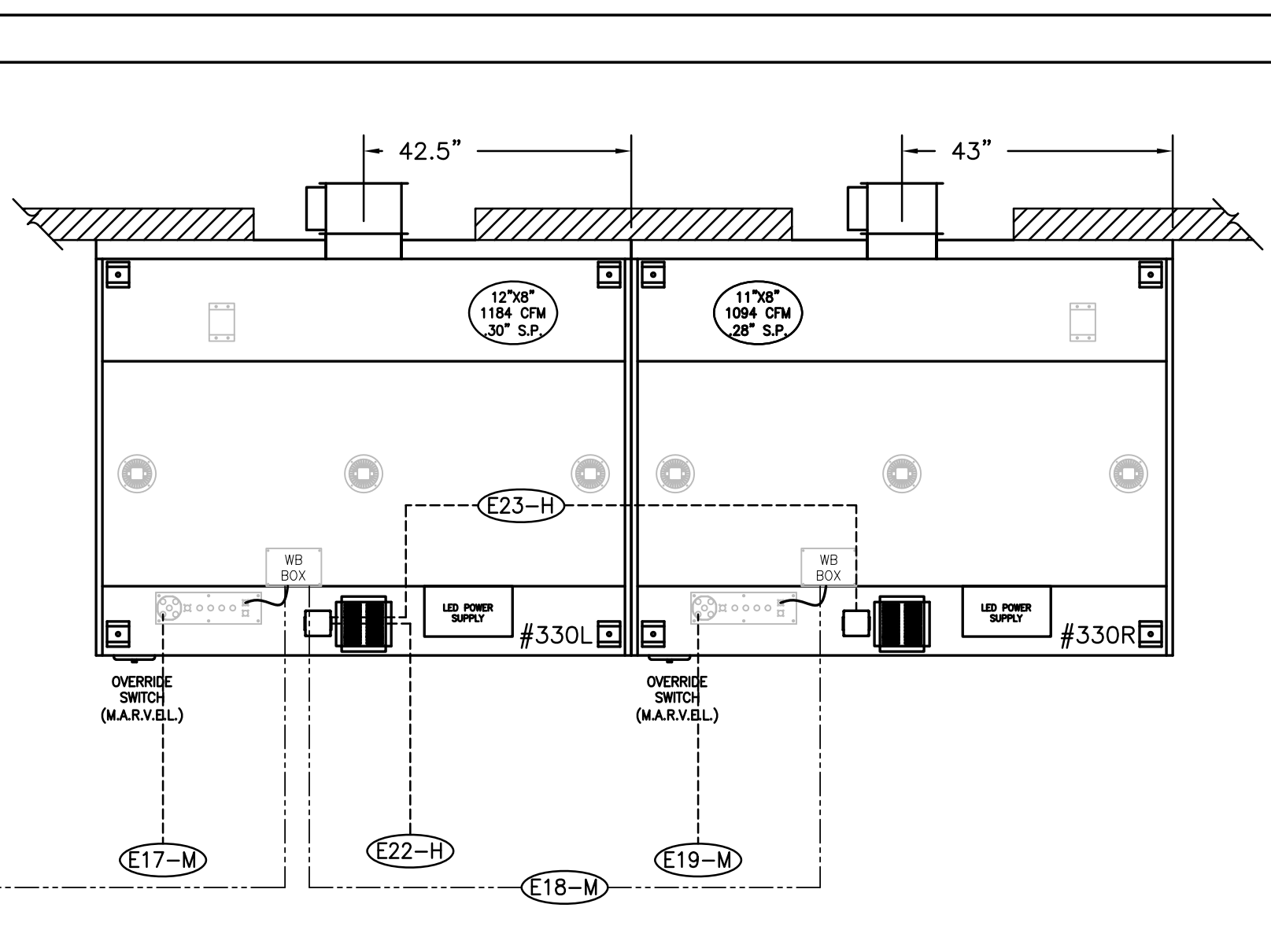
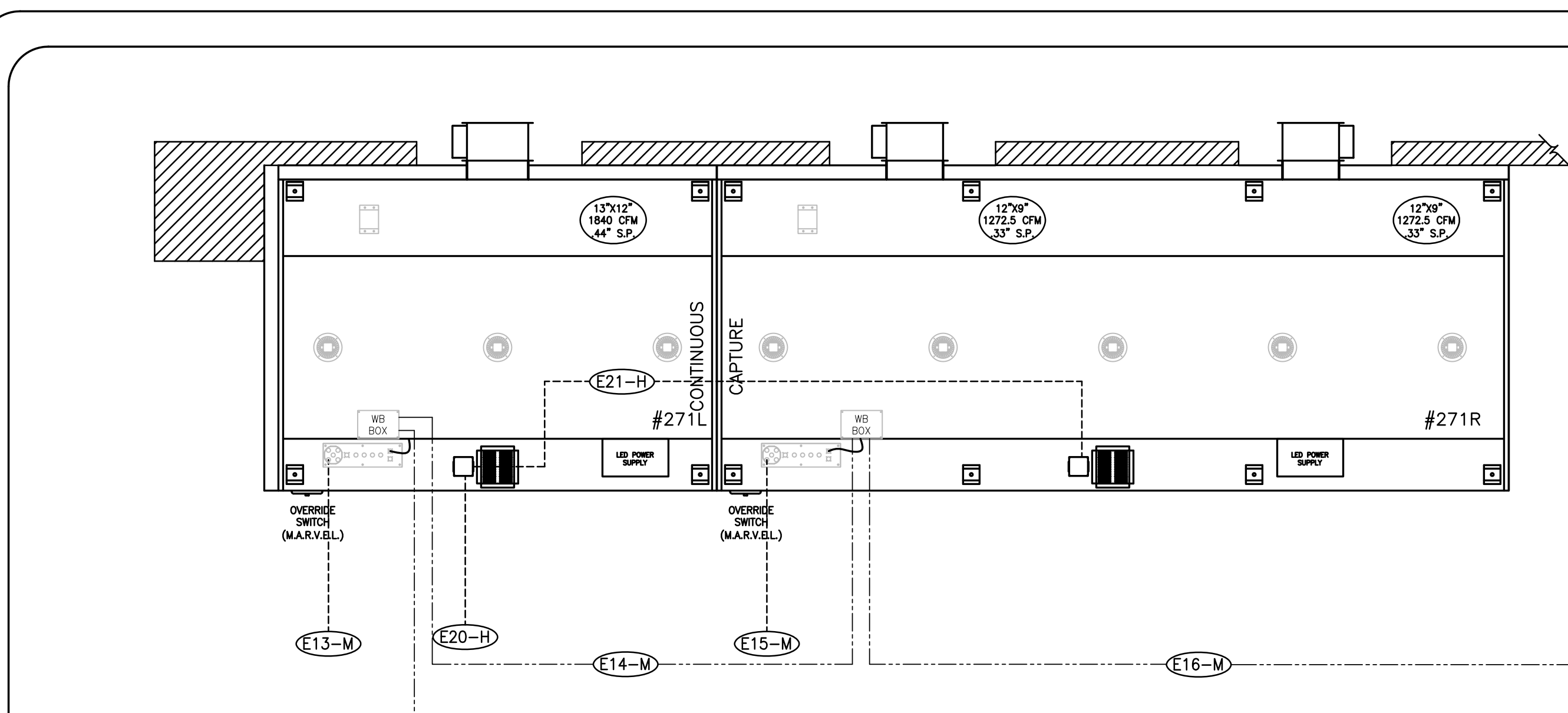
**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET  
 BIRMINGHAM, MI 48009  
 T: 248.644.0990

**CHOCOLATE and SUGAR LAB**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #331 - FIRE SYSTEM**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

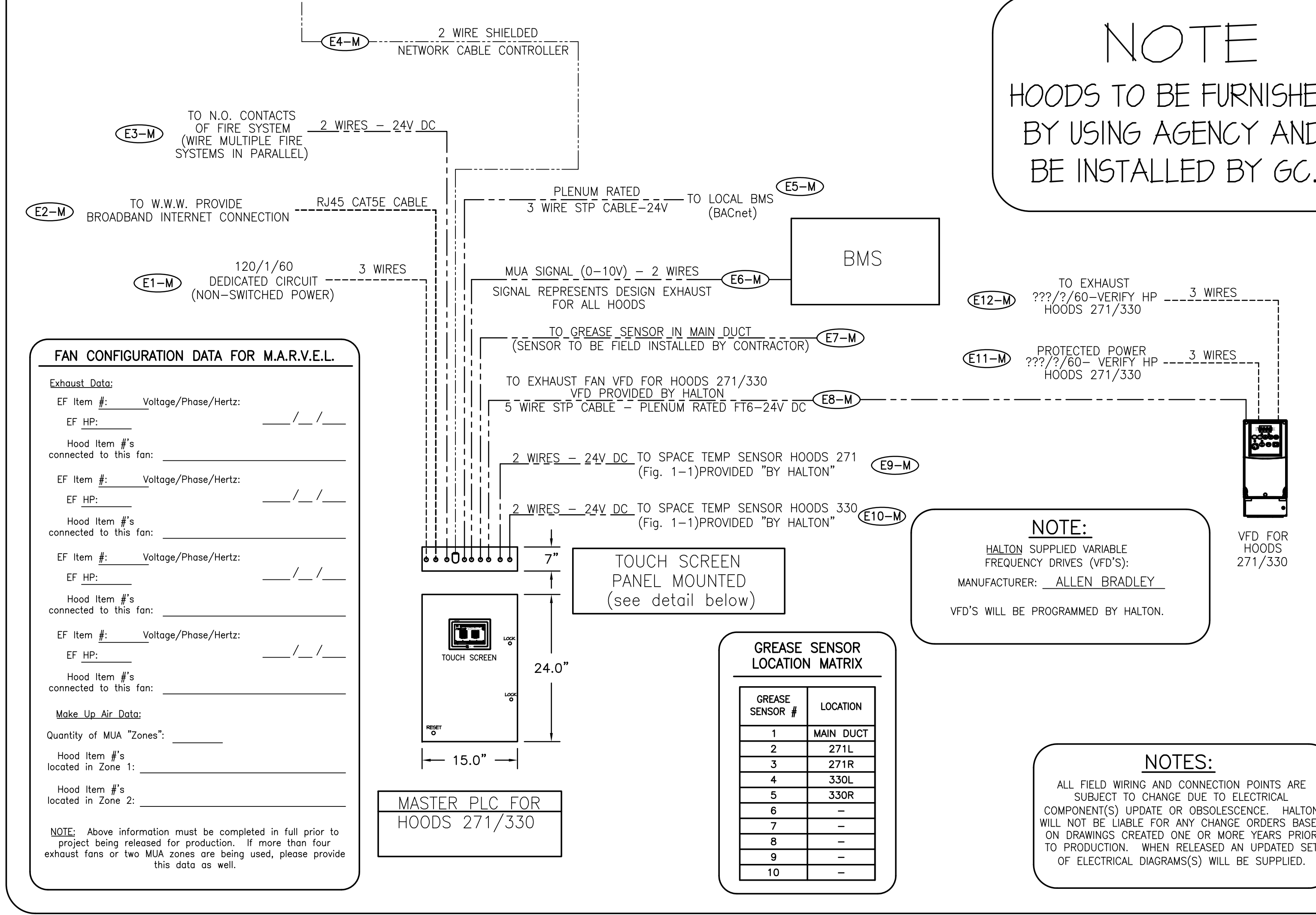
PROJECT NO. CDB 810-048-023  
 DATE DEC. 12, 2014  
 SHEET NO. **FSE-82** OF SHEETS





**NOTE**  
HOODS TO BE FURNISHED  
BY USING AGENCY AND  
BE INSTALLED BY GC.

**4TH FLR 100-300**  
**BAKERY 2**



**ELECTRICAL & DATA CABLE CONNECTION SCHEDULE**

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-M	120V, 15AMP - CONTROL PANEL POWER - 3 WIRES	BUILDING SOURCE	CONTROL PANEL
E2-M	BROADBAND INTERNET CONNECTION	BUILDING SOURCE	CONTROL PANEL
E3-M	FIRE MODE SIGNAL - TO FIRE SUPPRESSION PANEL - 2 WIRES	CONTROL PANEL	FIRE SYSTEM
E4-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	CONTROL PANEL	HOOD #271L
E5-M	3 WIRES STP CABLE - PLENUM RATED - TO BMS(BACNET)	CONTROL PANEL	BMS
E6-M	0-10V MUA SIGNAL TO BMS - 2 WIRES	CONTROL PANEL	BMS
E7-M	FIELD CONNECTION FOR MAIN DUCT GREASE SENSOR - 3 WIRES	CONTROL PANEL	GREASE SENSOR
E8-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD
E9-M	2 WIRES TO SPACE TEMPERATURE SENSOR	CONTROL PANEL	TEMP SENSOR
E10-M	2 WIRES TO SPACE TEMPERATURE SENSOR	CONTROL PANEL	TEMP SENSOR
E11-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD
E12-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR
E13-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #271L
E14-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #271L	HOOD #271R
E15-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #271R
E16-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #271R	HOOD #330L
E17-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #330L
E18-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #330L	HOOD #330R
E19-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #330R
E20-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #271L
E21-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #271L	HOOD #271R
E22-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #330L
E23-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #330L	HOOD #330R

**NOTE:**  
HALTON SUPPLIED VARIABLE  
FREQUENCY DRIVES (VFD'S);  
MANUFACTURER: ALLEN BRADLEY  
VFD'S WILL BE PROGRAMMED BY HALTON.

**NOTES:**  
ALL FIELD WIRING AND CONNECTION POINTS ARE  
SUBJECT TO CHANGE DUE TO ELECTRICAL  
COMPONENTS) UPDATE OR OBSOLETE. HALTON  
WILL NOT BE LIABLE FOR ANY CHANGE ORDERS BASED  
ON DRAWINGS CREATED ONE OR MORE YEARS PRIOR  
TO PRODUCTION, WHEN RELEASED AN UPDATED SET  
OF ELECTRICAL DIAGRAM(S) WILL BE SUPPLIED.

**M.A.R.V.E.L. SCOPE OF WORK**

RESPONSIBILITY TO BE SELECTED BY GENERAL CONTRACTOR

**DEFINITIONS FOR REFERENCE:**

M.A.R.V.E.L. I SYSTEMS = 1 EXHAUST FAN SERVING 1 KITCHEN HOOD

M.A.R.V.E.L. II SYSTEMS = 1 EXHAUST FAN SERVING MULTIPLE KITCHEN HOODS

VFD = VARIABLE FREQUENCY DRIVES

CONNECTION LOCATIONS WILL VARY PER SYSTEM, REFER TO HALTON M.A.R.V.E.L. DIAGRAMS FOR SPECIFICS

- APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE M.A.R.V.E.L. CONTROL PANEL. LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN SAME SPACE AS THE KITCHEN HOODS BEING SERVED BY PANEL. (M.A.R.V.E.L. I HOOD SYSTEMS WILL NOT HAVE SUCH PANEL)
- APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT M.A.R.V.E.L. CONTROL PANEL
- APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL R44S CATSE CABLE CONNECTION AT M.A.R.V.E.L. CONTROL PANEL FOR M.A.R.V.E.L. I SYSTEMS OR AT KITCHEN HOOD FOR M.A.R.V.E.L. I SYSTEMS FOR I.P. ADDRESS.
- APPLICABLE CONTRACTOR TO INSTALL SPACE TEMP SENSOR (SUPPLIED BY HALTON) IN SAME SPACE AS KITCHEN HOOD SYSTEM AND 48"-54" A.F.F. HIGHEST MIN T-STAT
- APPLICABLE CONTRACTOR SHALL SUPPLY AND RUN 2 WIRE 24V DC CONNECTION FROM SPACE TEMP SENSOR TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR TO KITCHEN HOOD (M.A.R.V.E.L. I)
- APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE 24V DC WIRING FROM ANSUL FIRE SYSTEM EITHER TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR TO KITCHEN HOOD (M.A.R.V.E.L. I)
- APPLICABLE CONTRACTOR SHALL CONNECT 2 WIRE COMMUNICATION CABLES (SUPPLIED BY HALTON) FROM HOOD TO HOOD AND TO PANEL AS SHOWN IN HALTON M.A.R.V.E.L. DIAGRAM
- APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE MUA SIGNAL (0-10V) FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO BMS OR DDC
- APPLICABLE CONTRACTOR TO SUPPLY AND RUN 5 WIRE STP PLENUM RATED CABLE FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO EXHAUST FAN VFD(S) (VFD'S AND CABINET SUPPLIED BY HALTON UNLESS OTHERWISE NOTED)
- APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE VFD(S). LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN 150 FEET MAX DISTANCE FROM EXHAUST FAN(S)
- APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FEED FROM CIRCUIT BREAKER(S) TO VFD(S). APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FEED FROM VFD(S) TO EXHAUST / MUA (IF APPLICABLE) MOTORS. ALL TO BE RAN IN SEPARATE CONDUIT.
- APPLICABLE CONTRACTOR SHALL INSTALL GREASE SENSOR(S) IN MAIN EXHAUST TRUNK, AND WIRE THE SENSOR BACK TO THE DESIGNATED LOCATION.
- APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT EACH KITCHEN HOOD. (IF HOODS ARE LV, A SECOND 115V DEDICATED CIRCUIT IS REQUIRED.)
- INSTALLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING ADEQUATE ACCESS TO ALL COMPONENTS LOCATED ABOVE HOOD.
- HALTON REPRESENTATIVE TO PERFORM FINAL FIELD COMMISSIONING ONCE ALL RESPONSIBILITIES ARE COMPLETED ABOVE.

**NOTES:**  
ALL WIRING AND CABLEING TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS STATED OTHERWISE

**NOTES:**  
ALL FAN MOTORS MUST BE COMPATIBLE WITH VARIABLE FREQUENCY DRIVES (VFD'S). MOTORS THAT ARE 1 HP AND ABOVE MUST BE CONNECTED TO THREE PHASE POWER.

**NOTES:**  
ALL VARIABLE FREQUENCY DRIVES (VFD'S) MUST BE INSTALLED WITHIN 150' OF THE EXHAUST FAN.

**FAN CONFIGURATION DATA FOR M.A.R.V.E.L.**

Exhaust Data:

EF Item #: Voltage/Phase/Hz: / / /

EF HP: / / /

Hood Item #'s connected to this fan: / / /

EF Item #: Voltage/Phase/Hz: / / /

EF HP: / / /

Hood Item #'s connected to this fan: / / /

EF Item #: Voltage/Phase/Hz: / / /

EF HP: / / /

Hood Item #'s connected to this fan: / / /

EF Item #: Voltage/Phase/Hz: / / /

EF HP: / / /

Hood Item #'s connected to this fan: / / /

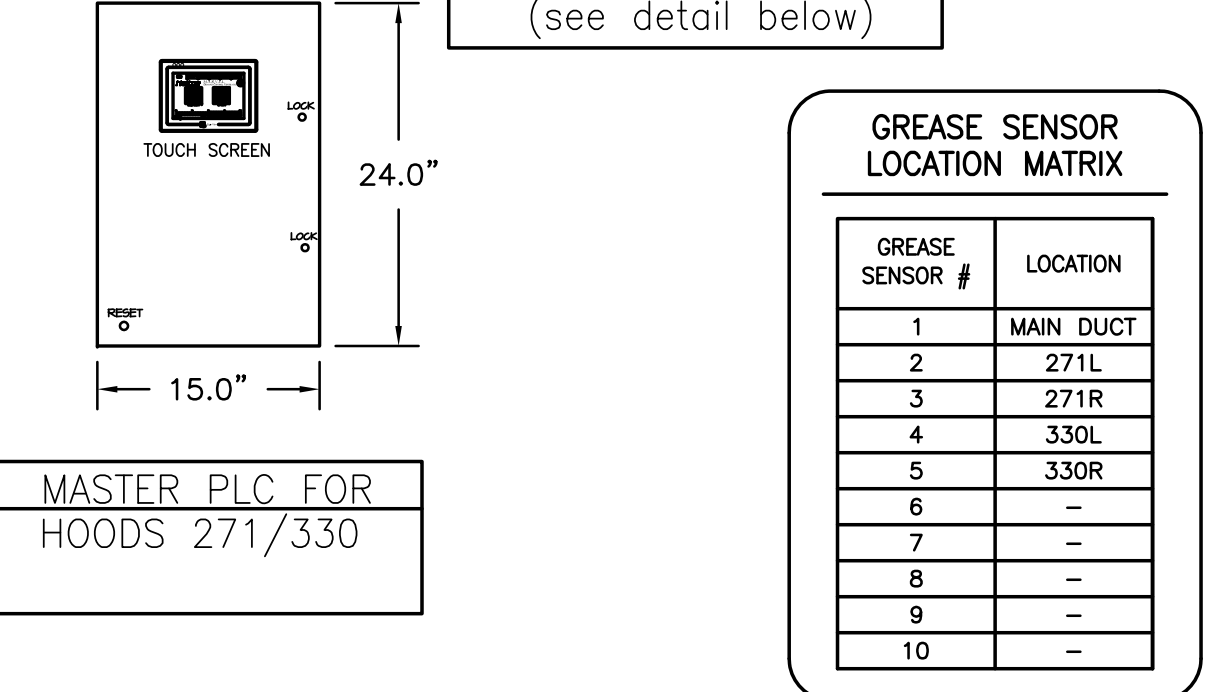
Make Up Air Data:

Quantity of MUA "Zones": / / /

Hood Item #'s located in Zone 1: / / /

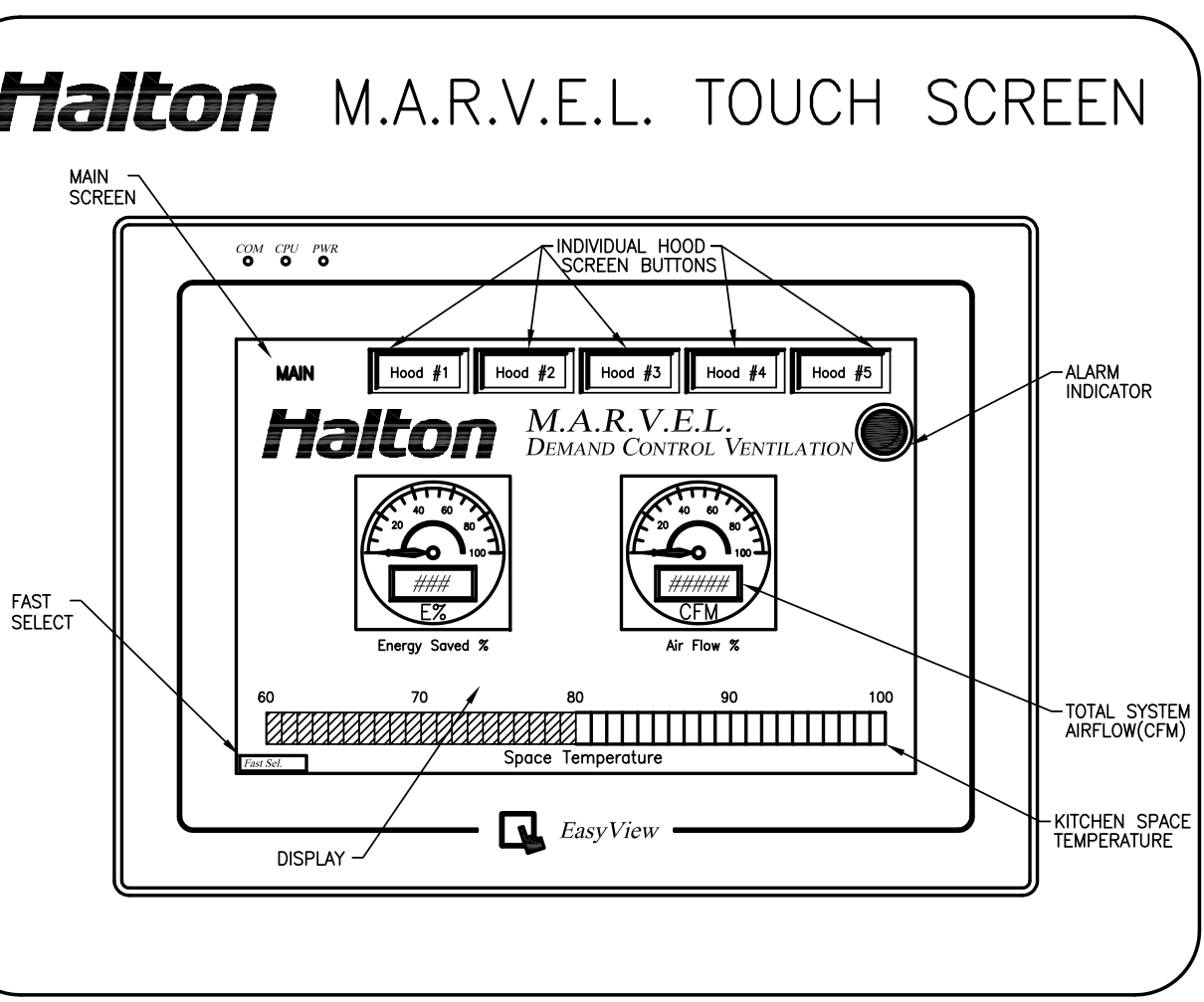
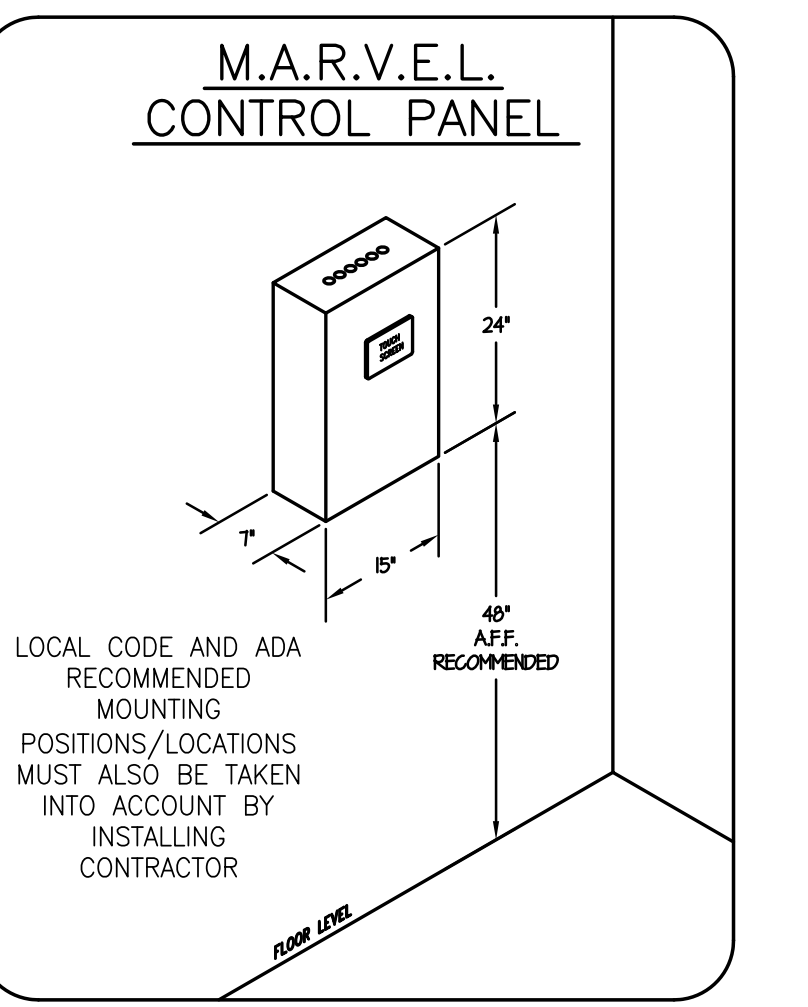
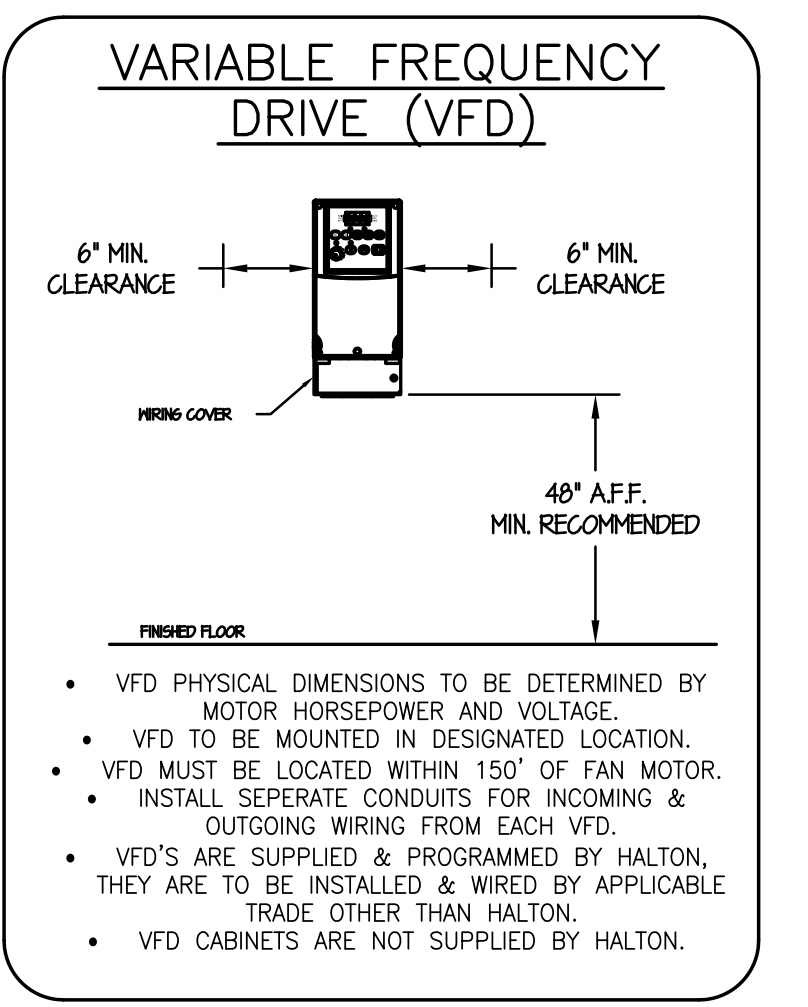
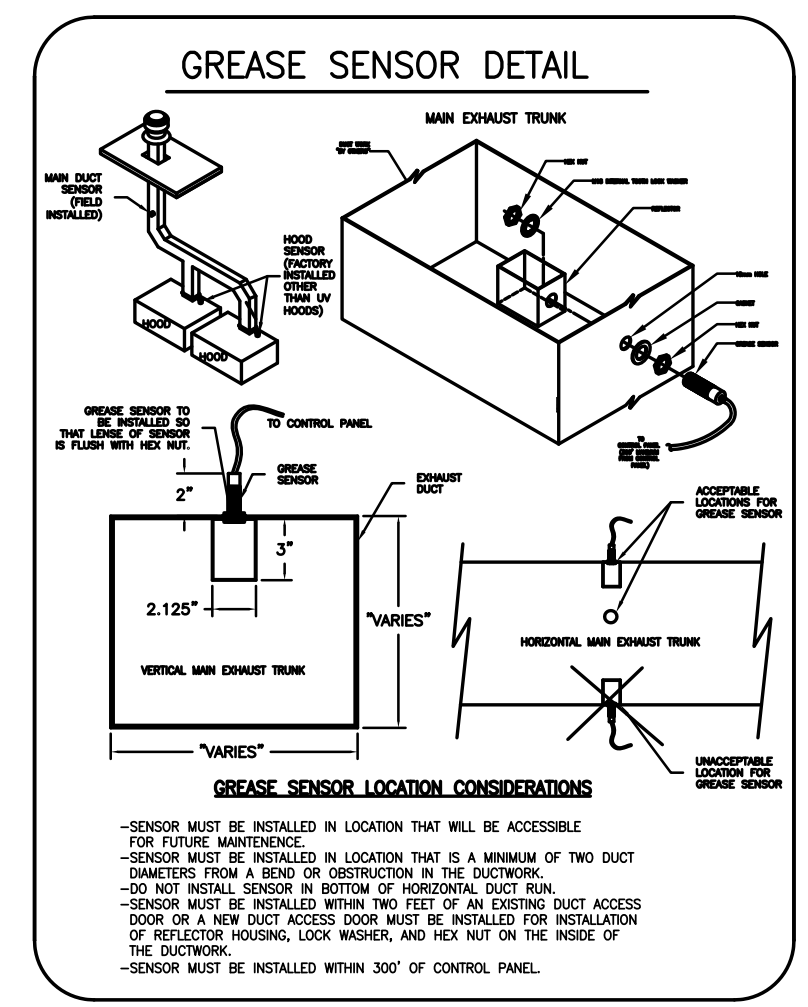
Hood Item #'s located in Zone 2: / / /

**NOTE:** Above information must be completed in full prior to project being released for production. If more than four exhaust fans or two MUA zones are being used, please provide this data as well.



**GREASE SENSOR LOCATION MATRIX**

GREASE SENSOR #	LOCATION
1	MAIN DUCT
2	271L
3	271R
4	330L
5	330R
6	-
7	-
8	-
9	-
10	-



**M.A.R.V.E.L. SYSTEM**

**M.A.R.V.E.L. EQUIPMENT CONNECTED LOADS**

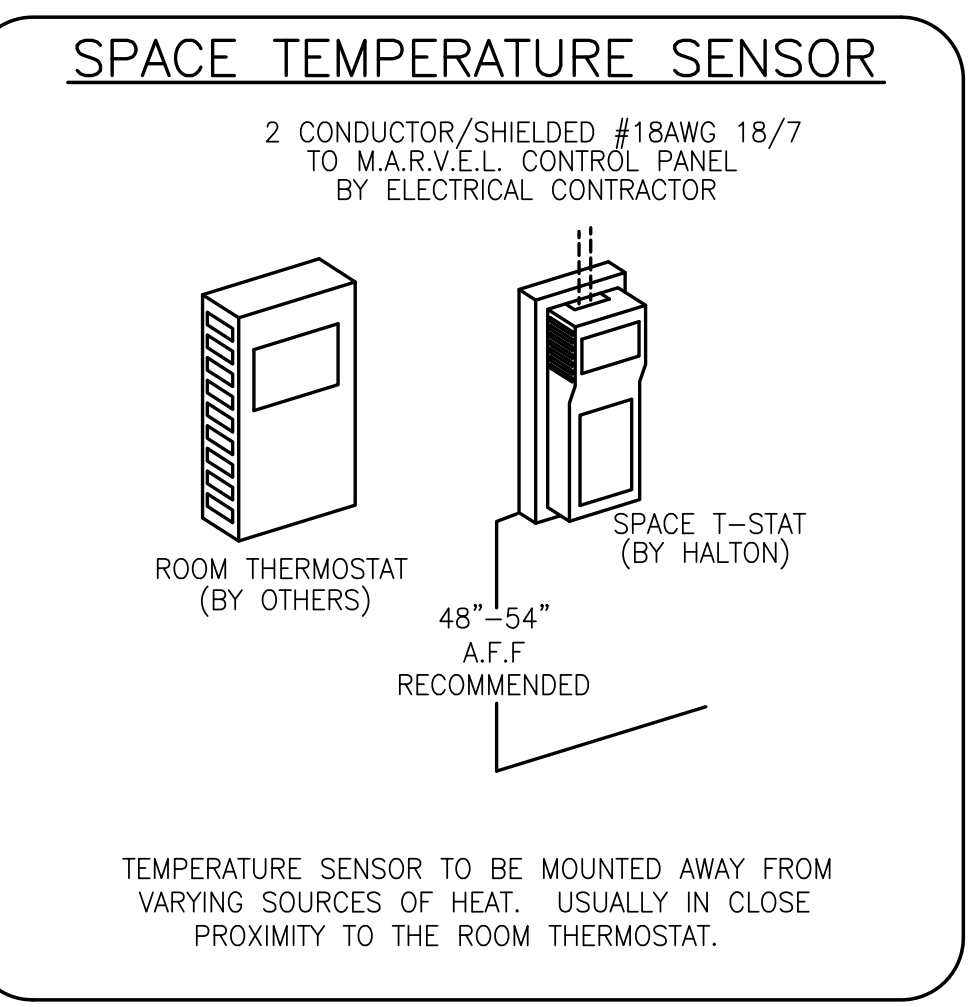
M.A.R.V.E.L. CONTROL PANEL = 10 AMPS EA.

M.A.R.V.E.L. PLC AT EACH HOOD SECTION = 4 AMPS EA.

**\*\*ALL CIRCUITS ARE NOT TO EXCEED 15 AMP\*\***

**NOTES:**

- FIELD WIRING (BY E.C.) - 120V - 12AWG MIN.-10AWG MAX.
- FIELD WIRING (BY E.C.) - 24V - 22AWG MIN.-16AWG MAX.
- SHIELDED NETWORK CABLES - PROVIDED BY HALTON FIELD INSTALLED BY OTHERS



**NOTE:** CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN: XXX  
 PREPARED: XXX  
 APPROVED: XXX  
 CHECKED: XXX  
 APPROVED: EFW

**dkA DEMONICA KEMPER ARCHITECTS**  
125 N. HALSTED STREET, SUITE 301, CHICAGO, IL 60661, P: 312.496.0000

**KJWW KJWW ENGINEERING**  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563, T: 630.527.2320

**EFW E.F. WHITNEY, INC.**  
568 ANN STREET, BIRMINGHAM, MI 48009, T: 248.644.0990

**BAKERY KITCHEN 2**  
**ISSUED FOR CONSTRUCTION**  
**M.A.R.V.E.L. SYSTEM DETAILS #271**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
DATE: DEC. 12, 2014  
SHEET NO. **FSE-83** OF SHEETS

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, KY 42164  
1-270-237-5600

REVISION DESCRIPTION

REV.	BY	DATE
1	WU	01.28.14
2	WU	04.09.14
3	WU	06.03.14
4	WU	08.07.14
5	WU	10.28.14
6		

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WJ DATE: 01.28.14  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING AND CONTROL DETAILS

DRAWING NO.: U12-718  
REV. NO.: 5 SHEET NO.: 8 of 8

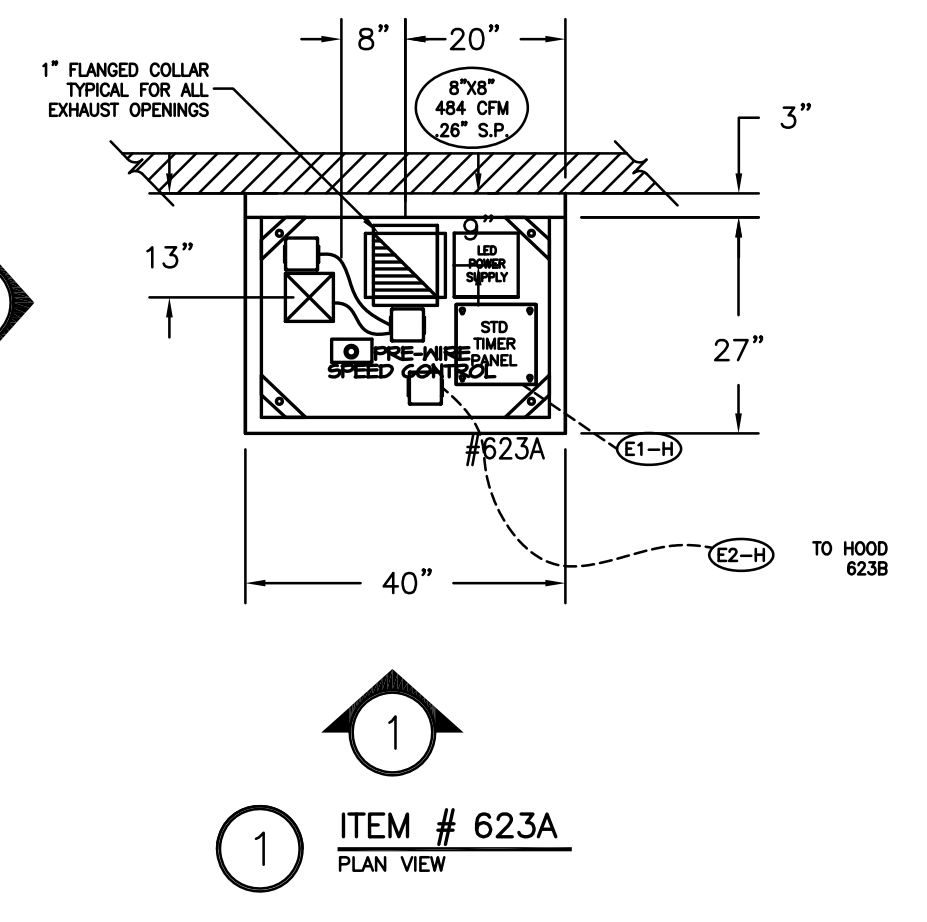
HOOD INFORMATION TABLE												
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS				GREASE EXTRACTOR			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)		
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR	QTY.	SIZE	TYPE				
623A	KVL2	484	.21"	.26"	1	8"	8"	1	20" x 13"	KSA	ALL 18GA. 304 S.S.	260
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL EXH. CFM = 484												

ELECTRICAL CONNECTION SCHEDULE			
CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-H	120V, 15AMP - TIMER/LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD 623A
E2-H	FIELD CONNECTION FOR TEMP SENSORS	HOOD 623A	HOOD 623B

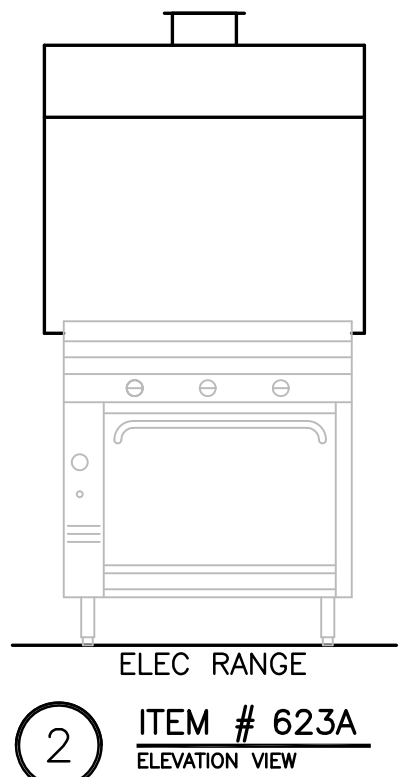
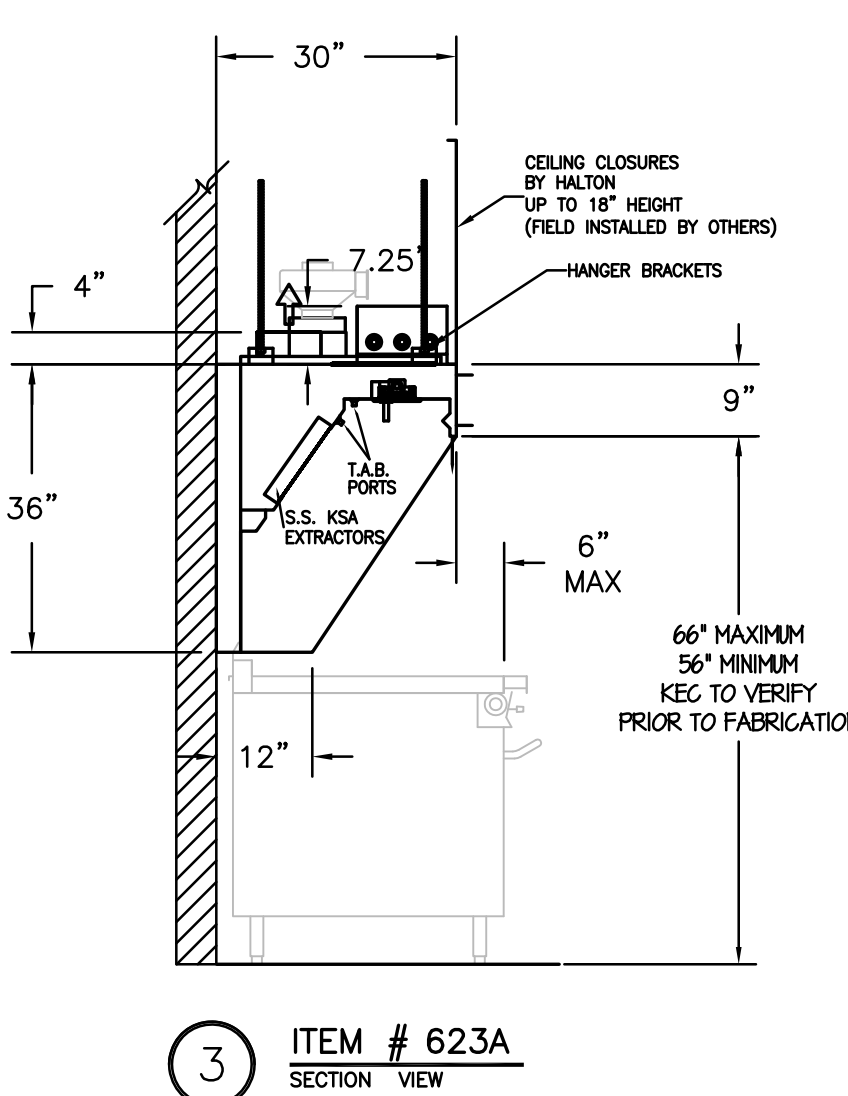
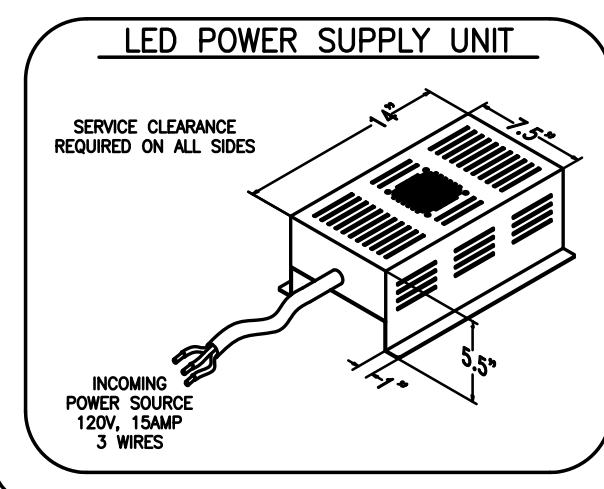
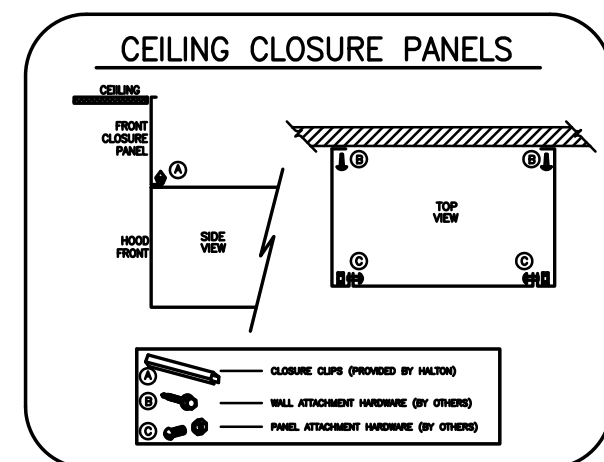
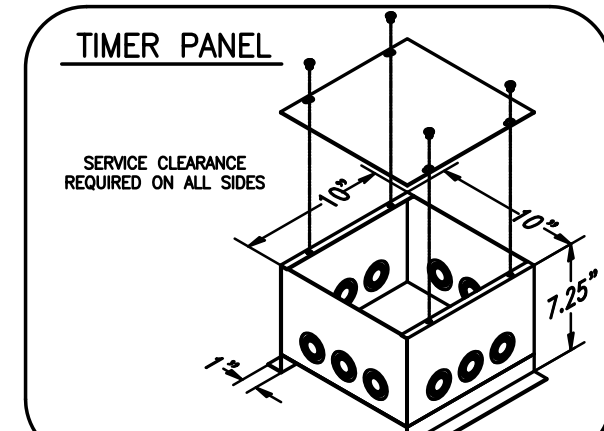
- GENERAL SPECIFICATIONS**
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAZEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

## 3RD FLR SPECIAL NEEDS 600

(5) FIVE TOTAL



**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



**Capture-Jet Fan Installation and Dimensional Data**

MODEL	AIR FLOW @ 1" SP	20"	24"	A	HP	FIA	VOLTAGE	LBS.
K4XL	30 CFM - 80 CFM	3.50"	4.0"	6.0"	11.75	120/1/60	5.6	6.6
K6XL	70 CFM - 170 CFM	13.20"	6.0"	6.0"	20	110/1/60	10.6	10.6
K8XL	100 CFM - 240 CFM	13.20"	8.0"	6.0"	20	110/1/60	11	11

PROJECT: JOLIET JUNIOR COLLEGE    DATE: 01.31.14  
LOCATION:    DWG: U12-717

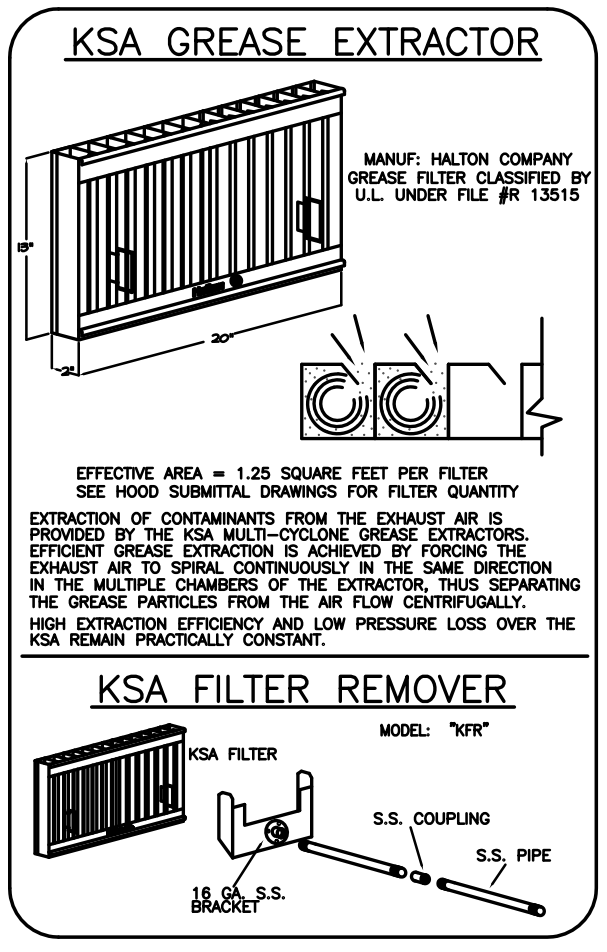
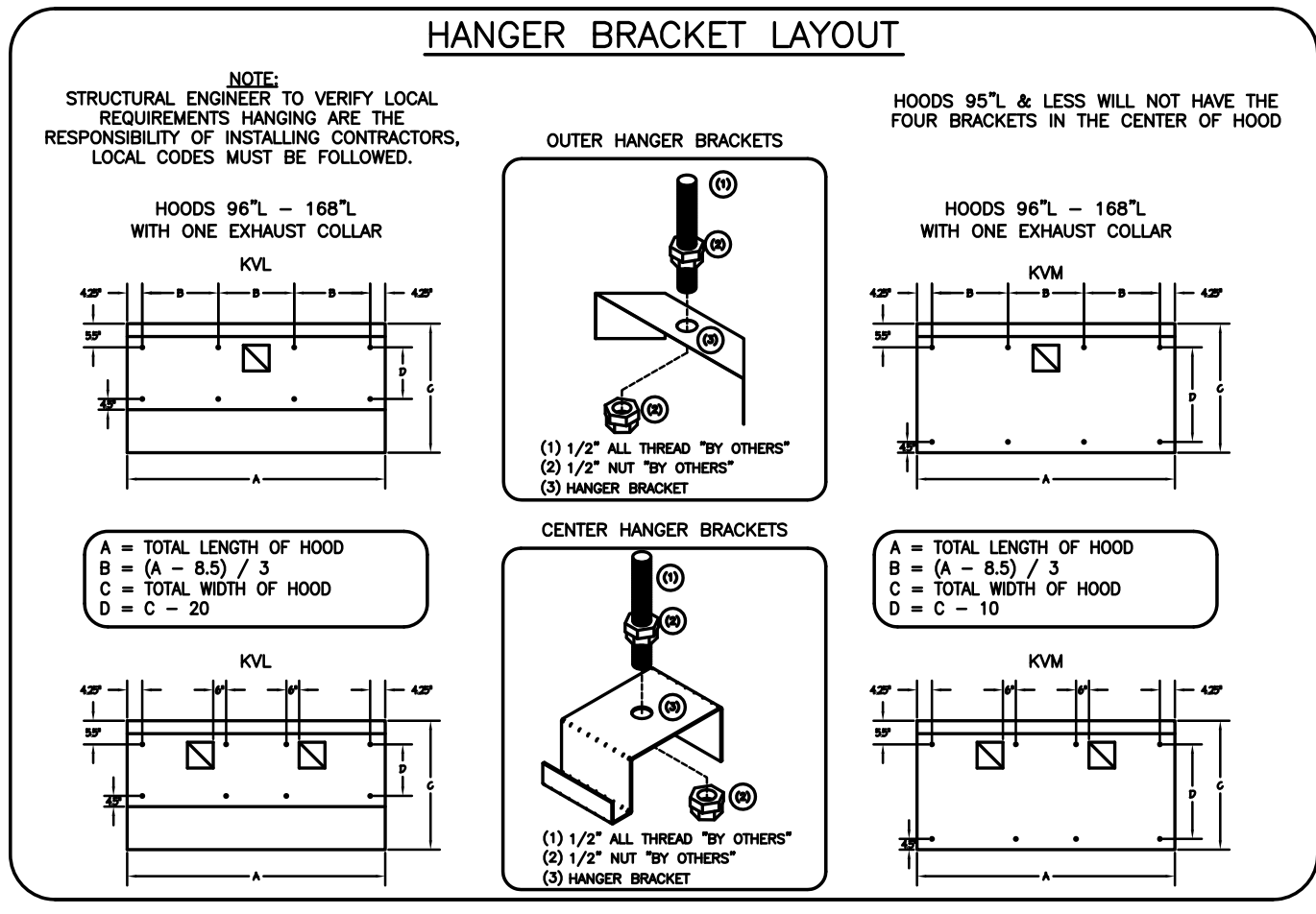
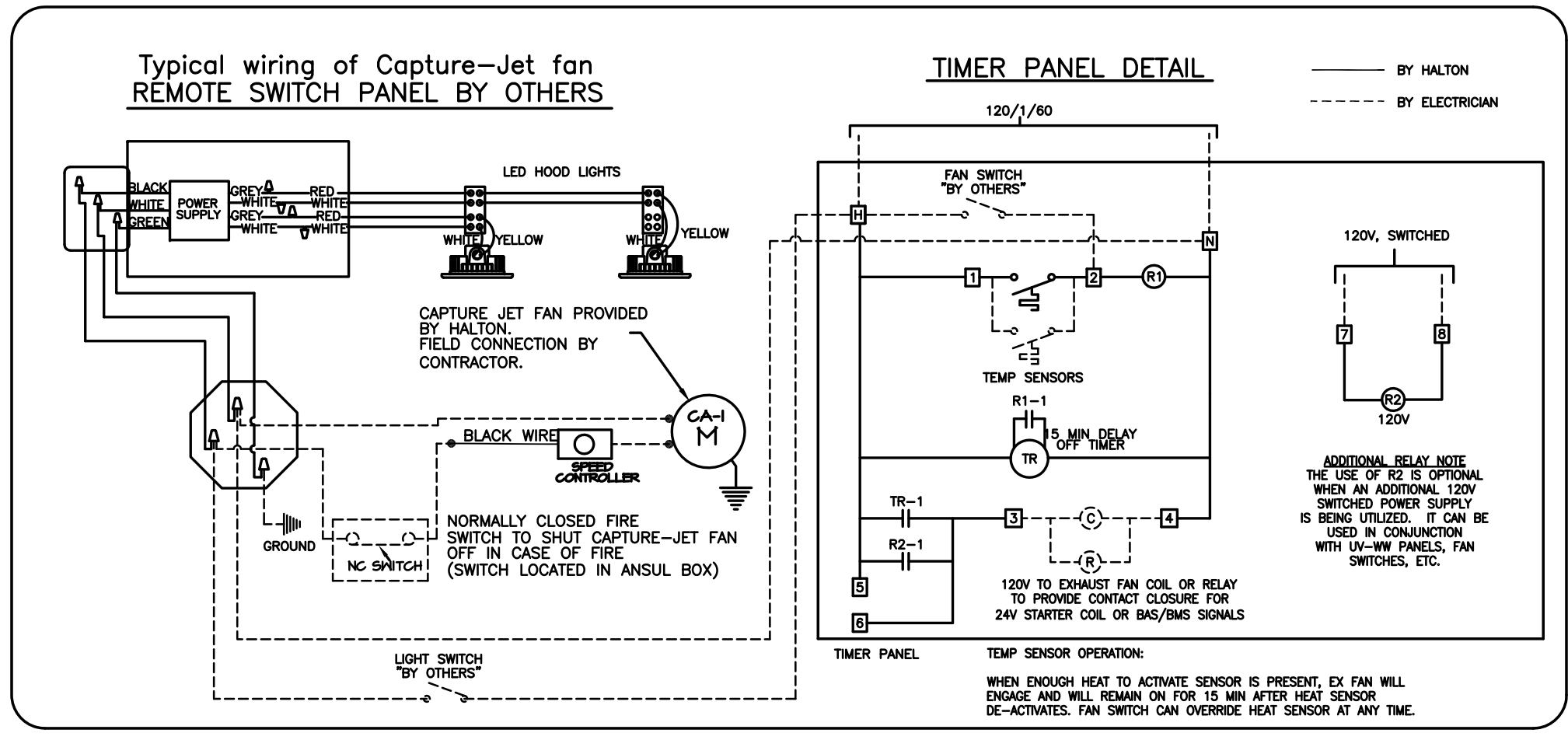
- INSTALLATION REQUIREMENTS**
- KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS**
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTIONS.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- ELECTRICAL CONTRACTOR'S REQUIREMENTS**
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

- ELECTRICAL EQUIPMENT REQUIREMENTS**
- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .67 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA.
  - CAPTURE JET FAN= .72 AMP EA.
- \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*  
ARE TO BE PROVIDED BY OTHERS\*\*

**CEILING HEIGHT NOTE**

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:



**PERFORMANCE CRITERIA**

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSVILLE, KY 42164  
1-270-237-5600

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

REVISION DESCRIPTION

REV.	BY	DATE
1	WU	01.24.14
2	WU	06.03.14
3	WU	08.07.14
4	NO CHANGE	
5		
6		
7		

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU    DATE: 12.04.12  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING No.: U12-717  
REV. NO.: 4    SHEET NO.: 3 of 14

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

NO.	DESCRIPTION	DATE
XXX	TRACED	APPROVED
XXX	CHECKED	APPROVED

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**E.F.W.** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**SPECIAL NEEDS KITCHEN  
ISSUED FOR CONSTRUCTION  
HALTON - PLANS and DETAILS #623**

**CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE**

PROJECT NO.  
CDB 810-048-023

DATE  
DEC. 12, 2014

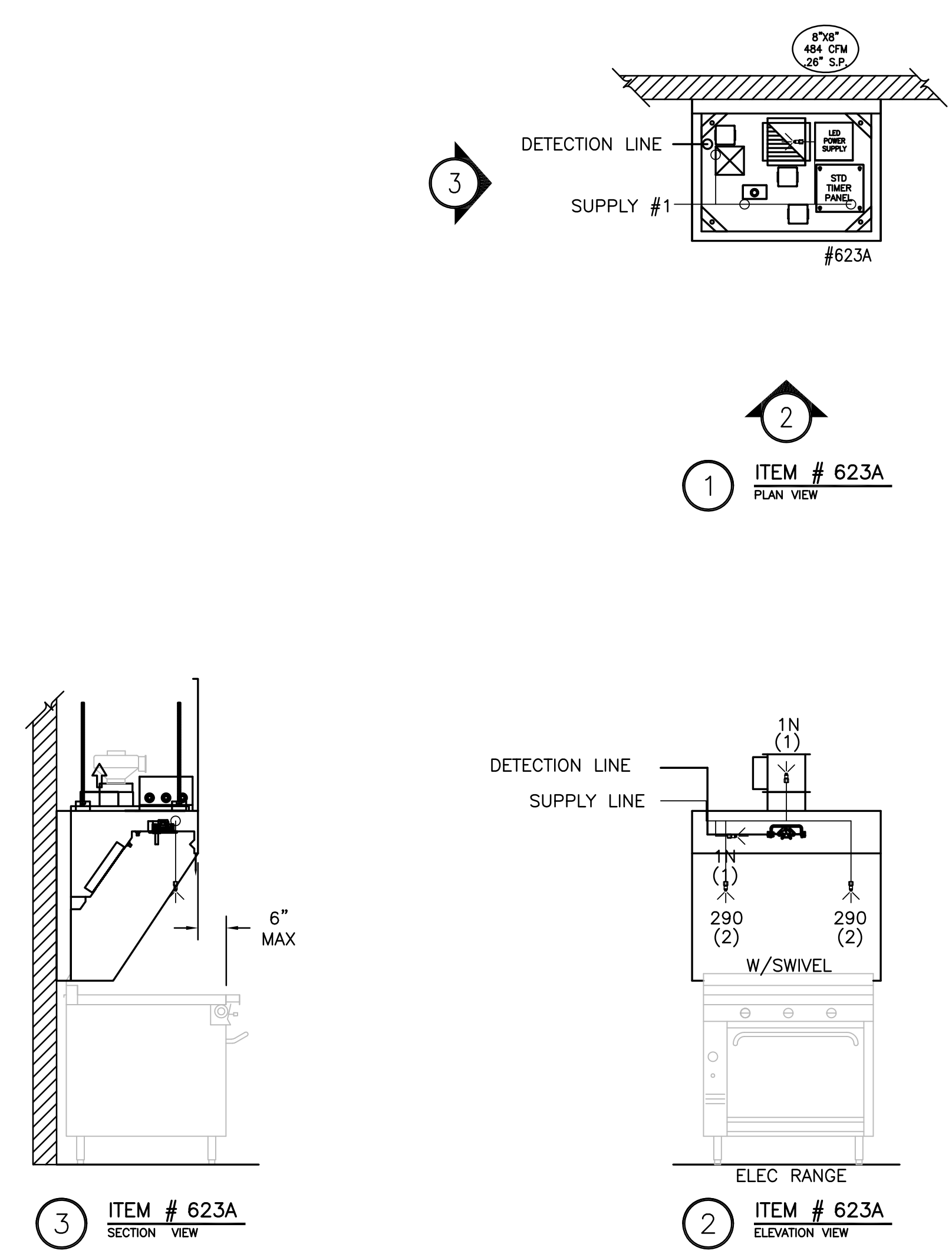
SHEET NO.  
**FSE-84**  
OF SHEETS



3RD FLR SPECIAL NEEDS 600

RECOMMENDED PIPING  
 FIRE SYSTEM TO BE FURNISHED AND INSTALLED  
 IN THE FIELD BY THE GC'S FIRE SYSTEM  
 INSTALLATION CONTRACTOR. THIS SHEET  
 CONTAINS HALTONS RECOMMENDED  
 PIPING DETAILS

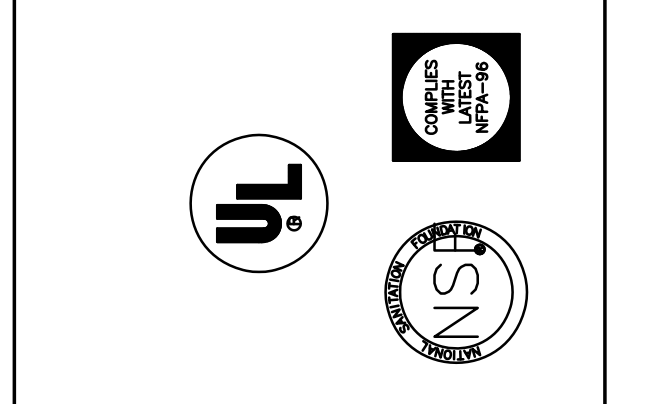
(5) FIVE TOTAL



- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

NOTE  
 HOODS TO BE FURNISHED  
 BY USING AGENCY AND  
 BE INSTALLED BY GC.

THIS DRAWING MUST BE SIGNED, SEALED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:  
 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
 NOTE: TO AVOID PROBLEMS WITH EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW, HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVERSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	BY	DATE	
1	WU	01.24.14	
2	WU	04.09.14	
3	WU	06.03.14	
4	WU	08.07.14	
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.04.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-717
REV. NO.:	4
SHEET NO.:	4 of 13

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

 DEMONICA KEMPER ARCHITECTS 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 K.J.W ENGINEERING 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 E.F. WHITNEY, INC. 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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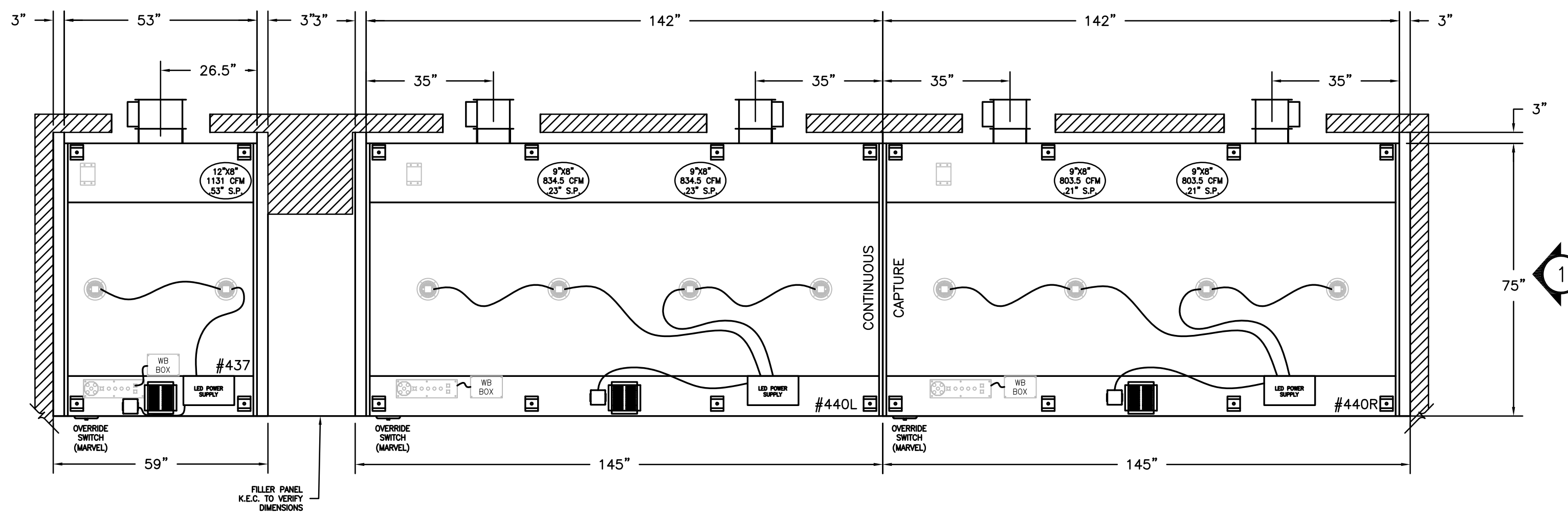
SPECIAL NEEDS KITCHEN ISSUED FOR CONSTRUCTION HALTON - PLANS and DETAILS #624 - FIRE SYSTEM		PROJECT NO. CDB 810-048-023
CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE		DATE DEC. 12, 2014
		SHEET NO. FSE-85 OF SHEETS



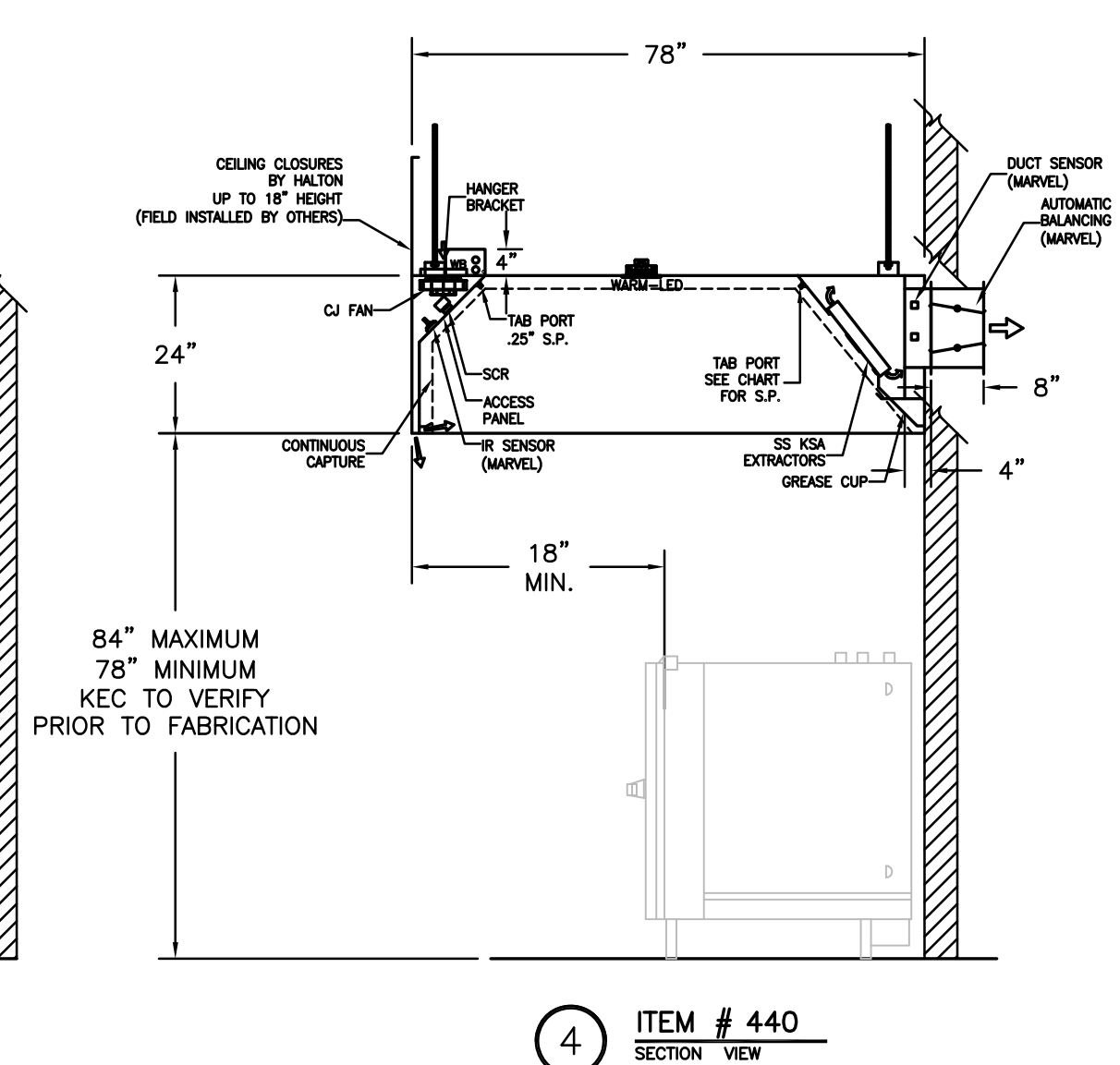
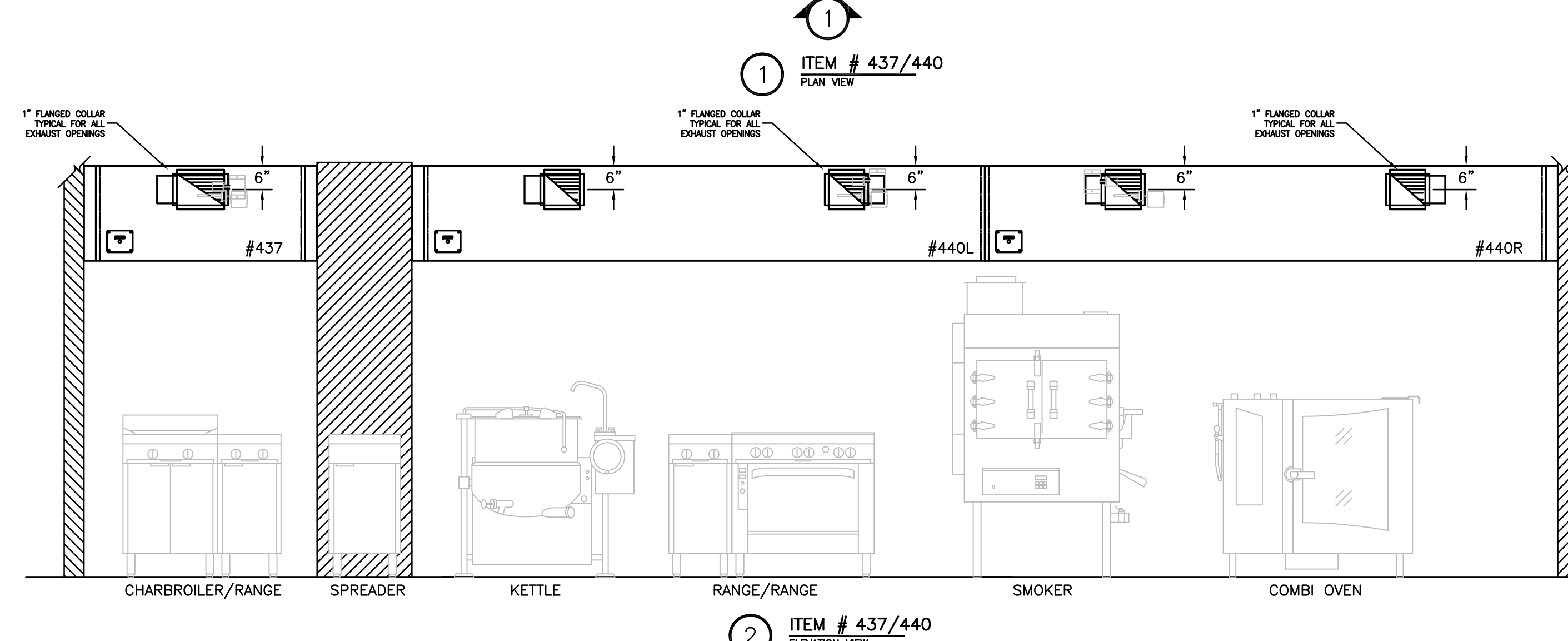
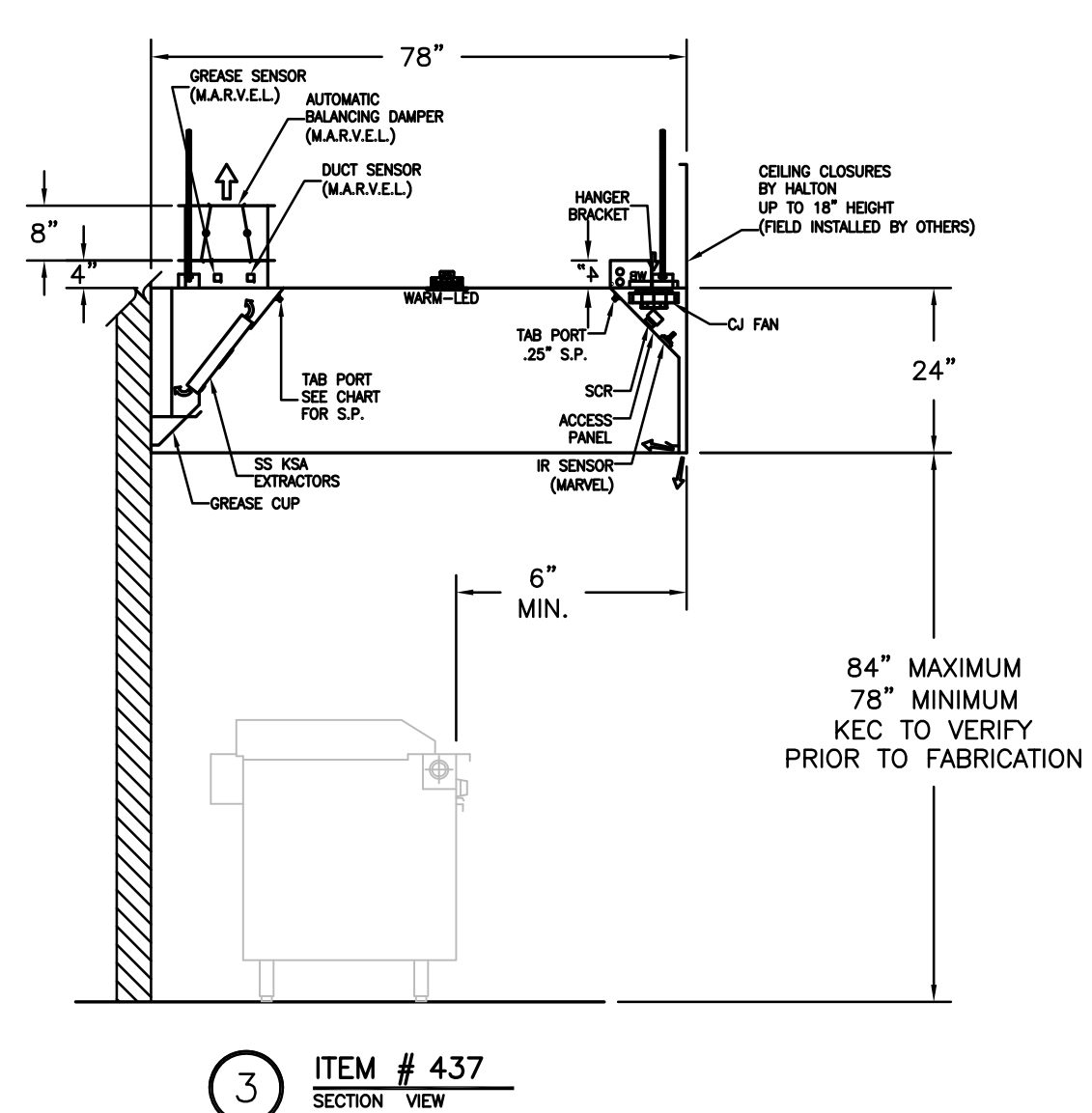
HOOD INFORMATION TABLE												
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS				GREASE EXTRACTOR			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)		
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR	QTY.	SIZE	TYPE				
437	KVE	1131	.42"	.53"	1	12"	8"	2	20" x 13"	KSA	ALL 18GA. 304 S.S.	491
440L	KVE	1669	.13"	.23"	2	9"	8"	7	20" x 13"	KSA	ALL 18GA. 304 S.S.	1208
440R	KVE	1607	.12"	.21"	2	9"	8"	7	20" x 13"	KSA	ALL 18GA. 304 S.S.	1208

TOTAL EXH. CFM = 4407

## 3RD FLR GARDE MANGER 300-400

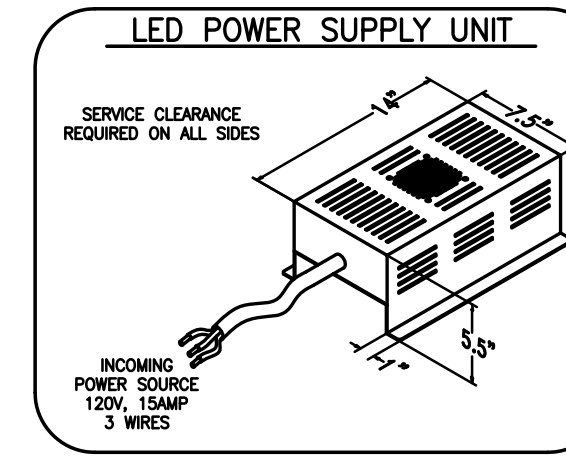
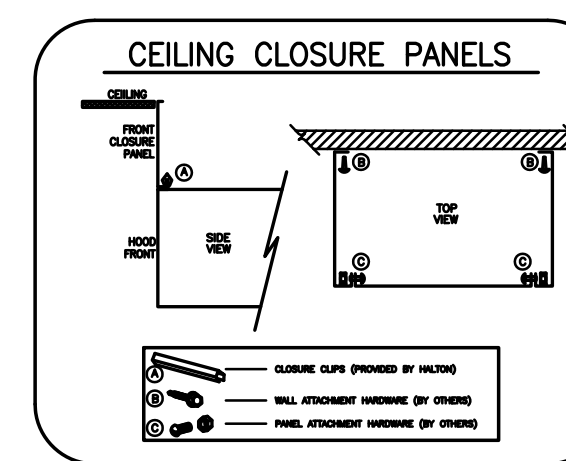


**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



### GENERAL SPECIFICATIONS

- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3089193CLE-002
- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REMOVAL OF SMOKE AND GREASE LAIDEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.



### INSTALLATION REQUIREMENTS

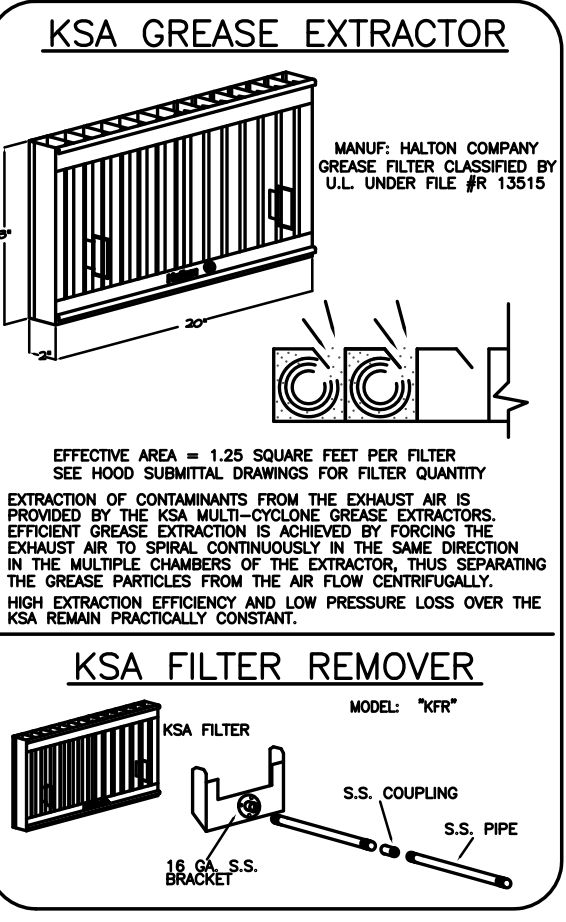
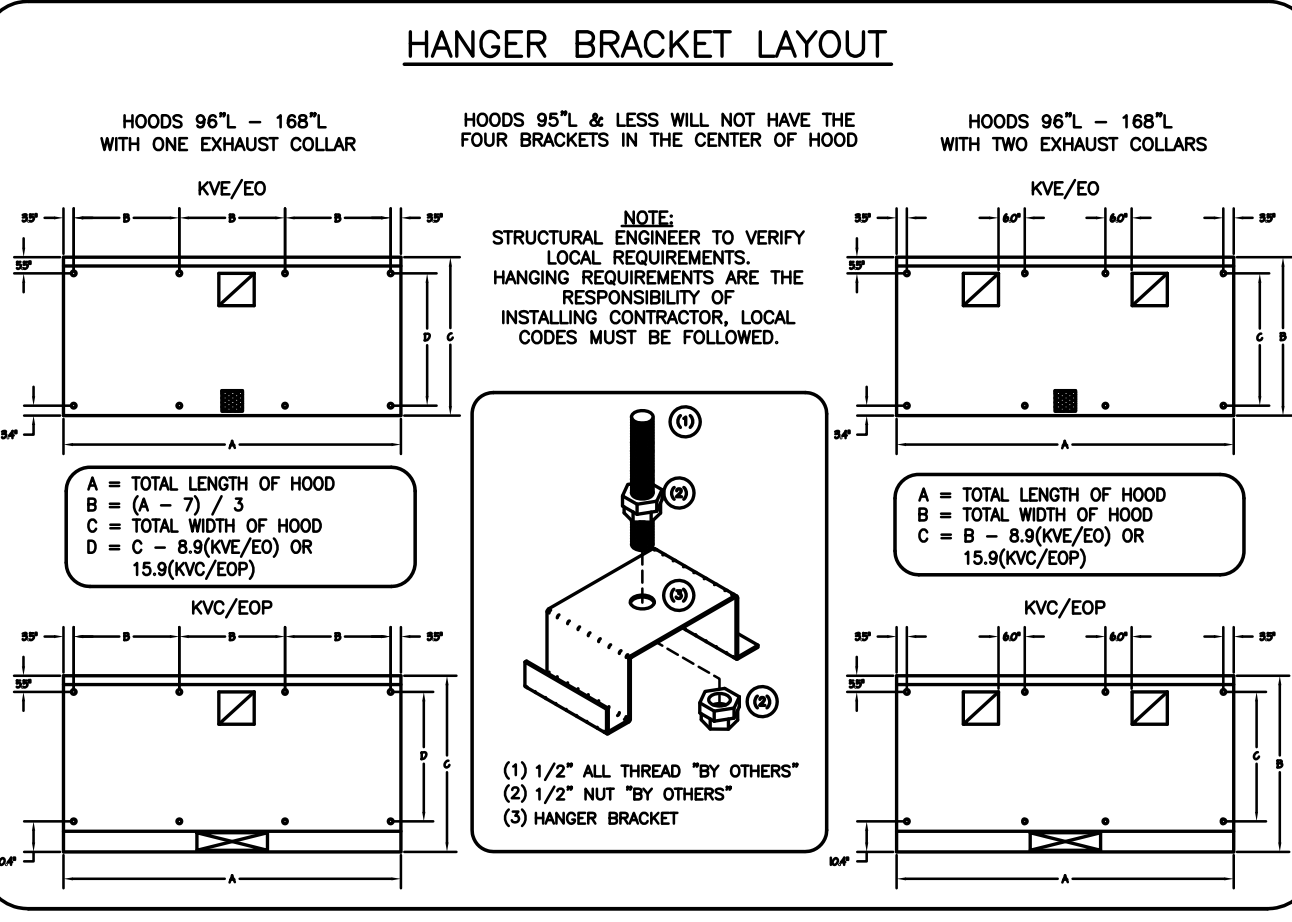
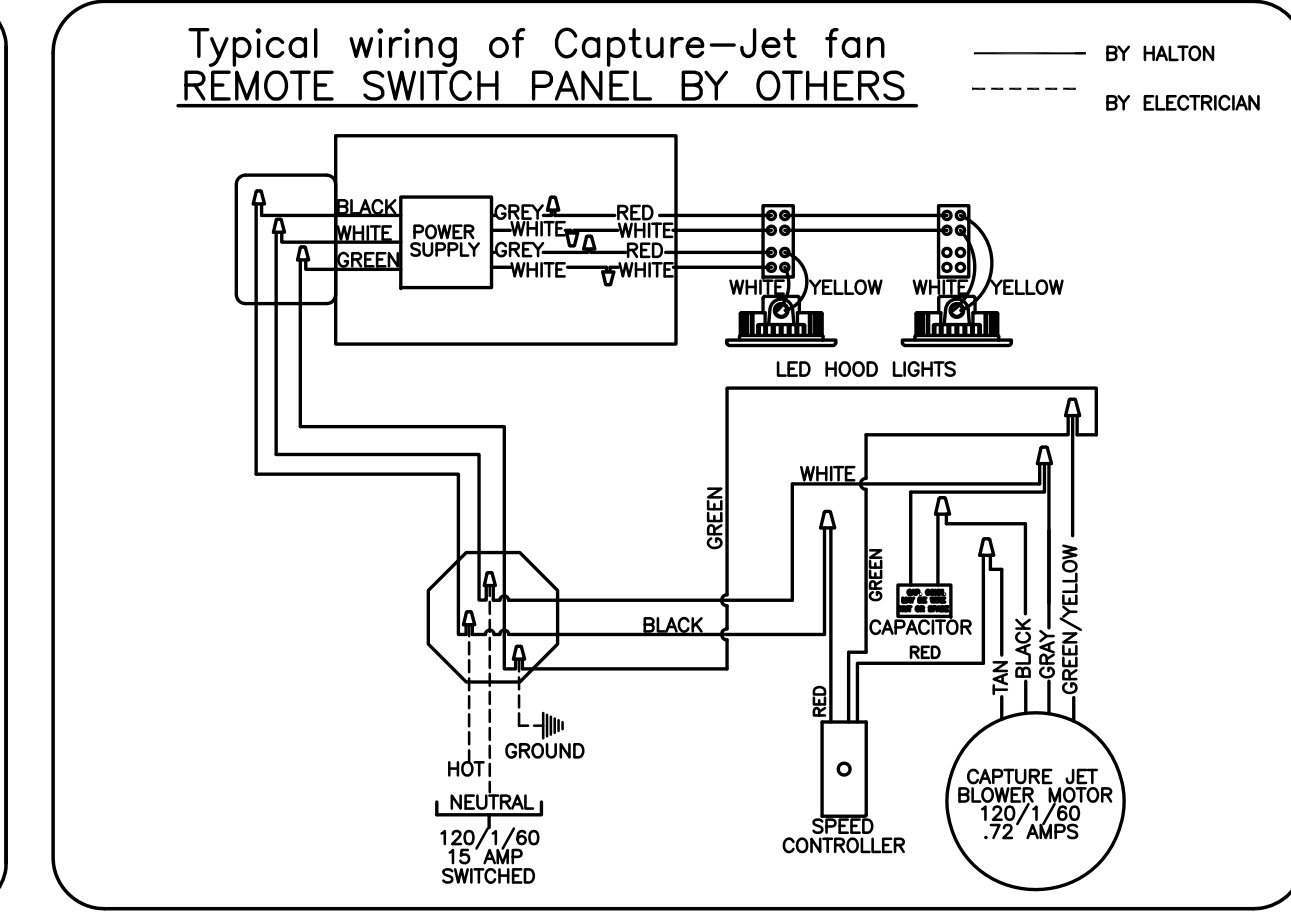
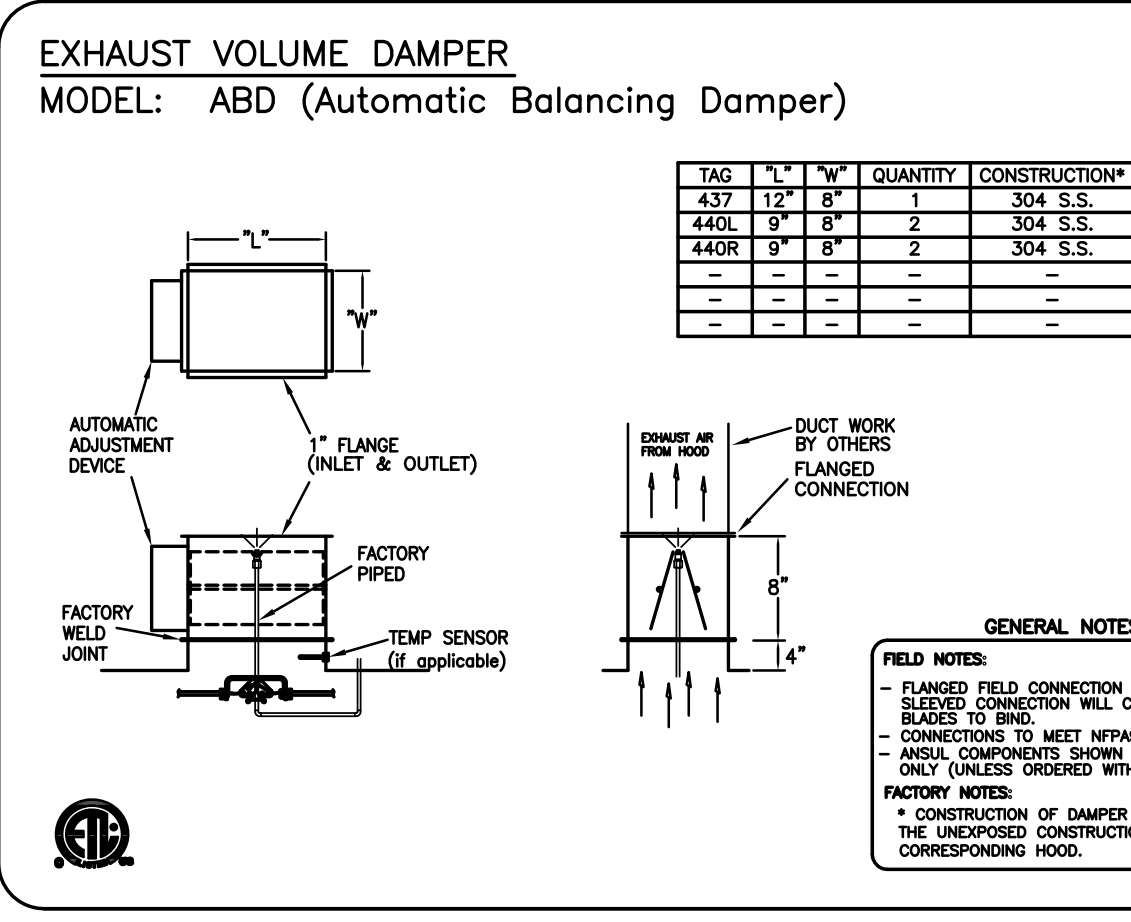
- #### KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- #### ELECTRICAL CONTRACTOR'S REQUIREMENTS
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

### ELECTRICAL EQUIPMENT REQUIREMENTS

- FLUORESCENT LIGHT FIXTURE 40 WATT MAX BULB= .85 AMP EA.
- RECESSED INCANDESCENT LIGHT FIXTURE 150 WATT MAX BULB= 1.25 AMP EA.
- GLOBE INCANDESCENT LIGHT FIXTURE 100 WATT MAX BULB= .85 AMP EA.
- LED LIGHT FIXTURES= .30 AMP EA.
- CAPTURE JET FAN= .72 AMP EA.
- \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*
- \*\*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*

### CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.



### PERFORMANCE CRITERIA

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURER'S OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

- ALL DIMENSIONS INFORMATION, MOUNTING POSITIONS AND LOCATION AND TYPE OF COOKING EQUIPMENT.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE: TO APPROVE: APPROVED FOR FABRICATION: APPROVED FOR INSTALLATION: APPROVED FOR CONSTRUCTION: APPROVED FOR ASSEMBLY: APPROVED FOR REVISION: APPROVED FOR CHANGES AS NOTED: APPROVED BY: DATE:

REV.	REVISIONS	DATE
1	ADDED NOTE	01.28.14
2	REMOVED LIGHT SWITCH FROM HOOD	04.09.14
3	REMOVED MUA	06.03.14
4	REMOVED COLLARS TO REAR OF HOODS	08.07.14
5		10.28.14
6		
7		

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA ON L4W 4R7  
1-905-624-0301

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, KY 42164  
1-270-237-5600

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: BM  
DATE: 11.30.12  
SCALE: NOT TO SCALE  
CONSULTANT: EF WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING No.: U12-717  
REV. NO.: 5  
SHEET NO.: 1 of 13

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**GARDE MANGER KITCHEN**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #437/440**

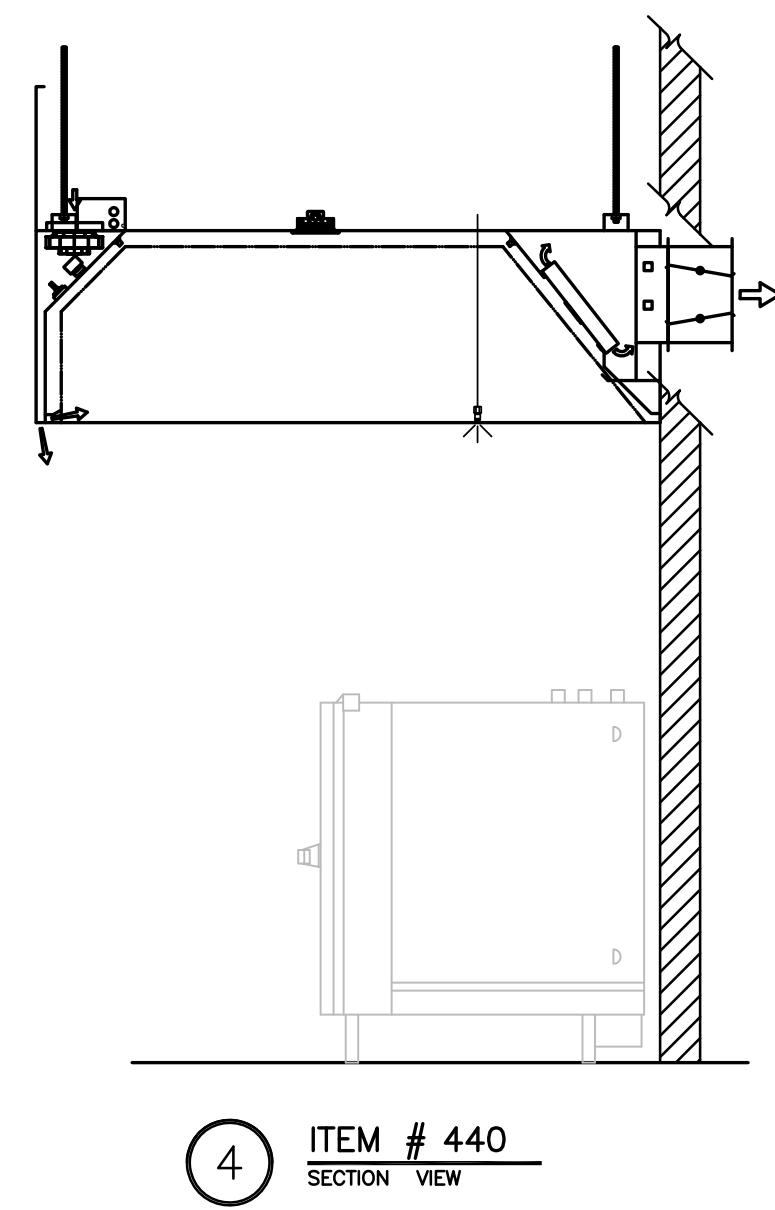
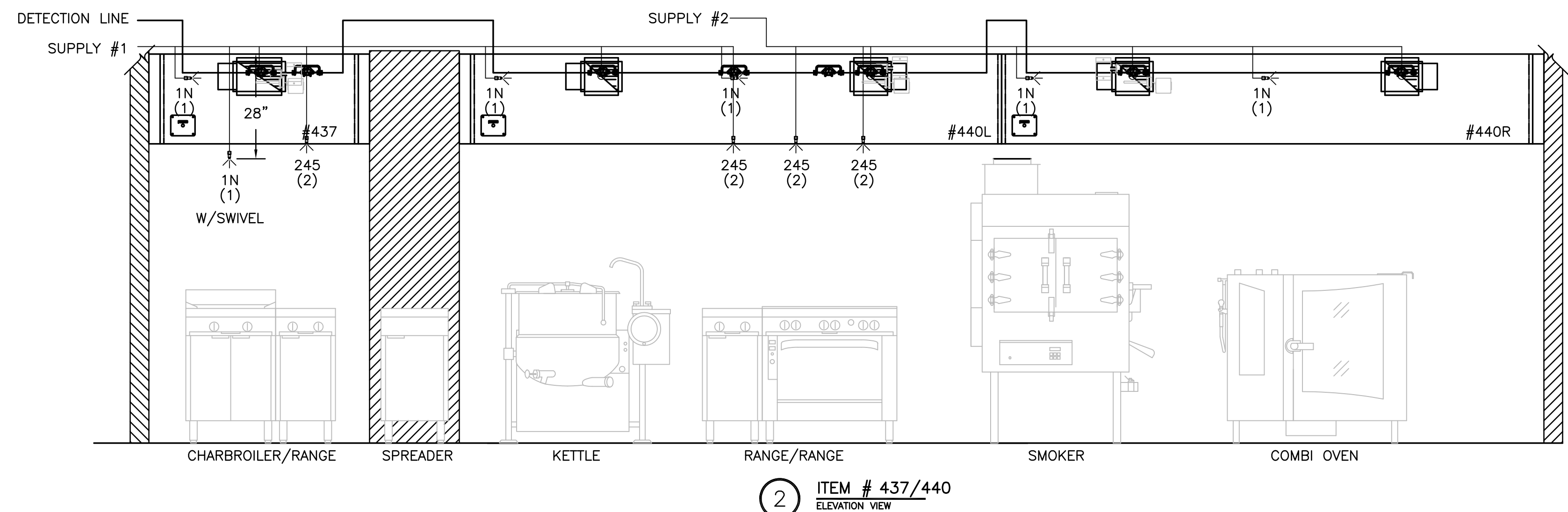
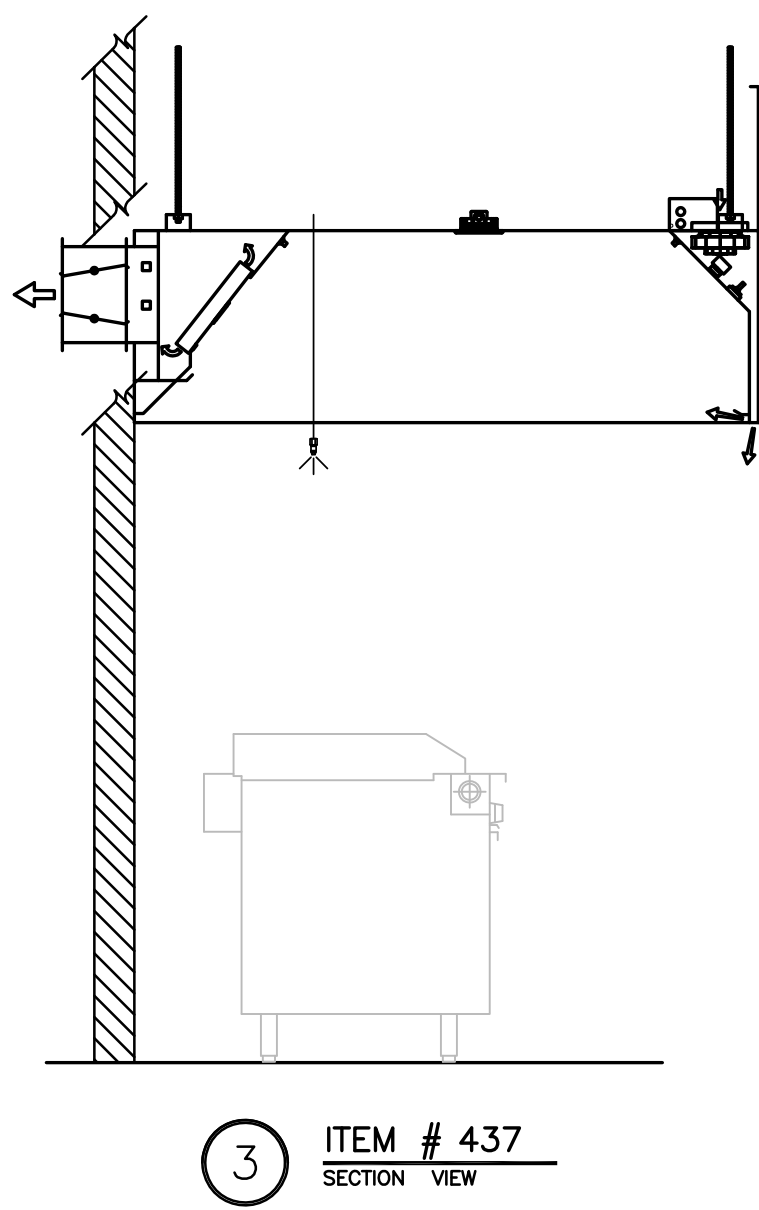
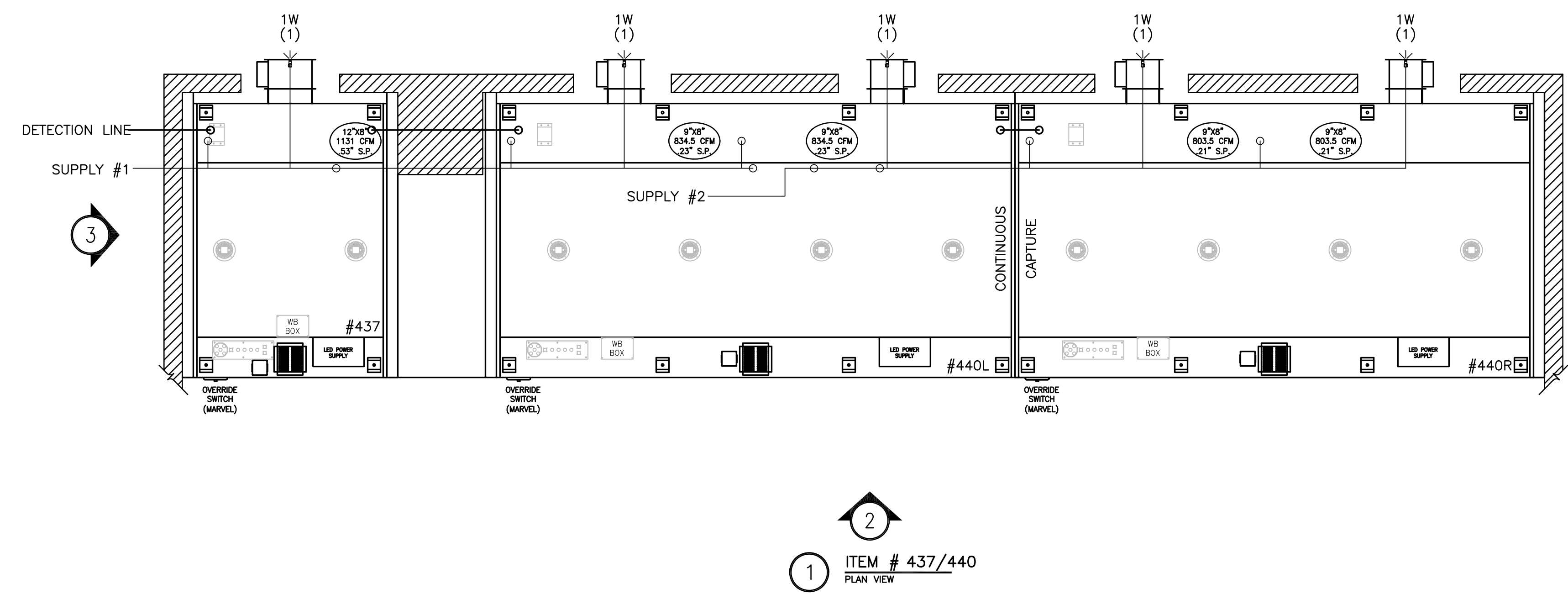
PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. FSE-86 OF SHEETS

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

# 3RD FLR GARDE MANGER 300-400

**RECOMMENDED PIPING**  
FIRE SYSTEM TO BE FURNISHED AND INSTALLED IN THE FIELD BY THE GC'S FIRE SYSTEM INSTALLATION CONTRACTOR. THIS SHEET CONTAINS HALTONS RECOMMENDED PIPING DETAILS

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:  
1. ALL DIMENSIONS, INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
NOTE: TO AVOID EXHAUST BACK-DRAWN AS INCREASED PRESSURE INSIDE OF EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR, A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
APPROVED FOR FABRICATION  
 REVISE AND RESUBMIT  
 WITH NO CHANGES  WITH CHANGES AS NOTED  
APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	REVISION DESCRIPTION	BY	DATE
1	REVISED HOODS	WU	01.28.14
2	NO CHANGE	WU	04.09.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4	REMOVED MUA	WU	08.07.14
5	REVISED COLLAR OUT REAR OF HOOD	WU	10.28.14
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	BM
SCALE:	NOT TO SCALE
CONSULTANT:	EF WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-717
REV. NO.:	5
SHEET NO.:	2 of 13

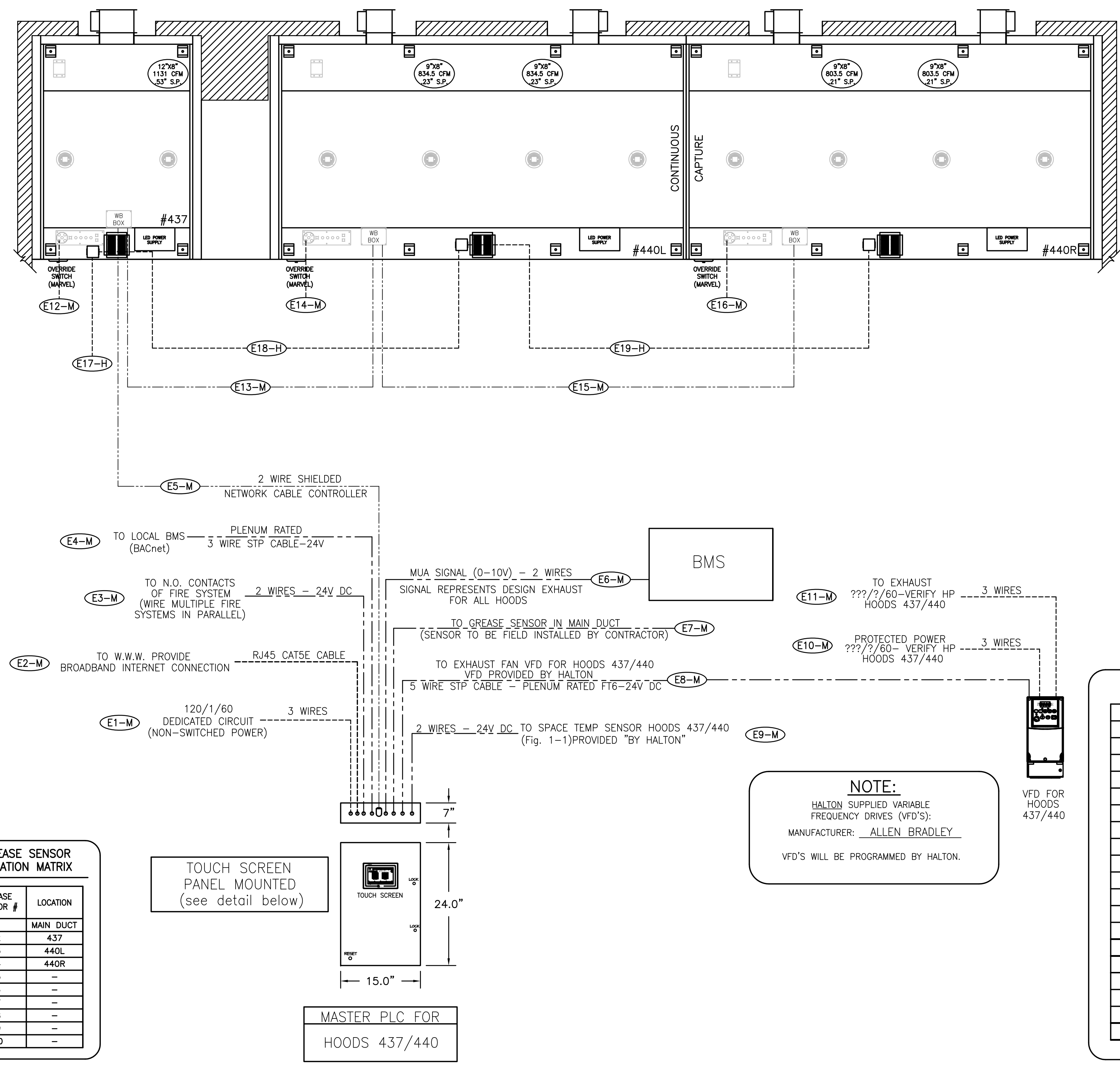
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>GARDE MANGER KITCHEN ISSUED FOR CONSTRUCTION</b>	
<b>HALTON - PLANS and DETAILS #438/441 - FIRE SYSTEM</b>	
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>	
PROJECT NO. CDB 810-048-023	DATE DEC. 12, 2014
<b>FSE-87</b>	
OF SHEETS	





**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

**3RD FLR GARDE MANGER 300-400**

**ELECTRICAL & DATA CABLE CONNECTION SCHEDULE**

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-M	120V, 15AMP - CONTROL PANEL POWER - 3 WIRES	BUILDING SOURCE	CONTROL PANEL
E2-M	BROADBAND INTERNET CONNECTION	BUILDING SOURCE	CONTROL PANEL
E3-M	FIRE MODE SIGNAL - TO FIRE SUPPRESSION PANEL - 2 WIRES	CONTROL PANEL	FIRE SYSTEM
E4-M	3 WIRE STP CABLE - PLENUM RATED - TO BMS(BACNET)	CONTROL PANEL	BMS
E5-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	CONTROL PANEL	HOOD #437
E6-M	0-10V MUA SIGNAL TO BMS - 2 WIRES	CONTROL PANEL	BMS
E7-M	FIELD CONNECTION FOR MAIN DUCT GREASE SENSOR - 3 WIRES	CONTROL PANEL	GREASE SENSOR
E8-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD
E9-M	2 WIRES TO SPACE TEMPERATURE SENSOR	CONTROL PANEL	TEMP SENSOR
E10-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD
E11-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR
E12-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #437
E13-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #437	HOOD #440L
E14-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #440L
E15-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #440L	HOOD #440R
E16-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #440R
E17-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #437
E18-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #437	HOOD #440L
E19-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #440L	HOOD #440R

**NOTE:**  
HALTON SUPPLIED VARIABLE FREQUENCY DRIVES (VFD'S). MANUFACTURER: ALLEN BRADLEY. VFD'S WILL BE PROGRAMMED BY HALTON.

**FAN CONFIGURATION DATA FOR M.A.R.V.E.L.**

Exhaust Data:  
 EF Item #: Voltage/Phase/Hertz: \_\_\_\_\_  
 EF HP: \_\_\_\_\_  
 Hood Item #'s connected to this fan: \_\_\_\_\_  
 EF Item #: Voltage/Phase/Hertz: \_\_\_\_\_  
 EF HP: \_\_\_\_\_  
 Hood Item #'s connected to this fan: \_\_\_\_\_  
 EF Item #: Voltage/Phase/Hertz: \_\_\_\_\_  
 EF HP: \_\_\_\_\_  
 Hood Item #'s connected to this fan: \_\_\_\_\_  
 EF Item #: Voltage/Phase/Hertz: \_\_\_\_\_  
 EF HP: \_\_\_\_\_  
 Hood Item #'s connected to this fan: \_\_\_\_\_

Make Up Air Data:  
 Quantity of MUA "Zones": \_\_\_\_\_  
 Hood Item #'s located in Zone 1: \_\_\_\_\_  
 Hood Item #'s located in Zone 2: \_\_\_\_\_

**NOTE:** Above information must be completed in full prior to project being released for production. If more than four exhaust fans of two MUA zones are being used, please provide this data as well.

**NOTES:**  
ALL FIELD WIRING AND CONNECTION POINTS ARE SUBJECT TO CHANGE DUE TO ELECTRICAL COMPONENT(S) UPDATE OR OBSOLETE. HALTON WILL NOT BE LIABLE FOR ANY CHANGE ORDERS BASED ON DRAWINGS CREATED ONE OR MORE YEARS PRIOR TO PRODUCTION. WHEN RELEASED AN UPDATED SET OF ELECTRICAL DIAGRAM(S) WILL BE SUPPLIED.

**M.A.R.V.E.L. SCOPE OF WORK**

- RESPONSIBILITY TO BE SELECTED BY GENERAL CONTRACTOR
- DEFINITIONS FOR REFERENCE:**  
 M.A.R.V.E.L. I SYSTEMS = 1 EXHAUST FAN SERVING 1 KITCHEN HOOD  
 M.A.R.V.E.L. II SYSTEMS = 1 EXHAUST FAN SERVING MULTIPLE KITCHEN HOODS  
 VFD = VARIABLE FREQUENCY DRIVES
- CONNECTION LOCATIONS WILL VARY PER SYSTEM, REFER TO HALTON M.A.R.V.E.L. DIAGRAMS FOR SPECIFICS
- APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE M.A.R.V.E.L. CONTROL PANEL. LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN SAME SPACE AS THE KITCHEN HOODS BEING SERVED BY PANEL. (M.A.R.V.E.L. I HOOD SYSTEMS WILL NOT HAVE SUCH PANEL)
  - APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT M.A.R.V.E.L. CONTROL PANEL.
  - APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL RJ45 CAT5E CABLE CONNECTION AT M.A.R.V.E.L. CONTROL PANEL FOR M.A.R.V.E.L. II SYSTEMS OR AT KITCHEN HOOD FOR M.A.R.V.E.L. I SYSTEMS FOR I.P. ADDRESS.
  - APPLICABLE CONTRACTOR TO INSTALL SPACE TEMP SENSOR (SUPPLIED BY HALTON) IN SAME SPACE AS KITCHEN HOOD SYSTEM AND 48"-54" A.F.F. NEAREST MUA T-STAT.
  - APPLICABLE CONTRACTOR SHALL SUPPLY AND RUN 2 WIRE 24V DC CONNECTION FROM SPACE TEMP SENSOR TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. II) OR TO KITCHEN HOOD (M.A.R.V.E.L. I)
  - APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE 24V DC WIRING FROM ANSUL FIRE SYSTEM EITHER TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. II) OR TO KITCHEN HOOD (M.A.R.V.E.L. I)
  - APPLICABLE CONTRACTOR SHALL CONNECT 2 WIRE COMMUNICATION CABLE (SUPPLIED BY HALTON) FROM HOOD TO HOOD AND TO PANEL AS SHOWN IN HALTON M.A.R.V.E.L. DIAGRAM
  - APPLICABLE CONTRACTOR TO SUPPLY AND RUN 3 WIRE MUA SIGNAL (0-10V) FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. II) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO BMS OR DOC.
  - APPLICABLE CONTRACTOR TO SUPPLY AND RUN 5 WIRE STP PLENUM RATED CABLE FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. II) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO EXHAUST FAN VFD(S) (VFD'S AND CABINET SUPPLIED BY HALTON UNLESS OTHERWISE NOTED)
  - APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE VFD(S). LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN 150 FEET MAX DISTANCE FROM EXHAUST FAN(S).
  - APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FEED FROM CIRCUIT BREAKER(S) TO VFD(S). APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FROM VFD(S) TO EXHAUST / MUA (IF APPLICABLE) MOTORS. ALL TO BE RAN IN SEPARATE CONDUIT.
  - APPLICABLE CONTRACTOR SHALL INSTALL GREASE SENSOR(S) IN MAIN EXHAUST TRUNK, AND WIRE THE SENSOR BACK TO THE DESIGNATED LOCATION.
  - APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT EACH KITCHEN HOOD. (IF HOODS ARE UV, A SECOND 115V DEDICATED CIRCUIT IS REQUIRED).
  - INSTALLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING ADEQUATE ACCESS TO ALL COMPONENTS LOCATED ABOVE HOOD.
  - HALTON REPRESENTATIVE TO PERFORM FINAL FIELD COMMISSIONING ONCE ALL RESPONSIBILITIES ARE COMPLETED ABOVE.

**NOTES:**  
ALL WIRING AND CABLING TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS STATED OTHERWISE

**NOTES:**  
ALL FAN MOTORS MUST BE COMPATIBLE WITH VARIABLE FREQUENCY DRIVES (VFD'S). MOTORS THAT ARE 1 HP AND ABOVE MUST BE CONNECTED TO THREE PHASE POWER.

**NOTES:**  
ALL VARIABLE FREQUENCY DRIVES (VFD'S) MUST BE INSTALLED WITHIN 150' OF THE EXHAUST FAN.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

**NOTE TO APPROVER:**  
ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES OCCURRING AFTER APPROVAL WILL REQUIRE A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION:  WITH NO CHANGES  WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)  
1021 BREVIK PLACE  
MISSISSAUGA, ONTARIO, CANADA L4V 1G4  
1-800-821-0301

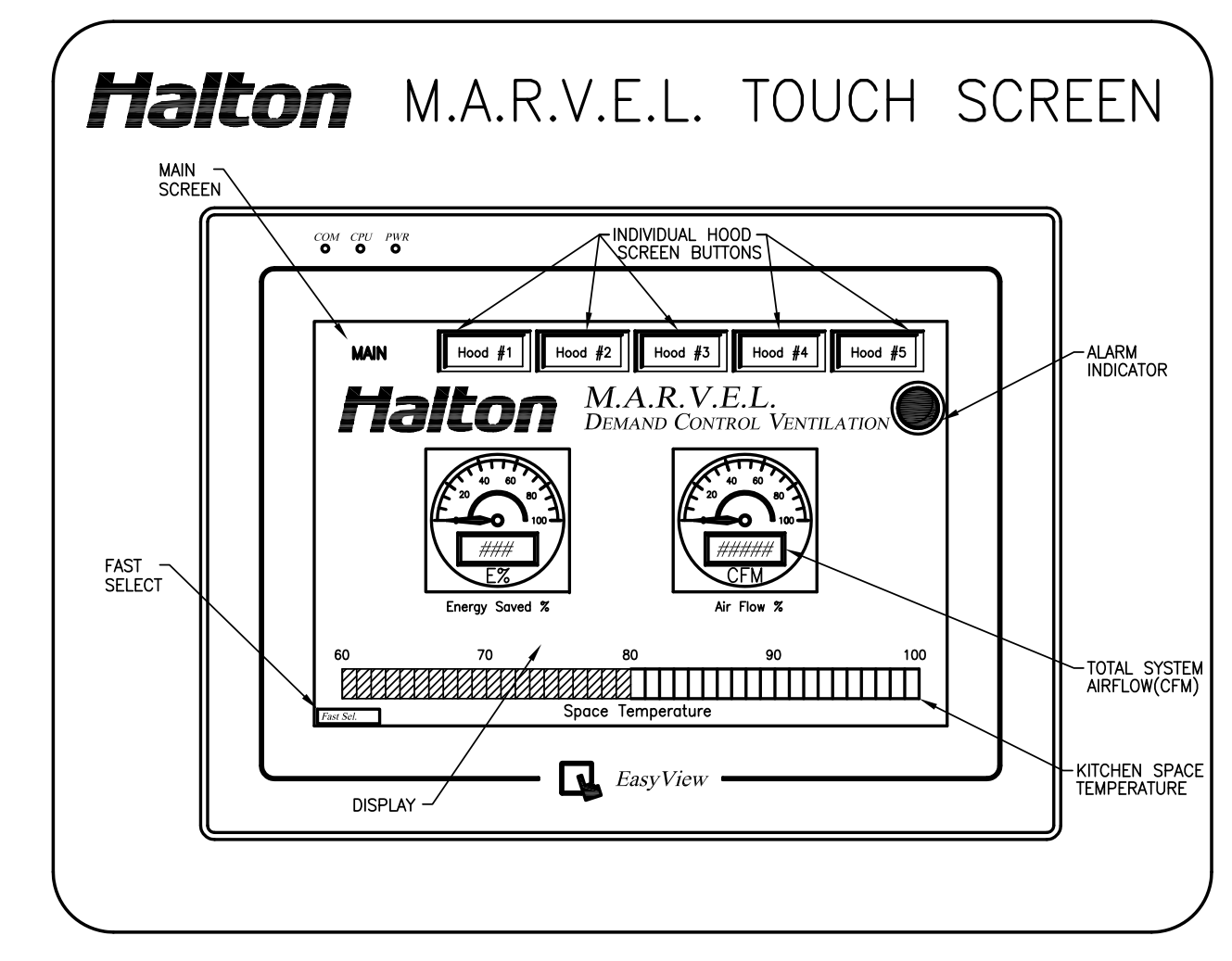
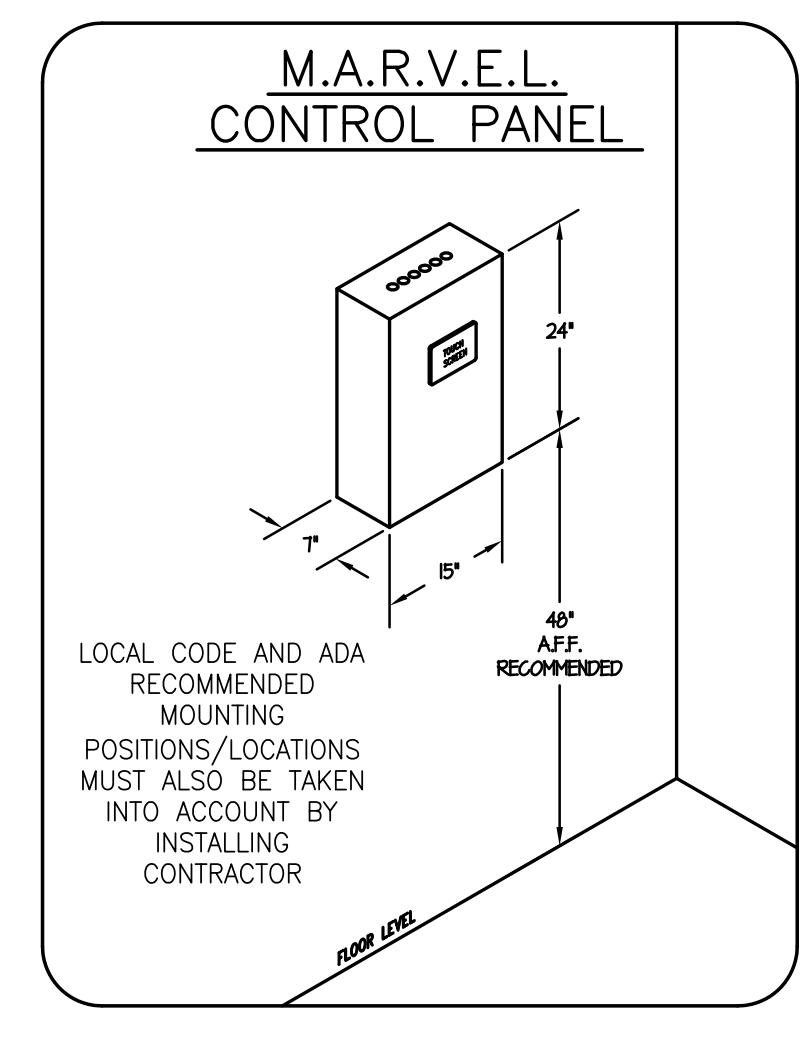
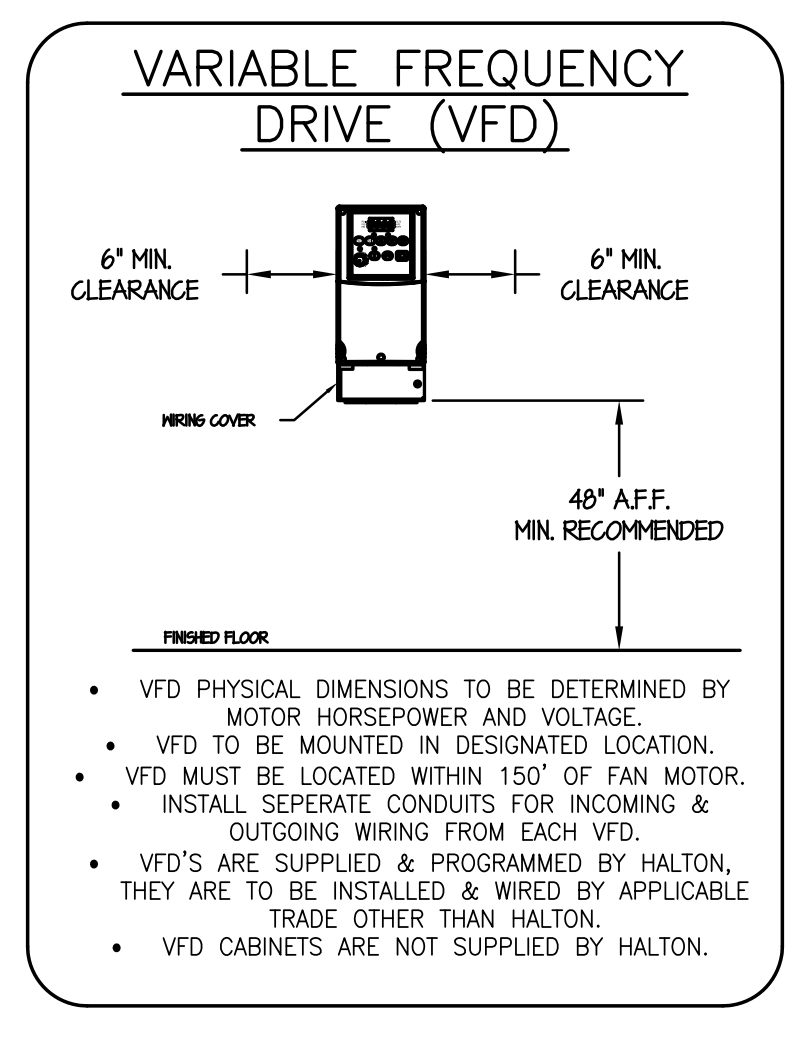
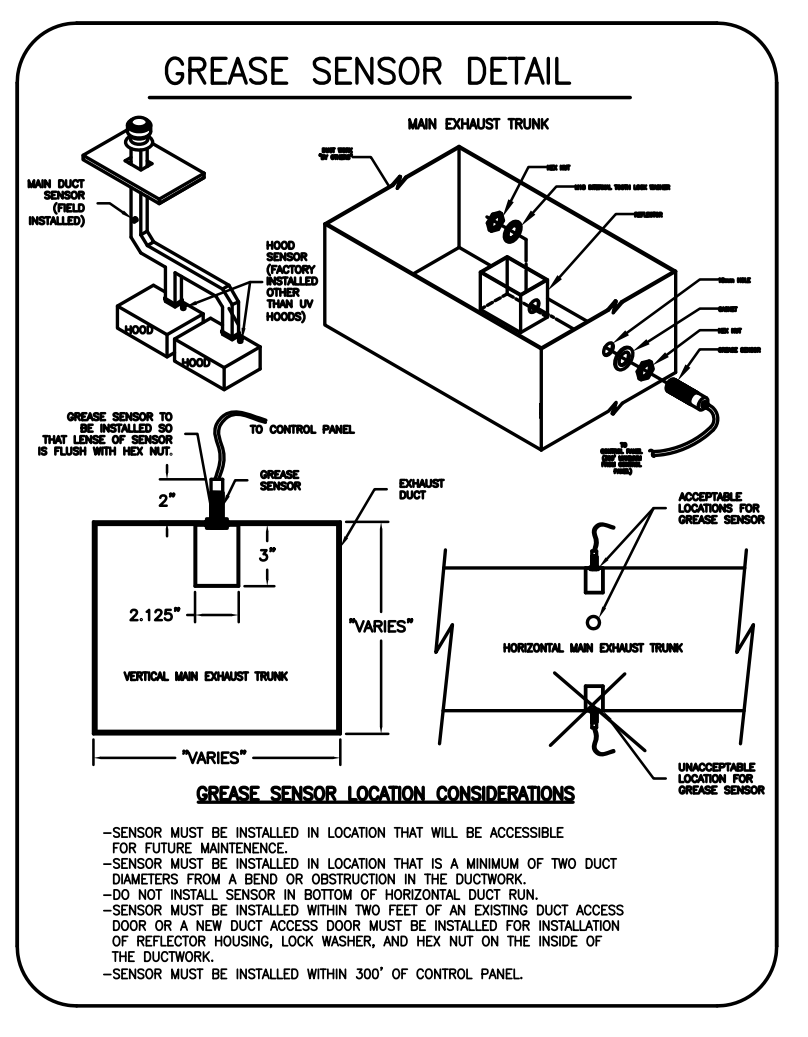
HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, AZ 85257  
1-270-257-5600

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU DATE: 01.28.14  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

REVISION DESCRIPTION: 1 INCLUDED MARVEL SHEETS 2 ADDED BACNET 3 REMOVED LIGHT SWITCH FROM HOOD 4 REMOVED MUA 5 REVISED COLLARS OUT REAR OF HOODS

DATE: 01.28.14  
DATE: 04.09.14  
DATE: 06.03.14  
DATE: 08.07.14  
DATE: 10.28.14

DRAWING NO.: U12-717  
REV. NO.: 5 SHEET NO.: 13 of 13



**M.A.R.V.E.L. SYSTEM**

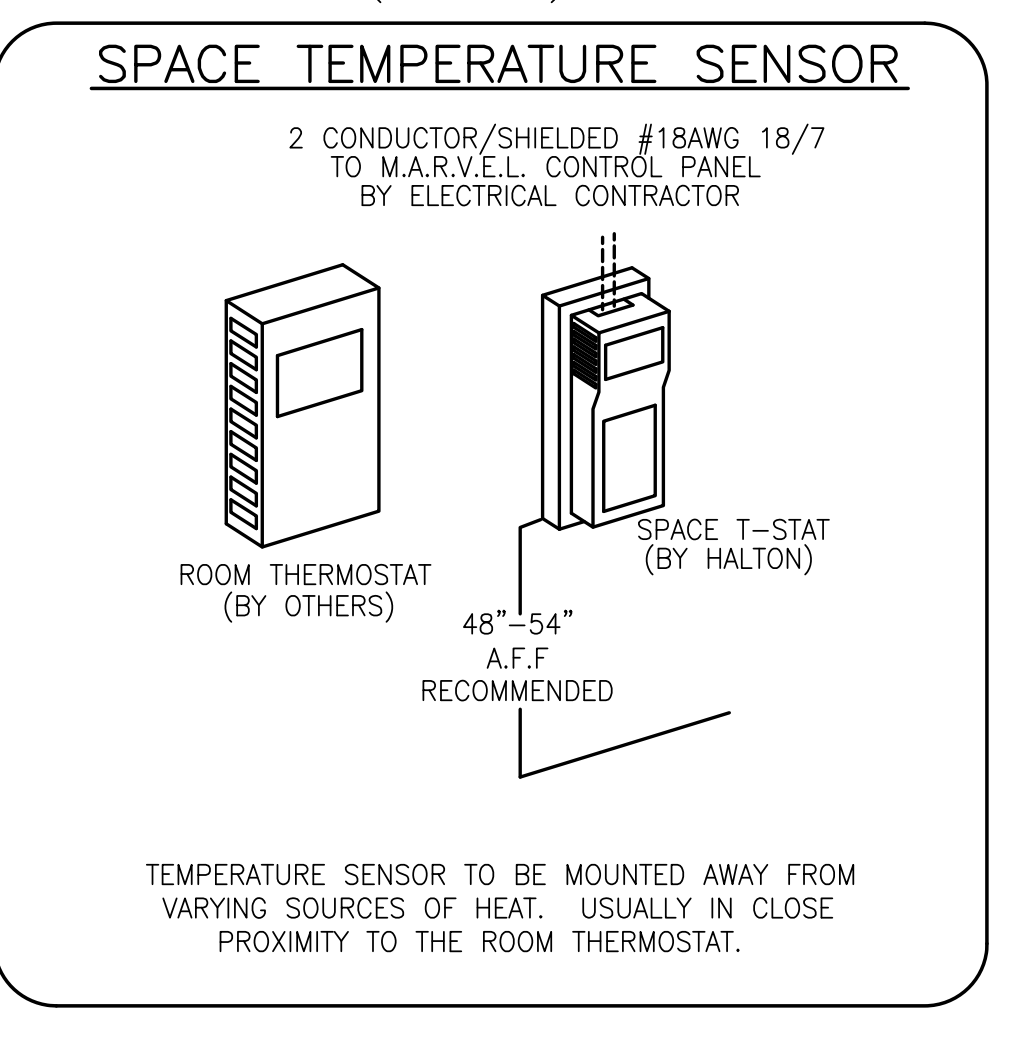
**M.A.R.V.E.L. EQUIPMENT CONNECTED LOADS**

M.A.R.V.E.L. CONTROL PANEL= 10 AMPS EA.  
 M.A.R.V.E.L. PLC AT EACH HOOD SECTION= 4 AMPS EA.

**\*\*ALL CIRCUITS ARE NOT TO EXCEED 15 AMP\*\***

**NOTES:**

- FIELD WIRING (BY E.C.) - 120V - 12AWG MIN.-16AWG MAX.
- FIELD WIRING (BY E.C.) - 24V - 22AWG MIN.-16AWG MAX.
- SHIELDED NETWORK CABLES - PROVIDED BY HALTON, FIELD INSTALLED BY OTHERS



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN: XXX  
 PREPARED: XXX  
 TRACED: XXX  
 CHECKED: XXX

APPROVED: XXX  
 APPROVED: EFW

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

**dk** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**K J W W** KJWW ENGINEERING  
 1100 WARRENVILLE ROAD, #400W  
 NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET  
 BIRMINGHAM, MI 48009  
 T: 248.644.0990

**GARDE MANGER KITCHEN ISSUED FOR CONSTRUCTION**

**M.A.R.V.E.L. SYSTEM DETAILS #437**

**CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
 DATE: DEC. 12, 2014  
 SHEET NO. FSE-88 OF SHEETS



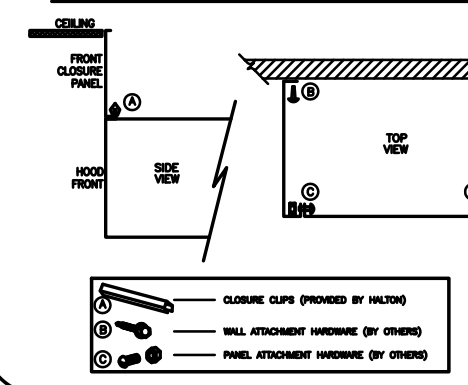
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS					GREASE EXTRACTOR			SUPPLY AIR REQUIREMENTS					HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)		
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR			QTY.	SIZE		TYPE	SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR					
					QTY.	LENGTH	WIDTH		L	H				QTY.				LENGTH	WIDTH
493L	KVE	1225	.10"	.20"	1	12"	9"	5	20"	13"	KSA	980	.14"	1	12"	12"	ALL 18GA. 304 S.S.	832	139
493R	KVE	1555	.16"	.26"	1	12"	11"	5	20"	13"	KSA	1244	.22"	1	14"	12"	ALL 18GA. 304 S.S.	832	139
505L	KVE	1686	.18"	.29"	1	12"	11"	5	20"	13"	KSA	1348	.26"	1	16"	12"	ALL 18GA. 304 S.S.	832	139
505R	KVE	1665	.18"	.28"	1	12"	12"	5	20"	13"	KSA	1332	.25"	1	16"	12"	ALL 18GA. 304 S.S.	832	139

TOTAL EXH. CFM = 6131

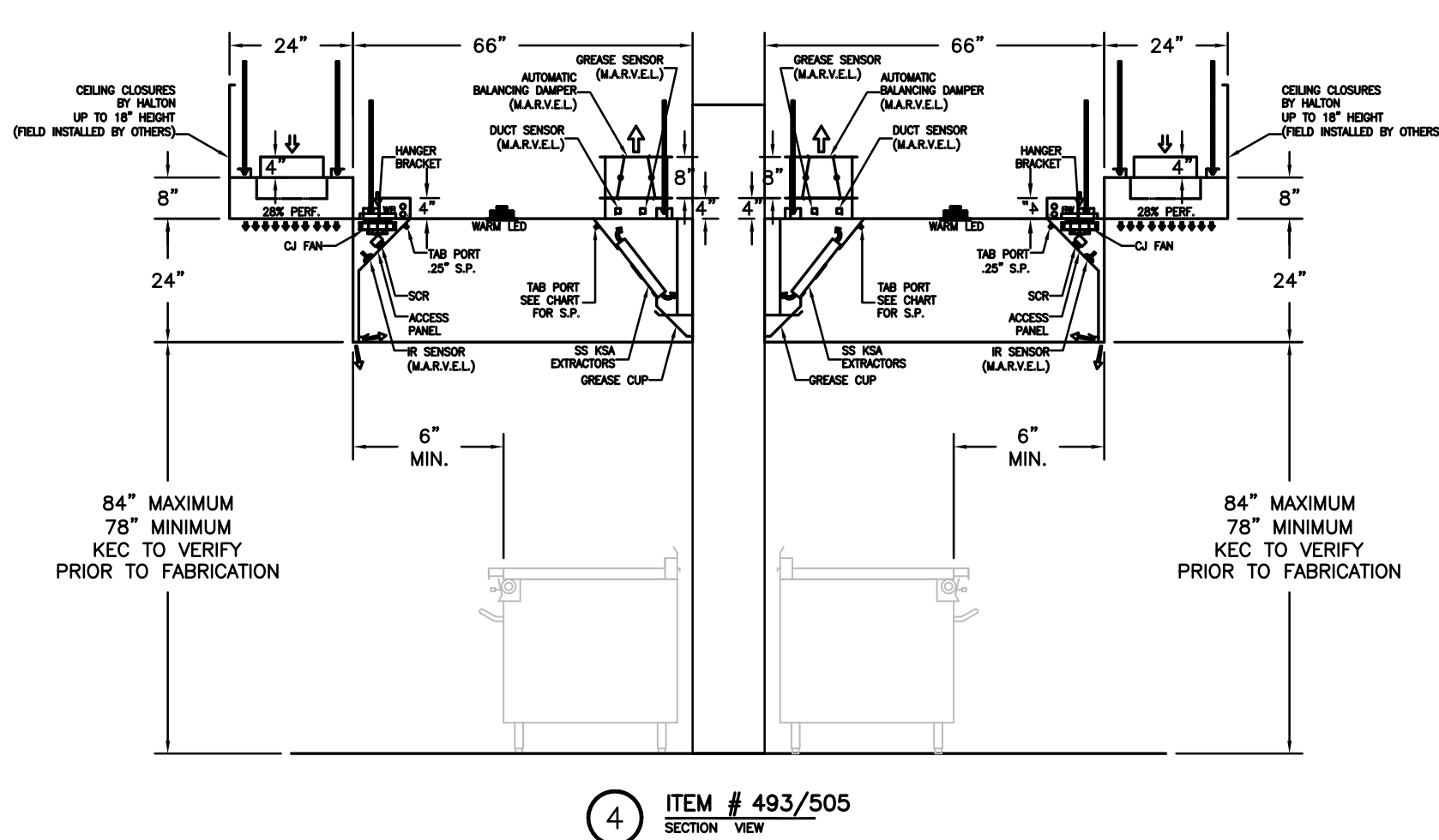
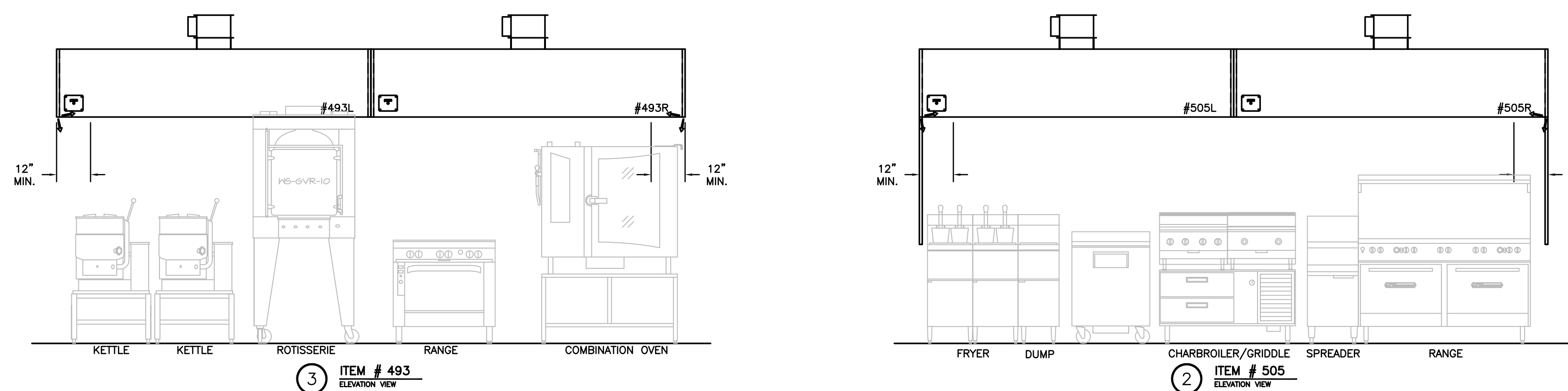
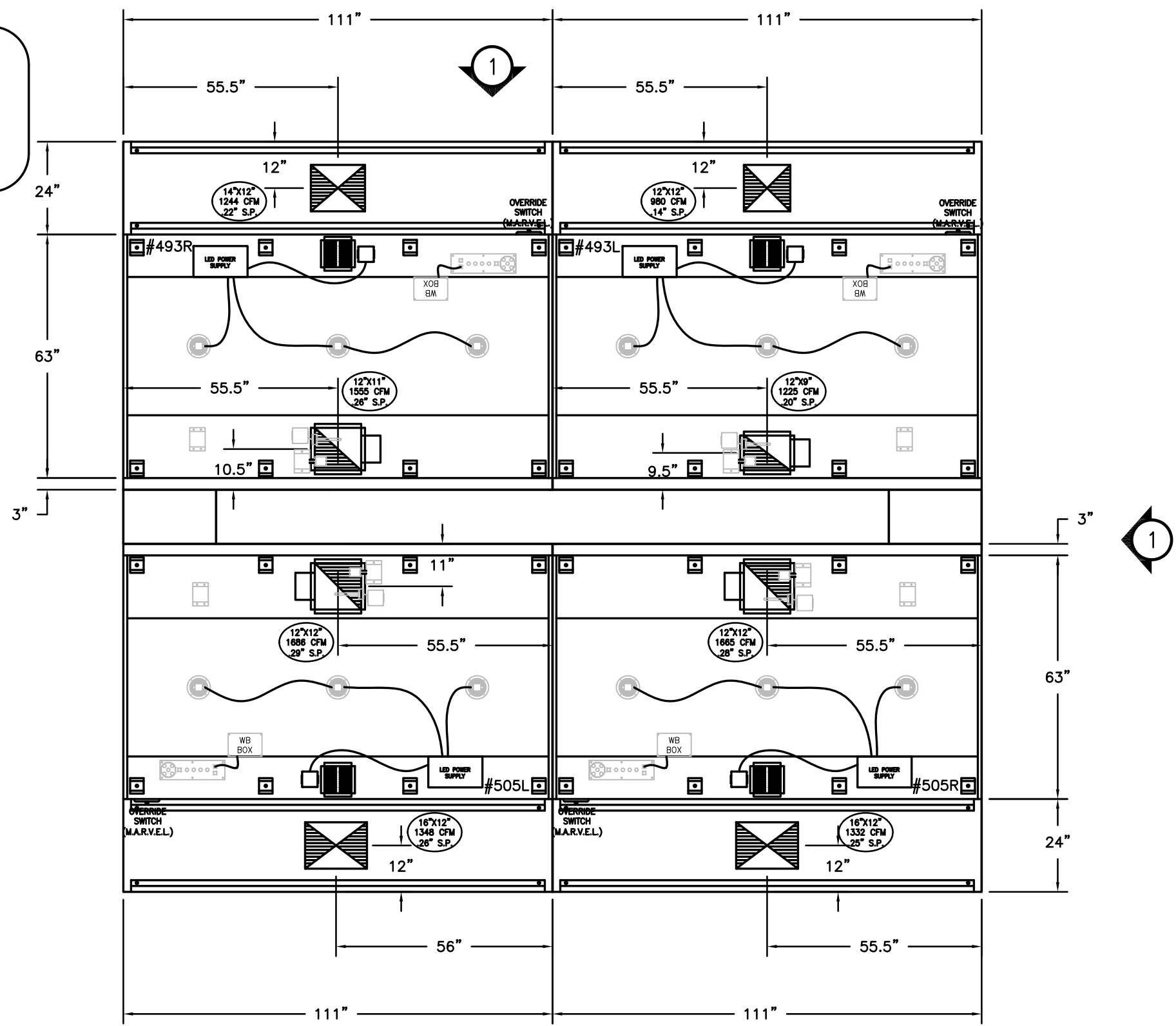
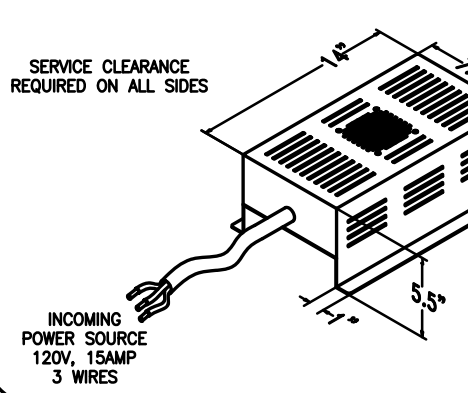
TOTAL SUPPLY CFM = 4904

2ND FLR 400-500

CEILING CLOSURE PANELS



LED POWER SUPPLY UNIT



**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH. ENG.

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

GENERAL SPECIFICATIONS

- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND ALL CITY STANDARDS.
- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #30851935CL-002
- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96. REMOVAL OF SMOKE AND GREASE LOADS VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

INSTALLATION REQUIREMENTS

- KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

ELECTRICAL CONTRACTOR'S REQUIREMENTS

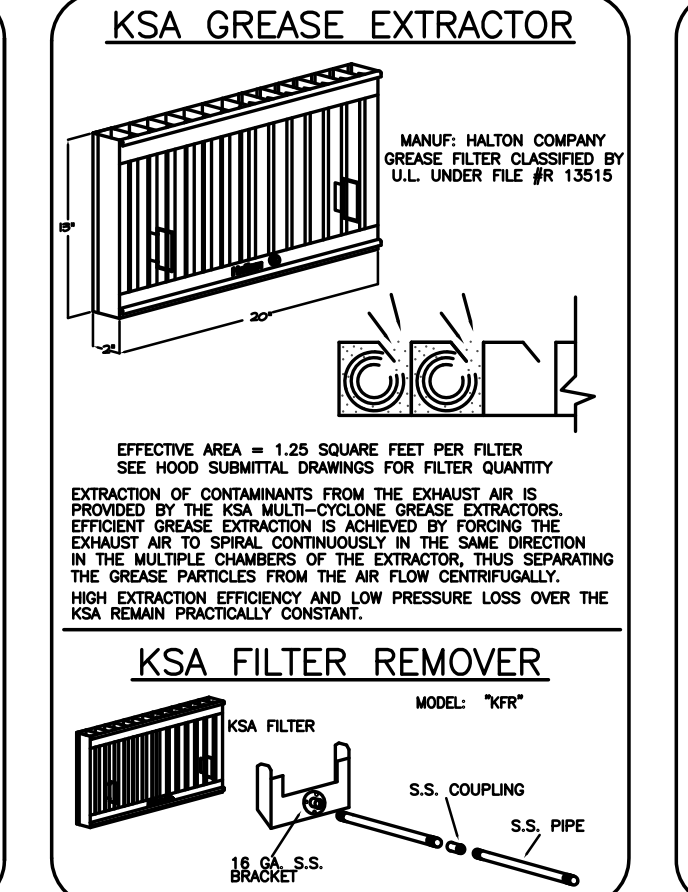
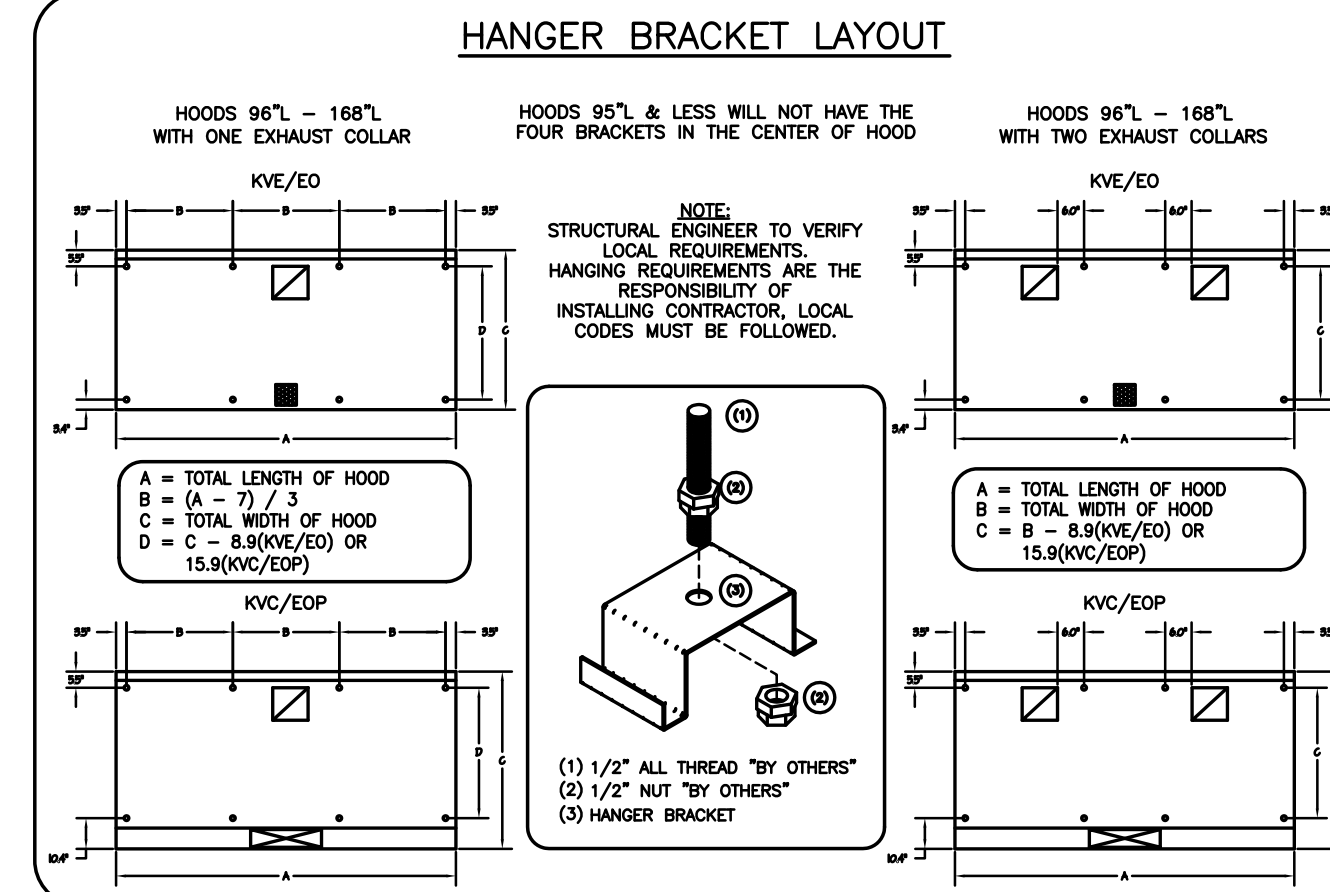
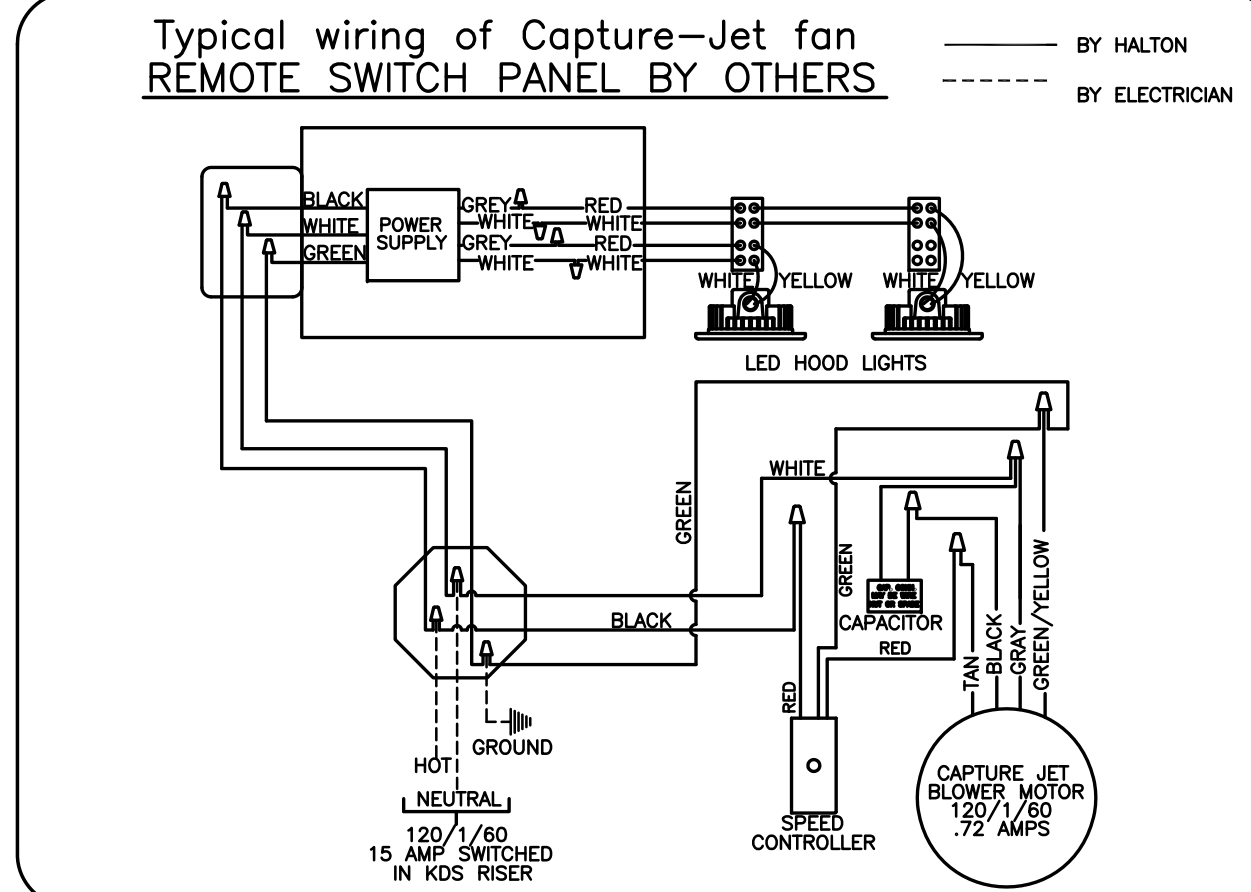
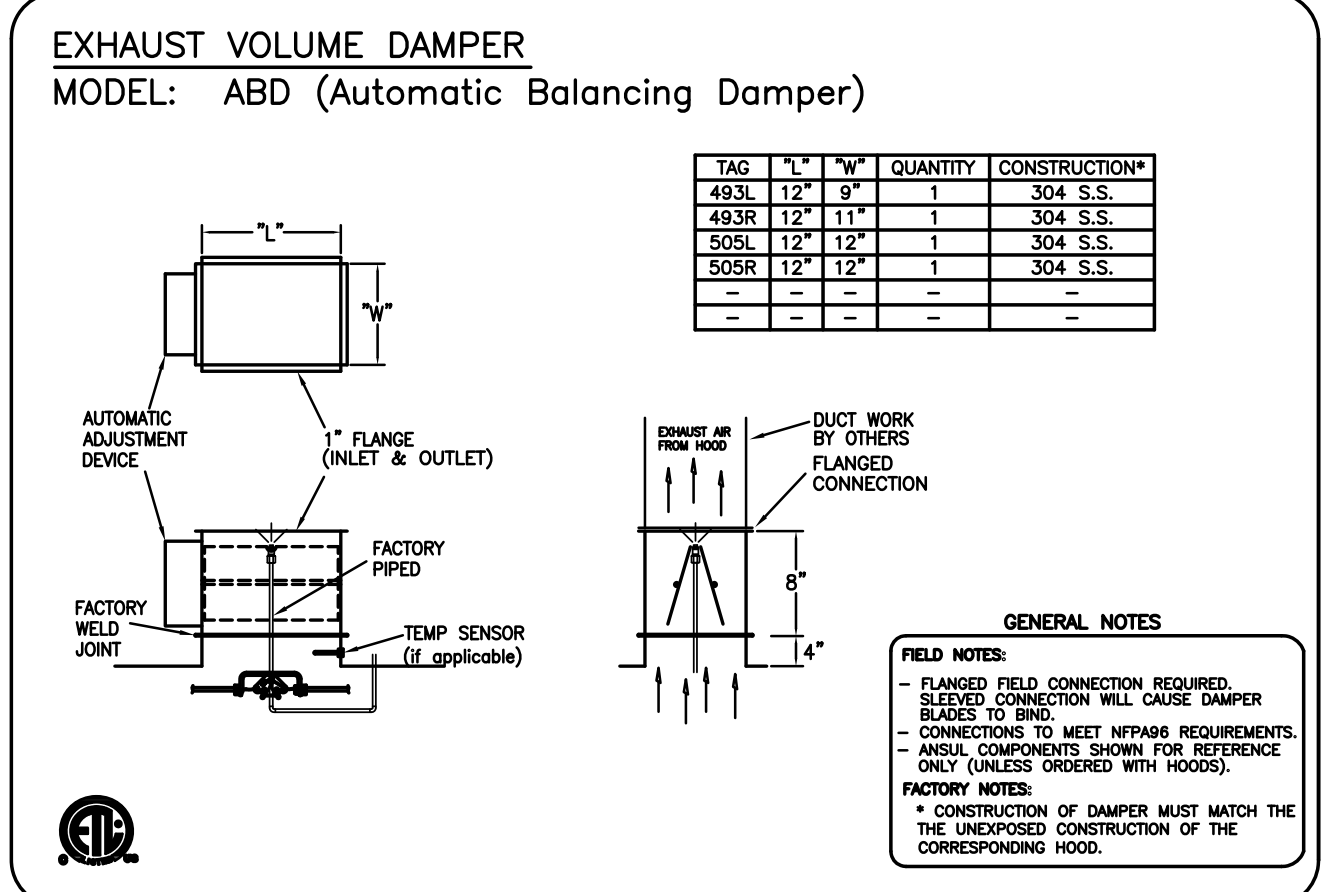
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

ELECTRICAL EQUIPMENT REQUIREMENTS

- FLUORESCENT LIGHT FIXTURE 40 WATT MAX BULB= .67 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE 150 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE 100 WATT MAX BULB= .83 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA.
  - CAPTURE JET FAN= .72 AMP EA.
- \*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*  
\*\*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*

CEILING HEIGHT NOTE

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.



**PERFORMANCE CRITERIA**

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

MANUFACTURER MUST PROVIDE A WRITTEN GUARANTEE OF PERFORMANCE, ENSURING THE SPECIFYING ENGINEER THAT THE SYSTEM WILL PERFORM TO THE ENGINEER'S SATISFACTION WHEN INSTALLED AND BALANCED ACCORDING TO DESIGN AIR FLOW. CONSULTANT RESERVES THE RIGHT TO SELECT ANY SYSTEM WHICH, WHEN INSTALLED, DOES NOT PROVIDE CAPTURE AND CONTAINMENT AT THE THRESHOLD FLOW RATE DETERMINED IN ASTM F1704. REJECTED SYSTEM MUST BE REPLACED WITH SPECIFIED SYSTEM, WITH ALL REPLACEMENT COSTS PAID BY MANUFACTURER OF REJECTED SYSTEM.

ANY CHANGES IN THE SPECIFIED SOUND OR POWER WIRING, FAN SIZE, HORSEPOWER REQUIREMENTS, OR GAS LINES DUE TO THE USE OF ANY SYSTEM OTHER THAN THAT WHICH IS SPECIFIED IS THE RESPONSIBILITY OF THE ALTERNATE HOOD MANUFACTURER, AND MUST BE COORDINATED BY THE HOOD MANUFACTURER AND CONTRACTORS INVOLVED.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

- AND CHANGES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: THIS DRAWING IS FOR INFORMATION ONLY. ANY CHANGES TO THE EQUIPMENT OR POSITIONING MAY AFFECT EXHAUST AIR FLOW. A RE-CALCULATION OF EXHAUST AIR FLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION:  WITH NO CHANGES  WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, KY 42164  
1-270-237-5600

REV.	ALL HOODS	REVISION DESCRIPTION	DATE
1	REVISED ALL HOODS	REVISED HOOD SIZES AND CFMS, ADDED NOTE	01.29.14
2	REVISED HOOD SIZES AND CFMS, ADDED NOTE	REMOVED LIGHT SWITCH FROM HOODS	04.09.14
3	REVISED HOOD SIZES AND CFMS, ADDED NOTE	REMOVED LIGHT SWITCH FROM HOODS	06.03.14
4			
5			
6			
7			

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU  
DATE: 12.04.12  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING NO.: U12-716  
REV. NO.: 3 SHEET NO.: 1 of 25

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

NO.	DESCRIPTION	DATE
XXX	APPROVED	XXX
XXX	APPROVED	XXX
XXX	APPROVED	EFW

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**STUDENT SERVERY**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #493/505**

PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. FSE-89 OF SHEETS

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

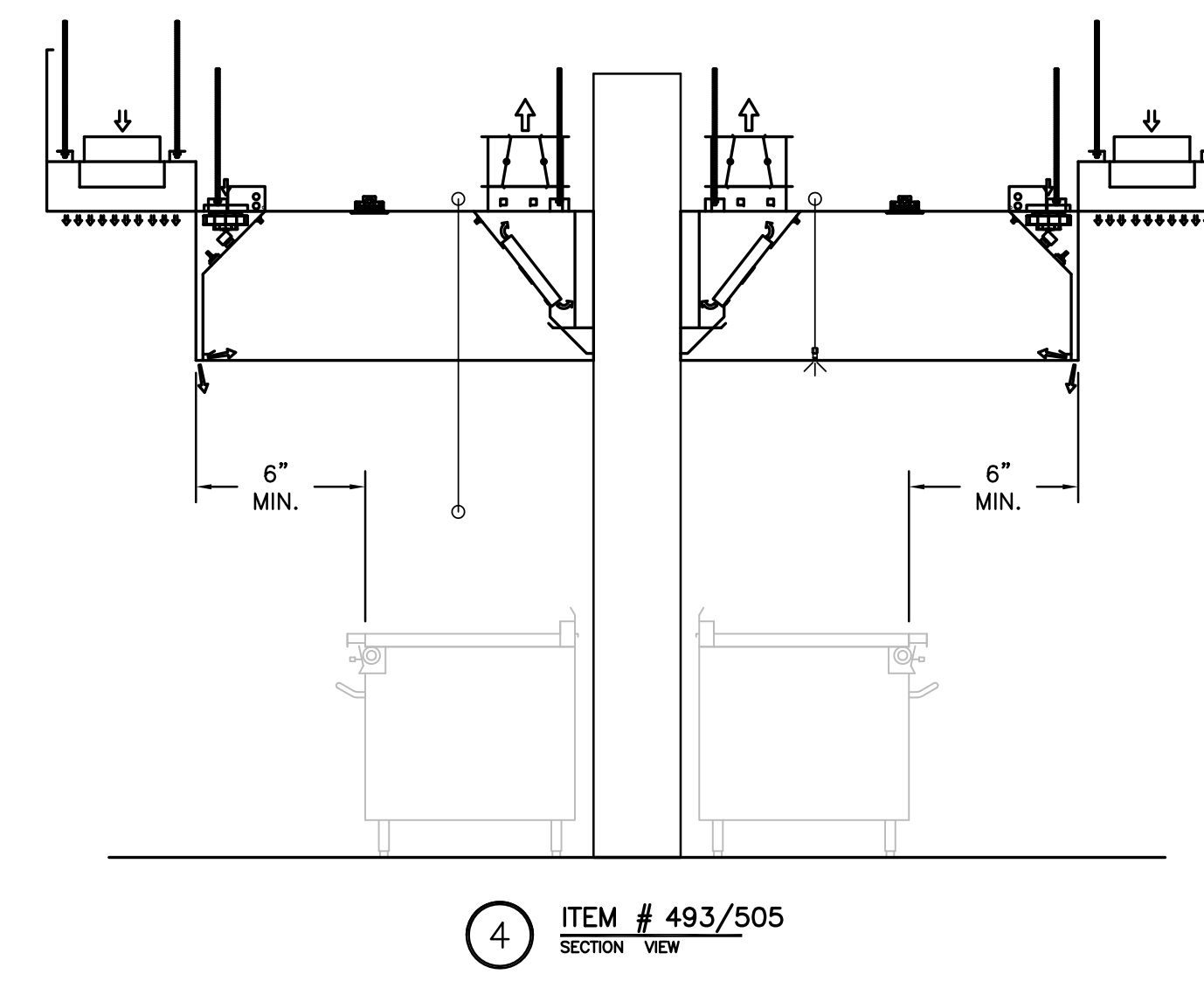
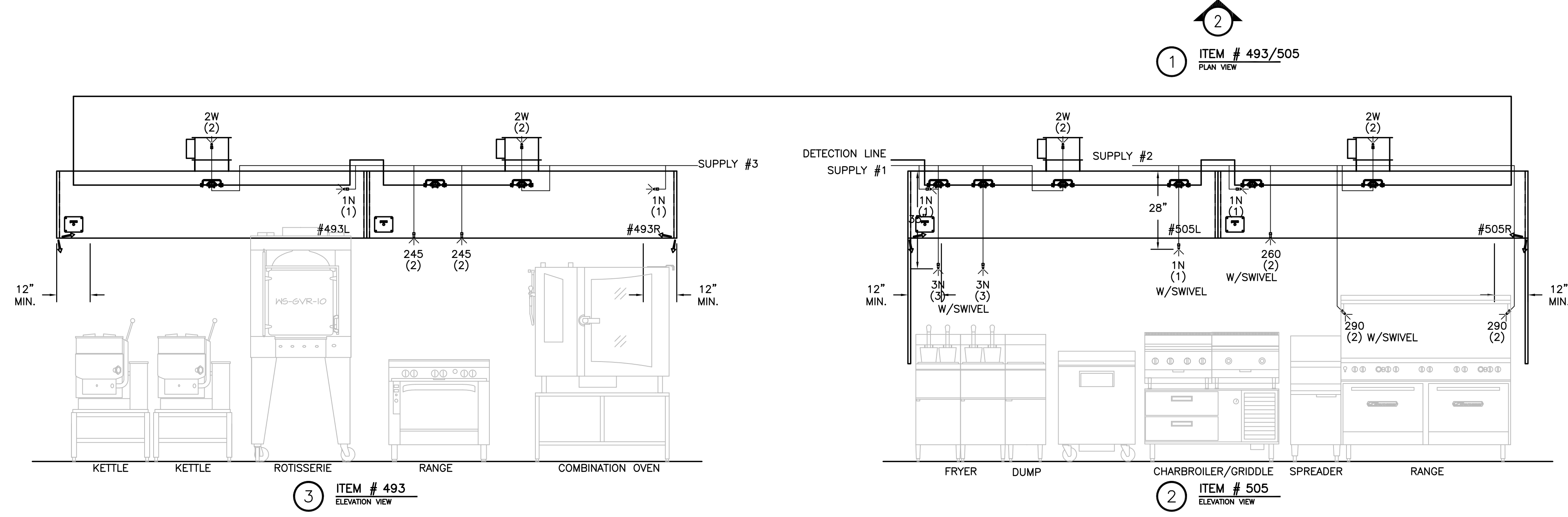
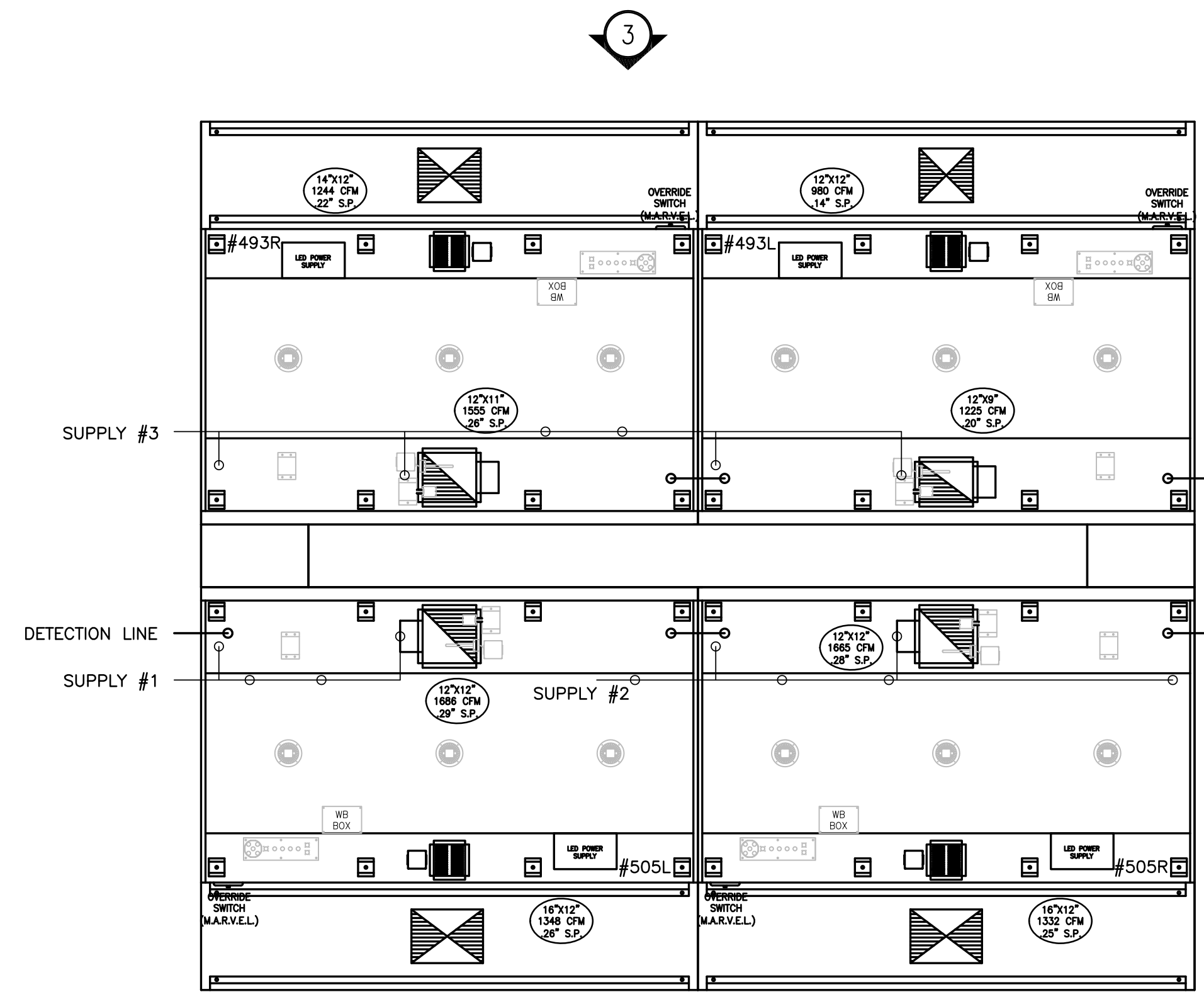
2ND FLR 400-500

RECOMMENDED PIPING

FIRE SYSTEM TO BE FURNISHED AND INSTALLED IN THE FIELD BY THE GC'S FIRE SYSTEM INSTALLATION CONTRACTOR. THIS SHEET CONTAINS HALTON'S RECOMMENDED PIPING DETAILS

NOTE

HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

1. ALL DIMENSIONS INFORMATION, MOUNTING POSITIONS AND LOCATION AND TYPE OF COOKING EQUIPMENT.
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE: TO APPROVE EXHAUST FANS AS INSTALLED, SAFETY INSPECTION EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION  WITH CHANGES AS NOTED

APPROVED BY  WITH NO CHANGES

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED ALL HOODS	WU	01.29.14
2	REVISED HOOD SIZES	WU	04.10.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4			
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-716
REV. NO.:	3
SHEET NO.:	2 of 25

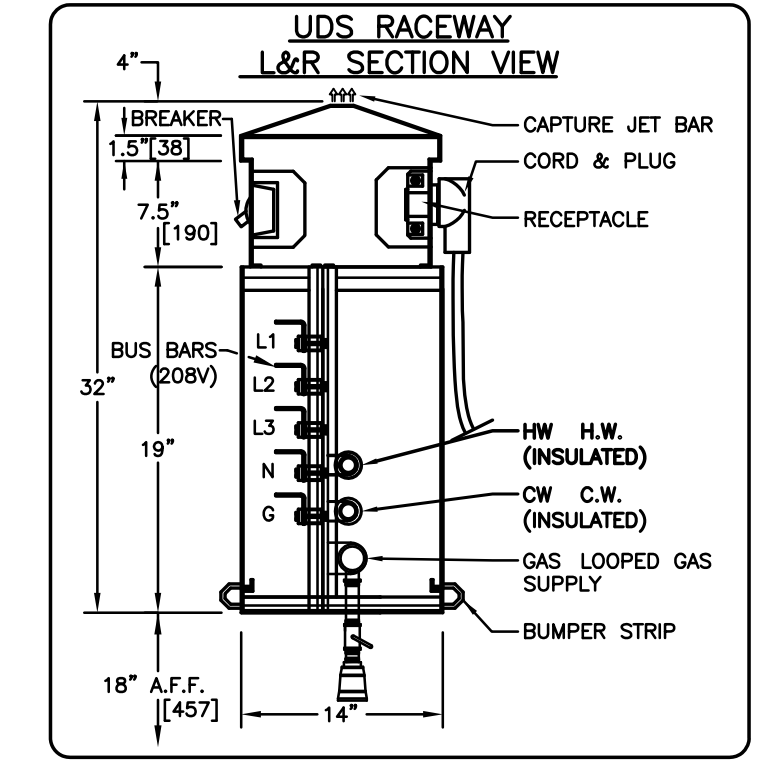
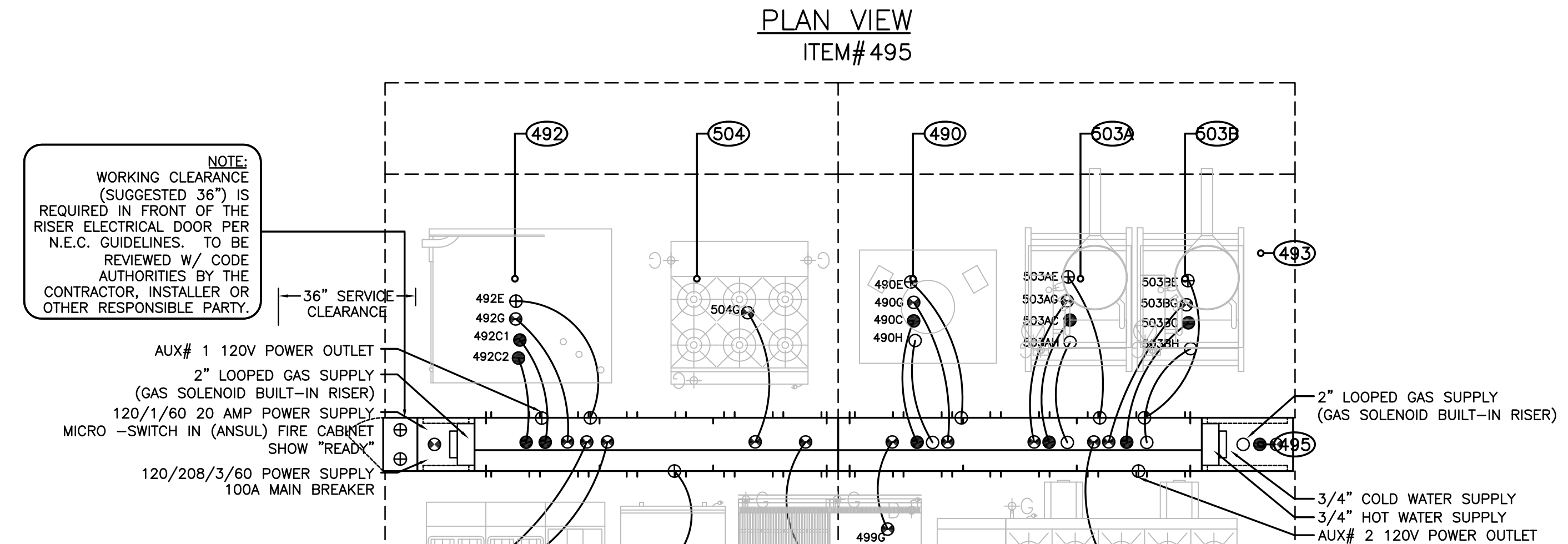
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>STUDENT SERVERY</b>		PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		DATE DEC. 12, 2014
<b>HALTON - PLANS and DETAILS #494/506 - FIRE SYSTEM</b>		SHEET NO. FSE-90 OF SHEETS
<b>CITY CENTER CAMPUS</b>		
<b>JOLIET JUNIOR COLLEGE</b>		





### GENERAL NOTES FOR UTILITY DISTRIBUTION SYSTEM

**FOOD SERVICE EQUIPMENT CONTRACT REQUIREMENTS**

- VERIFY MAKE, MODEL, UTILITY REQUIREMENTS AND LOCATION OF ALL EQUIPMENT TO BE SERVICED BY UTILITY SYSTEM.
- VERIFY ALL UTILTY RUGH-IN'S.
- DISTRIBUTE SUBMITTAL DRAWINGS, INSTALLATION MANUALS, OPERATION MANUALS, ETC. TO RESPECTIVE TRADES AND END USERS.
- DELIVERY AND INSTALLATION OF UNITS) PER DRAWINGS. VERIFY COMPLIANCE WITH ALL LOCAL CODES & AGENCIES.

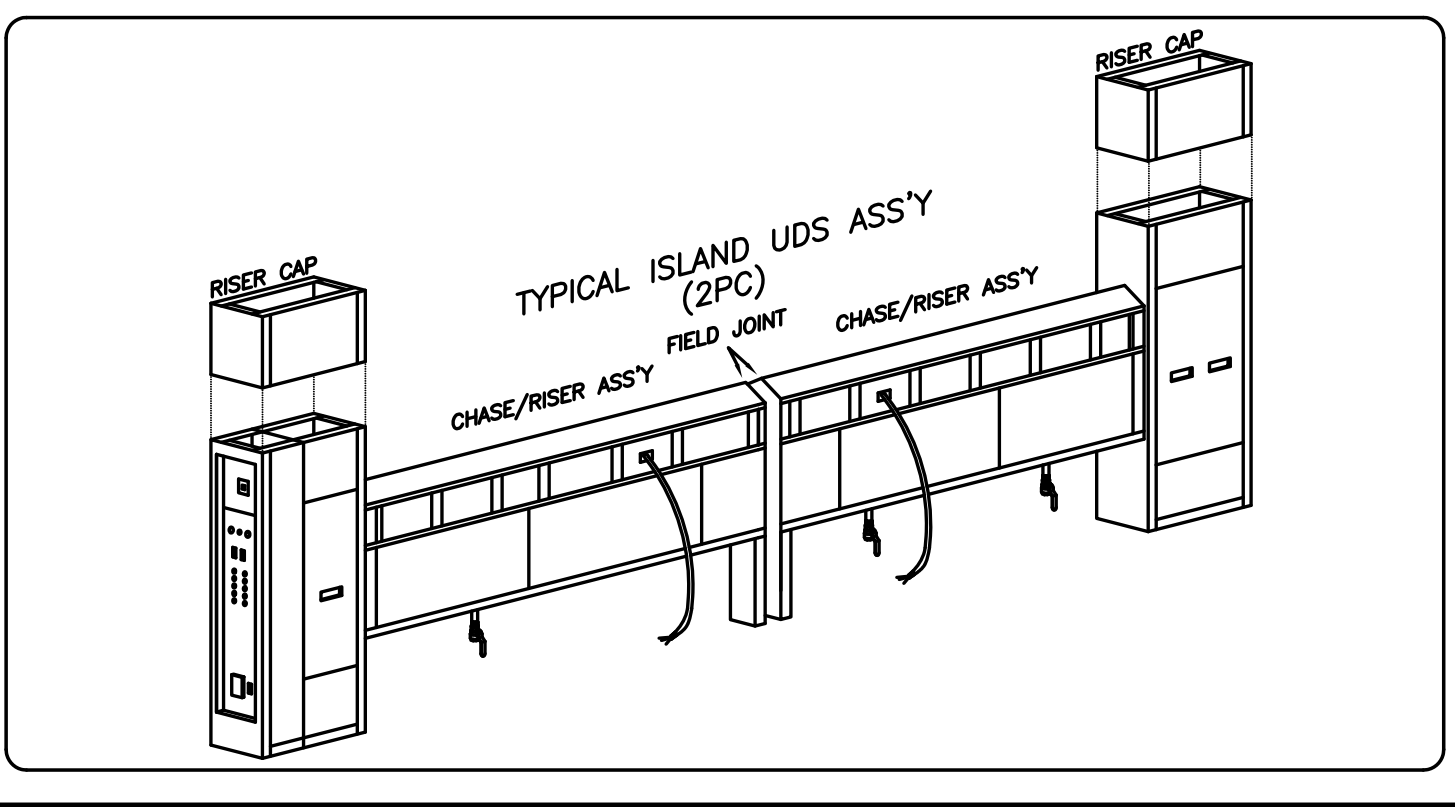
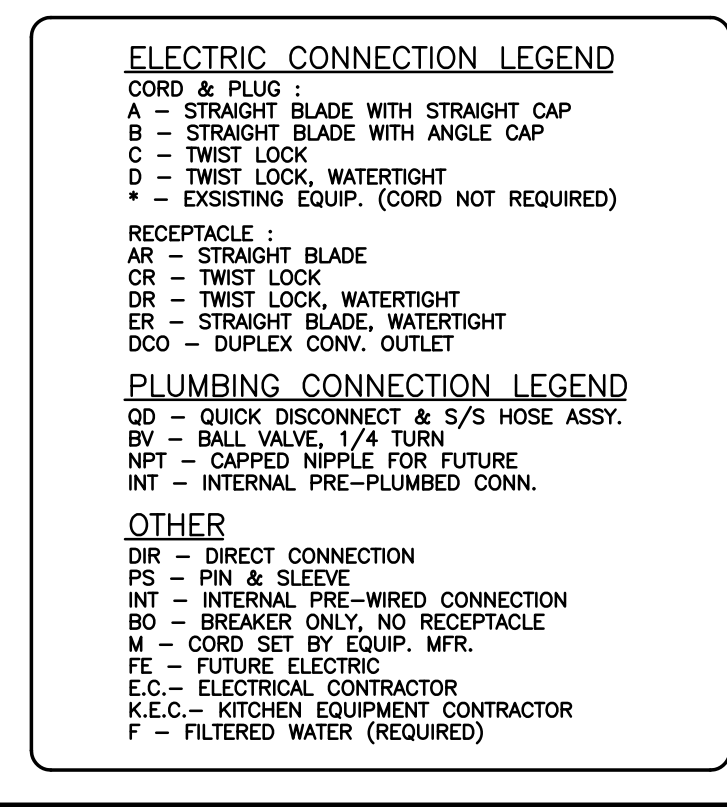
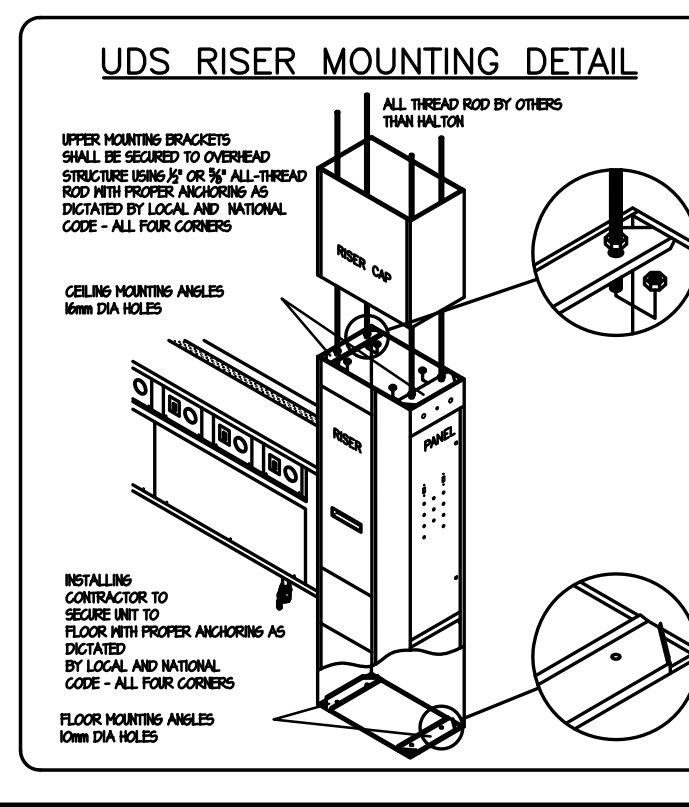
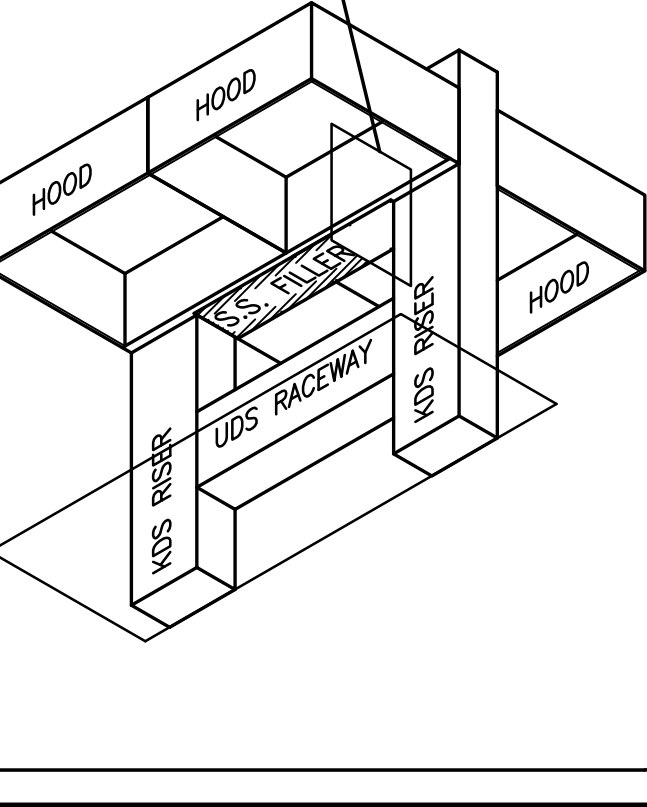
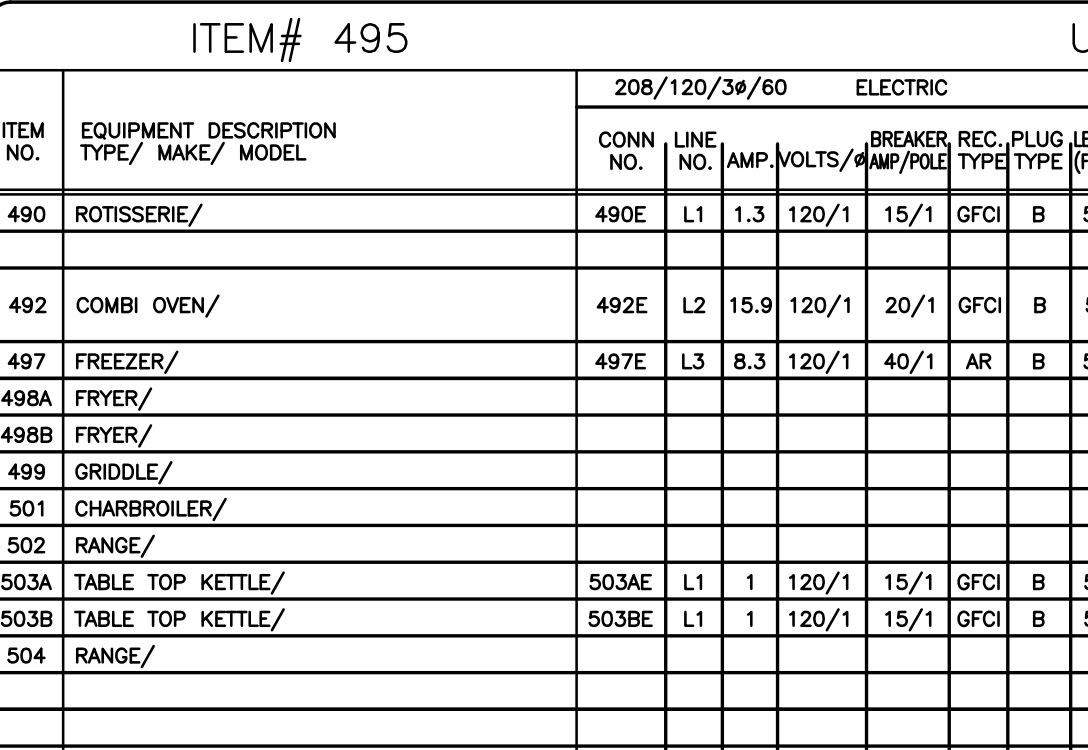
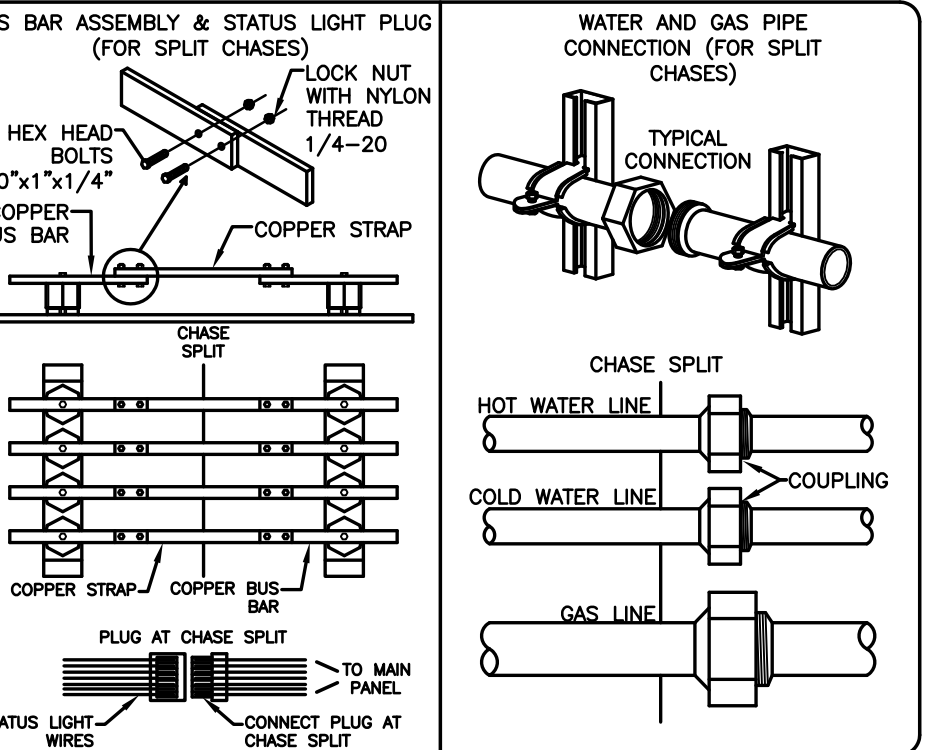
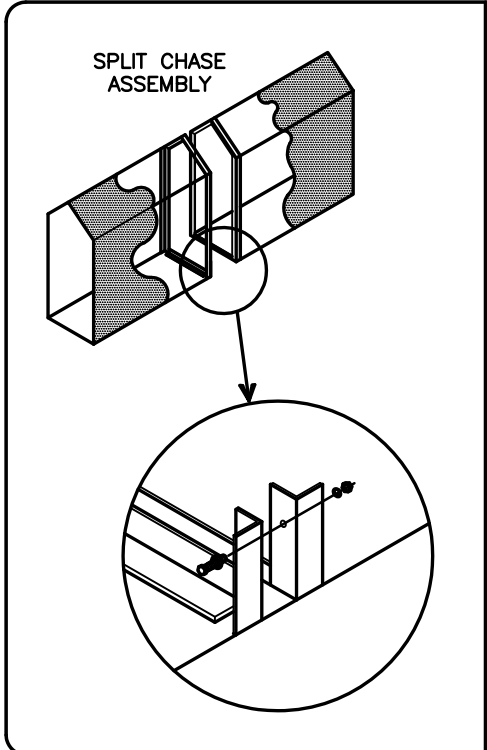
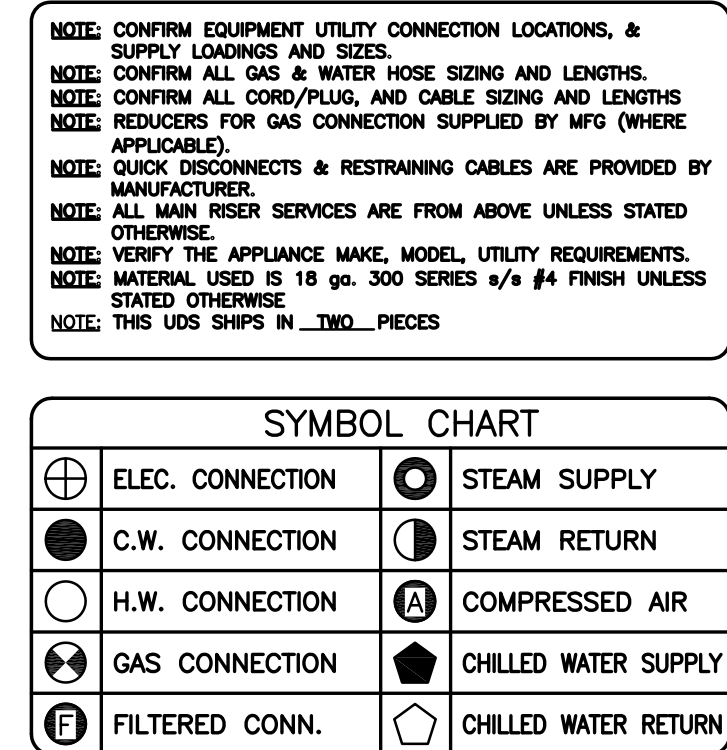
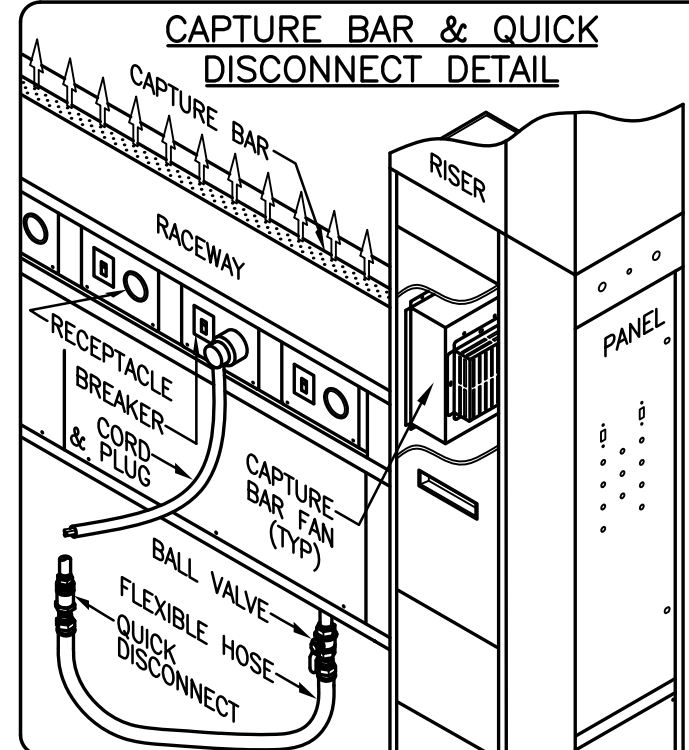
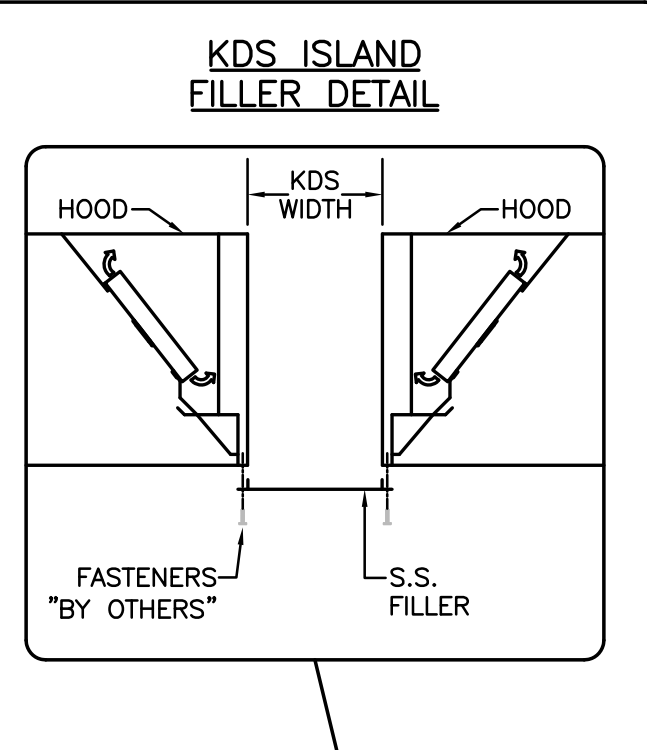
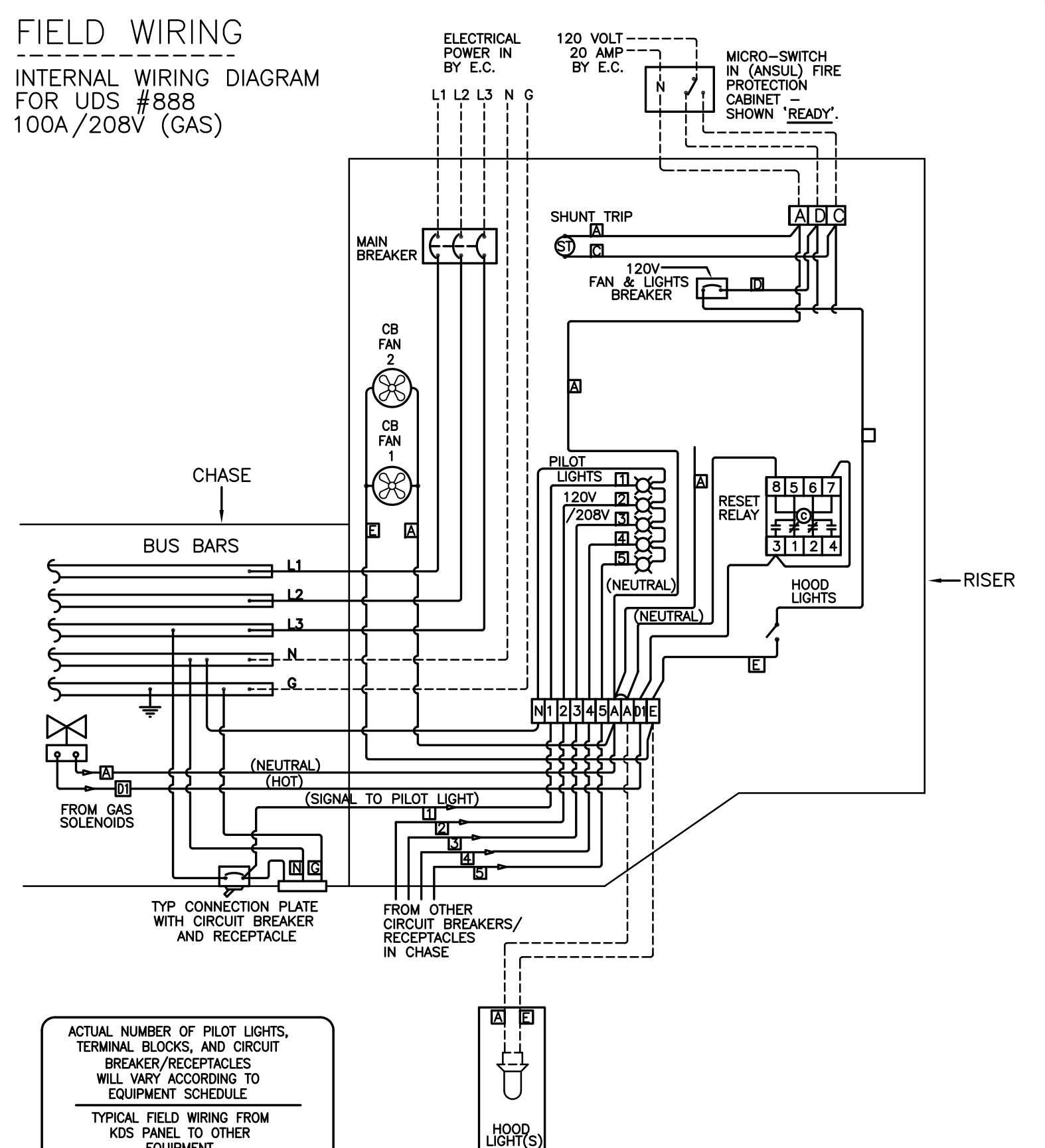
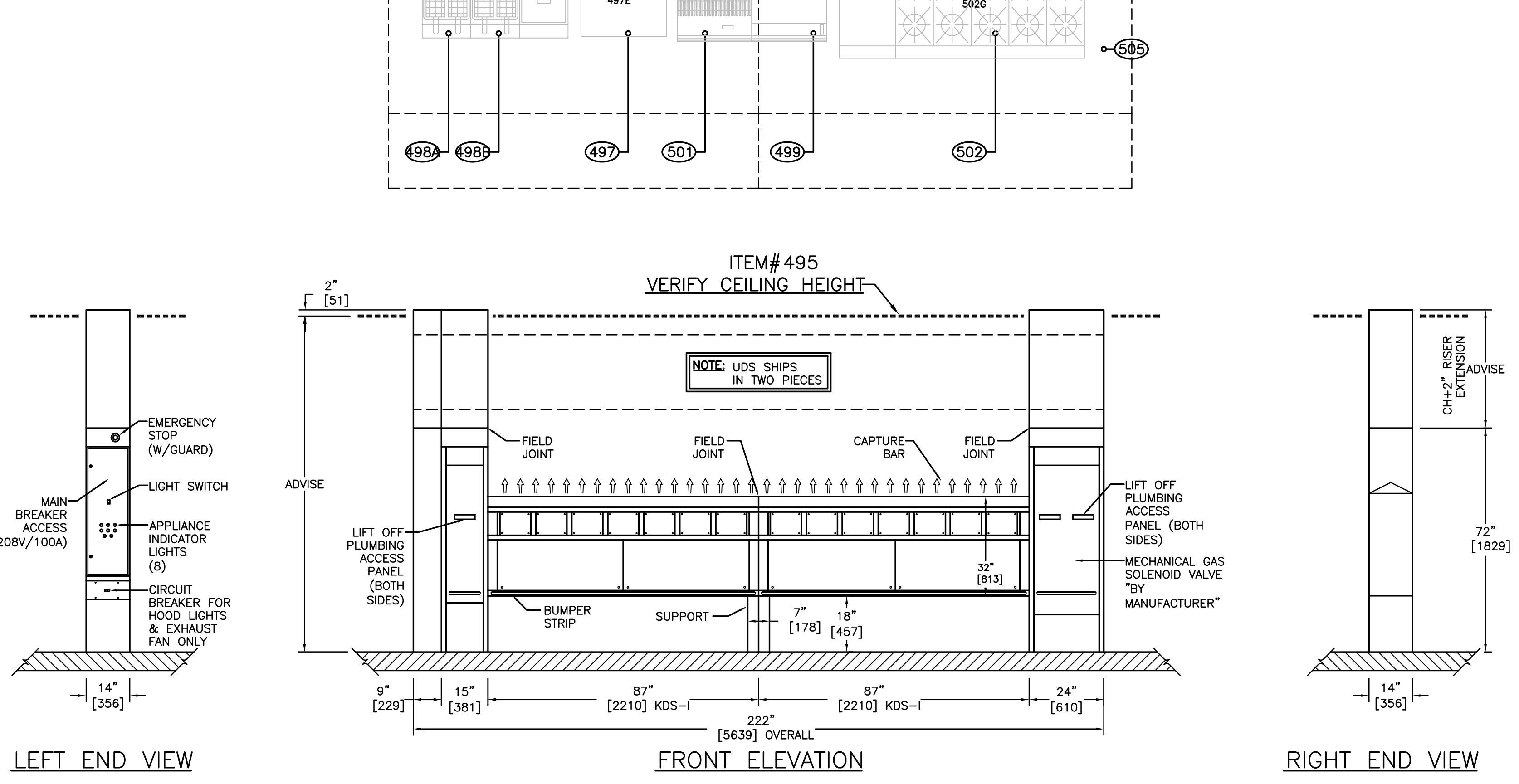
**ELECTRICAL SERVICE EQUIPMENT CONTRACT REQUIREMENTS**

- INSTALL 2 WIRE CIRCUIT AND MATERIALS REQUIRED TO TERMINAL BLOCKS FOR VENTILATOR CONTROLS AND FIRE PROTECTION CIRCUIT.
- INTERCONNECT LIGHT SWITCH(S) LOCATED IN UTILITY RISER TO VENTILATOR HOOD LIGHTS. LOCATION OF FIXTURE J-BOX SHOWN ON VENTILATOR HOOD DRAWINGS.
- INSPECT FOR LOOSE CONNECTIONS (CAUSED BY SHIPPING) AND TIGHTEN AS REQUIRED.
- REMOVE AND REPLACE ACCESS PANELS AND ENCLOSURES NECESSARY FOR CONNECTION AND INSTALLATION OF SYSTEM.
- INSTALL ELECTRICAL SERVICE(S) I.E. CONDUIT WIRING AND OVERLOAD PROTECTION DEVICE(S) RATED AT A CONTINUOUS OPERATING LOAD OF:

**PLUMBING CONTRACT REQUIREMENTS**

- PROVIDE GAS SERVICE AND CONNECTIONS OF THE SAME TO CONNECTION POINT AS SHOWN ON HALTON DRAWING [2.00] MHP # 7.
- PROVIDE COLD WATER SERVICE AND CONNECTION OF SAME TO CONNECTION POINT AS SHOWN ON HALTON DRAWING [0.75] NPT, 40 PSIG, MAX. 140°F TO 180°F.
- PROVIDE HOT WATER SERVICE AND CONNECTION OF SAME TO CONNECTION POINT AS SHOWN ON HALTON DRAWING [0.75] NPT, 40 PSIG.
- INTERCONNECT ALL FIRE CONNECTION UNIONS AT FIELD JOINT. ALL UNIONS PROVIDED AND PRE-FITTED AT FACTORY.
- REMOVAL AND REPLACEMENT OF ACCESS PANELS, DOORS, ENCLOSURE TRIM, ETC. NECESSARY FOR PROVIDING FIELD CONNECTIONS FOR SYSTEM.
- TEST ALL FIELD JOINTS FOR LEAKAGE. TIGHTEN AS REQUIRED. TEST ALL FACTORY JOINTS AND FITTINGS FOR LEAKAGE RESULTING FROM SHIPPING AND HANDLING.
- ALL OTHER CONNECTIONS REQUIRED FOR ACCESSORY EQUIPMENT, CONNECTIONS AND INSULATION BY PLUMBING CONTRACTOR.
- COST OF FIELD TESTING AND CERTIFYING BACK FLOW PREVENTERS TO BE PERFORMED BY THE PLUMBER OR OTHER TRADE AFTER INSTALLATION IS COMPLETED AND MET BY HALTON.

100 AMPS 208/120/3# VOLTS



### ITEM# 495 UTILITY SCHEDULE FOR UDS

ITEM NO.	EQUIPMENT DESCRIPTION TYPE / MAKE / MODEL	ELECTRIC					COLD WATER					HOT WATER					REMARKS		
		CONN. NO.	LINE NO.	AMP.	VOLTS.	BREAKER REC. PLUG/TYPE (FT)	CONN. NO.	HOSE INCH.	CONN. DIA. (IN)	CONN. DIA. (IN)	CONN. DIA. (IN)	CONN. DIA. (IN)	CONN. DIA. (IN)	CONN. DIA. (IN)					
490	ROTISSERIE/	490E	L1	1.3	120/1	20/1	GFCI	B	5	490G	185	3/4"	3/4"	BV, QD	5				
492	COMBI OVEN/	492E	L2	15.9	120/1	20/1	GFCI	B	5	492G	133	3/4"	3/4"	BV, QD	5	492C1	3/4"	QD	5
497	FREEZER/	497E	L3	8.3	120/1	40/1	AR	B	5						492C2	3/4"	QD	5	
498A	FRYER/									498AG	110	1-1/4"	1-1/4"	BV, QD	5				
498B	FRYER/									498BG	110	1-1/4"	1-1/4"	BV, QD	5				
499	GRIDDLE/									499G	40	3/4"	3/4"	BV, QD	5				
501	CHARBROILER/									501G	60	1-1/4"	1-1/4"	BV, QD	5				
502	RANGE/									502G	408	1-1/4"	1-1/4"	BV, QD	5				
503A	TABLE TOP KETTLE/	503AE	L1	1	120/1	15/1	GFCI	B	5	503AC	52	1/2"	1/2"	BV, QD	5	503AH	1/2"	QD	5
503B	TABLE TOP KETTLE/	503BE	L1	1	120/1	15/1	GFCI	B	5	503BC	52	1/2"	1/2"	BV, QD	5	503BH	1/2"	QD	5
504	RANGE/									504G	236	1-1/4"	1-1/4"	BV, QD	5				

LX	HOOD LIGHTS/ FAN SWITCH																	
AUX1	CONVENIENCE OUTL.#1-DOD	AUX1	L1	12	120/1	15/1	GFCI											
AUX2	CONVENIENCE OUTL.#2-DOD	AUX2	L3	12	120/1	15/1	GFCI											

APPLANCE LOAD PER LINE  
MFG SYSTEM CAPACITY  
FUTURE RESERVE  
APPROXIMATE WEIGHT=

208/120/3#/60 ELECTRIC  
1284 MBH  
2900 MBH  
1616 MBH  
59.7 AMPS  
100 AMPS  
2" NPT # 7" W.C.  
40 PSIG  
40 PSIG  
COLD WATER  
HOT WATER  
WATER FILTER

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

### REVISIONS

NO.	DESCRIPTION	DATE	BY	CHKD
1	Issued for Construction	07/31/15	XXX	XXX
2			XXX	XXX
3			XXX	EFW

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**STUDENT SERVERY  
ISSUED FOR CONSTRUCTION  
UTILITY DISTRIBUTION SYSTEM DETAILS #495**

**CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE**

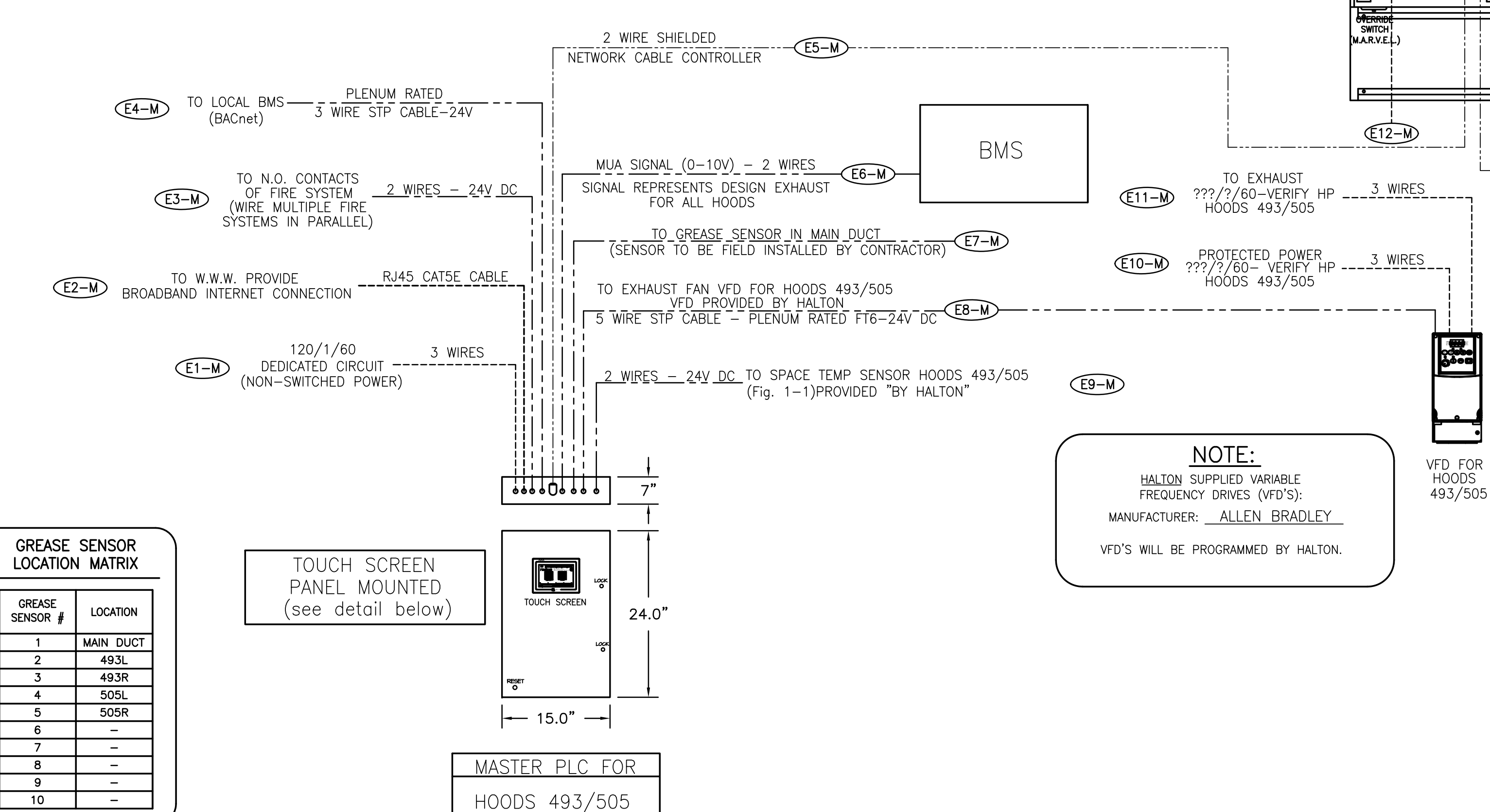
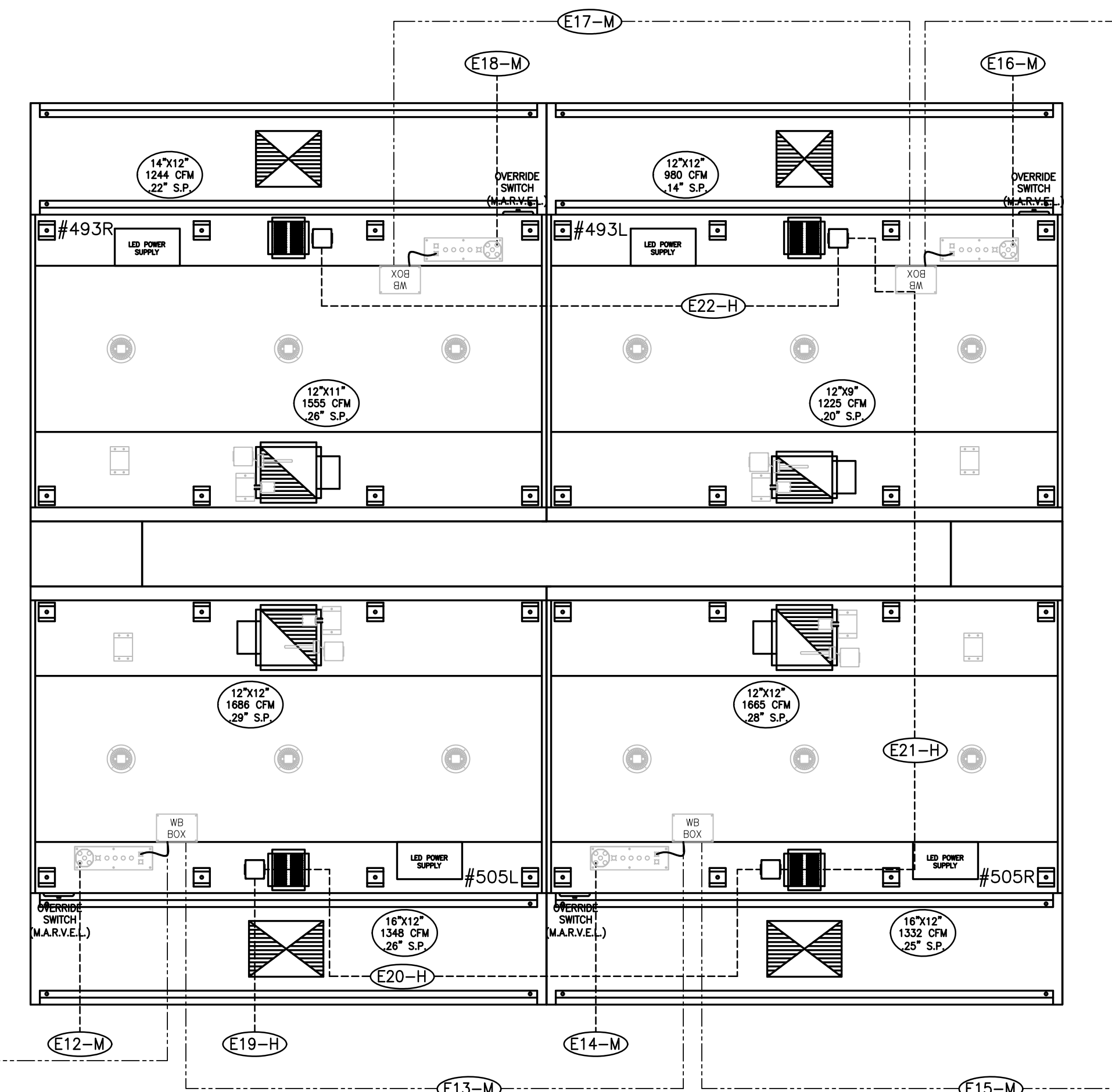
PROJECT NO.  
CDB 810-048-023

DATE  
DEC. 12, 2014

SHEET NO.  
**FSE-91**  
OF SHEETS

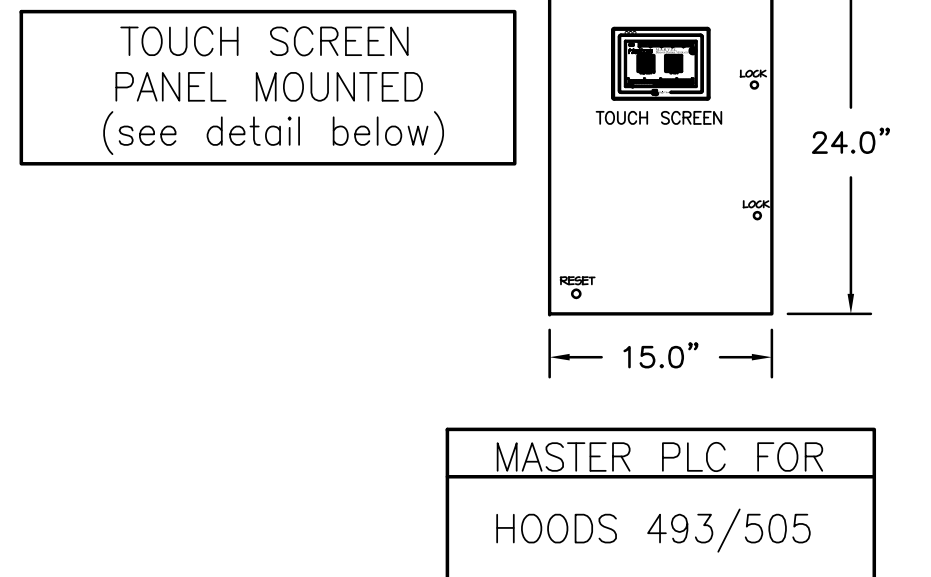


# 2ND FLR 400-500



**GREASE SENSOR LOCATION MATRIX**

GREASE SENSOR #	LOCATION
1	MAIN DUCT
2	493L
3	493R
4	505L
5	505R
6	--
7	--
8	--
9	--
10	--



**NOTE:**  
HALTON SUPPLIED VARIABLE FREQUENCY DRIVES (VFD'S);  
MANUFACTURER: ALLEN BRADLEY  
VFD'S WILL BE PROGRAMMED BY HALTON.

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

**FAN CONFIGURATION DATA FOR M.A.R.V.E.L.**

Exhaust Data:

EF Item #: \_\_\_\_\_ Voltage/Phase/Hz: \_\_\_\_\_  
 Hood Item #'s connected to this fan: \_\_\_\_\_  
 EF HP: \_\_\_\_\_

EF Item #: \_\_\_\_\_ Voltage/Phase/Hz: \_\_\_\_\_  
 Hood Item #'s connected to this fan: \_\_\_\_\_  
 EF HP: \_\_\_\_\_

EF Item #: \_\_\_\_\_ Voltage/Phase/Hz: \_\_\_\_\_  
 Hood Item #'s connected to this fan: \_\_\_\_\_  
 EF HP: \_\_\_\_\_

EF Item #: \_\_\_\_\_ Voltage/Phase/Hz: \_\_\_\_\_  
 Hood Item #'s connected to this fan: \_\_\_\_\_  
 EF HP: \_\_\_\_\_

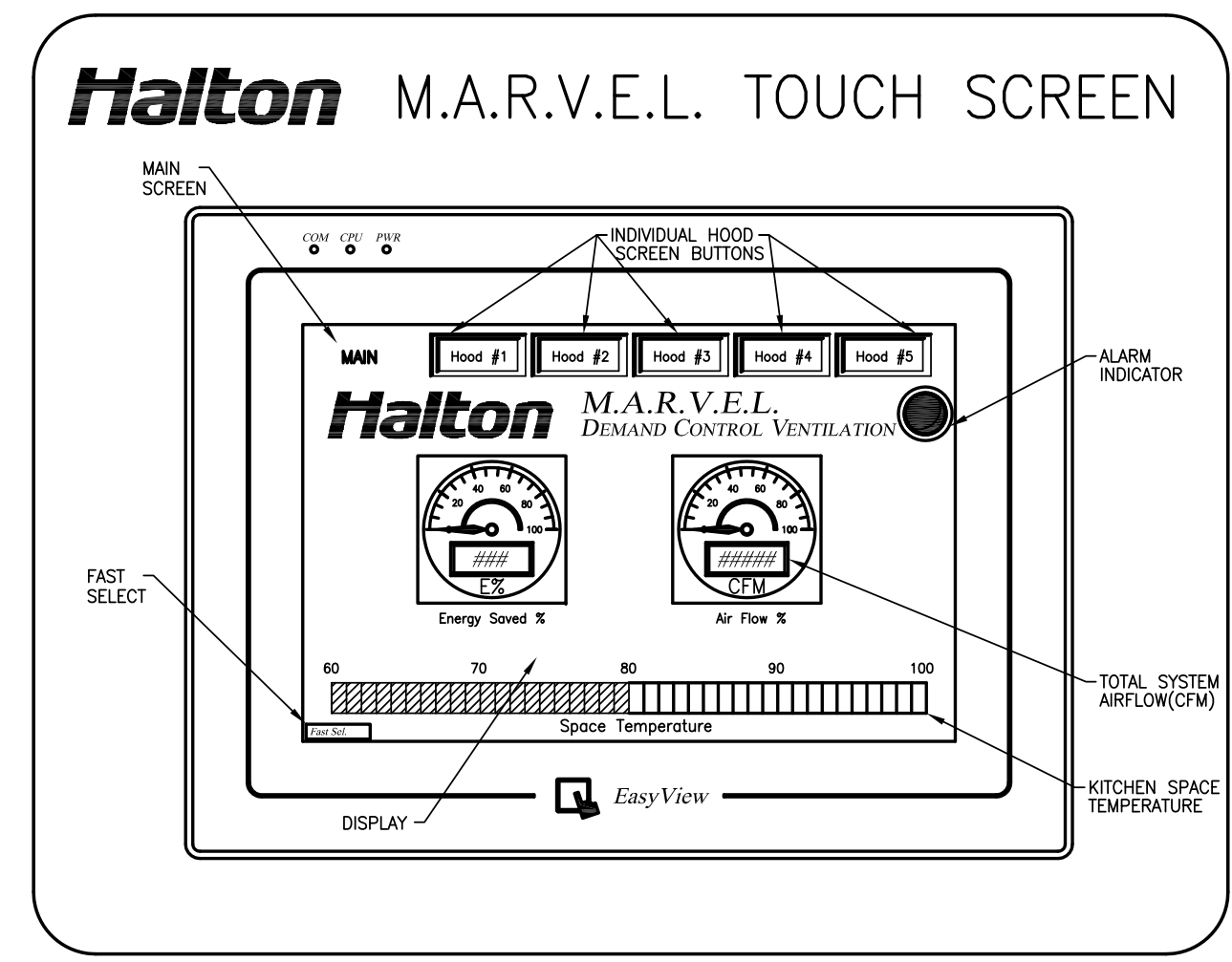
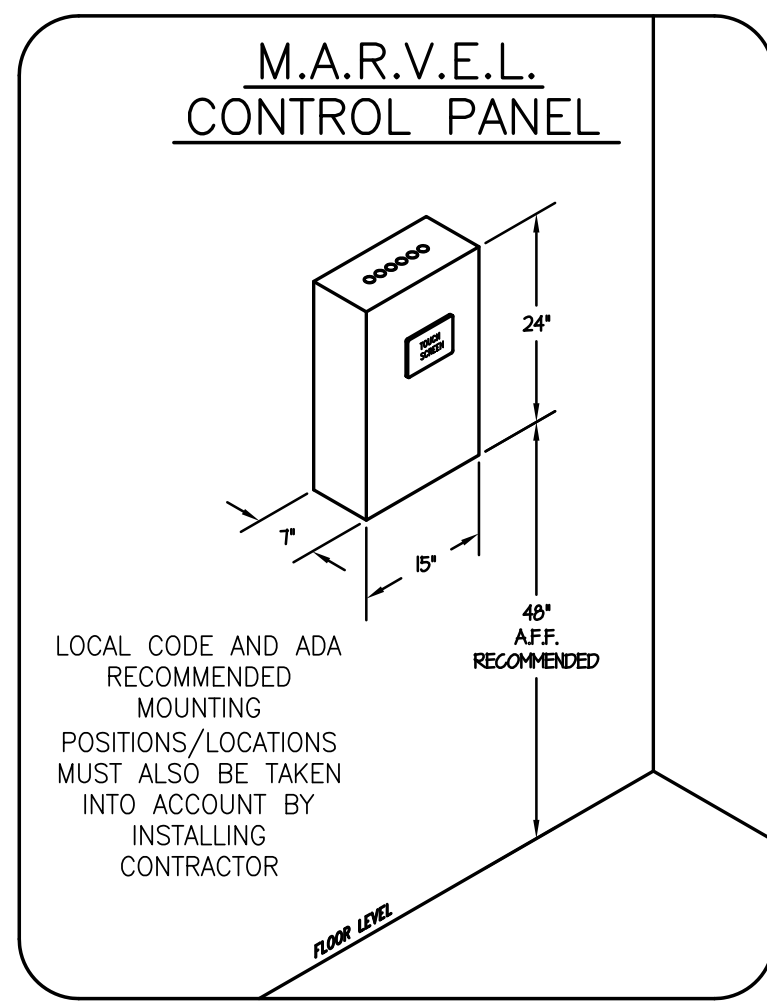
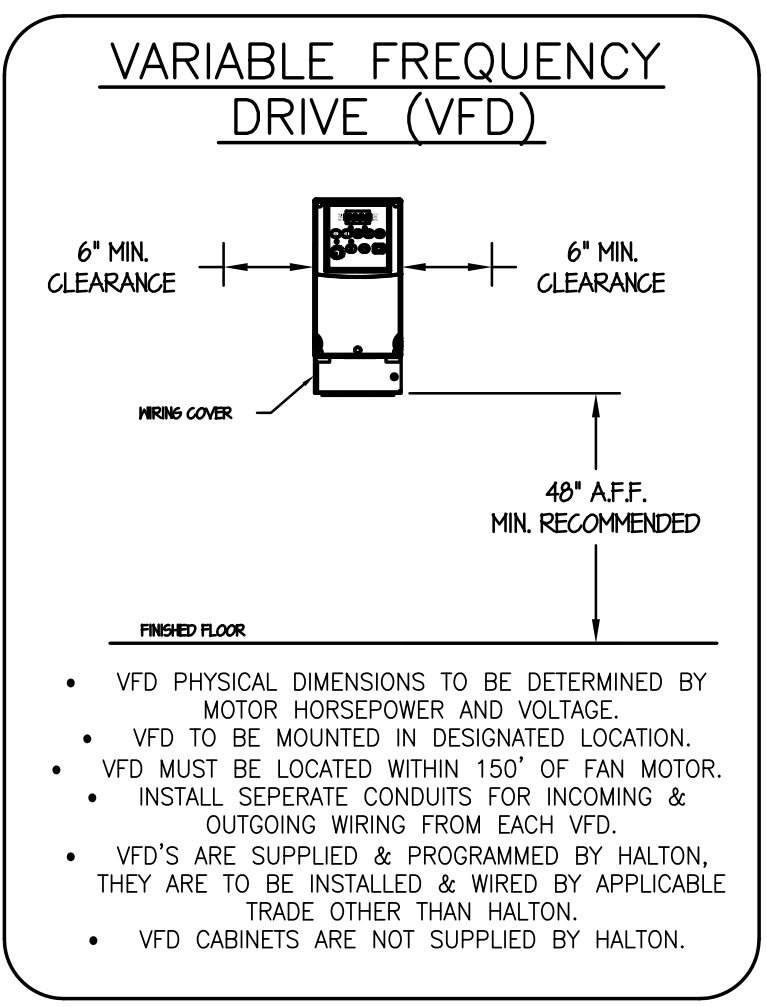
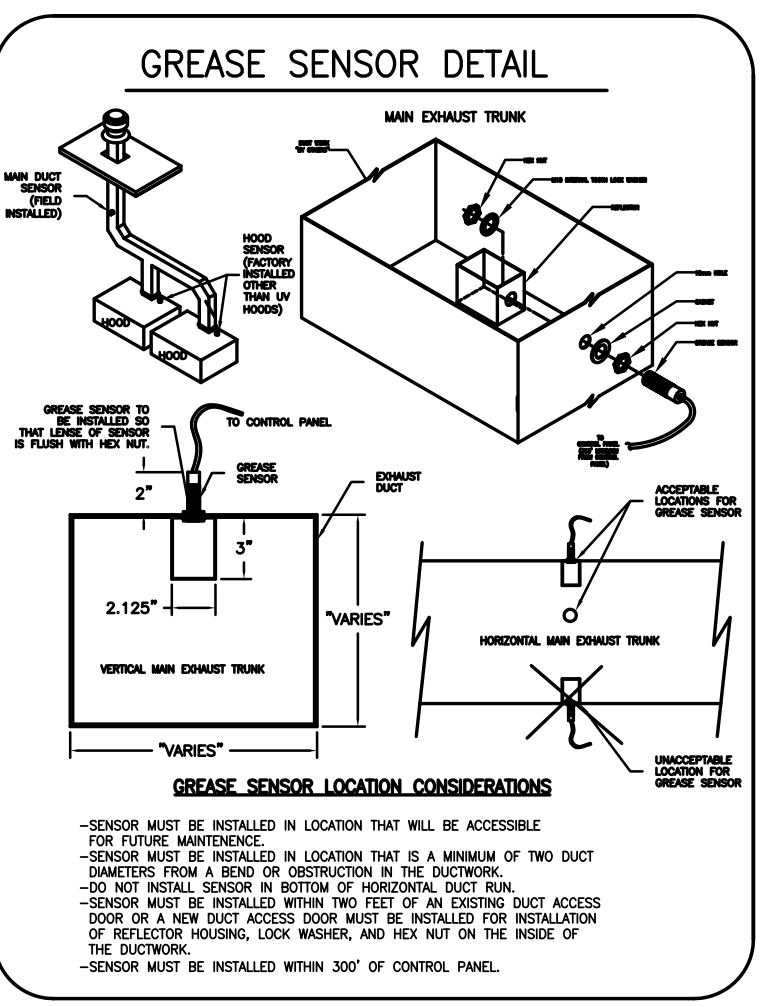
Make Up Air Data:  
 Quantity of MUA Zones: \_\_\_\_\_  
 Hood Item #'s located in Zone 1: \_\_\_\_\_  
 Hood Item #'s located in Zone 2: \_\_\_\_\_

NOTE: Above information must be completed in full prior to project being released for production. If more than four exhaust fans of two MUA zones are being used, please provide this data on wall.

## M.A.R.V.E.L. SCOPE OF WORK

- RESPONSIBILITY TO BE SELECTED BY GENERAL CONTRACTOR
- DEFINITIONS FOR REFERENCE:**
- M.A.R.V.E.L. I SYSTEMS = 1 EXHAUST FAN SERVING 1 KITCHEN HOOD
  - M.A.R.V.E.L. II SYSTEMS = 1 EXHAUST FAN SERVING MULTIPLE KITCHEN HOODS
  - VFD = VARIABLE FREQUENCY DRIVES
- CONNECTION LOCATIONS WILL VARY PER SYSTEM, REFER TO HALTON M.A.R.V.E.L. DIAGRAMS FOR SPECIFICS
- APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE M.A.R.V.E.L. CONTROL PANEL. LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN SAME SPACE AS THE KITCHEN HOODS BEING SERVED BY PANEL. (M.A.R.V.E.L. I HOOD SYSTEMS WILL NOT HAVE SUCH PANEL)
  - APPLICABLE CONTRACTOR TO INSTALL SPACE TEMP SENSOR (SUPPLIED BY HALTON) IN SAME SPACE AS KITCHEN HOOD SYSTEM AND 48"-54" A.F.F. NEAREST MUA T-STAT.
  - APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL R445 CAT5E CABLE CONNECTION AT M.A.R.V.E.L. CONTROL PANEL FOR M.A.R.V.E.L. I SYSTEMS OR AT KITCHEN HOOD FOR M.A.R.V.E.L. I SYSTEMS FOR I.P. ADDRESS.
  - APPLICABLE CONTRACTOR SHALL SUPPLY AND RUN 2 WIRE 24V DC CONNECTION FROM SPACE TEMP SENSOR TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR TO KITCHEN HOOD (M.A.R.V.E.L. I)
  - APPLICABLE CONTRACTOR SHALL SUPPLY AND RUN 2 WIRE 24V DC WIRING FROM ANSL FIRE SYSTEM EITHER TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR TO KITCHEN HOOD (M.A.R.V.E.L. I).
  - APPLICABLE CONTRACTOR SHALL CONNECT 2 WIRE COMMUNICATION CABLES (SUPPLIED BY HALTON) FROM HOOD TO HOOD AND TO PANEL AS SHOWN IN HALTON M.A.R.V.E.L. DIAGRAM
  - APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE MUA SIGNAL (0-10V) FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. II) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO BMS OR DDC.
  - APPLICABLE CONTRACTOR TO SUPPLY AND RUN 5 WIRE STP PLENUM RATED CABLE FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO EXHAUST FAN VFD(S) (VFD'S AND CABINET SUPPLIED BY HALTON UNLESS OTHERWISE NOTED)
  - APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE VFD(S). LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN 150 FEET MAX DISTANCE FROM EXHAUST FAN(S)
  - APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FEED FROM CIRCUIT BREAKER(S) TO VFD(S). APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FROM VFD(S) TO EXHAUST / MUA (IF APPLICABLE) MOTORS. ALL TO BE RAN IN SEPARATE CONDUIT.
  - APPLICABLE CONTRACTOR SHALL INSTALL GREASE SENSOR(S) IN MAIN EXHAUST TRUNK, AND WIRE THE SENSOR BACK TO THE DESIGNATED LOCATION.
  - APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT EACH KITCHEN HOOD. (IF HOODS ARE LV, A SECOND 115V DEDICATED CIRCUIT IS REQUIRED.)
  - INSTALLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING ADEQUATE ACCESS TO ALL COMPONENTS LOCATED ABOVE HOOD.
  - HALTON REPRESENTATIVE TO PERFORM FINAL FIELD COMMISSIONING ONCE ALL RESPONSIBILITIES ARE COMPLETED ABOVE.

- NOTES:**
- ALL WIRING AND CABLEING TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS STATED OTHERWISE
- NOTES:**
- ALL FAN MOTORS MUST BE COMPATIBLE WITH VARIABLE FREQUENCY DRIVES (VFD'S). MOTORS THAT ARE 1 HP AND ABOVE MUST BE CONNECTED TO THREE PHASE POWER.
- NOTES:**
- ALL VARIABLE FREQUENCY DRIVES (VFD'S) MUST BE INSTALLED WITHIN 150' OF THE EXHAUST FAN.



**M.A.R.V.E.L. SYSTEM**

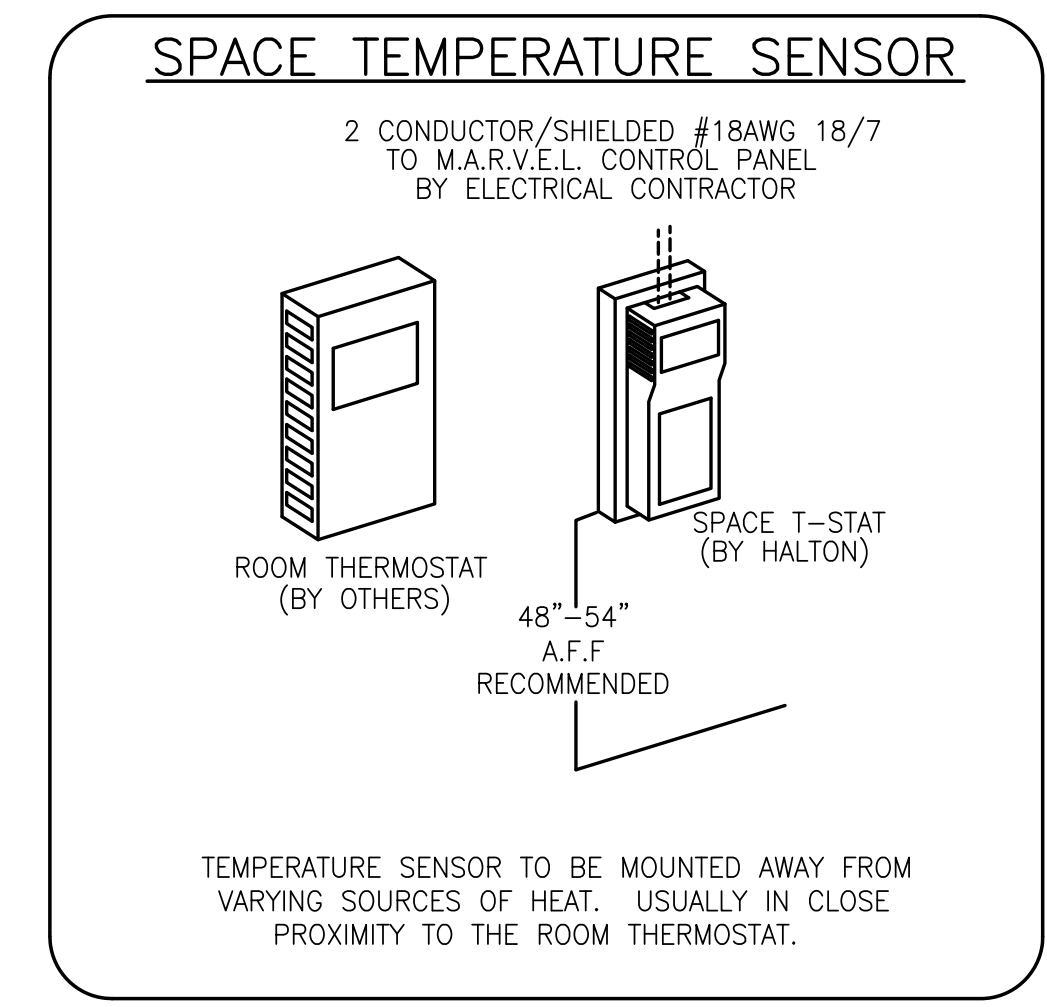
**M.A.R.V.E.L. EQUIPMENT CONNECTED LOADS**

M.A.R.V.E.L. CONTROL PANEL = 10 AMPS EA.  
 M.A.R.V.E.L. PLC AT EACH HOOD SECTION = 4 AMPS EA.

**\*\*ALL CIRCUITS ARE NOT TO EXCEED 15 AMP\*\***

**NOTES:**

- FIELD WIRING (BY E.C.) - 120V - 12AWG MIN - 10AWG MAX.
- FIELD WIRING (BY E.C.) - 24V - 22AWG MIN - 16AWG MAX.
- SHIELDED NETWORK CABLES - PROVIDED BY HALTON FIELD INSTALLED BY OTHERS



(FIG 1-1)

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

PROJECT: JOLIET JUNIOR COLLEGE

LOCATION: JOLIET, IL

DRAWN BY: WJ DATE: 01.28.14

SCALE: NOT TO SCALE

CONSULTANT: E.F. WHITNEY

REVISION DESCRIPTION

REV.	DATE	DESCRIPTION
1	01.28.14	INCLUDED MARVEL SHEETS
2	04.09.14	REVISED HOODS 493/505
3	06.03.14	REMOVED LIGHT SWITCHES FROM HOODS
4		
5		
6		
7		

FACTORY BELOW: HALTON CO. (CANADA) 1021 BREVK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0501

FACTORY BELOW: HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600

DRAWING NO.: U12-716

REV. NO.: 3

SHEET NO.: 19 of 25

DATE

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN: XXX OFF.

PREPARED: XXX OFF.

TRACED: XXX

CHECKED: XXX

APPROVED: EFW

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

**dkA** DEMONICA KEMPER ARCHITECTS

125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000

**KJW** KJWW ENGINEERING

1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.

568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990

**STUDENT SERVERY**

**ISSUED FOR CONSTRUCTION**

**M.A.R.V.E.L. SYSTEM DETAILS #493**

**CITY CENTER CAMPUS**

**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023

DATE DEC. 12, 2014

SHEET NO. FSE-92 OF SHEETS

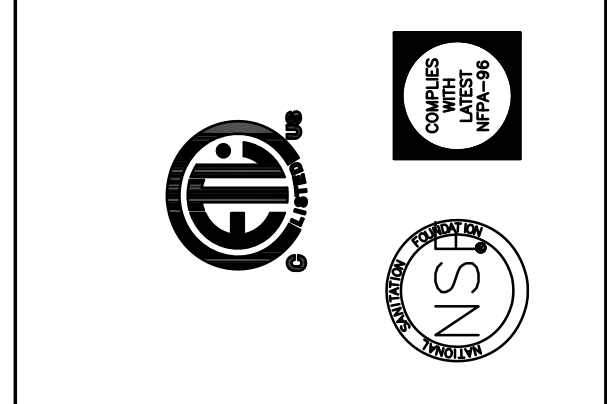
ELECTRICAL & DATA CABLE CONNECTION SCHEDULE

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-M	120V, 15AMP - CONTROL PANEL POWER - 3 WIRES	BUILDING SOURCE	CONTROL PANEL
E2-M	BROADBAND INTERNET CONNECTION	BUILDING SOURCE	CONTROL PANEL
E3-M	FIRE MODE SIGNAL - TO FIRE SUPPRESSION PANEL - 2 WIRES	CONTROL PANEL	FIRE SYSTEM
E4-M	3 WIRE STP CABLE - PLENUM RATED - TO BMS(BACNET)	CONTROL PANEL	BMS
E5-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	CONTROL PANEL	HOOD #505L
E6-M	0-10V MUA SIGNAL TO BMS - 2 WIRES	CONTROL PANEL	BMS
E7-M	FIELD CONNECTION FOR MAIN DUCT GREASE SENSOR - 3 WIRES	CONTROL PANEL	GREASE SENSOR
E8-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD
E9-M	2 WIRES TO SPACE TEMPERATURE SENSOR	CONTROL PANEL	TEMP SENSOR
E10-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD
E11-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR
E12-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #505L
E13-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #505L	HOOD #505R
E14-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #505R
E15-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #505R	HOOD #493L
E16-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #493L
E17-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #493L	HOOD #493R
E18-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #493R
E19-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	KDS	HOOD #505L
E20-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #505L	HOOD #505R
E21-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #505R	HOOD #493L
E22-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #493L	HOOD #493R

2ND FLR 400-500

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

THIS DRAWING MUST BE REVISIONED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:  
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
**NOTE TO APPROVER:** COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVISE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301	HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600
---	--

REV.	DATE	BY	DESCRIPTION
1	01.28.14	WU	INCLUDED MARVEL SHEETS
2	04.09.14	WU	REVISED CONNECTION SCHEDULE
3	06.03.14	WU	NO CHANGE
4			
5			
6			
7			

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WJ  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DATE: 01.28.14

**Halton**

DRAWING No.: U12-716  
REV. NO.: 3 SHEET NO.: 20 of 25

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED
XXX	XXX
OFF.	OFF.
TRACED	APPROVED
XXX	XXX
CHECKED	APPROVED
XXX	EFW

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

**STUDENT SERVERY**  
**ISSUED FOR CONSTRUCTION**  
**M.A.R.V.E.L. SYSTEM DETAILS #493**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. **FSE-93** OF SHEETS



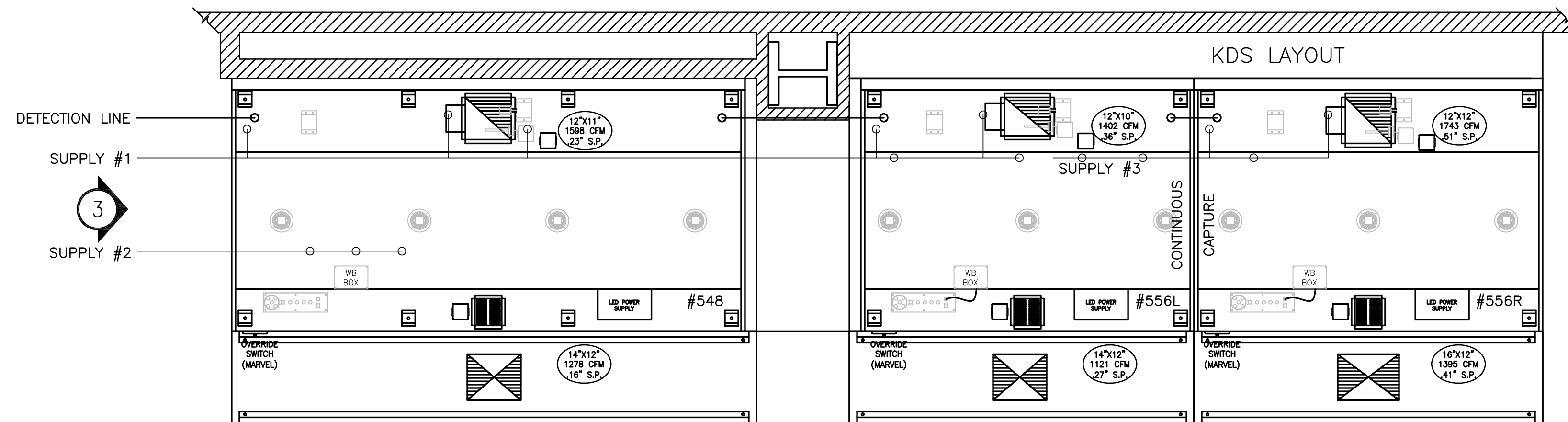




# COMPETITION LAB 500

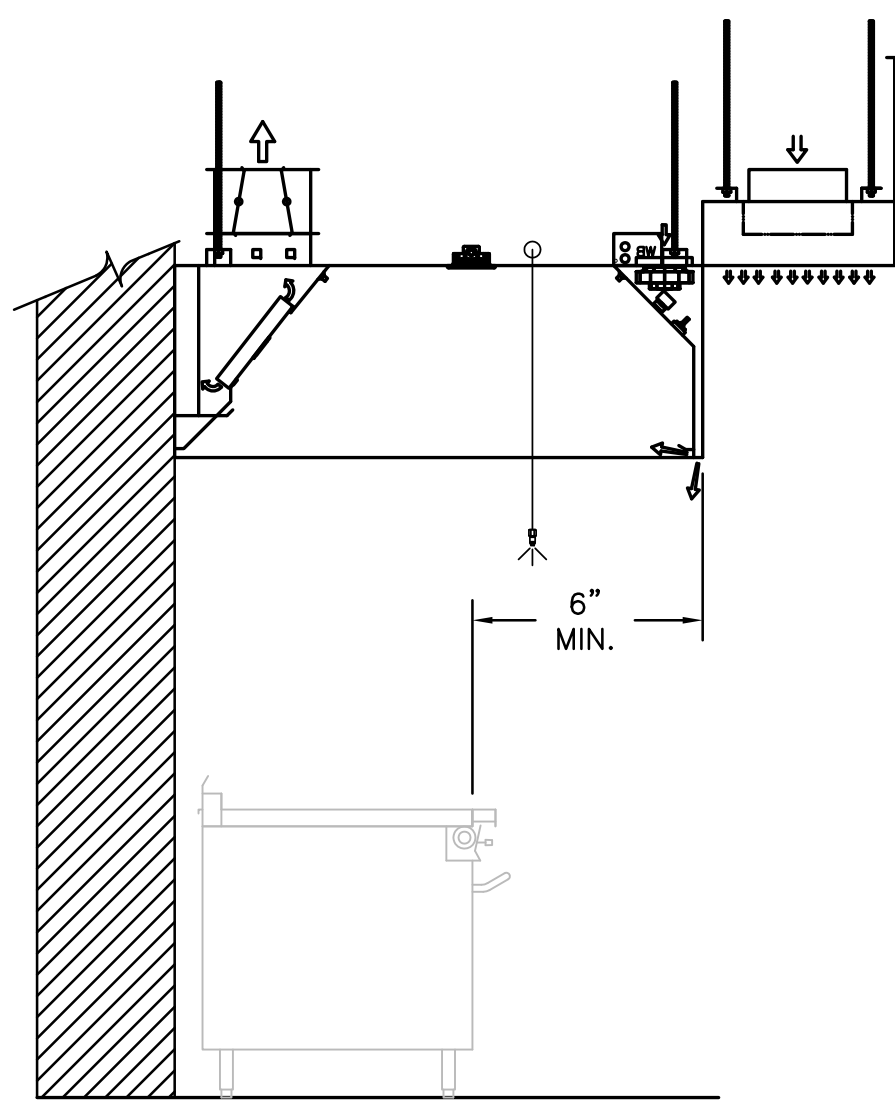
**RECOMMENDED PIPING**  
 FIRE SYSTEM TO BE FURNISHED AND INSTALLED  
 IN THE FIELD BY THE GC'S FIRE SYSTEM  
 INSTALLATION CONTRACTOR. THIS SHEET  
 CONTAINS HALTONS RECOMMENDED  
 PIPING DETAILS

**NOTE**  
 HOODS TO BE FURNISHED  
 BY USING AGENCY AND  
 BE INSTALLED BY GC.

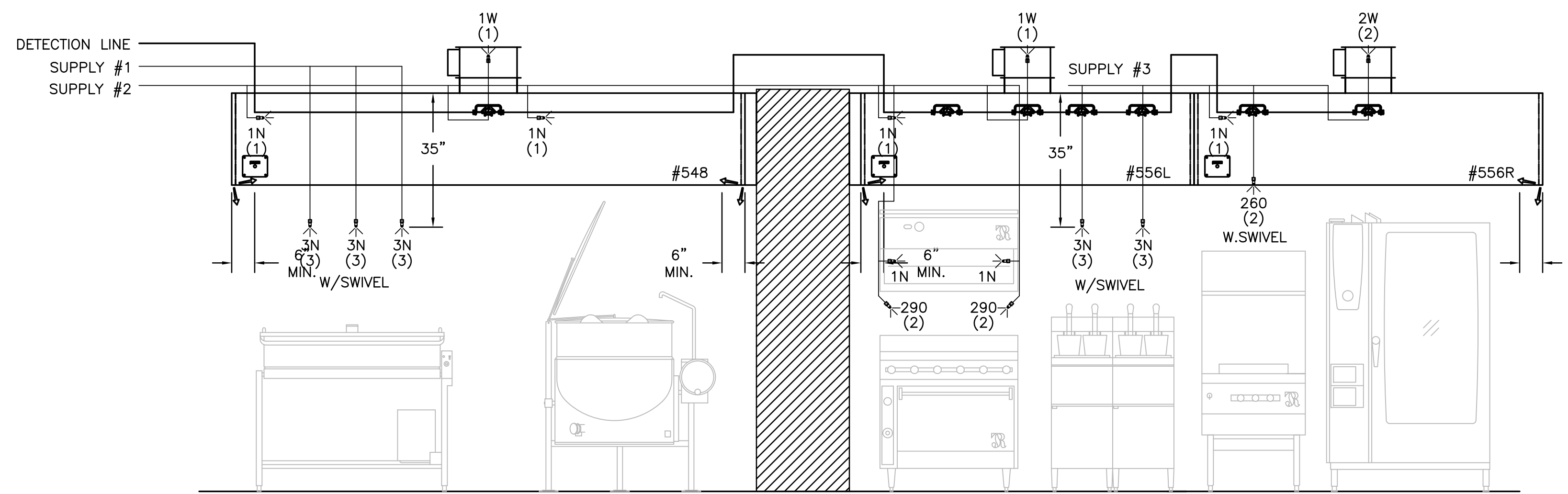


1 ITEM # 548  
 PLAN VIEW

4 ITEM # 556  
 PLAN VIEW

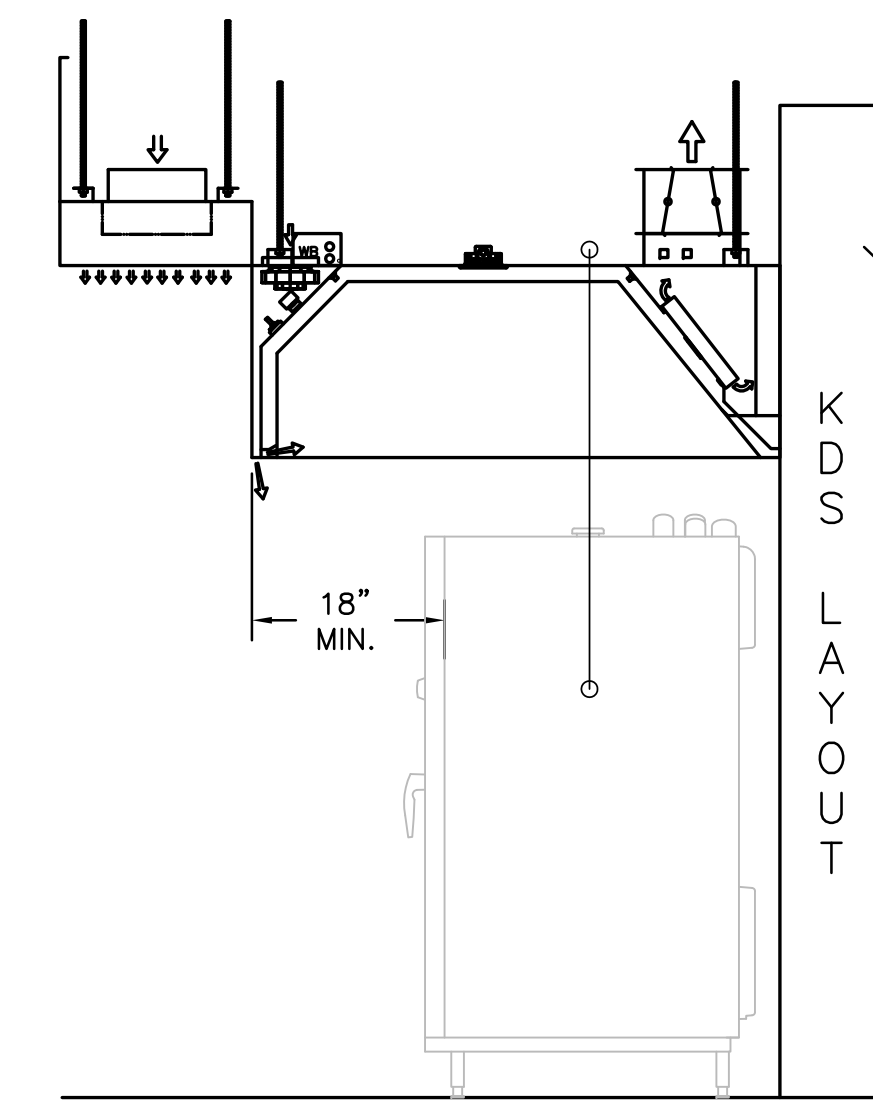


3 ITEM # 548  
 SECTION VIEW



2 ITEM # 548  
 ELEVATION VIEW

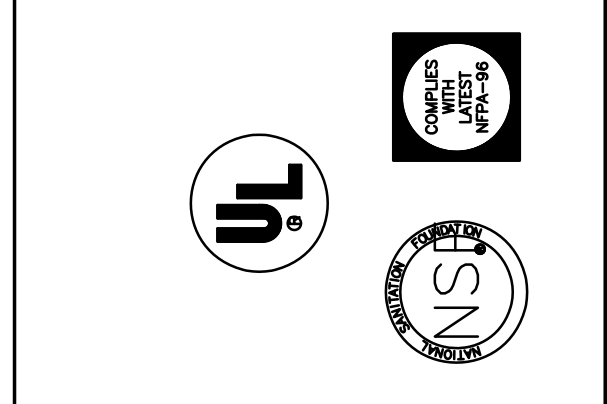
5 ITEM # 556  
 ELEVATION VIEW



6 ITEM # 556  
 SECTION VIEW

- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:  
 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
 NOTE: TO AVOID PROBLEMS WITH EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW, HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVERSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	REVISION DESCRIPTION	BY	DATE
1	REVISED ALL HOODS	WU	01.29.14
2	ADDED KDS TO HOOD 556, REVISED WALL	WU	04.09.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4			
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.04.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-716
REV. NO.:	3
SHEET NO.:	4 of 25

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

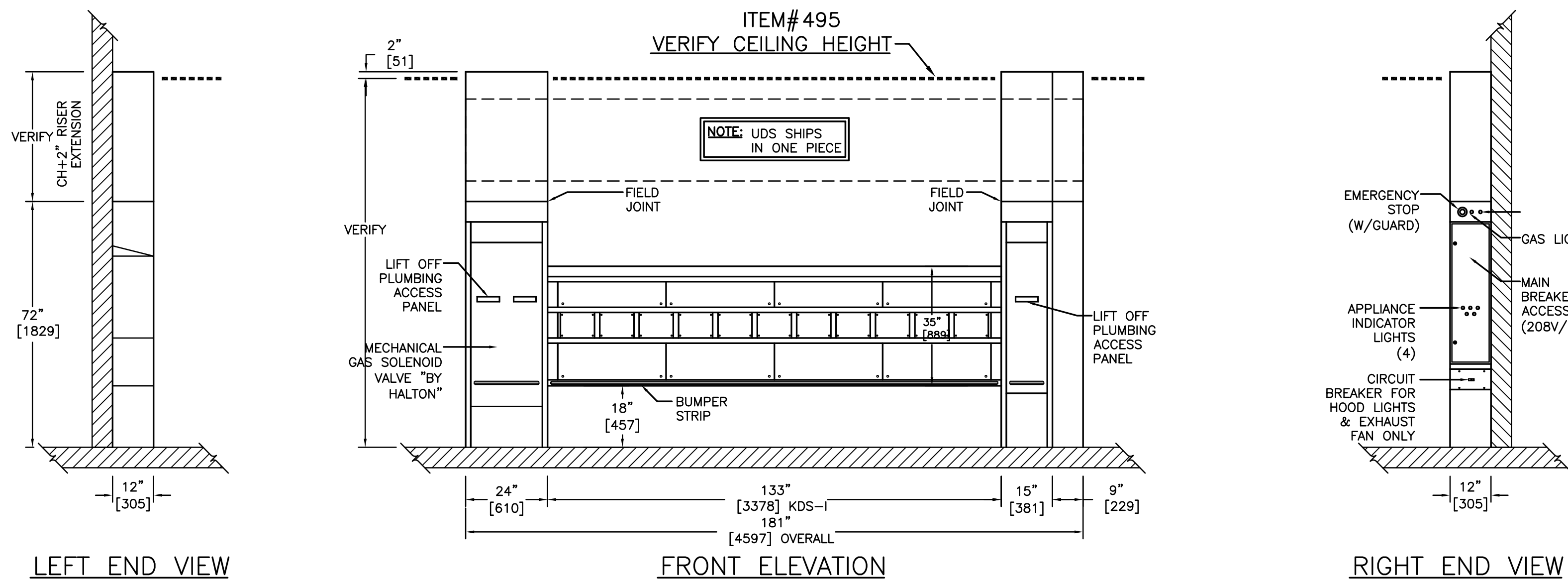
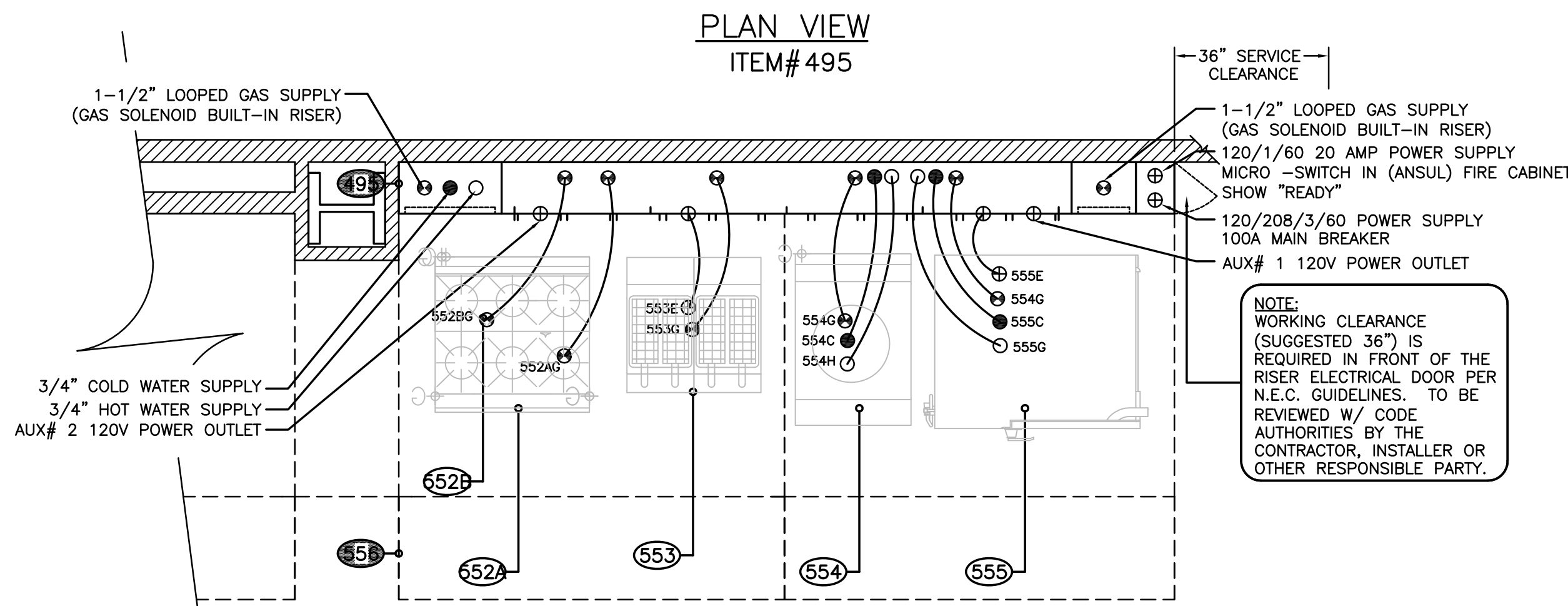
**K J W W** K.J.W ENGINEERING  
 1100 WARRENVILLE ROAD, #400W  
 NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET  
 BIRMINGHAM, MI 48009  
 T: 248.644.0990

**COMPETITION LAB**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #549/557 - FIRE SYSTEM**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
 DATE DEC. 12, 2014  
 SHEET NO. **FSE-95** OF SHEETS



**GENERAL NOTES FOR UTILITY DISTRIBUTION SYSTEM**

**FOOD SERVICE EQUIPMENT CONTRACT REQUIREMENTS**

- VERIFY MAKE, MODEL, UTILITY REQUIREMENTS AND LOCATION OF ALL EQUIPMENT TO BE SERVICED BY UTILITY SYSTEM.
- VERIFY ALL UTILITY RUGH-INS.
- DISTRIBUTION OF SUBMITTAL DRAWINGS, INSTALLATION MANUALS, OPERATION MANUALS, ETC. TO RESPECTIVE TRADES AND END USERS.
- DELIVERY AND INSTALLATION OF UNITS PER DRAWINGS.
- VERIFY COMPLIANCE WITH ALL LOCAL CODES & AGENCIES.

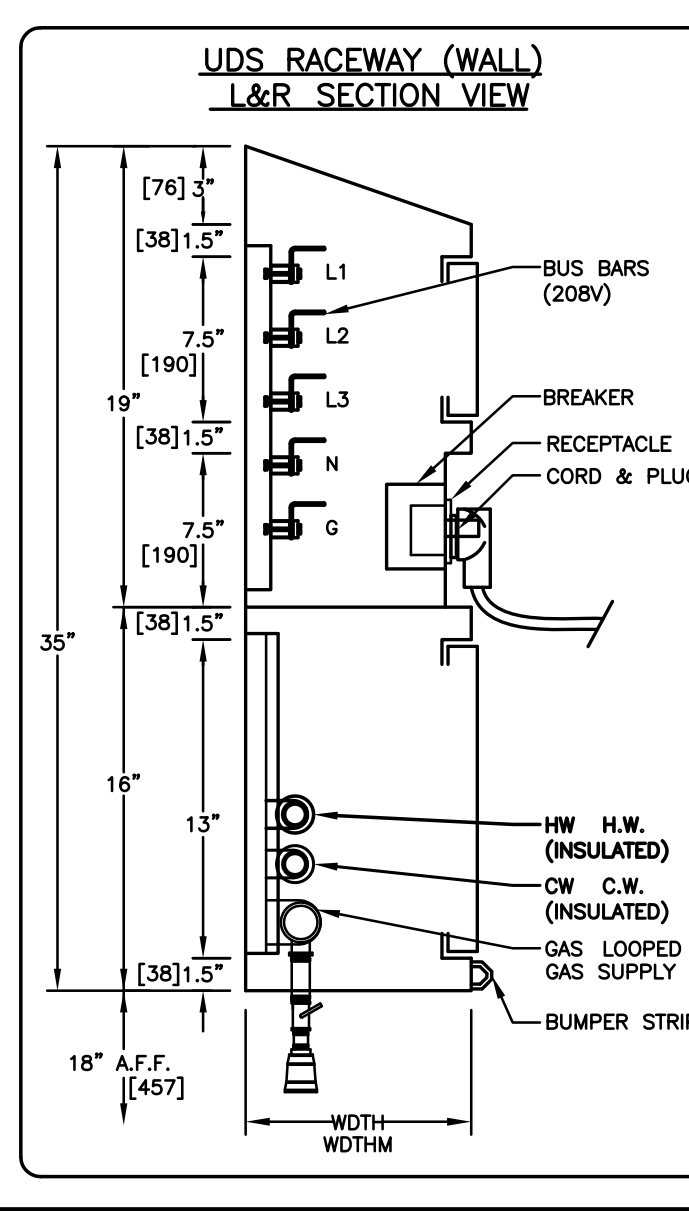
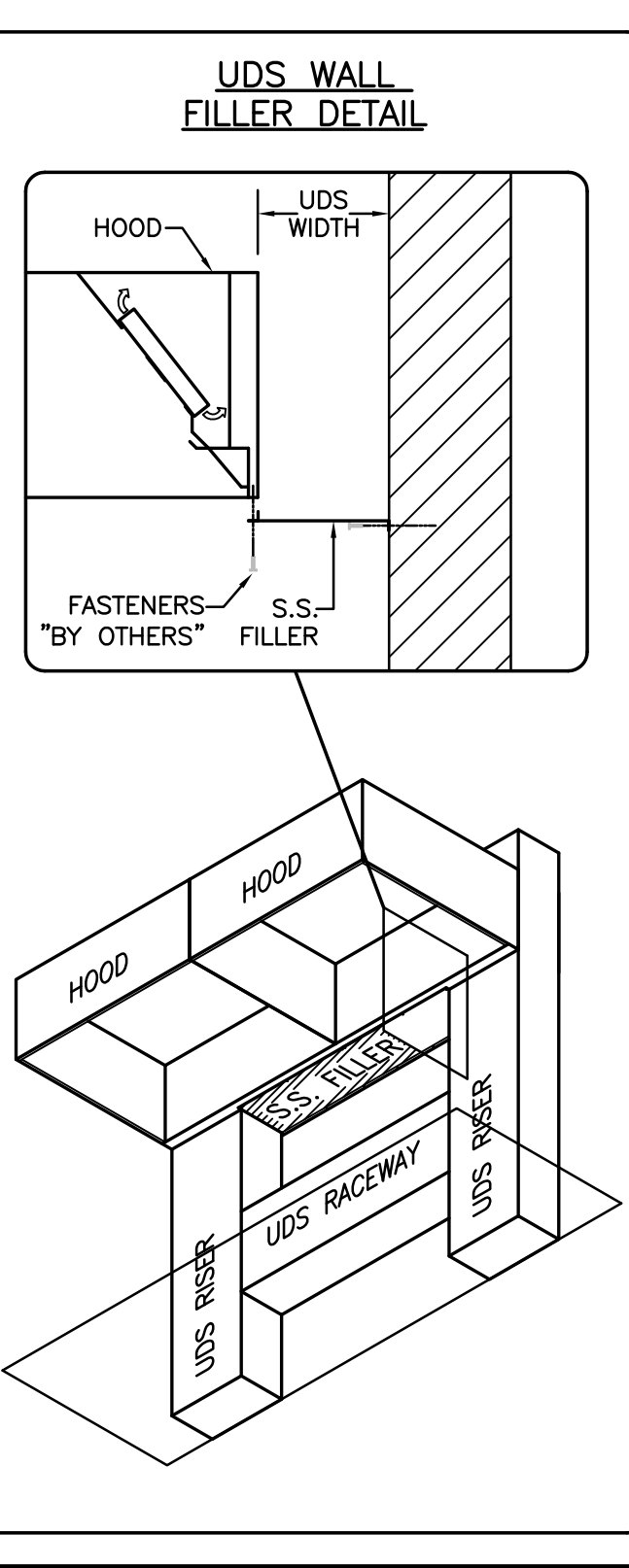
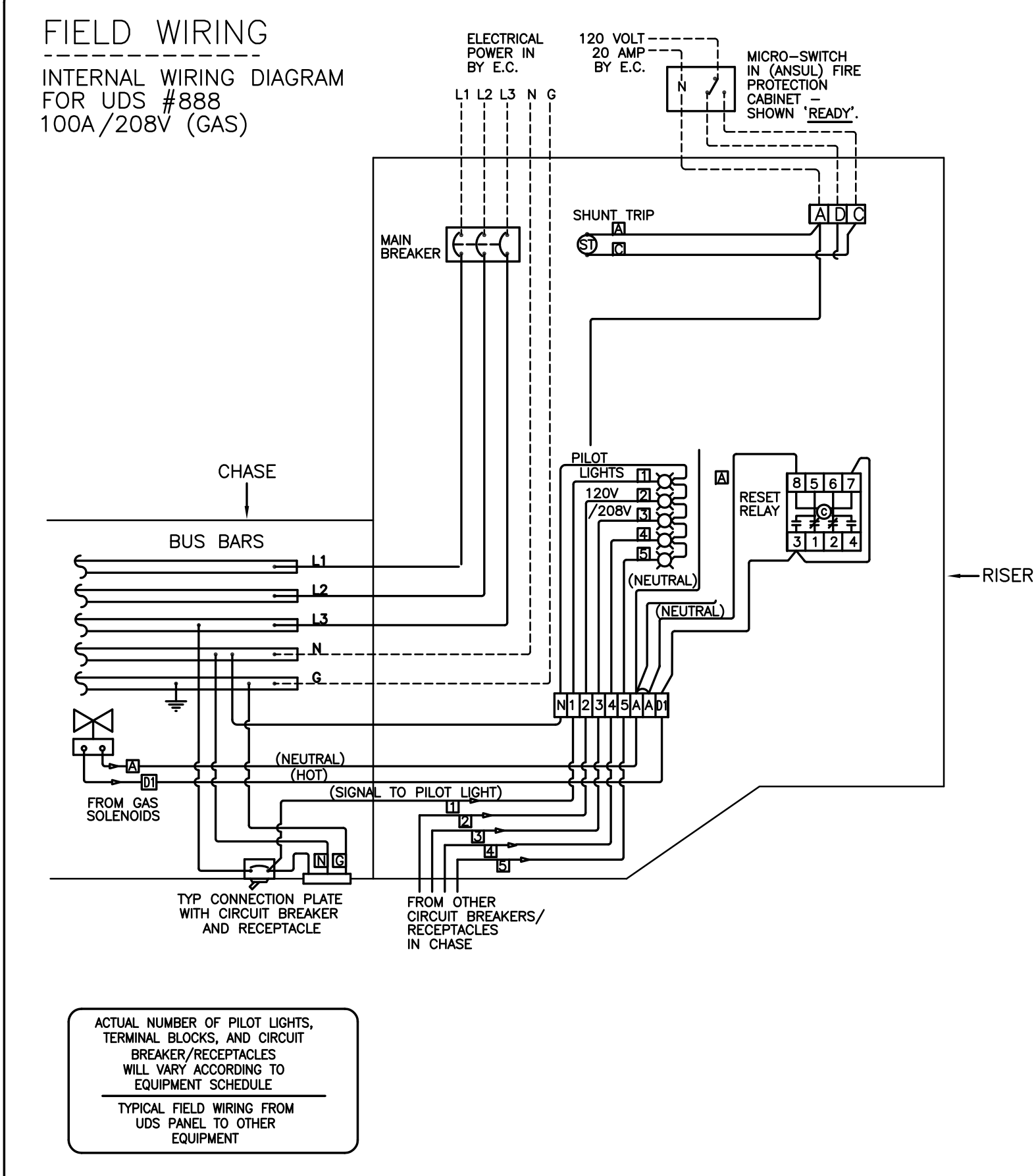
**ELECTRICAL SERVICE CONTRACT REQUIREMENTS**

- INSTALL 2 WIRE CIRCUIT AND MATERIALS REQUIRED TO TERMINAL BLOCKS FOR VENTILATOR CONTROLS AND FIRE PROTECTION CIRCUIT.
- INTERCONNECT LIGHT SWITCH(S) LOCATED IN UTILITY RISER TO VENTILATOR HOOD LIGHTS. LOCATION OF FIXTURE J-BOX SHOWN ON VENTILATOR HOOD DRAWINGS.
- INSPECT FOR LOOSE CONNECTIONS (CAUSED BY SHIPPING) AND TIGHTEN AS REQUIRED.
- REMOVE AND REPLACE ACCESS PANELS AND ENCLOSURES NECESSARY FOR CONNECTION AND INSTALLATION OF SYSTEM.
- INSTALL ELECTRICAL SERVICE(S) I.E. CONDUIT WIRING AND OVERLOAD PROTECTION DEVICE(S) RATED AT A CONTINUOUS OPERATING LOAD OF:

100 AMPS 208/120/3# VOLTS

**PLUMBING CONTRACT REQUIREMENTS**

- PROVIDE GAS SERVICE AND CONNECTIONS OF THE SAME TO CONNECTION POINT AS SHOWN ON HALTON DRAWINGS [1.50] NPT, GAS [1.350] MSH @ 7\"/>
- PROVIDE COLD WATER SERVICE AND CONNECTION OF SAME TO CONNECTION POINT AS SHOWN ON HALTON DRAWING [0.75] NPT, 40 PSIG.
- PROVIDE HOT WATER SERVICE AND CONNECTION OF SAME TO CONNECTION POINT AS SHOWN ON HALTON DRAWING [0.75] NPT, 40 PSIG.
- INTERCONNECT ALL FIRE CONNECTION UNIONS AT FIELD JOINT. ALL UNIONS PROVIDED AND PRE-FITTED AT FACTORY.
- REMOVAL AND REPLACEMENT OF ACCESS PANELS, DOORS, ENCLOSURE TRIM, ETC. NECESSARY FOR PROVIDING FIELD CONNECTIONS FOR SYSTEM.
- TEST ALL FIELD JOINTS FOR LEAKAGE. TIGHTEN AS REQUIRED. TEST ALL FACTORY JOINTS AND FITTINGS FOR LEAKAGE RESULTING FROM SHIPPING AND HANDLING.
- ALL OTHER CONNECTIONS REQUIRED FOR ACCESSORY EQUIPMENT, CONNECTIONS AND INSULATION BY PLUMBING CONTRACTOR.
- COST OF FIELD TESTING AND CERTIFYING BACK FLOW PREVENTERS TO BE PERFORMED BY THE PLUMBER OR OTHER TRADE AFTER INSTALLATION IS COMPLETED AND MET BY MANUFACTURER.



**NOTE: CONFIRM EQUIPMENT UTILITY CONNECTION LOCATIONS, & SUPPLY LOADINGS AND SIZES.**

**NOTE: CONFIRM ALL GAS & WATER HOSE SIZING AND LENGTHS.**

**NOTE: CONFIRM ALL CONDUIT, PIPING, AND CABLE SIZING AND LENGTHS.**

**NOTE: REDUCERS FOR GAS CONNECTION SUPPLIED BY MFG (WHERE APPLICABLE).**

**NOTE: QUICK DISCONNECTS & RESTRAINING CABLES ARE PROVIDED BY MANUFACTURER.**

**NOTE: ALL MAIN RISER SERVICES ARE FROM ABOVE UNLESS STATED OTHERWISE.**

**NOTE: VERIFY THE APPLIANCE MAKE, MODEL, UTILITY REQUIREMENTS.**

**NOTE: MATERIAL USED IS 18 IN. 300 SERIES S/S #4 FINISH UNLESS STATED OTHERWISE.**

**NOTE: THIS KDS SHIPS IN ONE PIECE.**

**SYMBOL CHART**

⊕	ELEC. CONNECTION	⊕	STEAM SUPPLY
⊖	C.W. CONNECTION	⊕	STEAM RETURN
⊖	H.W. CONNECTION	⊕	COMPRESSED AIR
⊖	GAS CONNECTION	⊕	CHILLED WATER SUPPLY
⊖	FILTERED CONN.	⊕	CHILLED WATER RETURN

**ELECTRIC CONNECTION LEGEND**

CORD & PLUG

- A - STRAIGHT BLADE WITH STRAIGHT CAP
- B - STRAIGHT BLADE WITH ANGLE CAP
- C - TWIST LOCK
- D - TWIST LOCK, WATERTIGHT
- E - TWIST LOCK, WATERTIGHT (CORD NOT REQUIRED)

**RECEPTACLE :**

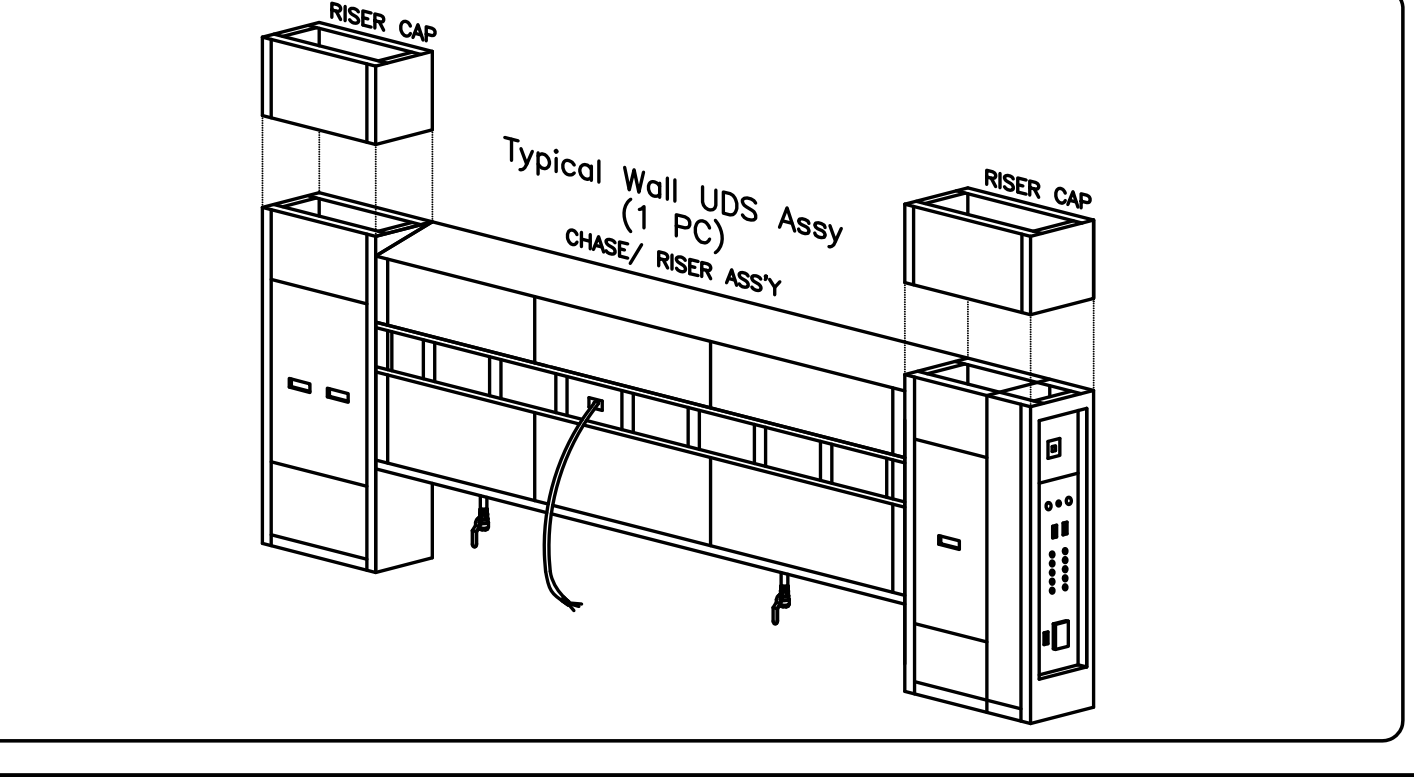
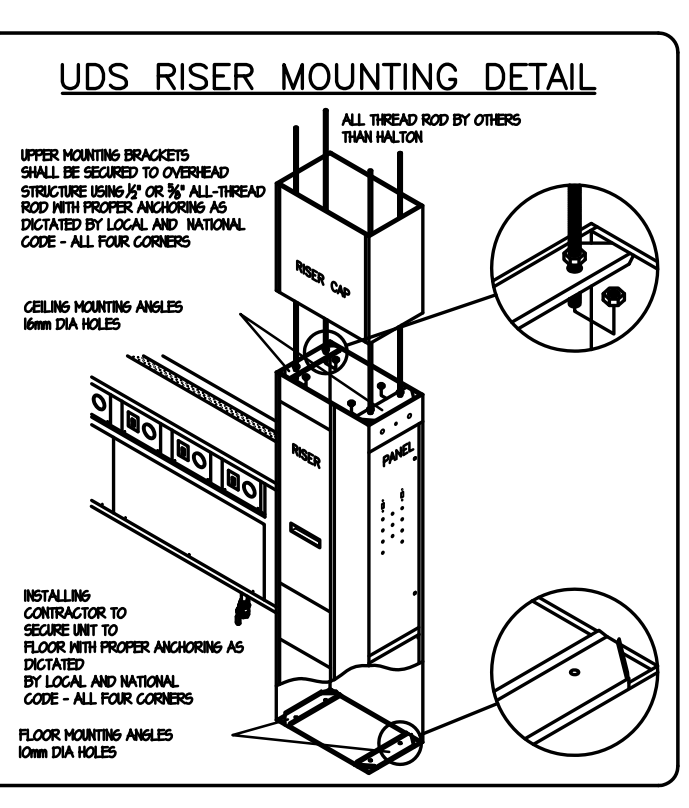
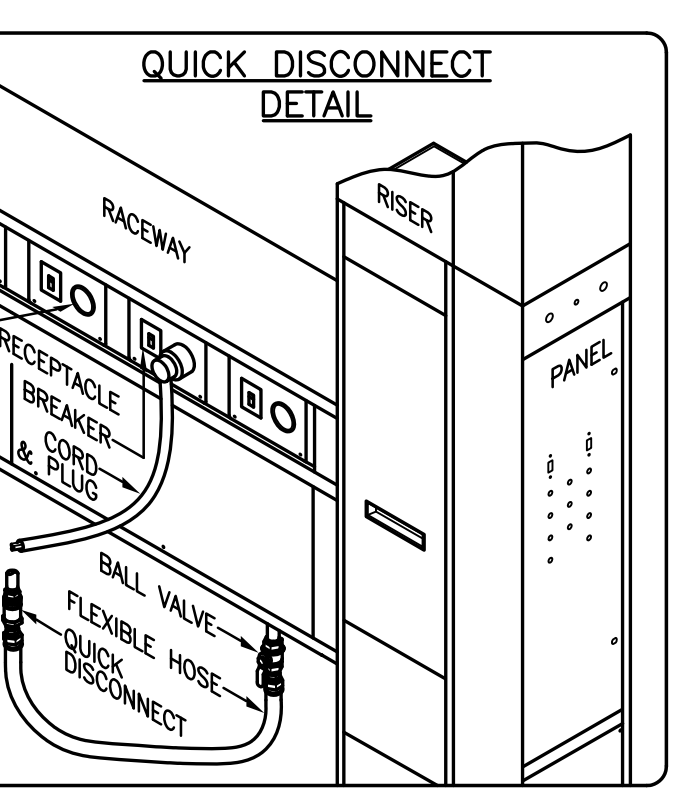
- AR - STRAIGHT BLADE
- CR - TWIST LOCK
- DR - TWIST LOCK, WATERTIGHT
- ER - STRAIGHT BLADE, WATERTIGHT
- DCO - DUPLEX CONV. OUTLET

**PLUMBING CONNECTION LEGEND**

- QD - QUICK DISCONNECT & S/S HOSE ASSY.
- BV - BALL VALVE, 1/4 TURN
- NPT - CHASED NIPPLE FOR FUTURE
- INT - INTERNAL PRE-PLUMBED CONN.

**OTHER :**

- DIR - DIRECT CONNECTION
- PS - PIN & SLEEVE
- INT - INTERNAL WIRE-WOUND CONNECTION
- BO - BREAKER ONLY, NO RECEPTACLE
- EW - CORD SERVED BY EQUIP. MFR.
- FE - FUTURE ELECTRIC
- E.C. - ELECTRICAL CONTRACTOR
- E.C.C. - KITCHEN EQUIPMENT CONTRACTOR
- F - FILTERED WATER (REQUIRED)



**ITEM# 495 UTILITY SCHEDULE FOR UDS**

ITEM NO.	EQUIPMENT DESCRIPTION TYPE / MAKE / MODEL	208/120/3#/60 ELECTRIC				GAS				COLD WATER				HOT WATER				REMARKS					
		CONN. NO.	LINE NO.	AMP.	VOLTS	BREAKER, REC., PLUG, LEN	CONN. NO.	APPL. CON.	HOSE CONN. (N)	LEN (FT)	CONN. NO.	DIA. (IN)	CONN. TYPE	CONN. NO.	DIA. (IN)	CONN. TYPE							
552A	RANGE					552AG	215	1-1/4"	1-1/4"	BY.00.0	5												
552B	SALAMANDER /					552BG	30	3/4"	3/4"	BY.00.0	5												
553	FRYER BATTERY /	553E	L1	20	120/1	30/1	AR	B	5	553G	244	1-1/2"	1-1/2"	BY.00.0	5								
554	WOK					554G	100	1-1/4"	1-1/4"	BY.00.0	5	554C	1/2"	OD	5	554H	1/2"	OD	5				
555	COMBINATION OVEN	555E	L2	15	120/1	20/1	GFDI	B	5	554G	240	1"	1"	BY.00.0	5	555C	3/4"	OD	5	555G	3/4"	OD	5

APPLIANCE LOAD PER LINE: L1=20A, L2=15A, L3=24A

MFG SYSTEM CAPACITY: 30 AMPS (25% Safety incl.)

FUTURE RESERVE: 56 AMPS

APPROXIMATE WEIGHT= 2200 lbs/ 997 kg

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN: XXX  
PREPARED: XXX  
TRACED: XXX  
CHECKED: XXX

APPROVED: XXX  
APPROVED: EFW

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**COMPETITION LAB**  
ISSUED FOR CONSTRUCTION  
**UTILITY DISTRIBUTION SYSTEM DETAILS #558**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
DATE: DEC. 12, 2014  
SHEET NO. **FSE-96**  
OF SHEETS



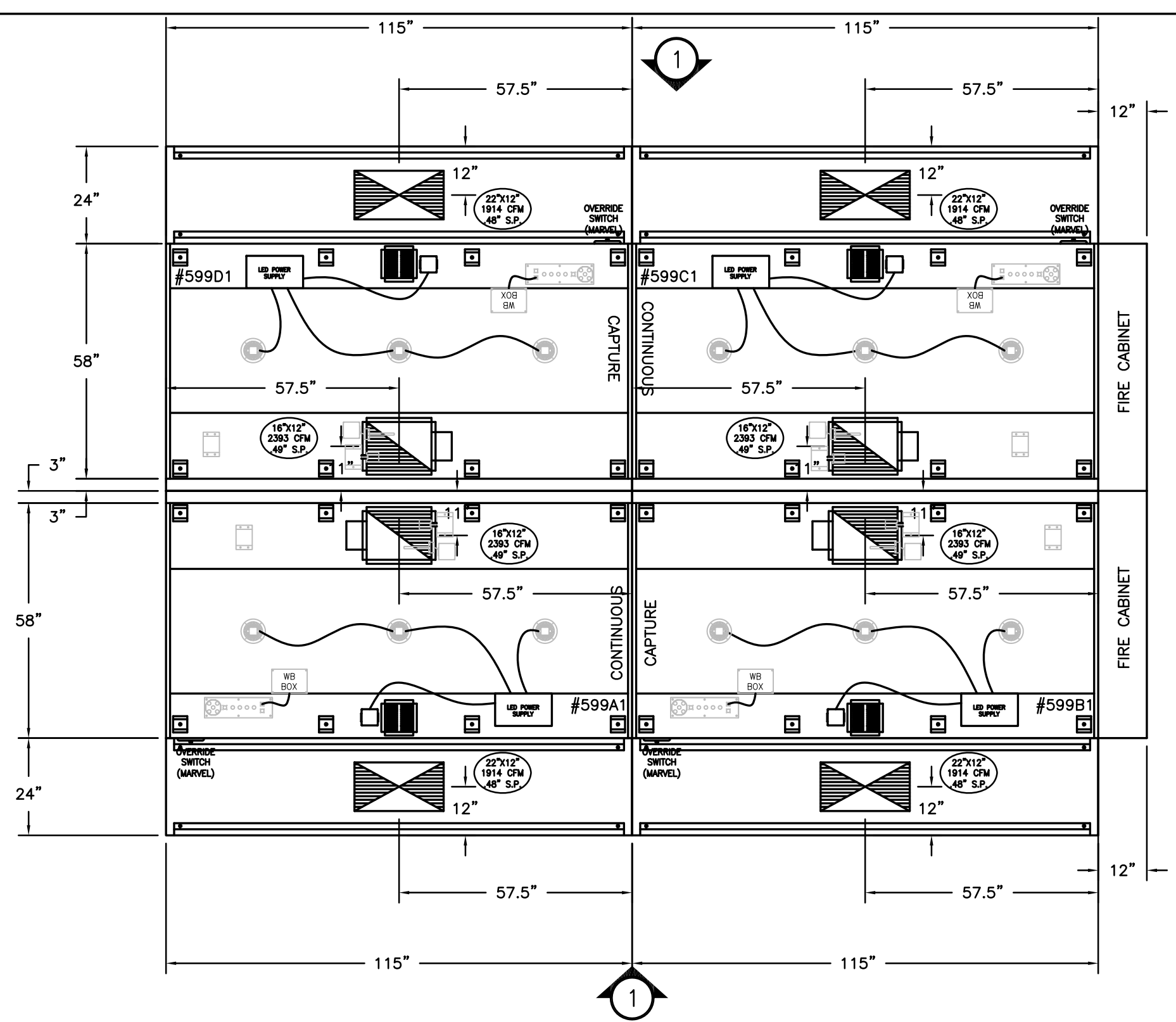
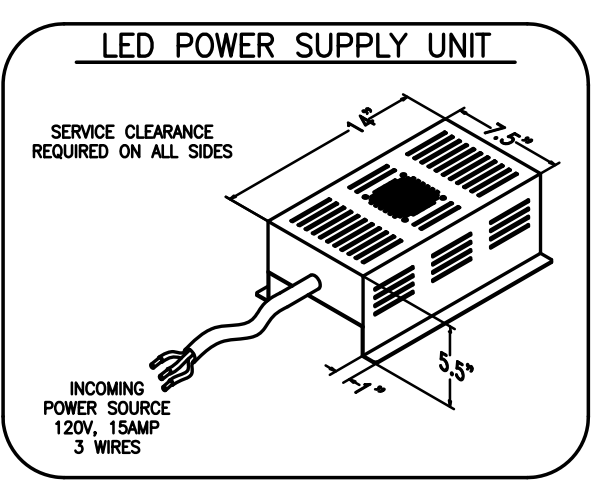
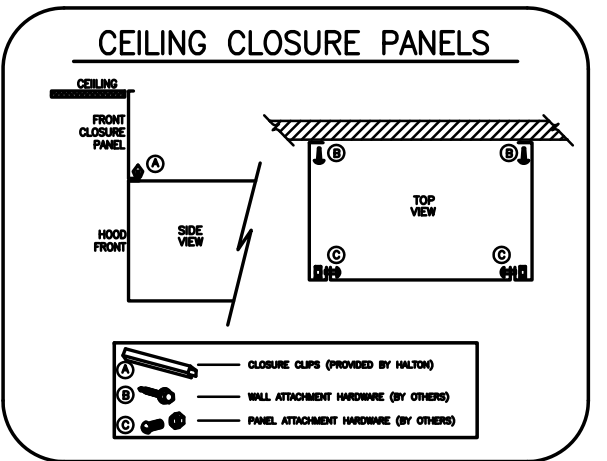
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS						GREASE EXTRACTOR			SUPPLY AIR REQUIREMENTS			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)			
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR		QTY.	SIZE	TYPE	SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR							
					QTY.	LENGTH						WIDTH	QTY.				LENGTH	WIDTH	
599A1	KVE	2393	.37"	.49"	1	16"	12"	5	20"	13"	KSA	1914	.48"	1	22"	12"	ALL 18GA. 304 S.S.	822	144
599B1	KVE	2393	.37"	.49"	1	16"	12"	5	20"	13"	KSA	1914	.48"	1	22"	12"	ALL 18GA. 304 S.S.	822	144
599C1	KVE	2393	.37"	.49"	1	16"	12"	5	20"	13"	KSA	1914	.48"	1	22"	12"	ALL 18GA. 304 S.S.	822	144
599D1	KVE	2393	.37"	.49"	1	16"	12"	5	20"	13"	KSA	1914	.48"	1	22"	12"	ALL 18GA. 304 S.S.	822	144

TOTAL EXH. CFM = 9572      TOTAL SUPPLY CFM = 7656

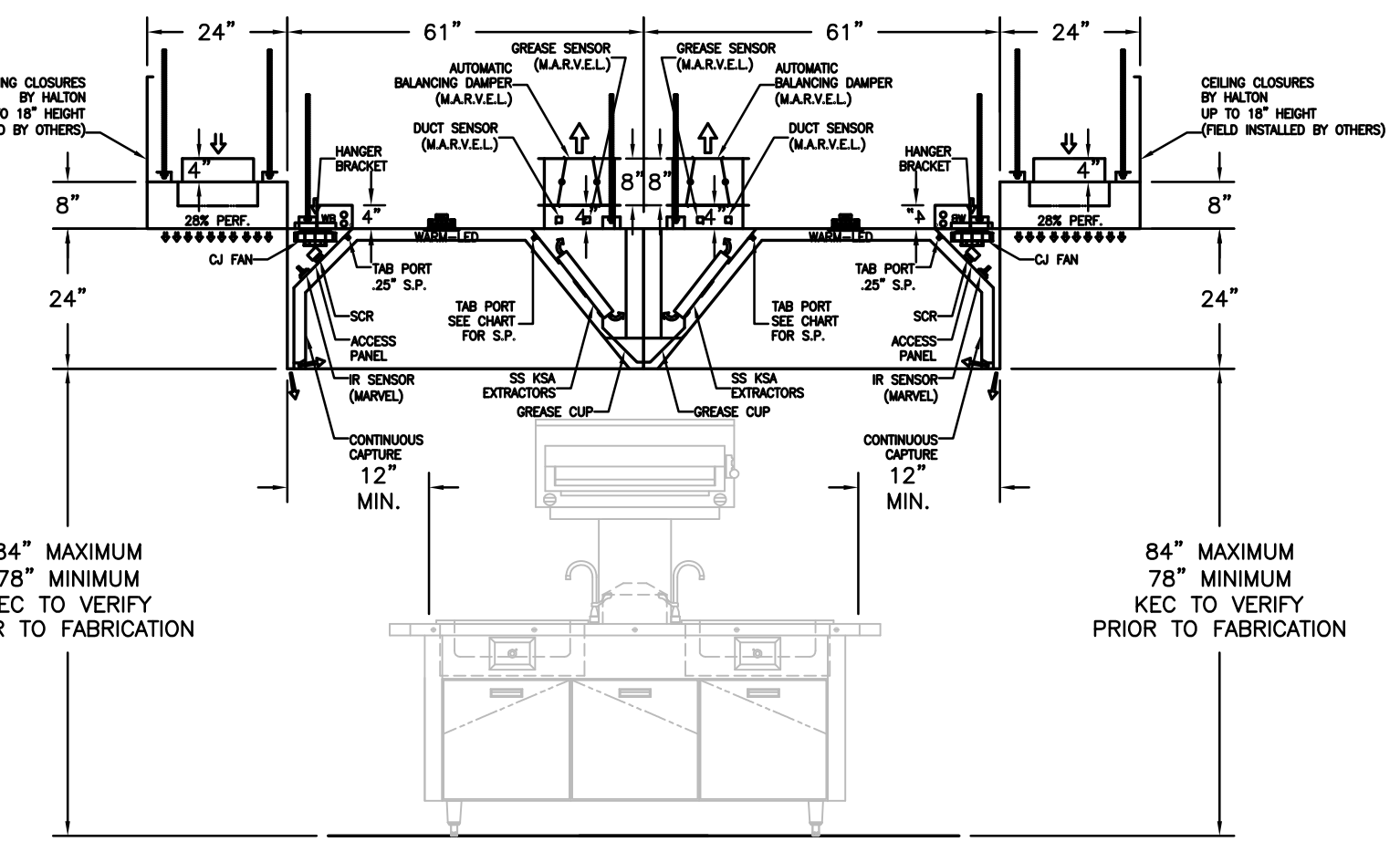
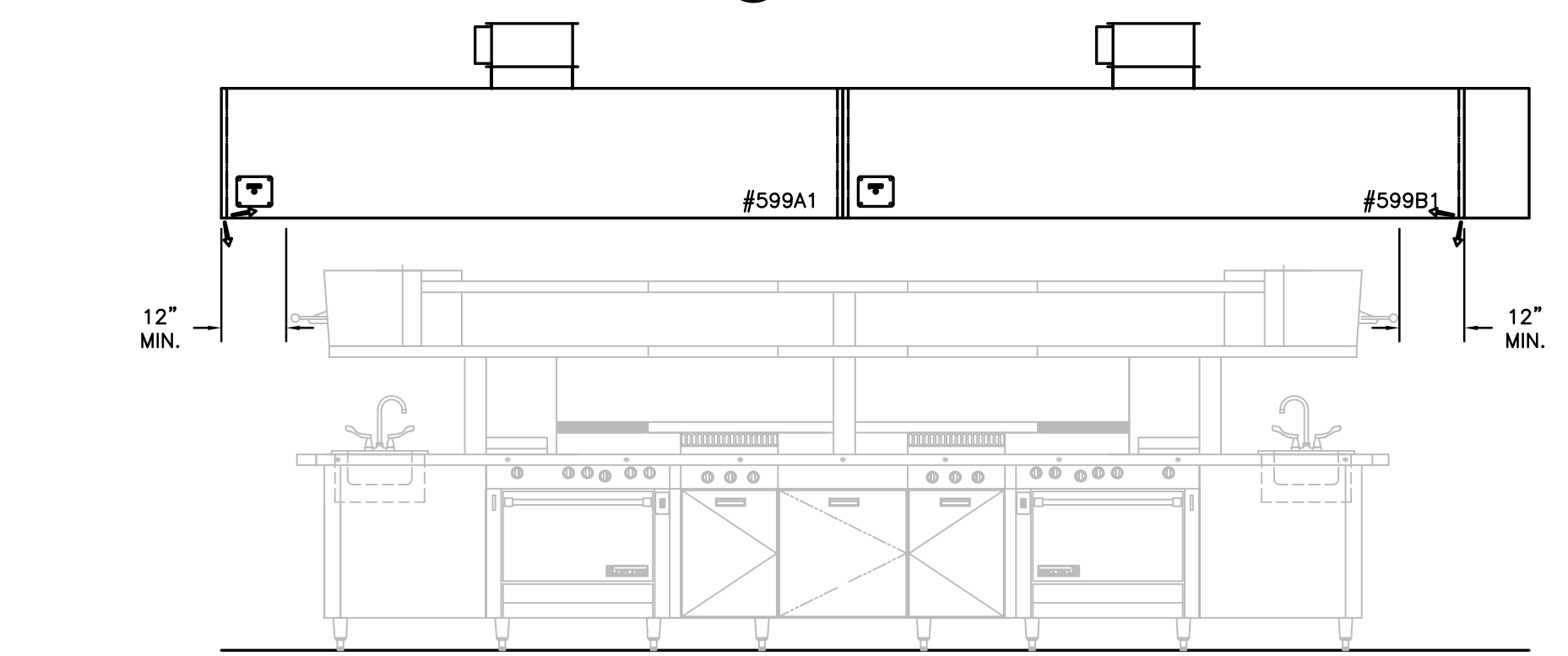
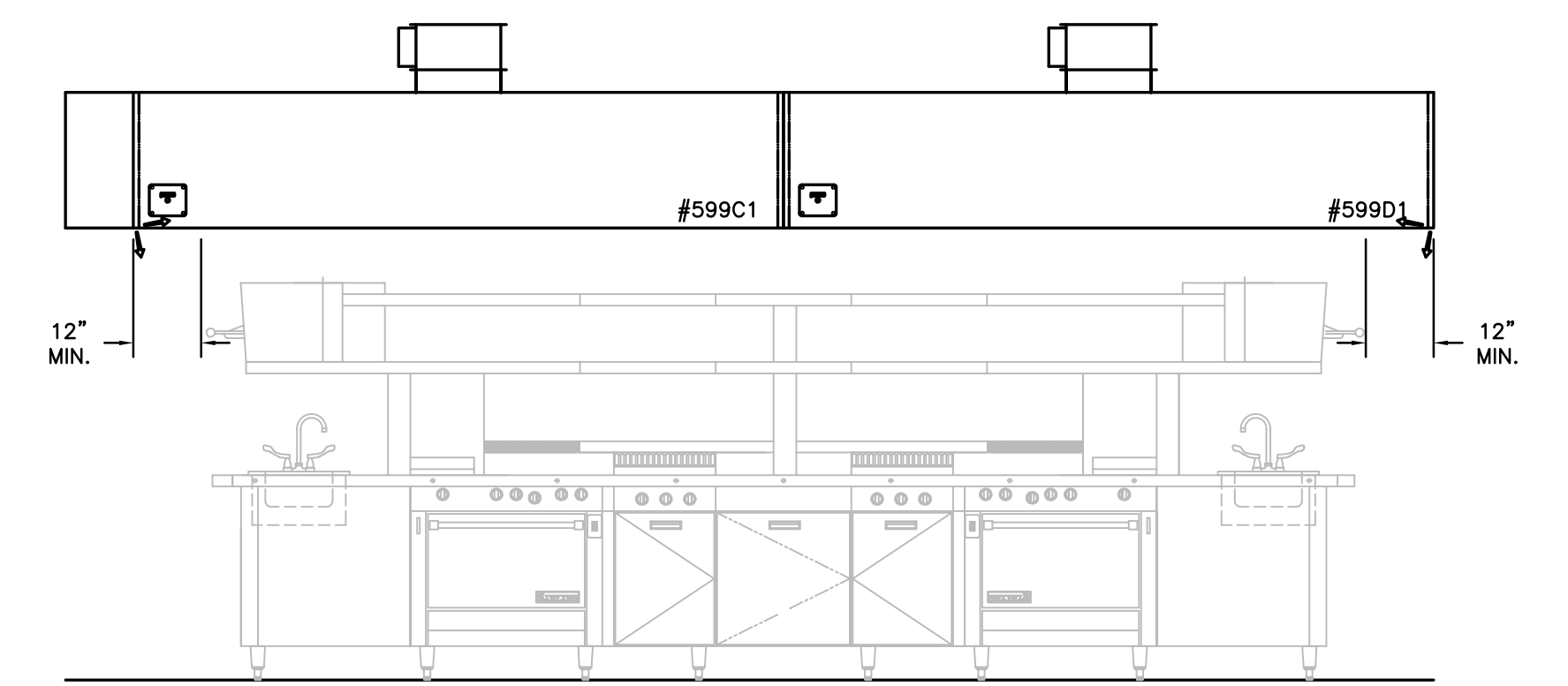
**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH ENG.

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

# COMPETITION LAB 500



(4) FOUR TOTAL



- GENERAL SPECIFICATIONS**
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAIDEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

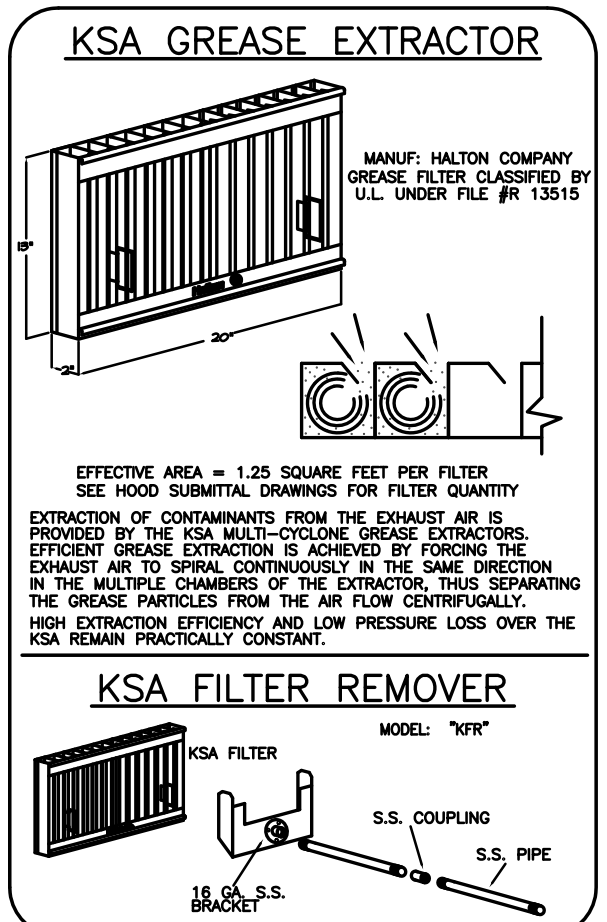
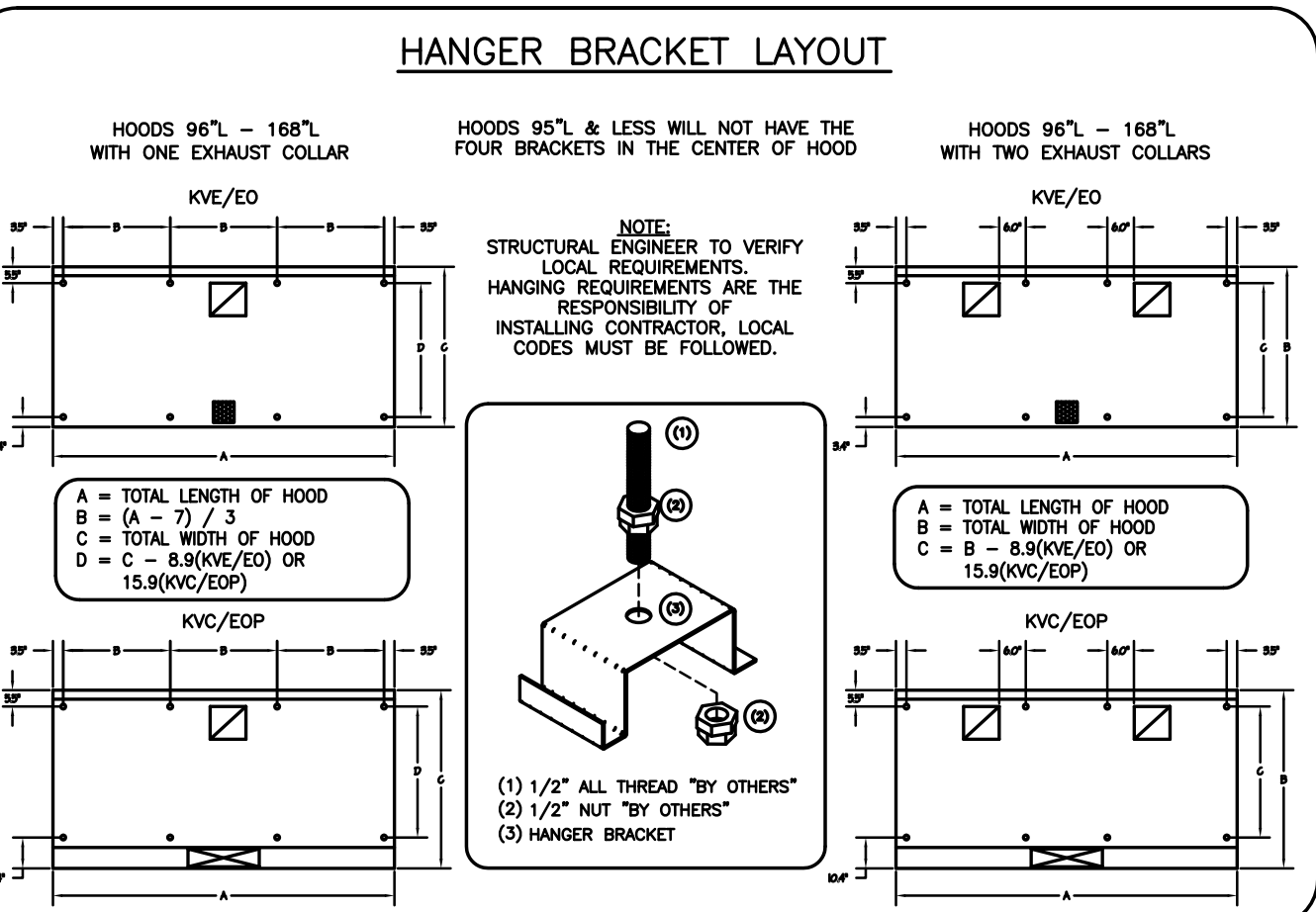
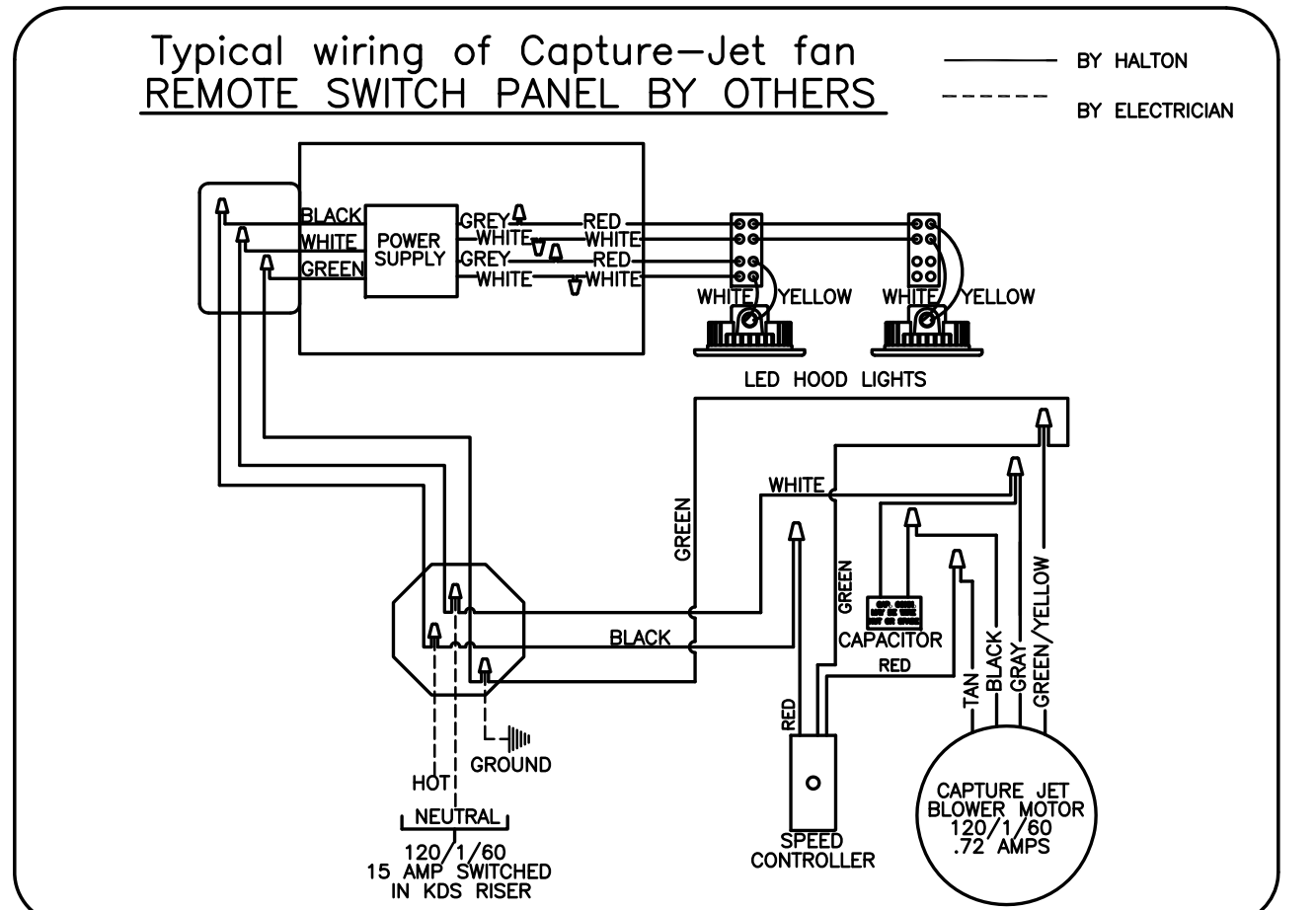
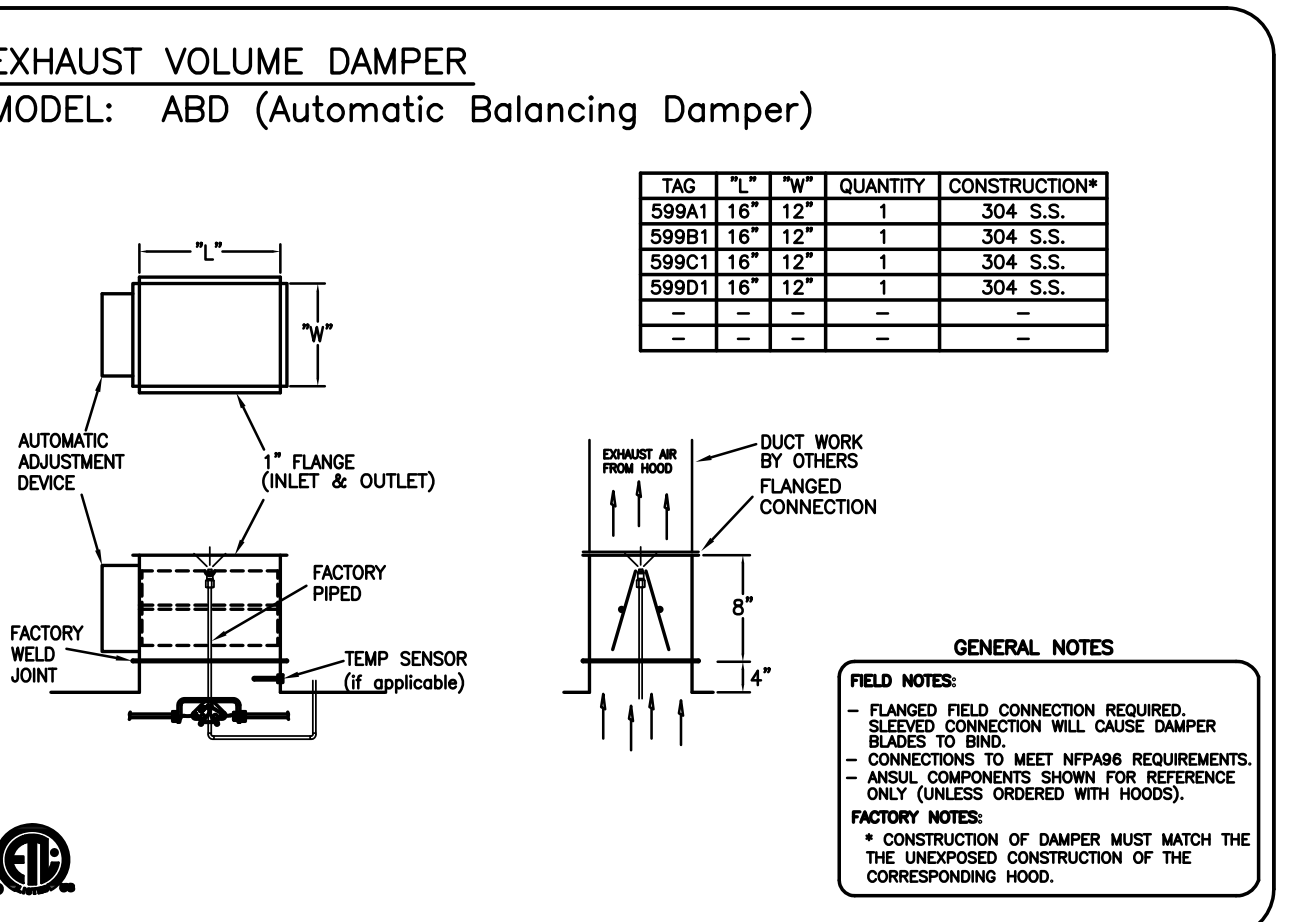
- INSTALLATION REQUIREMENTS**
- KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS**
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTIONS.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- ELECTRICAL CONTRACTOR'S REQUIREMENTS**
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

- ELECTRICAL EQUIPMENT REQUIREMENTS**
- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB - .67 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB - 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB - .83 AMP EA.
  - LED LIGHT FIXTURES - .30 AMP EA.
  - CAPTURE JET FAN - .72 AMP EA.
  - \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*
  - \*\*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*

**CEILING HEIGHT NOTE**

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:



**PERFORMANCE CRITERIA**

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE EXTRACTION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSVILLE, KY 42164  
1-270-237-5600

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-674-0301

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU  
SCALE: NOT TO SCALE  
DATE: 12.04.12  
CHECKED BY: WU  
DATE: 12.04.12  
CONSULTANT: E.F. WHITNEY

REVISION DESCRIPTION

REV.	DATE	BY
1	01.29.14	WU
2	04.09.14	WU
3	06.03.14	WU
4		
5		
6		
7		

DRAWING TITLE: HOOD DETAILS  
DRAWING NO.: U12-716  
REV. NO.: 3 SHEET NO.: 5 of 25

DATE

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

PREPARED: XXX OFF.  
APPROVED: XXX  
CHECKED: XXX  
E.F.W.

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**E.F.W.** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**COMPETITION LAB**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #599**

PROJECT NO. CDB 810-048-023  
DATE: DEC. 12, 2014  
SHEET NO. FSE-97 OF SHEETS

CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE









ELECTRICAL & DATA CABLE CONNECTION SCHEDULE

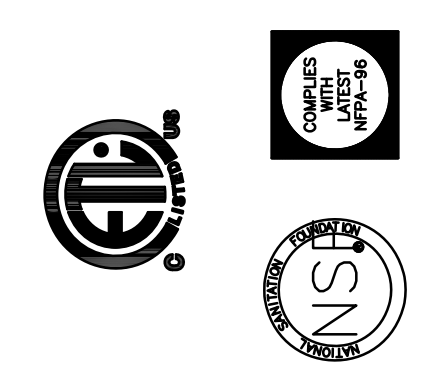
CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-M	120V, 15AMP - CONTROL PANEL POWER - 3 WIRES	BUILDING SOURCE	CONTROL PANEL
E2-M	BROADBAND INTERNET CONNECTION	BUILDING SOURCE	CONTROL PANEL
E3-M	FIRE MODE SIGNAL - TO FIRE SUPPRESSION PANEL - 2 WIRES	CONTROL PANEL	FIRE SYSTEM
E4-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	CONTROL PANEL	HOOD #548
E5-M	0-10V MUA SIGNAL TO BMS - 2 WIRES	CONTROL PANEL	BMS
E6-M	FIELD CONNECTION FOR MAIN DUCT GREASE SENSOR - 3 WIRES	CONTROL PANEL	GREASE SENSOR
E7-M	FIELD CONNECTION FOR MAIN DUCT GREASE SENSOR - 3 WIRES	CONTROL PANEL	GREASE SENSOR
E8-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD
E9-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD
E10-M	2 WIRES TO SPACE TEMPERATURE SENSOR	CONTROL PANEL	TEMP SENSOR
E11-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD
E12-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR
E13-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD
E14-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR
E15-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #548
E16-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #548	HOOD #556L
E17-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #556L
E18-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #556L	HOOD #556R
E19-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #556R
E20-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #556R	HOOD #599A1
E21-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599A1
E22-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599A1	HOOD #599B1
E23-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599B1
E24-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599B1	HOOD #599C1
E25-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599C1
E26-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599C1	HOOD #599D1
E27-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599D1
E28-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599D1	HOOD #599A3
E29-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599A3
E30-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599A3	HOOD #599B3
E31-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599B3
E32-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599B3	HOOD #599C3
E33-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599C3
E34-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599C3	HOOD #599D3
E35-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599D3
E36-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599D3	HOOD #599A2

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E37-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599A2
E38-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599A2	HOOD #599B2
E39-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599B2
E40-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599B2	HOOD #599C2
E41-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599C2
E42-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599C2	HOOD #599D2
E43-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599D2
E44-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599D2	HOOD #599A4
E45-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599A4
E46-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599A4	HOOD #599B4
E47-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599B4
E48-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599B4	HOOD #599C4
E49-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599C4
E50-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #599C4	HOOD #599D4
E51-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #599D4
E52-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #548
E53-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #548	HOOD #556L
E54-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #556L	HOOD #556R
E55-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #599A1
E56-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #599A1	HOOD #599B1
E57-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #599C1
E58-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #599C1	HOOD #599D1
E59-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #599A3
E60-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #599A3	HOOD #599B3
E61-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #599C3
E62-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #599C3	HOOD #599D3
E63-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #599A2
E64-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #599A2	HOOD #599B2
E65-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #599C2
E66-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #599C2	HOOD #599D2
E67-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #599A4
E68-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #599A4	HOOD #599B4
E69-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #599C4
E70-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #599C4	HOOD #599D4
E71-M	3 WIRE STP CABLE - PLENUM RATED - TO BMS(BACNET)	CONTROL PANEL	BMS

COMPETITION LAB 500

NOTE  
HOODS TO BE FURNISHED  
BY USING AGENCY AND  
BE INSTALLED BY GC.

THE DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.  
PLEASE VERIFY THE FOLLOWING:  
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
NOTE: TO APPROXIMATE EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVERSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0501		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42164 1-270-237-5600	
REV.	DATE	BY	DATE
1	01.28.14	WU	01.28.14
2	04.10.14	WU	04.10.14
3	06.03.14	WU	06.03.14
4			
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU DATE: 01.28.14
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING No.:	U12-716
REV. NO.:	3
SHEET NO.:	22 of 25

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

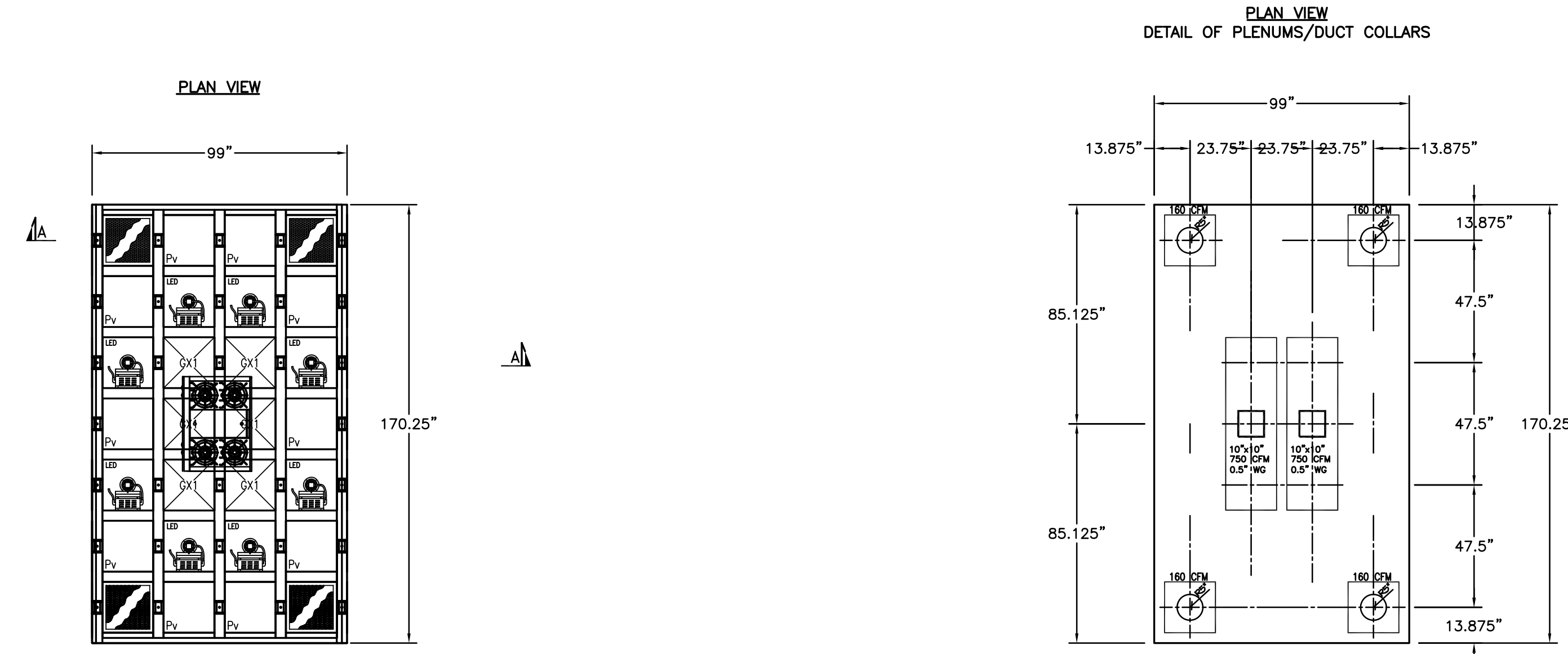
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<p><b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000</p>	<p><b>KJWW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320</p>	<p><b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990</p>
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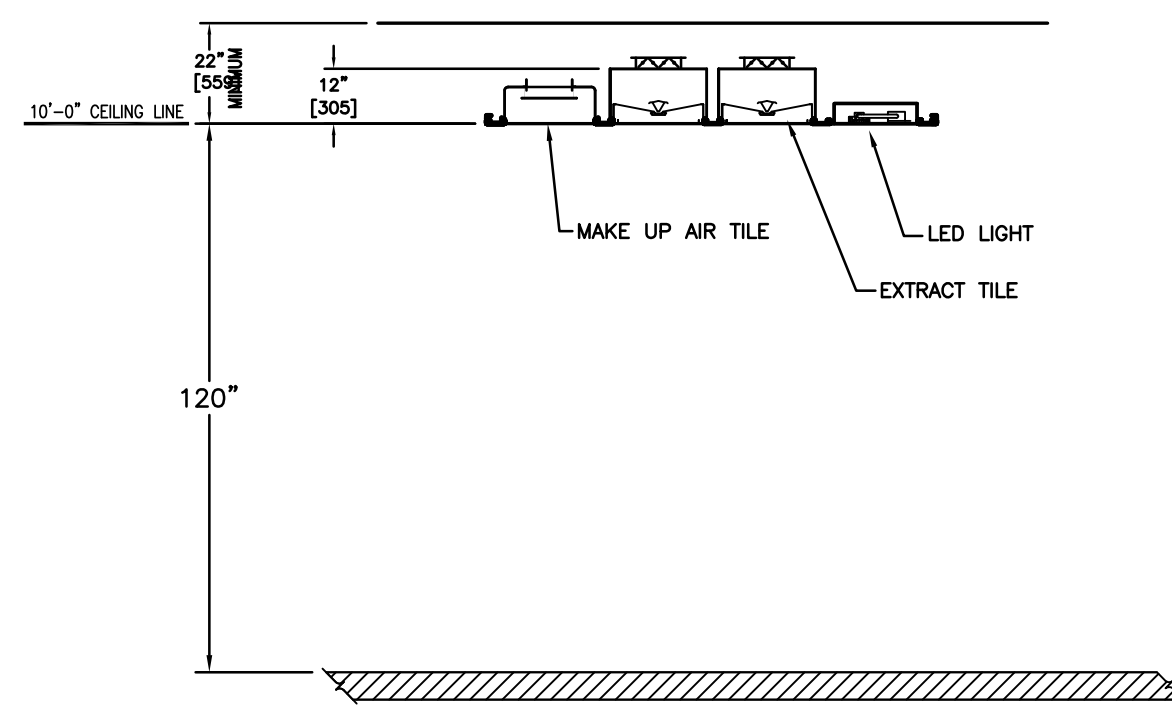
<b>COMPETITION LAB</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>M.A.R.V.E.L. SYSTEM DETAILS #548</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-100</b>		OF SHEETS



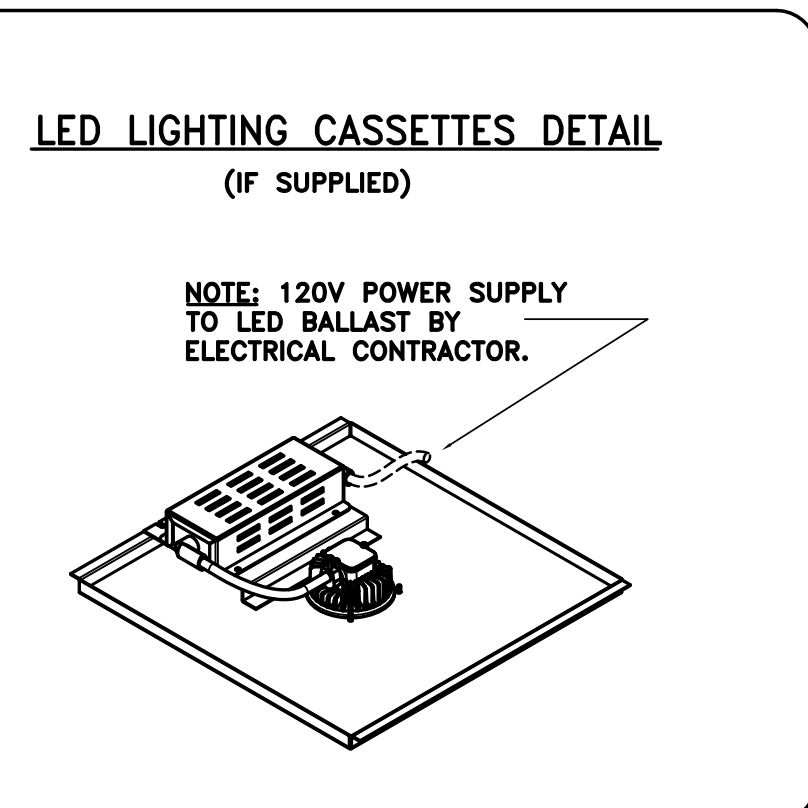
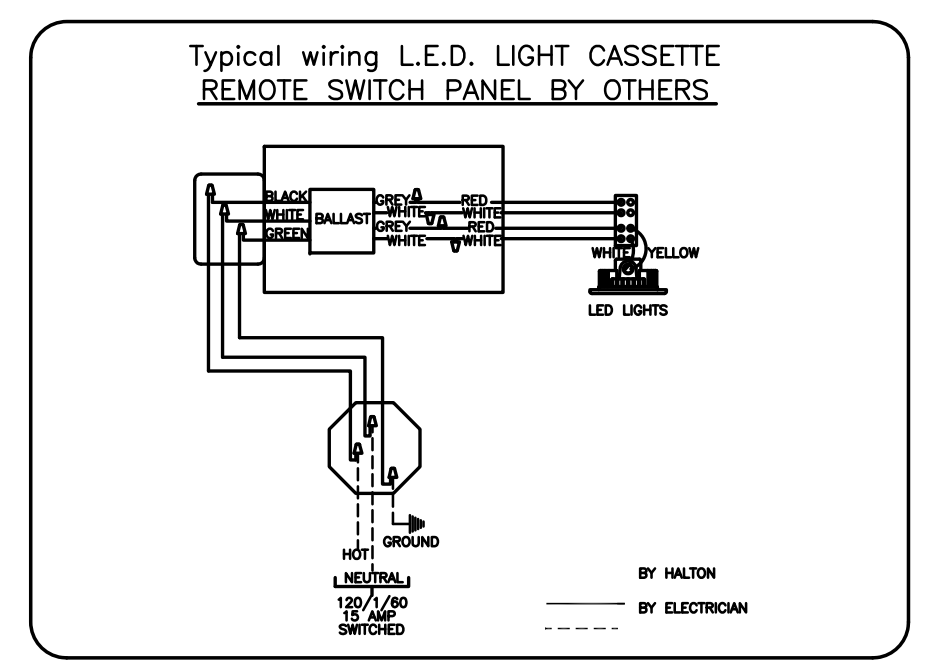
**VENTILATED CEILING**



**FRONT ELEVATION VIEW THROUGH SECTION A-A**



**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



**GENERAL SPECIFICATION:**

VENTILATION OF THE KITCHEN/COOKING AREA SHALL BE BY MEANS OF A HALTON VENTILATED CEILING SYSTEM (VCS).

THE VCS SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DRAWING & MANUAL, AND IS CUSTOM DESIGNED FOR THE SPACE.

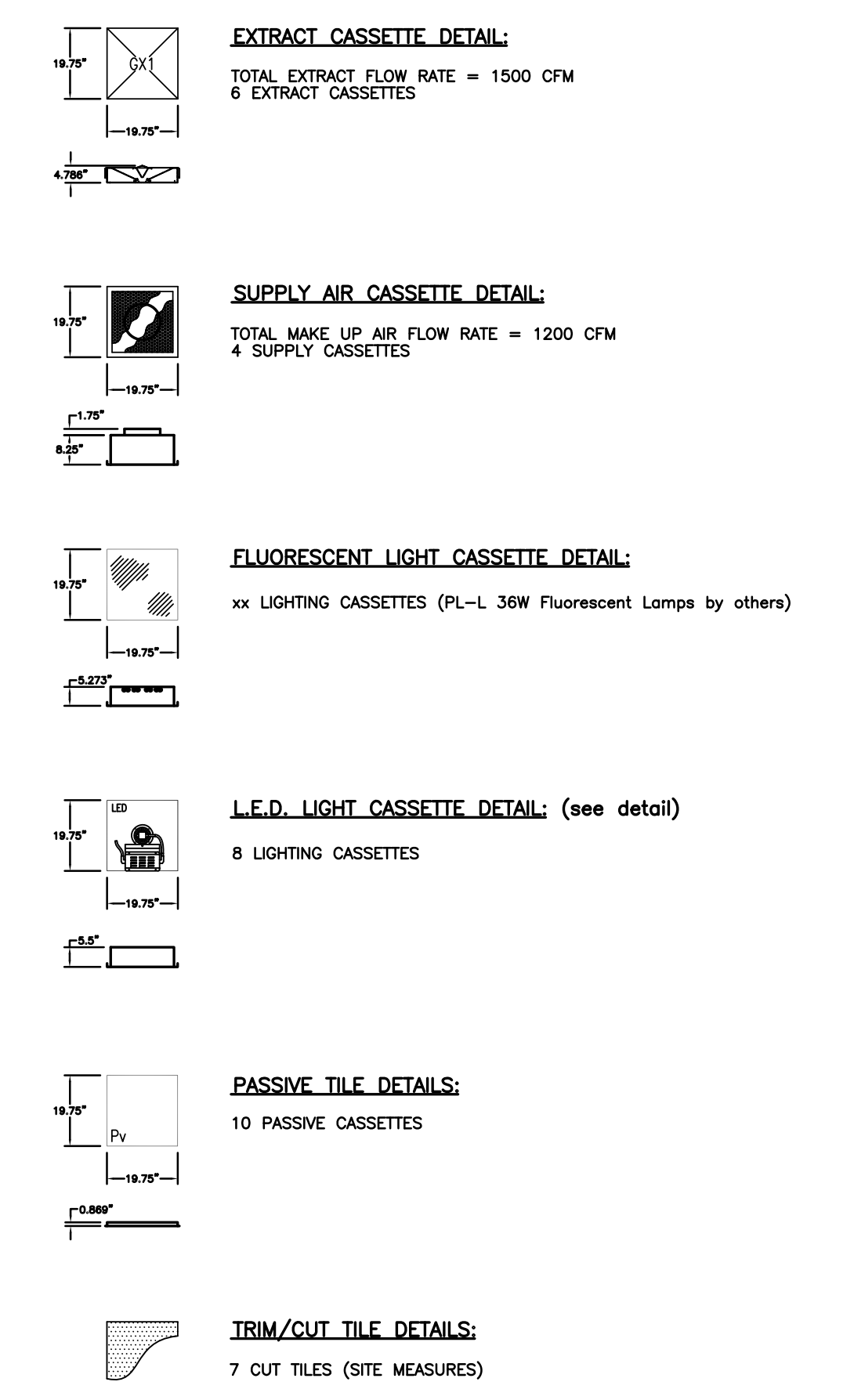
THE VCS SHALL BE COMPRISED OF:

- STRUCTURAL GRID c/w HANGER BRACKETS FABRICATED OF 300 SERIES STAINLESS STEEL IN ACCORDANCE WITH THE MANUFACTURER'S DRAWING.
- REMOVABLE, WASHABLE, HIGH-EFFICIENCY CENTRIFUGAL EXTRACTOR CASSETTES FABRICATED OF 300 SERIES STAINLESS STEEL. THE LOCATION, QUANTITY AND MOUNTING HEIGHT TO BE SUPPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DRAWING.
- PLENUM BOXES, c/w BALANCING DAMPERS, ALL WELDED, LIQUID TIGHT STEEL CONSTRUCTION TO CAPTURE AND CONTAIN VAPOR EXHAUSTED BY EXTRACTOR CASSETTES. THE QUANTITY AND LOCATION TO BE SUPPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DRAWING.
- PERFORATED SUPPLY AIR CASSETTES FABRICATED OF 300 SERIES STAINLESS STEEL. THE LOCATION, QUANTITY AND MOUNTING HEIGHT TO BE SUPPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DRAWING.
- BLANK OR PASSIVE CASSETTES FABRICATED OF 300 SERIES STAINLESS STEEL. THE LOCATION, QUANTITY AND MOUNTING HEIGHT TO BE SUPPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DRAWING.
- FLOURESCENT, INCANDESCENT OR L.E.D. (specify) LIGHTING CASSETTES. THE LOCATION, QUANTITY AND MOUNTING HEIGHT TO BE SUPPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DRAWING.

HALTON SHALL PROVIDE FACTORY TRAINED PERSONNEL TO SUPERVISE INSTALLATION OF THE SYSTEM.

THE VENTILATED CEILING SYSTEM SHALL BE ETL LISTED AND INSTALLED IN ACCORDANCE WITH APPLICABLE CODES.

**VENTILATED CEILING CASSETTE DETAILS**



**V.C.S. COMPONENT CHART**

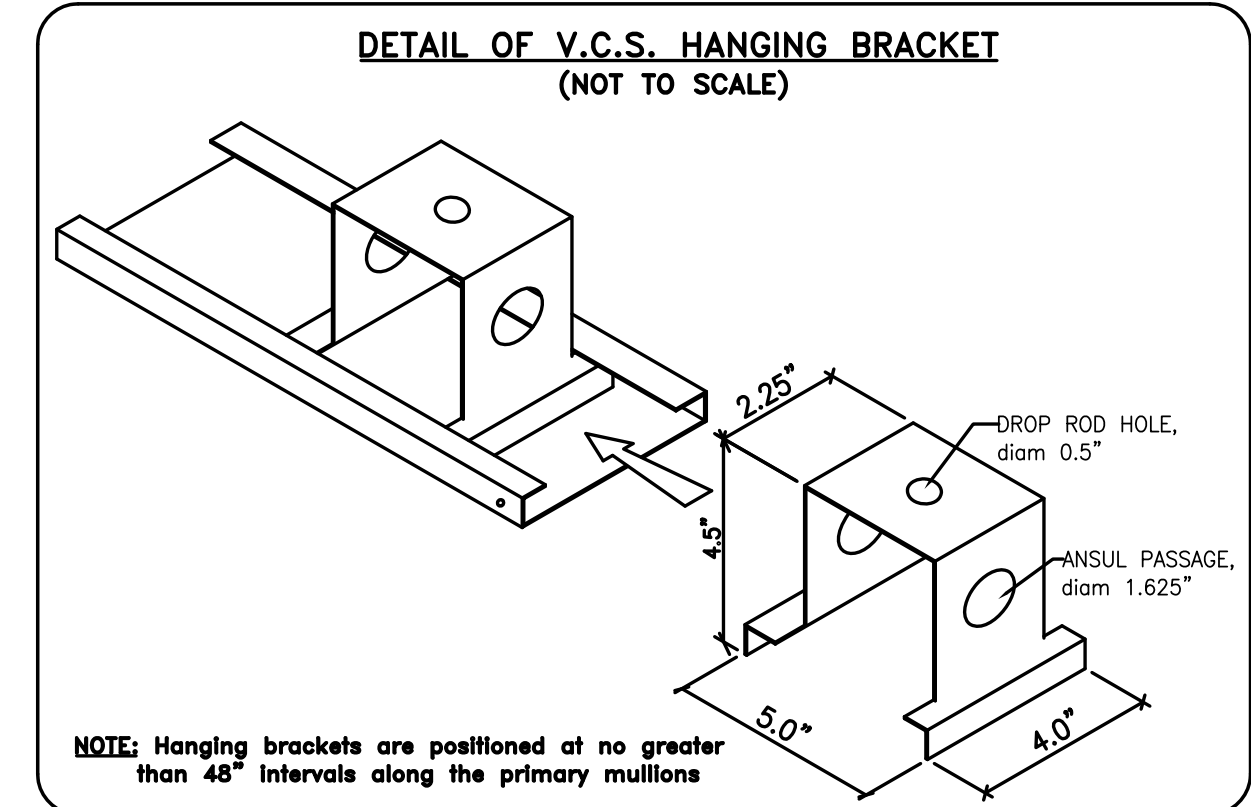
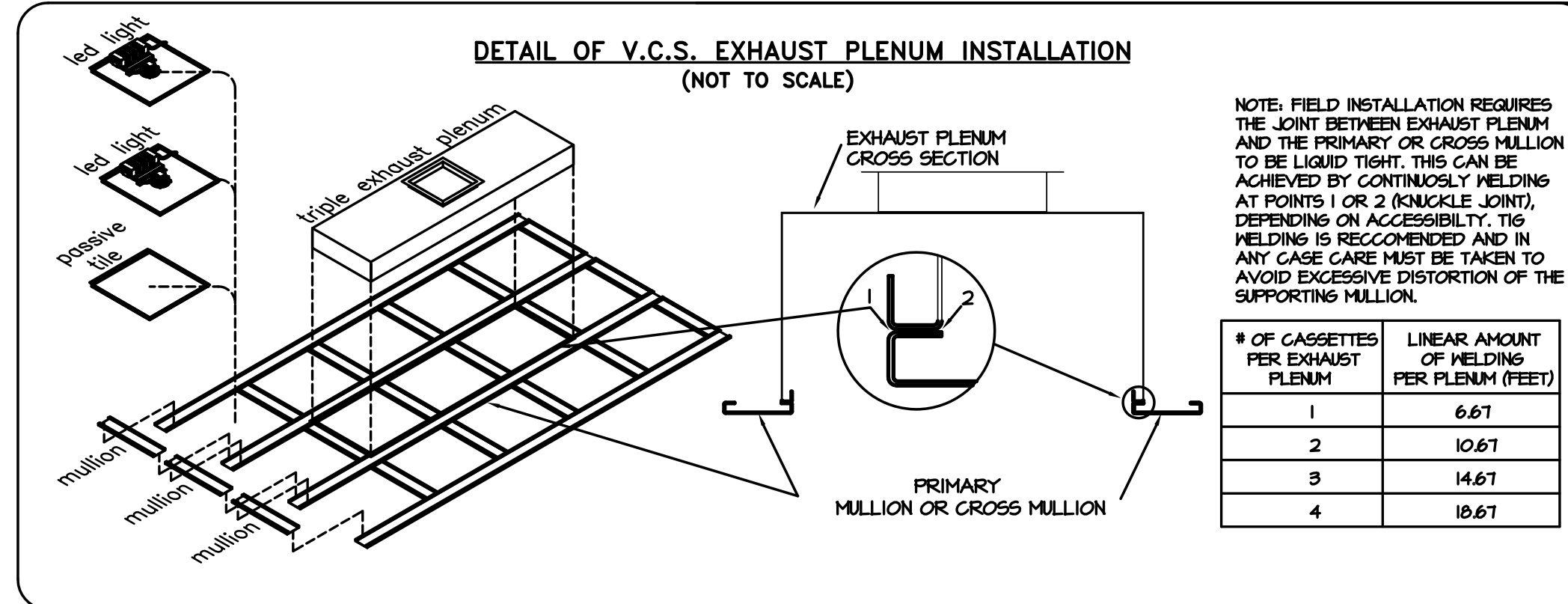
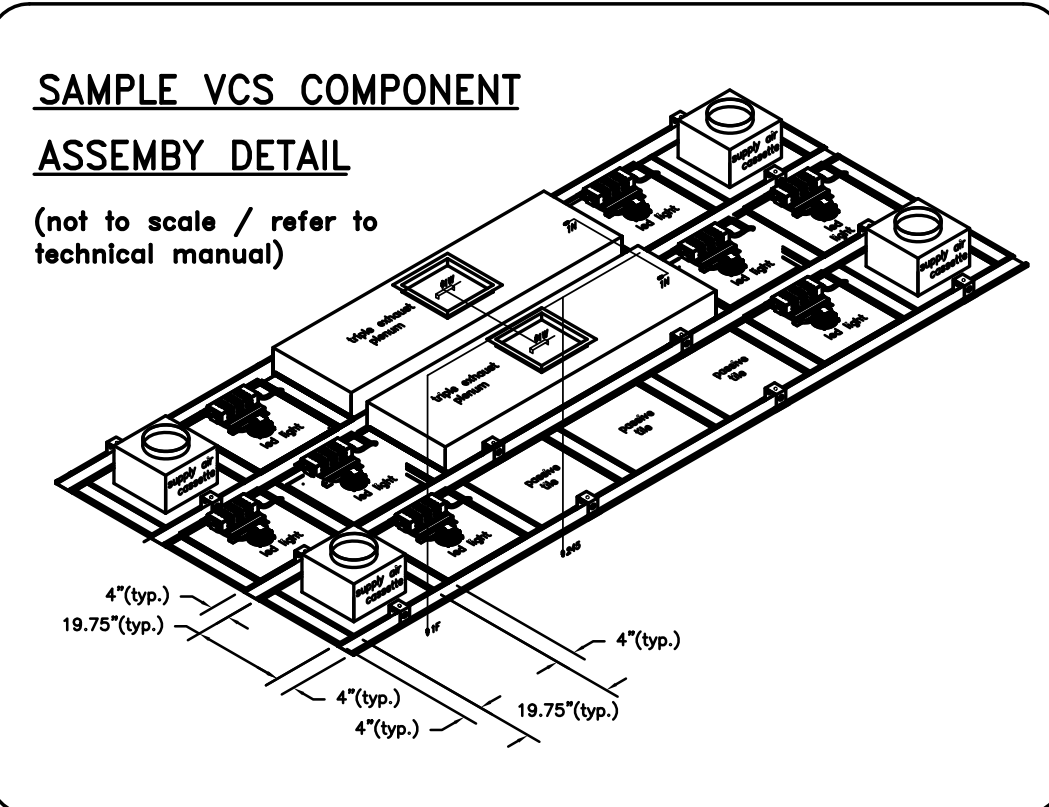
COMPONENT	QTY
Extract Cassette	6
Supply Air Cassette	4
Passive Tile	10
Trim/Cut Tile (field cut required)	7
Exhaust Plenums	2
Primary Mullion (9'-10.5' max.)	10
Mullion Connector	5
Standard Mullion	36
Extraction Mullion	4
Perimeter Mullion	6
Ceiling Bracket	32
Incandescent Light Assembly	0
Fluorescent Light Assembly	0
L.E.D. Light Assembly	8

**INSTALLATION NOTES:**

THE V.C.S. IS HUNG MUCH LIKE A CONVENTIONAL HOOD, BY THE BRACKETS SUPPLIED AND SECURED TO THE BUILDING STRUCTURE. THREADED RODS (SUPPLIED BY INSTALLER) USED TO SUSPEND THE V.C.S. SHOULD BE ATTACHED TO STRUCTURAL MOUNTING POINTS AS DETERMINED BY A MECHANICAL/STRUCTURAL ENGINEER. PLEASE REFER TO INSTALLATION MANUAL FOR LOAD STRENGTH REQUIREMENTS AND DETAILS. THE V.C.S. SHALL BE INSTALLED PLUMB AND LEVEL.

THE EXHAUST PLENUMS ARE CONTINUOUSLY WELDED AND LIQUID TIGHT CONSTRUCTION. INSTALLATION AND CONNECTED DUCT TO BE PER NFPA96 OR AHJ REQUIREMENTS. CLEARANCES:  
18" TO COMBUSTIBLE SURFACE.  
3" TO LIMITED COMBUSTIBLE SURFACE.  
0" TO NON COMBUSTIBLE SURFACE.

UNDER NO CIRCUMSTANCES IS THE CEILING VOID TO BE USED AS A DUCTLESS MEANS OF CONVEYING THE EXHAUST AIR.



**NOTE:**

ON SITE SUPERVISION SUPPLIED BY HALTON. PLEASE CONTACT HALTON TWO WEEKS BEFORE INSTALLATION IS TO BEGIN TO COORDINATE. DURATION OF SITE SUPERVISION TO BE DETERMINED BASED ON SIZE & SCOPE OF INDIVIDUAL PROJECT.

EXHAUST AND MAKE UP AIR FANS & DUCT WORK, ELECTRICAL CONNECTION, TEST & AIR BALANCING, INSTALLATION, PERMITS, AND FIRE PROTECTION ARE NOT INCLUDED UNLESS SHOWN OR SPECIFIED OTHERWISE.

**INSTALLATION NOTE:**

SOME COMPONENTS REQUIRE FIELD CUTS TO SUIT SITE CONDITIONS (PRIMARY MULLIONS, CROSS MULLIONS, FILLER TILES).

PLEASE CONSULT V.C.S. TECHNICAL MANUAL OR CONTACT FACTORY FOR ASSISTANCE.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE PRINT ALL DIMENSIONAL INFORMATION, MOUNTING POSITION AND CLEARANCES.

1. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES WILL BE RECALCULATED AND REVISIONS WILL BE REQUIRED IN ANY OF THESE CHANGES. ALL REVISIONS WILL BE INDICATED BY A REVISION CIRCLE AND A REVISION NUMBER. REVISIONS AND RESUBMIT DRAWINGS WITH NO CHANGES WITH CHANGES AS NOTED.

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)  
INDUSTRIAL PARK  
30015 STATE ROUTE 164  
MARIETTA, GA 30066  
1-800-270-537-5800

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

HALTON CO. (CANADA)  
1000 BROADVIEW AVE. #87  
MISSISSAUGA, ONTARIO L4X 1L7  
1-905-674-0301

PROJECT: JOLIET JUNIOR COLLEGE

LOCATION: ILLINOIS

DRAWN BY: GD DATE: 11/26/12

SCALE: \_\_\_\_\_

CONSULTANT: \_\_\_\_\_

DRAWING No.: U12-716

DRAWING TITLE: V.C.S.

REV. No: 3 SHEET No: 25 of 25

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED	CHECKED	APPROVED
XXX	XXX	XXX	XXX
XXX	XXX	XXX	XXX
XXX	EFW	XXX	XXX

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K. J. WILSON ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**DEMOSNTRATION KITCHEN**  
**ISSUED FOR CONSTRUCTION**  
**VENTILATED CEILING SYSTEM DETAILS #669**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023

DATE DEC. 12, 2014

SHEET NO. **FSE-101** OF SHEETS

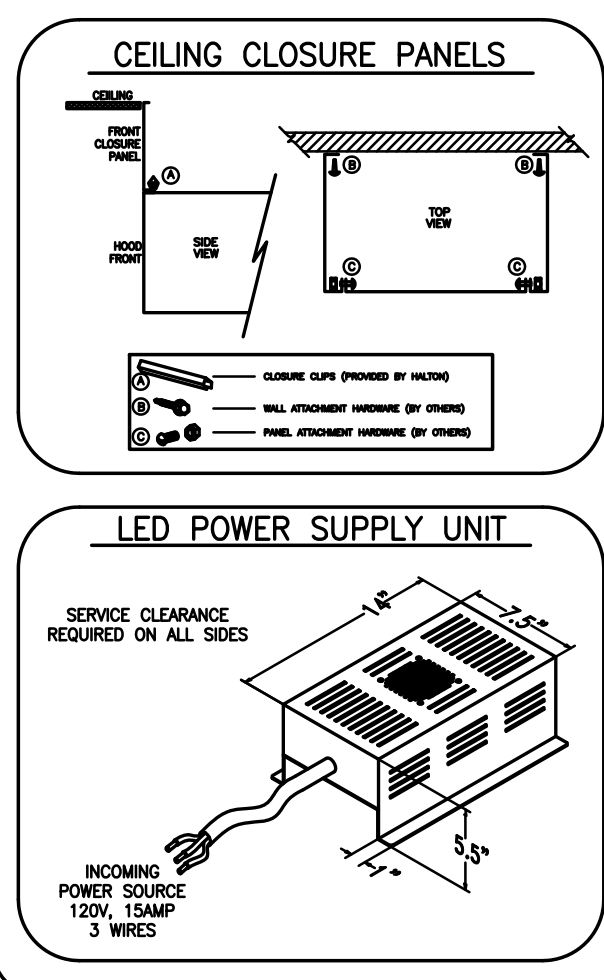
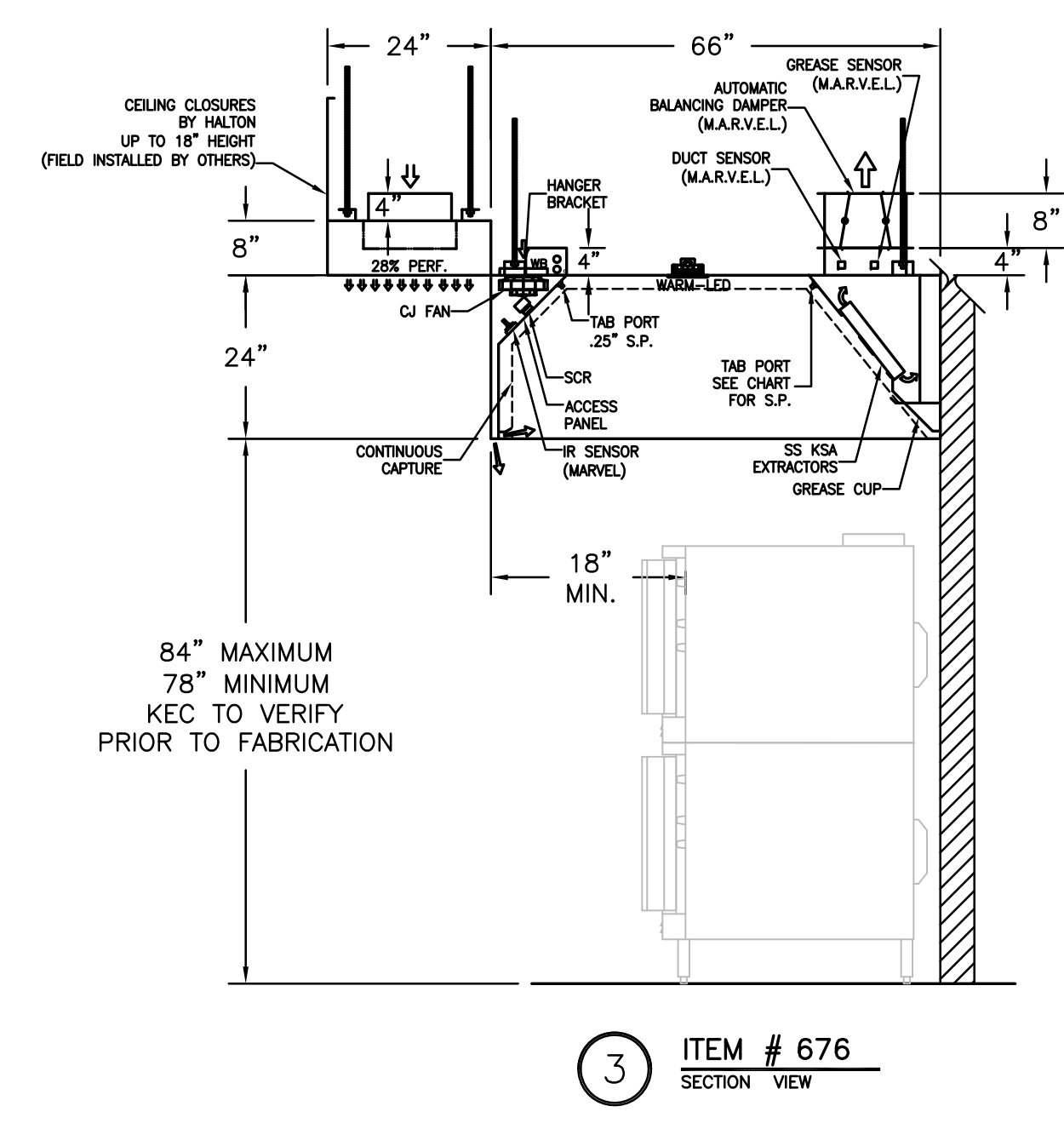
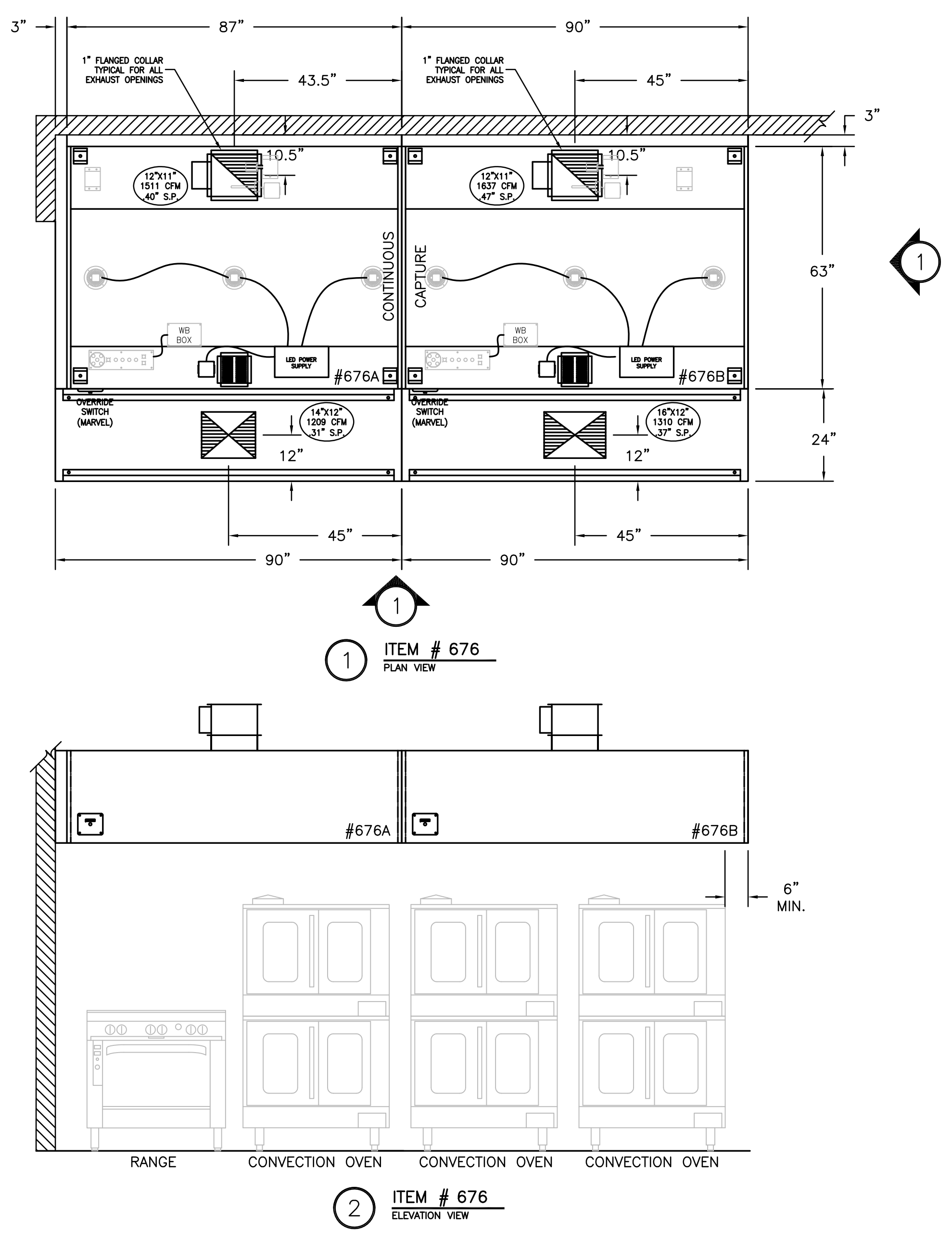
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS						GREASE EXTRACTOR			SUPPLY AIR REQUIREMENTS			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR		QTY.	SIZE	TYPE	SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR				
					QTY.	LENGTH						WIDTH	QTY.			
676A	KVE	1511	.30"	.40"	1	12"	11"	4	20"	.13"	1	14"	12"	ALL 18GA. 304 S.S.	675	113
676B	KVE	1637	.35"	.47"	1	12"	11"	4	20"	.13"	1	16"	12"	ALL 18GA. 304 S.S.	675	113

TOTAL EXH. CFM = 3148      TOTAL SUPPLY CFM = 2519

2ND FLR BANQUET PLATING 600

**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH ENG.

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



- GENERAL SPECIFICATIONS**
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAZEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

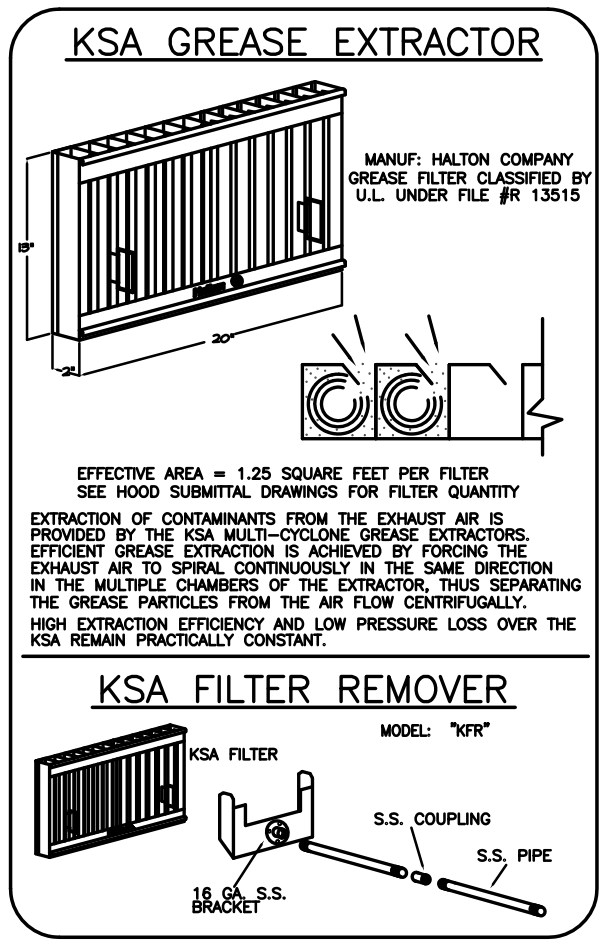
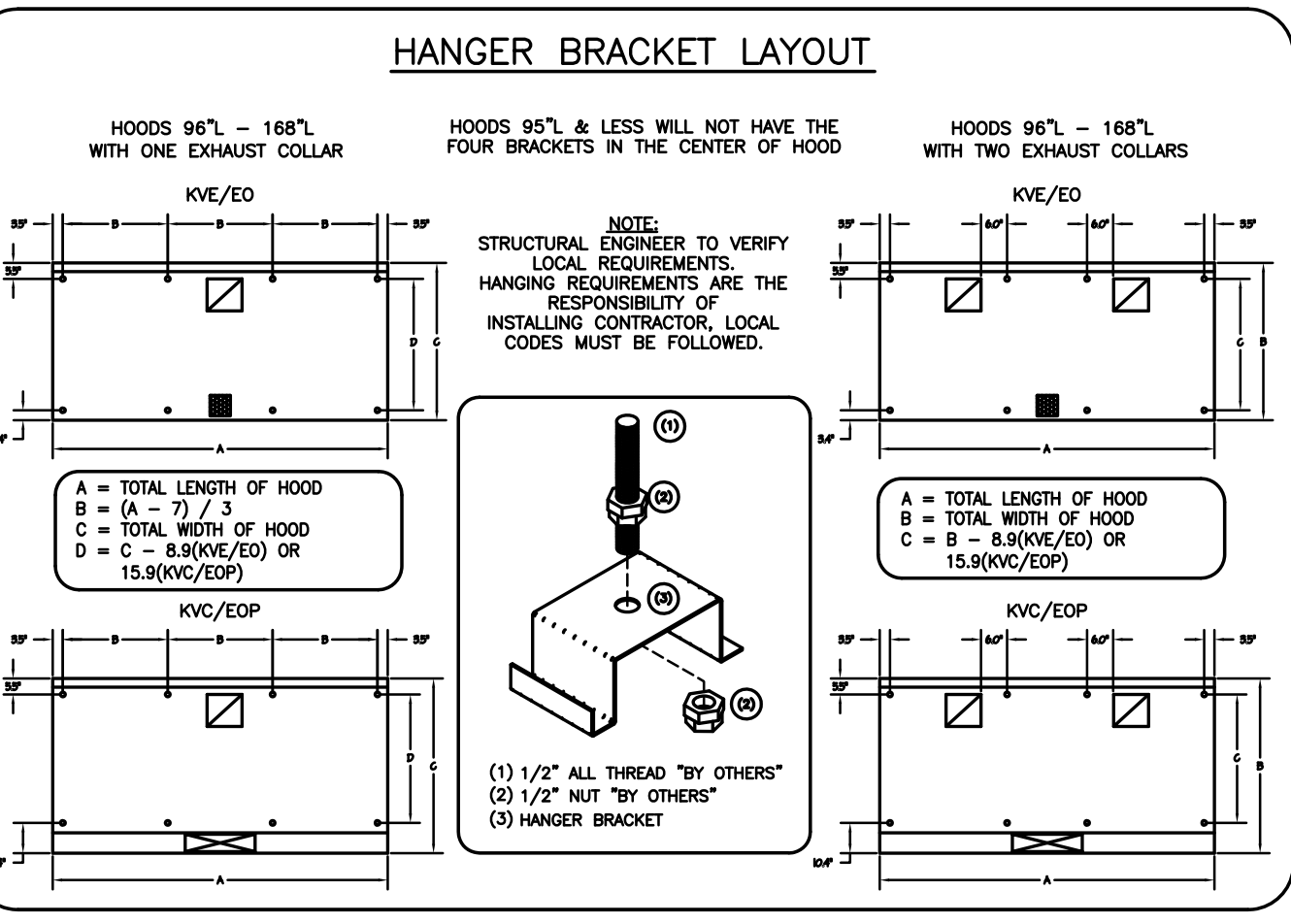
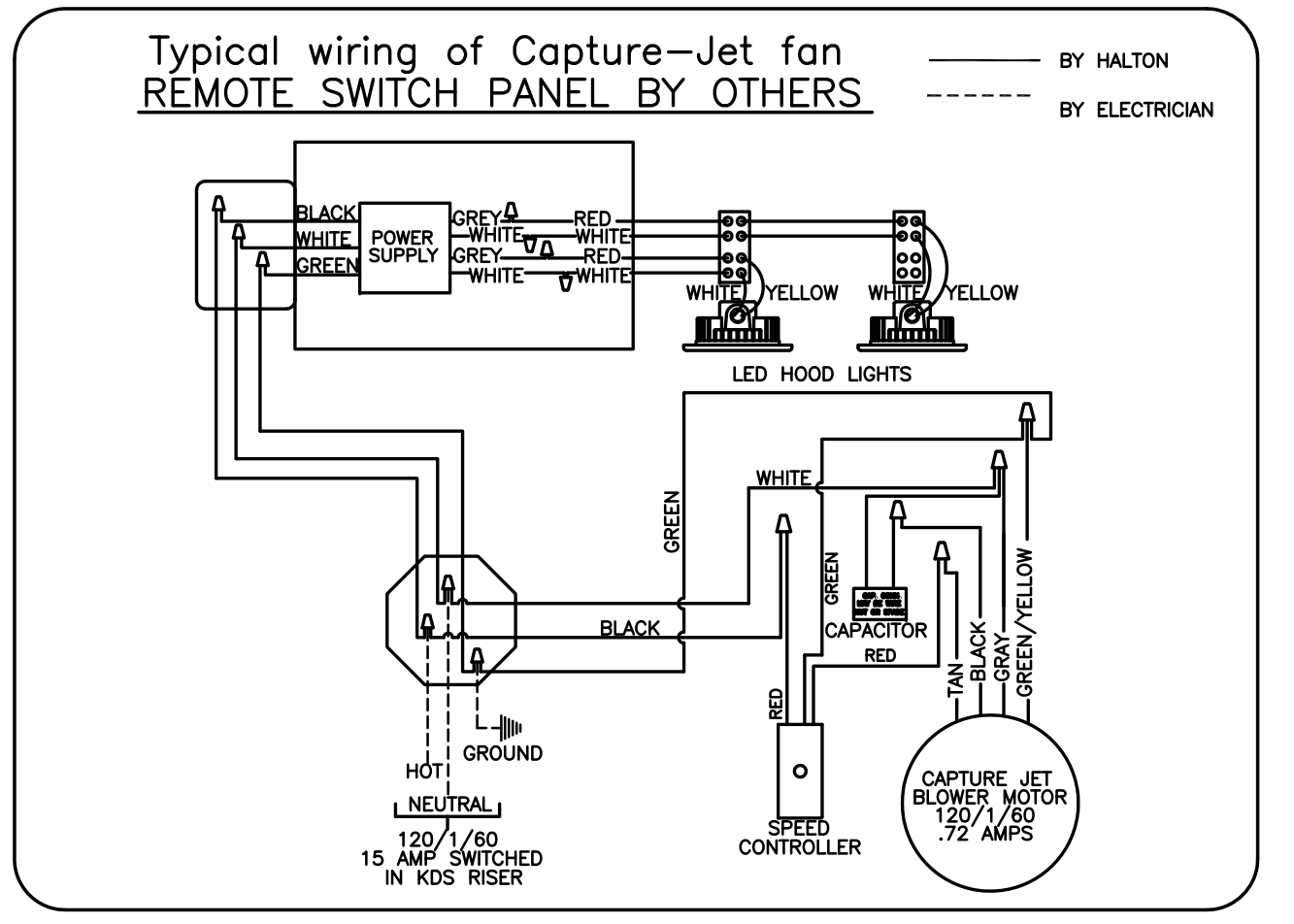
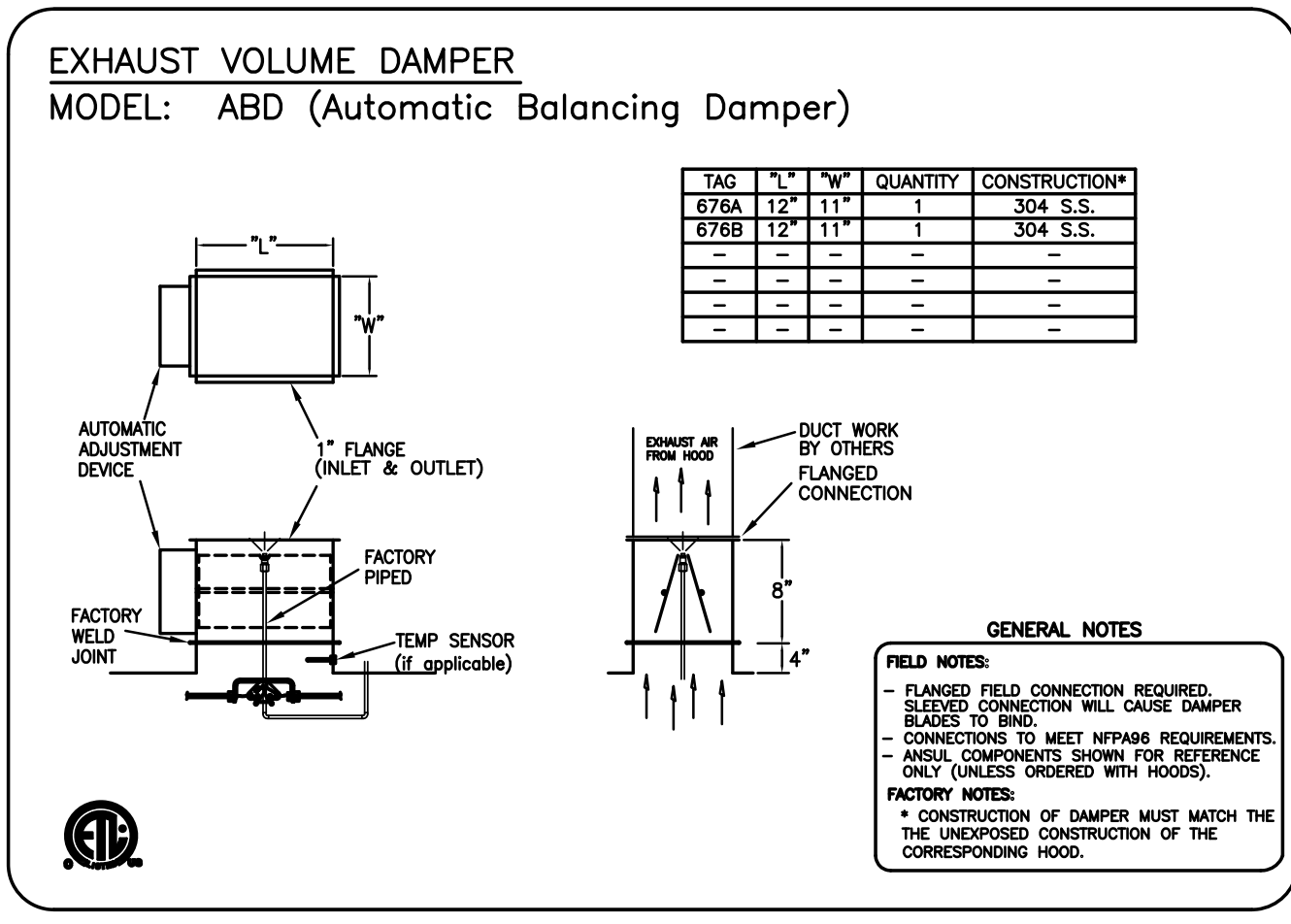
- INSTALLATION REQUIREMENTS**
- KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS**
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTIONS.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

- ELECTRICAL CONTRACTOR'S REQUIREMENTS**
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.
- ELECTRICAL EQUIPMENT REQUIREMENTS**
- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .57 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA.
  - CAPTURE JET FAN= .72 AMP EA.
- \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\* ARE TO BE PROVIDED BY OTHERS\*\*

**CEILING HEIGHT NOTE**

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:



**PERFORMANCE CRITERIA**

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION. REQUESTS FOR APPROVAL MUST INCLUDE GREASE EXTRACTION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

THE DRAWING MUST BE REVISIONED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE REFER TO THE FOLLOWING INFORMATION FOR REVISIONS:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

**NOTE TO APPROVE:** APPROVING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

REVERSE AND RESUBMIT  WITH CHANGES AS NOTED  
 APPROVED FOR FABRICATION  WITH NO CHANGES

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, KY 42164  
1-905-624-0301

HALTON CO. (CANADA)  
1021 BREVIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

REV.	DESCRIPTION	BY	DATE
1	REVISED ALL HOODS	WU	01.29.14
2	ADDED NOTE	WU	04.03.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4			
5			
6			
7			

PROJECT: JOLIET JUNIOR COLLEGE  
 LOCATION: JOLIET, IL  
 DRAWN BY: BM  
 DATE: 11.30.12  
 SCALE: NOT TO SCALE  
 CONSULTANT: EF WHITNEY

DRAWING TITLE: HOOD DETAILS  
 DRAWING NO.: U12-716  
 REV. NO.: 3 SHEET NO.: 13 of 25

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
Issued for Construction	07/31/15	

PREPARED: XXX OFF.  
 TRACED: XXX APPROVED: XXX  
 CHECKED: XXX APPROVED: EFW

**dk** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**KJW** KJWW ENGINEERING  
 1100 WARRENVILLE ROAD, #400W  
 NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET  
 BIRMINGHAM, MI 48009  
 T: 248.644.0990

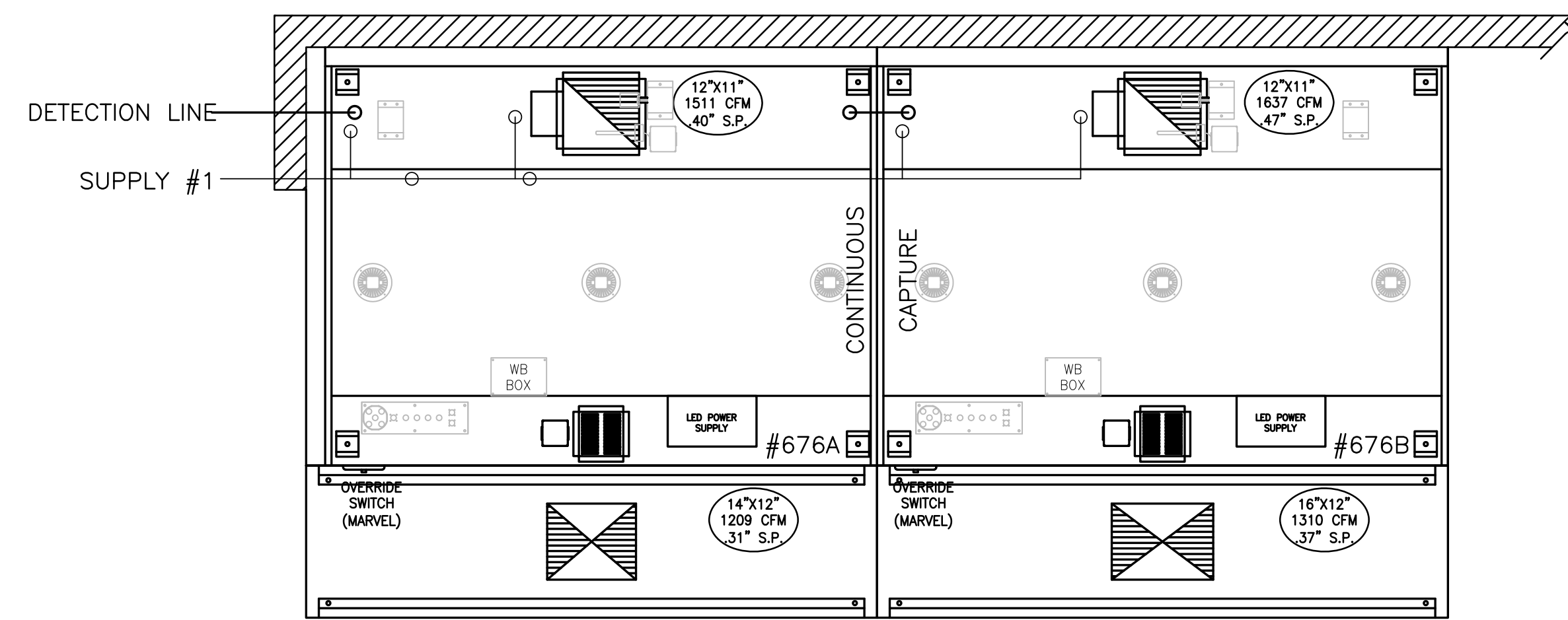
**BALLROOM KITCHEN**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #676**

PROJECT NO. CDB 810-048-023  
 DATE: DEC. 12, 2014  
 SHEET NO. FSE-102 OF SHEETS

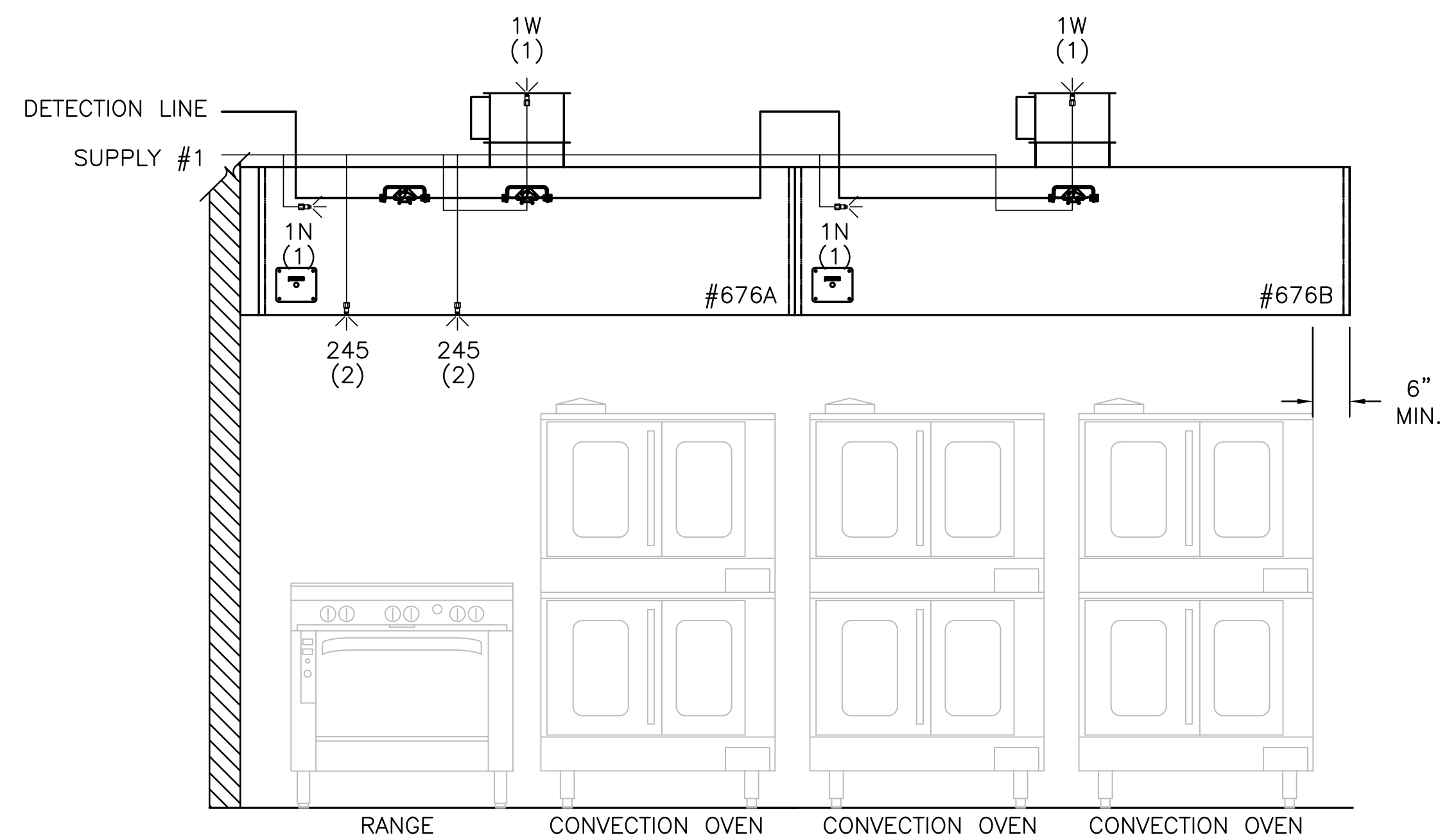
CITY CENTER CAMPUS  
 JOLIET JUNIOR COLLEGE



# 2ND FLR BANQUET PLATING 600



1 ITEM # 676  
PLAN VIEW

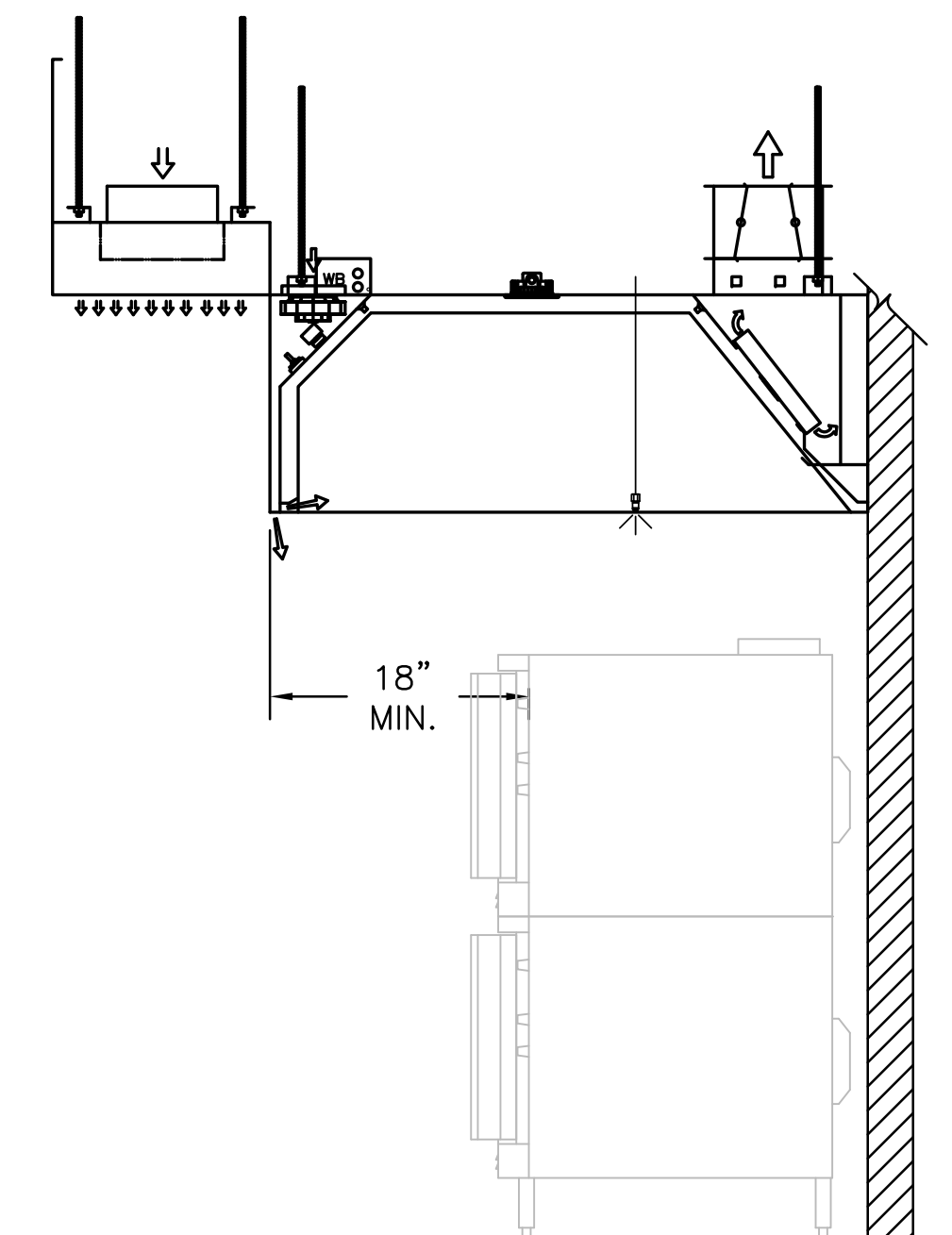


2 ITEM # 676  
ELEVATION VIEW

- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

**RECOMMENDED PIPING**  
FIRE SYSTEM TO BE FURNISHED AND INSTALLED IN THE FIELD BY THE GC'S FIRE SYSTEM INSTALLATION CONTRACTOR. THIS SHEET CONTAINS HALTONS RECOMMENDED PIPING DETAILS

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



3 ITEM # 676  
SECTION VIEW

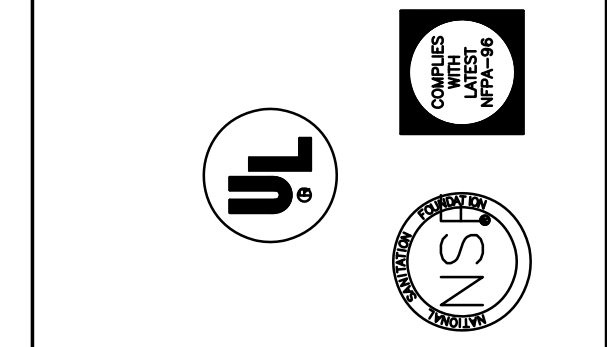
THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND TYPE OF COOKING EQUIPMENT.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

**NOTE TO APPROVER:** THE APPROVER MUST VERIFY THAT ALL DIMENSIONS, MOUNTING POSITIONS AND TYPE OF COOKING EQUIPMENT ARE CORRECT. APPROVAL MUST BE NOTED IF ANY CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION  WITH NO CHANGES  WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA) 1001 BRYAN PLACE SCOTTSDALE, KY 42164 1-800-237-5600	DATE
BY	DATE
WU	01.29.14
WU	04.09.14
WU	06.03.14

REV.	DESCRIPTION	REVISION
1	REVISED ALL HOODS	
2	NO CHANGE	
3	REMOVED LIGHT SWITCH FROM HOOD	
4		
5		
6		
7		

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	BM
SCALE:	NOT TO SCALE
CONSULTANT:	EF WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-716
REV. NO.:	3
SHEET NO.:	14 of 25

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED
XXX	XXX
OFF.	OFF.
TRACED	APPROVED
XXX	XXX
CHECKED	APPROVED
XXX	EFW

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>BALLROOM KITCHEN</b> <b>ISSUED FOR CONSTRUCTION</b> <b>HALTON - PLANS and DETAILS #677 - FIRE SYSTEM</b>	PROJECT NO. CDB 810-048-023
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>	DATE DEC. 12, 2014
<b>FSE-103</b> OF SHEETS	SHEET NO. 14 of 25



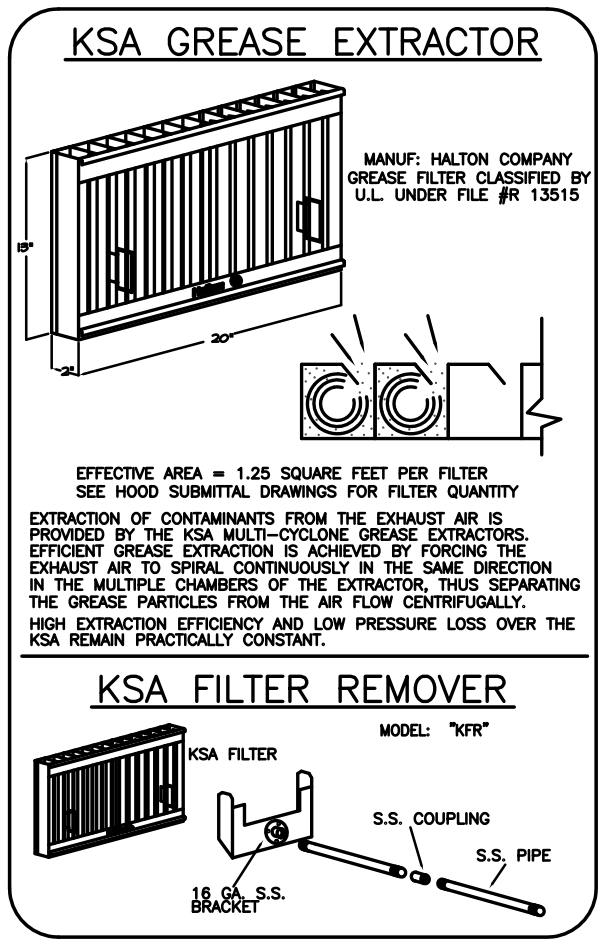
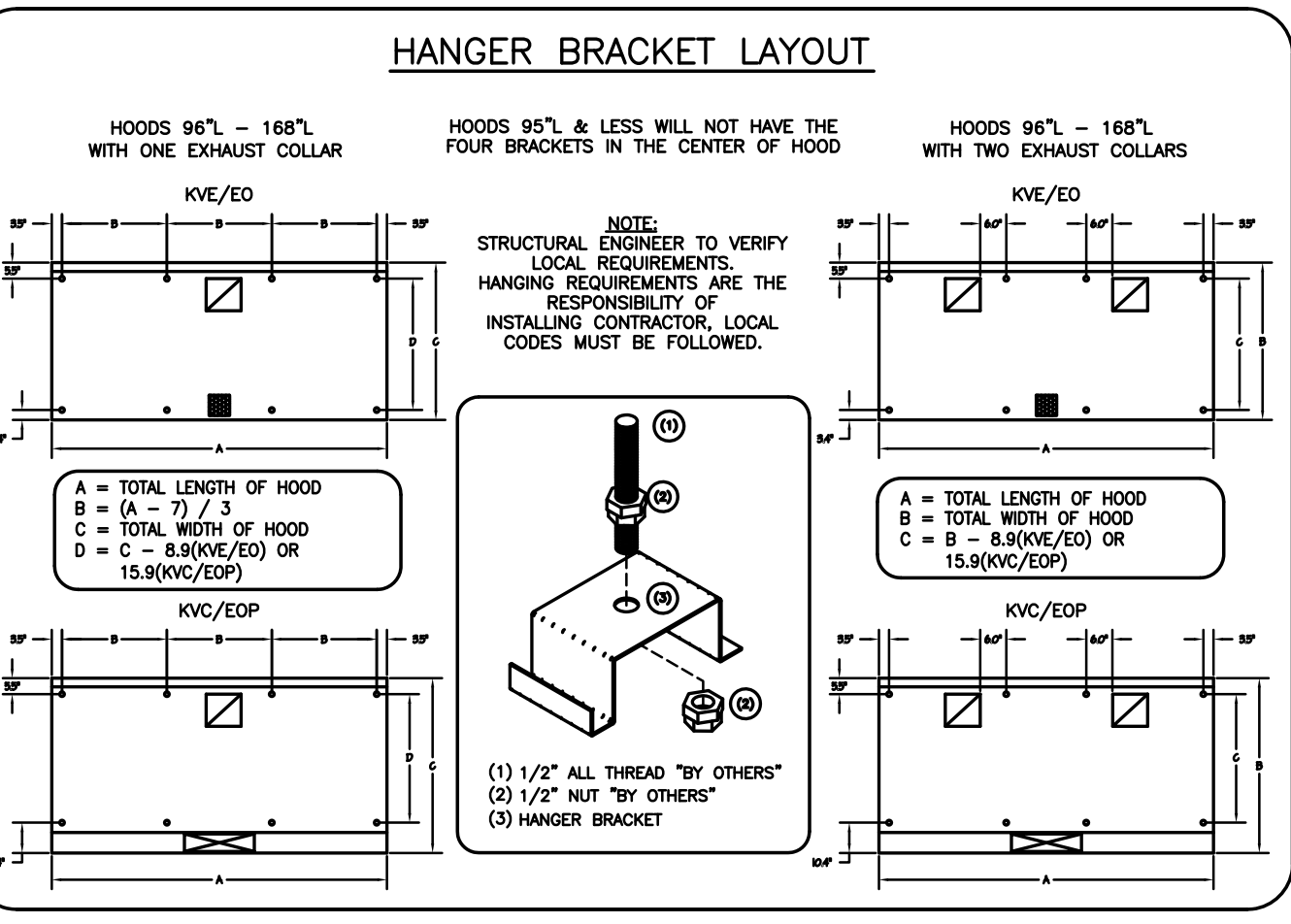
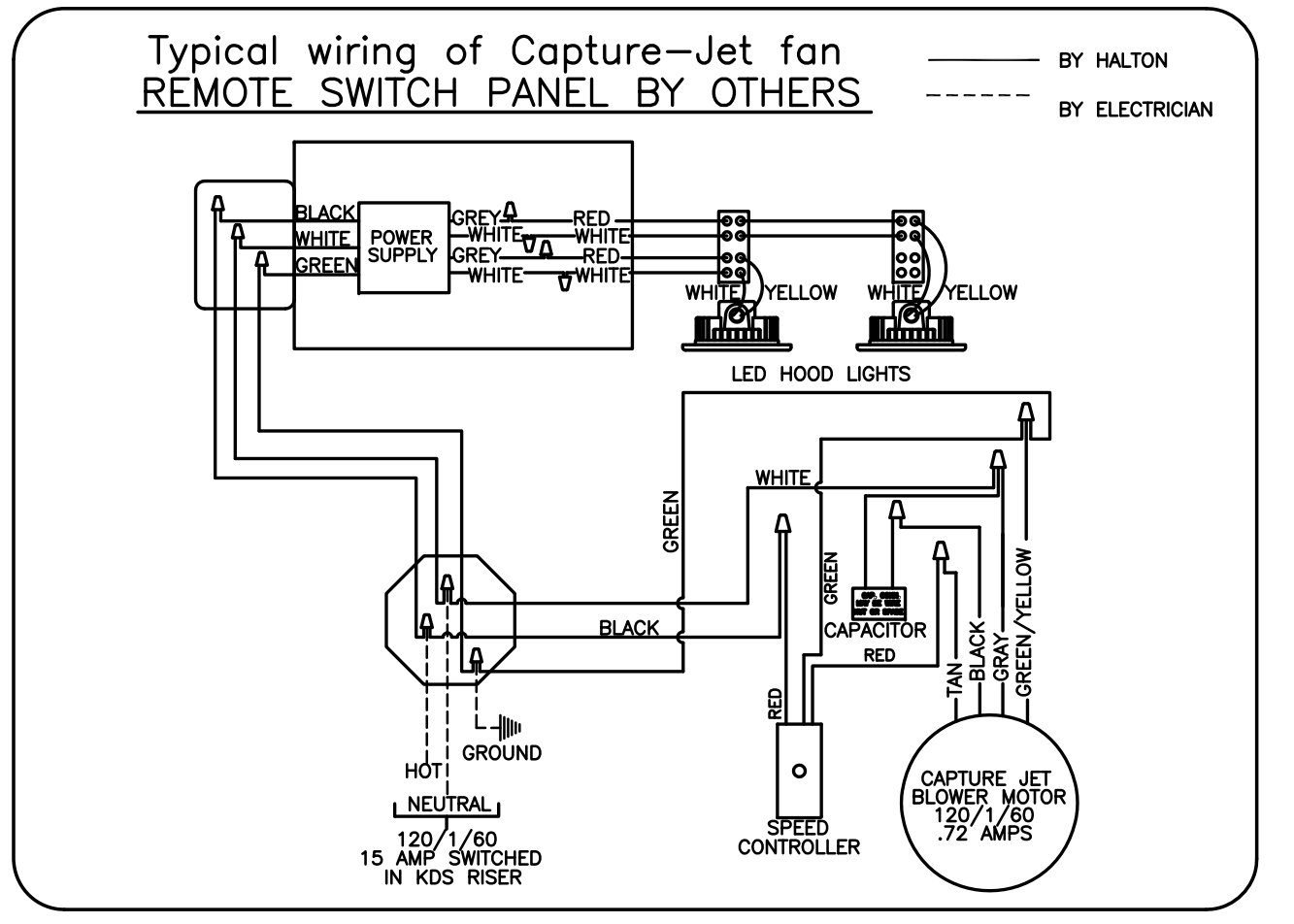
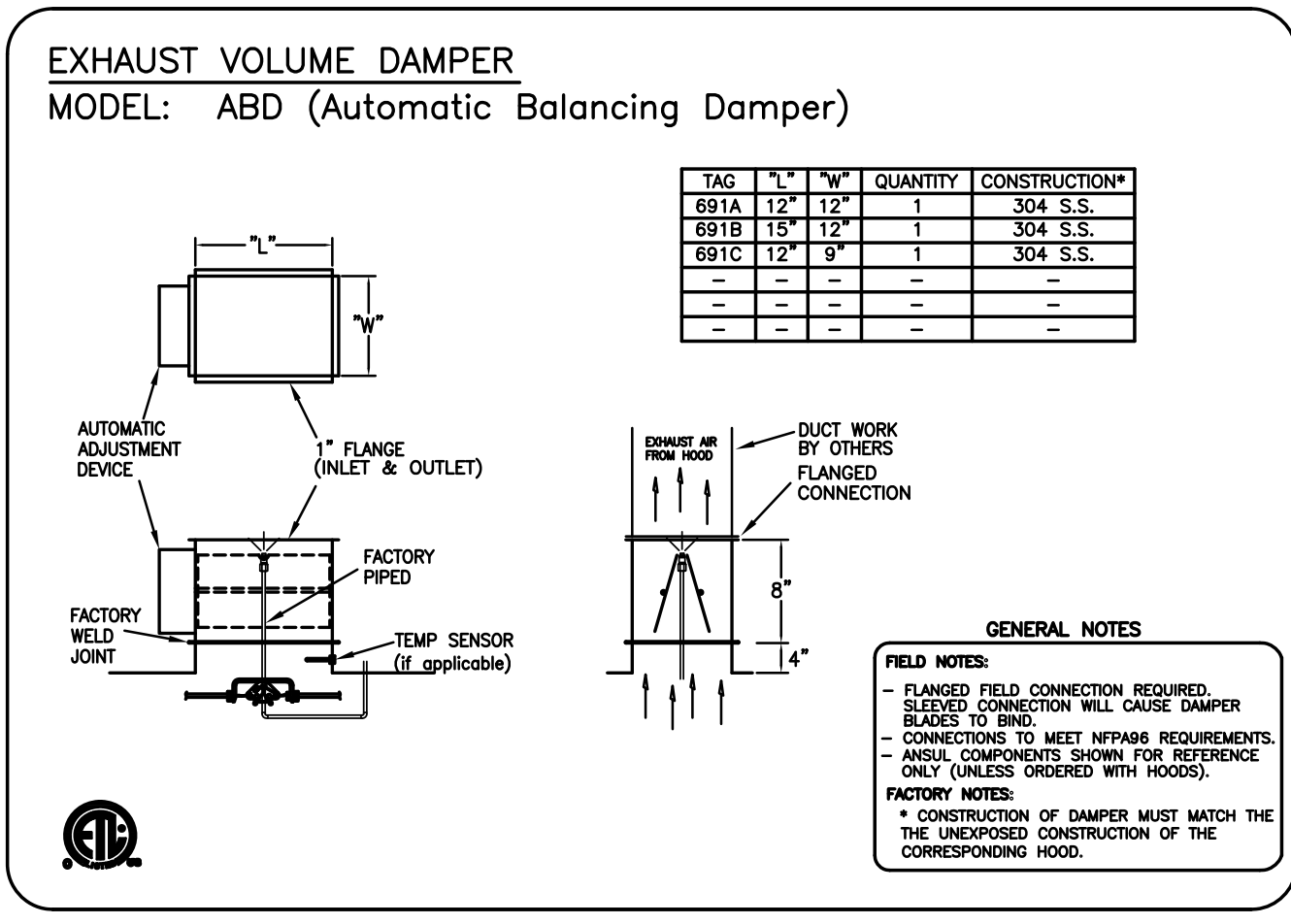
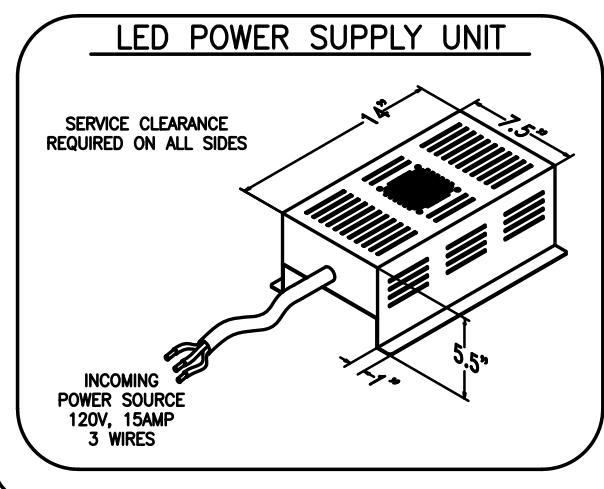
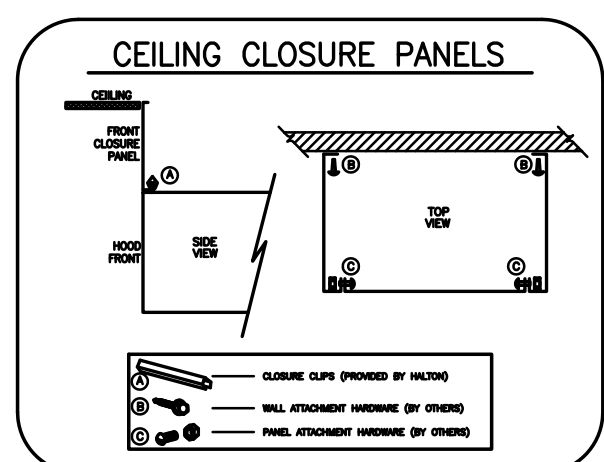
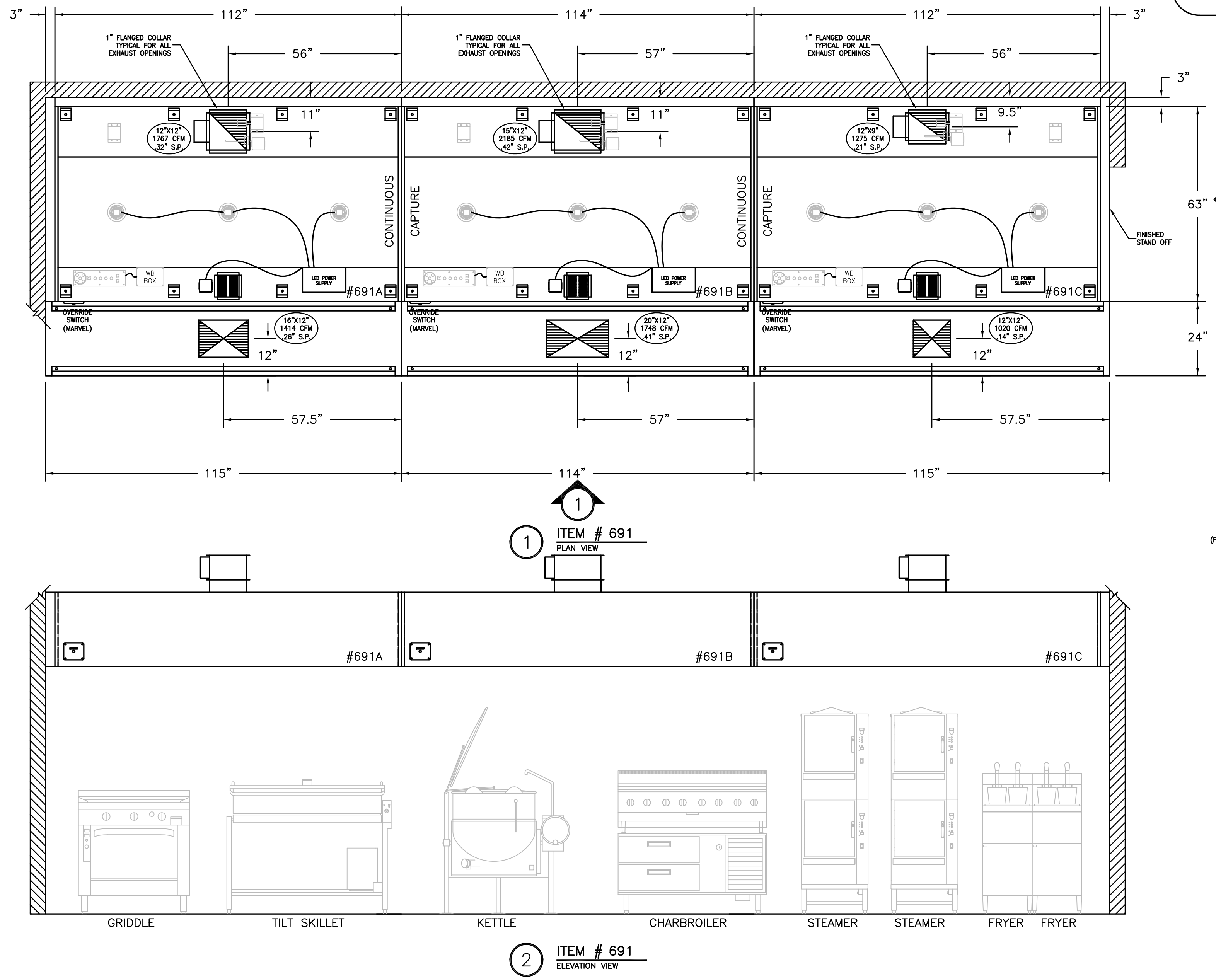
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS					GREASE EXTRACTOR			SUPPLY AIR REQUIREMENTS			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)				
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR		QTY.	SIZE	TYPE	SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR							
					QTY.	LENGTH						WIDTH				QTY.	LENGTH	WIDTH	
691A	KVE	1767	.20"	.32"	1	12"	12"	5	20"	13"	KSA	1414	.26"	1	16"	12"	ALL 18GA. 304 S.S.	862	144
691B	KVE	2185	.31"	.42"	1	15"	12"	5	20"	13"	KSA	1748	.41"	1	15"	12"	ALL 18GA. 304 S.S.	855	143
691C	KVE	1275	.10"	.21"	1	12"	9"	5	20"	13"	KSA	1020	.14"	1	12"	12"	ALL 18GA. 304 S.S.	862	144

TOTAL EXH. CFM = 5227      TOTAL SUPPLY CFM = 4182

## 2ND FLR BANQUET PLATING 600

**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH ENG.

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



**PERFORMANCE CRITERIA**

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURER'S OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

- GENERAL SPECIFICATIONS**
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAZEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

- INSTALLATION REQUIREMENTS**
- KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS**
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTIONS.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- ELECTRICAL CONTRACTOR'S REQUIREMENTS**
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

- ELECTRICAL EQUIPMENT REQUIREMENTS**
- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .67 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA.
  - CAPTURE JET FAN= .72 AMP EA.
- \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*
- \*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*

**CEILING HEIGHT NOTE**

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:

THIS DRAWING MUST BE SIGNED, SEALED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING INFORMATION. MOUNTING POSITIONS 1. ALL DIMENSIONS INFORMATION. MOUNTING POSITIONS 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT. NOTE TO APPROVE: EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

REVISION AND RESUBMIT:  WITH CHANGES AS NOTED  
APPROVED FOR FABRICATION:  WITH NO CHANGES

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

REV.	DESCRIPTION	BY	DATE
1 <td>REVISED ALL HOODS <td>WU <td>01.29.14</td> </td></td>	REVISED ALL HOODS <td>WU <td>01.29.14</td> </td>	WU <td>01.29.14</td>	01.29.14
2 <td>ADDED NOTE <td>WU <td>04.09.14</td> </td></td>	ADDED NOTE <td>WU <td>04.09.14</td> </td>	WU <td>04.09.14</td>	04.09.14
3 <td>REMOVED LIGHT SWITCH FROM HOOD <td>WU <td>06.03.14</td> </td></td>	REMOVED LIGHT SWITCH FROM HOOD <td>WU <td>06.03.14</td> </td>	WU <td>06.03.14</td>	06.03.14
4 <td></td> <td></td> <td></td>			
5 <td></td> <td></td> <td></td>			
6 <td></td> <td></td> <td></td>			
7 <td></td> <td></td> <td></td>			

FACTORY: HALTON CO. (CANADA) 1021 BREWIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301

FACTORY: HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42164 1-270-237-5600

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: BM DATE: 11.30.12  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS  
DRAWING NO.: U12-716  
REV. NO.: 3 SHEET NO.: 15 of 25

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
Issued for Construction		07/31/15

PREPARED: XXX OFF.  
TRACED: XXX APPROVED: XXX  
CHECKED: XXX APPROVED: EFW

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000

**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320

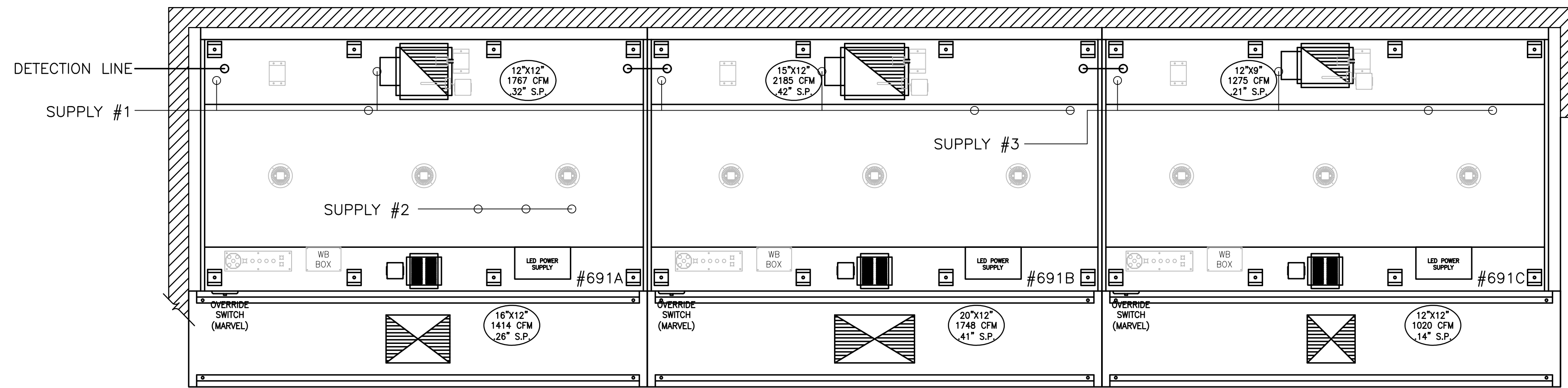
**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990

**BALLROOM KITCHEN**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #691**

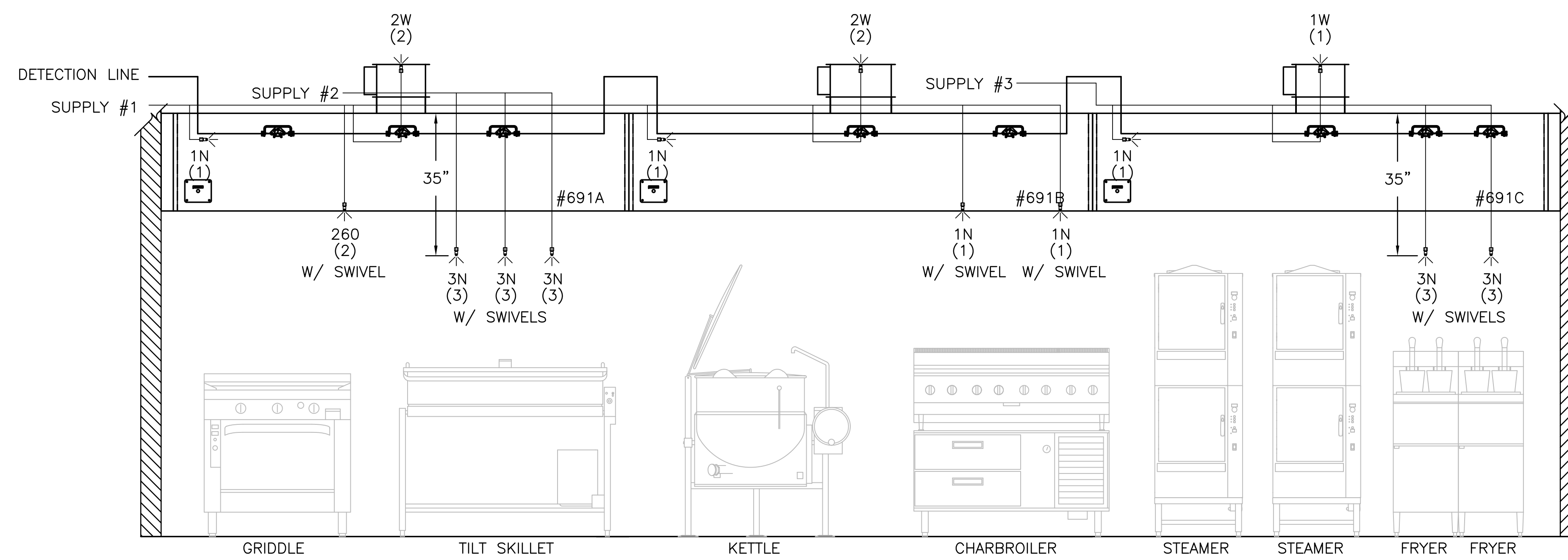
PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. FSE-104 OF SHEETS

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

# 2ND FLR BANQUET PLATING 600



1 ITEM # 691  
PLAN VIEW



2 ITEM # 691  
ELEVATION VIEW

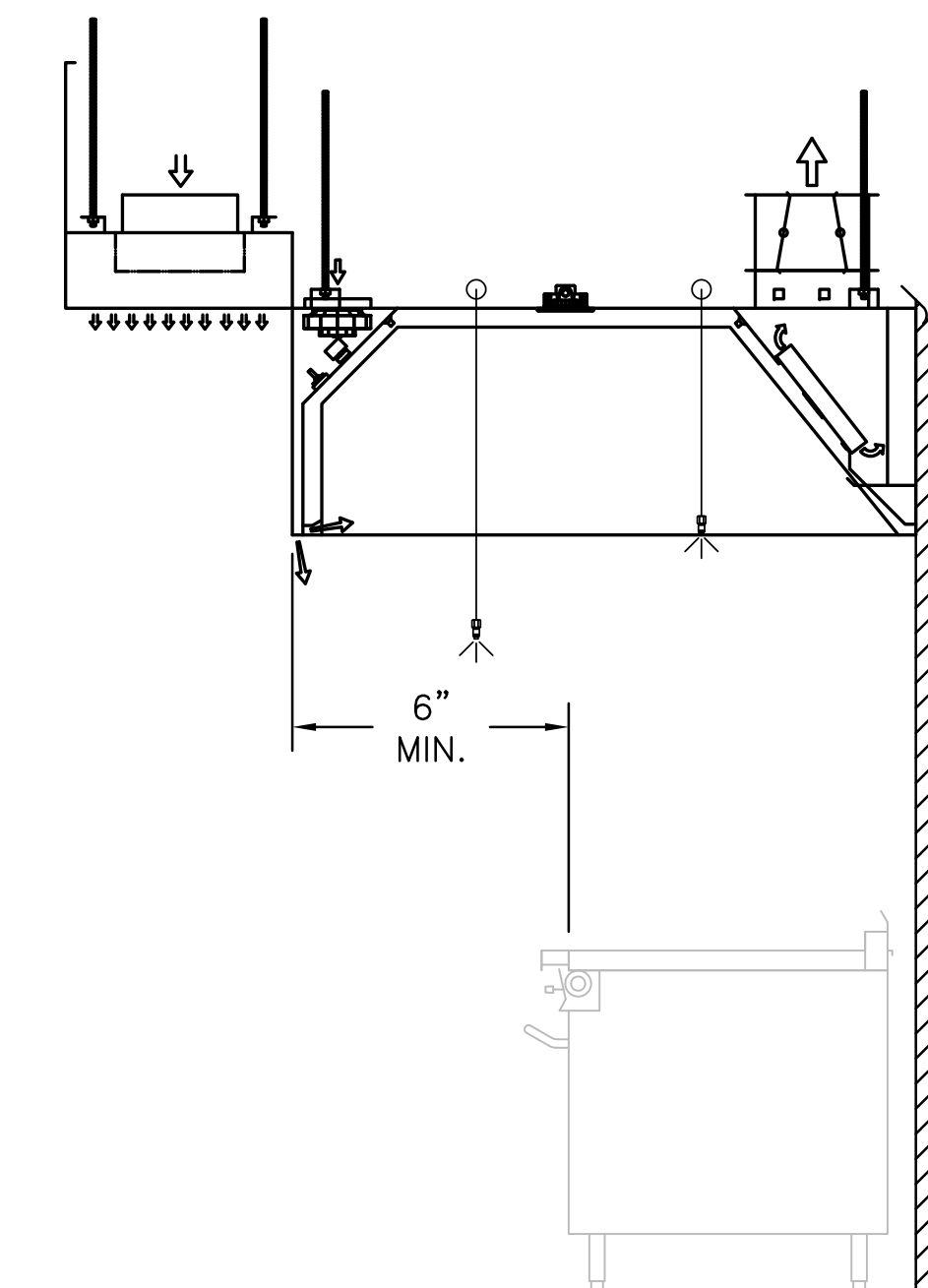
- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

## RECOMMENDED PIPING

FIRE SYSTEM TO BE FURNISHED AND INSTALLED IN THE FIELD BY THE GC'S FIRE SYSTEM INSTALLATION CONTRACTOR. THIS SHEET CONTAINS HALTONS RECOMMENDED PIPING DETAILS

## NOTE

HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



3 ITEM # 691  
SECTION VIEW

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: THIS DRAWING IS FOR INFORMATION ONLY. ANY CHANGES TO THE EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION:  WITH NO CHANGES  WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREYK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED ALL HOODS	WU	01.29.14
2	NO CHANGE	WU	04.09.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4			
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	BM
DATE:	11.30.12
SCALE:	NOT TO SCALE
CONSULTANT:	EF WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-716
REV. NO.:	3
SHEET NO.:	16 of 25

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<p><b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000</p>	<p><b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320</p>	<p><b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990</p>
---	---	--

<b>BALLROOM KITCHEN</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>HALTON - PLANS and DETAILS #692 - FIRE SYSTEM</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-105</b>		OF SHEETS







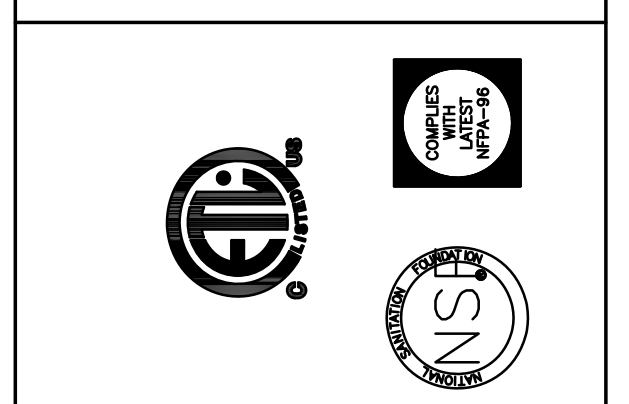
ELECTRICAL & DATA CABLE CONNECTION SCHEDULE

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-M	120V, 15AMP - CONTROL PANEL POWER - 3 WIRES	BUILDING SOURCE	CONTROL PANEL
E2-M	BROADBAND INTERNET CONNECTION	BUILDING SOURCE	CONTROL PANEL
E3-M	FIRE MODE SIGNAL - TO FIRE SUPPRESSION PANEL - 2 WIRES	CONTROL PANEL	FIRE SYSTEM
E4-M	3 WIRE STP CABLE - PLENUM RATED - TO BMS(BACNET)	CONTROL PANEL	BMS
E5-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	CONTROL PANEL	HOOD #691A
E6-M	0-10V MUA SIGNAL TO BMS - 2 WIRES	CONTROL PANEL	GREASBMSSENSOR
E7-M	FIELD CONNECTION FOR MAIN DUCT GREASE SENSOR - 3 WIRES	CONTROL PANEL	
E8-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD
E9-M	2 WIRES TO SPACE TEMPERATURE SENSOR	CONTROL PANEL	TEMP SENSOR
E10-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD
E11-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR
E12-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #691A
E13-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #691A	HOOD #691B
E14-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #691B
E15-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #691B	HOOD #691C
E16-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #691C
E17-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #691C	HOOD #676A
E18-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #676A
E19-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #676A	HOOD #676B
E20-H	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #676B
E21-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #691A
E22-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #691A	HOOD #691B
E23-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #691B	HOOD #691C
E24-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #676A
E25-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #676A	HOOD #676B

2ND FLR BANQUET  
PLATING 600

NOTE  
HOODS TO BE FURNISHED  
BY USING AGENCY AND  
BE INSTALLED BY GC.

THIS DRAWING MUST BE REVISIONED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.  
PLEASE VERIFY THE FOLLOWING:  
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
NOTE TO APPROVER: COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVISE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301	HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	BY DATE
<input type="checkbox"/>	<input checked="" type="checkbox"/>	WU 01.28.14
1 INCLUDED MARVEL SHEETS		WU 04.09.14
2 REVISED CONNECTION SCHEDULE		WU 06.03.14
3 NO CHANGE		
4		
5		
6		
7		

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WJ DATE: 01.28.14  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

REVISIONS

1	INCLUDED MARVEL SHEETS
2	REVISED CONNECTION SCHEDULE
3	NO CHANGE
4	
5	
6	
7	

DRAWING No.: U12-716  
REV. NO.: 3 SHEET NO.: 24 of 25

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED
XXX	XXX
OFF.	OFF.
TRACED	APPROVED
XXX	XXX
CHECKED	APPROVED
XXX	EFW

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJWW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**BALLROOM KITCHEN**  
**ISSUED FOR CONSTRUCTION**  
**M.A.R.V.E.L. SYSTEM DETAILS #676**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

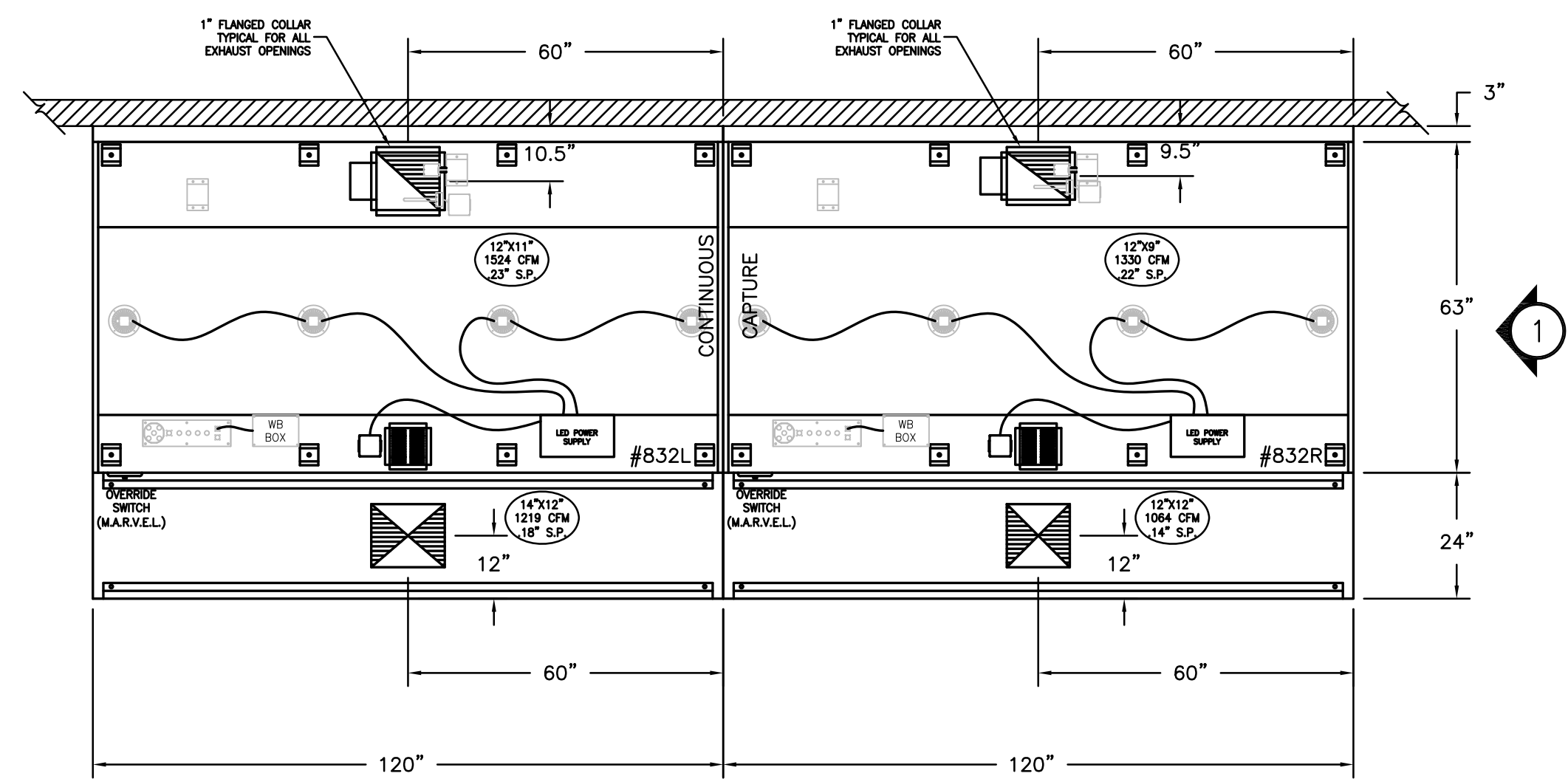
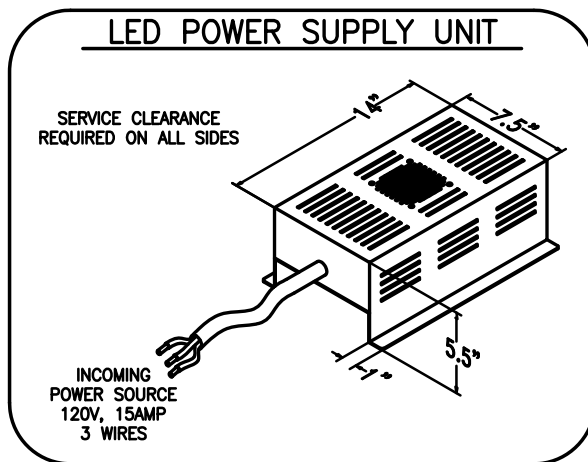
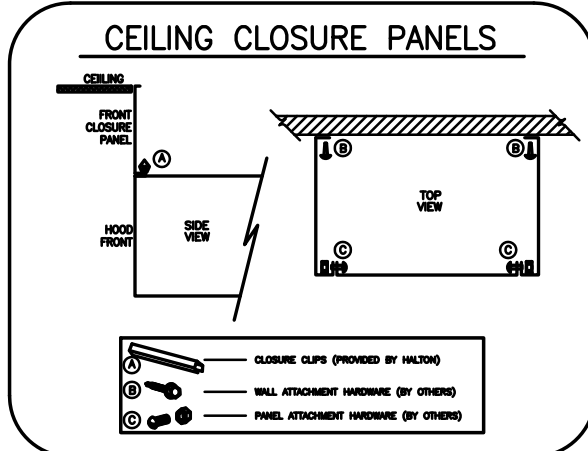
PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. **FSE-107**  
OF SHEETS

HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS				GREASE EXTRACTOR			SUPPLY AIR REQUIREMENTS			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)					
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR		QTY.	SIZE		SUPPLY CFM	SUPPLY STATIC PRESSURE				SUPPLY COLLAR				
					QTY.	LENGTH		WIDTH	L						H	QTY.	LENGTH	WIDTH	
832L	KVE	1524	.13"	.23"	1	12"	11"	6	20"	13"	KSA	1219	.18"	1	14"	12"	ALL 18GA. 304 S.S.	900	150
832R	KVE	1330	.10"	.22"	1	12"	9"	6	20"	13"	KSA	1064	.14"	1	12"	12"	ALL 18GA. 304 S.S.	900	150
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

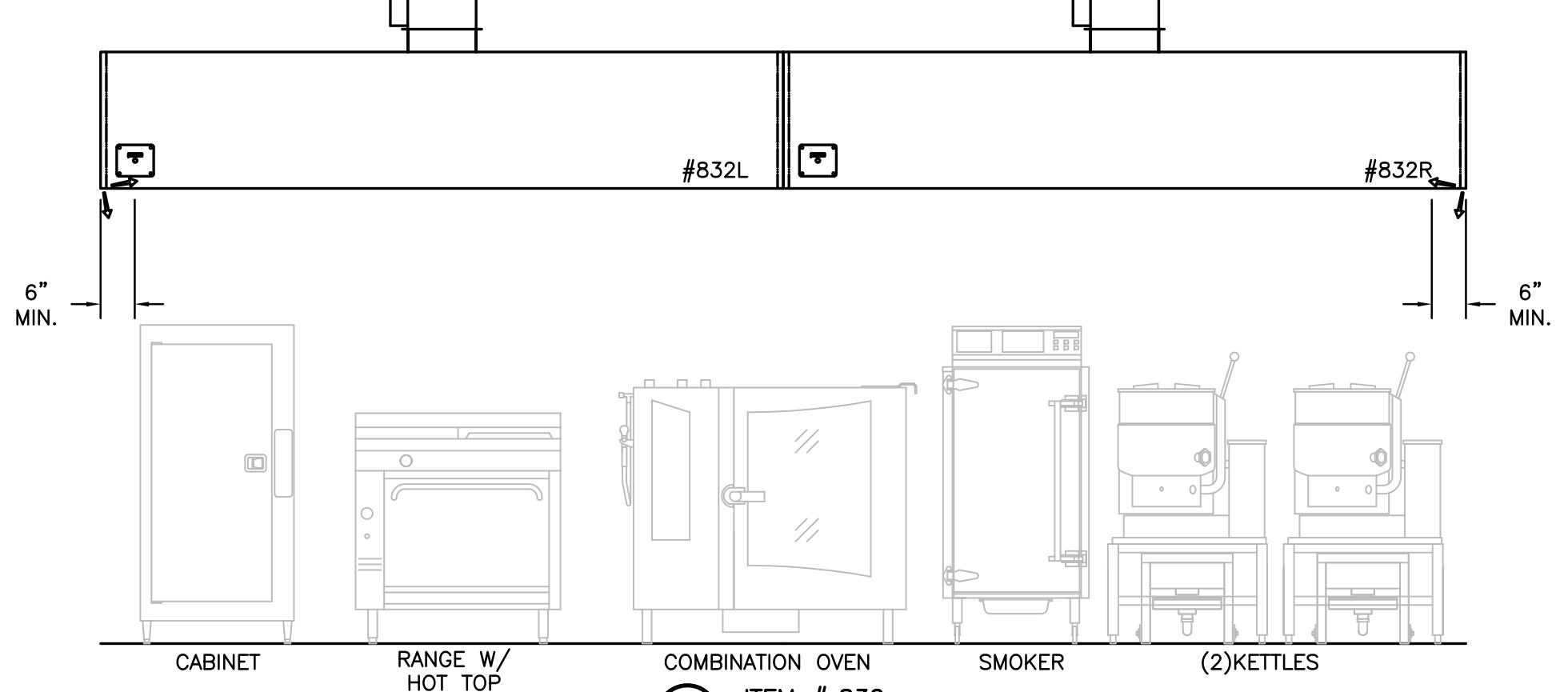
TOTAL EXH. CFM = 2854

TOTAL SUPPLY CFM = 2283

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



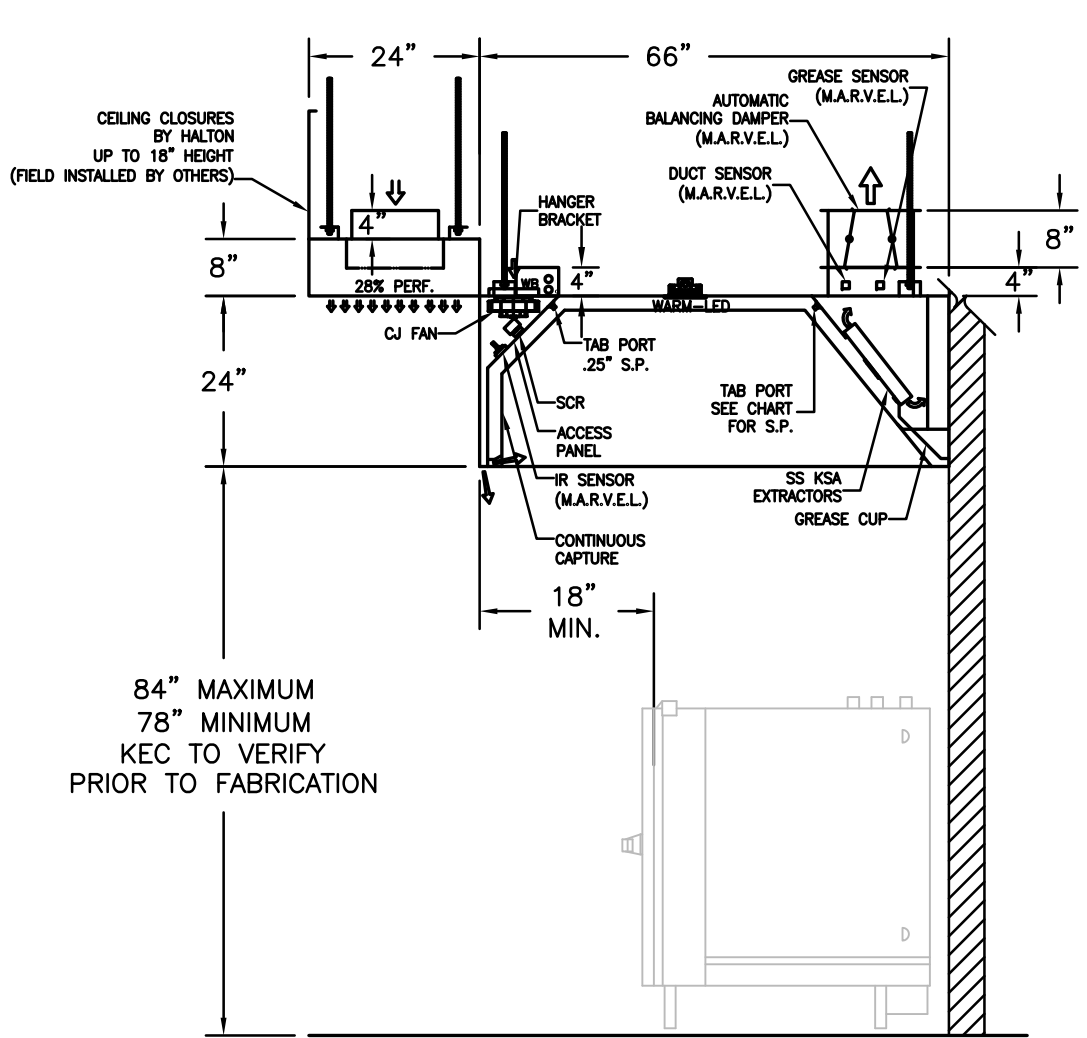
ITEM # 832  
PLAN VIEW



ITEM # 832  
ELEVATION VIEW

1ST FLR-800

**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH ENG.



ITEM # 832  
SECTION VIEW

- GENERAL SPECIFICATIONS**
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3085193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAIDEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

- INSTALLATION REQUIREMENTS**
- KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS**
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- ELECTRICAL CONTRACTOR'S REQUIREMENTS**
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

- ELECTRICAL EQUIPMENT REQUIREMENTS**
- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .47 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA.
  - CAPTURE JET FAN= .72 AMP EA.
  - \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*
  - \*\*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*

**CEILING HEIGHT NOTE**

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:

THIS DRAWING MUST BE SIGNED, SEALED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING INFORMATION BEFORE SIGNING:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

**NOTE TO APPROVED ENGINEERS:** EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

REVISION AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA)		HALTON CO. (USA)	
1021 BREVK PLACE		101 INDUSTRIAL DRIVE	
MISSISSAUGA, ON L4W 3R7		SCOTTSVILLE, KY 42164	
1-905-624-0501		1-270-237-5600	
REV.	REVISION DESCRIPTION	BY	DATE
1	REVISED ALL HOODS	WU	01.28.14
2	ADDED NOTE	WU	04.09.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4			
5			
6			
7			

PROJECT: JOLIET JUNIOR COLLEGE

LOCATION: JOLIET, IL

DRAWN BY: WU | DATE: 12.14.12

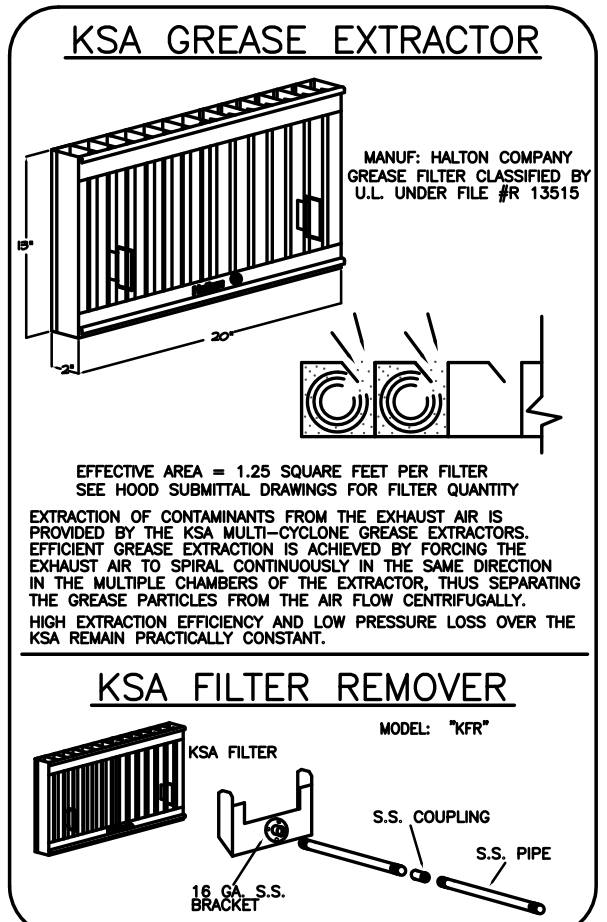
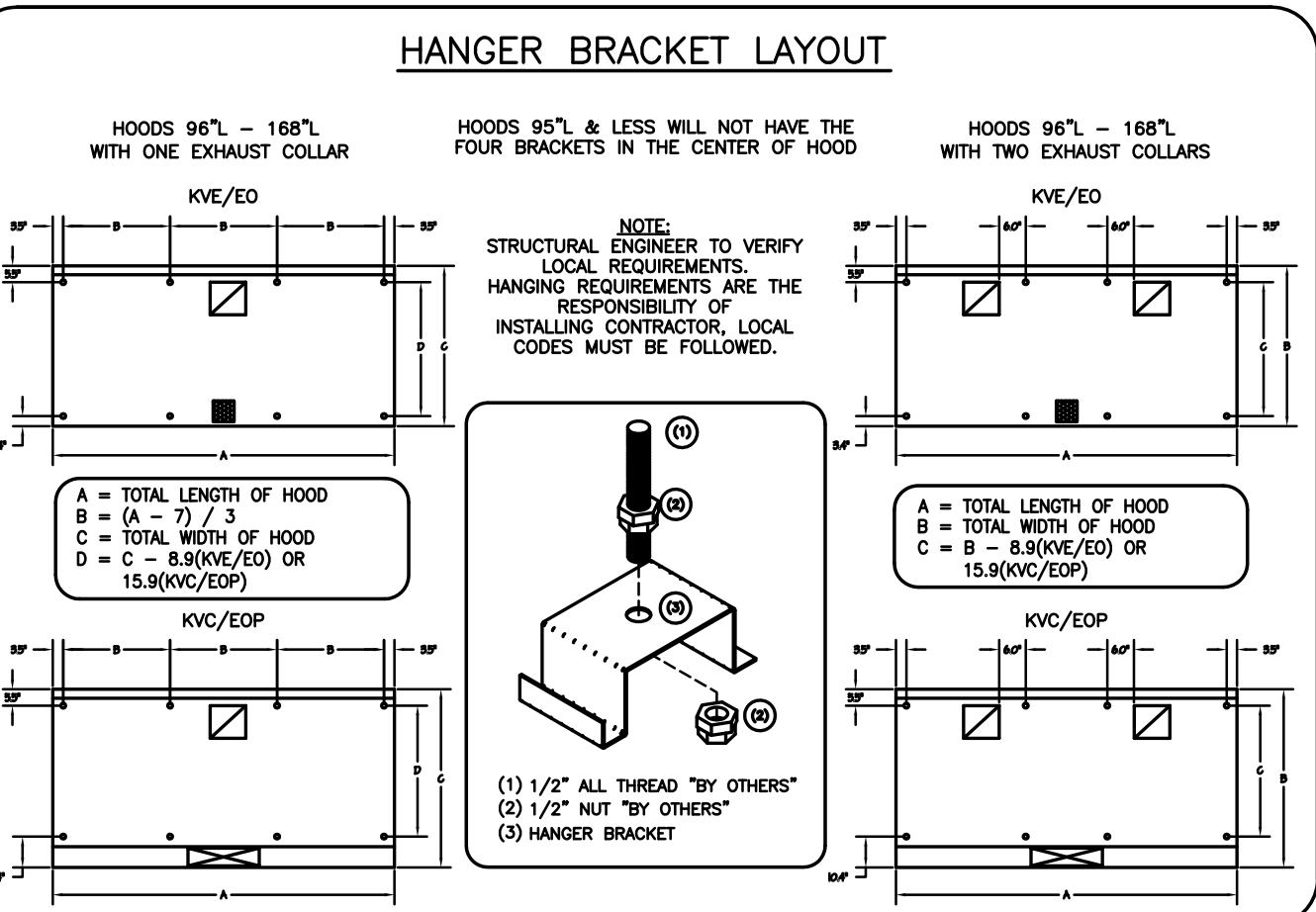
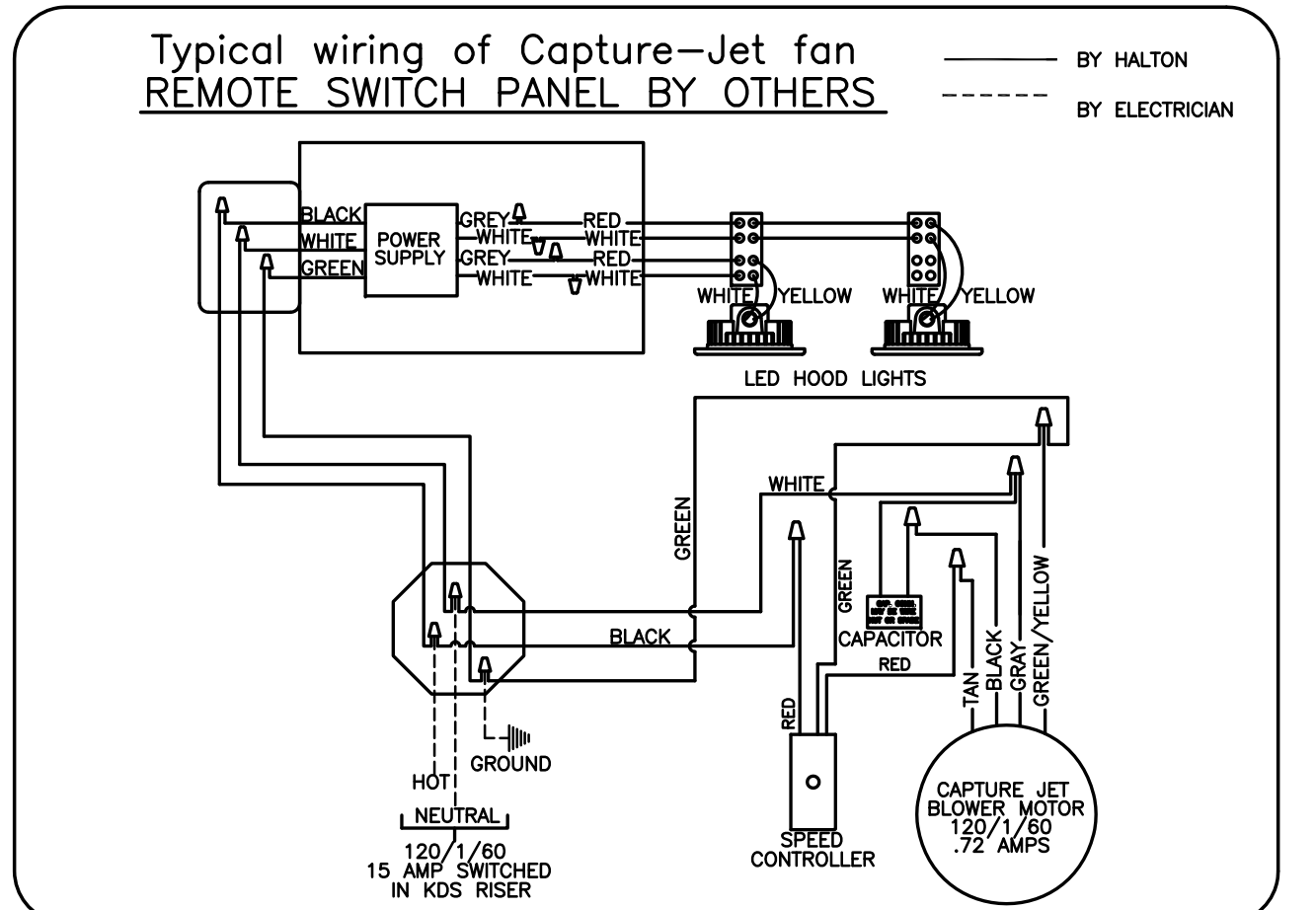
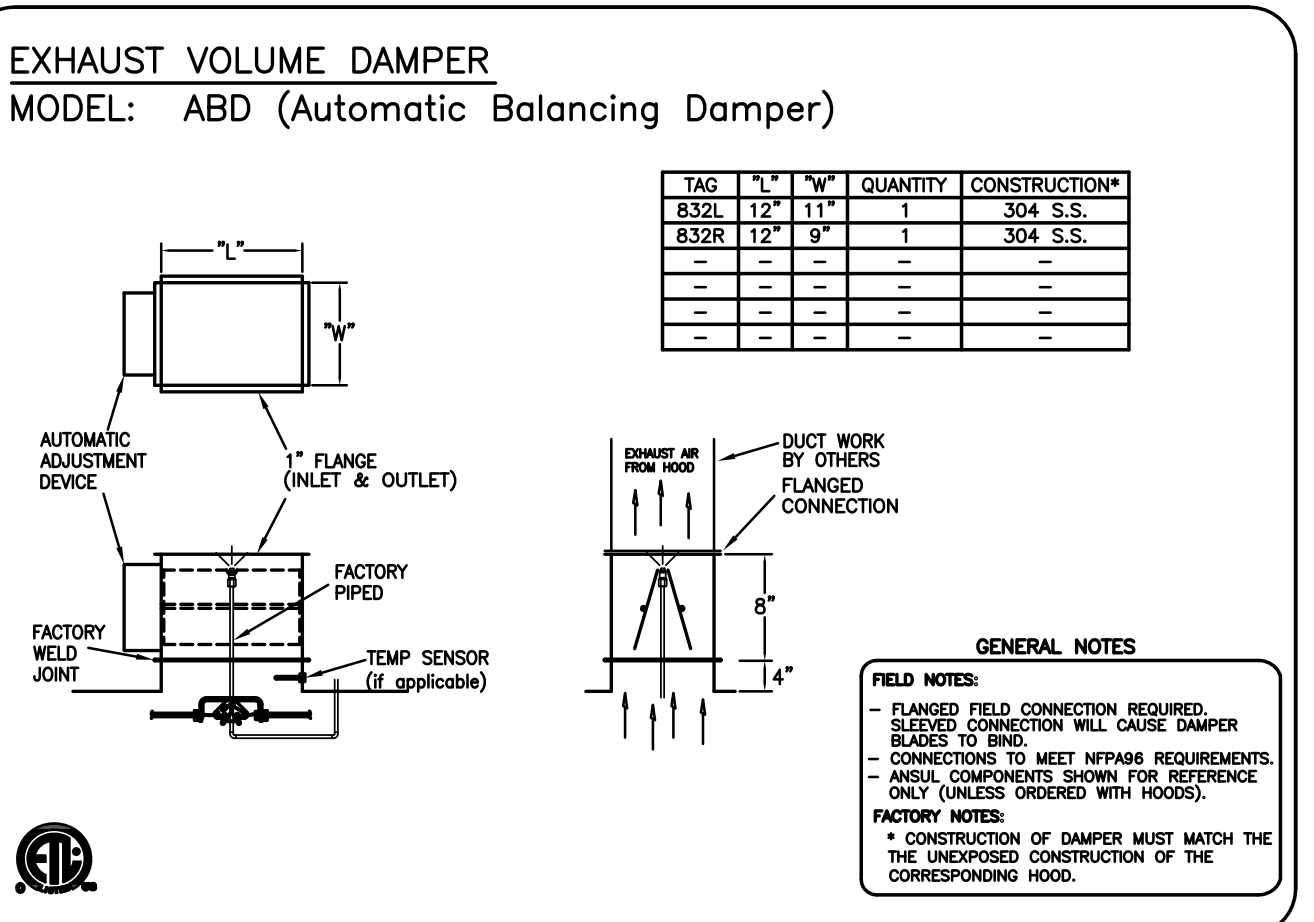
SCALE: NOT TO SCALE

CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS

DRAWING NO.: U12-715

REV. NO.: 3 | SHEET NO.: 3 of 6



**PERFORMANCE CRITERIA**

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT EXHAUST AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

MANUFACTURER MUST PROVIDE A WRITTEN GUARANTEE OF PERFORMANCE, ENSURING THE SPECIFYING ENGINEER THAT THE SYSTEM WILL PERFORM TO THE ENGINEER'S SATISFACTION WHEN INSTALLED AND BALANCED ACCORDING TO DESIGN AIR FLOWS AND RESULTS OF ASTM STANDARD F1704 TEST. (AS DETERMINED BY TAB PORTS AND PRESSURE VS. AIR FLOW CURVES). CONSULTANT RESERVES THE RIGHT TO REJECT ANY SYSTEM WHICH, WHEN INSTALLED, DOES NOT PROVIDE CAPTURE AND CONTAINMENT AT THE THRESHOLD FLOW RATE DETERMINED IN ASTM F1704. REJECTED SYSTEM MUST BE REPLACED WITH SPECIFIED SYSTEM, WITH ALL REPLACEMENT COSTS PAID BY MANUFACTURER OF REJECTED SYSTEM.

ANY CHANGES IN THE SPECIFIED SIZING OF POWER WIRING, FAN SIZE, HORSEPOWER REQUIREMENTS, OR GAS LINES MUST BE NOTIFIED TO THE CONSULTANT PRIOR TO THAT WHICH IS SPECIFIED IS THE RESPONSIBILITY OF THE ALTERNATE MANUFACTURER. ORDERING MUST BE COORDINATED BY THE HOOD MANUFACTURER AND CONTRACTORS INVOLVED.

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

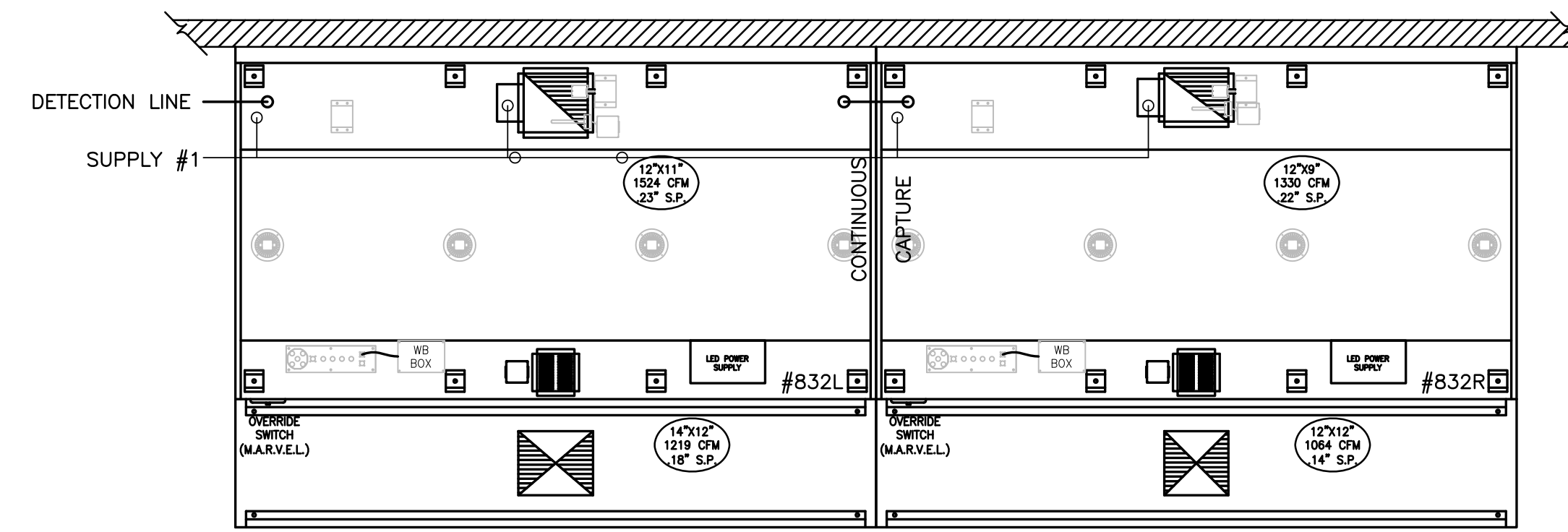
**A LA CARTE RESTAURANT**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #832**

CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE

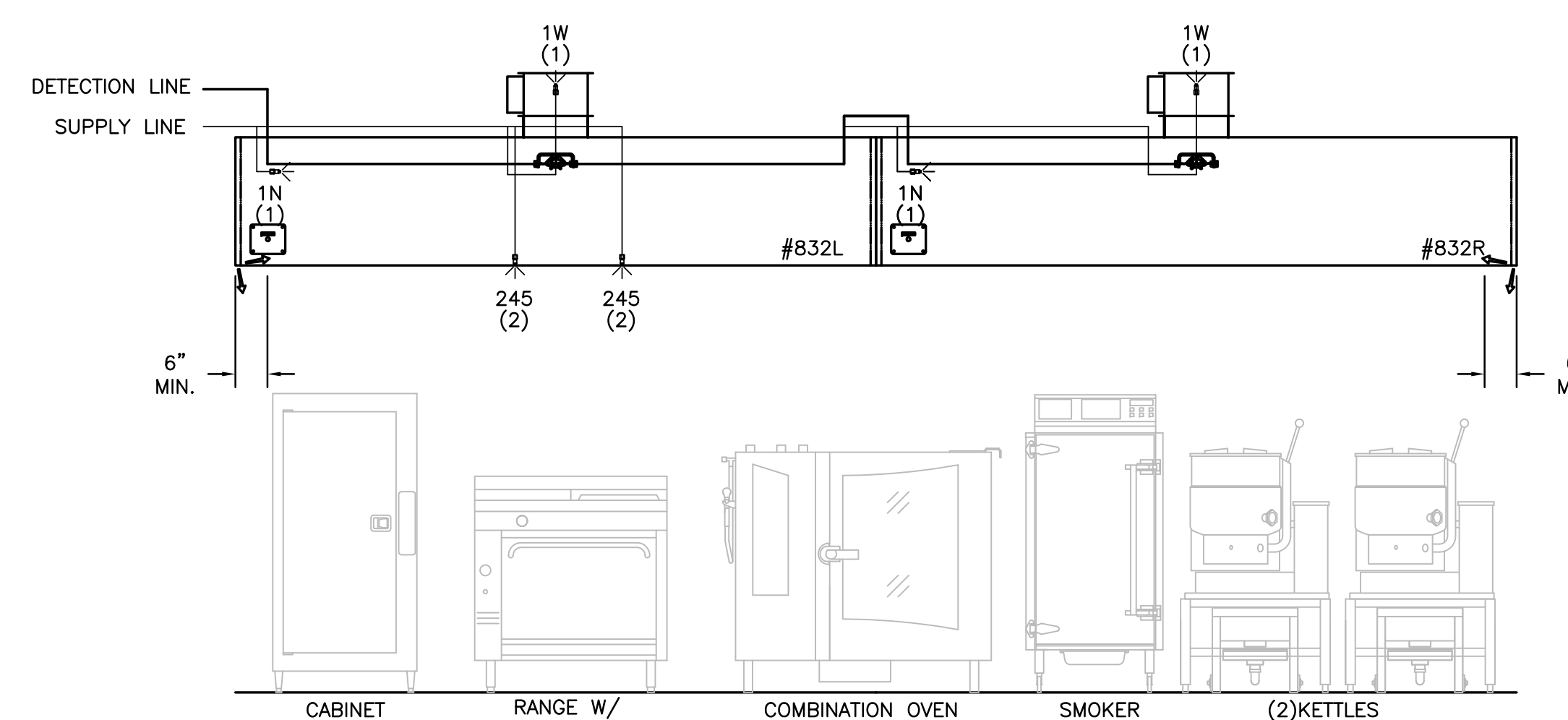
PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. FSE-108 OF SHEETS

# 1ST FLR-800

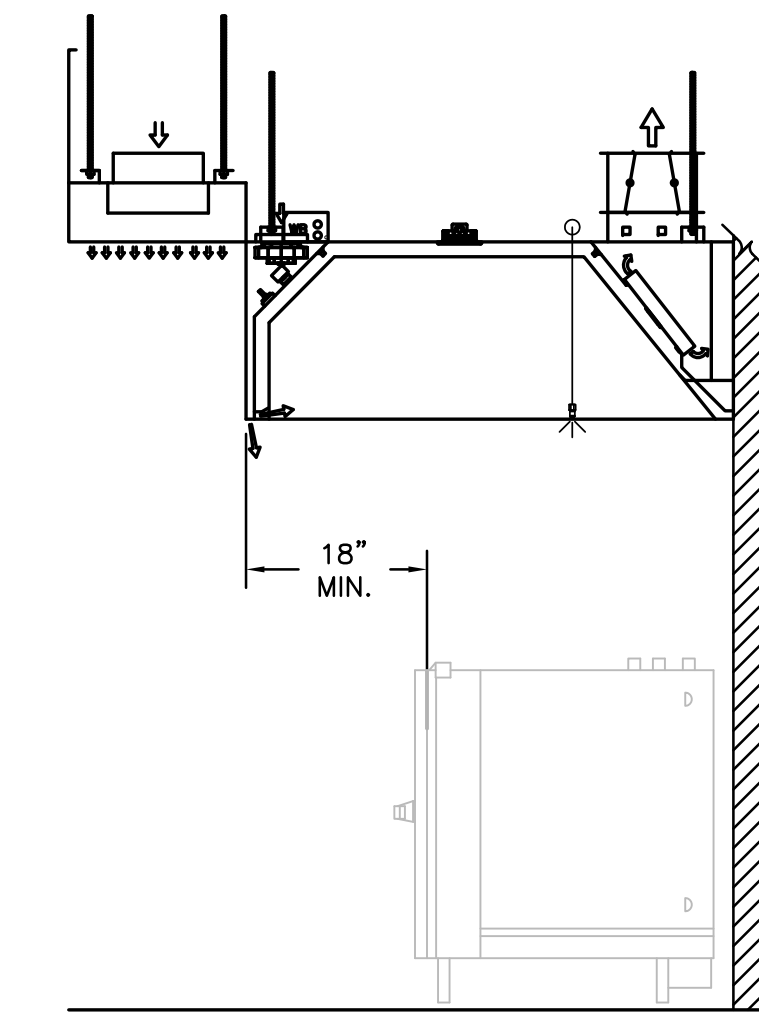
**RECOMMENDED PIPING**  
 FIRE SYSTEM TO BE FURNISHED AND INSTALLED  
 IN THE FIELD BY THE GC'S FIRE SYSTEM  
 INSTALLATION CONTRACTOR. THIS SHEET  
 CONTAINS HALTONS RECOMMENDED  
 PIPING DETAILS



1 ITEM # 832  
 PLAN VIEW



2 ITEM # 832  
 ELEVATION VIEW

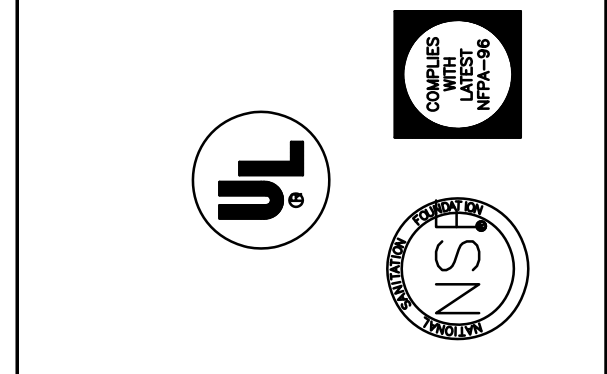


3 ITEM # 832  
 SECTION VIEW

- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8\"/>

**NOTE**  
 HOODS TO BE FURNISHED  
 BY USING AGENCY AND  
 BE INSTALLED BY GC.

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 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.  
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
**NOTE TO APPROVER:** COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVISE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301		HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	
REV.	DESCRIPTION	BY	DATE
1	REVISED ALL HOODS	WU	01.28.14
2	NO CHANGE	WU	04.09.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4			
5			
6			
7			

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.14.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-715
REV. NO.:	3
SHEET NO.:	4 of 6



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**K J W W** KJWW ENGINEERING  
 1100 WARRENVILLE ROAD, #400W  
 NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET  
 BIRMINGHAM, MI 48009  
 T: 248.644.0990

**A LA CARTE RESTAURANT**  
**ISSUED FOR CONSTRUCTION**  
**HALTON - PLANS and DETAILS #831 FIRE SYSTEM**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
 DATE DEC. 12, 2014  
 SHEET NO. **FSE-109**  
 OF SHEETS



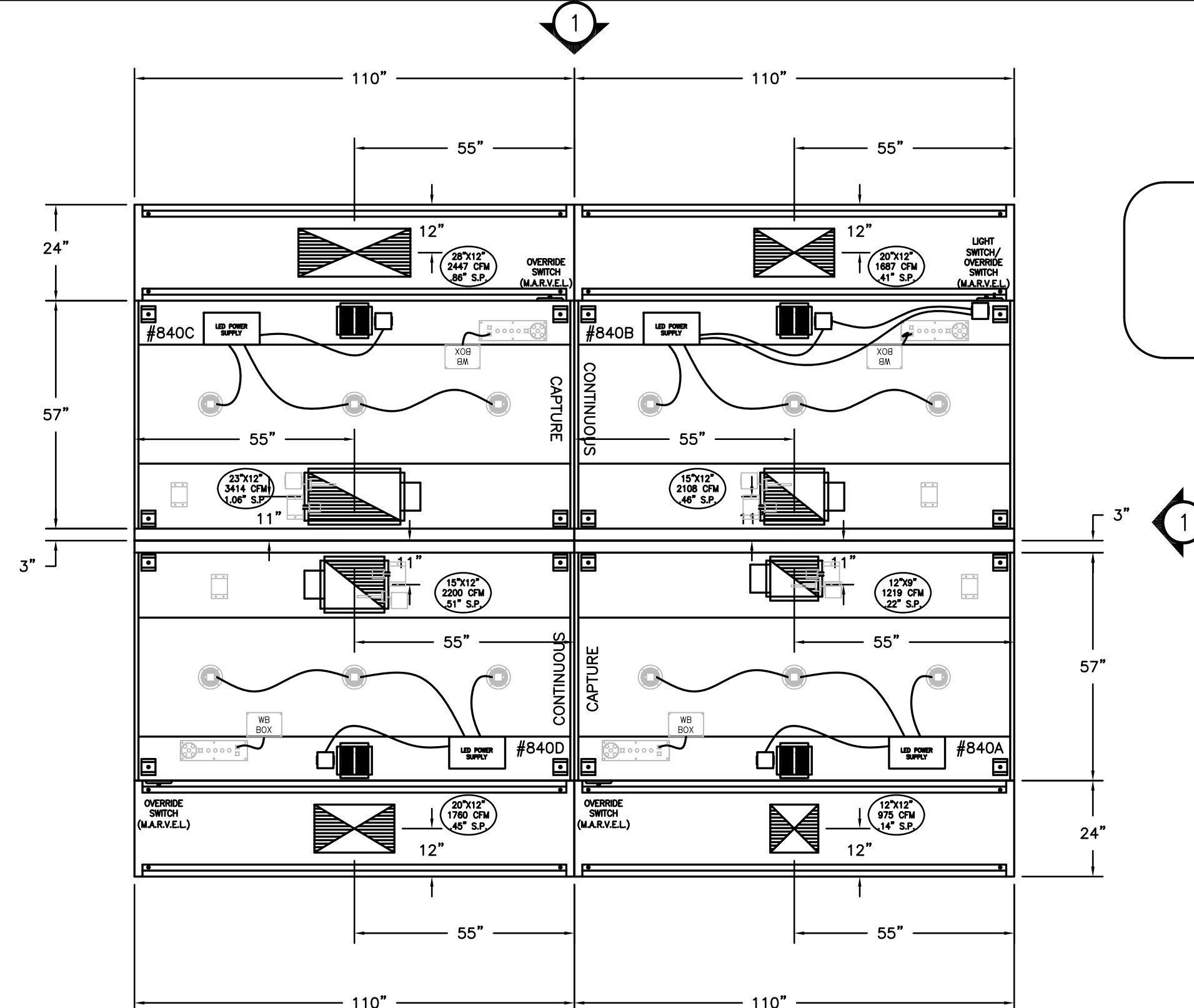
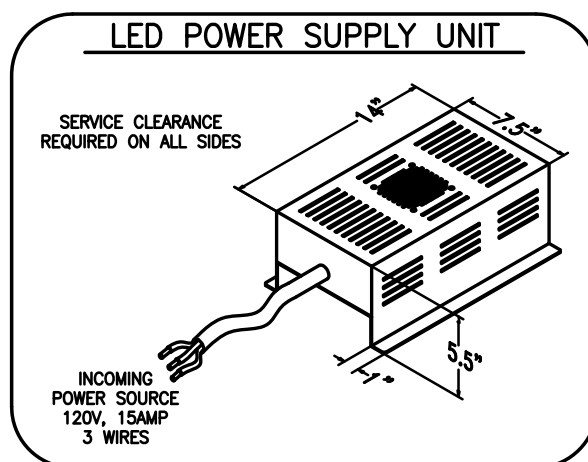
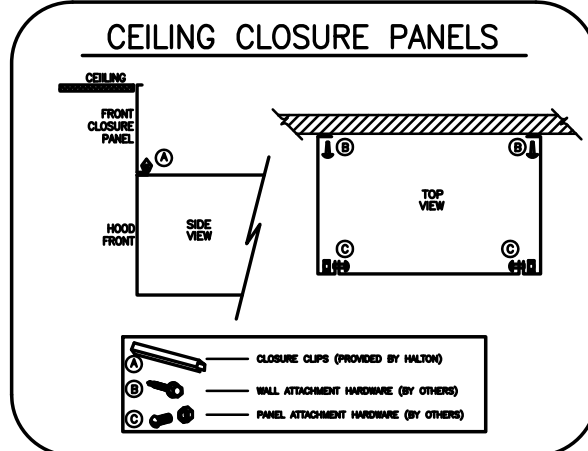
HOOD INFORMATION TABLE

HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS				GREASE EXTRACTOR		SUPPLY AIR REQUIREMENTS			HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)					
		EXHAUST CFM	T.A.B. PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	EXHAUST COLLAR	QTY.	SIZE	SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR								
					QTY.	LENGTH	WIDTH	L	H	QTY.	LENGTH	WIDTH						
840A	KVE	1219	.12"	.22"	1	12"	9"	5	20" 13"	KSA	975	.14"	1	12"	12"	ALL 18GA. 304 S.S.	779	138
840B	KVE	2108	.36"	.46"	1	15"	12"	5	20" 13"	KSA	1687	.41"	1	20"	12"	ALL 18GA. 304 S.S.	779	138
840C	KVE	3414	.94"	1.06"	1	23"	12"	5	20" 13"	KSA	2447	.86"	1	28"	12"	ALL 18GA. 304 S.S.	779	138
840D	KVE	2200	.39"	.51"	1	15"	12"	5	20" 13"	KSA	1760	.45"	1	20"	12"	ALL 18GA. 304 S.S.	779	138

TOTAL EXH. CFM = 8941

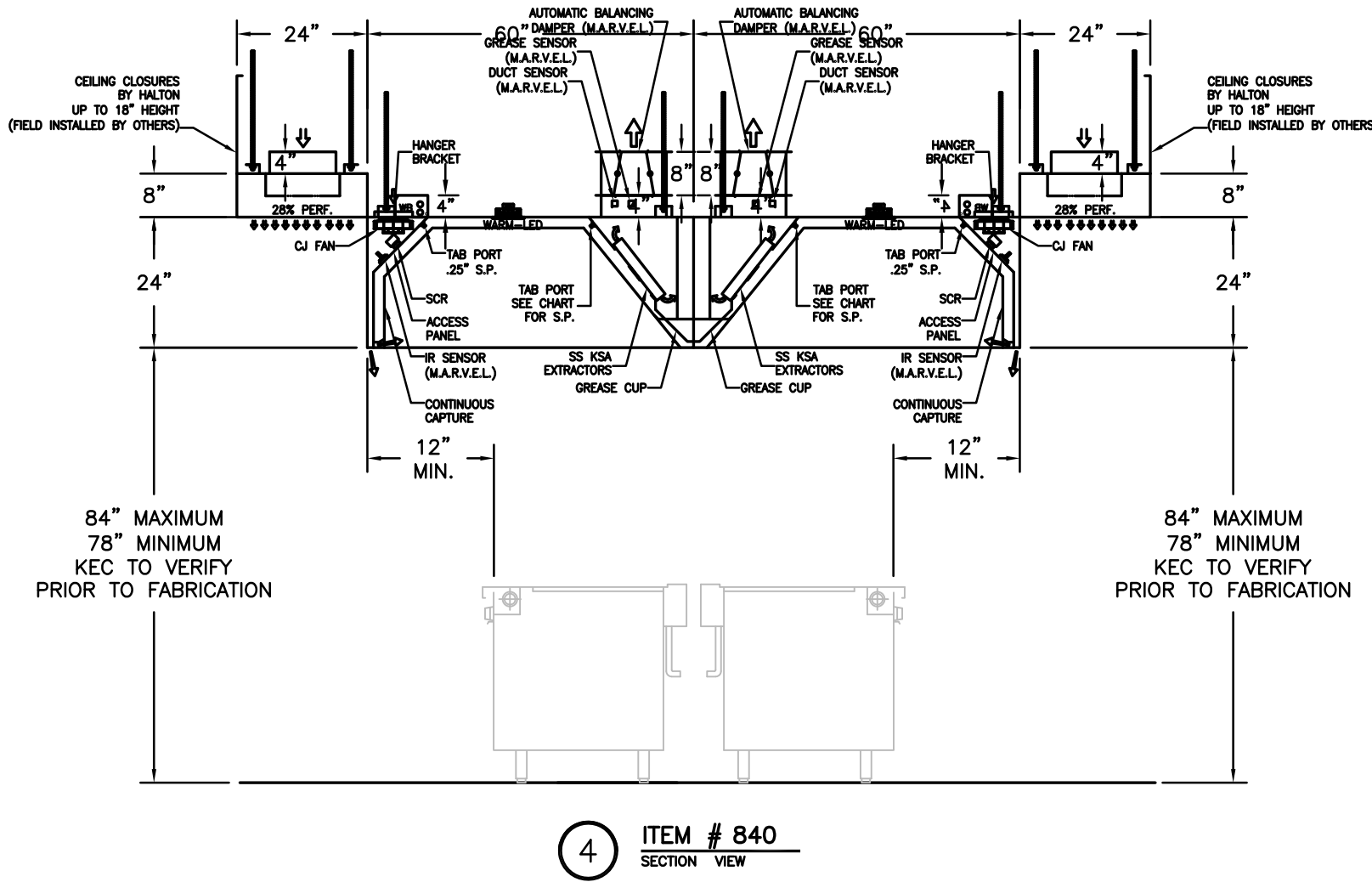
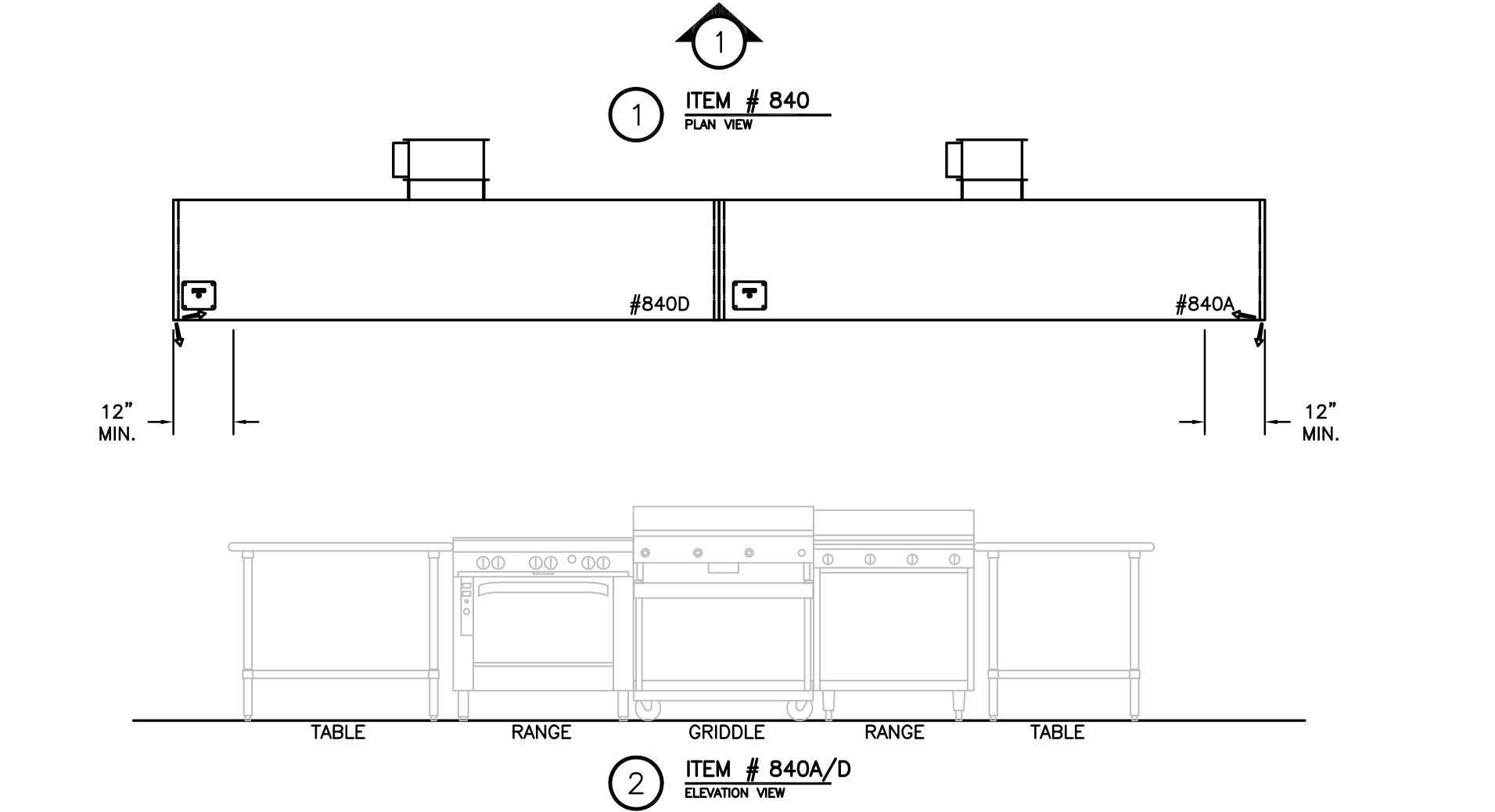
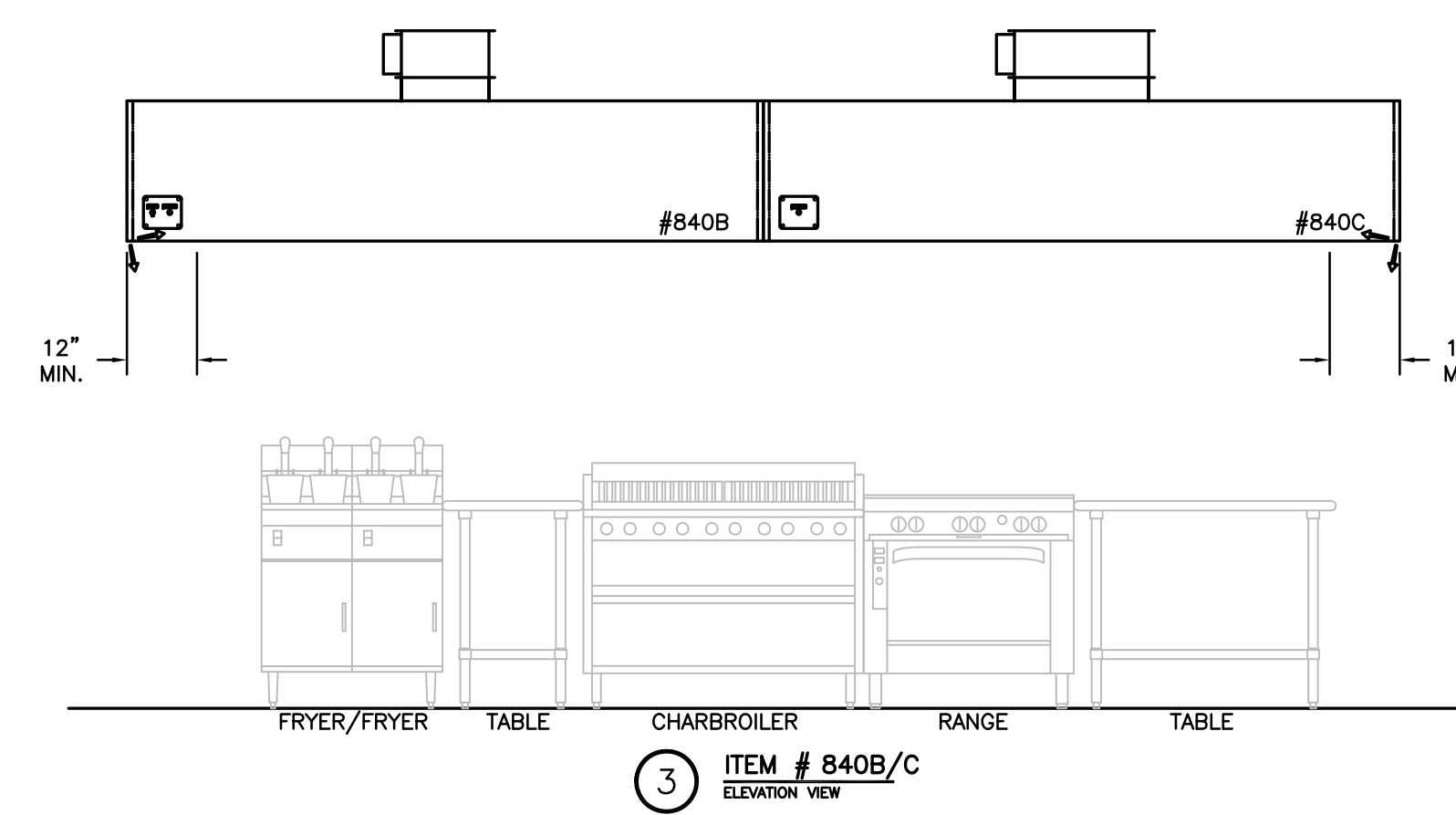
TOTAL SUPPLY CFM = 6869

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.



1ST FLR-800

**NOTE**  
MAKE UP PLENUMS TO BE POWDER COATED WHITE TO MATCH CEILING. COLOR CODE TBD BY MECH. ENG.



- GENERAL SPECIFICATIONS**
- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.
  - HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #3005193CLE-002
  - ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.
  - THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LAIDEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.
  - ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
  - CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.
  - FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

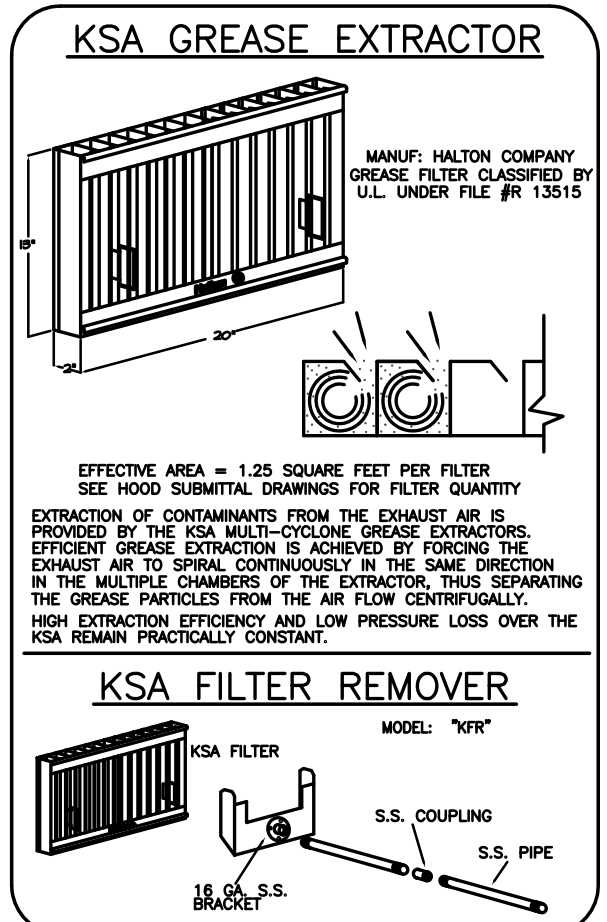
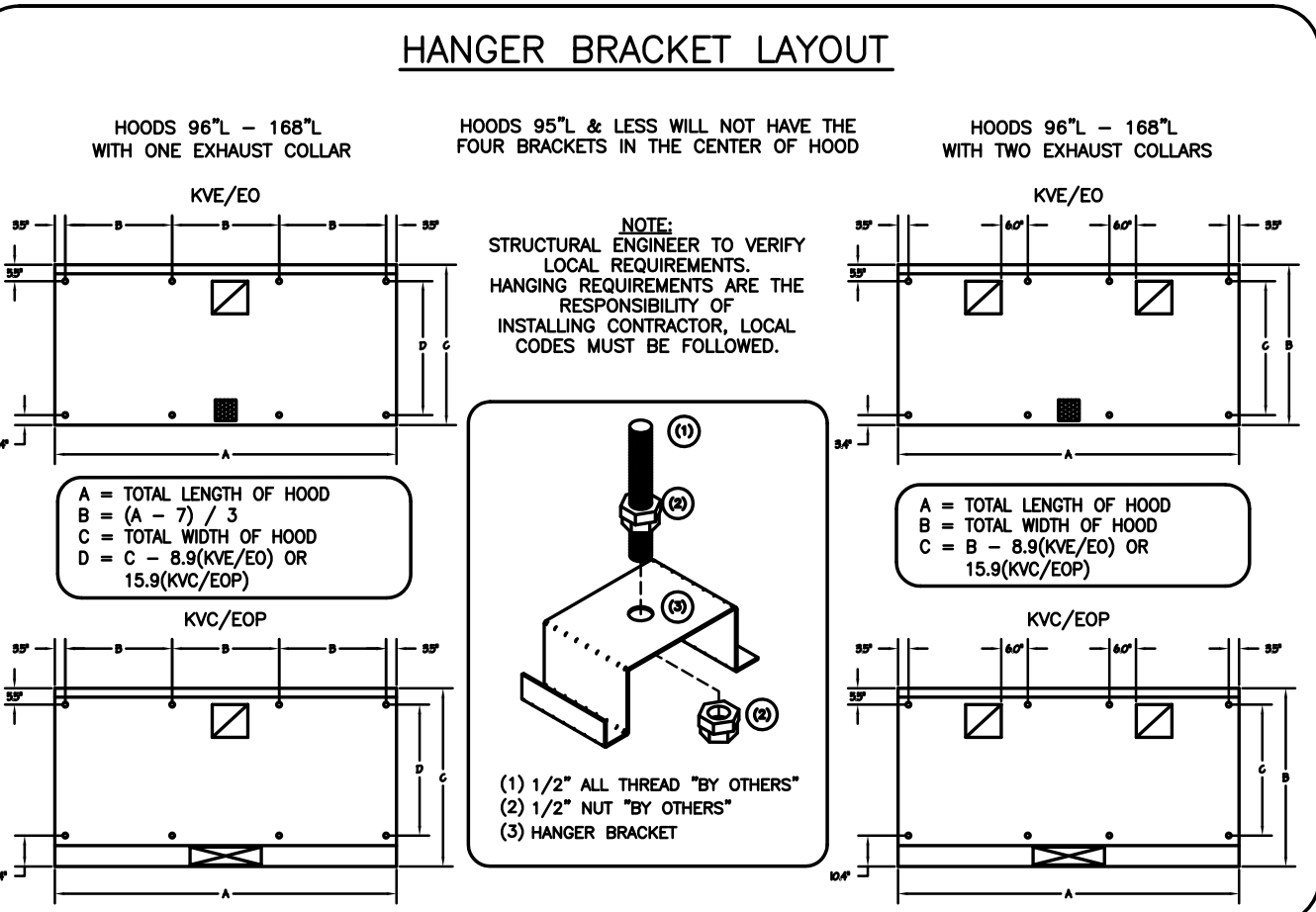
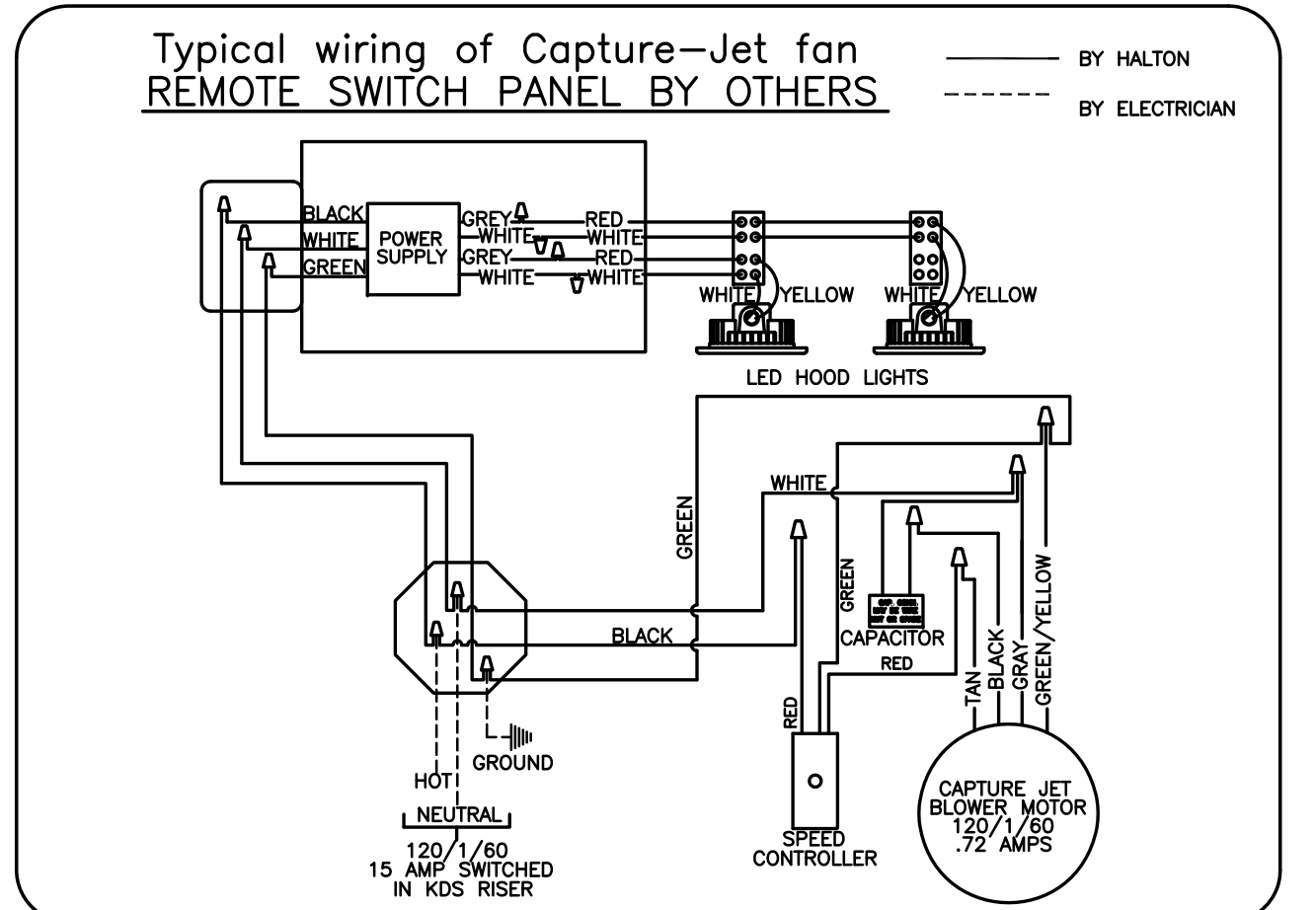
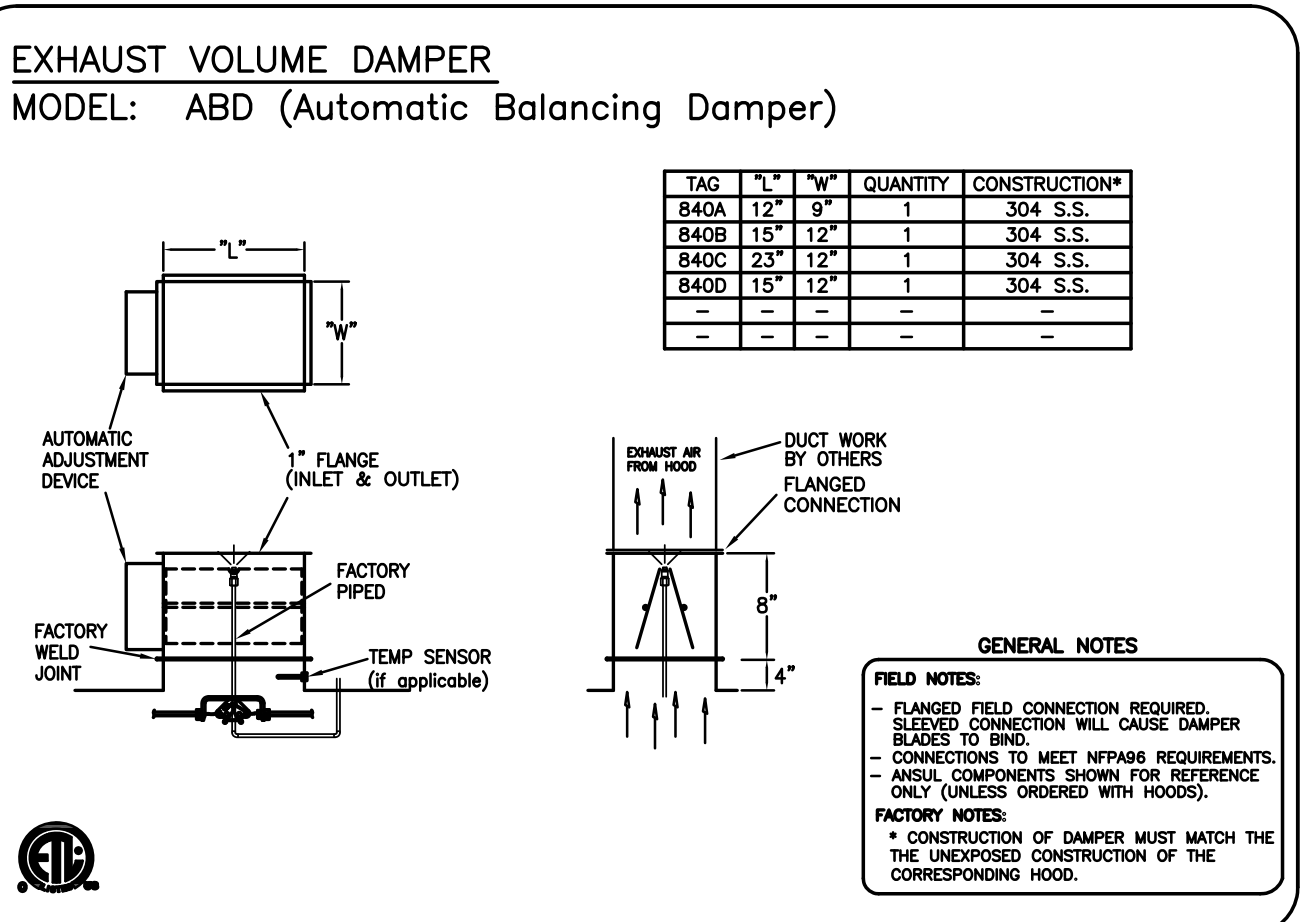
- INSTALLATION REQUIREMENTS**
- KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS**
- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.
  - THE K.E.C. MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.
  - IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.
- ELECTRICAL CONTRACTOR'S REQUIREMENTS**
- PROVIDE AND CONNECT ALL REQUIRED VOLTAGES, CONNECTORS, WIRING, CONDUIT, ETC., PER NEC AND ALL APPLICABLE LOCAL CODES.

- ELECTRICAL EQUIPMENT REQUIREMENTS**
- FLUORESCENT LIGHT FIXTURE: 40 WATT MAX BULB= .47 AMP EA.
  - RECESSED INCANDESCENT LIGHT FIXTURE: 150 WATT MAX BULB= 1.25 AMP EA.
  - GLOBE INCANDESCENT LIGHT FIXTURE: 100 WATT MAX BULB= .83 AMP EA.
  - LED LIGHT FIXTURES= .30 AMP EA.
  - CAPTURE JET FAN= .72 AMP EA.
  - \*\*ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP\*\*
  - \*\*LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS\*\*

**CEILING HEIGHT NOTE**

IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.:



**PERFORMANCE CRITERIA**

OTHER MANUFACTURERS WISHING TO OFFER AN ALTERNATE TO THE SPECIFIED MANUFACTURER MUST APPLY FOR PERMISSION TO DO SO IN WRITING FROM THE OFFICE OF THE SPECIFYING CONSULTANT. APPLICATION MUST BE RECEIVED BY THE CONSULTANT AT LEAST TEN WORKING DAYS PRIOR TO THE BID DATE. ANY ALTERNATE SYSTEM MUST MEET CONSTRUCTION AND PERFORMANCE REQUIREMENTS AND EFFICIENCIES AS OUTLINED IN THIS SPECIFICATION.

REQUESTS FOR APPROVAL MUST INCLUDE GREASE FILTRATION PERFORMANCE DATA (MICRON SIZE VS. EXTRACTION EFFICIENCY) AND MANUFACTURERS OWN EXHAUST AIR FLOW CALCULATIONS BASED ON THE CONNECTIVE HEAT LOAD OF COOKING EQUIPMENT BENEATH THE HOOD.

EFFICIENCY COMPARISON DATA TO BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASTM STANDARD F1704 AND INCLUDE RESULTS FOR THE REQUIRED CAPTURE AND CONTAINMENT AIR FLOW IN ACCORDANCE WITH THE TEST METHOD TO DETERMINE THE THRESHOLD OF CAPTURE AND CONTAINMENT. DATA MUST INCLUDE THERMAL IMAGING RESULTS VALIDATING CONFORMANCE TO ASTM F1704 AND SUPPLY AIR TEMPERATURE REQUIREMENT OF 74°F.

MAKE UP AIR WILL BE CALCULATED SO THAT THE SAME AMOUNT OF AIR WILL BE TAKEN FROM THE ZONE AS IS REQUIRED BY THE SPECIFIED SYSTEM. AN ADDITIONAL LOAD CANNOT BE PLACED ON THE KITCHEN HVAC SYSTEM.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. REVISIONS MUST BE FOR:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

**NOTE TO APPROVER:** ANY CHANGES TO THE DRAWING MUST BE NOTIFIED BY ANY OF THESE POSITIONS. A RECALCULATION OF EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION:  WITH CHANGES AS NOTED

REVISION AND RESUBMIT:  WITH NO CHANGES

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

REV.	REVISION DESCRIPTION	BY	DATE
1	REVISED ALL HOODS	WU	01.28.14
2	ADDED NOTE	WU	04.09.14
3	REMOVED LIGHT SWITCH FROM HOOD	WU	06.03.14
4			
5			
6			
7			

FACTORY BELOW: HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301

FACTORY BELOW: HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42164 1-270-237-5600

PROJECT: JOLIET JUNIOR COLLEGE

LOCATION: JOLIET, IL

DATE: 12.14.12

DRAWN BY: WU

SCALE: NOT TO SCALE

CONSULTANT: E.F. WHITNEY

DRAWING TITLE: HOOD DETAILS

DRAWING NO.: U12-715

REV. NO.: 3

SHEET NO.: 1 of 6

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN: XXX OFF.

PREPARED: XXX OFF.

TRACED: XXX APPROVED: XXX

CHECKED: XXX APPROVED: EFW

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

**dkA** DEMONICA KEMPER ARCHITECTS

125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000

**KJW** K.J.W. ENGINEERING

1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320

**E.F. WHITNEY, INC.**

568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990

**A LA CARTE RESTAURANT**

**ISSUED FOR CONSTRUCTION**

**HALTON - PLANS and DETAILS #840**

**CITY CENTER CAMPUS**

**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023

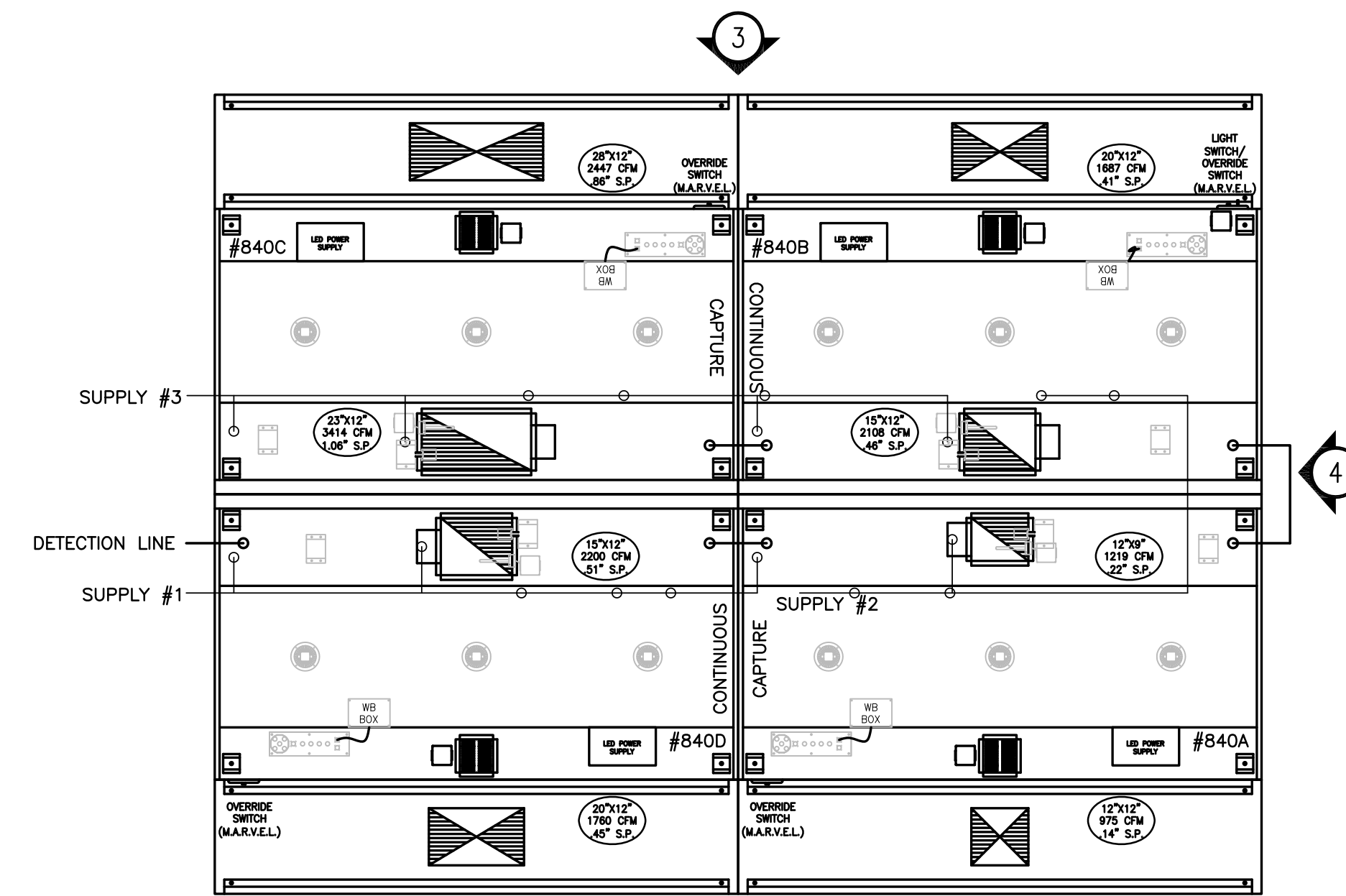
DATE DEC. 12, 2014

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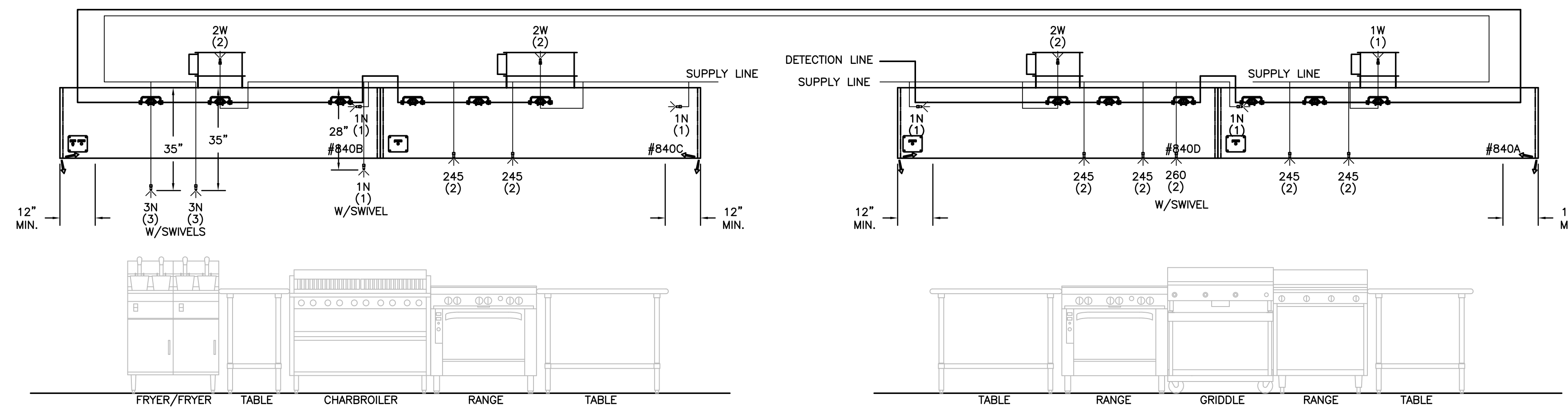
OF SHEETS

1ST FLR-800

RECOMMENDED PIPING  
FIRE SYSTEM TO BE FURNISHED AND INSTALLED  
IN THE FIELD BY THE GC'S FIRE SYSTEM  
INSTALLATION CONTRACTOR. THIS SHEET  
CONTAINS HALTONS RECOMMENDED  
PIPING DETAILS

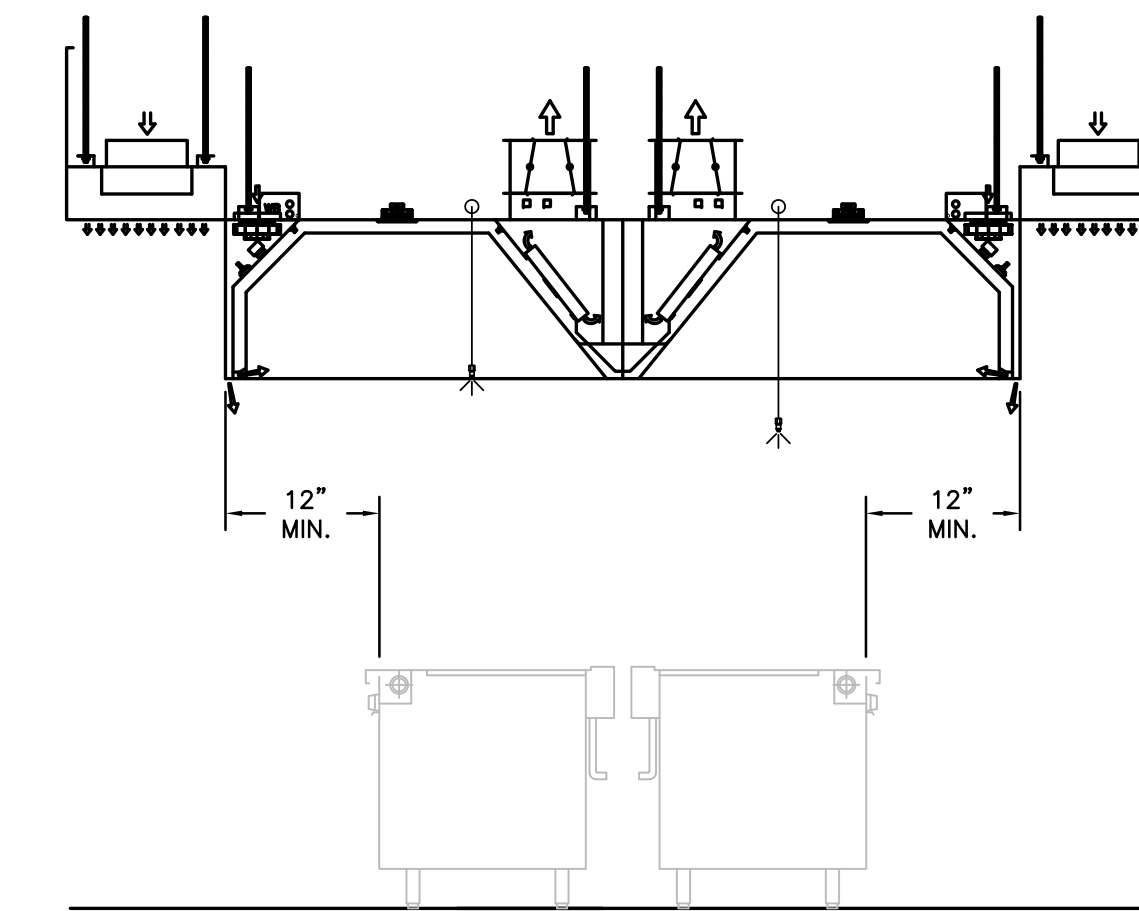


1 ITEM # 840  
PLAN VIEW



3 ITEM # 840B/C  
ELEVATION VIEW

2 ITEM # 840A/D  
ELEVATION VIEW



4 ITEM # 840  
SECTION VIEW

- 1) ANSUL R-102 FIRE SYSTEM
- 2) PRE-PIPE ONLY
- 3) 3/8" BLACK IRON PIPING W/3/8" S.S. APPLIANCE DROPS

NOTE  
HOODS TO BE FURNISHED  
BY USING AGENCY AND  
BE INSTALLED BY GC.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.  
FURNISHING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.  
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS  
AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
NOTE TO APPROVER: THIS EQUIPMENT SUCH AS INCREASED ENERGY HOODS OR EQUIPMENT  
POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE  
CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVISE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED  
APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM		HALTON CO. (USA)		BY	DATE
HALTON CO. (CANADA)		101 INDUSTRIAL DRIVE		WU	01.28.14
1021 BREVIK PLACE		SCOTTSVILLE, KY 42164		WU	04.09.14
MISSISSAUGA, ON L4W 3R7		1-270-237-5600		WU	06.03.14
1-905-624-0301		REVISION DESCRIPTION			
REV	1	REVISED ALL HOODS			
	2	NO CHANGE			
	3	REMOVED LIGHT SWITCH FROM HOOD			
	4				
	5				
	6				
	7				

PROJECT:	JOLIET JUNIOR COLLEGE
LOCATION:	JOLIET, IL
DRAWN BY:	WU
DATE:	12.14.12
SCALE:	NOT TO SCALE
CONSULTANT:	E.F. WHITNEY
DRAWING TITLE:	FIRE SYSTEM DETAILS
DRAWING No.:	U12-715
REV. NO.:	3
SHEET NO.:	2 of 6

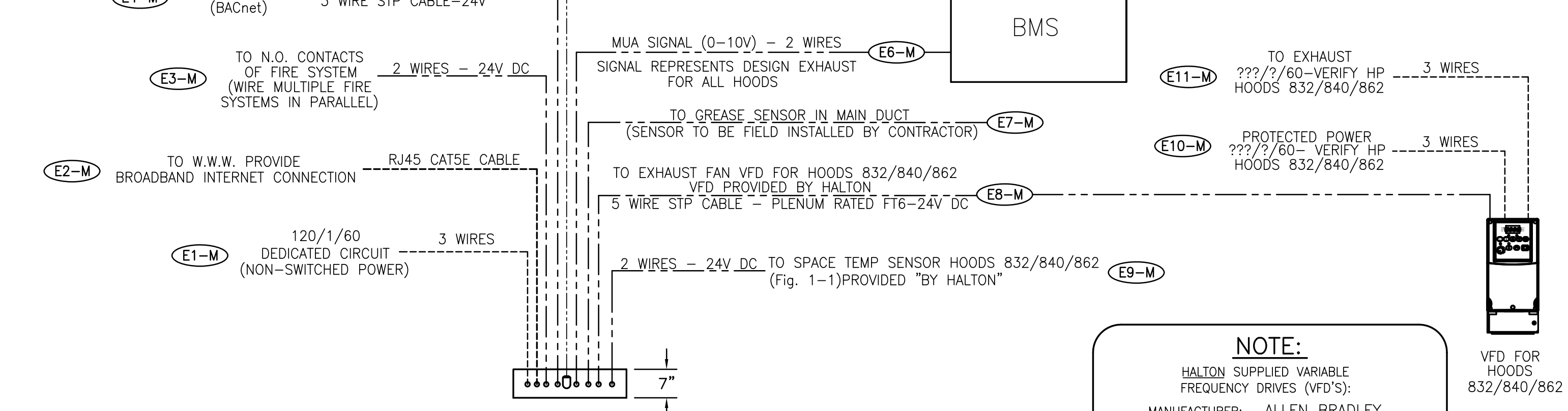
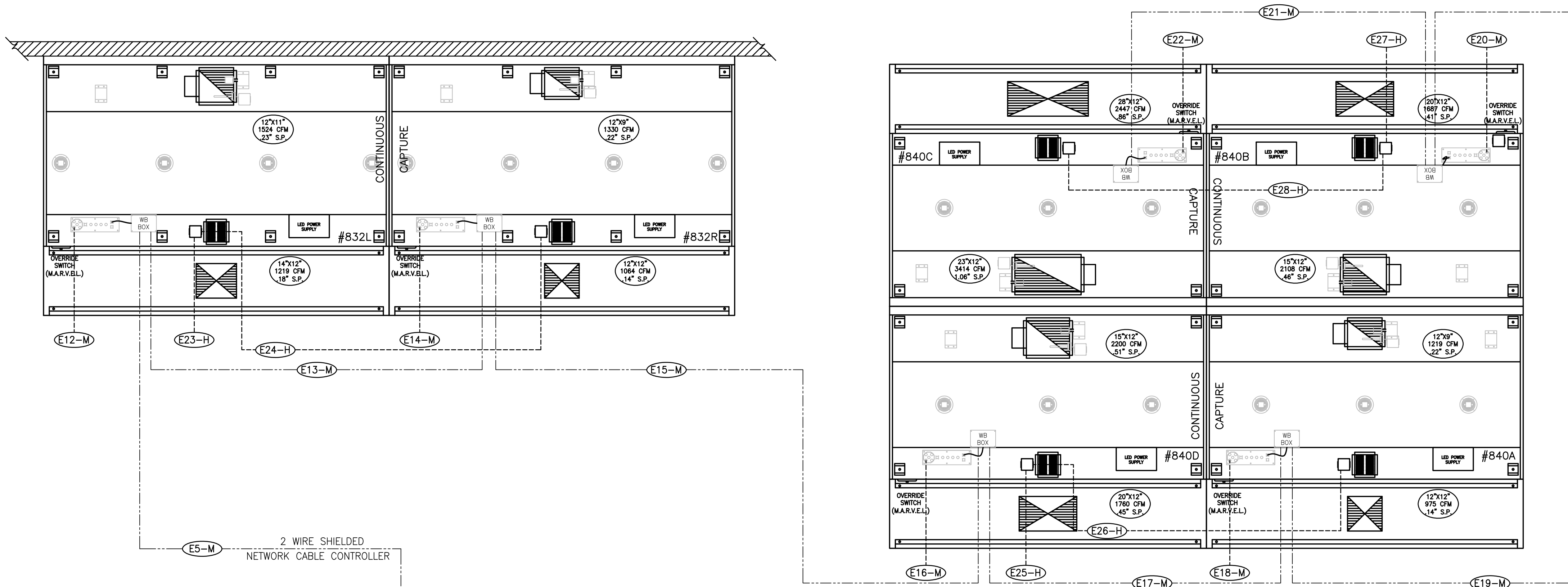
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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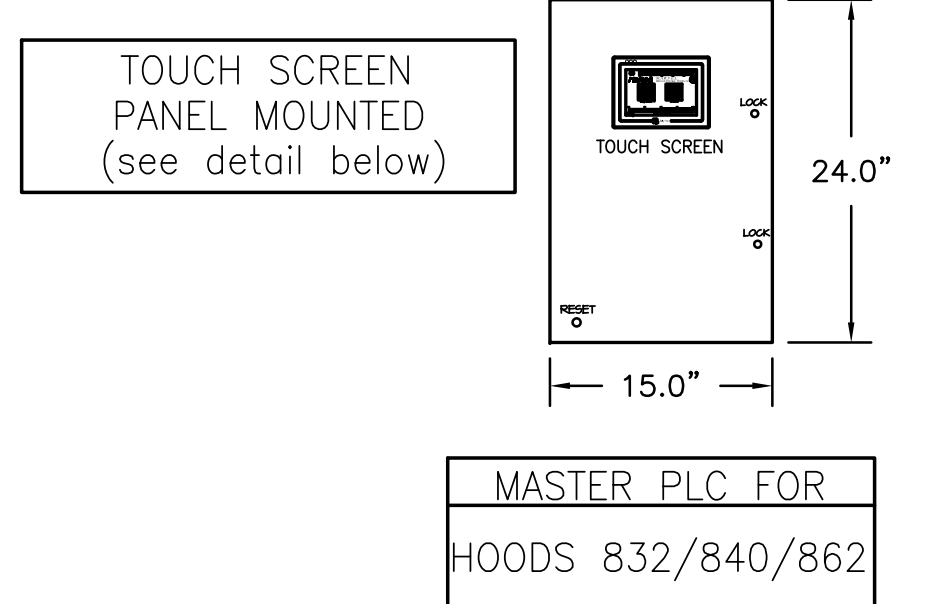
<b>A LA CARTE RESTAURANT</b> <b>ISSUED FOR CONSTRUCTION</b> <b>HALTON - PLANS and DETAILS #841 FIRE SYSTEM</b>		PROJECT NO. CDB 810-048-023
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>		DATE DEC. 12, 2014
<b>FSE-111</b> OF SHEETS		SHEET NO.: 2 of 6





**GREASE SENSOR LOCATION MATRIX**

GREASE SENSOR #	LOCATION
1	MAIN DUCT
2	832L
3	832R
4	840A
5	840B
6	840C
7	840D
8	--
9	--
10	--



**1ST FLR-800**

**FAN CONFIGURATION DATA FOR M.A.R.V.E.L.**

Exhaust Data:

EF Item #: \_\_\_\_\_ Voltage/Phase/Hz: \_\_\_\_\_

EF HP: \_\_\_\_\_

Hood Item #'s connected to this fan: \_\_\_\_\_

EF Item #: \_\_\_\_\_ Voltage/Phase/Hz: \_\_\_\_\_

EF HP: \_\_\_\_\_

Hood Item #'s connected to this fan: \_\_\_\_\_

EF Item #: \_\_\_\_\_ Voltage/Phase/Hz: \_\_\_\_\_

EF HP: \_\_\_\_\_

Hood Item #'s connected to this fan: \_\_\_\_\_

EF Item #: \_\_\_\_\_ Voltage/Phase/Hz: \_\_\_\_\_

EF HP: \_\_\_\_\_

Hood Item #'s connected to this fan: \_\_\_\_\_

Make-Up-Air-Data:

Quantity of MUA 'Zones': \_\_\_\_\_

Hood Item #'s located in Zone 1: \_\_\_\_\_

Hood Item #'s located in Zone 2: \_\_\_\_\_

NOTE: Above information must be completed in full prior to project being released for production. If more than four exhaust fans of two MUA zones are being used, please provide this data as well.

**NOTE**  
HOODS TO BE FURNISHED BY USING AGENCY AND BE INSTALLED BY GC.

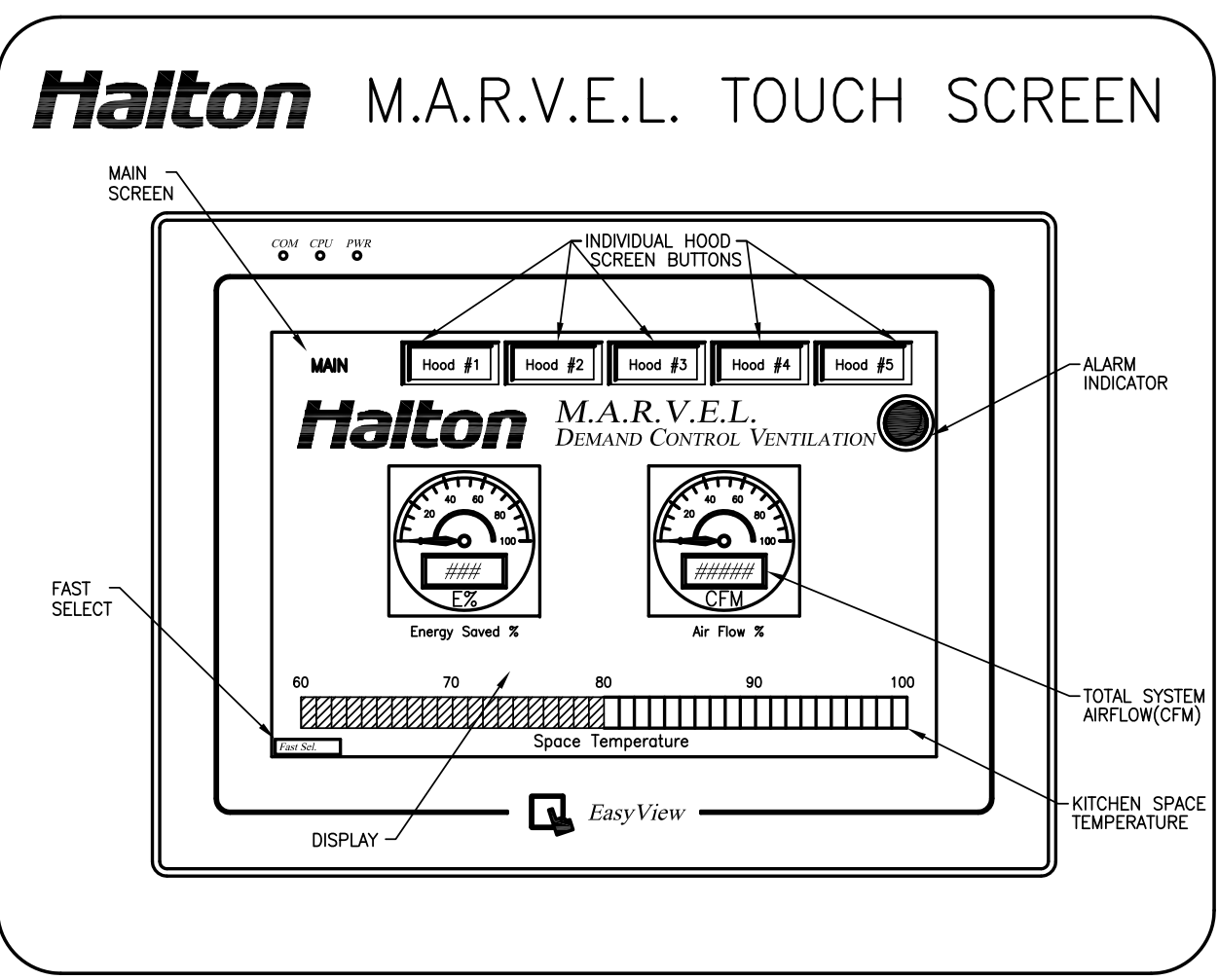
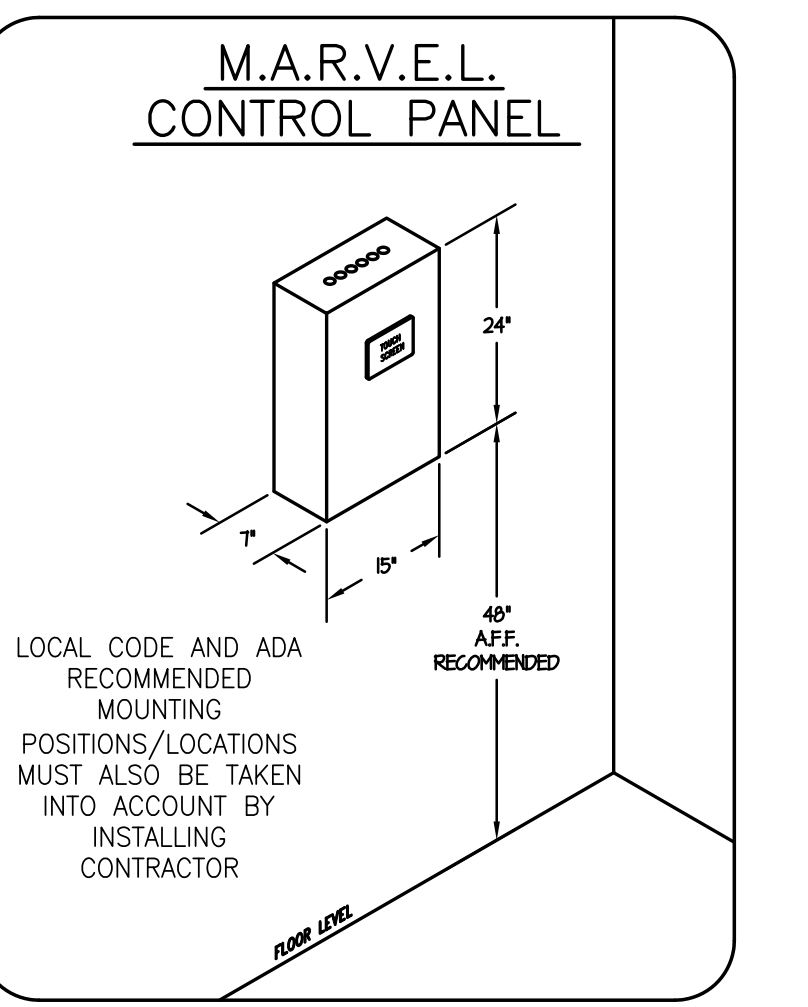
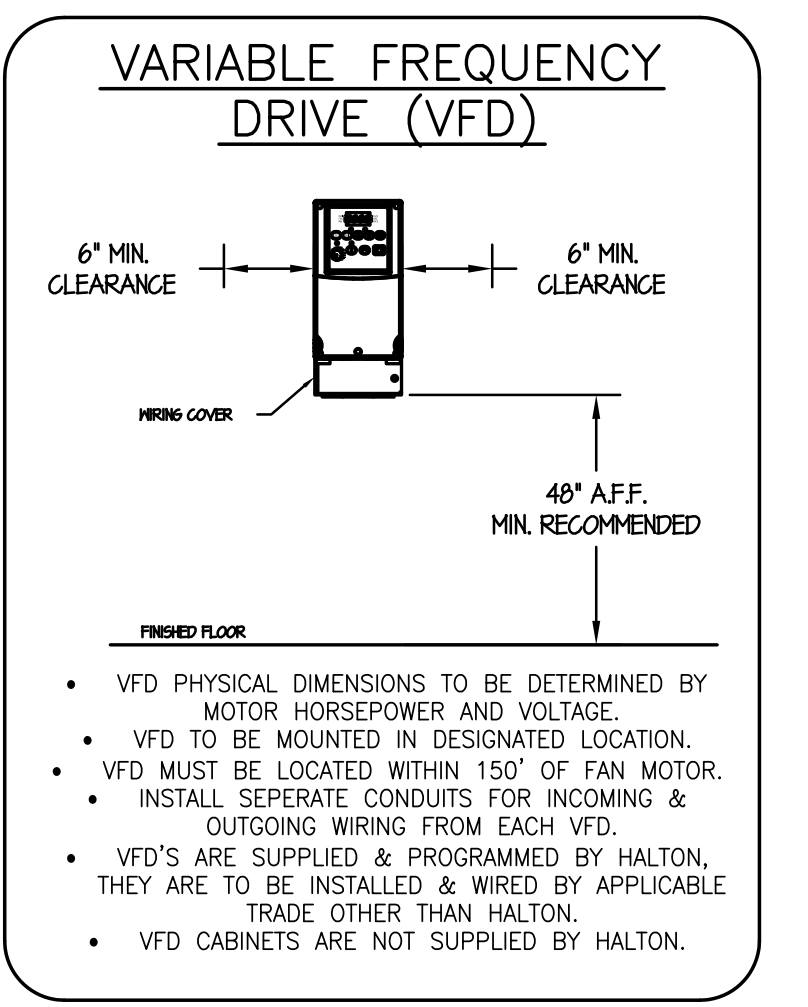
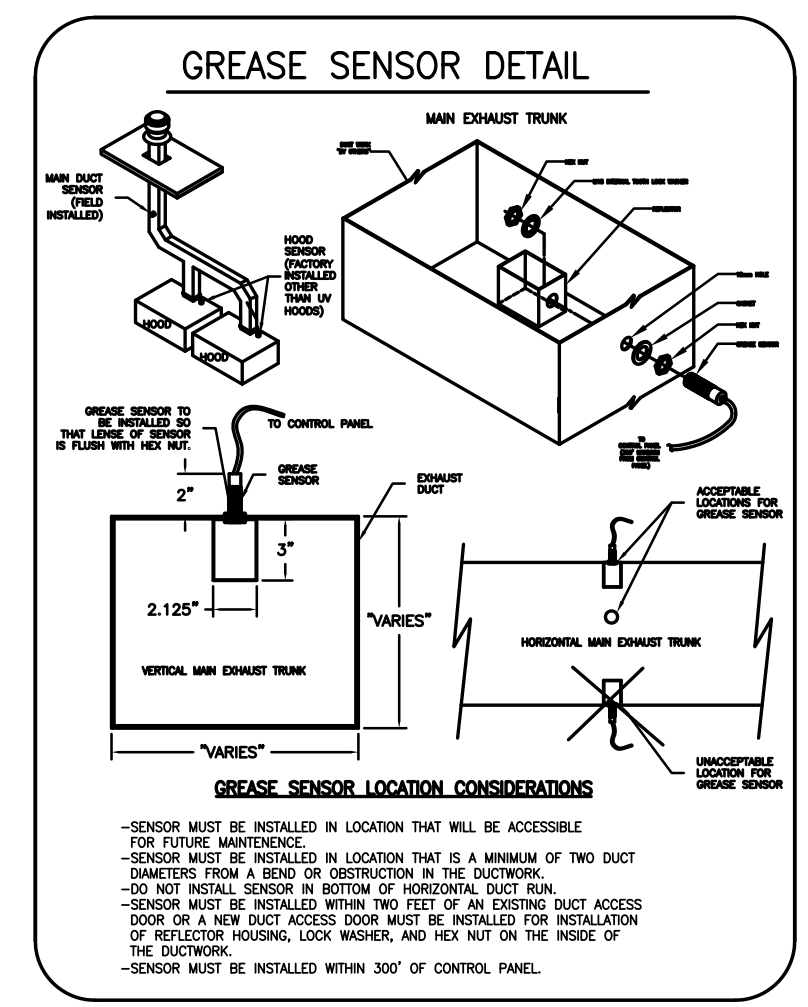
**NOTES:**  
ALL FIELD WIRING AND CONNECTION POINTS ARE SUBJECT TO CHANGE DUE TO ELECTRICAL COMPONENTS UPDATE OR OBSOLETE. HALTON WILL NOT BE LIABLE FOR ANY CHANGE ORDERS BASED ON DRAWINGS CREATED ONE OR MORE YEARS PRIOR TO PRODUCTION. WHEN RELEASED AN UPDATED SET OF ELECTRICAL DIAGRAMS(S) WILL BE SUPPLIED.

**M.A.R.V.E.L. SCOPE OF WORK**

- RESPONSIBILITY TO BE SELECTED BY GENERAL CONTRACTOR
- DEFINITIONS FOR REFERENCE:**
- M.A.R.V.E.L. I SYSTEMS = 1 EXHAUST FAN SERVING 1 KITCHEN HOOD
  - M.A.R.V.E.L. II SYSTEMS = 1 EXHAUST FAN SERVING MULTIPLE KITCHEN HOODS
  - VFD = VARIABLE FREQUENCY DRIVES
- CONNECTION LOCATIONS WILL VARY PER SYSTEM, REFER TO HALTON M.A.R.V.E.L. DIAGRAMS FOR SPECIFICS
1. APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE M.A.R.V.E.L. CONTROL PANEL. LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN SAME SPACE AS THE KITCHEN HOODS BEING SERVED BY PANEL. (M.A.R.V.E.L. I HOOD SYSTEMS WILL NOT HAVE SUCH PANEL)
  2. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT M.A.R.V.E.L. CONTROL PANEL
  3. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL RJ45 CAT5E CABLE CONNECTION AT M.A.R.V.E.L. CONTROL PANEL FOR M.A.R.V.E.L. I SYSTEMS OR AT KITCHEN HOOD FOR M.A.R.V.E.L. I SYSTEMS FOR I.P. ADDRESS.
  4. APPLICABLE CONTRACTOR TO INSTALL SPACE TEMP SENSOR (SUPPLIED BY HALTON) IN SAME SPACE AS KITCHEN HOOD SYSTEM AND 48"-54" A.F.F. NEAREST MAIN T-DUCT
  5. APPLICABLE CONTRACTOR SHALL SUPPLY AND RUN 2 WIRE 24V DC CONNECTION FROM SPACE TEMP SENSOR TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR TO KITCHEN HOOD (M.A.R.V.E.L. I)
  6. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE 24V DC WIRING FROM ANSL FIRE SYSTEM EITHER TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR TO KITCHEN HOOD (M.A.R.V.E.L. I)
  7. APPLICABLE CONTRACTOR SHALL CONNECT 2 WIRE COMMUNICATION CABLES (SUPPLIED BY HALTON) FROM HOOD TO HOOD AND TO PANEL AS SHOWN IN HALTON M.A.R.V.E.L. DIAGRAM
  8. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE MUA SIGNAL (0-10V) FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO BMS OR DDC
  9. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 5 WIRE STP PLENUM RATED CABLE FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. I) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO EXHAUST FAN VFD(S) (VFD'S AND CABINET SUPPLIED BY HALTON UNLESS OTHERWISE NOTED)
  10. APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE VFD(S). LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN 150 FEET MAX DISTANCE FROM EXHAUST FAN(S).
  11. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FEED FROM CIRCUIT BREAKER(S) TO VFD(S). APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FROM VFD(S) TO EXHAUST / MUA (IF APPLICABLE) MOTORS. ALL TO BE RAN IN SEPARATE CONDUIT.
  12. APPLICABLE CONTRACTOR SHALL INSTALL GREASE SENSOR(S) IN MAIN EXHAUST TRUNK, AND WIRE THE SENSOR BACK TO THE DESIGNATED LOCATION.
  13. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT EACH KITCHEN HOOD. (IF HOODS ARE LV, A SECOND 115V DEDICATED CIRCUIT IS REQUIRED.)
  14. INSTALLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING ADEQUATE ACCESS TO ALL COMPONENTS LOCATED ABOVE HOOD.
  15. HALTON REPRESENTATIVE TO PERFORM FINAL FIELD COMMISSIONING ONCE ALL RESPONSIBILITIES ARE COMPLETED ABOVE.

- NOTES:**  
ALL WIRING AND CABLEING TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS STATED OTHERWISE
- NOTES:**  
ALL FAN MOTORS MUST BE COMPATIBLE WITH VARIABLE FREQUENCY DRIVES (VFD'S). MOTORS THAT ARE 1 HP AND ABOVE MUST BE CONNECTED TO THREE PHASE POWER.
- NOTES:**  
ALL VARIABLE FREQUENCY DRIVES (VFD'S) MUST BE INSTALLED WITHIN 150' OF THE EXHAUST FAN.

(FIG 1-1)



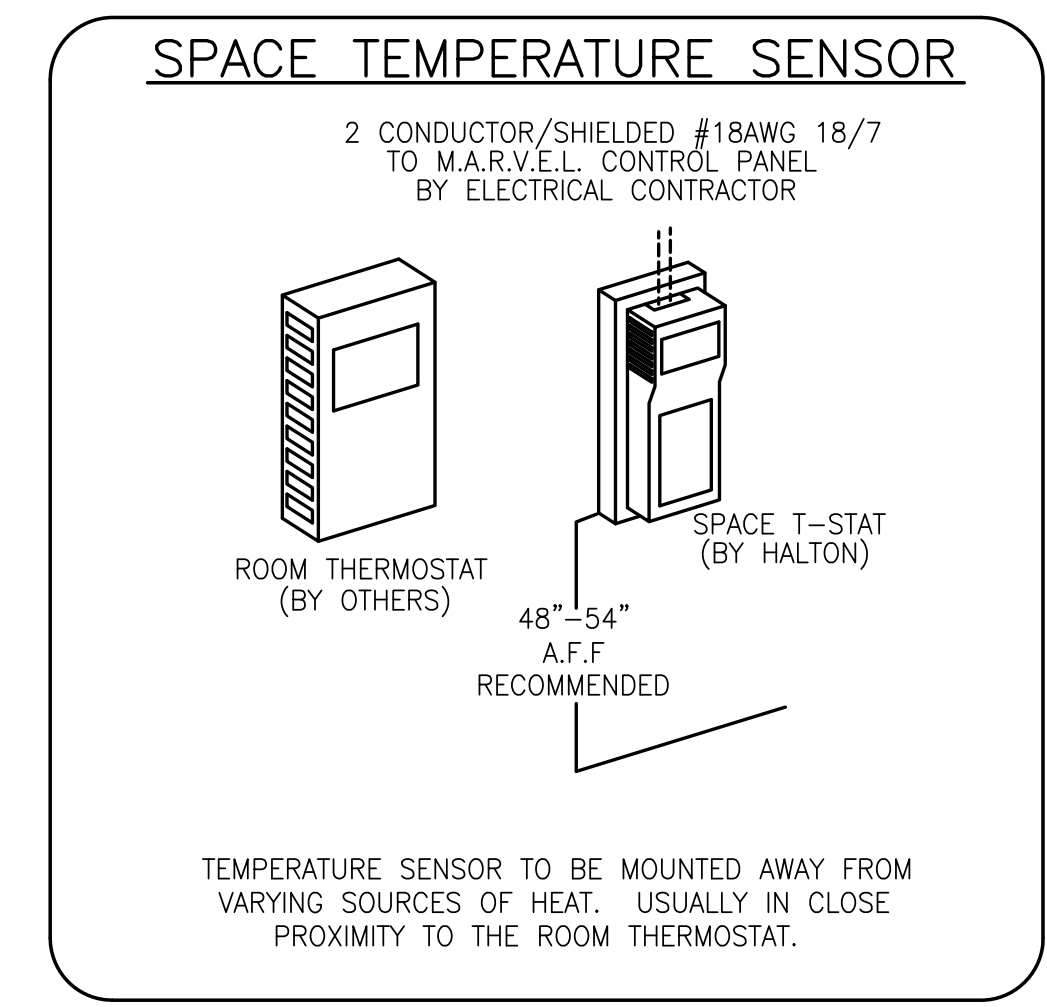
**M.A.R.V.E.L. SYSTEM**

**M.A.R.V.E.L. EQUIPMENT CONNECTED LOADS**

M.A.R.V.E.L. CONTROL PANEL = 10 AMPS EA.  
M.A.R.V.E.L. PLC AT EACH HOOD SECTION = 4 AMPS EA.

**NOTES:**

- FIELD WIRING (BY E.C.) - 120V - 12AWG MIN - 10AWG MAX.
- FIELD WIRING (BY E.C.) - 24V - 22AWG MIN - 16AWG MAX.
- SHIELDED NETWORK CABLES - PROVIDED BY HALTON FIELD INSTALLED BY OTHERS



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)  
1021 BREWIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, KY 42164  
1-270-237-5600

REV.	DATE	DESCRIPTION
1	01.28.14	INCLUDED MARVEL SHEETS
2	04.09.14	REMOVED HOOD 862
3	06.03.14	REMOVED LIGHT SWITCHES FROM HOODS
4		
5		
6		
7		

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WJ DATE: 01.28.14  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

DRAWING NO.: U12-715  
REV. NO.: 3 SHEET NO.: 5 of 6

**Halton**

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

**REVISIONS**

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K. J. WHITNEY ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

**A LA CARTE RESTAURANT**  
**ISSUED FOR CONSTRUCTION**

**M.A.R.V.E.L. SYSTEM DETAILS #832**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. FSE-112 OF SHEETS



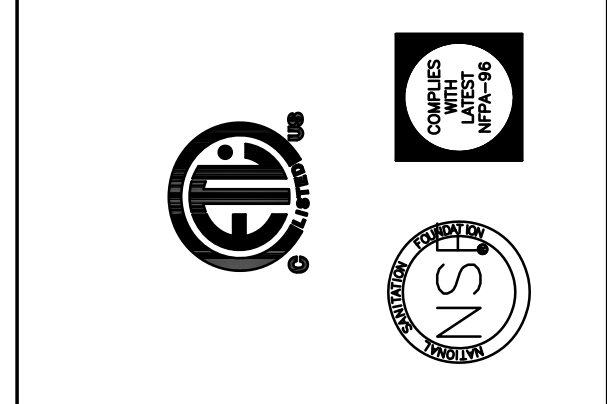
ELECTRICAL & DATA CABLE CONNECTION SCHEDULE

CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-M	120V, 15AMP - CONTROL PANEL POWER - 3 WIRES	BUILDING SOURCE	CONTROL PANEL
E2-M	BROADBAND INTERNET CONNECTION	BUILDING SOURCE	CONTROL PANEL
E3-M	FIRE MODE SIGNAL - TO FIRE SUPPRESSION PANEL - 2 WIRES	CONTROL PANEL	FIRE SYSTEM
E4-M	3 WIRE STP CABLE - PLENUM RATED - TO BMS(BACNET)	CONTROL PANEL	BMS
E5-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	CONTROL PANEL	HOOD #832L
E6-M	0-10V MUA SIGNAL TO BMS - 2 WIRES	CONTROL PANEL	BMS
E7-M	FIELD CONNECTION FOR MAIN DUCT GREASE SENSOR - 3 WIRES	CONTROL PANEL	GREASE SENSOR
E8-M	5 WIRE STP CABLE - PLENUM RATED FT6 - TO EF VFD	CONTROL PANEL	VFD
E9-M	2 WIRES TO SPACE TEMPERATURE SENSOR	CONTROL PANEL	TEMP SENSOR
E10-M	HIGH VOLTAGE WIRING FROM BUILDING SOURCE TO VFD	BUILDING SOURCE	VFD
E11-M	HIGH VOLTAGE WIRING FROM VFD TO FAN MOTOR	VFD	EF MOTOR
E12-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #832L
E13-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #832L	HOOD #832R
E14-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #832R
E15-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #832R	HOOD #840D
E16-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #840D
E17-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #840D	HOOD #840A
E18-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #840A
E19-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #840A	HOOD #840B
E20-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #840B
E21-M	2 WIRE SHIELDED NETWORK CABLE - PROVIDED BY HALTON	HOOD #840B	HOOD #840C
E22-M	120V, 15AMP - M.A.R.V.E.L. CONTROLLER POWER - 3 WIRES	BUILDING SOURCE	HOOD #840C
E23-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #832L
E24-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #832L	HOOD #832R
E25-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD #840D
E26-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #840D	HOOD #840A
E27-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #840A	HOOD #840B
E28-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD #840B	HOOD #840C

1ST FLR-800

NOTE  
HOODS TO BE FURNISHED  
BY USING AGENCY AND  
BE INSTALLED BY GC.

THE DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY.  
PLEASE PRINT THE FOLLOWING INFORMATION IN THE APPROPRIATE SPACES:  
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS  
AND CLEARANCES.  
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.  
NOTE TO APPROVER: COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT  
POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE  
CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.  
 REVERSE AND RESUBMIT  
 APPROVED FOR FABRICATION  
 WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301	HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600	BY DATE
<input type="checkbox"/>	<input checked="" type="checkbox"/>	WU 01.28.14
INCLUDED MARVEL SHEETS	REVISION DESCRIPTION	WU 04.09.14
REVISED CONNECTION SCHEDULE		WU 06.03.14
NO CHANGE		
1		
2		
3		
4		
5		
6		
7		

PROJECT: JOLIET JUNIOR COLLEGE  
LOCATION: JOLIET, IL  
DRAWN BY: WU | DATE: 01.28.14  
SCALE: NOT TO SCALE  
CONSULTANT: E.F. WHITNEY

REVISIONS CONTROL DETAILS

DRAWING No.: U12-715  
REV. NO.: 3 SHEET NO.: 6 of 6

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

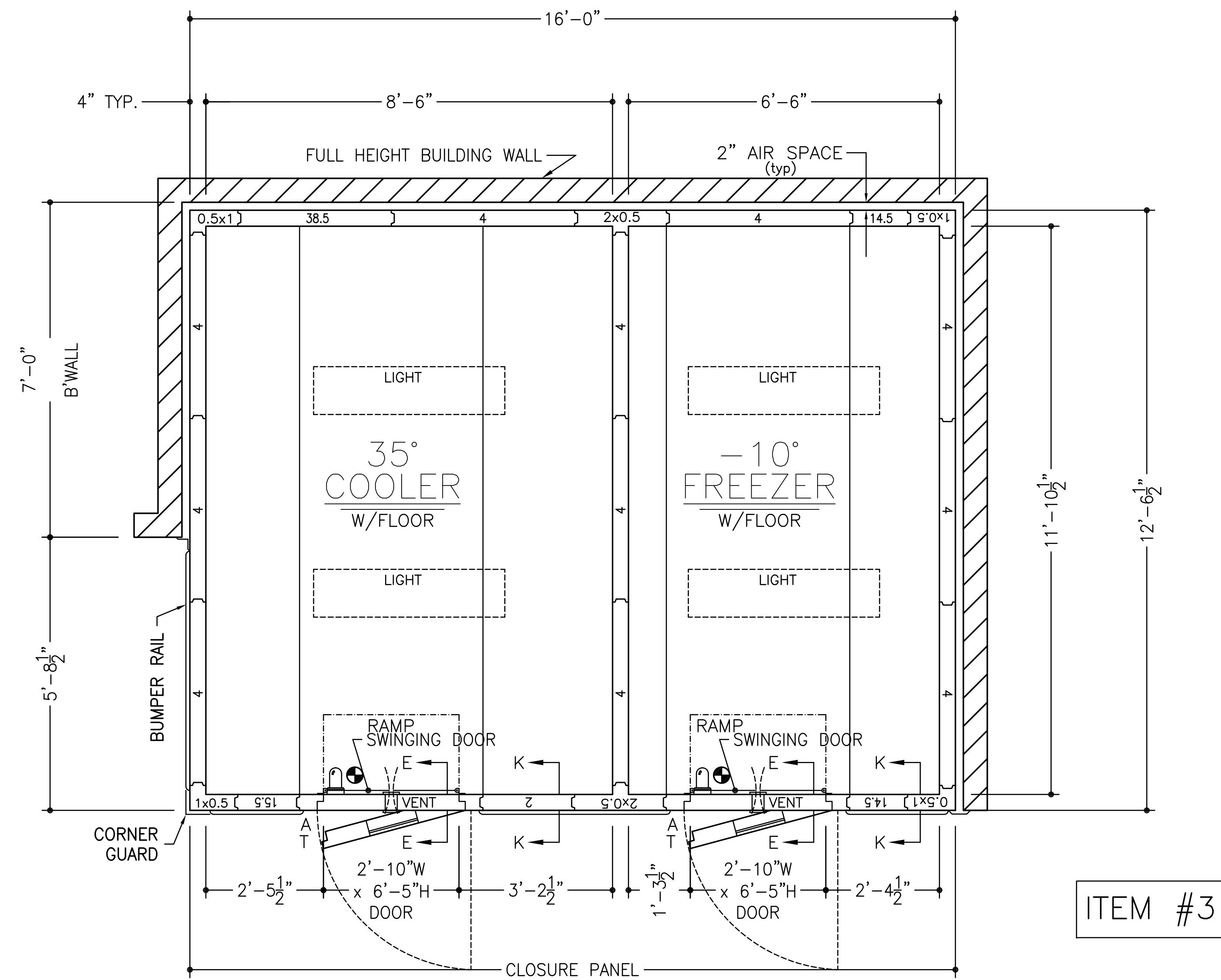
REVISIONS			DRAWN	PREPARED
NO.	DESCRIPTION	DATE	XXX	XXX
	Issued for Construction	07/31/15	XXX	XXX
			XXX	XXX
			XXX	EFW

<b>dk</b> DEMONICA KEMPER ARCHITECTS 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJWW</b> K.J.W. ENGINEERING 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>EFW</b> E.F. WHITNEY, INC. 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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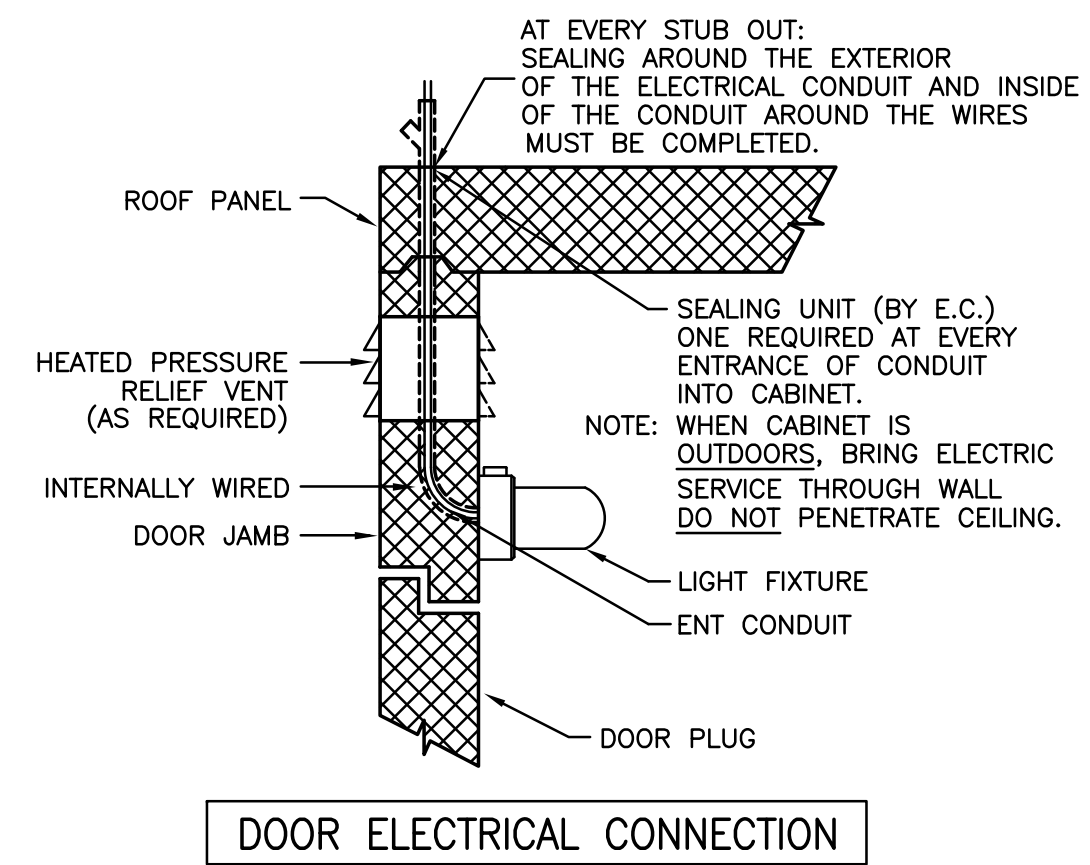
**A LA CARTE RESTAURANT**  
**ISSUED FOR CONSTRUCTION**  
**M.A.R.V.E.L. SYSTEM DETAILS #832**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

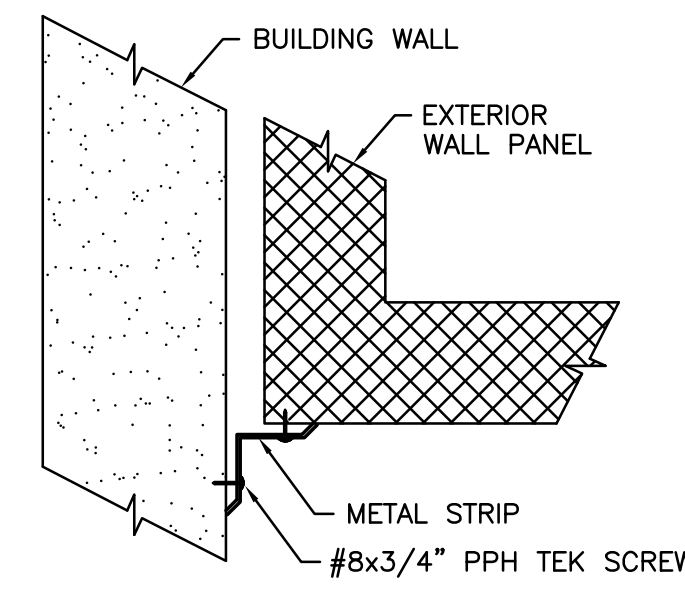
PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. **FSE-113**  
OF SHEETS



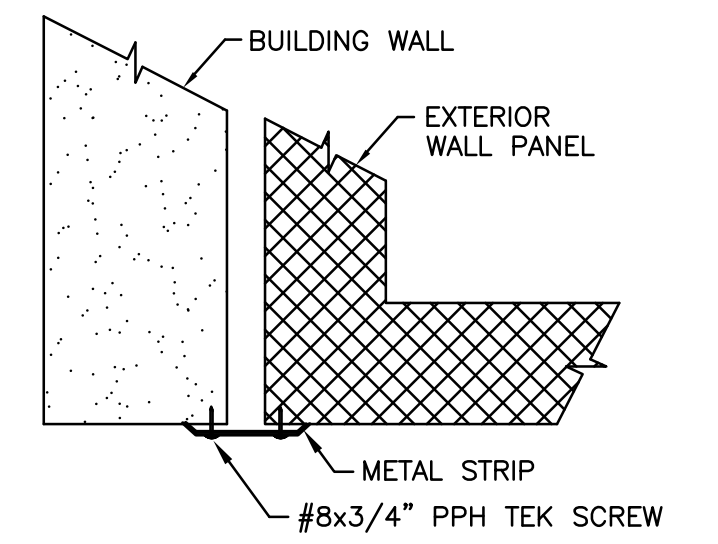
ITEM #3



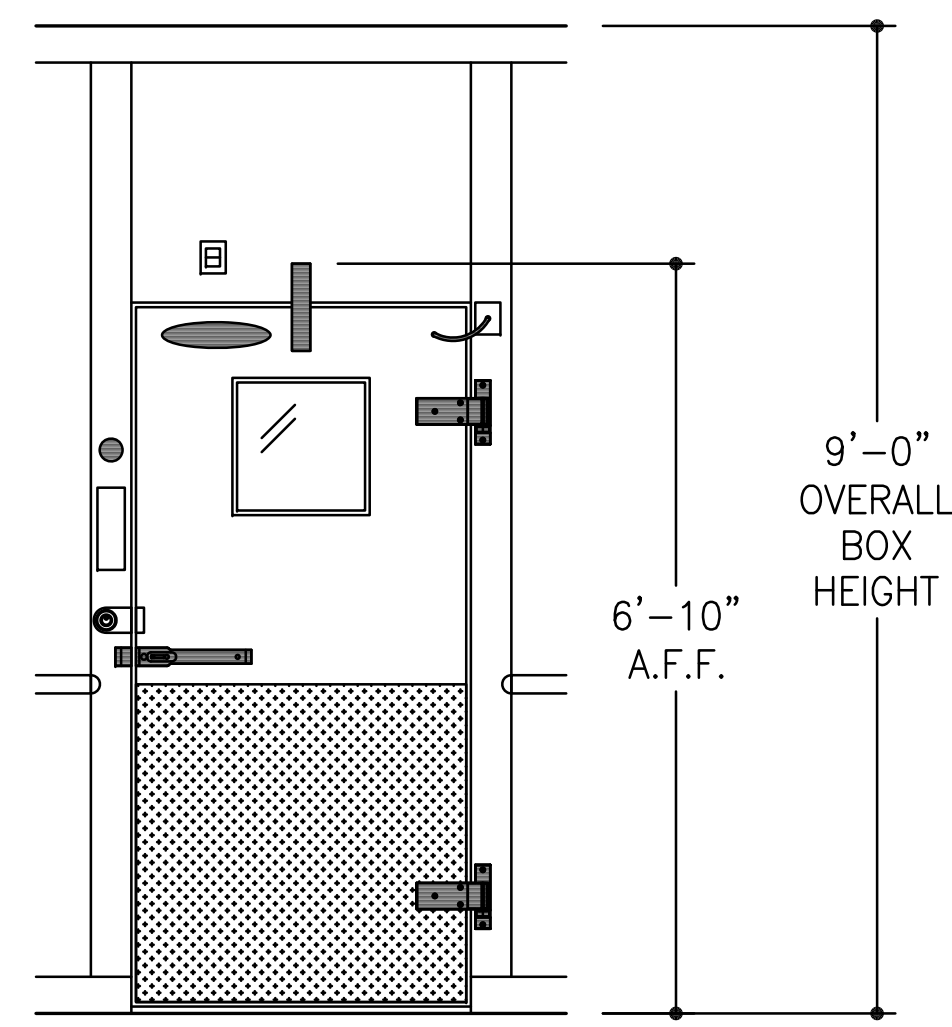
DOOR ELECTRICAL CONNECTION



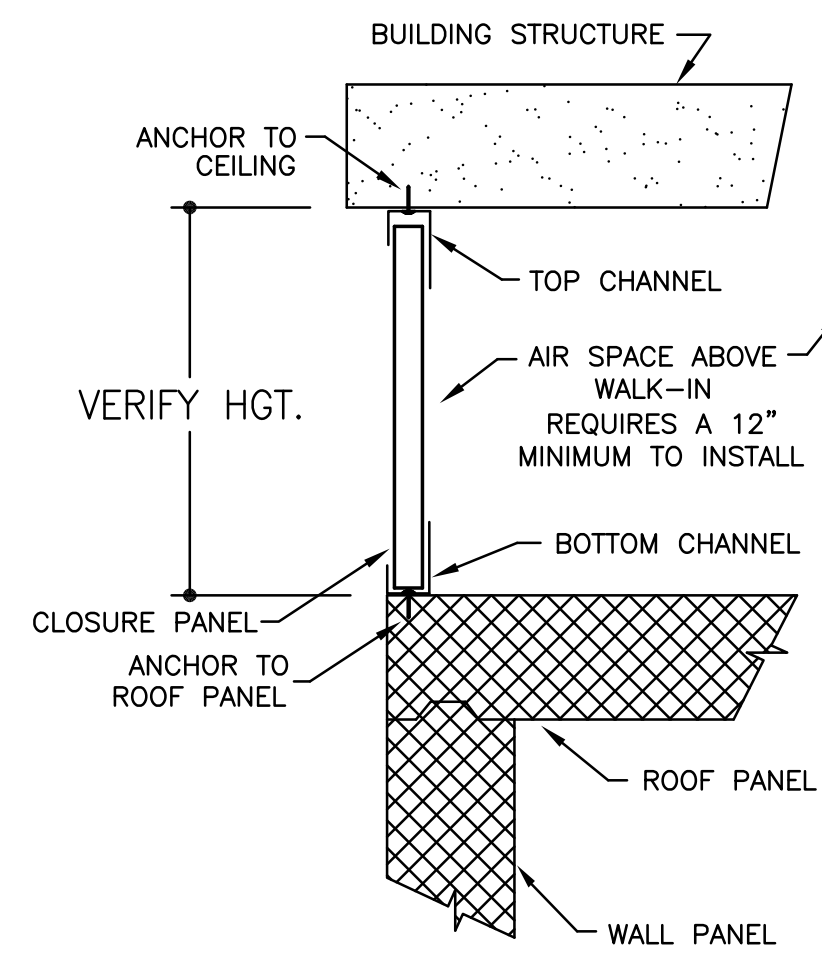
TRIM ANGLE  
DETAIL #2



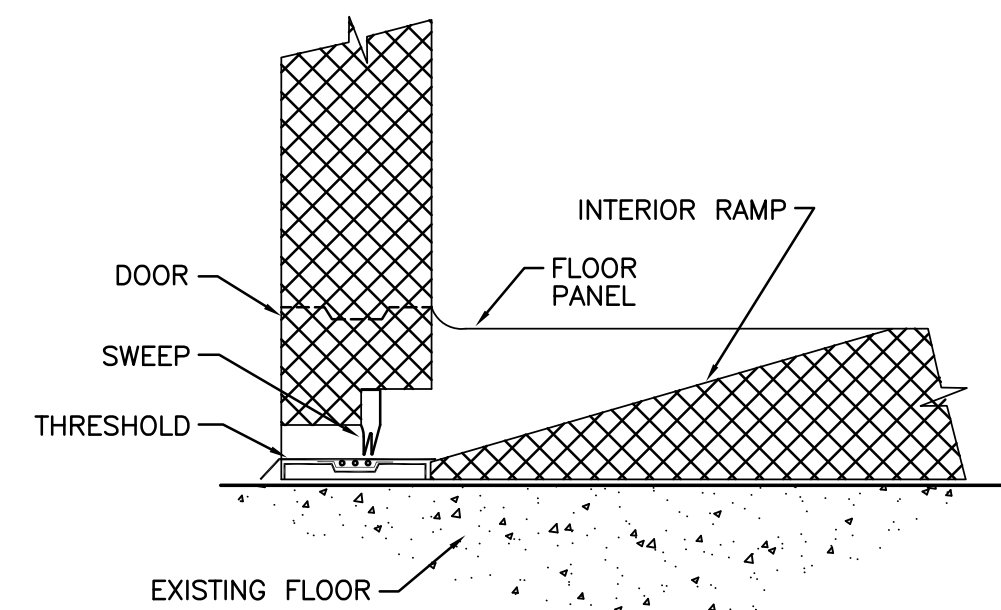
TRIM ANGLE  
DETAIL #3



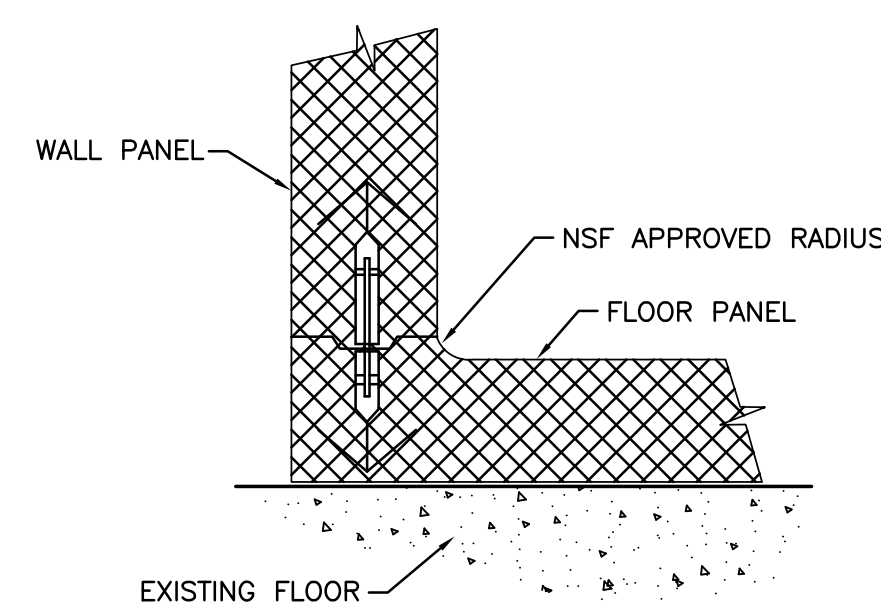
DOOR ELEVATION  
TYP.



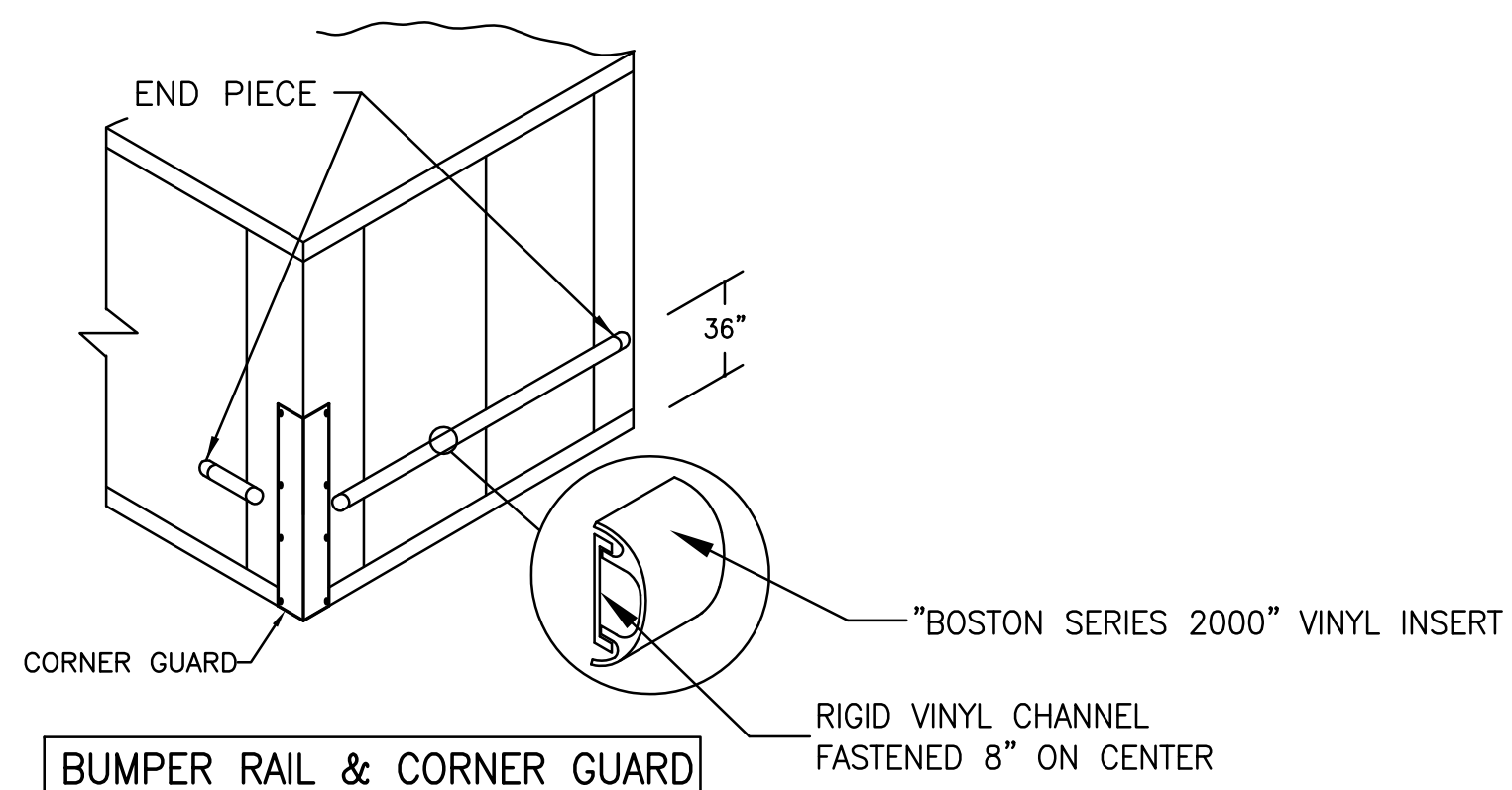
CLOSURE PANEL



SECTION E - E



SECTION K - K



BUMPER RAIL & CORNER GUARD

- ~SPECIFICATIONS~
- BOX HEIGHT: FREEZER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)  
COOLER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)
  - CONSTRUCTION: FOAMED IN PLACE  
NSF LISTED, STANDARD NO. 7
  - INSULATION: 4" URETHANE, FINISHED PANEL  
UL CLASSIFIED FLAME SPREAD 20  
CORE SMOKE DEVELOPED 350
  - INSTALLATION: INDOOR
  - FLOOR: (SEE DETAILS)  
FREEZER - STANDARD W/INTERIOR RAMP  
COOLER - STANDARD W/INTERIOR RAMP
  - DOOR HARDWARE & ACCESSORIES: EACH DOOR  
115v POWER TO BE STUBBED OUT CEILING PANEL  
DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK  
PROVISION & INSIDE RELEASE  
KASON #10944-S DEADBOLT LOCK  
FRAME HEATER WIRE  
HYDRAULIC DOOR CLOSER  
TEMP. ALARM INCLUDING:  
DIRECT LINE VOLTAGE SYSTEM: 115vac, 60Hz, 1Ph  
C OR F TEMPERATURE SELECTION  
5 DIGITS DIGITAL DISPLAY  
AIR PROBE & DOOR HEATER PROBE, NTC SENSOR  
LIGHT SWITCH & DOOR HEATER CONTROL  
PROGRAMMABLE AIR CAVITY HIGH & LOW TEMPERATURE ALARMS  
PROGRAMMABLE AUTOMATIC LIGHT SHUT OFF  
EXTERNAL ALARM RELAY  
(115vac, 60Hz, 1Ph, 150W DIRECT POWER CONNECTION)  
INTEGRAL BUZZER ALARM  
KASON #1806 PLUG-IN LED VAPOR PROOF LIGHT FIXTURE  
W/11.5 WATT BULB, GLOBE & WIRE GUARD  
CCI CLEAR VU SWINGING DOOR  
2 - STD. CAM RISE HINGES  
2" FLUSH MOUNT DIAL THERMOMETER W/6" PROBE  
HEATED VISION WINDOW (14" x 14")  
1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH 1/S & O/S  
KASON #1825 PRESSURE RELIEF VENT
  - ACCESSORIES: 2 - PCS. TRIM ANGLE  
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)  
4 - 48" (1810LX) LED LIGHT FIXTURES @ 39w EACH (SHIPPED LOOSE)  
RIGID VINYL EXTRUSION BUMPER RAIL (BOSTON SERIES 2000)  
W/VINYL INSERT @ 36" A.F.F.  
1 - 12 GA STAINLESS STEEL CORNER GUARD @ 48" HIGH
  - METAL FINISHES: INTERIOR WALLS & CEILING - .032 STUCCO ALUMINUM  
EXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
UNEXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
EXTERIOR FLOOR & CEILING - 26 GA STUCCO ACRYLUME  
INTERIOR FLOOR - DIAMOND PLATE
  - REFRIGERATION: BY GC

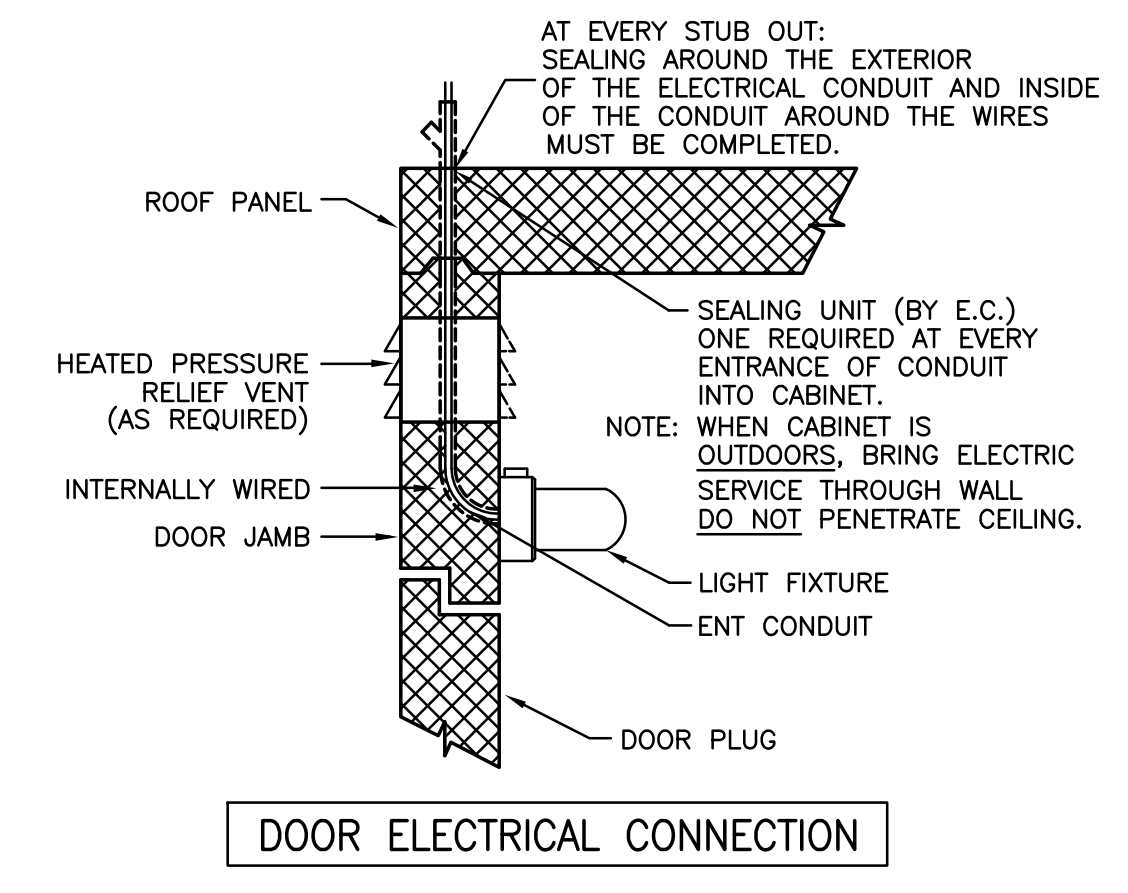
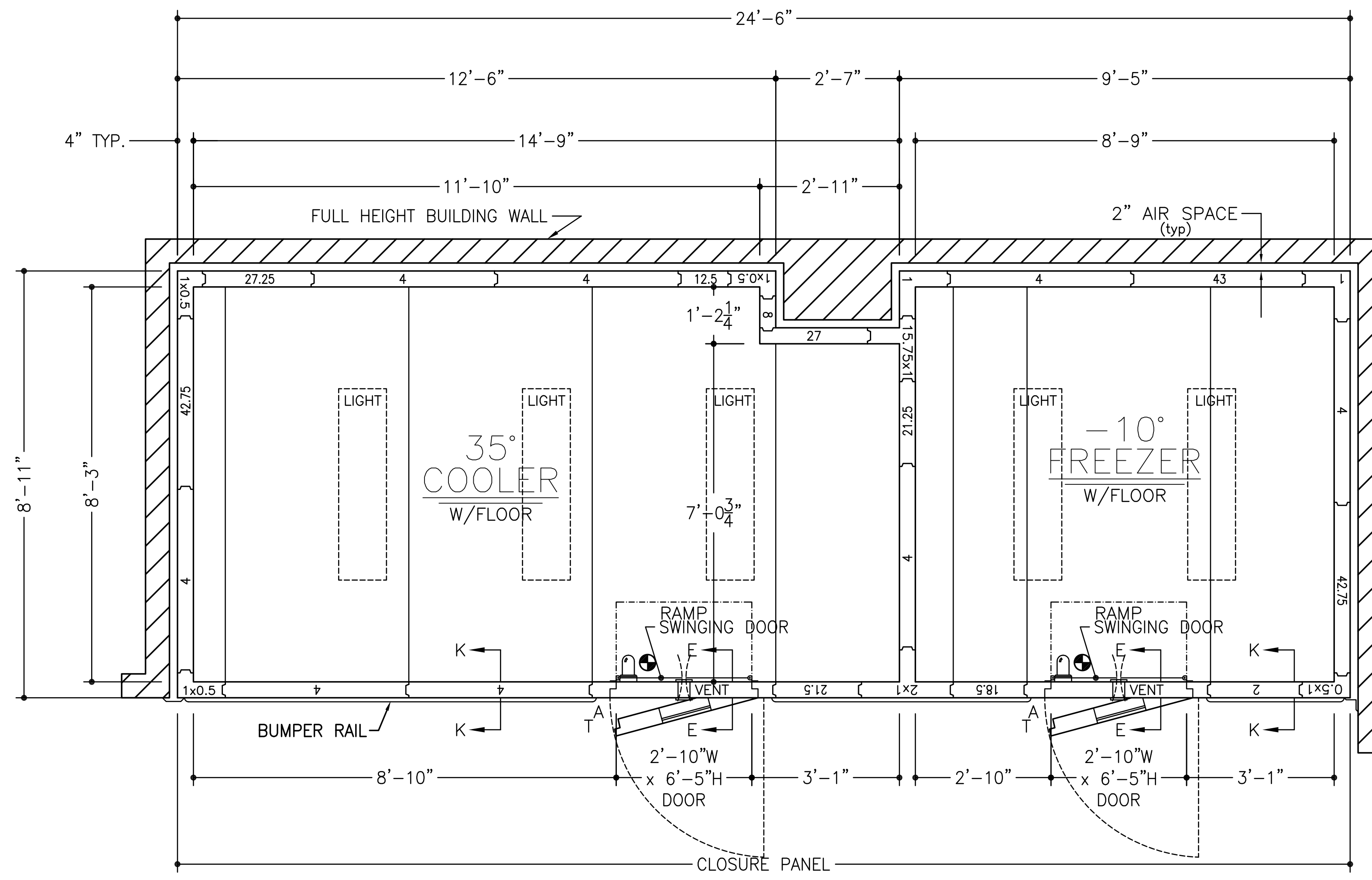
ELECTRICAL DATA	
⊙	= POINT OF ELECTRICAL CONNECTIONS.
WALK-IN DOORS:	115v/1φ - 350w*

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

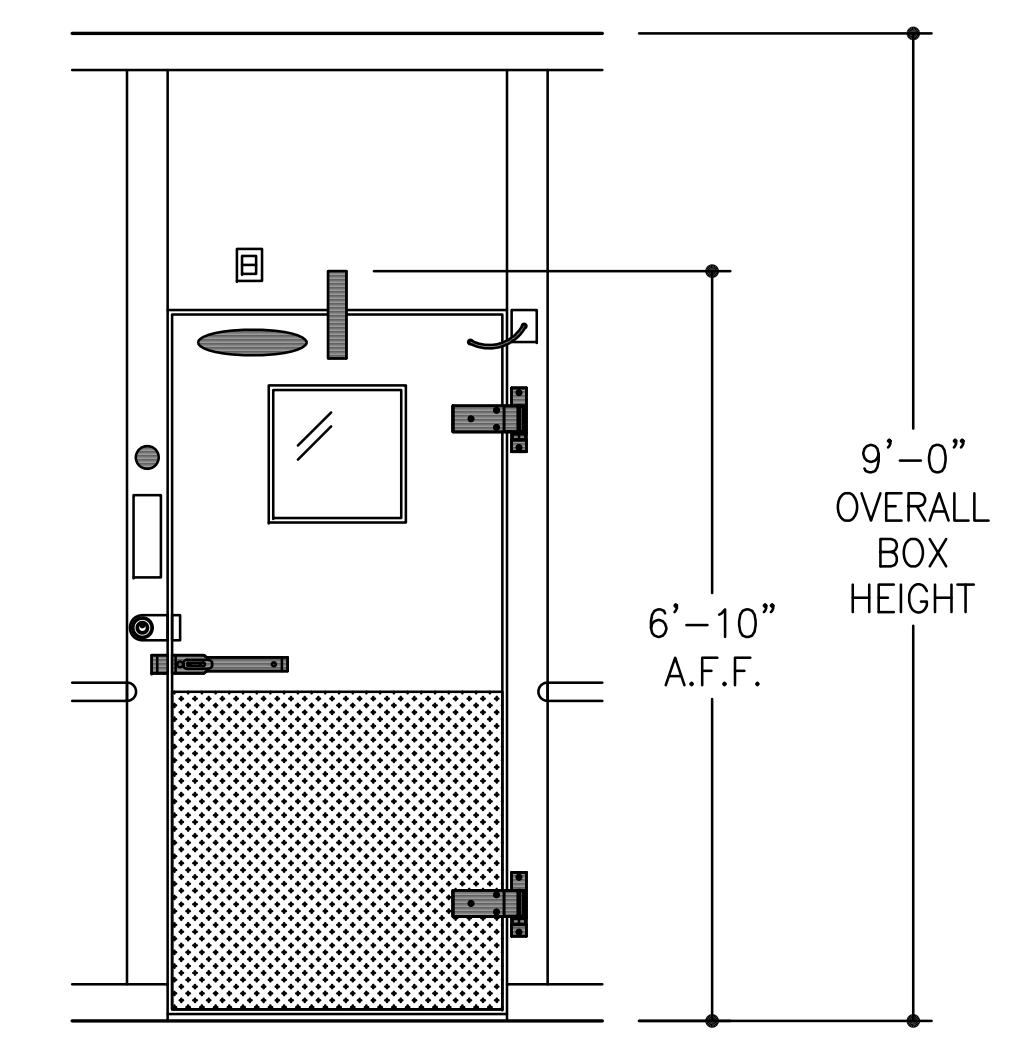
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<p><b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000</p>	<p><b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320</p>	<p><b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990</p>
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<b>PRODUCTION KITCHEN 1</b> <b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>WALK-IN REFRIGERATOR/FREEZER DETAILS - #3</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-114</b>
		OF SHEETS



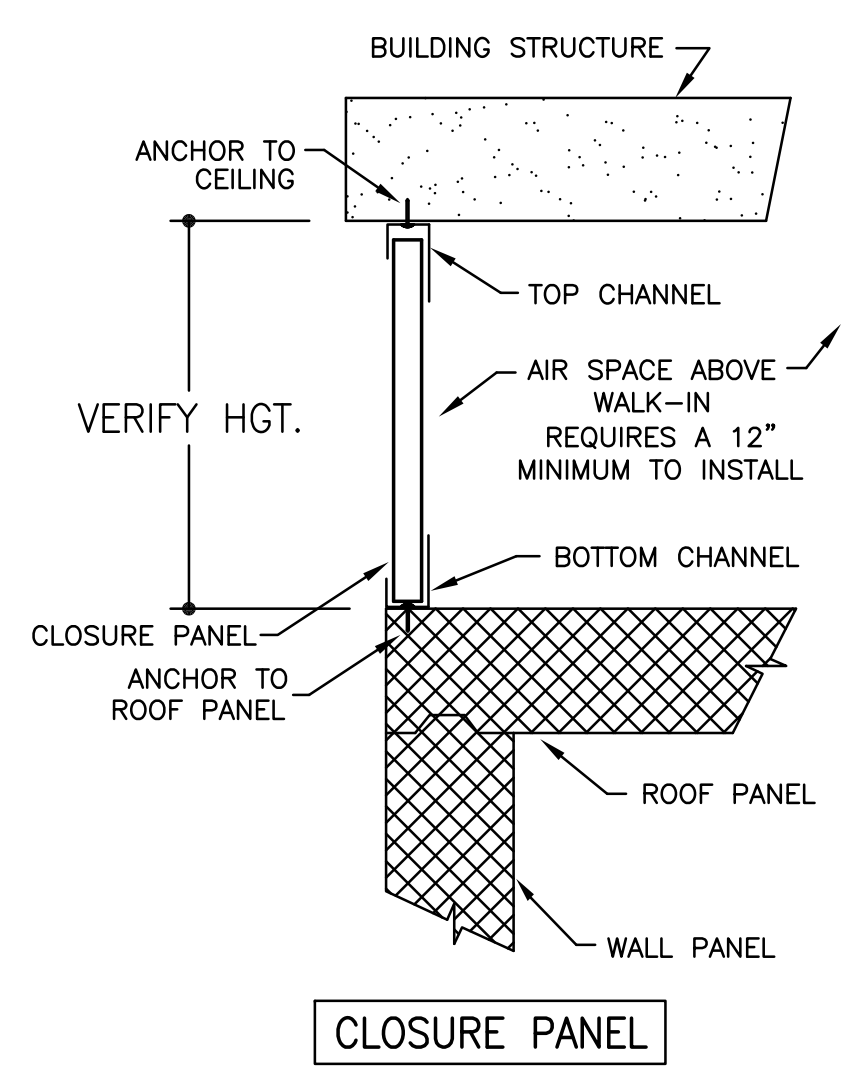
ITEM #71



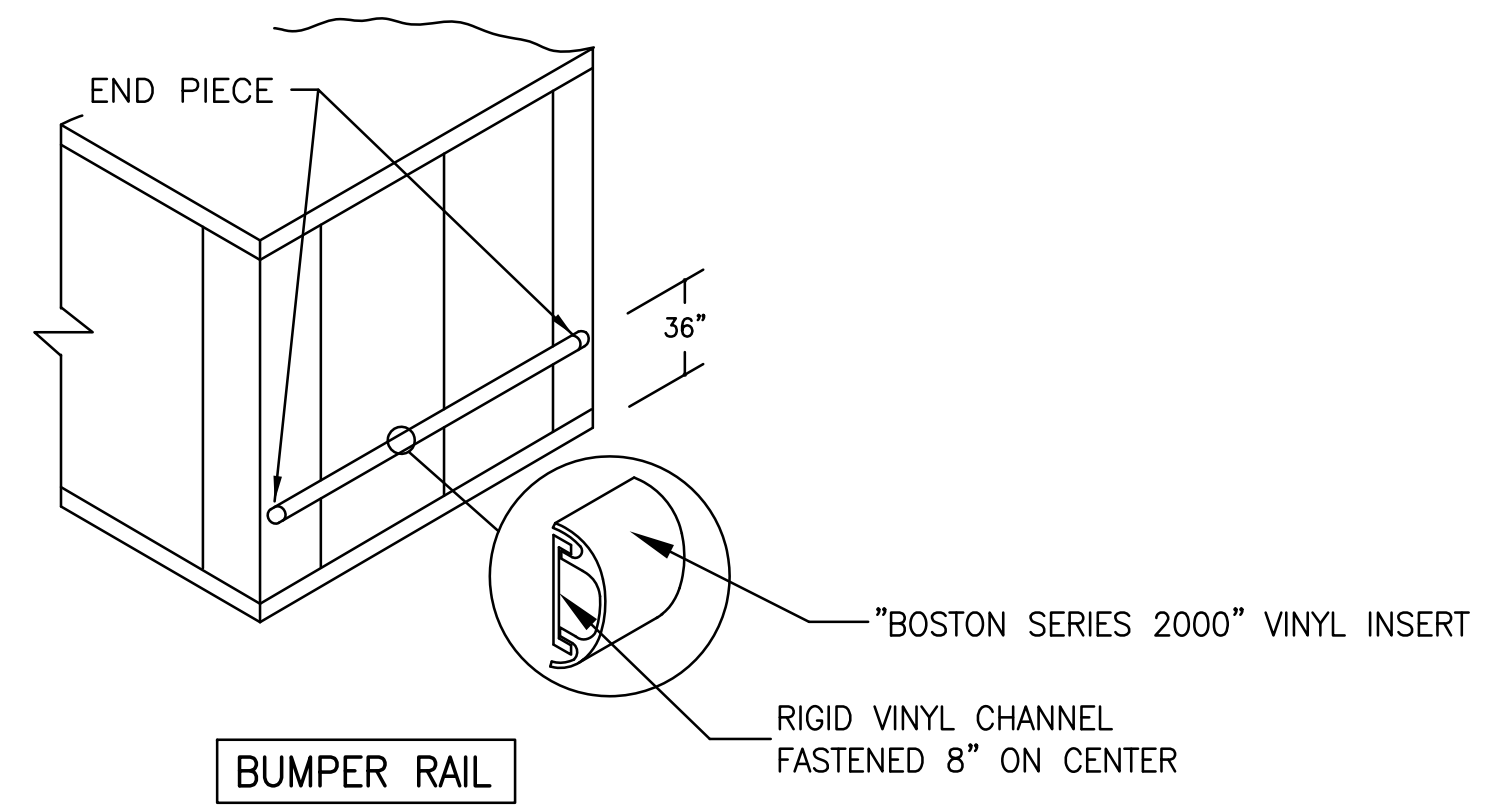
DOOR ELEVATION TYP.

- ~SPECIFICATIONS~**
- BOX HEIGHT:** FREEZER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)  
COOLER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)
- CONSTRUCTION:** FOAMED IN PLACE  
NSF LISTED, STANDARD NO. 7
- INSULATION:** 4" URETHANE, FINISHED PANEL  
UL CLASSIFIED FLAME SPREAD 20  
CORE SMOKE DEVELOPED 350
- INSTALLATION:** INDOOR
- FLOOR:** FREEZER - STANDARD W/INTERIOR RAMP  
(SEE DETAILS) COOLER - STANDARD W/INTERIOR RAMP
- DOOR HARDWARE & ACCESSORIES:** 115v POWER TO BE STUBBED OUT CEILING PANEL  
DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK  
PROVISION & INSIDE RELEASE  
KASON #10944-5 DEADBOLT LOCK  
FRAME HEATER WIRE  
HYDRAULIC DOOR CLOSER  
TEMP. ALARM INCLUDING:  
DIRECT LINE VOLTAGE SYSTEM: 115VAC, 60Hz, 1Ph  
C OR F TEMPERATURE SELECTION  
5 DIGITS DIGITAL DISPLAY  
AIR PROBE & DOOR HEATER PROBE, NTC SENSOR  
LIGHT SWITCH & DOOR HEATER CONTROL  
PROGRAMMABLE AIR CAVITY HIGH & LOW TEMPERATURE ALARMS  
PROGRAMMABLE AUTOMATIC LIGHT SHUT OFF  
EXTERNAL ALARM RELAY  
(115VAC, 60Hz, 1Ph 150W DIRECT POWER CONNECTION)  
INTEGRAL BUZZER ALARM  
KASON #1806 PLUG-IN LED VAPOR PROOF LIGHT FIXTURE  
W/11.5 WATT BULB, GLOBE & WIRE GUARD  
CCI CLEAR VU SWINGING DOOR  
2 - STD. CAM RISE HINGES  
2" FLUSH MOUNT DIAL THERMOMETER W/6" PROBE  
HEATED VISION WINDOW (14" x 14")  
1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH 1/8" & 0/8"  
KASON #1825 PRESSURE RELIEF VENT
- ACCESSORIES:** 2 - PCS. TRIM ANGLE  
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)  
5 - 48" (1810LX) LED LIGHT FIXTURES @ 39w EACH (SHIPPED LOOSE)  
RIGID VINYL EXTRUSION BUMPER RAIL (BOSTON SERIES 2000)  
W/VINYL INSERT @ 36" A.F.F.
- METAL FINISHES:** INTERIOR WALLS & CEILING - .032 STUCCO ALUMINUM  
EXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
UNEXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
EXTERIOR FLOOR & CEILING - 26 GA STUCCO ACRYLUME  
INTERIOR FLOOR - DIAMOND PLATE
- REFRIGERATION:** BY GC

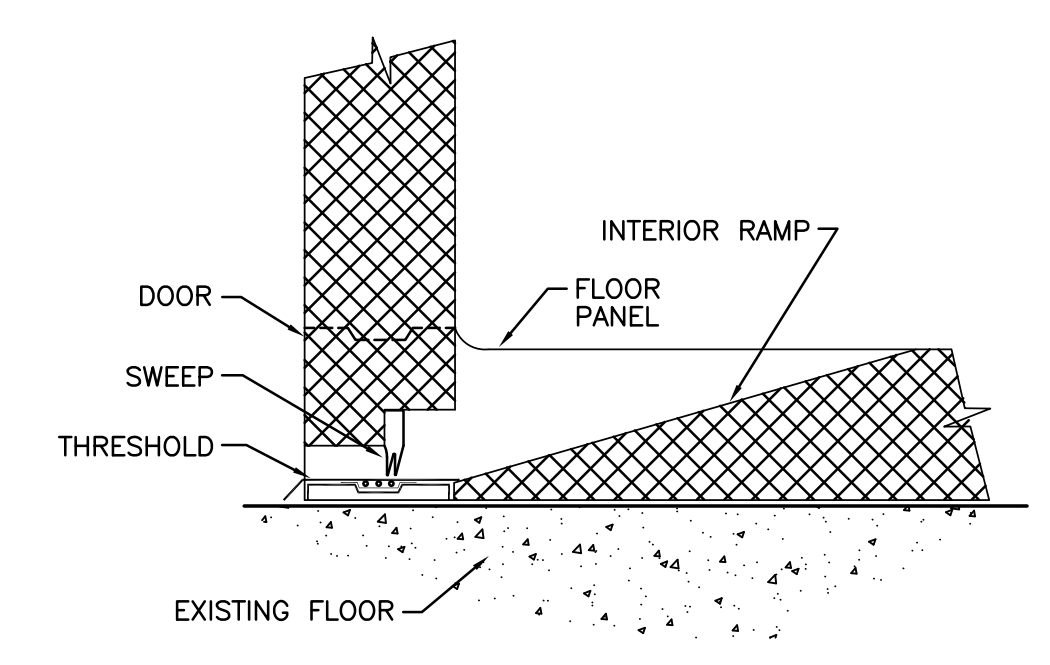
ELECTRICAL DATA	
	= POINT OF ELECTRICAL CONNECTIONS.
WALK-IN DOORS:	115v/1ø - 350w*



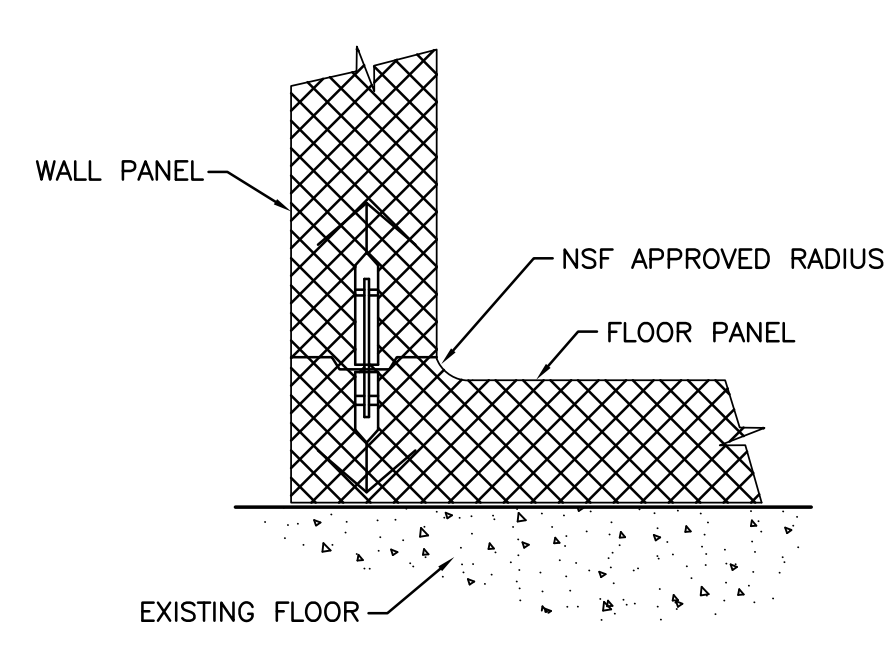
CLOSURE PANEL



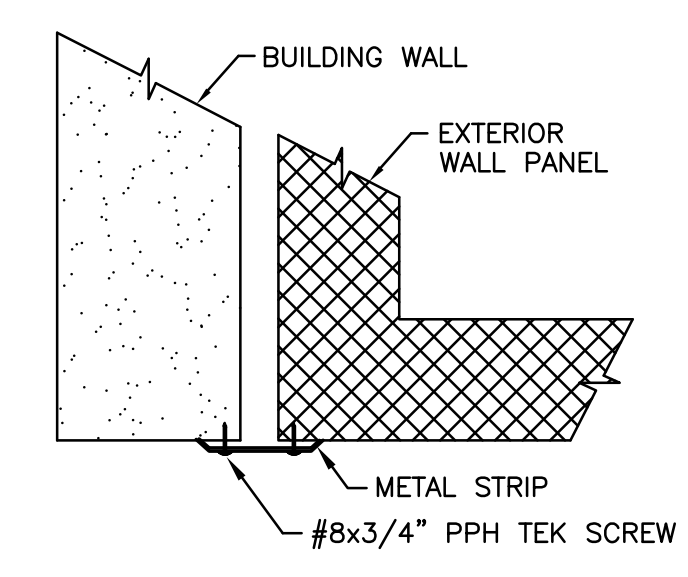
BUMPER RAIL



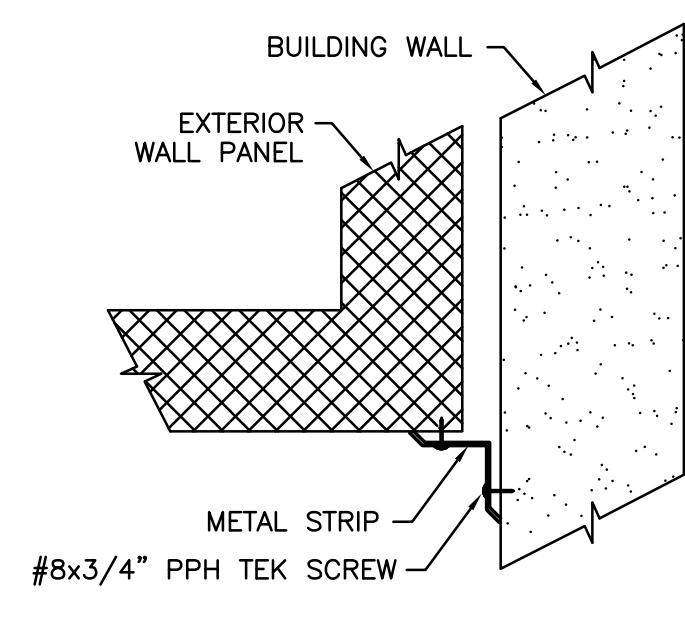
SECTION E - E



SECTION K - K



TRIM ANGLE DETAIL #3



TRIM ANGLE DETAIL #2

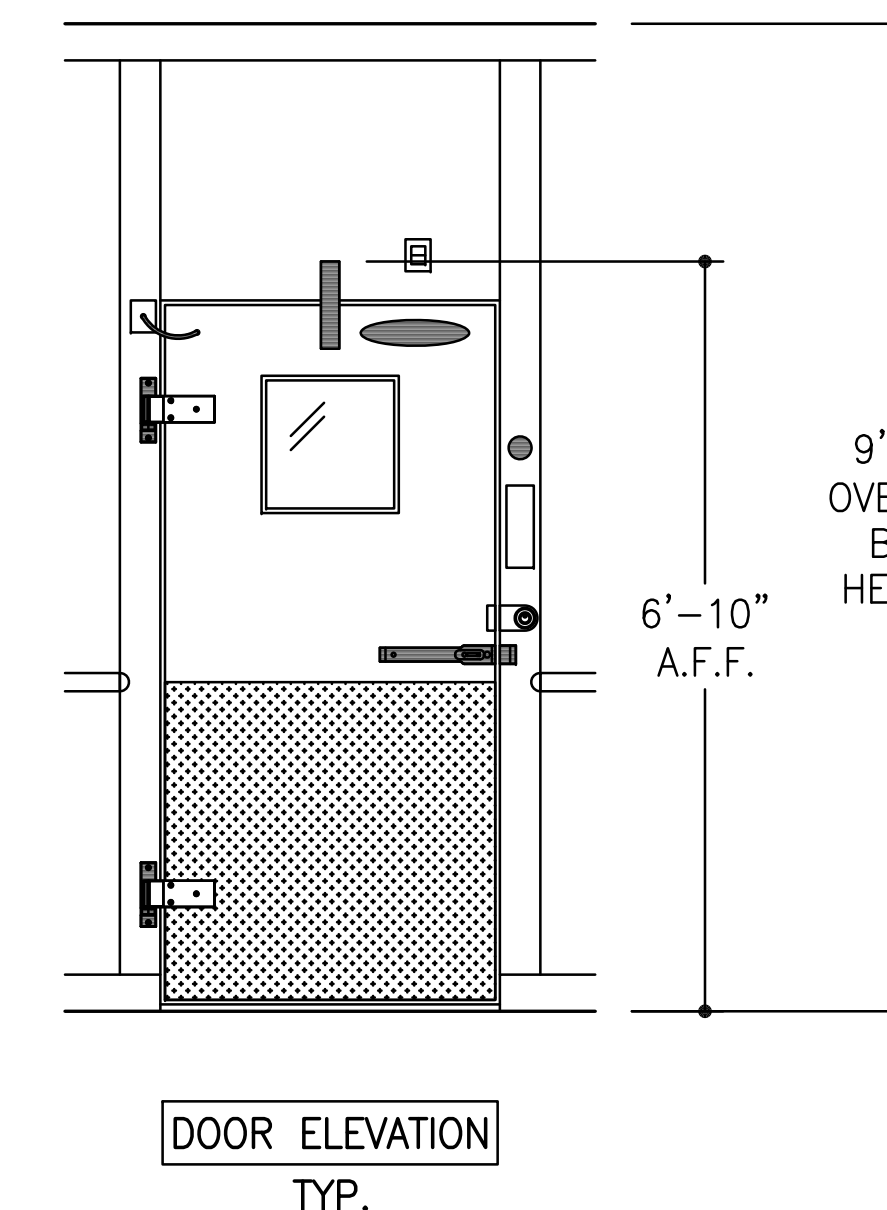
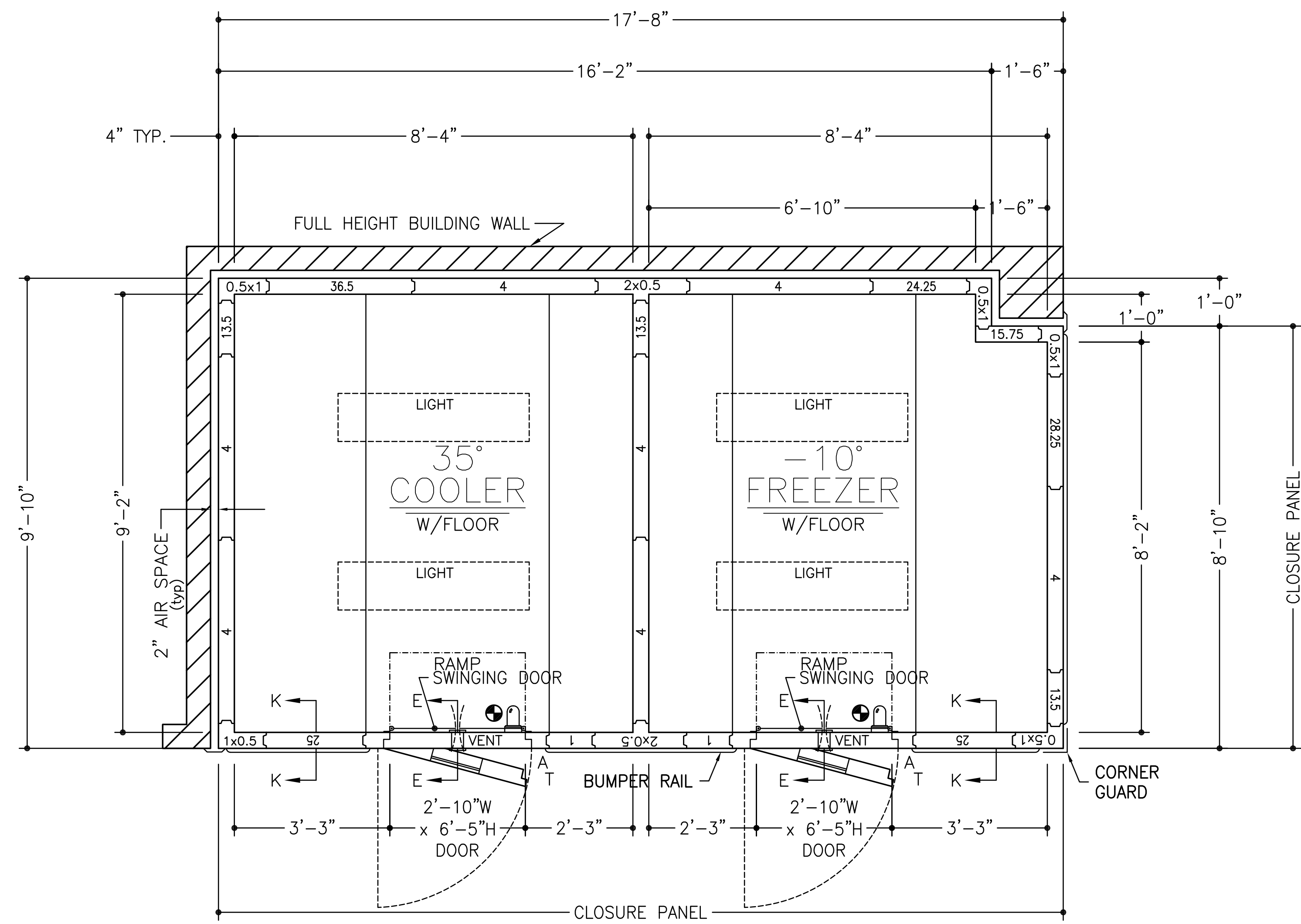
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

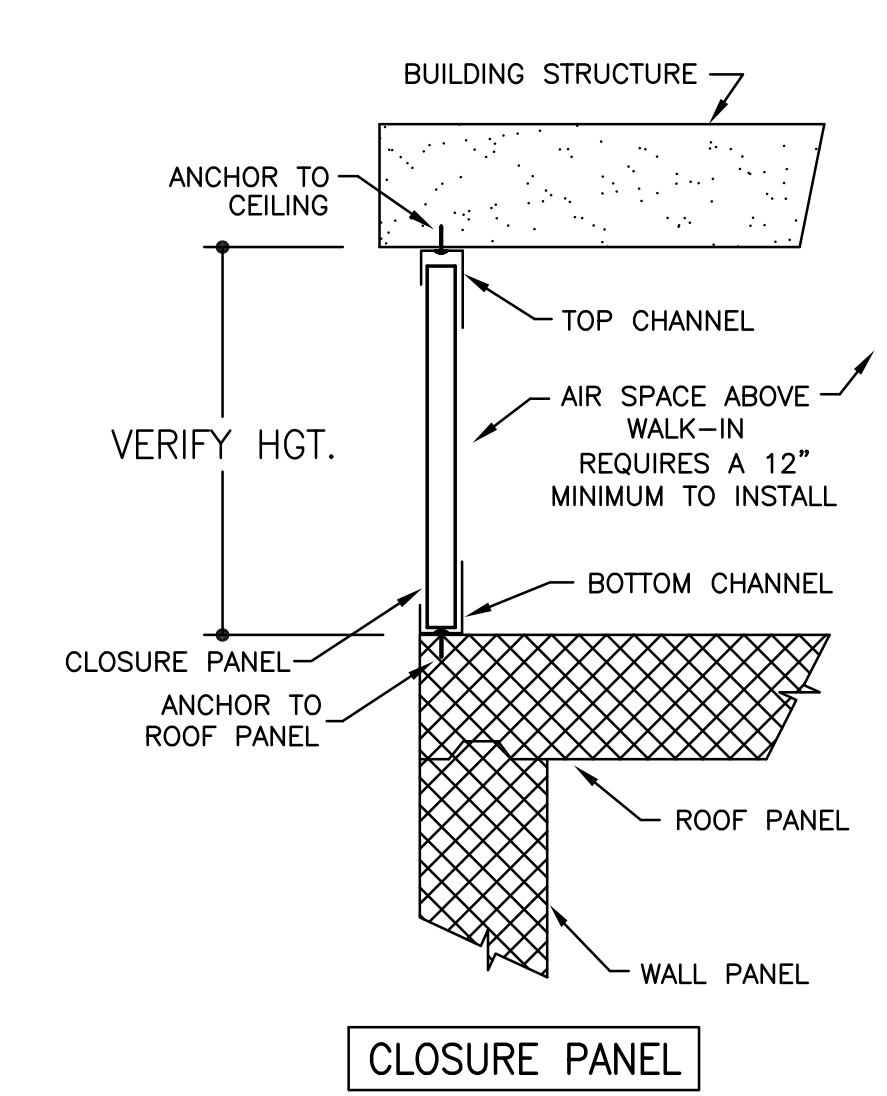
 <b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	 <b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	 <b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>PRODUCTION KITCHEN 2</b> <b>ISSUED FOR CONSTRUCTION</b> <b>WALK-IN REFRIGERATOR/FREEZER DETAILS - #71</b>		PROJECT NO. CDB 810-048-023
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>		DATE DEC. 12, 2014
<b>FSE-115</b> OF SHEETS		SHEET NO.



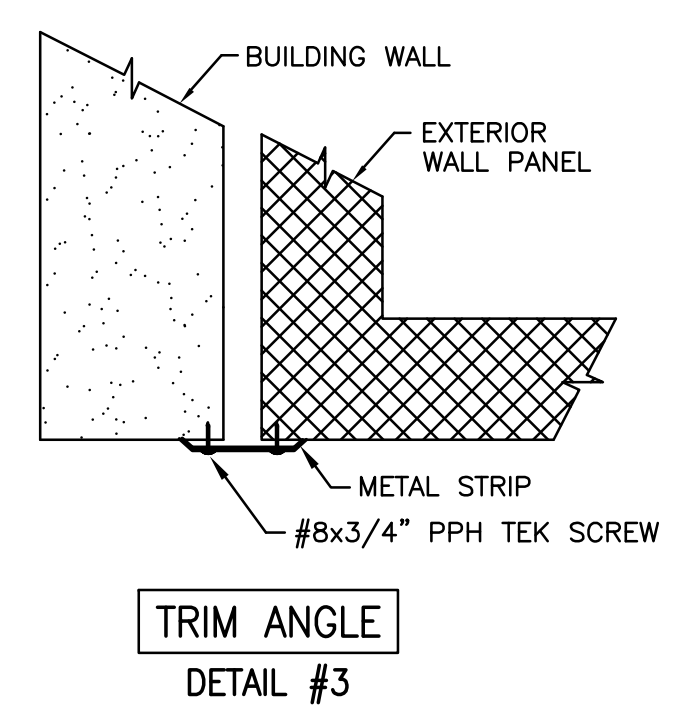
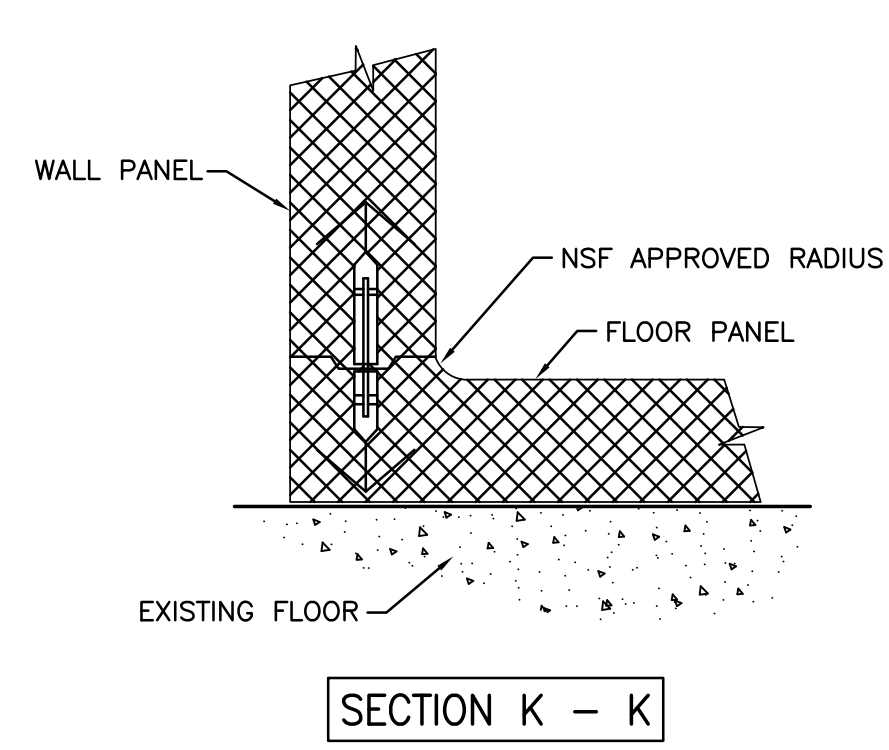
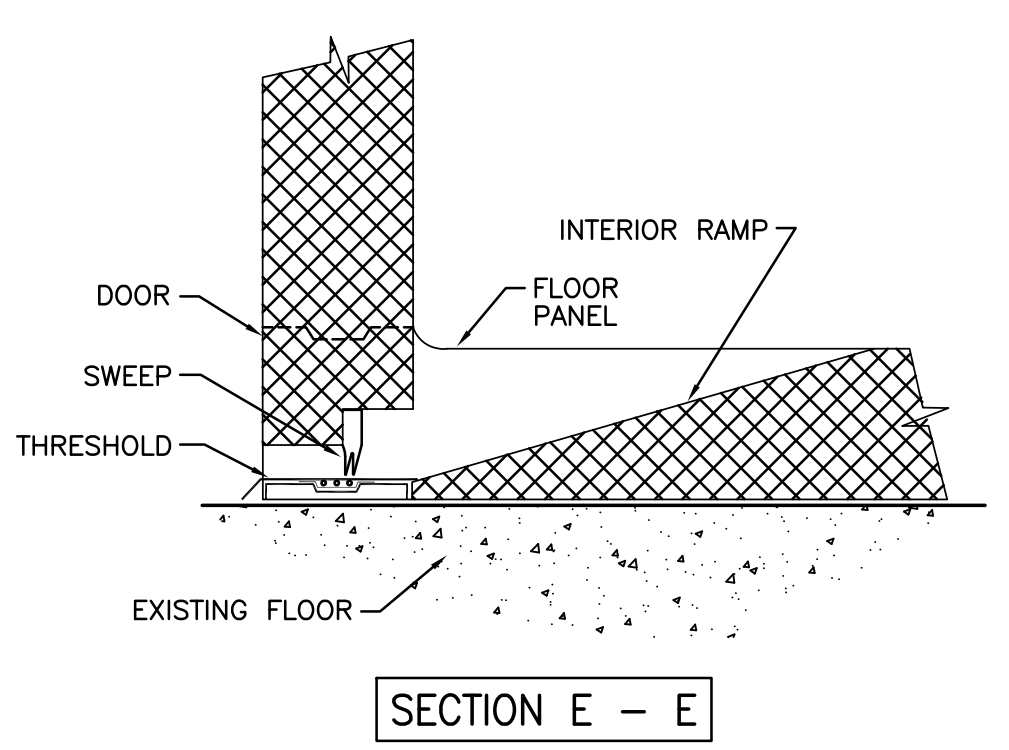
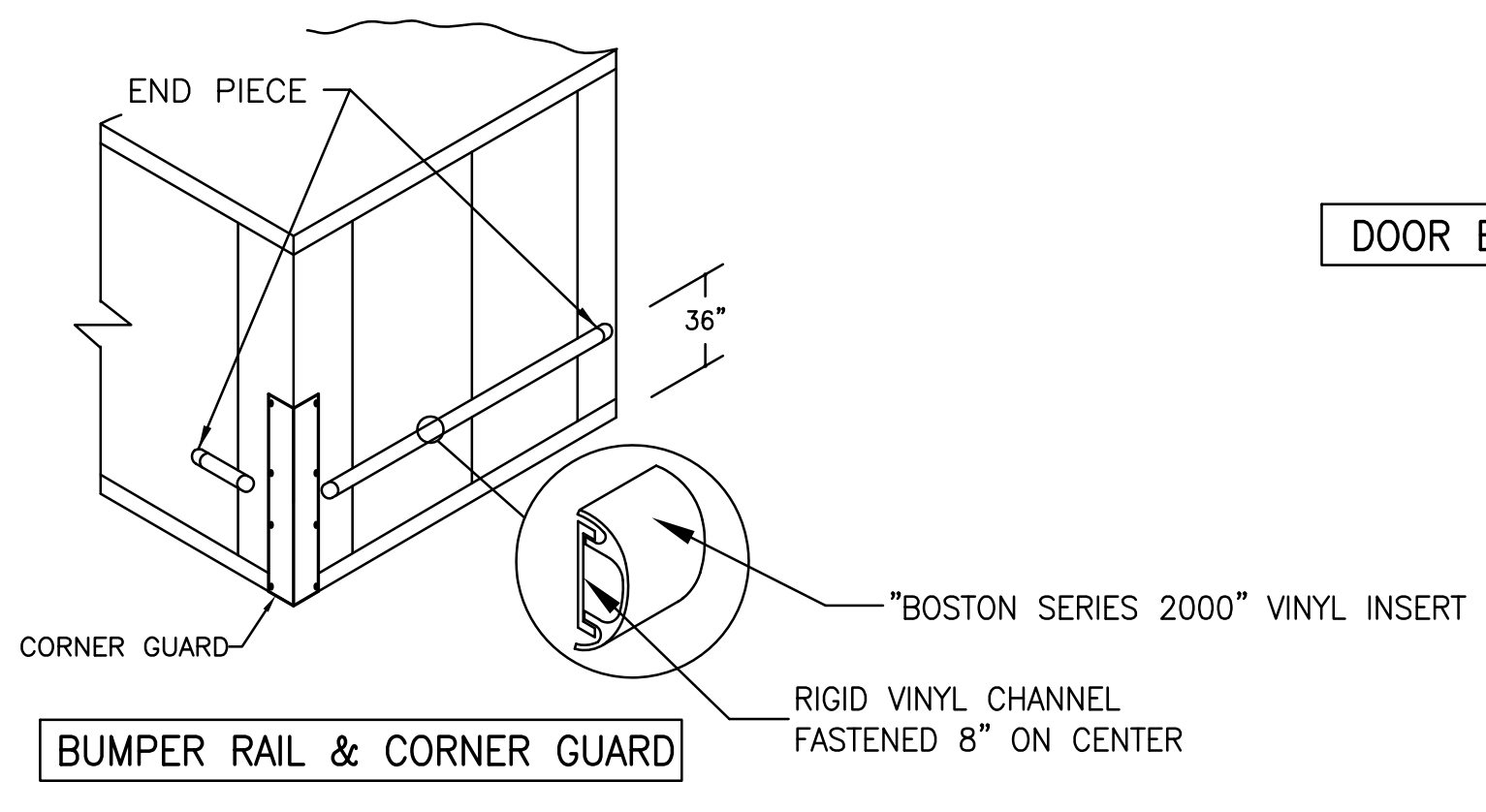
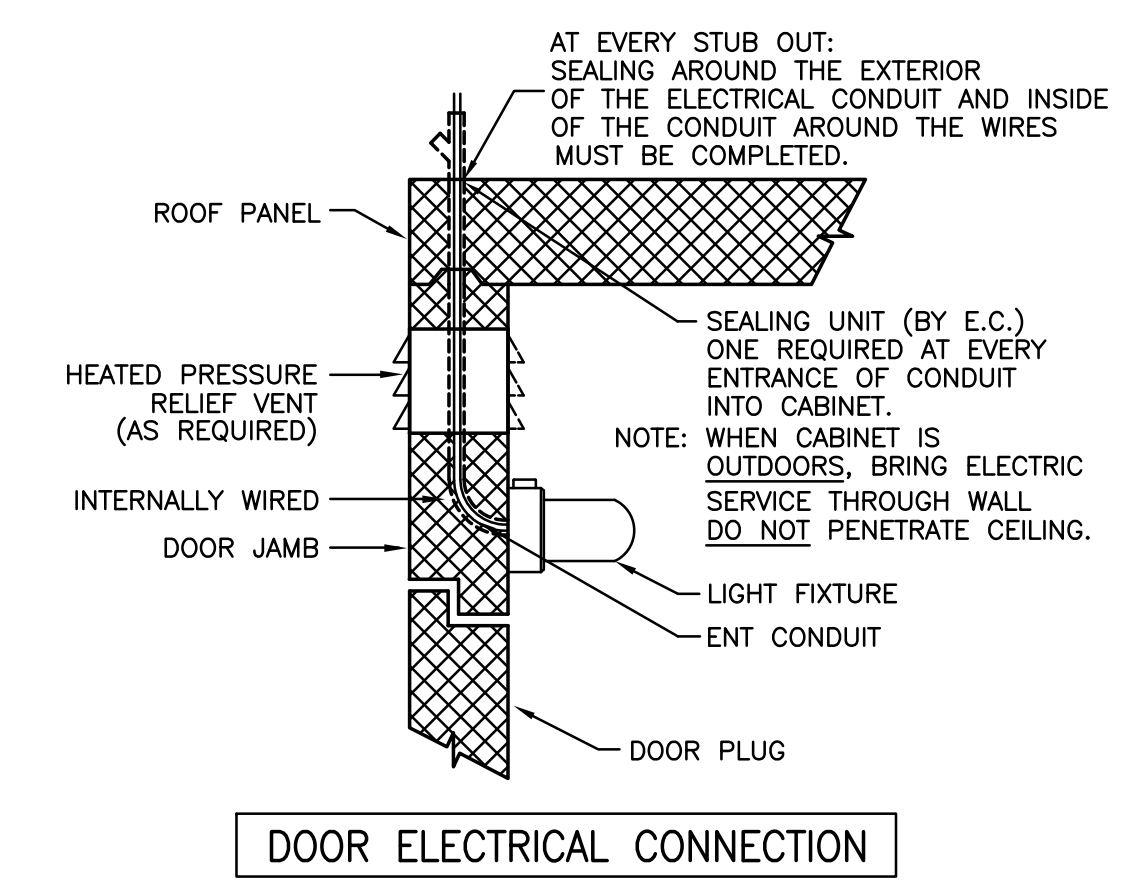


ITEM #198



- ~SPECIFICATIONS~**
- BOX HEIGHT:** FREEZER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)  
COOLER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)
  - CONSTRUCTION:** FOAMED IN PLACE  
NSF LISTED, STANDARD NO. 7
  - INSULATION:** 4" URETHANE, FINISHED PANEL  
UL CLASSIFIED FLAME SPREAD 20  
CORE SMOKE DEVELOPED 350
  - INSTALLATION:** INDOOR
  - FLOOR:** FREEZER - STANDARD W/INTERIOR RAMP  
COOLER - STANDARD W/INTERIOR RAMP
  - DOOR HARDWARE & ACCESSORIES:** 115v POWER TO BE STUBBED OUT CEILING PANEL  
DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK  
PROVISION & INSIDE RELEASE  
KASON #10944-5 DEADBOLT LOCK  
FRAME HEATER WIRE  
HYDRAULIC DOOR CLOSER  
TEMP. ALARM INCLUDING:  
DIRECT LINE VOLTAGE SYSTEM: 115vac, 60Hz, 1Ph  
C OR F TEMPERATURE SELECTION  
5 DIGITS DIGITAL DISPLAY  
AIR PROBE & DOOR HEATER PROBE, NTC SENSOR  
LIGHT SWITCH & DOOR HEATER CONTROL  
PROGRAMMABLE AIR CAVITY HIGH & LOW TEMPERATURE ALARMS  
PROGRAMMABLE AUTOMATIC LIGHT SHUT OFF  
EXTERNAL ALARM RELAY  
(115vac, 60Hz, 1Ph 150W DIRECT POWER CONNECTION)  
INTEGRAL BUZZER ALARM  
KASON #1806 PLUG-IN LED VAPOR PROOF LIGHT FIXTURE  
W/11.5 WATT BULB, GLOBE & WIRE GUARD  
CCI CLEAR VU SWINGING DOOR  
2 - STD. CAM RISE HINGES  
2" FLUSH MOUNT DIAL THERMOMETER W/6" PROBE  
HEATED VISION WINDOW (14" x 14")  
1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH 1/S & O/S  
KASON #1825 PRESSURE RELIEF VENT
  - ACCESSORIES:** 2 - PCS. TRIM ANGLE  
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)  
4 - 48" (1810LX) LED LIGHT FIXTURES @ 39w EACH (SHIPPED LOOSE)  
RIGID VINYL EXTRUSION BUMPER RAIL (BOSTON SERIES 2000)  
W/VINYL INSERT @ 36" A.F.F.  
1 - 12 GA STAINLESS STEEL CORNER GUARD @ 48" HIGH
  - METAL FINISHES:** INTERIOR WALLS & CEILING - .032 STUCCO ALUMINUM  
EXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
UNEXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
EXTERIOR FLOOR & CEILING - 26 GA STUCCO ACRYLUME  
INTERIOR FLOOR - DIAMOND PLATE
  - REFRIGERATION:** BY GC

ELECTRICAL DATA	
⊕	= POINT OF ELECTRICAL CONNECTIONS.
WALK-IN DOORS:	115v/1ϕ - 350w*

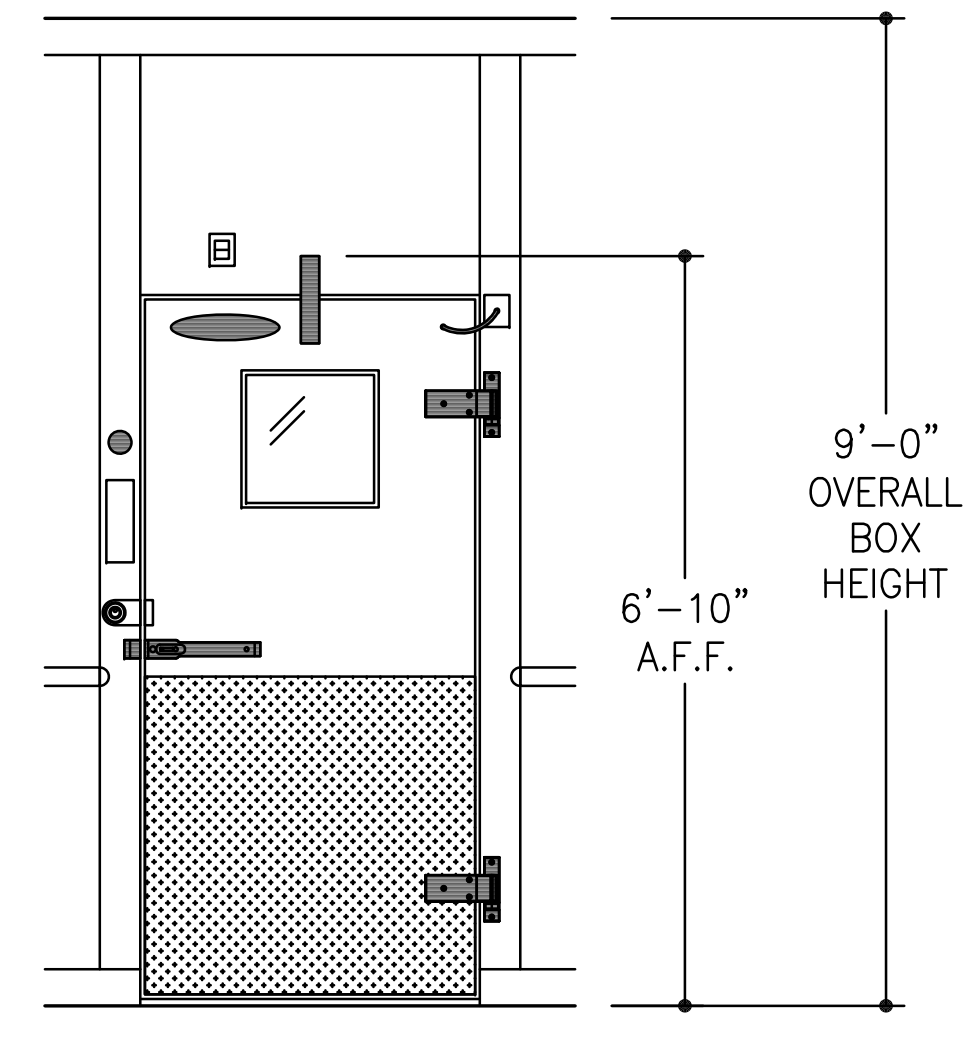
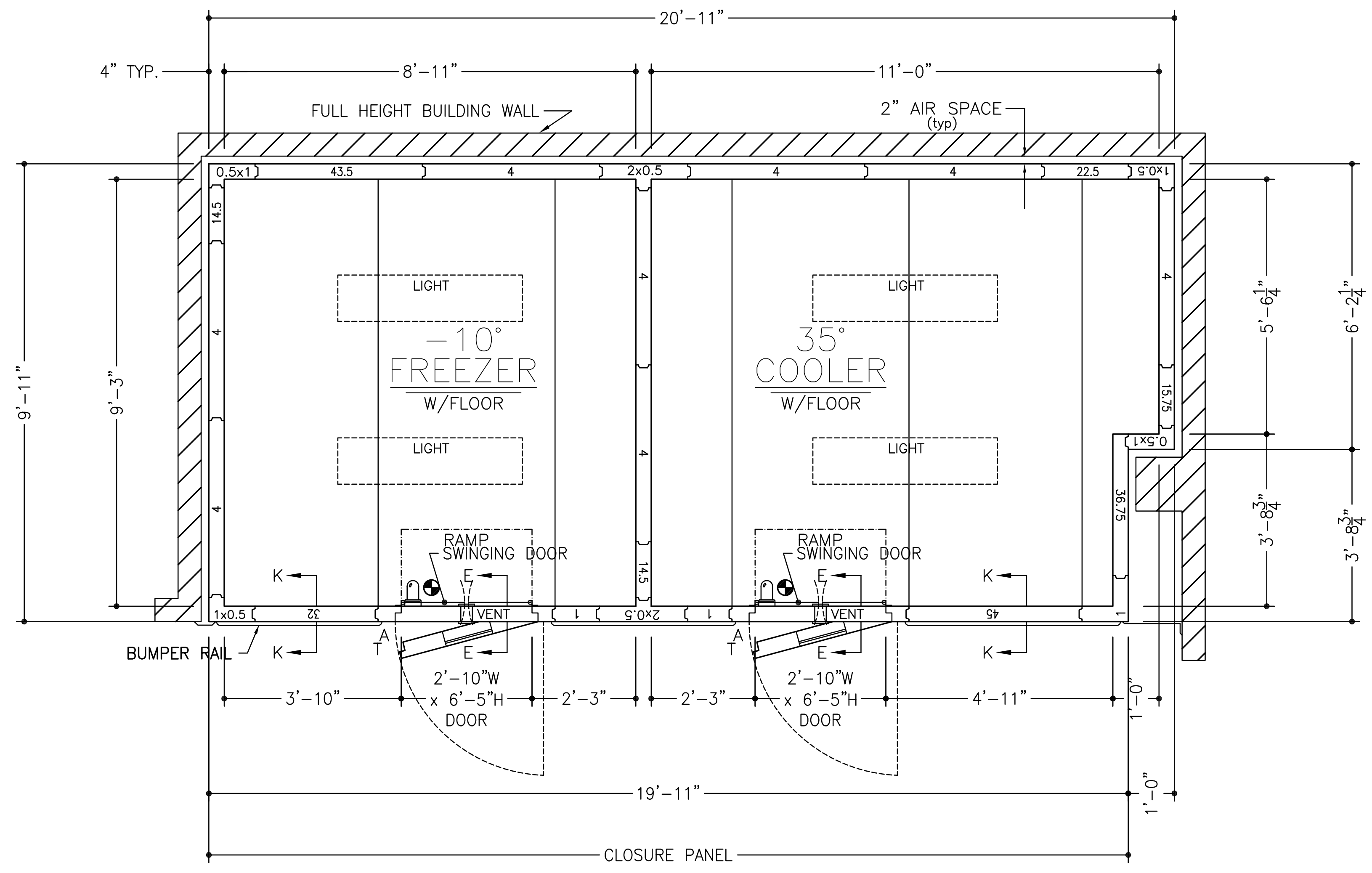


NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

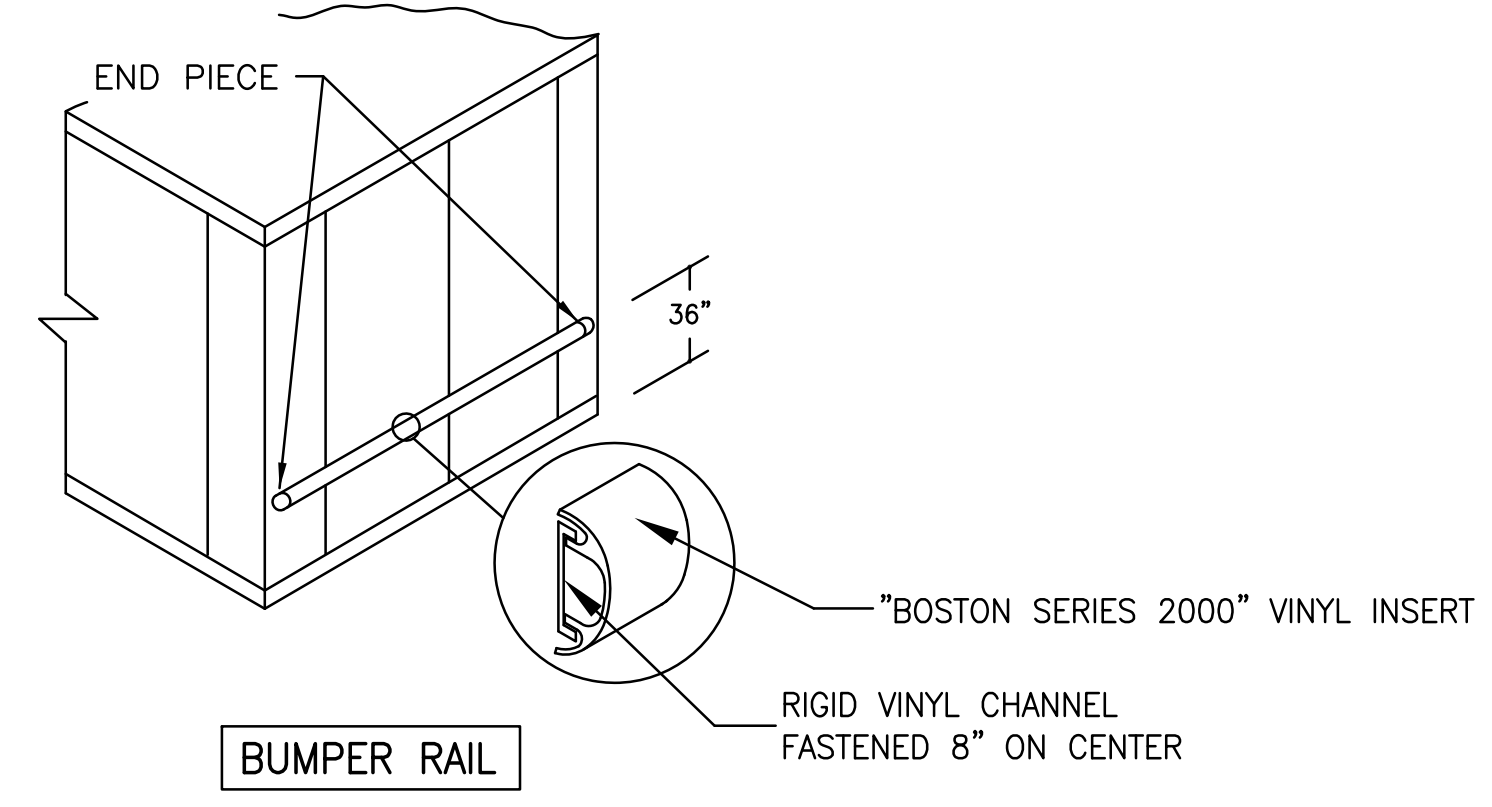
<p><b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000</p>	<p><b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320</p>	<p><b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990</p>
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<b>BAKERY KITCHEN 1</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>WALK-IN REFRIGERATOR/FREEZER DETAILS - #198</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-116</b>		OF SHEETS

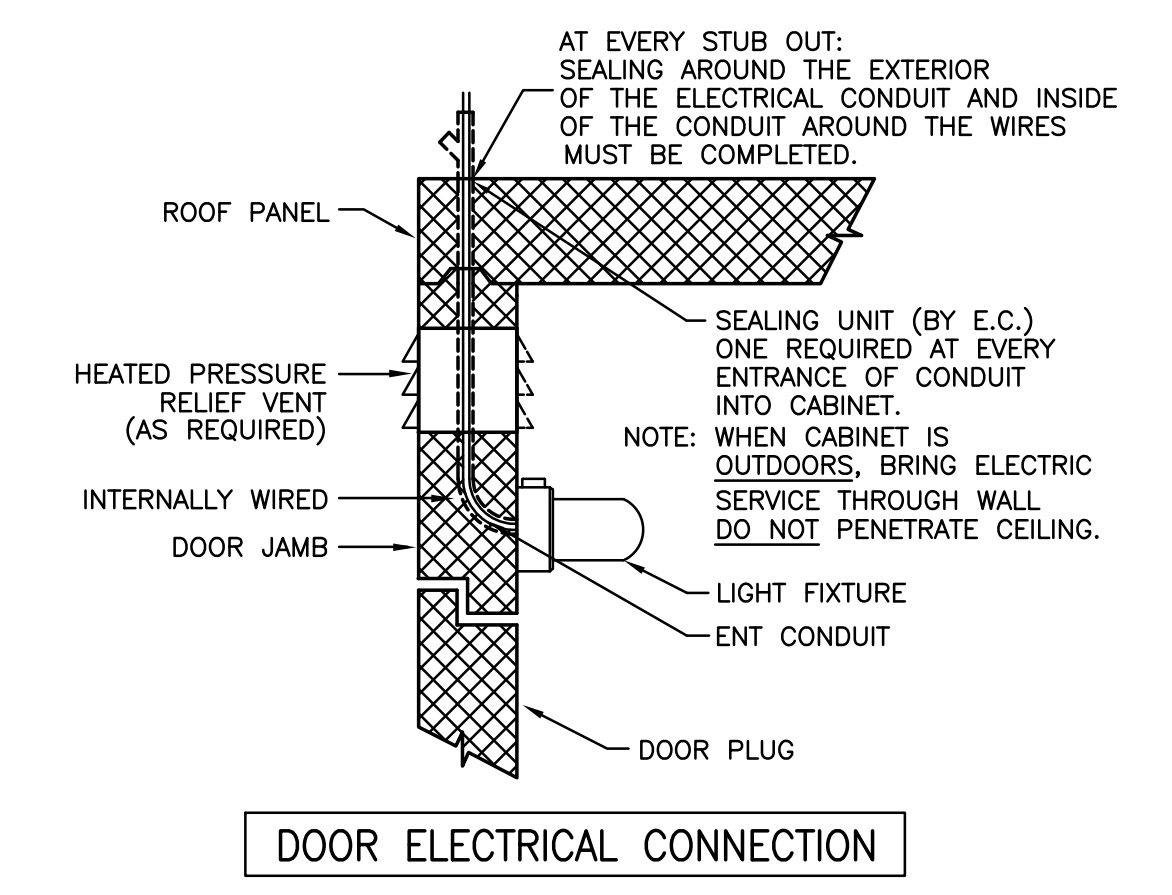
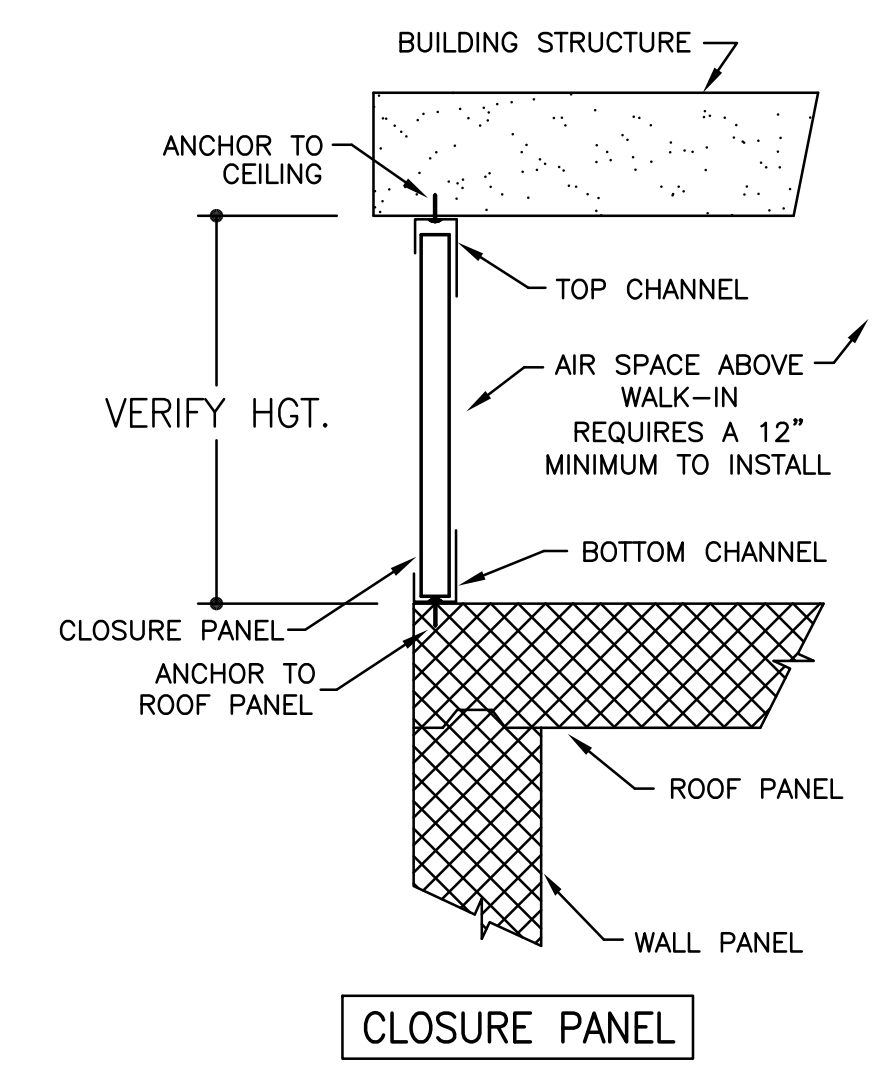
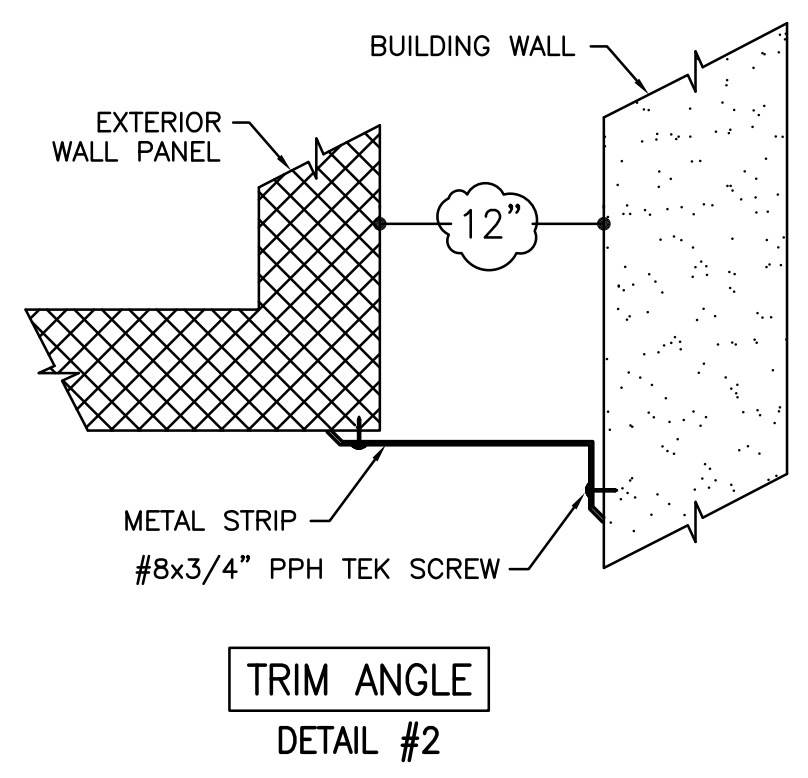
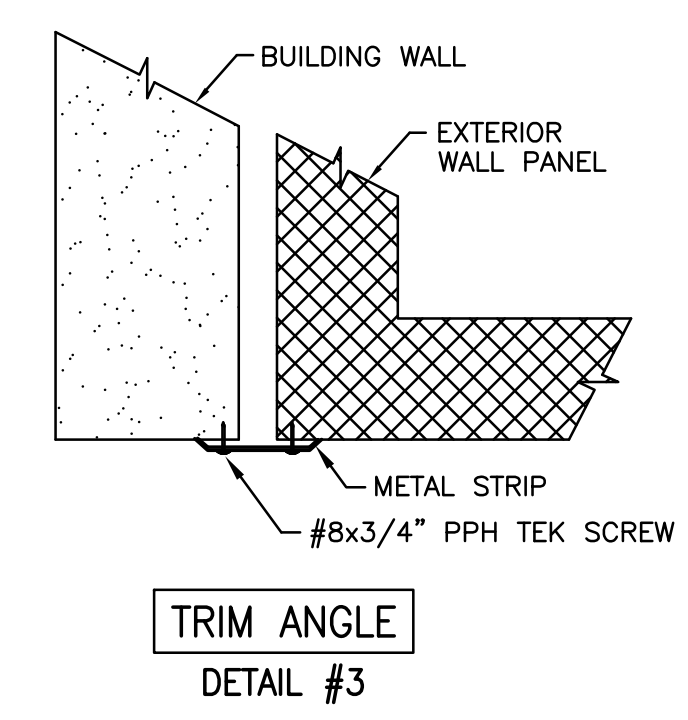
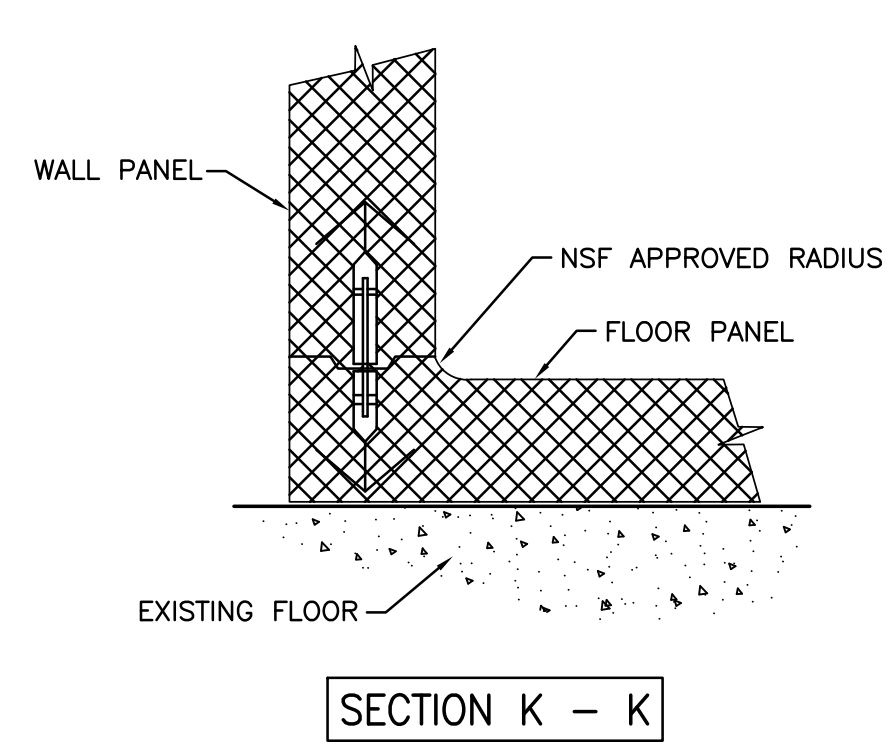
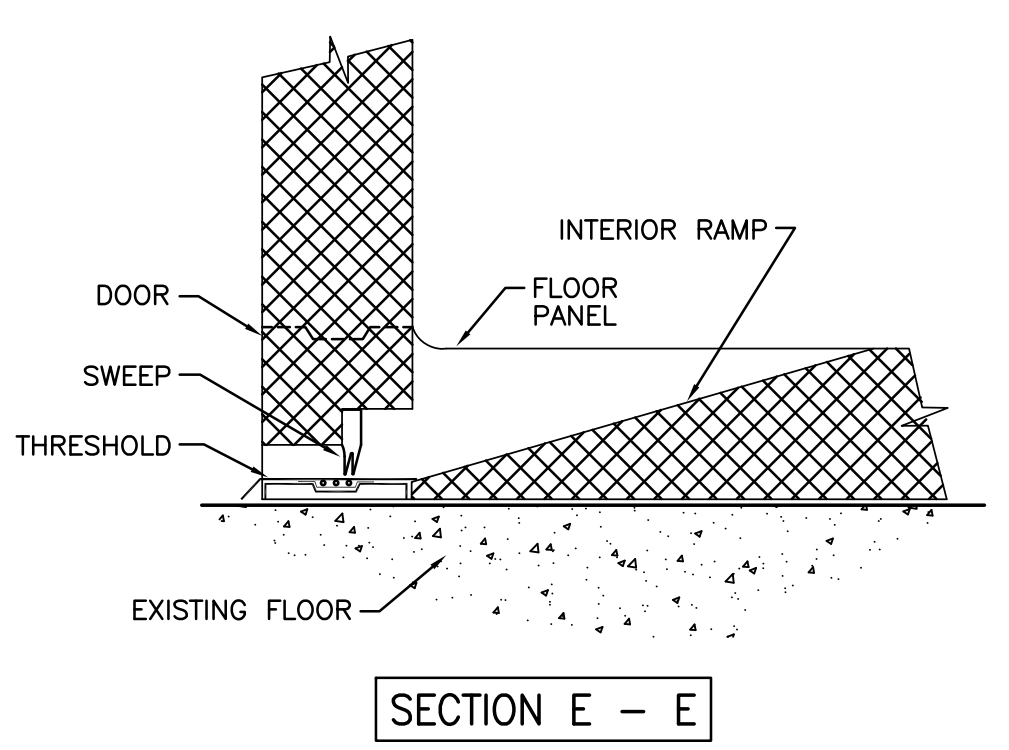


ITEM #294

- ~SPECIFICATIONS~**
- BOX HEIGHT:** FREEZER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)  
COOLER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)
  - CONSTRUCTION:** FOAMED IN PLACE  
NSF LISTED, STANDARD NO. 7
  - INSULATION:** 4" URETHANE, FINISHED PANEL  
UL CLASSIFIED FLAME SPREAD 20  
CORE SMOKE DEVELOPED 350
  - INSTALLATION:** INDOOR
  - FLOOR:** (SEE DETAILS)  
FREEZER - STANDARD W/INTERIOR RAMP  
COOLER - STANDARD W/INTERIOR RAMP
  - DOOR HARDWARE & ACCESSORIES:** EACH DOOR  
115v POWER TO BE STUBBED OUT CEILING PANEL  
DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK  
PROVISION & INSIDE RELEASE  
KASON #10944-5 DEADBOLT LOCK  
FRAME HEATER WIRE  
HYDRAULIC DOOR CLOSER  
TEMP. ALARM INCLUDING:  
DIRECT LINE VOLTAGE SYSTEM: 115Vac, 60Hz, 1Ph  
C OR F TEMPERATURE SELECTION  
5 DIGITS DIGITAL DISPLAY  
AIR PROBE & DOOR HEATER PROBE, NTC SENSOR  
LIGHT SWITCH & DOOR HEATER CONTROL  
PROGRAMMABLE AIR CAVITY HIGH & LOW TEMPERATURE ALARMS  
PROGRAMMABLE AUTOMATIC LIGHT SHUT OFF  
EXTERNAL ALARM RELAY  
(115vac, 60Hz, 1Ph 150W DIRECT POWER CONNECTION)  
INTEGRAL BUZZER ALARM  
KASON #1806 PLUG-IN LED VAPOR PROOF LIGHT FIXTURE  
W/11.5 WATT BULB, GLOBE & WIRE GUARD  
CCI CLEAR VU SWINGING DOOR  
2 - STD. CAM RISE HINGES  
2" FLUSH MOUNT DIAL THERMOMETER W/6" PROBE  
HEATED VISION WINDOW (14" x 14")  
1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH 1/8" & 0/8"  
KASON #1825 PRESSURE RELIEF VENT
  - ACCESSORIES:**  
2 - PCS. TRIM ANGLE  
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)  
4 - 48" (1810LX) LED LIGHT FIXTURES @ 39w EACH (SHIPPED LOOSE)  
RIGID VINYL EXTRUSION BUMPER RAIL (BOSTON SERIES 2000)  
W/VINYL INSERT @ 36" A.F.F.
  - METAL FINISHES:**  
INTERIOR WALLS & CEILING - .032 STUCCO ALUMINUM  
EXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
UNEXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
EXTERIOR FLOOR & CEILING - 26 GA STUCCO ACRYLUME  
INTERIOR FLOOR - DIAMOND PLATE
  - REFRIGERATION:** BY GC



ELECTRICAL DATA	
⊙	= POINT OF ELECTRICAL CONNECTIONS.
WALK-IN DOORS:	115v/1φ - 350w*

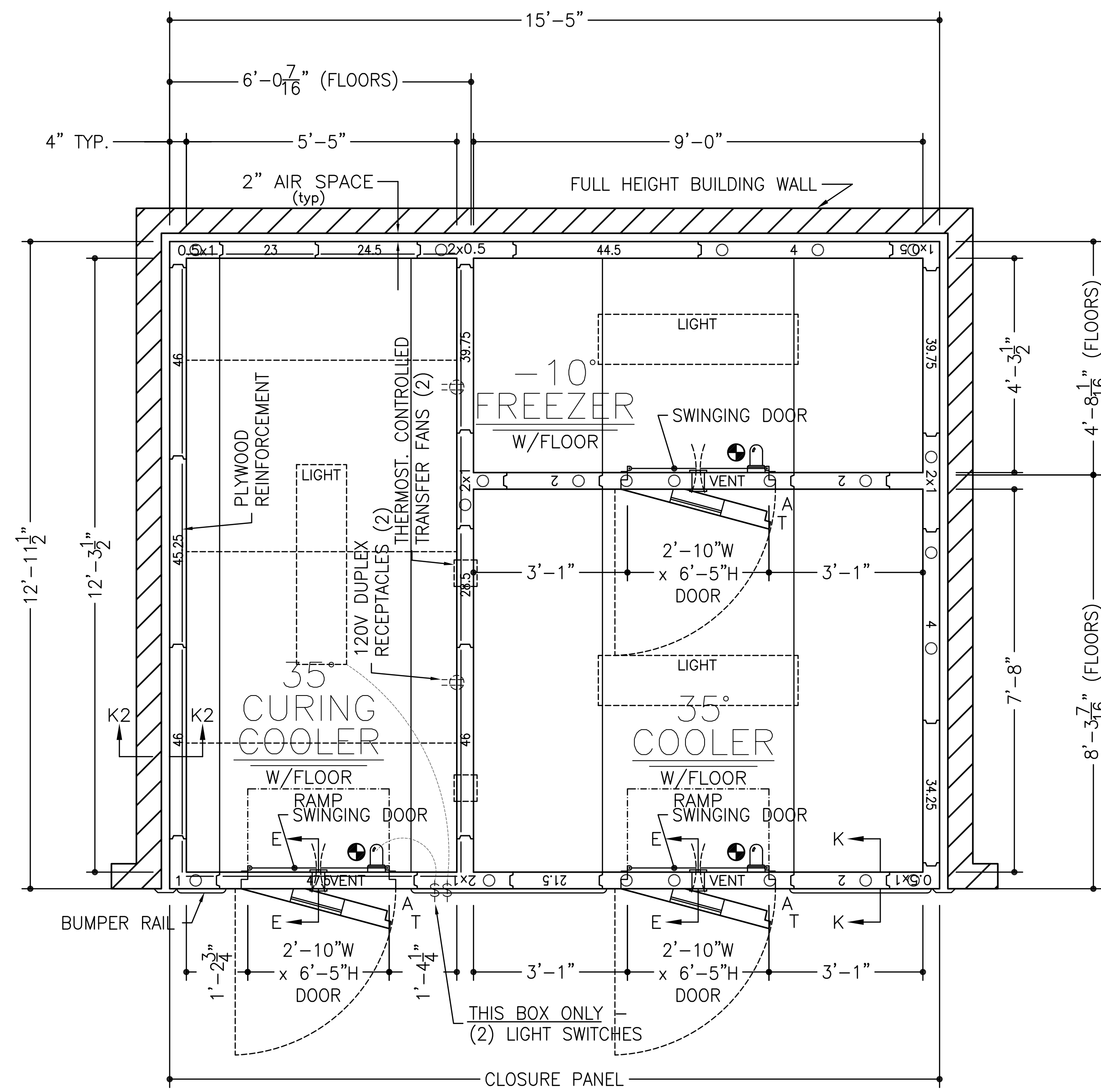


NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

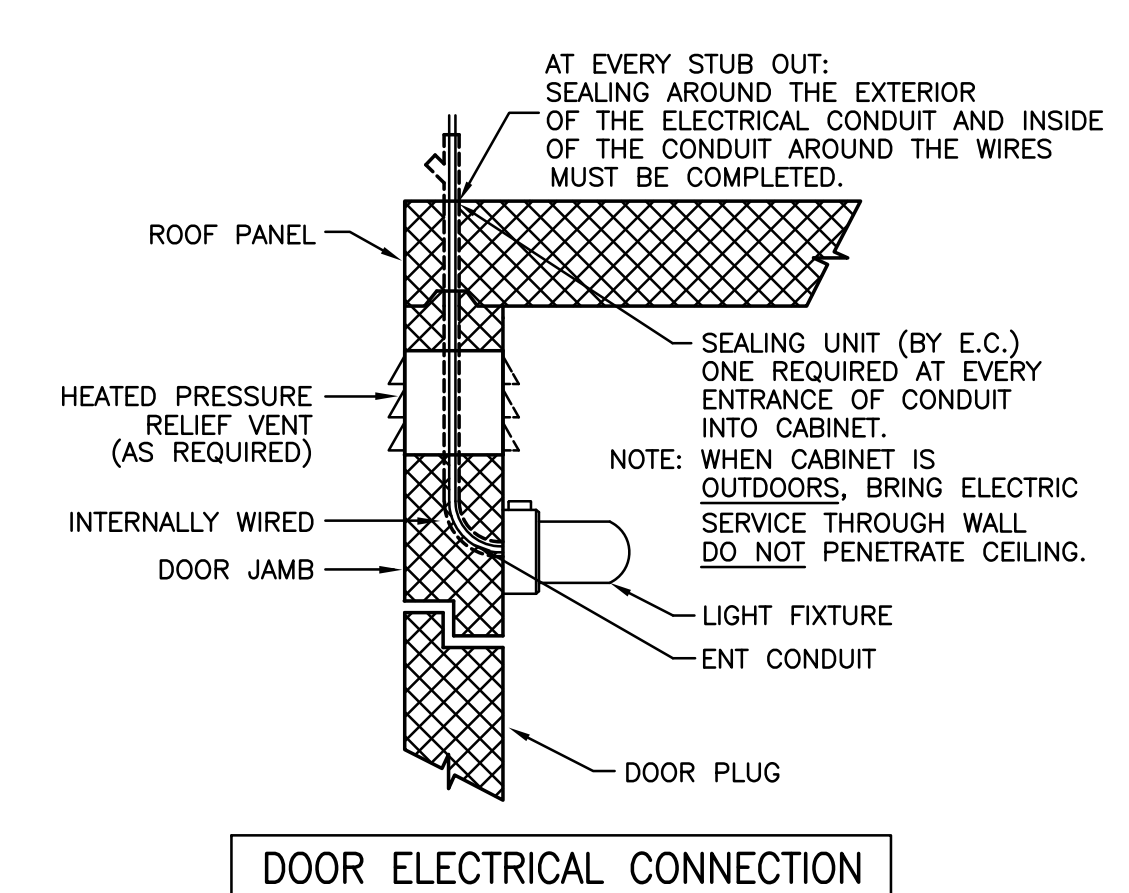
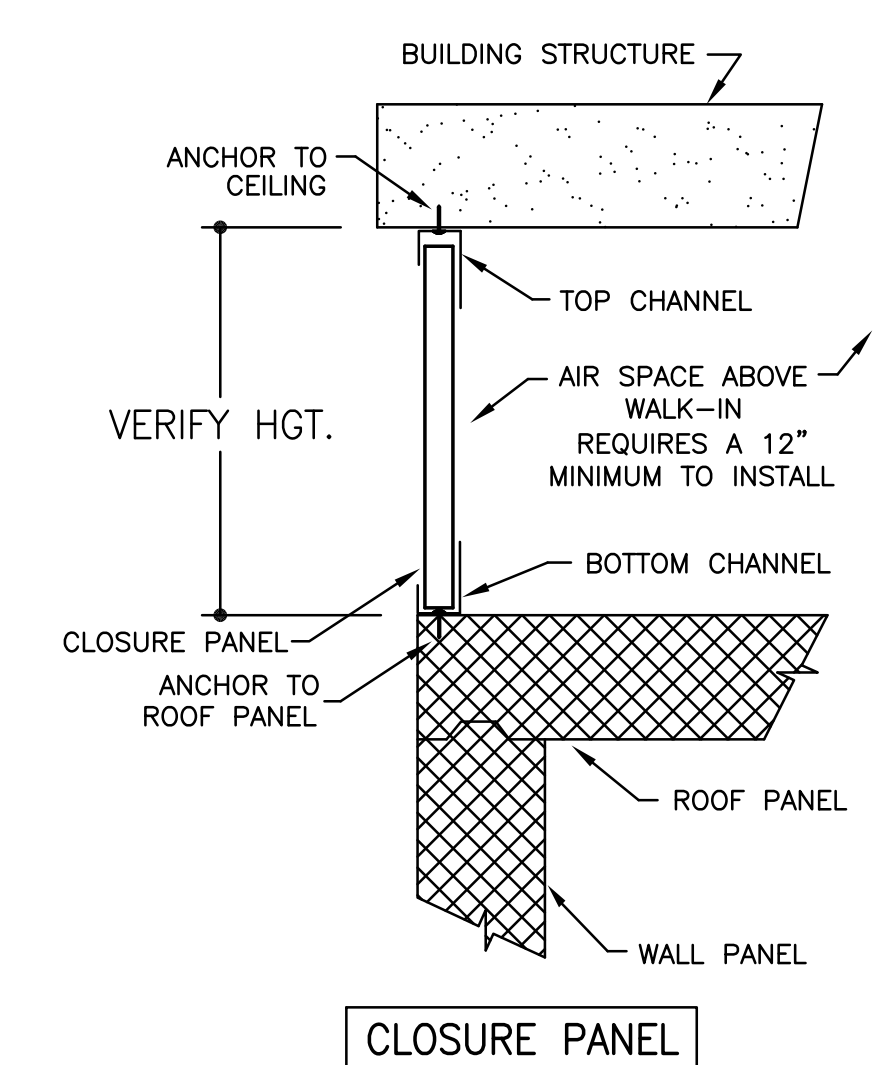
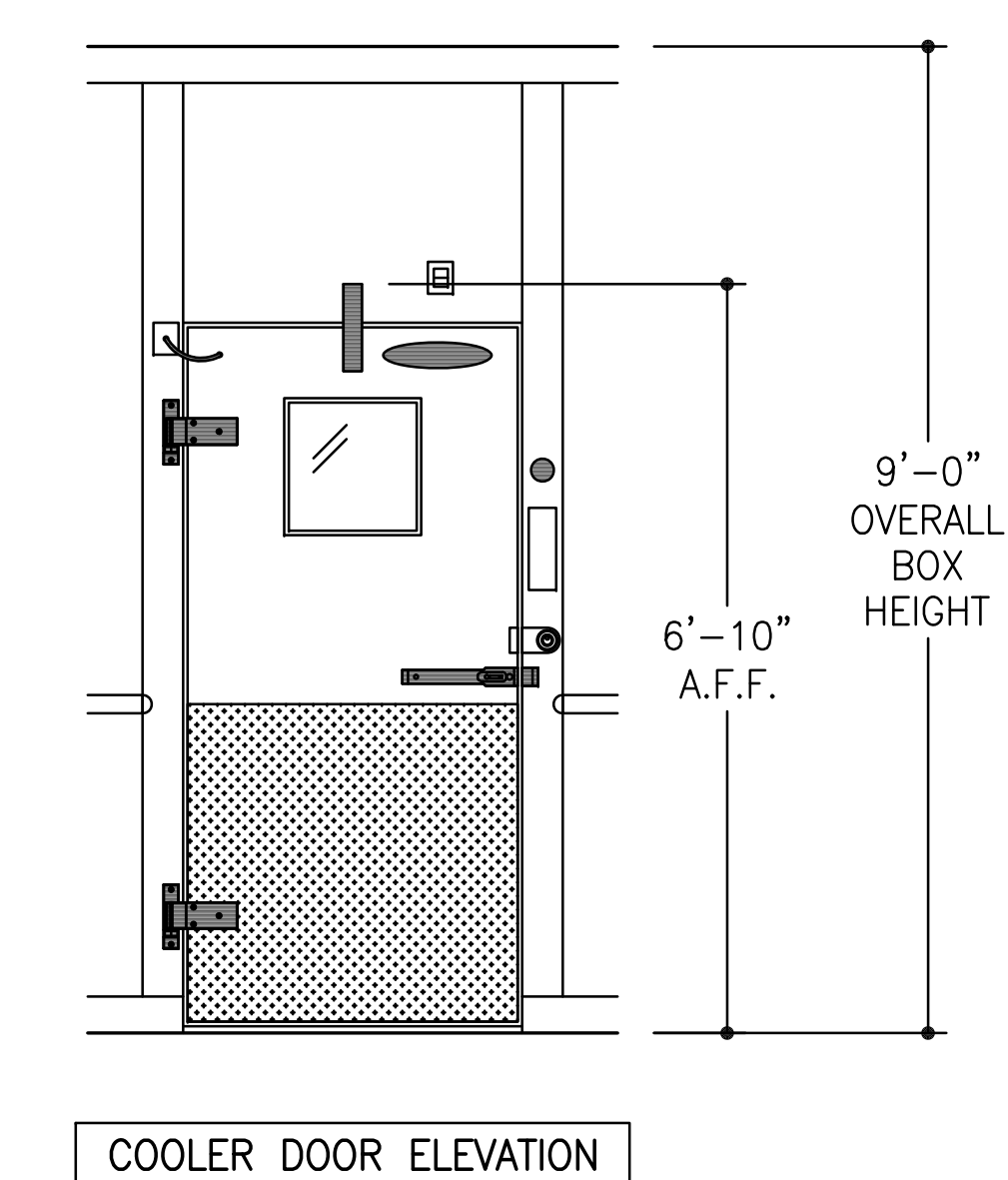
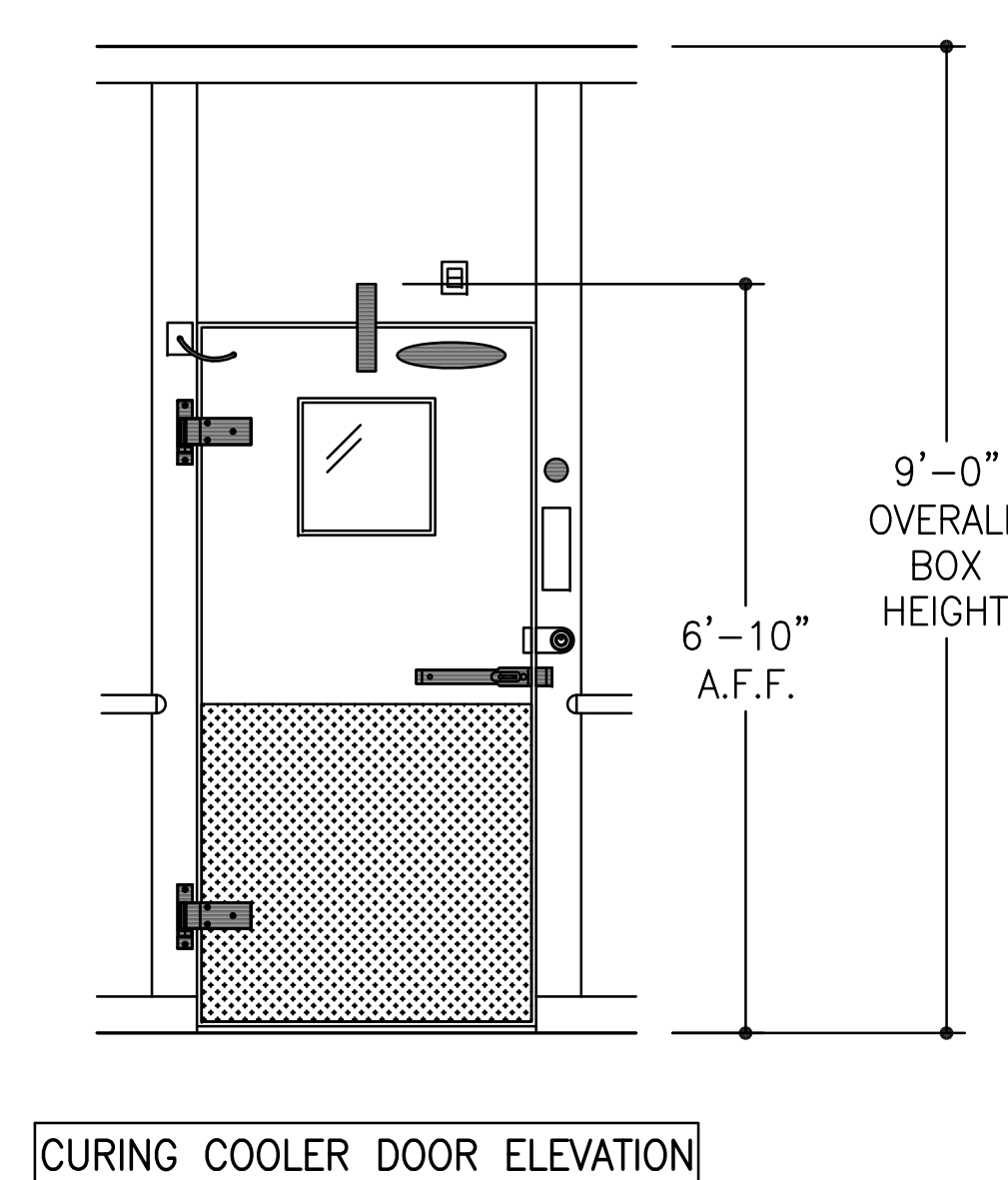
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

<p><b>dk</b> DEMONICA KEMPER ARCHITECTS 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000</p>	<p><b>KJW</b> KJWW ENGINEERING 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320</p>	<p><b>EFW</b> E.F. WHITNEY, INC. 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990</p>
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<b>BAKERY KITCHEN 2</b>		PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		DATE DEC. 12, 2014
<b>WALK-IN REFRIGERATOR/FREEZER DETAILS - #294</b>		SHEET NO. <b>FSE-117</b>
<b>CITY CENTER CAMPUS</b>		OF SHEETS
<b>JOLIET JUNIOR COLLEGE</b>		

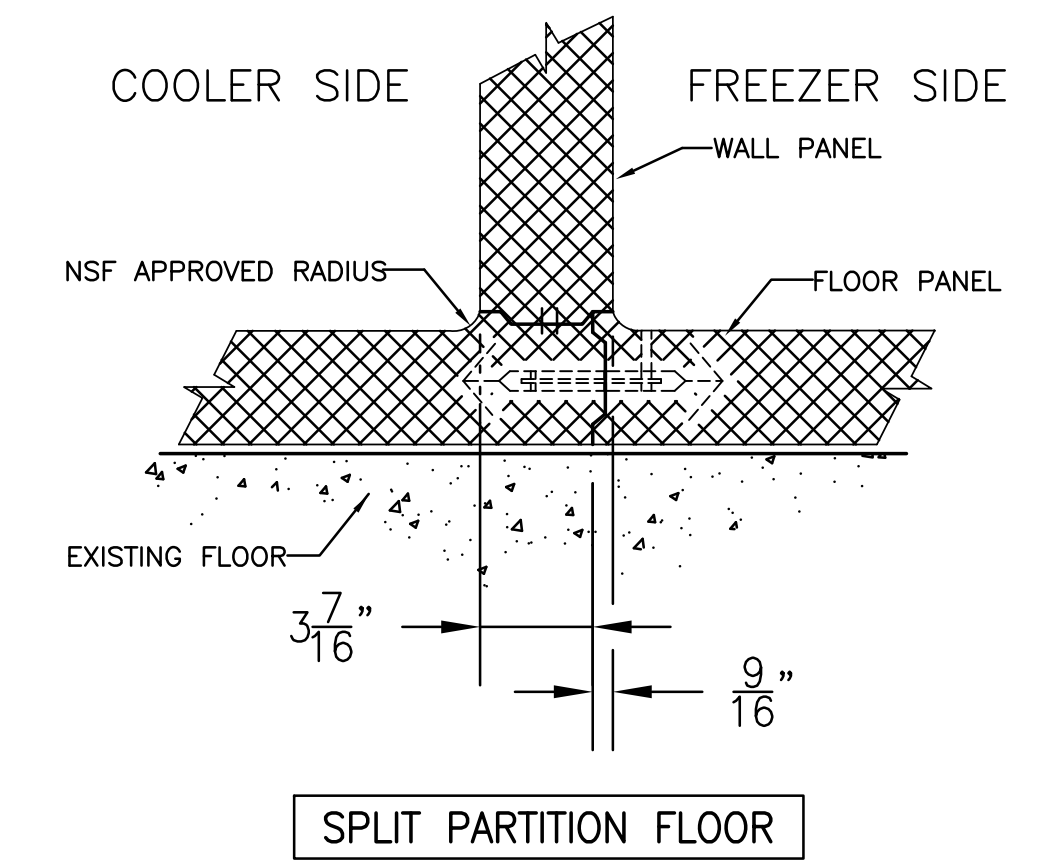
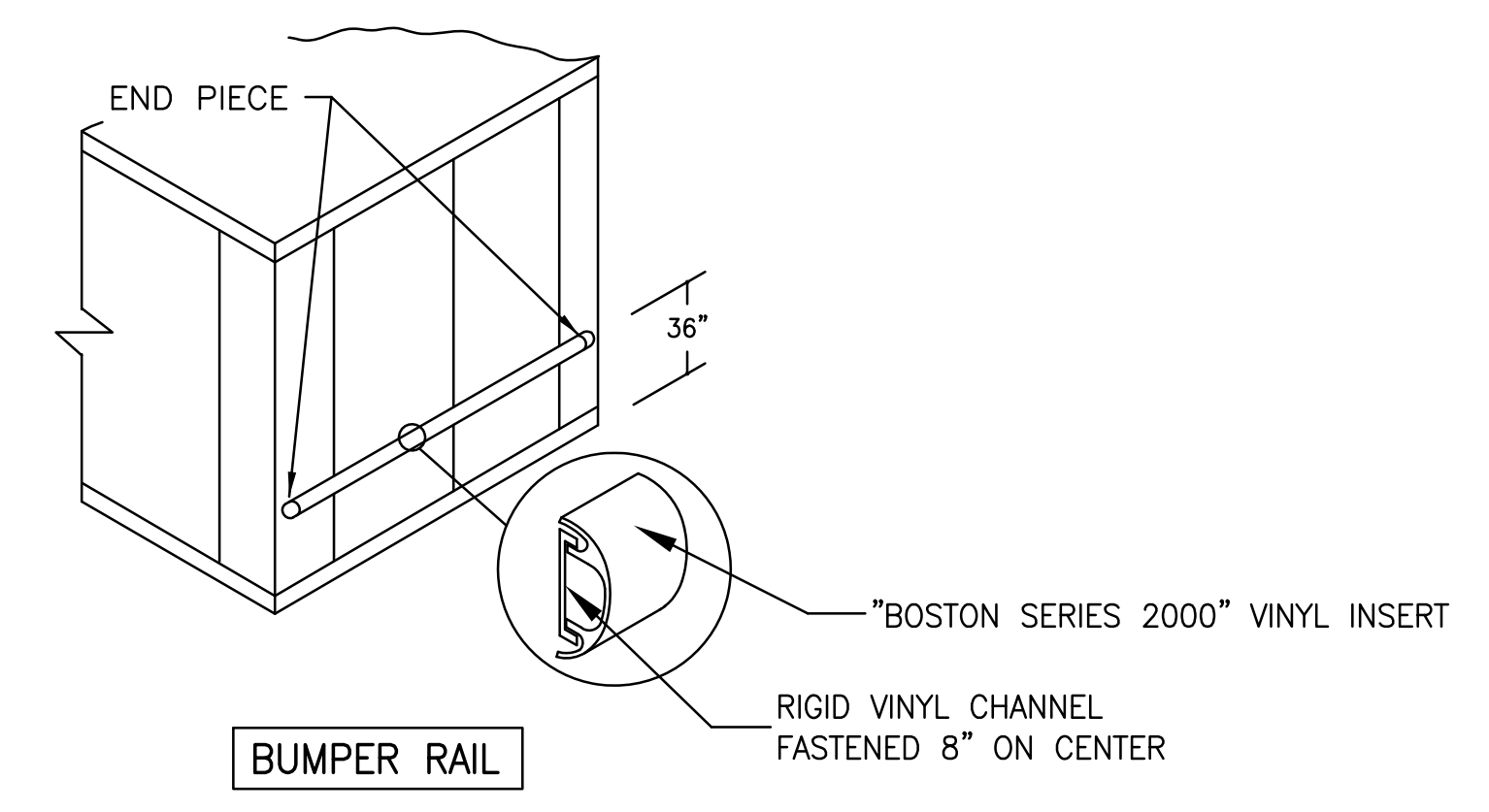
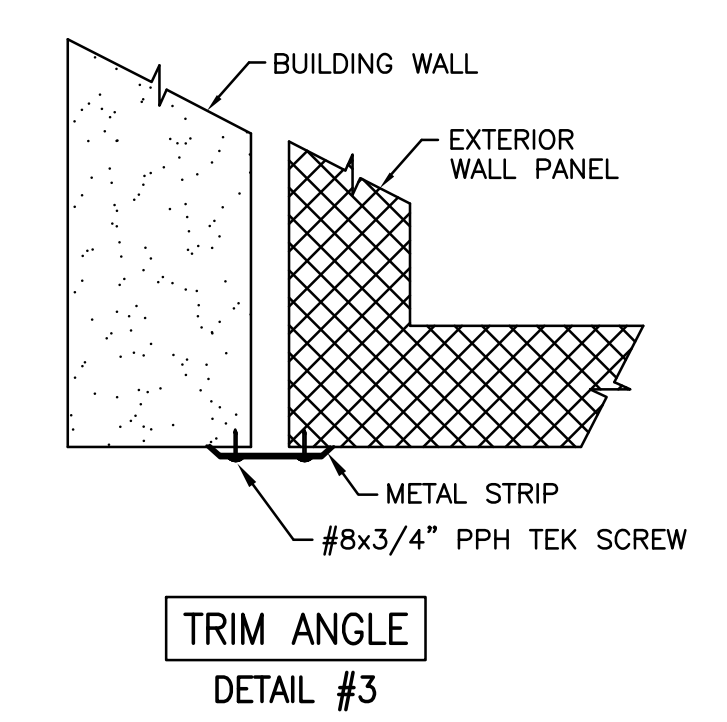
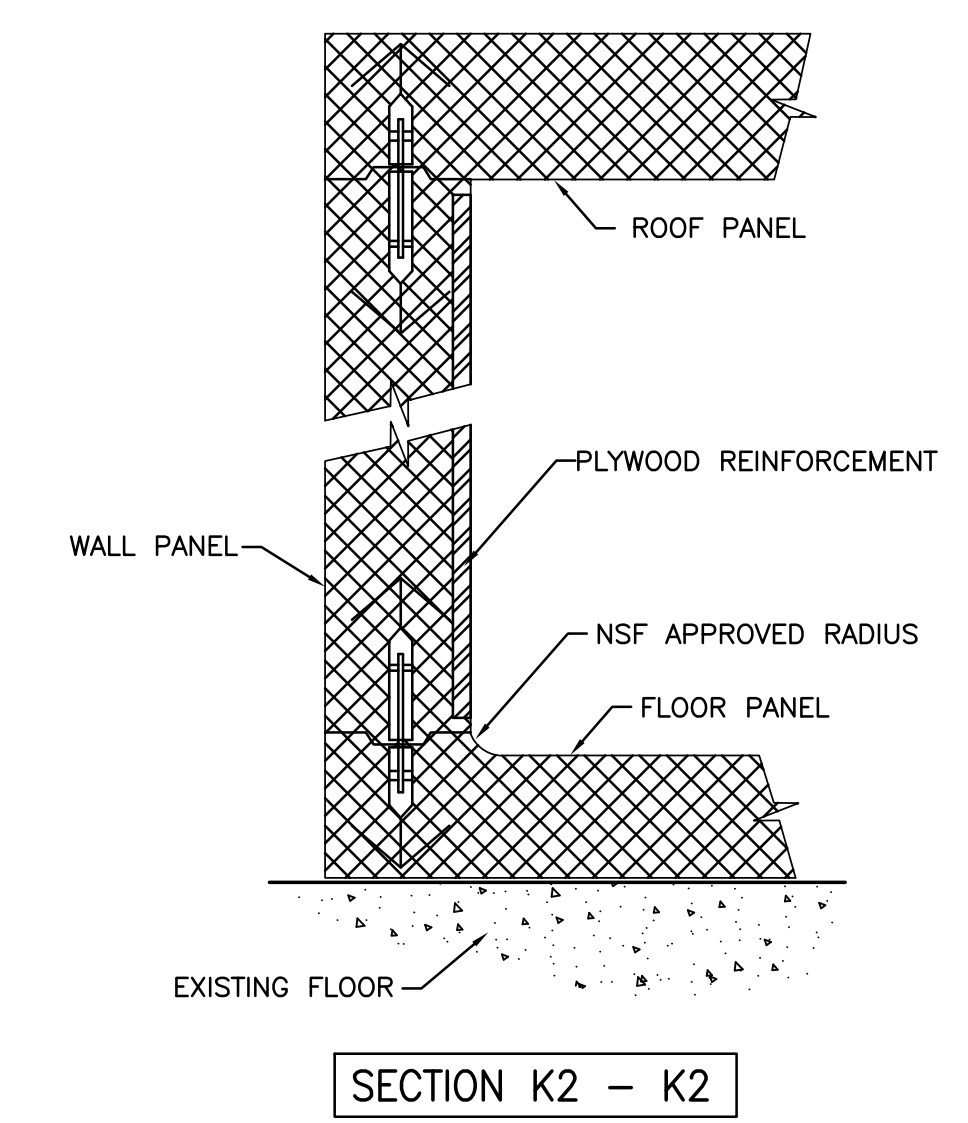
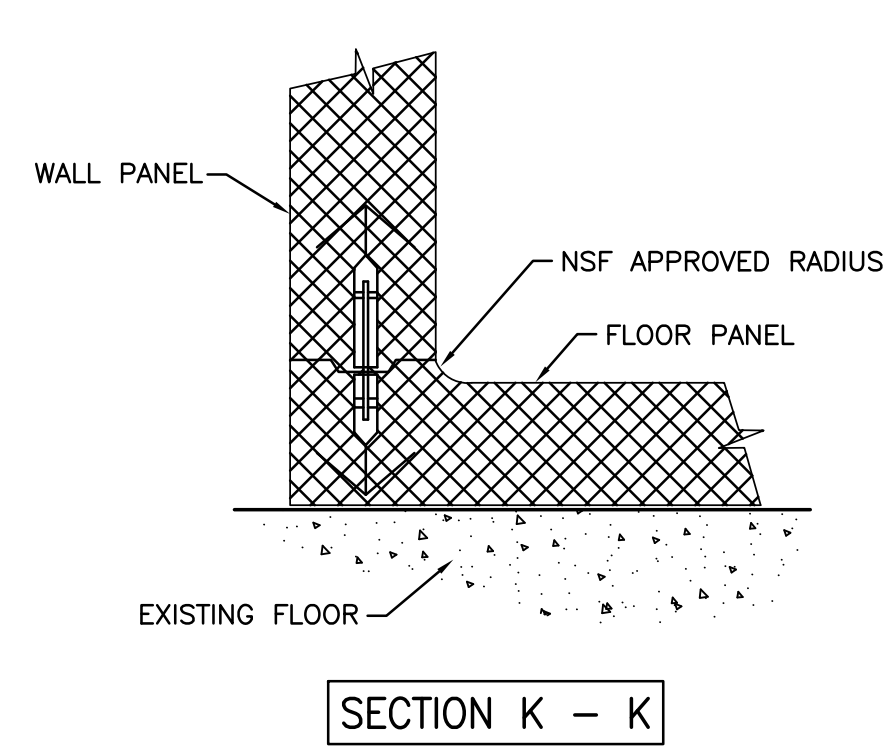
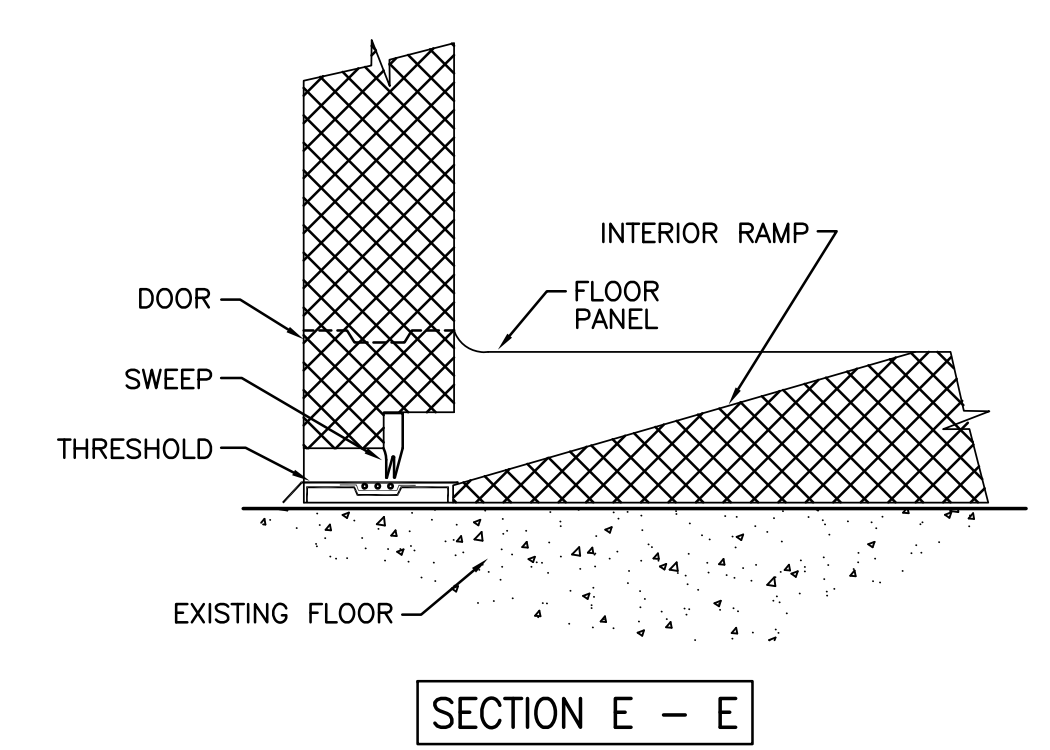


ITEM #401 CURING ROOMS



- ~SPECIFICATIONS~
- BOX HEIGHT: FREEZER - 9'-0" OVERALL (8'-4 1/4" INTERIOR), COOLER - 9'-0" OVERALL (8'-4 1/4" INTERIOR), CURING COOLER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)
  - CONSTRUCTION: FOAMED IN PLACE, NSF LISTED, STANDARD NO. 7
  - INSULATION: 4" URETHANE, FINISHED PANEL, UL CLASSIFIED FLAME SPREAD 20, CORE SMOKE DEVELOPED 350
  - INSTALLATION: INDOOR
  - FLOOR: FREEZER - STANDARD, COOLER - STANDARD W/INTERIOR RAMP, CURING COOLER - STANDARD W/INTERIOR RAMP
  - DOOR HARDWARE & ACCESSORIES: 115v POWER TO BE STUBBED OUT CEILING PANEL, DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK, PROVISION & INSIDE RELEASE (EXTERIOR DOORS ONLY), KASON #10944-5 DEADBOLT LOCK, FRAME HEATER WIRE, HYDRAULIC DOOR CLOSER
  - TEMP. ALARM INCLUDING: DIRECT LINE VOLTAGE SYSTEM: 115vac, 60Hz, 1Ph, C OR F TEMPERATURE SELECTION, 5 DIGITS DIGITAL DISPLAY, AIR PROBE & DOOR HEATER PROBE, NTC SENSOR, LIGHT SWITCH & DOOR HEATER CONTROL, PROGRAMMABLE AIR CAVITY HIGH & LOW TEMPERATURE ALARMS, PROGRAMMABLE AUTOMATIC LIGHT SHUT OFF, EXTERNAL ALARM RELAY (115vac, 60Hz, 1Ph 150W DIRECT POWER CONNECTION), INTEGRAL BUZZER ALARM, KASON #1806 PLUG-IN LED VAPOR PROOF LIGHT FIXTURE W/11.5 WATT BULB, GLOBE & WIRE GUARD, CCI CLEAR VU SWINGING DOOR, 2 - STD. CAM RISE HINGES, 2" FLUSH MOUNT DIAL THERMOMETER W/6" PROBE, HEATED VISION WINDOW (14" x 14"), 1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH I/S & O/S, KASON #1825 PRESSURE RELIEF VENT
  - ACCESSORIES: 2 - PCS. TRIM ANGLE, CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN), 3 - 48" (1810LX) LED LIGHT FIXTURES @ 39w EACH (SHIPPED LOOSE), RIGID VINYL EXTRUSION BUMPER RAIL (BOSTON SERIES 2000) W/VINYL INSERT @ 36" A.F.F., ROOF STIFFENERS (ALL ROOFS OVER PARTITION WALL), 3/4" PLYWOOD REINFORCEMENT IN WALLS ~ FULL HEIGHT (PER PLAN), 2 - THERMOSTATICALLY CONTROLLED TRANSFER FANS, 2 - INTERIOR 120V DUPLEX RECEPTACLES
  - METAL FINISHES: INTERIOR WALLS & CEILING - .032 STUCCO ALUMINUM, EXPOSED EXTERIOR - .032 STUCCO ALUMINUM, EXTERIOR FLOOR & CEILING - 26 GA STUCCO ACRYLUME, INTERIOR FLOOR - DIAMOND PLATE
  - REFRIGERATION: BY GC

ELECTRICAL DATA	
⊕	= POINT OF ELECTRICAL CONNECTIONS.
WALK-IN DOORS:	115v/1ϕ - 350w*



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

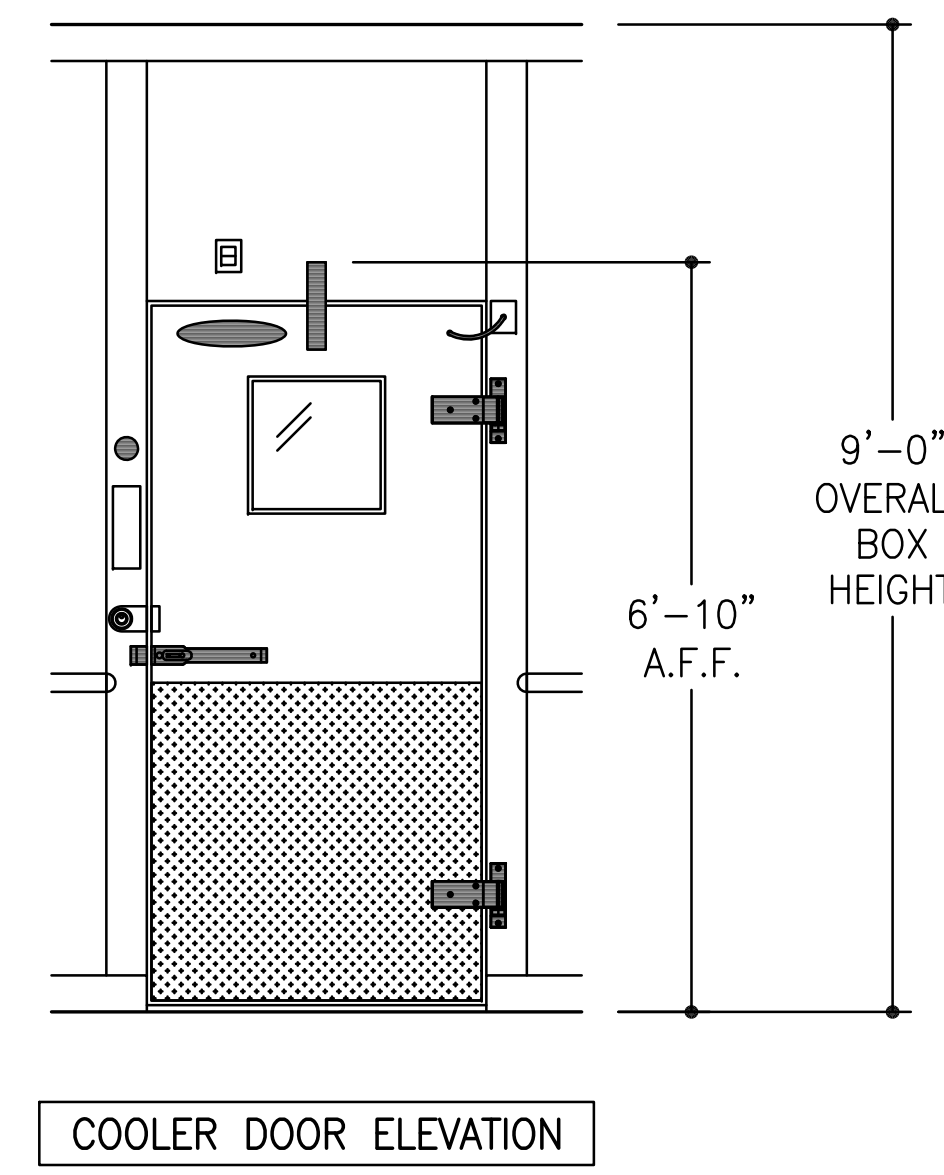
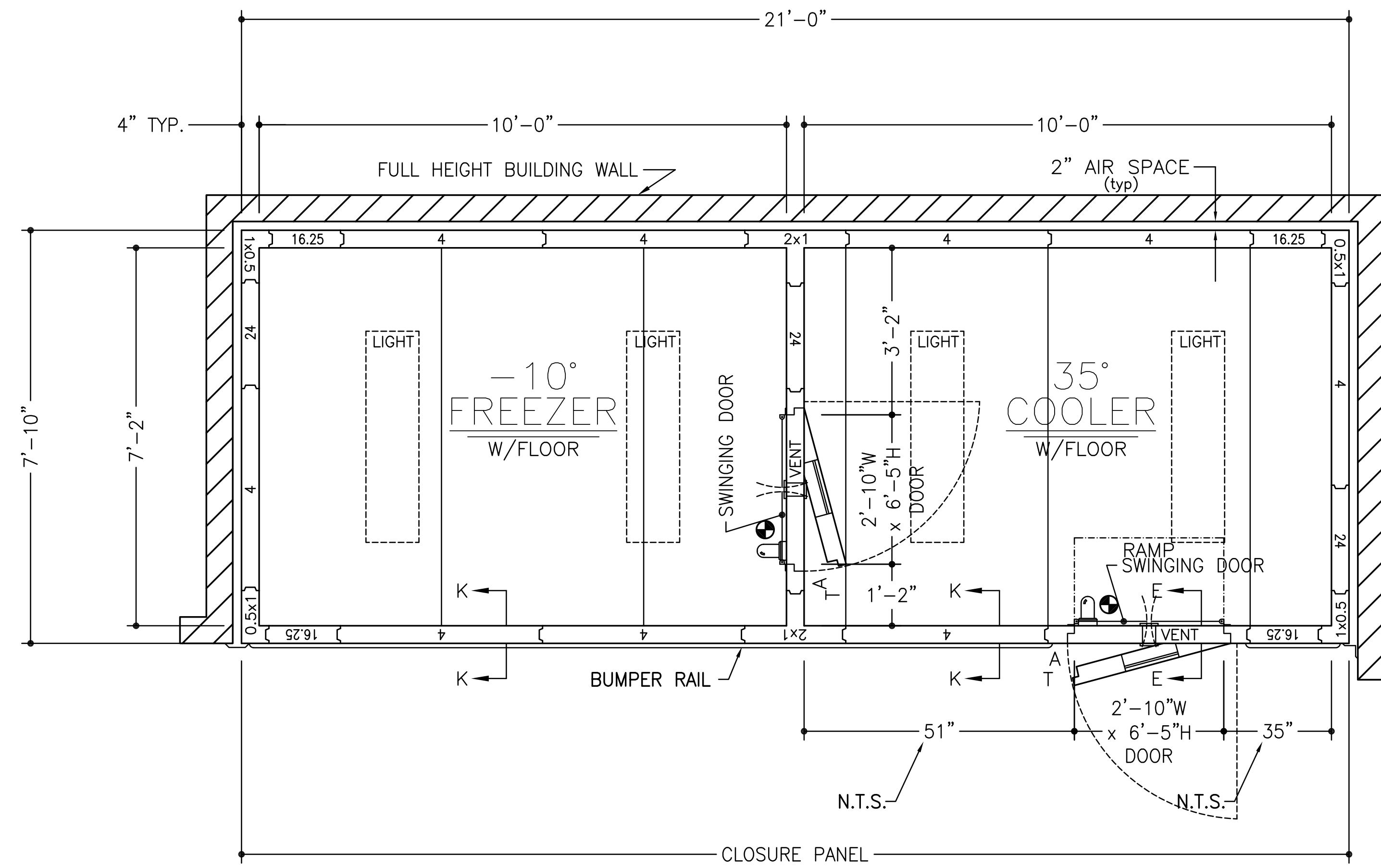
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED	OFF.
XXX	XXX	
TRACED	APPROVED	
XXX	XXX	
CHECKED	APPROVED	
XXX	EFW	

<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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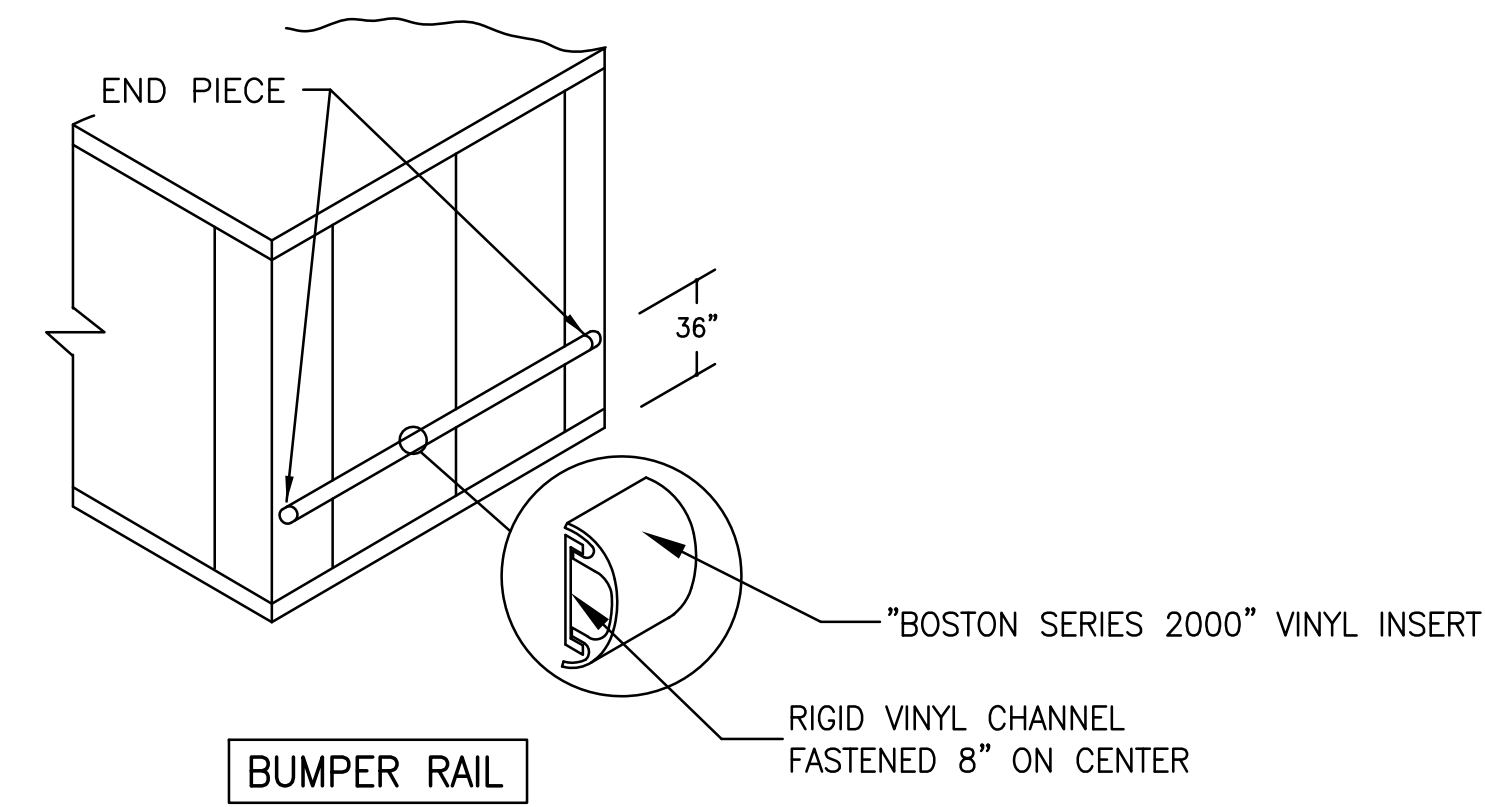
<b>GARDE MANGER</b>	
<b>ISSUED FOR CONSTRUCTION</b>	
<b>WALK-IN REFRIGERATOR/FREEZER DETAILS - #401</b>	
<b>CITY CENTER CAMPUS</b>	PROJECT NO. CDB 810-048-023
<b>JOLIET JUNIOR COLLEGE</b>	DATE DEC. 12, 2014
<b>FSE-118</b>	SHEET NO.
OF SHEETS	



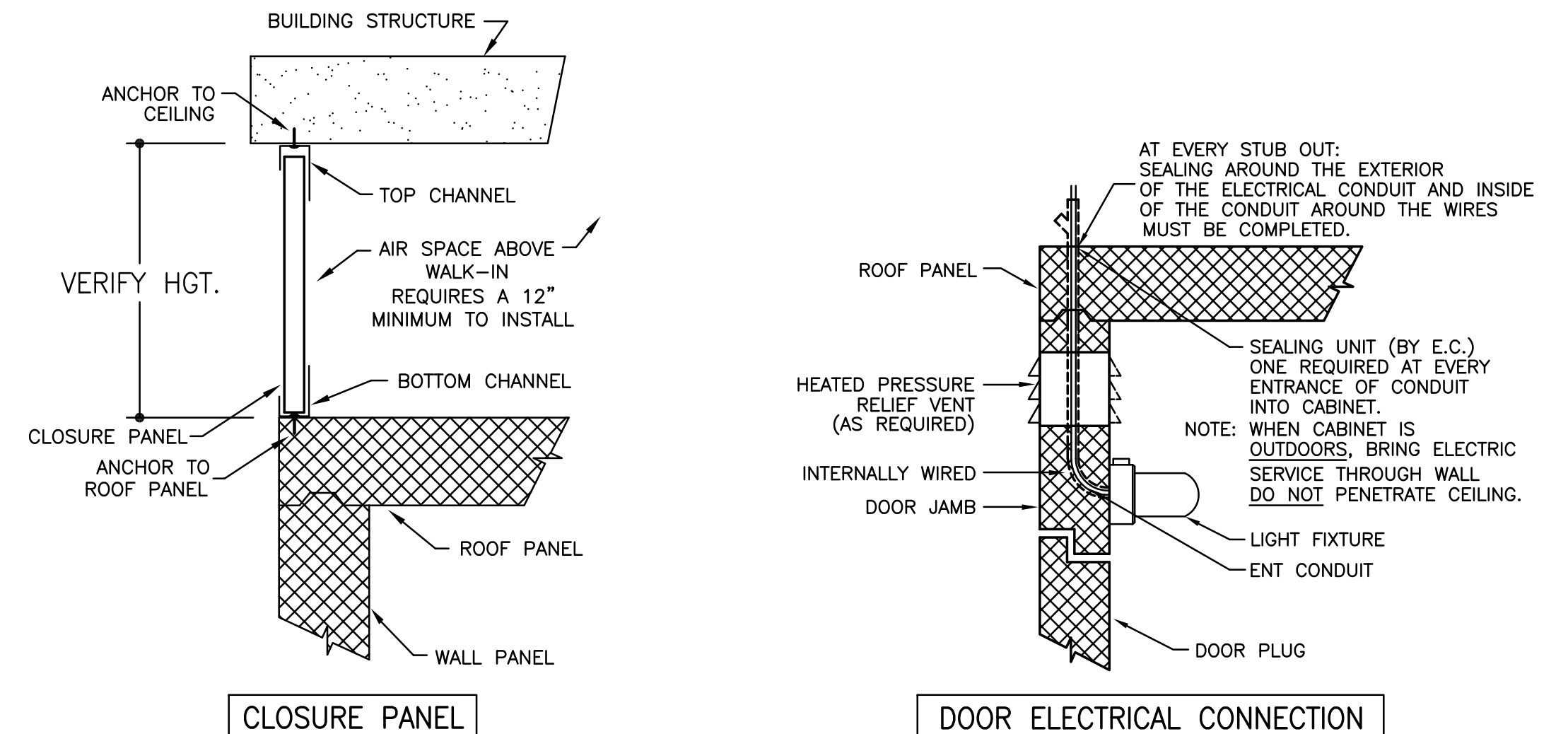
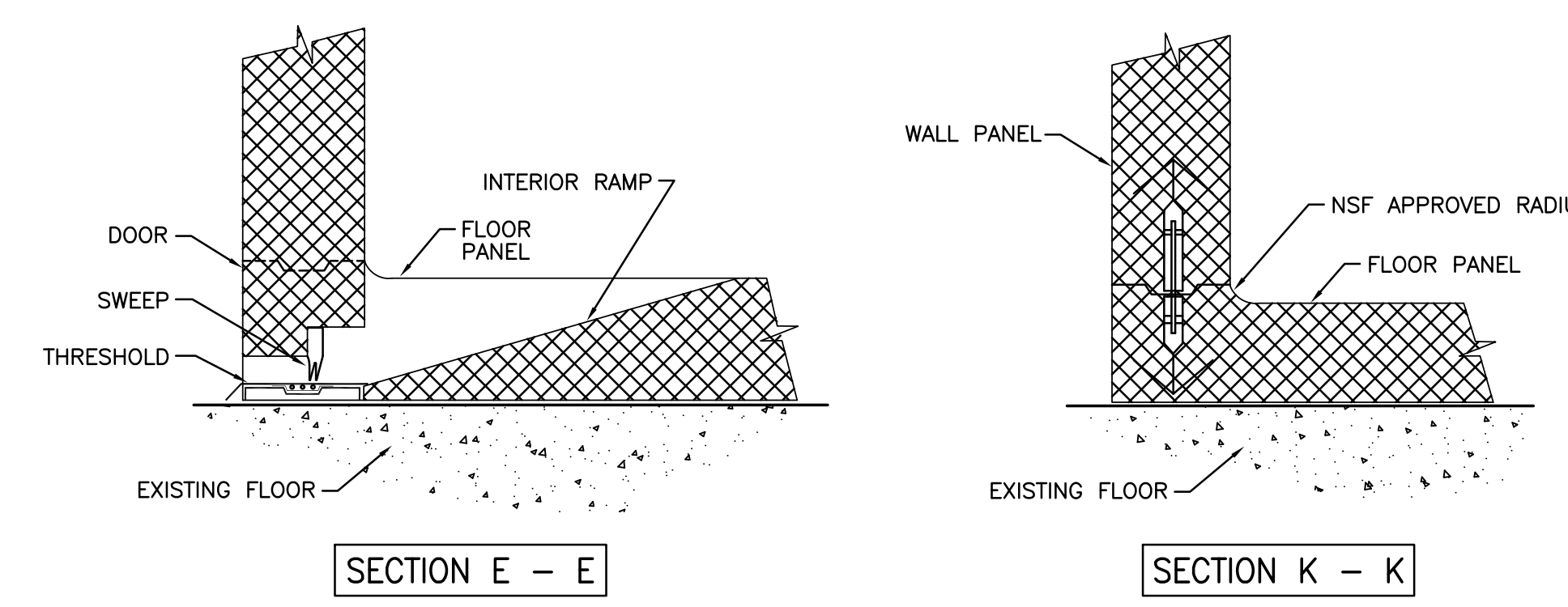
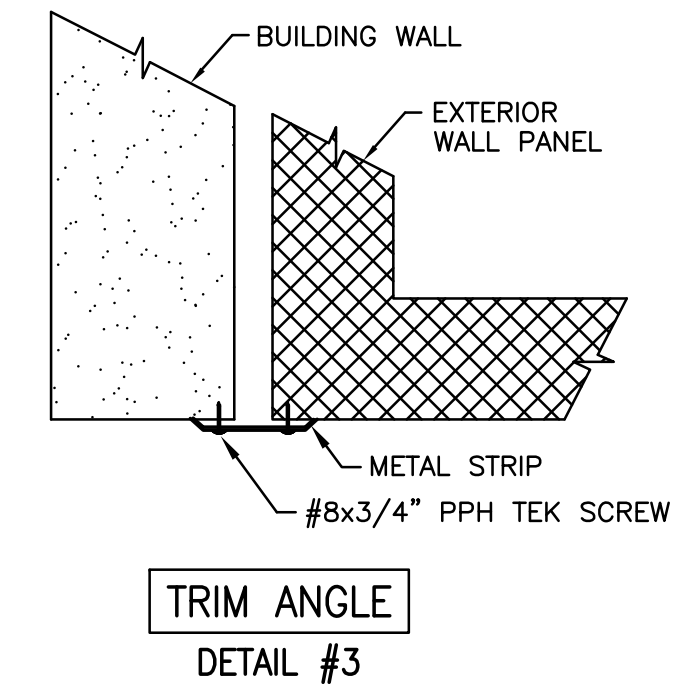


ITEM #471

- ~SPECIFICATIONS~
- BOX HEIGHT:**  
 FREEZER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)  
 COOLER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)
- CONSTRUCTION:**  
 FOAMED IN PLACE  
 NSF LISTED, STANDARD NO. 7
- INSULATION:**  
 4" URETHANE, FINISHED PANEL  
 UL CLASSIFIED FLAME SPREAD 20  
 CORE SMOKE DEVELOPED 350
- INSTALLATION:**  
 INDOOR
- FLOOR:**  
 FREEZER - STANDARD  
 COOLER - STANDARD W/INTERIOR RAMP
- DOOR HARDWARE & ACCESSORIES:**  
 EACH DOOR  
 115v POWER TO BE STUBBED OUT CEILING PANEL  
 DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK  
 PROVISION & INSIDE RELEASE (EXTERIOR DOOR ONLY)  
 KASON #10944-5 DEADBOLT LOCK  
 FRAME HEATER WIRE  
 HYDRAULIC DOOR CLOSER  
 TEMP. ALARM INCLUDING:  
 DIRECT LINE VOLTAGE SYSTEM: 115Vac, 60Hz, 1Ph  
 C OR F TEMPERATURE SELECTION  
 5 DIGITS DIGITAL DISPLAY  
 AIR PROBE & DOOR HEATER PROBE, NTC SENSOR  
 LIGHT SWITCH & DOOR HEATER CONTROL  
 PROGRAMMABLE AIR CAVITY HIGH & LOW TEMPERATURE ALARMS  
 PROGRAMMABLE AUTOMATIC LIGHT SHUT OFF  
 EXTERNAL ALARM RELAY  
 (115Vac, 60Hz, 1Ph 150W DIRECT POWER CONNECTION)  
 INTEGRAL BUZZER ALARM  
 KASON #1806 PLUG-IN LED VAPOR PROOF LIGHT FIXTURE  
 W/11.5 WATT BULB, GLOBE & WIRE GUARD  
 CCI CLEAR-VU SWINGING DOOR  
 2 - STD. CAM RISE HINGES  
 2" FLUSH MOUNT DIAL THERMOMETER W/6" PROBE  
 HEATED VISION WINDOW (14" x 14")  
 1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH 1/8" & 0/5  
 KASON #1825 PRESSURE RELIEF VENT
- ACCESSORIES:**  
 2 - PCS. TRIM ANGLE  
 CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)  
 4 - 48" (1810X) LED LIGHT FIXTURES @ 39w EACH (SHIPPED LOOSE)  
 RIGID VINYL EXTRUSION BUMPER RAIL (BOSTON SERIES 2000)  
 W/VINYL INSERT @ 36" A.F.F.
- METAL FINISHES:**  
 INTERIOR WALLS & CEILING - .032 STUCCO ALUMINUM  
 EXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
 UNEXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
 EXTERIOR FLOOR & CEILING - 26 GA STUCCO ACRYLUM  
 DIAMOND PLATE
- REFRIGERATION:**  
 BY GC



ELECTRICAL DATA	
⊕	= POINT OF ELECTRICAL CONNECTIONS.
WALK-IN DOORS:	115v/1φ - 350w*

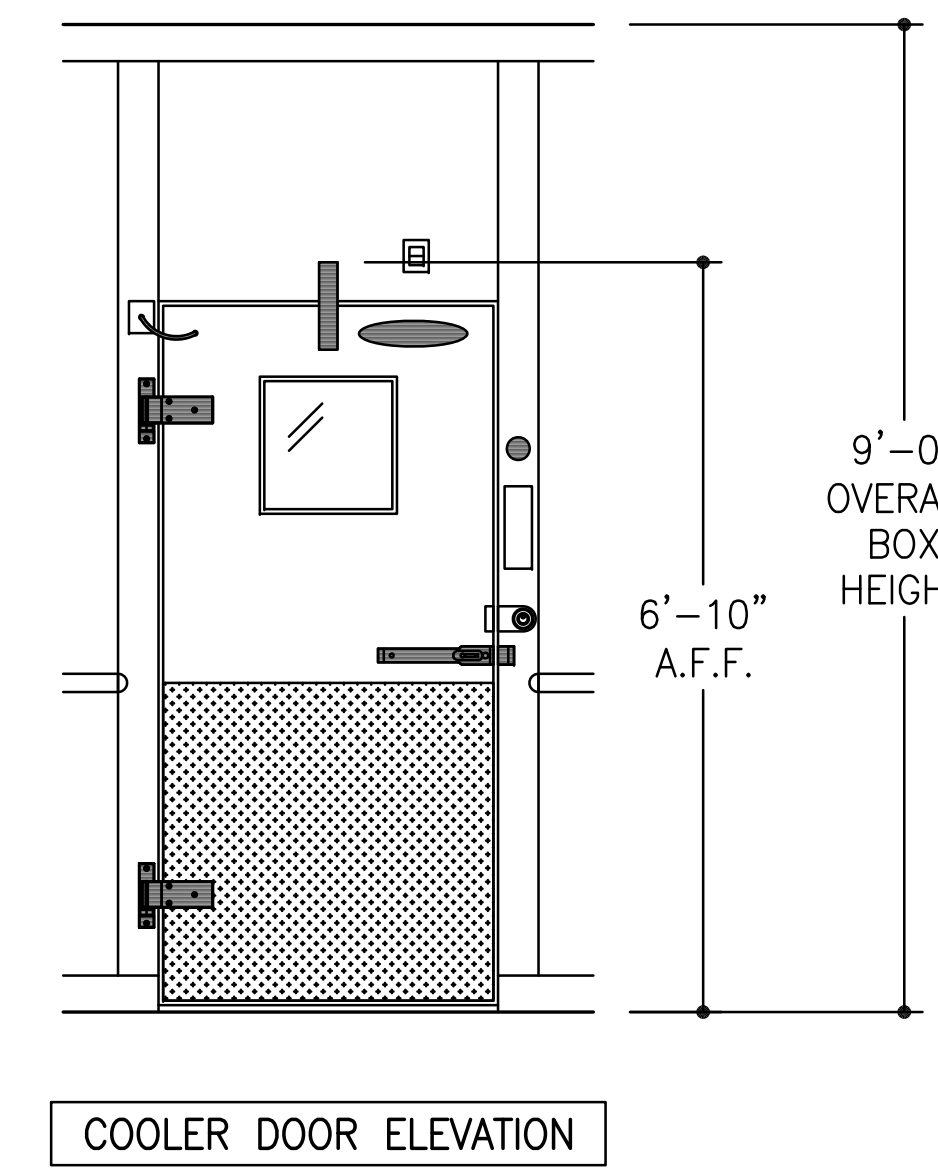
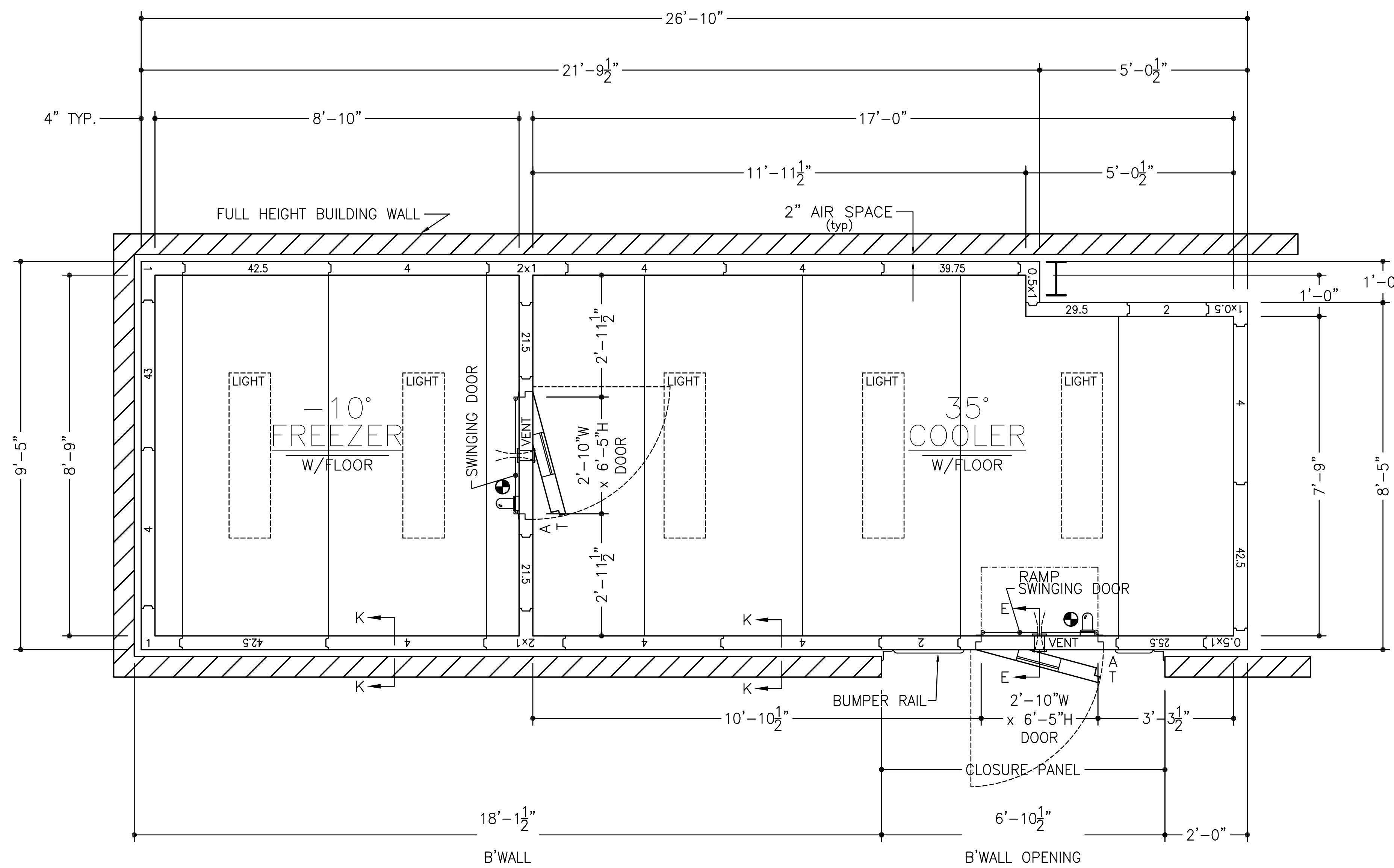


NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

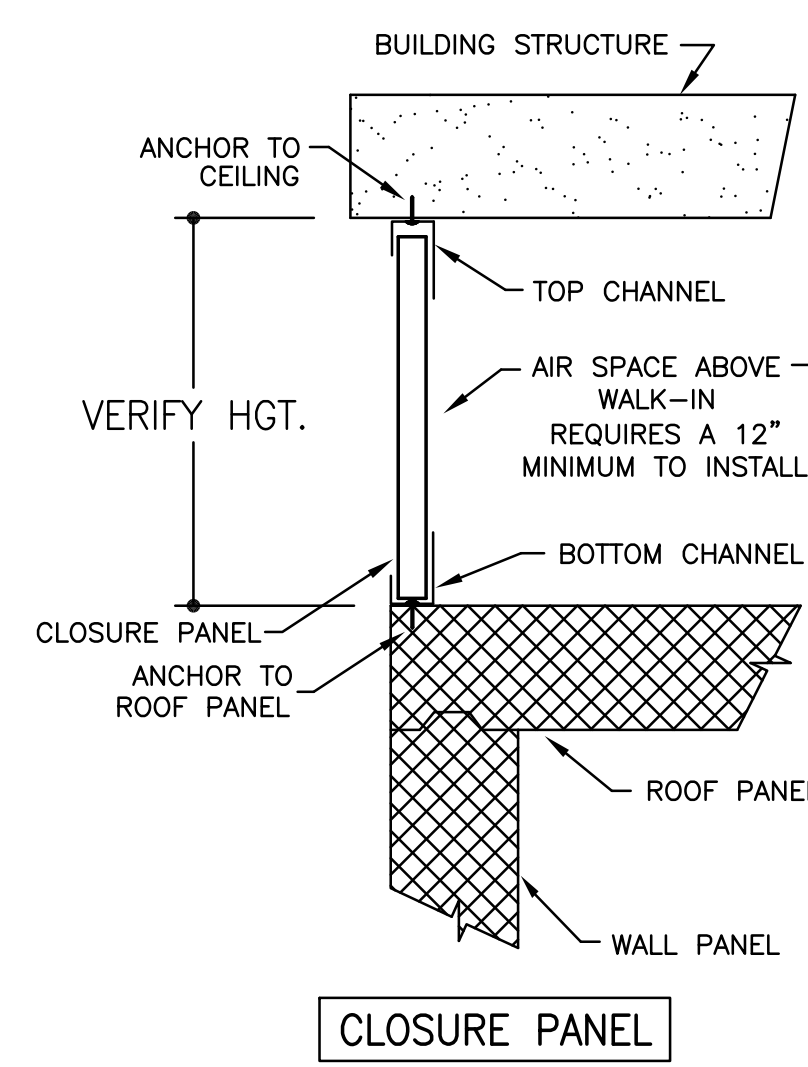
DEMONICA KEMPER ARCHITECTS 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	KJWW ENGINEERING 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	E.F. WHITNEY, INC. 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>STUDENT SERVERY</b>		PROJECT NO.
<b>ISSUED FOR CONSTRUCTION</b>		CDB 810-048-023
<b>WALK-IN REFRIGERATOR/FREEZER DETAILS - #471</b>		DATE
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-119</b>		OF SHEETS

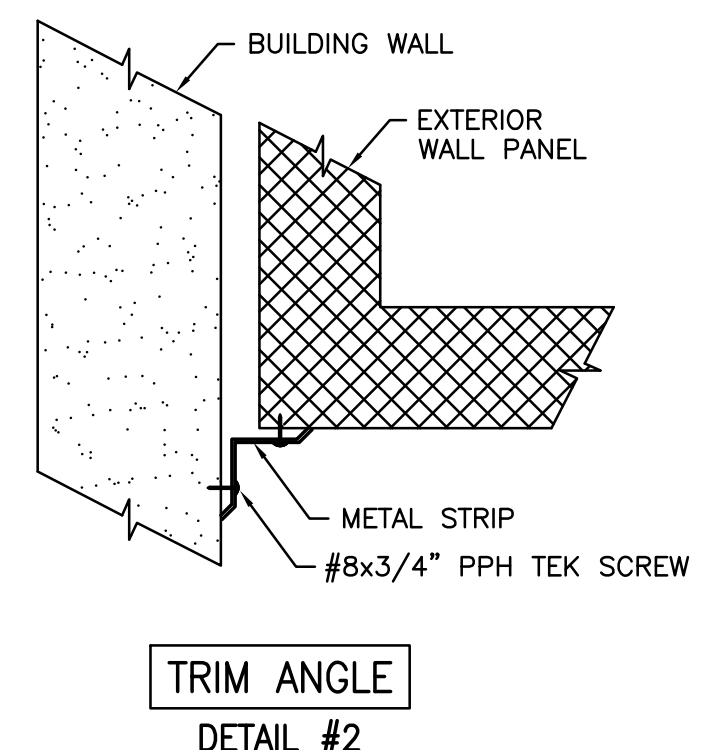
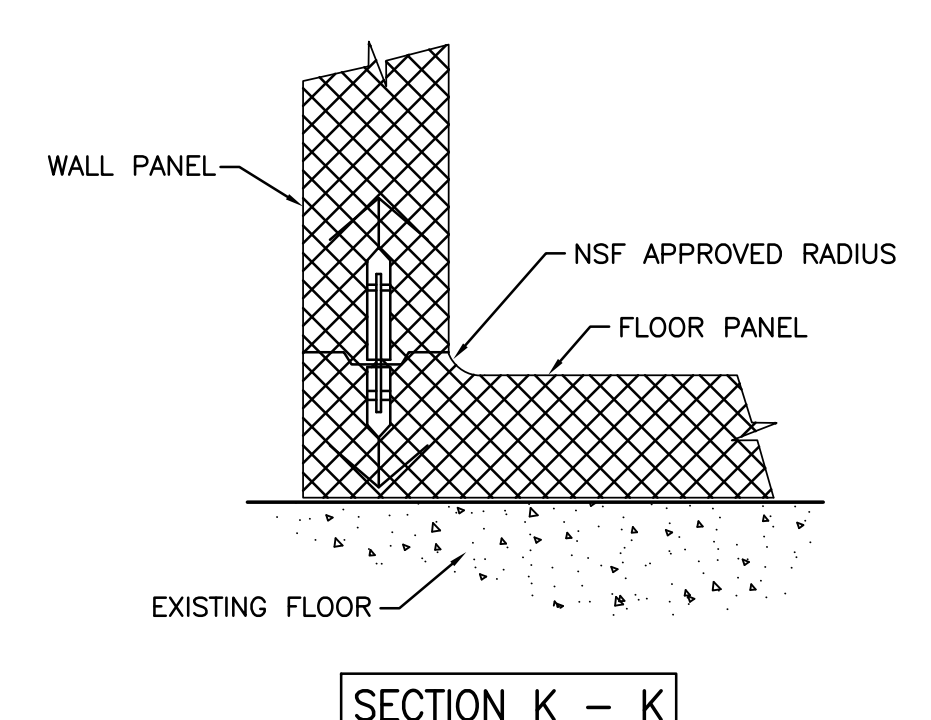
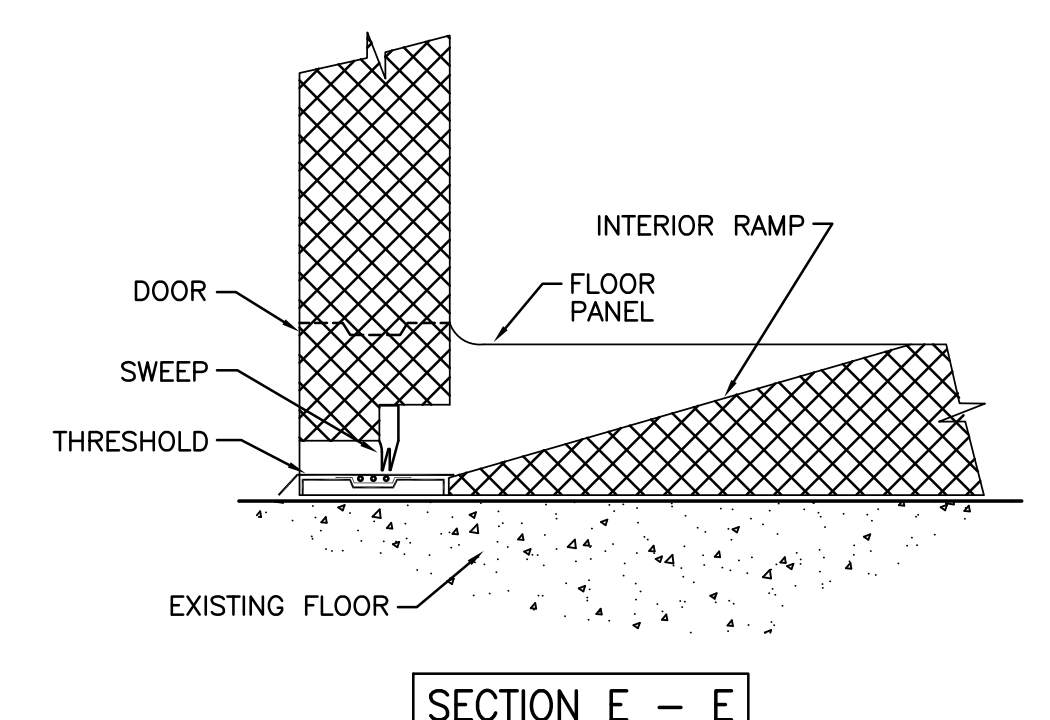
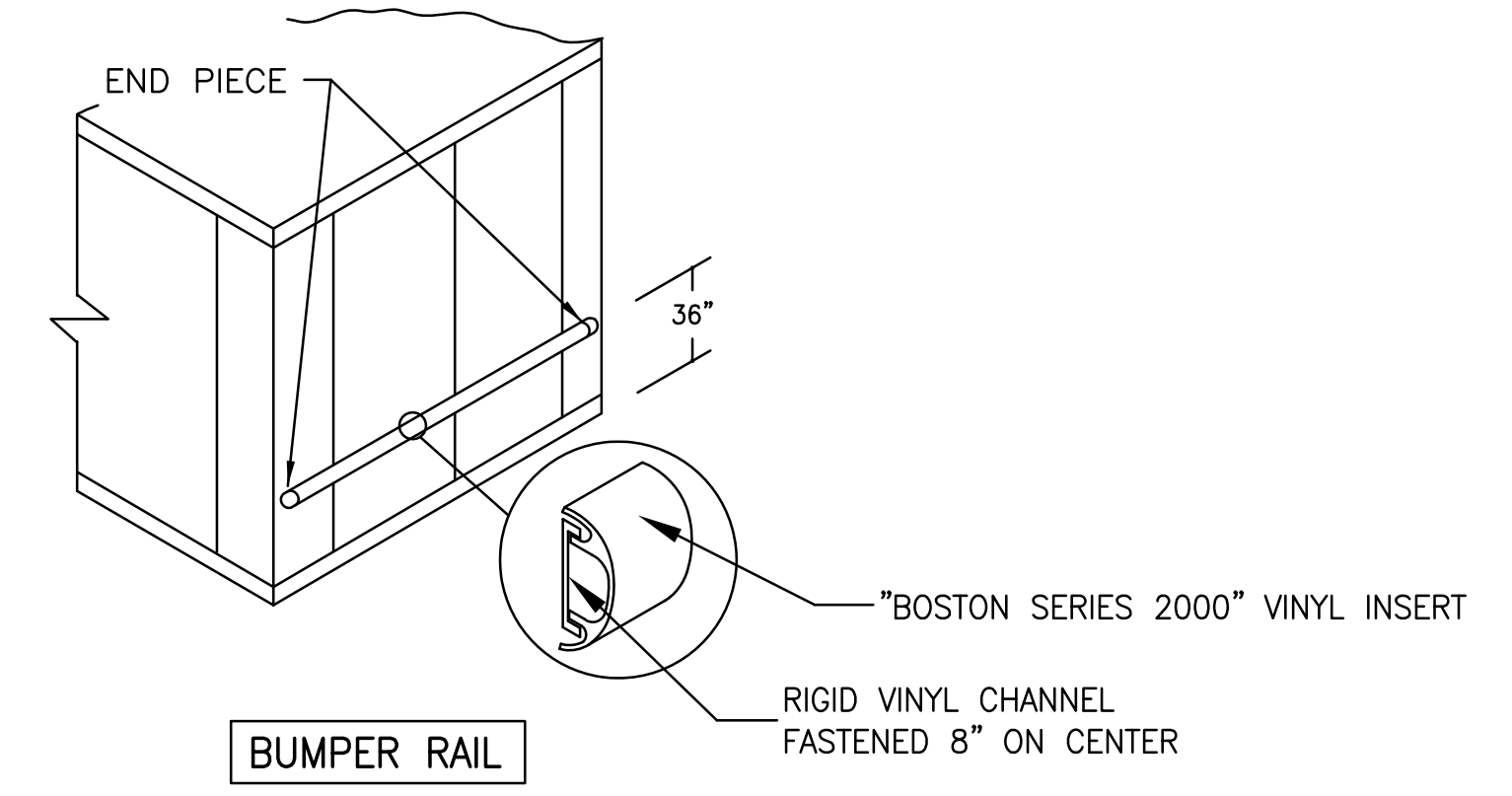
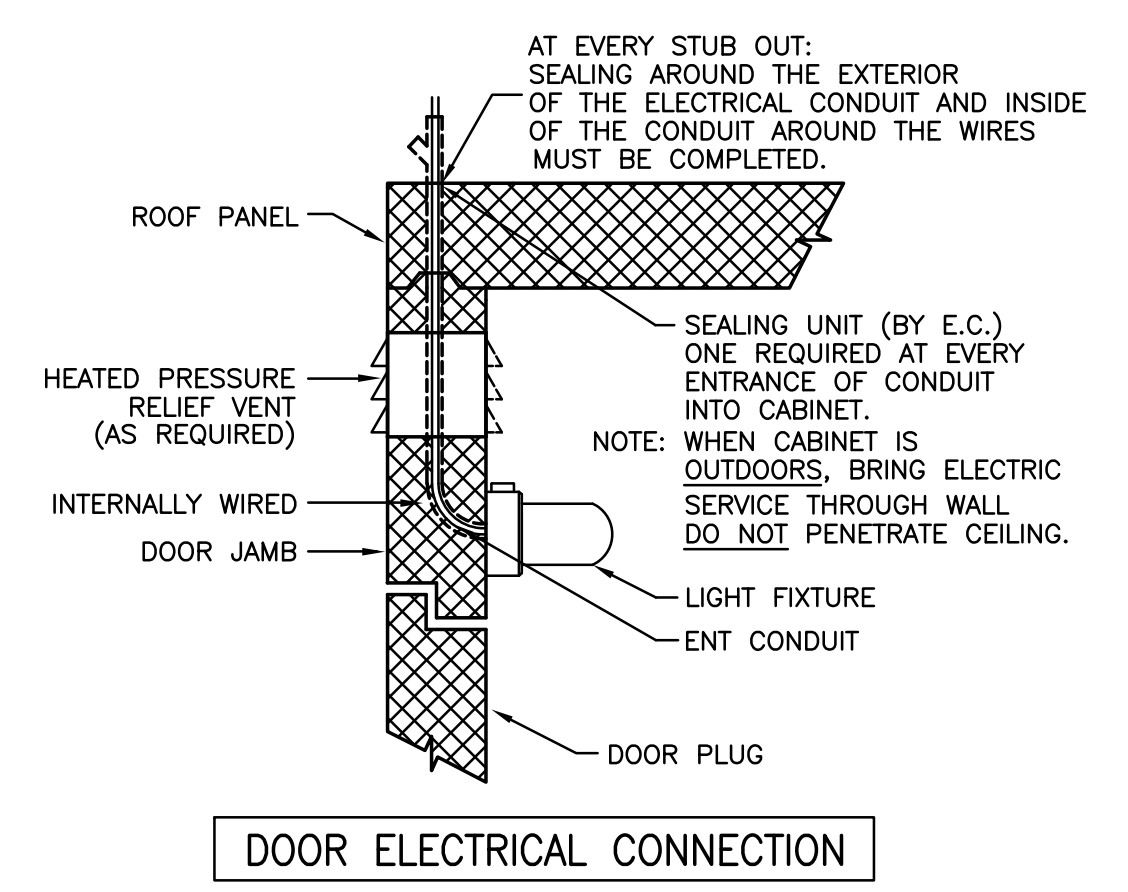


ITEM #565

- ~SPECIFICATIONS~**
- BOX HEIGHT:** FREEZER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)  
COOLER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)
  - CONSTRUCTION:** FOAMED IN PLACE  
NSF LISTED, STANDARD NO. 7
  - INSULATION:** 4" URETHANE, FINISHED PANEL  
UL CLASSIFIED FLAME SPREAD 20  
CORE SMOKE DEVELOPED 350
  - INSTALLATION:** INDOOR
  - FLOOR:** FREEZER - STANDARD W/INTERIOR RAMP  
(SEE DETAILS)  
COOLER - STANDARD W/INTERIOR RAMP
  - DOOR HARDWARE & ACCESSORIES:** EACH DOOR  
115v POWER TO BE STUBBED OUT CEILING PANEL  
DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK  
PROVISION & INSIDE RELEASE (EXTERIOR DOOR ONLY)  
KASON #10944-5 DEADBOLT LOCK  
FRAME HEATER WIRE  
HYDRAULIC DOOR CLOSER  
TEMP. ALARM INCLUDING:  
DIRECT LINE VOLTAGE SYSTEM: 115vac, 60Hz, 1Ph  
C OR F TEMPERATURE SELECTION  
5 DIGITS DIGITAL DISPLAY  
AIR PROBE & DOOR HEATER PROBE, NTC SENSOR  
LIGHT SWITCH & DOOR HEATER CONTROL  
PROGRAMMABLE AIR CAVITY HIGH & LOW TEMPERATURE ALARMS  
PROGRAMMABLE AUTOMATIC LIGHT SHUT OFF  
EXTERNAL ALARM RELAY  
(115vac, 60Hz, 1Ph 150W DIRECT POWER CONNECTION)  
INTEGRAL BUZZER ALARM  
KASON #1806 PLUG-IN LED VAPOR PROOF LIGHT FIXTURE  
W/11.5 WATT BULB, GLOBE & WIRE GUARD  
CCI CLEAR VU SWINGING DOOR  
2 - STD. CAM RISE HINGES  
2" FLUSH MOUNT DIAL THERMOMETER W/6" PROBE  
HEATED VISION WINDOW (14" x 14")  
1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH 1/5 & 0/5  
KASON #1825 PRESSURE RELIEF VENT
  - ACCESSORIES:** 2 - PCS. TRIM ANGLE  
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)  
5 - 48" (1810LX) LED LIGHT FIXTURES @ 39w EACH (SHIPPED LOOSE)  
RIGID VINYL EXTRUSION BUMPER RAIL (BOSTON SERIES 2000)  
W/VINYL INSERT @ 36" A.F.F.
  - METAL FINISHES:** INTERIOR WALLS & CEILING - .032 STUCCO ALUMINUM  
EXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
UNEXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
EXTERIOR FLOOR & CEILING - 26 GA STUCCO ACRYLUME  
DIAMOND PLATE
  - REFRIGERATION:** BY GC



**ELECTRICAL DATA**  
 ● = POINT OF ELECTRICAL CONNECTIONS.  
 WALK-IN DOORS: 115v/1φ - 350w\*



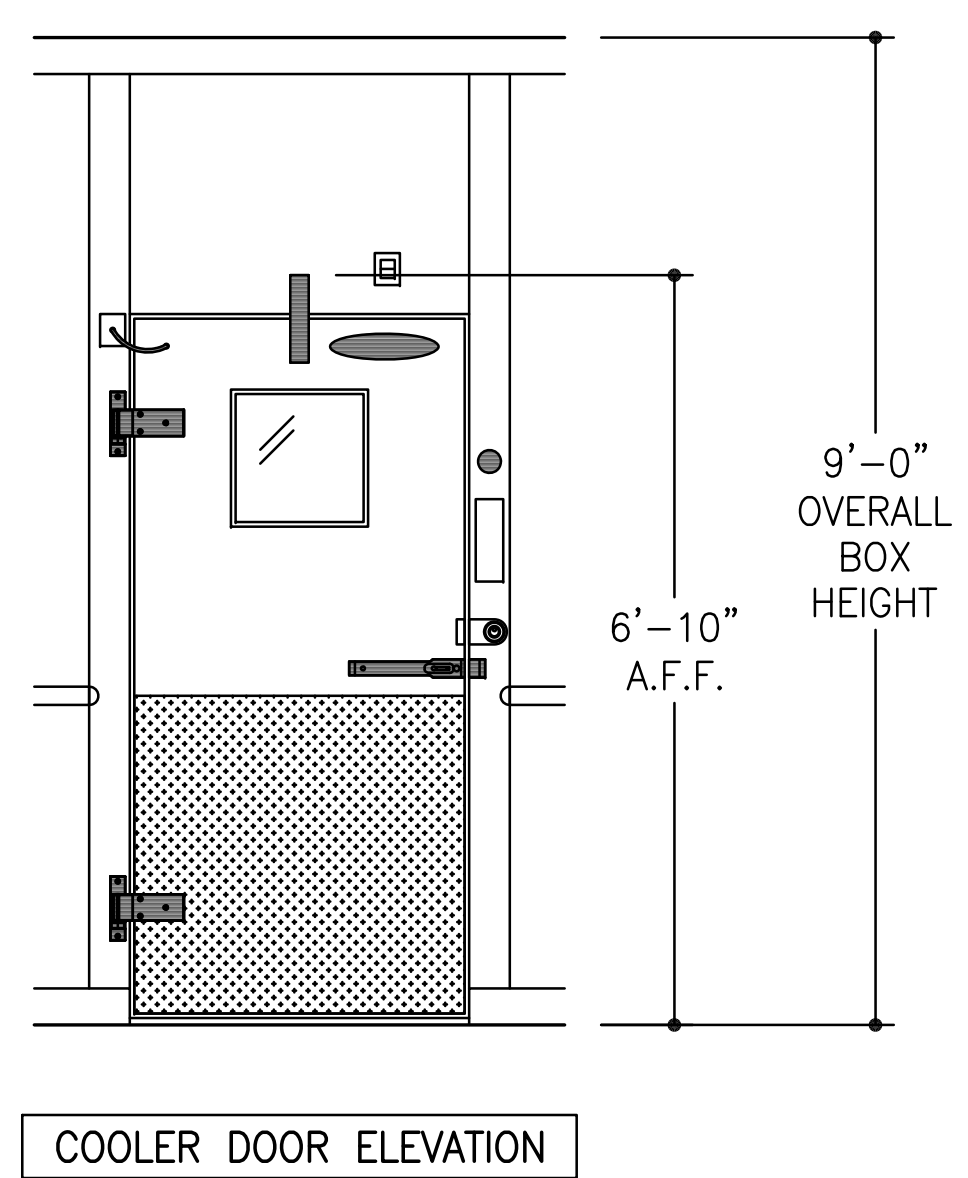
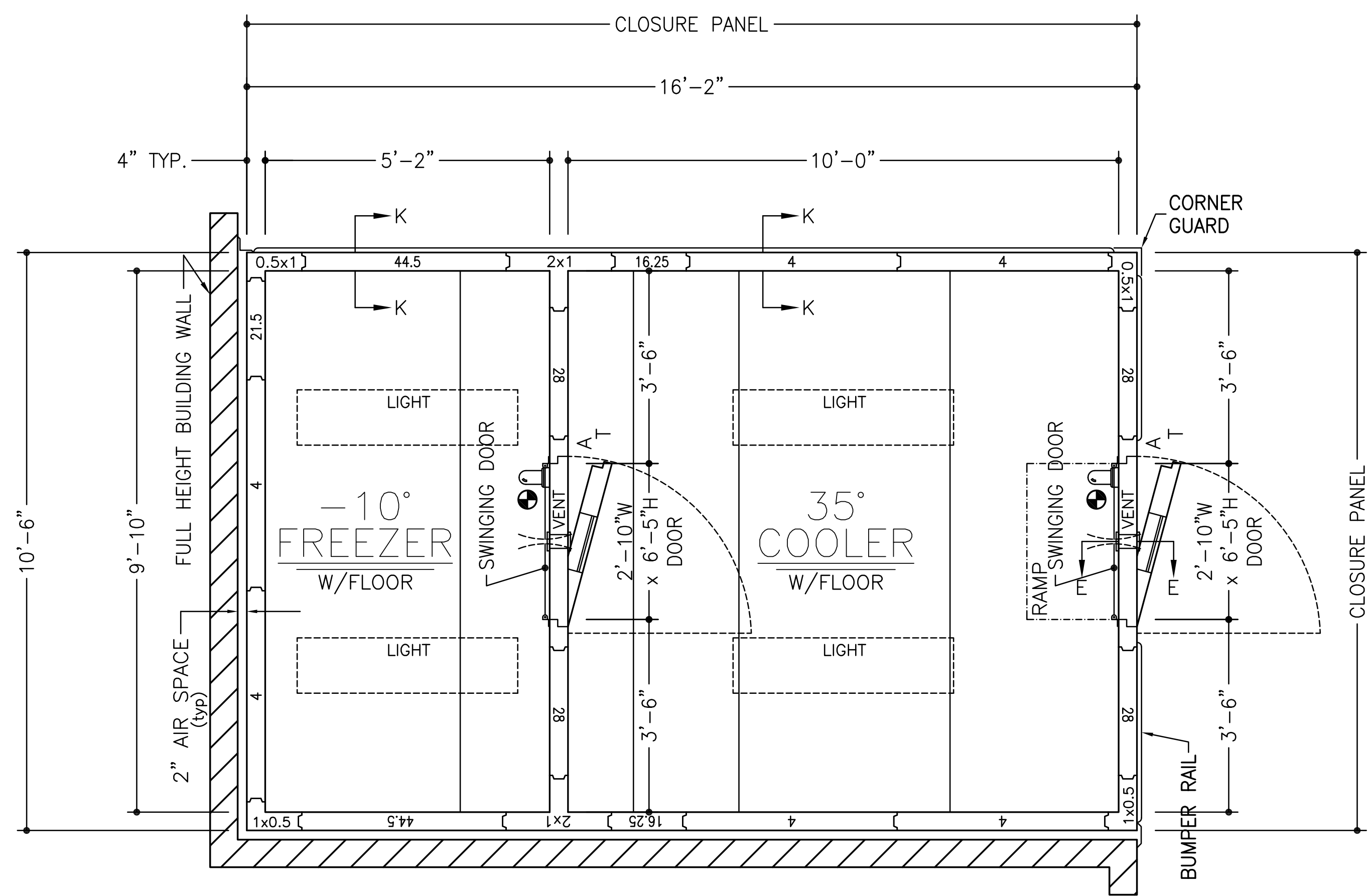
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED	APPROVED	APPROVED
XXX	XXX	XXX	XXX
TRACED	OFF.	XXX	XXX
CHECKED	APPROVED	XXX	EFW
XXX	EFW		

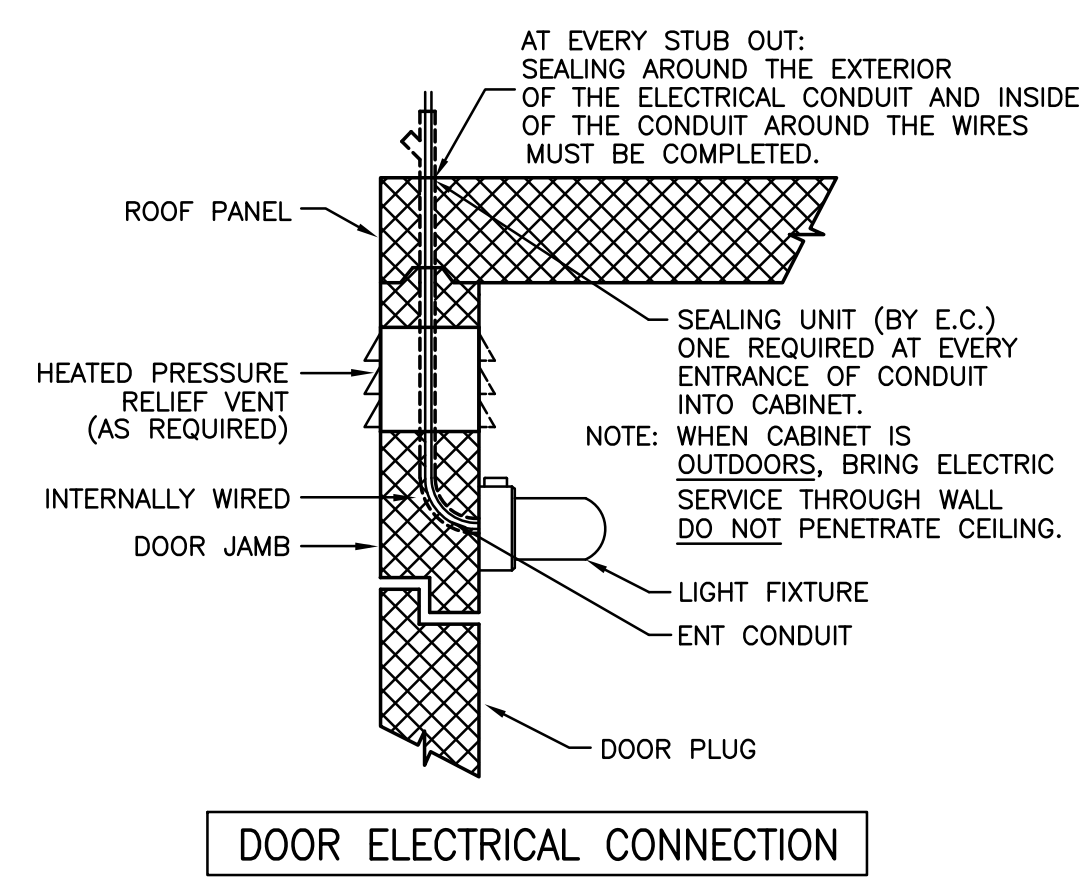
<b>DEMONICA KEMPER ARCHITECTS</b> 125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000	<b>KJW ENGINEERING</b> 1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320	<b>E.F. WHITNEY, INC.</b> 568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990
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<b>COMPETITION LAB</b>	
<b>ISSUED FOR CONSTRUCTION</b>	
<b>WALK-IN REFRIGERATOR/FREEZER DETAILS - #565</b>	
<b>CITY CENTER CAMPUS</b>	PROJECT NO. CDB 810-048-023
<b>JOLIET JUNIOR COLLEGE</b>	DATE DEC. 12, 2014
<b>FSE-120</b>	SHEET NO.
OF SHEETS	

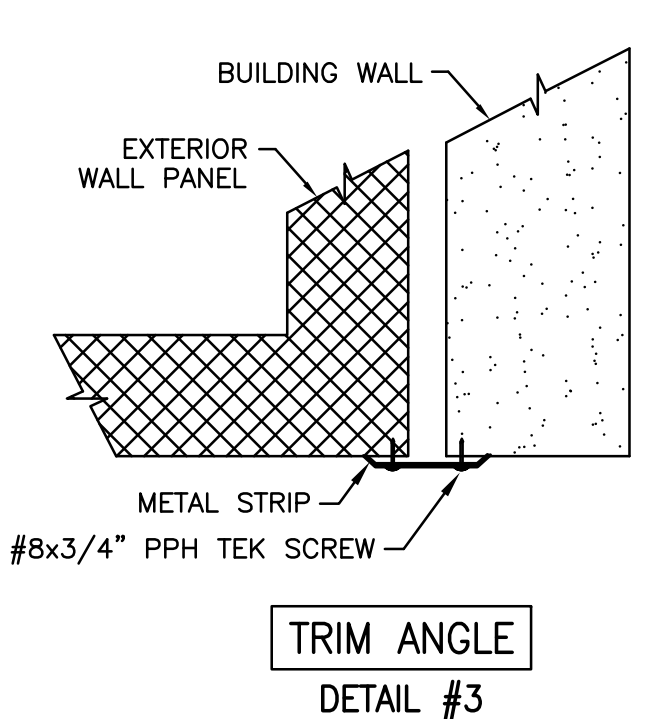
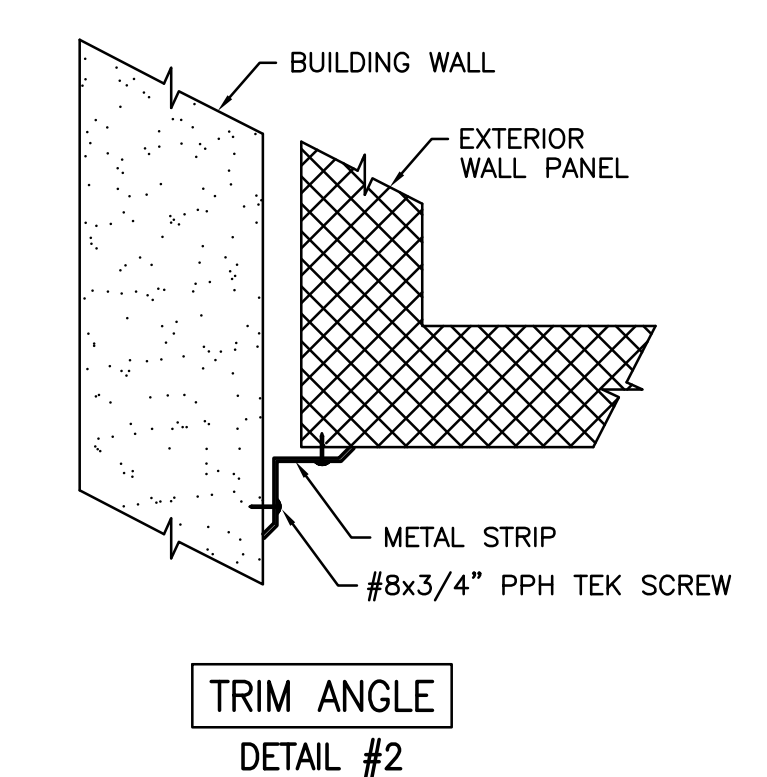
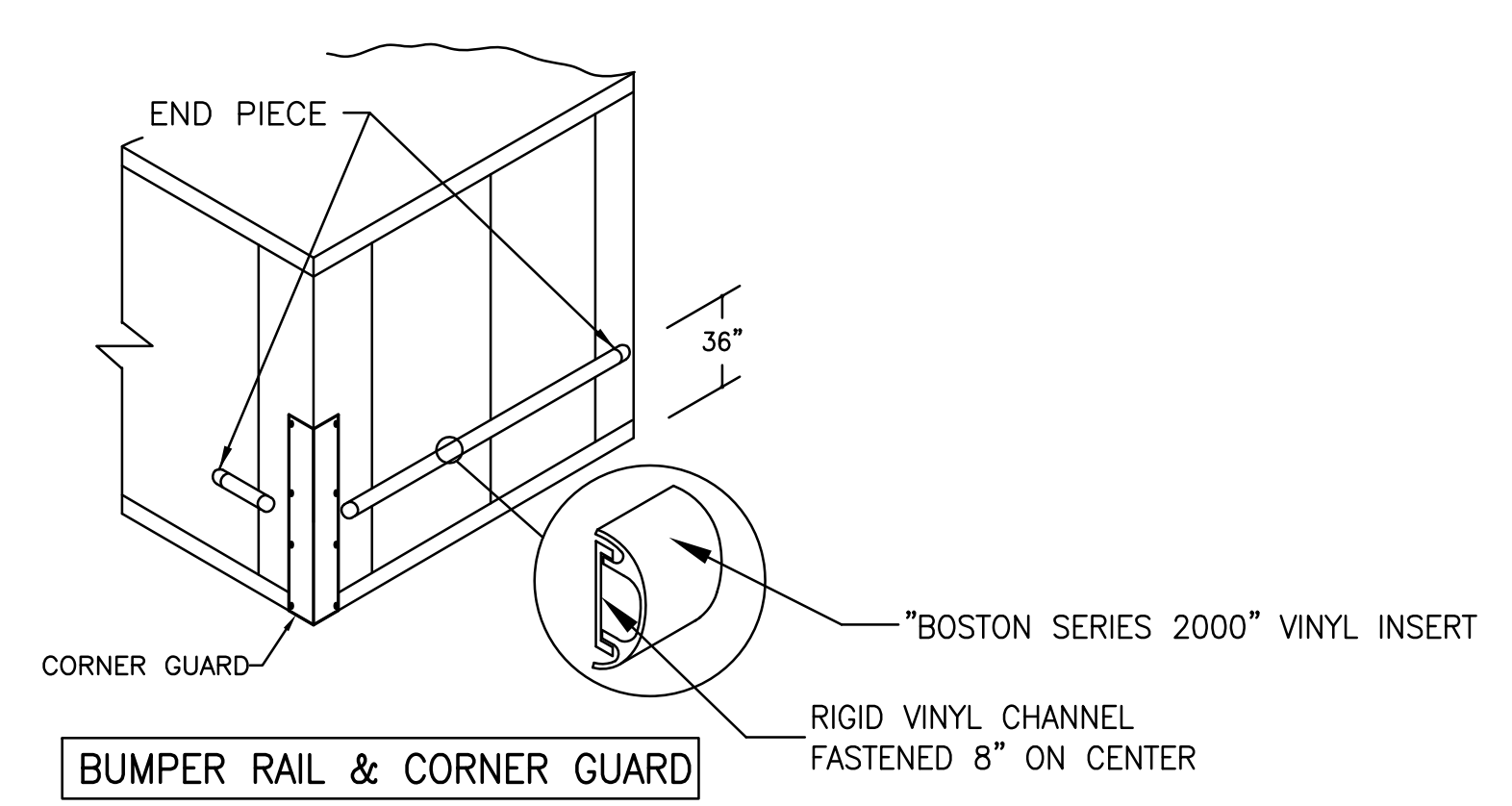
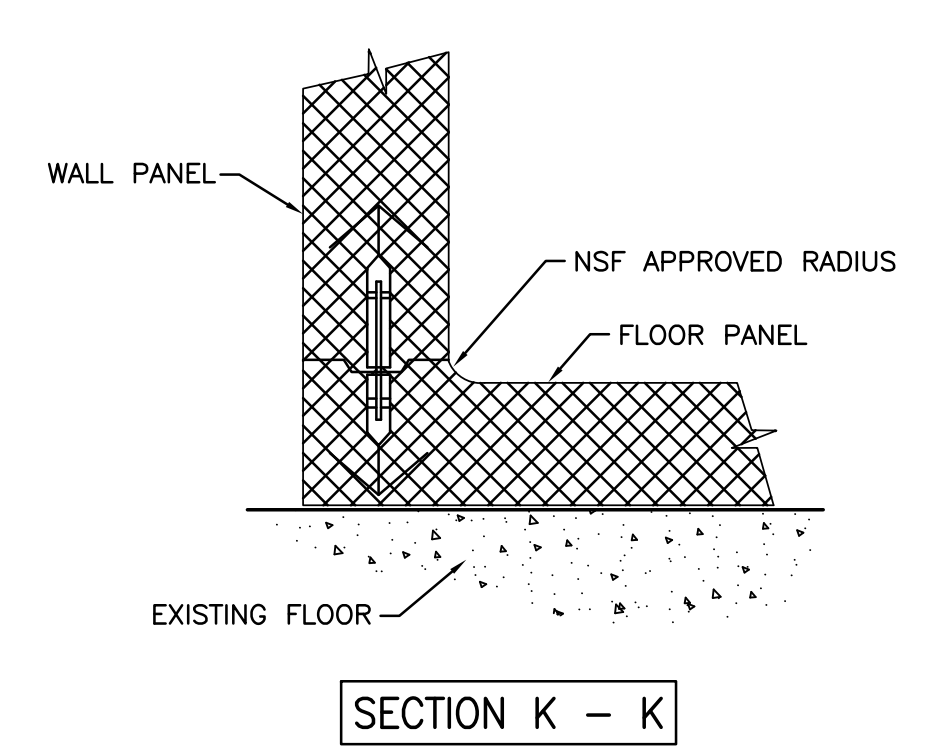
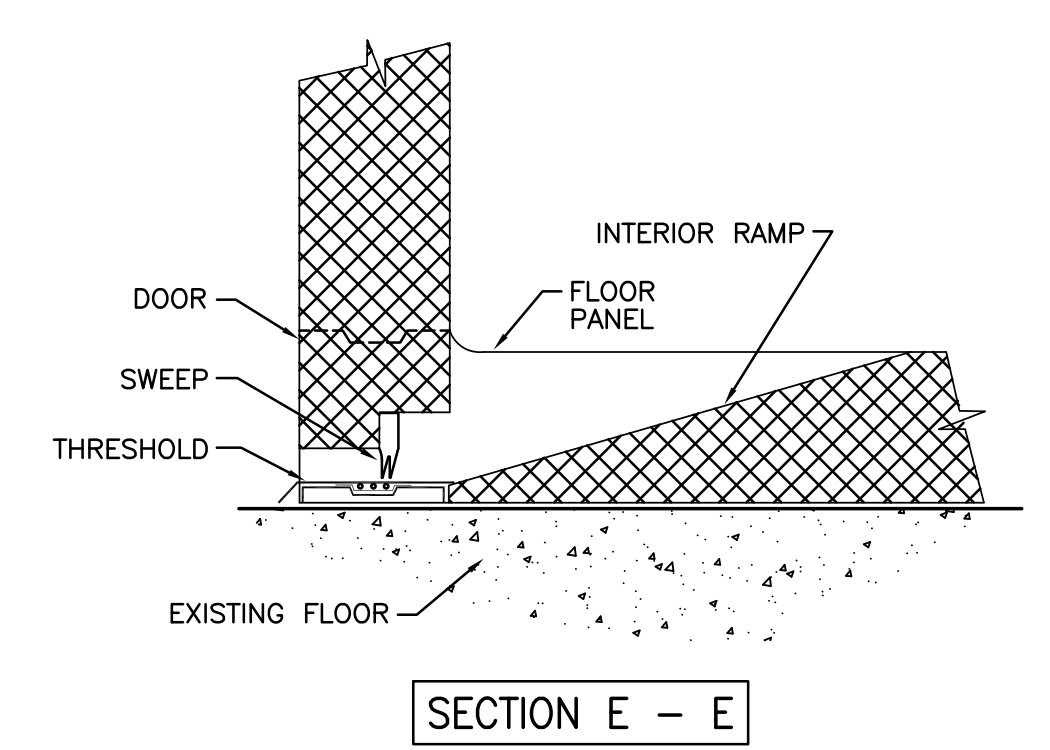
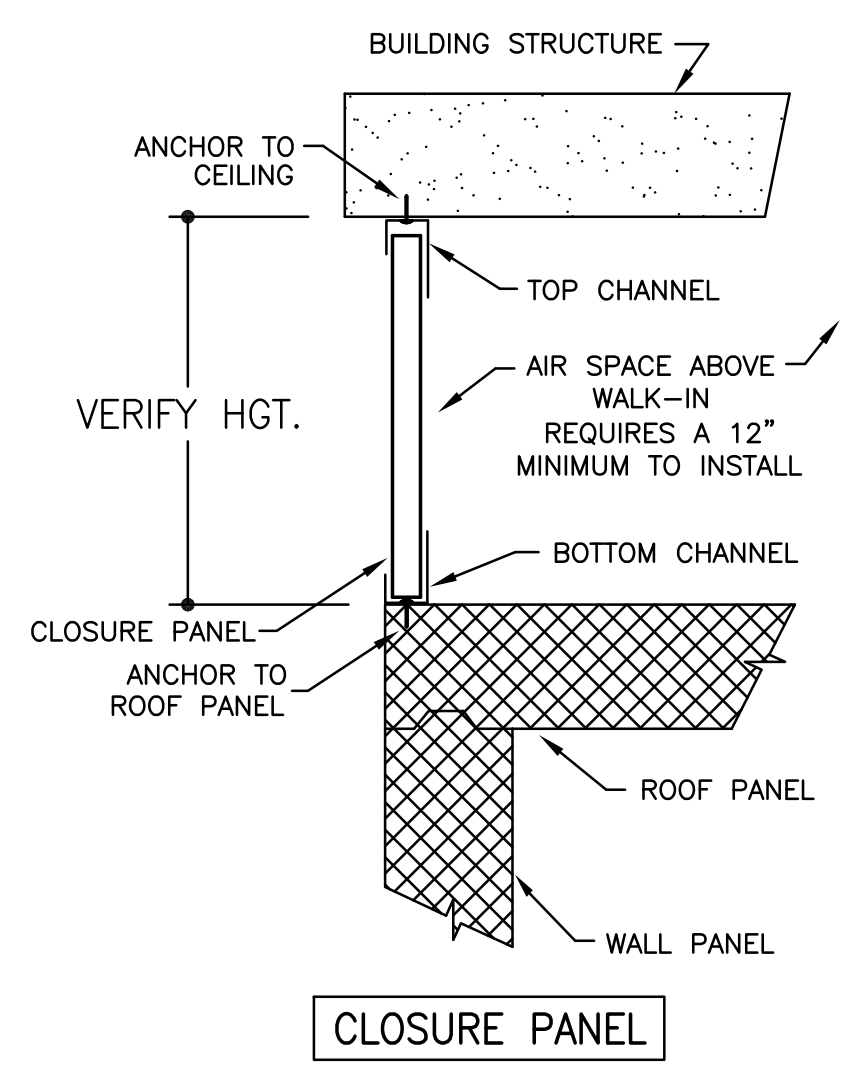


- ~SPECIFICATIONS~**
- BOX HEIGHT:** FREEZER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)  
COOLER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)
  - CONSTRUCTION:** FOAMED IN PLACE  
NSF LISTED, STANDARD NO. 7
  - INSULATION:** 4" URETHANE, FINISHED PANEL  
UL CLASSIFIED FLAME SPREAD 20  
CORE SMOKE DEVELOPED 350
  - INSTALLATION:** INDOOR
  - FLOOR:** FREEZER - STANDARD  
COOLER - STANDARD W/INTERIOR RAMP
  - DOOR HARDWARE & ACCESSORIES:** 115v POWER TO BE STUBBED OUT CEILING PANEL  
DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK  
PROVISION & INSIDE RELEASE  
KASON #10944-5 DEADBOLT LOCK  
FRAME HEATER WIRE  
HYDRAULIC DOOR CLOSER  
TEMP. ALARM INCLUDING:  
DIRECT LINE VOLTAGE SYSTEM: 115Voc, 60Hz, 1Ph  
C OR F TEMPERATURE SELECTION  
5 DIGITS DIGITAL DISPLAY  
AIR PROBE & DOOR HEATER PROBE, NTC SENSOR  
LIGHT SWITCH & DOOR HEATER CONTROL  
PROGRAMMABLE AIR CAVITY HIGH & LOW TEMPERATURE ALARMS  
PROGRAMMABLE AUTOMATIC LIGHT SHUT OFF  
EXTERNAL ALARM RELAY  
(115Voc, 60Hz, 1Ph 150W DIRECT POWER CONNECTION)  
INTEGRAL BUZZER ALARM  
KASON #1806 PLUG-IN LED VAPOR PROOF LIGHT FIXTURE  
W/11.5 WATT BULB, GLOBE & WIRE GUARD  
CCI CLEAR VU SWINGING DOOR  
2 - STD. CAM RISE HINGES  
2" FLUSH MOUNT DIAL THERMOMETER W/6" PROBE  
HEATED VISION WINDOW (14" x 14")  
1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH I/S & O/S  
KASON #1825 PRESSURE RELIEF VENT
  - ACCESSORIES:** 2 - PCS. TRIM ANGLE  
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)  
4 - 48" (1810LX) LED LIGHT FIXTURES @ 39W EACH (SHIPPED LOOSE)  
RIGID VINYL EXTRUSION BUMPER RAIL (BOSTON SERIES 2000)  
W/VINYL INSERT @ 36" A.F.F.  
1 - 12 GA STAINLESS STEEL CORNER GUARD @ 48" HIGH
  - METAL FINISHES:** INTERIOR WALLS & CEILING - .032 STUCCO ALUMINUM  
EXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
UNEXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
EXTERIOR FLOOR & CEILING - 26 GA STUCCO ACRYLUME  
INTERIOR FLOOR - DIAMOND PLATE
  - REFRIGERATION:** BY GC

ITEM #699



**ELECTRICAL DATA**  
 ⦿ = POINT OF ELECTRICAL CONNECTIONS.  
 WALK-IN DOORS: 115v/1Ø - 350w\*



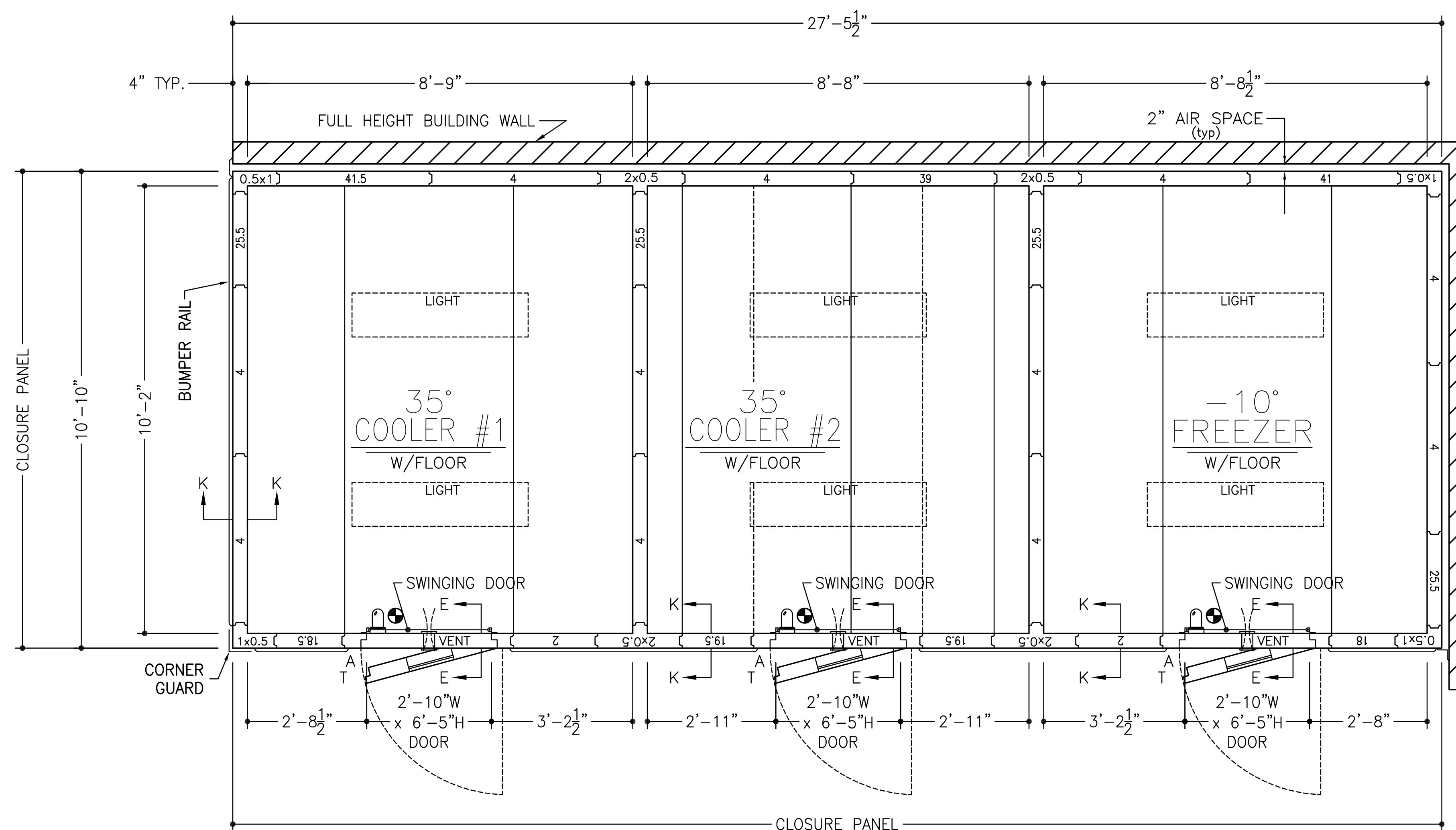
NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

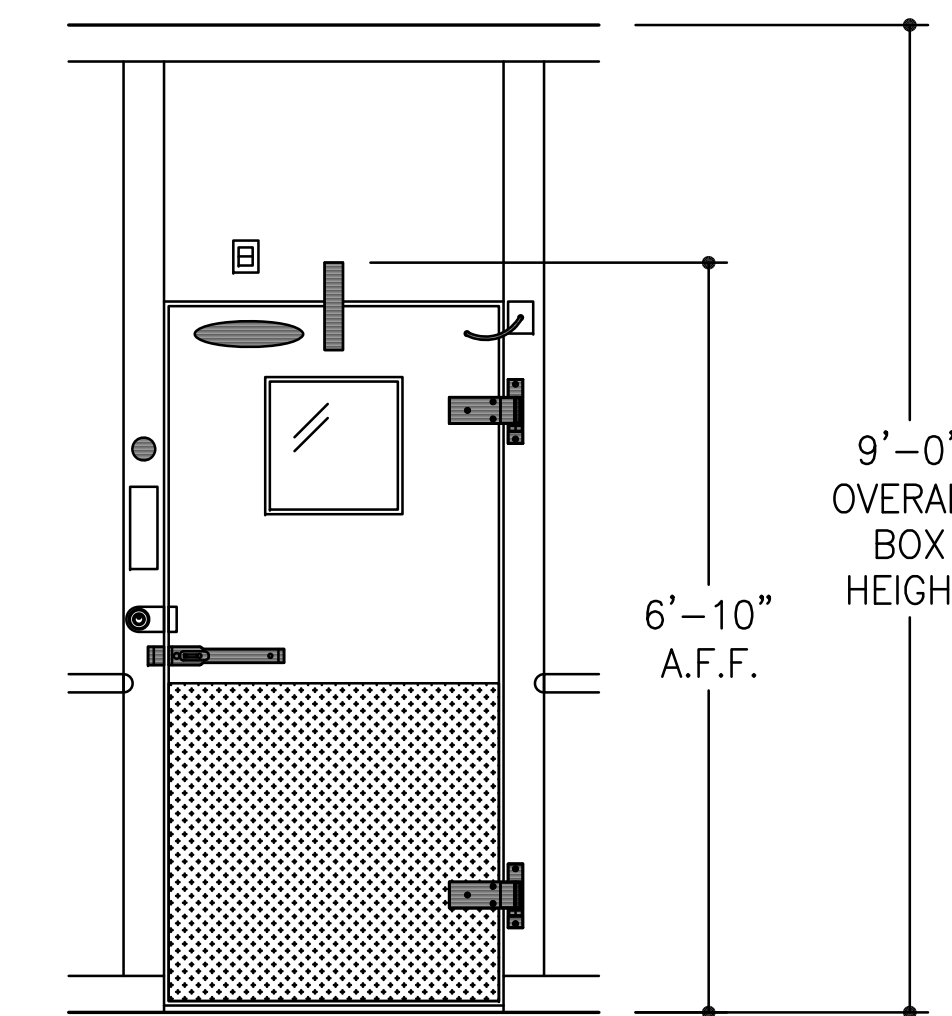
<p><b>DEMONICA KEMPER ARCHITECTS</b>          125 N. HALSTED STREET, SUITE 301          CHICAGO, IL 60661          P: 312.496.0000</p>	<p><b>KJW ENGINEERING</b>          1100 WARRENVILLE ROAD, #400W          NAPERVILLE, IL 60563          T: 630.527.2320</p>	<p><b>E.F. WHITNEY, INC.</b>          568 ANN STREET          BIRMINGHAM, MI 48009          T: 248.644.0990</p>
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<b>BALLROOM KITCHEN</b>		PROJECT NO. CDB 810-048-023
<b>ISSUED FOR CONSTRUCTION</b>		DATE DEC. 12, 2014
<b>WALK-IN REFRIGERATOR/FREEZER DETAILS - #699</b>		SHEET NO. <b>FSE-121</b>
<b>CITY CENTER CAMPUS</b>		OF SHEETS
<b>JOLIET JUNIOR COLLEGE</b>		

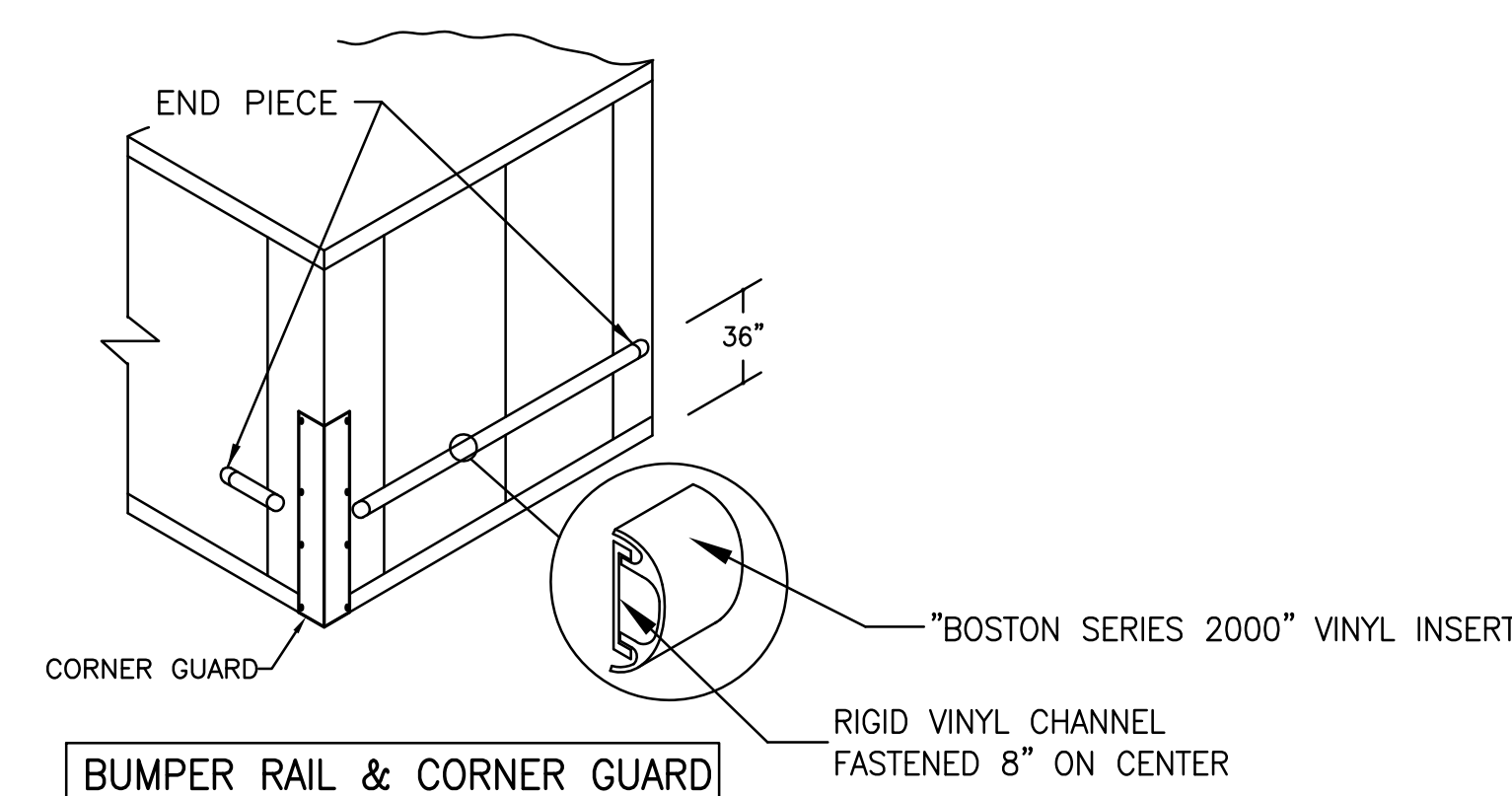




ITEM #791



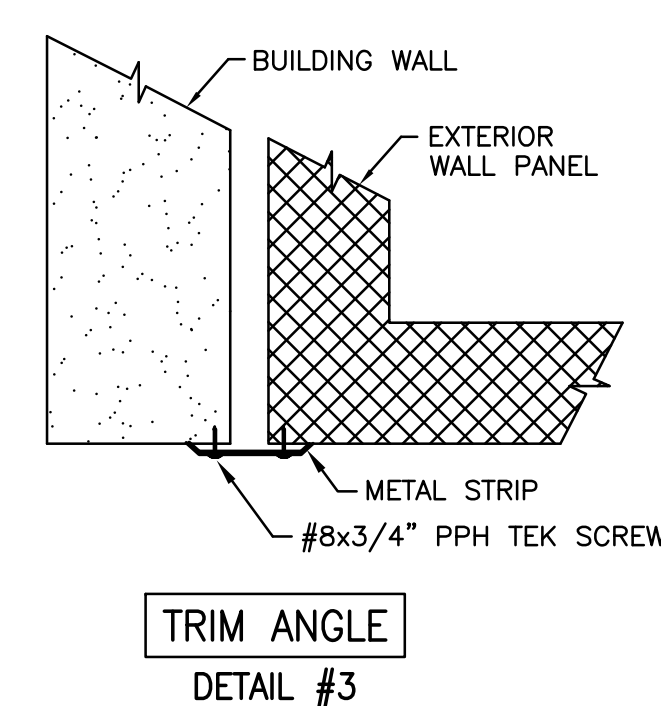
DOOR ELEVATION  
TYP.



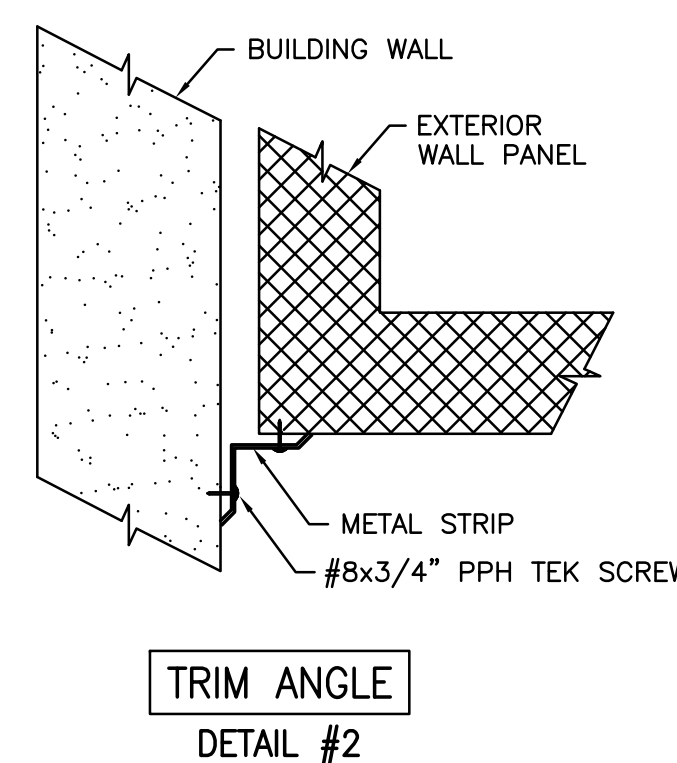
BUMPER RAIL & CORNER GUARD

- ~SPECIFICATIONS~
- BOX HEIGHT:** FREEZER - 9'-0" OVERALL (8'-4 1/4" INTERIOR)  
COOLER #1 - 9'-0" OVERALL (8'-4 1/4" INTERIOR)  
COOLER #2 - 9'-0" OVERALL (8'-4 1/4" INTERIOR)
- CONSTRUCTION:** FOAMED IN PLACE  
NSF LISTED, STANDARD NO. 7
- INSULATION:** 4" URETHANE, FINISHED PANEL  
UL CLASSIFIED FLAME SPREAD 20  
CORE SMOKE DEVELOPED 350
- INSTALLATION:** INDOOR
- FLOOR:** FREEZER - STANDARD  
COOLER #1 - STANDARD  
COOLER #2 - STANDARD
- DOOR HARDWARE & ACCESSORIES:** EACH DOOR  
115v POWER TO BE STUBBED OUT CEILING PANEL  
DEADBOLT HANDLE W/KEYED CYLINDER LOCK, PADLOCK  
PROVISION & INSIDE RELEASE  
KASON #10944-5 DEADBOLT LOCK  
FRAME HEATER WIRE  
HYDRAULIC DOOR CLOSER  
APC SYSTEM 100 TEMP. ALARM INCLUDING:  
DIRECT LINE VOLTAGE SYSTEM: 115vac, 60Hz, 1Ph  
C OR F TEMPERATURE SELECTION  
5 DIGITS DIGITAL DISPLAY  
AIR PROBE & DOOR HEATER PROBE, NTC SENSOR  
LIGHT SWITCH & DOOR HEATER CONTROL  
PROGRAMMABLE AIR CAVITY HIGH & LOW TEMPERATURE ALARMS  
PROGRAMMABLE AUTOMATIC LIGHT SHUT OFF  
EXTERNAL ALARM RELAY (115vac, 60Hz, 1Ph 150W DIRECT POWER CONNECTION)  
INTEGRAL BUZZER ALARM  
KASON #1806 PLUG-IN LED VAPOR PROOF LIGHT FIXTURE  
W/11.5 WATT BULB, GLOBE & WIRE GUARD  
CCI CLEAR VU SWINGING DOOR  
2 - STD. CAM RISE HINGES  
2" FLUSH MOUNT DIAL THERMOMETER W/6" PROBE  
HEATED VISION WINDOW (14" x 14")  
1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH 1/5 & 0/5  
KASON #1825 PRESSURE RELIEF VENT
- ACCESSORIES:** 2 - PCS. TRIM ANGLE  
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)  
6 - 48" (1810LX) LED LIGHT FIXTURES @ 39w EACH (SHIPPED LOOSE)  
RIGID VINYL EXTRUSION BUMPER RAIL (BOSTON SERIES 2000)  
W/VINYL INSERT @ 36" A.F.F.  
1 - 12 GA STAINLESS STEEL CORNER GUARD @ 48" HIGH
- METAL FINISHES:** INTERIOR WALLS & CEILING - .032 STUCCO ALUMINUM  
EXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
UNEXPOSED EXTERIOR - .032 STUCCO ALUMINUM  
EXTERIOR FLOOR & CEILING - 26 GA STUCCO ACRYLUME  
INTERIOR FLOOR - .BY G.C.
- REFRIGERATION:** BY GC

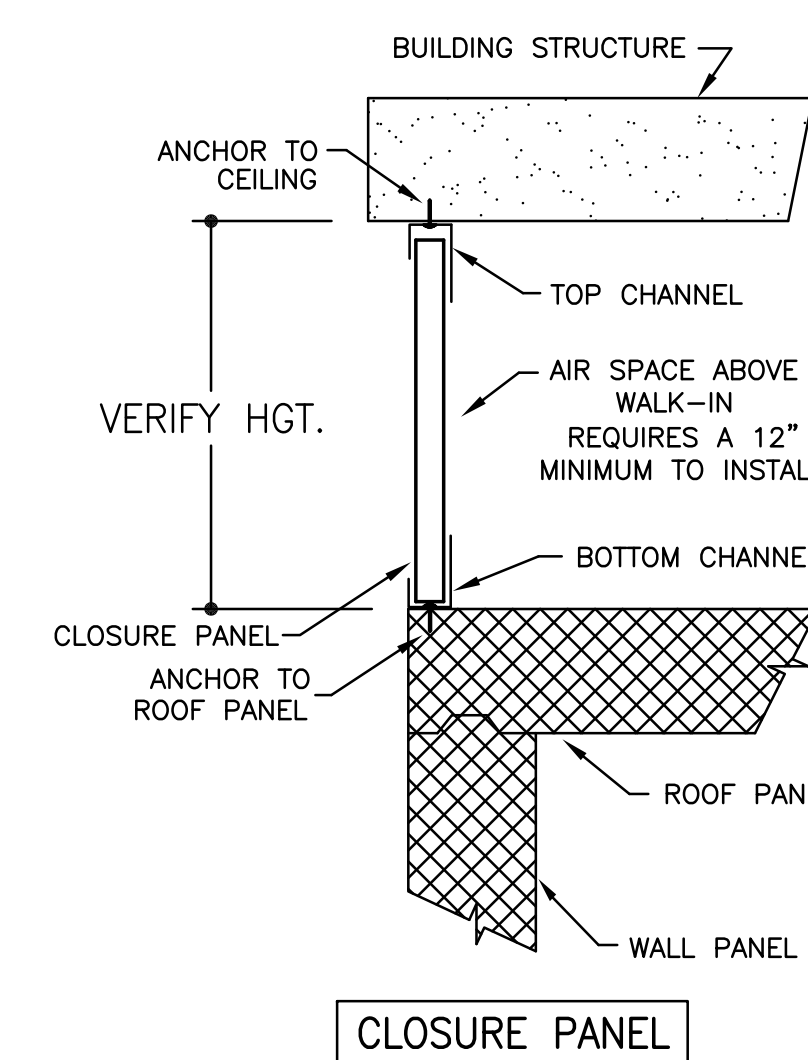
ELECTRICAL DATA	
⊕ = POINT OF ELECTRICAL CONNECTIONS.	
WALK-IN DOORS:	115v/1φ - 350w*



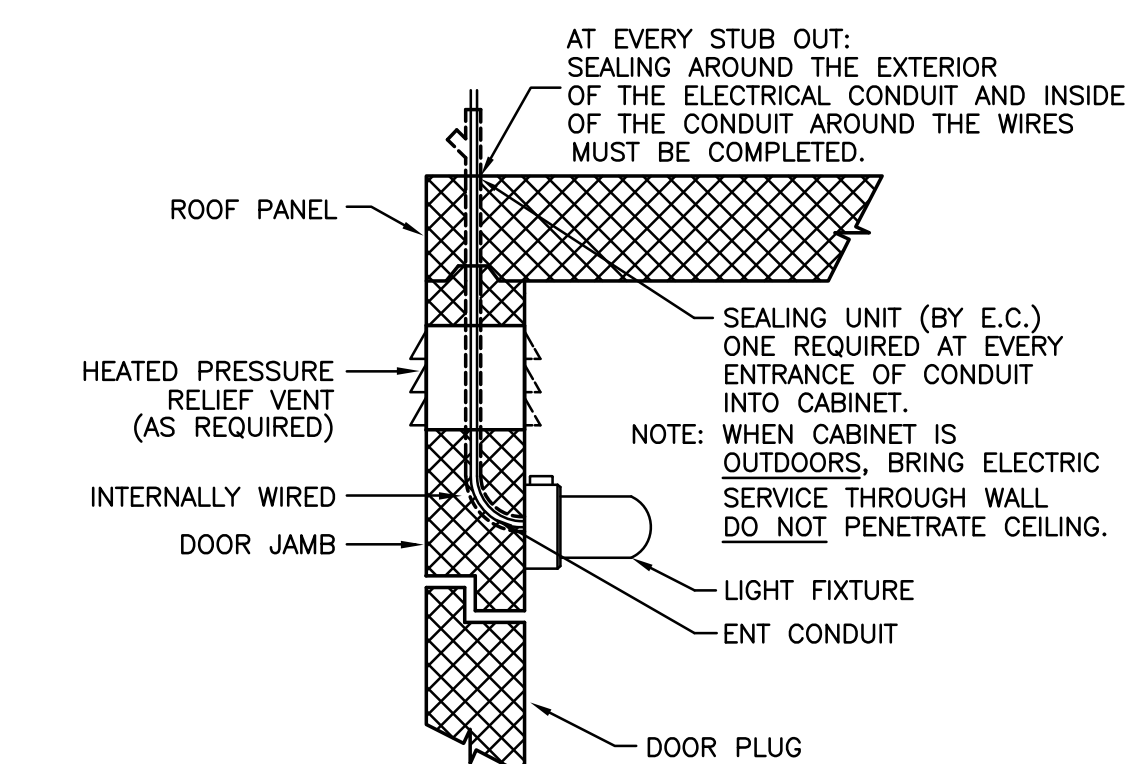
TRIM ANGLE  
DETAIL #3



TRIM ANGLE  
DETAIL #2



CLOSURE PANEL



DOOR ELECTRICAL CONNECTION

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
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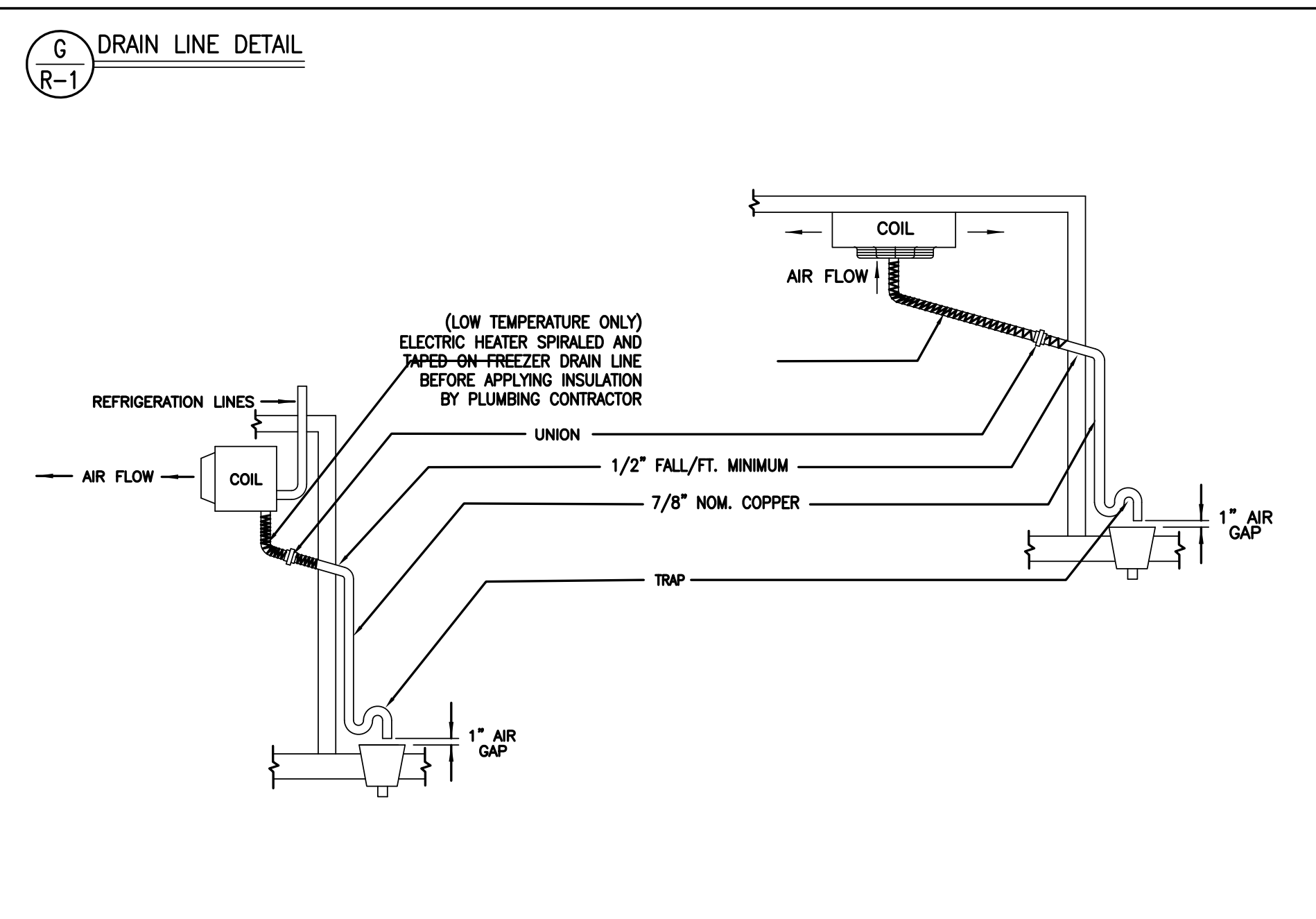
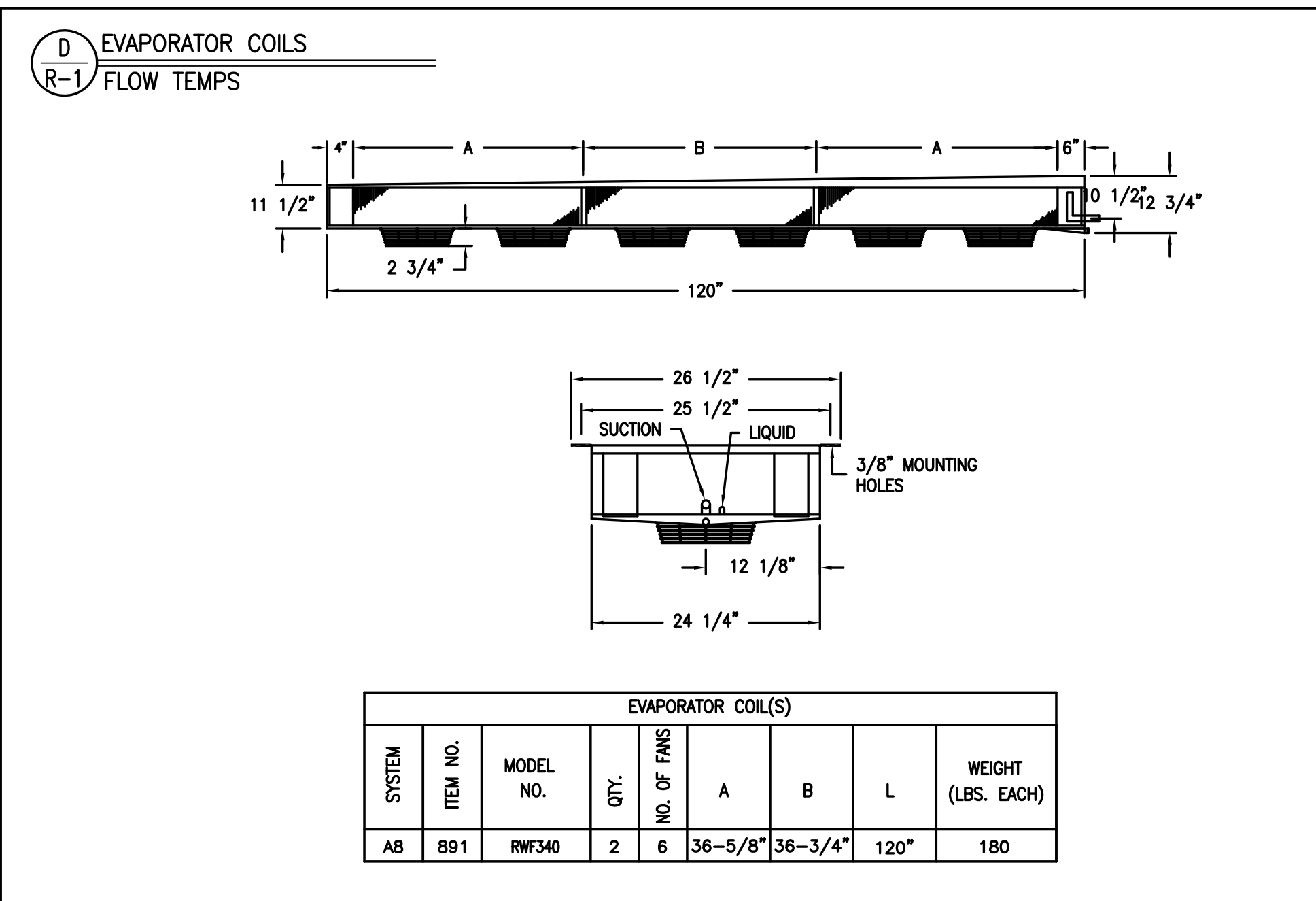
**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 212.496.0000

**KJWW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>A LA CARTE RESTAURANT</b> <b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>WALK-IN REFRIGERATOR/FREEZER DETAILS - #791</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS</b> <b>JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-124</b> OF SHEETS





ENGINEERING GUIDE TO SPECIFICATION FOR REMOTE REFRIGERATION PACKAGE

THE REFRIGERATION PACKAGE SHALL BE A PRE-ENGINEERED AND FACTORY ASSEMBLED UNIT.

DEALER SHALL FURNISH AND INSTALL, WHERE SHOWN ON PLANS, (1) U.L. APPROVED AIR-COOLED REMOTE REFRIGERATION PACKAGE, MODEL ET-6HES-G WITH CONTROL PANEL 480 VOLT, 3 PHASE, 60 HERTZ.

- ENCLOSURE**

THE FRAME SHALL BE MADE OF STRUCTURAL STEEL AND THE ENCLOSURE AND PANELS SHALL BE MADE OF HEAVY GAUGE CARBON STEEL. ENTIRE FRAME SHALL BE PRE-ASSEMBLED, WELDED, CLEANED AND PAINTED WITH A PRIME COAT OF ZINC CHROMATE AND SHALL BE FINISHED WITH A COAT OF EPOXY BASED "ENVIRO-KOTE".
- REFRIGERATION UNIT**

A. THE REFRIGERATION UNIT SHALL BE PROVIDED WITH SINGLE STAGE SEMI-HERMETIC COPPELAND COMPRESSORS, MULTI-CIRCUITED AIR-COOLED CONDENSER OPERATING WITHIN THE RECOMMENDED RANGE OF SUCTION AND DISCHARGE PRESSURE FOR WALK-IN COOLERS, FREEZERS & REFRIGERATED FIXTURES. EACH CIRCUIT OF THE MULTI-CIRCUIT CONDENSER SHALL BE SIZED FOR MINIMUM OF 20' F.T.D.

B. EACH COMPRESSOR UNIT SHALL BE EQUIPPED WITH COPPELAND COMPRESSOR, LARGE PUMP DOWN CAPACITY RECEIVER WITH TWO SHUTOFF VALVES, LIQUID LINE DRIER, SIGHT GLASS, SUCTION AND DISCHARGE VIBRATION ELIMINATOR, HIGH-LOW PRESSURE CONTROL, CRANKCASE HEATER AND FLOOD BACK HEAD PRESSURE CONTROL FOR LOW AMBIENT - ALL FACTORY ASSEMBLED.

C. ALL COMPRESSOR UNITS SHALL BE NEW AND FACTORY ASSEMBLED TO OPERATE WITH THE REFRIGERANT SPECIFIED IN THE REFRIGERATION ENGINEERING SUMMARY SHEET.
- PRE-PIPING**

A. ALL TUBING SHALL BE SECURELY SUPPORTED AND ANCHORED WITH CLAMPS.

B. ALL REFRIGERANT LINES SHALL BE EXTENDED TO ONE SIDE OF THE PACKAGE IN A NEAT AND ORDERLY MANNER.

C. ENDS OF LINES SHALL BE CAPPED AGAINST CONTAMINATION AFTER THE UNIT IS COMPLETED. THESE CAPS ARE TO BE OPENED ONLY AT FINAL CONNECTION OF THE PACKAGE TO FIXTURES.
- CONTROL PANEL**

A. THE PACKAGE SHALL HAVE FACTORY MOUNTED AND PRE-WIRED CONTROL PANEL COMPLETE WITH INTERLOCKED MAIN FUSED DISCONNECT, COMPRESSOR CIRCUIT BREAKERS, CONTACTORS AND TIME CLOCKS WIRED FOR SINGLE POINT POWER CONNECTION.

B. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL MAIN POWER LINES TO PANEL, AND USE WIRE HARNESS WIRING FOR CONTROL AND DEFROST HEATER BETWEEN THE DEFROST CLOCK AND THE REFRIGERATION FIXTURES, ALL IN ACCORDANCE WITH THE WIRING DIAGRAM AND LOCAL CODES.

GENERAL NOTES

- GENERAL CONTRACTOR**

A. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES.

B. GENERAL CONTRACTOR SHALL PREPARE AND WEATHERPROOFING THE PLATFORM AND CURBED OPENINGS.
- REFRIGERATION CONTRACTOR**

A. THE COMPLETE SYSTEM SHALL BE EVACUATED WITH VACUUM PUMP.

B. ALL COPPER TUBING TO BE REFRIGERANT GRADE A.C.R. OR TYPE "L".

C. CHARGE, TEST, AND ADJUST EACH UNIT TO BE IN AN OPERATIONAL SYSTEM.

D. SILVER SOLDER AND/OR SIL-FLOS SHALL BE USED FOR ALL REFRIGERANT PIPING. SOFT SOLDER IS NOT PERMITTED.

E. ALL PIPING TO BE PRESSURE TESTED WITH NITROGEN AT 300 PSI. AFTER THE CONDENSING UNIT AND COIL HAVE BEEN CONNECTED, THE BALANCE OF THE SYSTEM SHALL BE LEAK TESTED WITH ALL VALVES OPEN.

F. REFRIGERATION CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINE HEATER IN FREEZER TO BE CONNECTED BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR**

A. ELECTRICAL CONTRACTOR TO PROVIDE POWER FROM REFRIGERATION PACKAGE AND CONNECT CONTROL AND DEFROST SYSTEM AS CALLED FOR IN THE WIRING DIAGRAM.

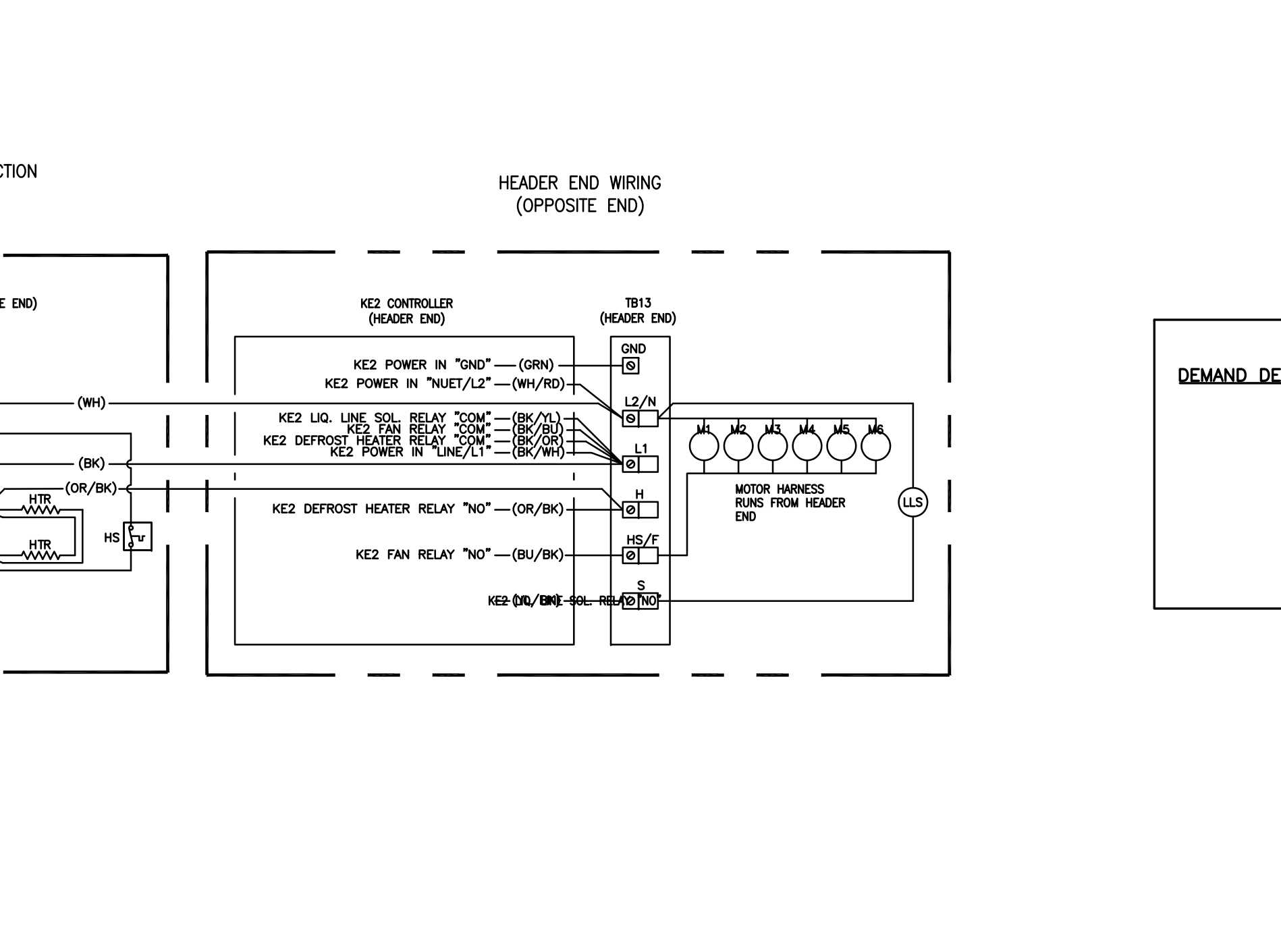
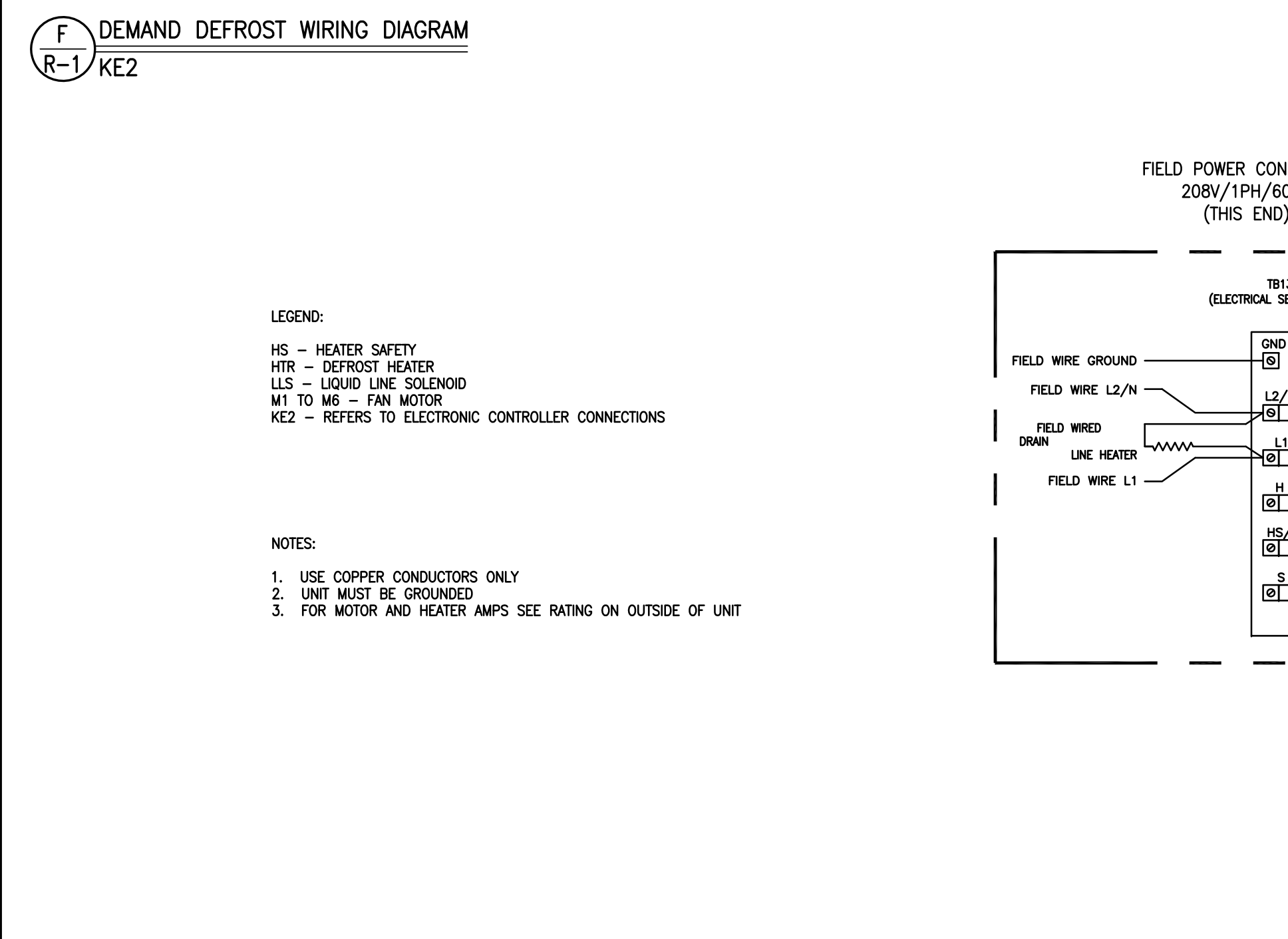
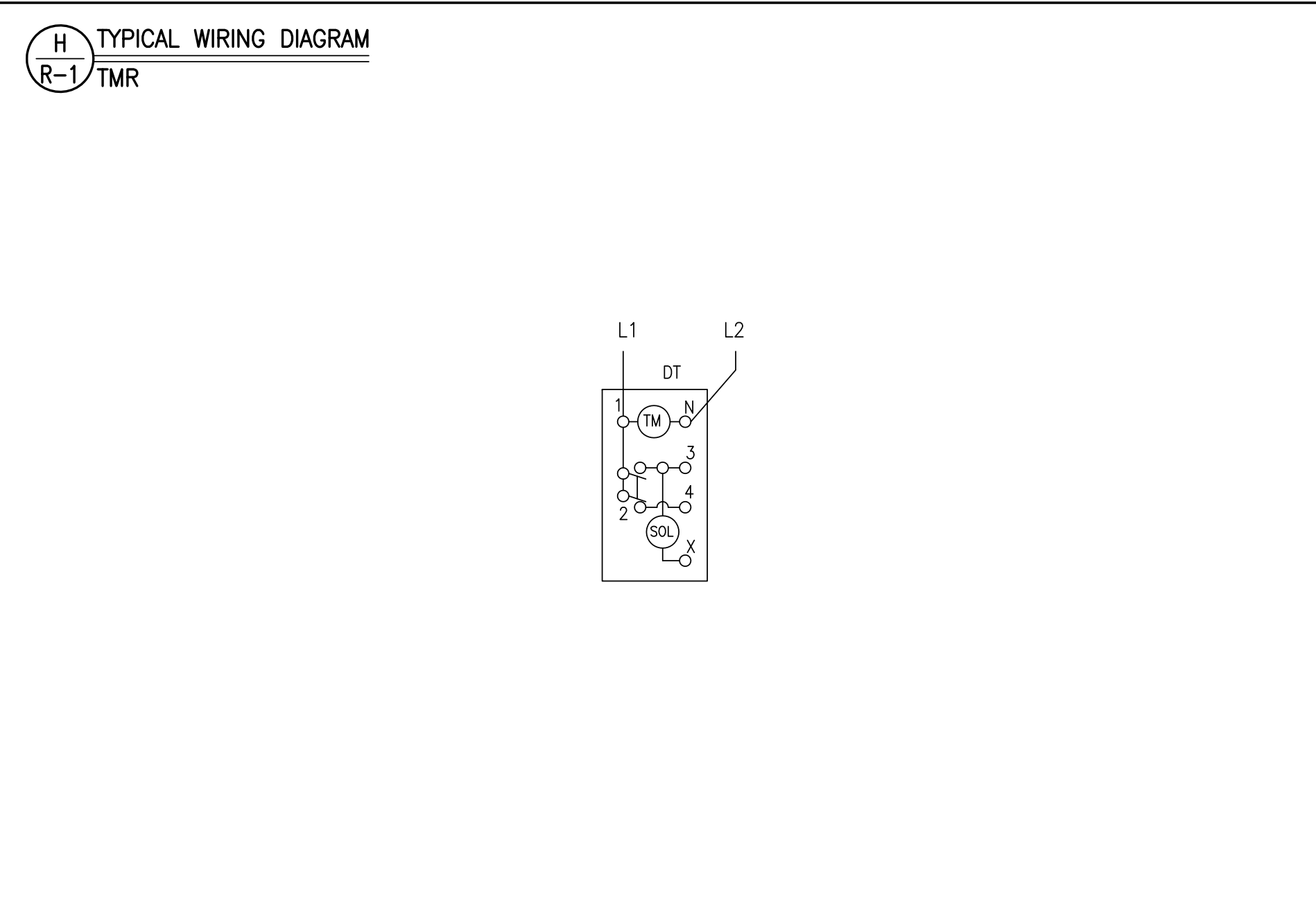
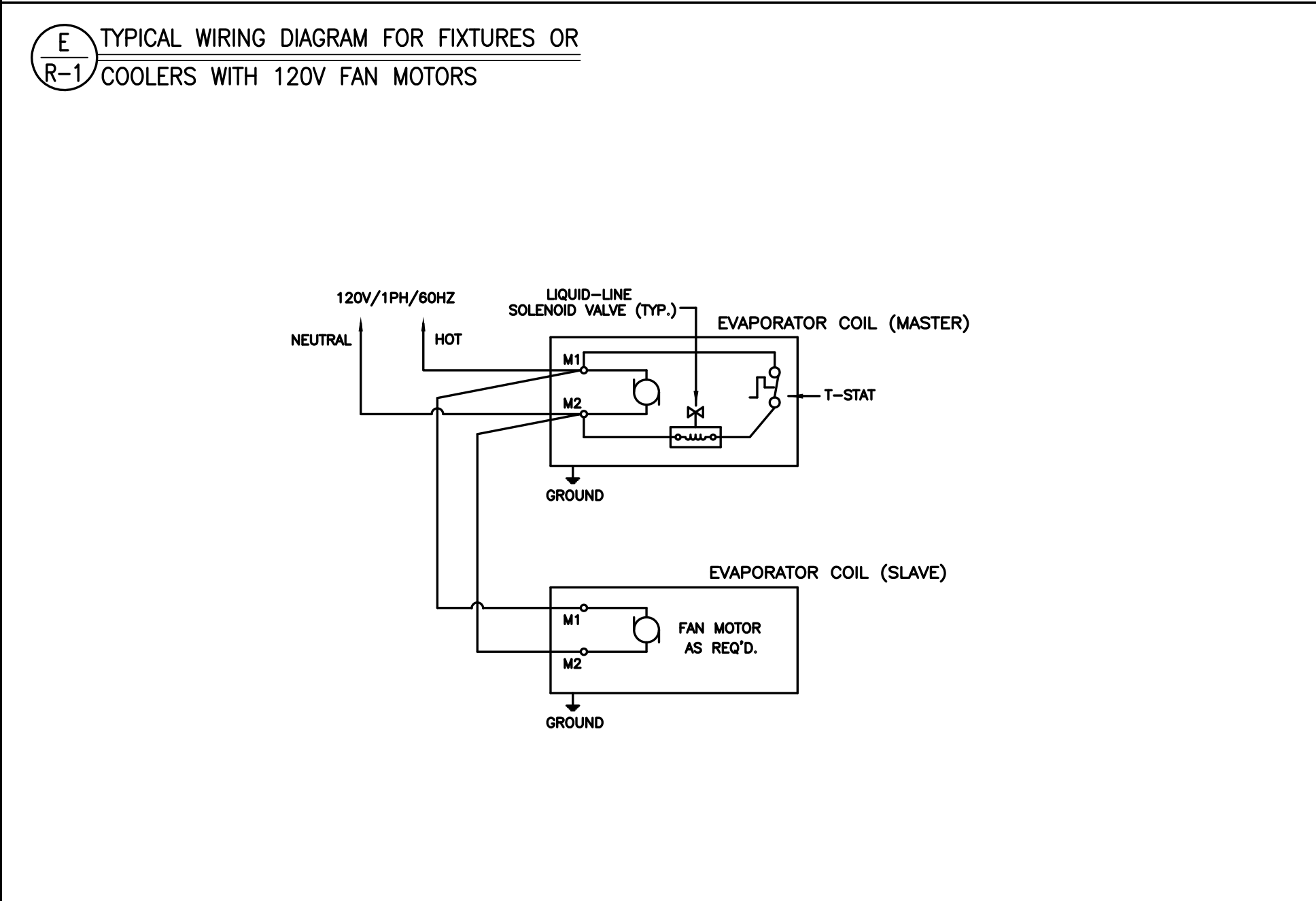
B. ELECTRICAL CONTRACTOR TO PROVIDE COLOR CODED SERVICE FROM TIME CLOCK AT THE REFRIGERATION PACKAGE TO THE EVAPORATOR IN THE FIXTURE FOR DEFROST.

C. ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WIRING DIAGRAM AND LOCAL CODES.
- PLUMBING CONTRACTOR**

A. PLUMBING CONTRACTOR TO PROVIDE HARD A.C.R. OR TYPE "L" COPPER DRAIN LINES FOR WALK-IN REFRIGERATOR AND FREEZER AS CALLED FOR IN THE WIRING DIAGRAM.

B. ELECTRICAL CONTRACTOR TO PROVIDE COLOR CODED SERVICE FROM TIME CLOCK AT THE REFRIGERATION PACKAGE TO THE EVAPORATOR IN THE FIXTURE FOR DEFROST.

C. ALL PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES.



DEMAND DEFROST POWER REQUIRED FOR EACH WALK-IN FREEZER EVAPORATOR COIL / POWER SUPPLIED BY ELECTRICAL CONTRACTOR

SYSTEM B1	AE26-92B	0.9A 208V/1PH MTRS	8.7A 208V/1PH HTRS
SYSTEM B4	AE26-75B	0.9A 208V/1PH MTRS	7.0A 208V/1PH HTRS
SYSTEM B5	AE26-92B	0.9A 208V/1PH MTRS	8.7A 208V/1PH HTRS
SYSTEM B6	AE26-75B	0.9A 208V/1PH MTRS	7.0A 208V/1PH HTRS
SYSTEM B7	AE26-92B	0.9A 208V/1PH MTRS	8.7A 208V/1PH HTRS
SYSTEM B8	AE26-75B	0.9A 208V/1PH MTRS	7.0A 208V/1PH HTRS
SYSTEM B9	AE26-75B	0.9A 208V/1PH MTRS	7.0A 208V/1PH HTRS

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED
XXX	XXX
TRACED	APPROVED
XXX	XXX
CHECKED	APPROVED
XXX	EFW

SIGNED: \_\_\_\_\_ EXPIRES: \_\_\_\_\_

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJWW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

ISSUED FOR CONSTRUCTION

FOOD SERVICE EQUIPMENT - REFRIGERATION SYSTEMS

CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE

PROJECT NO. CDB 810-048-023

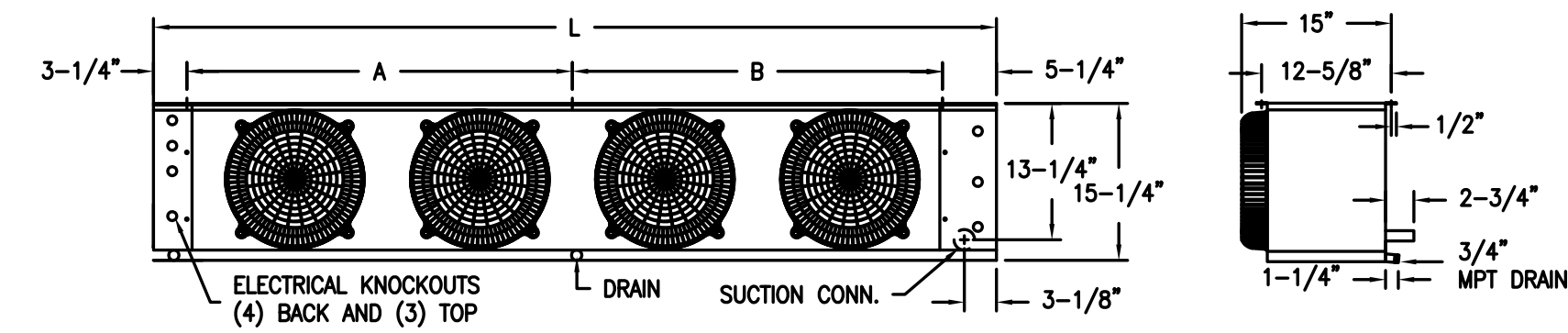
DATE DEC. 12, 2014

SHEET NO. FSE-129 OF SHEETS





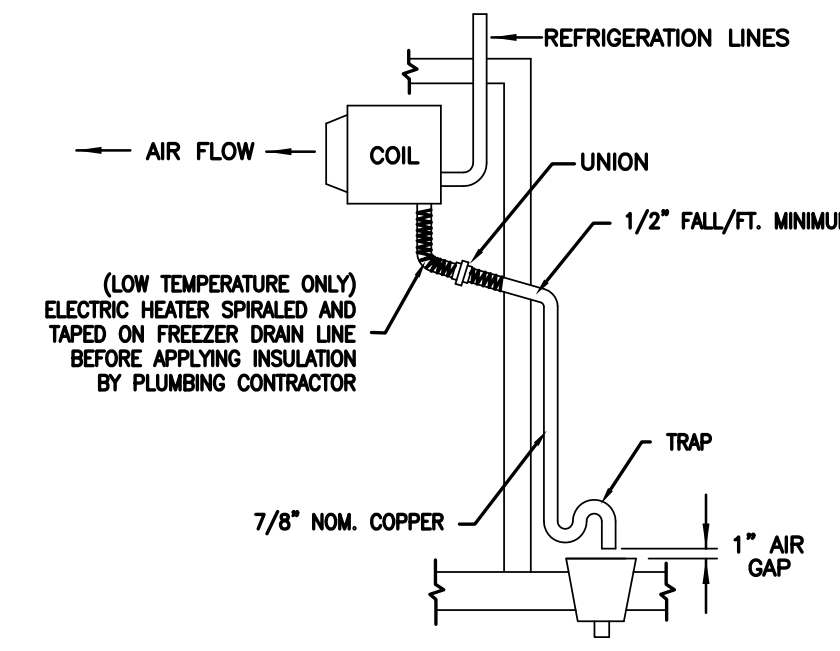
**D** EVAPORATOR COILS  
**R-4** ALL-TEMP MODELS



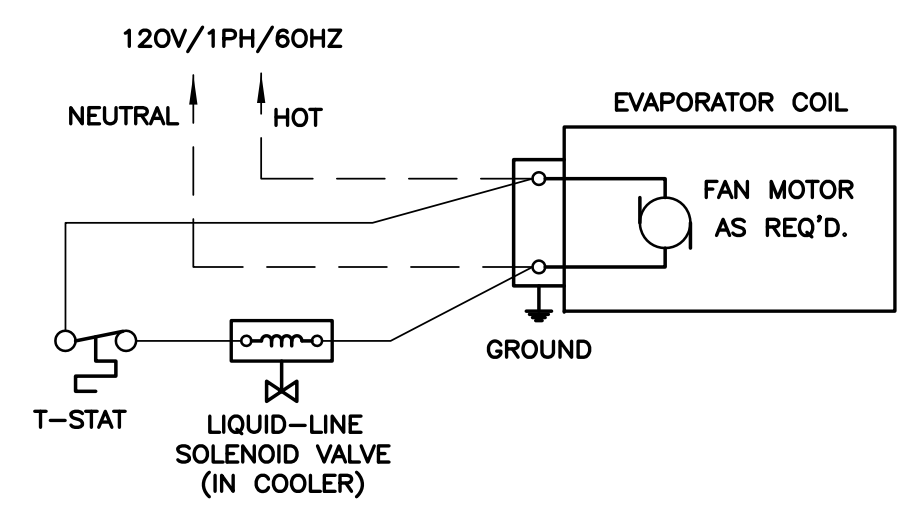
UL US MEA

SYSTEM	TECH. NO.	MODEL NO.	COILS	HP	MB	A	B	L	WEIGHT (LBS. EACH)
A1	294	AA28-106B	1	2	37"	-	45-1/2"	58	
A2	198	AA26-87B	1	3	33"	-	41-1/2"	55	
A3	71	AA36-145B	1	3	55"	-	63-1/2"	78	
A12	3	AA28-106B	1	2	37"	-	45-1/2"	58	
B1	294	AE26-92B	1	2	37"	-	45-1/2"	62	
B2	198	AE26-92B	1	2	37"	-	45-1/2"	62	
B3	71	AE26-92B	1	2	37"	-	45-1/2"	62	
B4	3	AE34-105B	1	3	37"	-	45-1/2"	55	

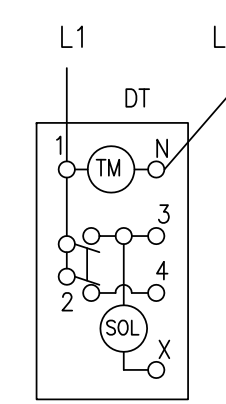
**G** DRAIN LINE DETAIL  
**R-4**



**E** TYPICAL WIRING DIAGRAM FOR FIXTURES OR COOLERS WITH 120V FAN MOTORS  
**R-4**



**H** TYPICAL WIRING DIAGRAM  
**R-4** TMR

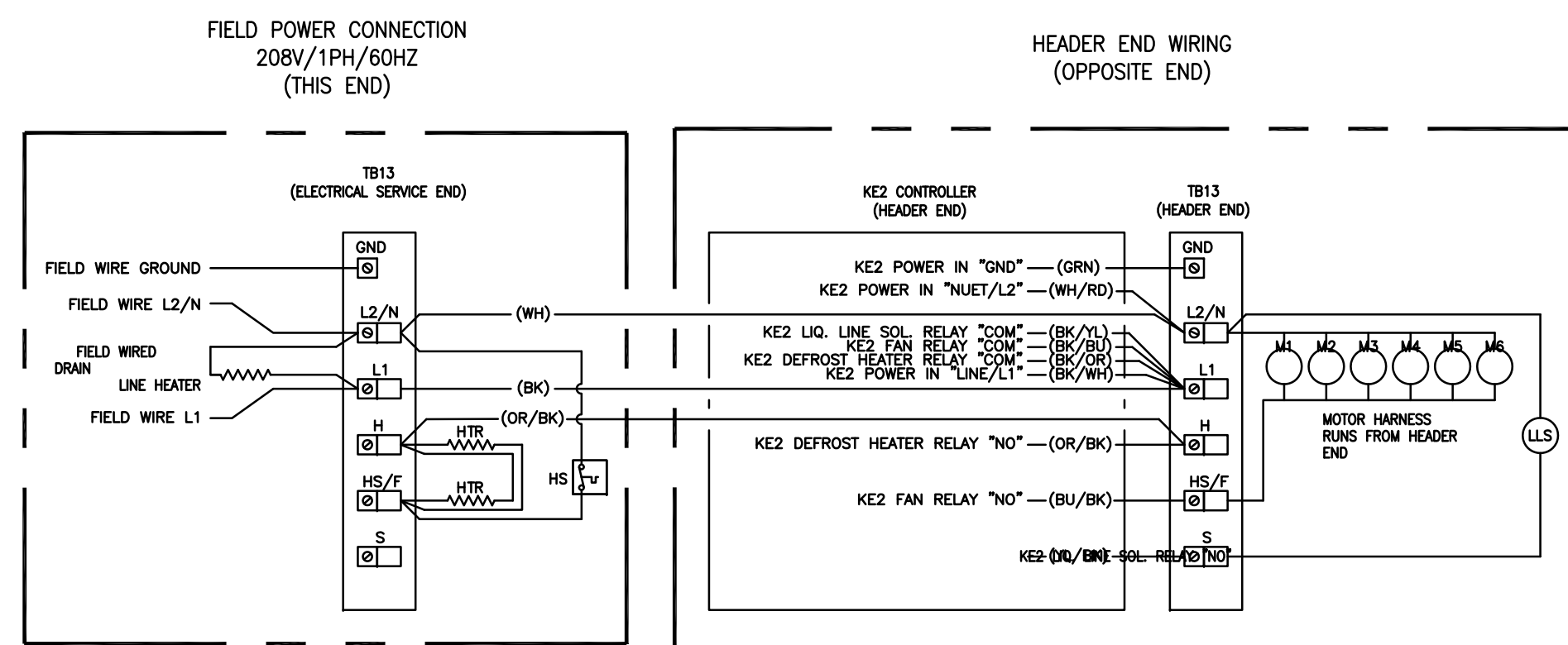


**F** DEMAND DEFROST WIRING DIAGRAM  
**R-4** KE2

DEMAND DEFROST POWER REQUIRED FOR EACH WALK-IN FREEZER EVAPORATOR COIL / POWER SUPPLIED BY ELECTRICAL CONTRACTOR			
SYSTEM B1	AE26-92B	0.9A 208V/1PH MOTORS	8.7A 208V/1PH HEATERS
SYSTEM B2	AE26-92B	0.9A 208V/1PH MOTORS	8.7A 208V/1PH HEATERS
SYSTEM B3	AE26-92B	0.9A 208V/1PH MOTORS	8.7A 208V/1PH HEATERS
SYSTEM B4	AE34-105B	1.4A 208V/1PH MOTORS	13.0A 208V/1PH HEATERS

LEGEND:  
 HS - HEATER SAFETY  
 HIR - DEFROST HEATER  
 LLS - LIQUID LINE SOLENOID  
 M1 TO M6 - FAN MOTOR  
 KE2 - REFERS TO ELECTRONIC CONTROLLER CONNECTIONS

NOTES:  
 1. USE COPPER CONDUCTORS ONLY  
 2. UNIT MUST BE GROUNDED  
 3. FOR MOTOR AND HEATER AMPS SEE RATING ON OUTSIDE OF UNIT



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS			DRAWN	PREPARED
NO.	DESCRIPTION	DATE	XXX	XXX
1	Issued for Construction	07/31/15	XXX	XXX
2			XXX	EFW

**dkA** DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

**KJWW** KJWW ENGINEERING  
 1100 WARRENVILLE ROAD, #400W  
 NAPERVILLE, IL 60563  
 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
 568 ANN STREET  
 BIRMINGHAM, MI 48009  
 T: 248.644.0990

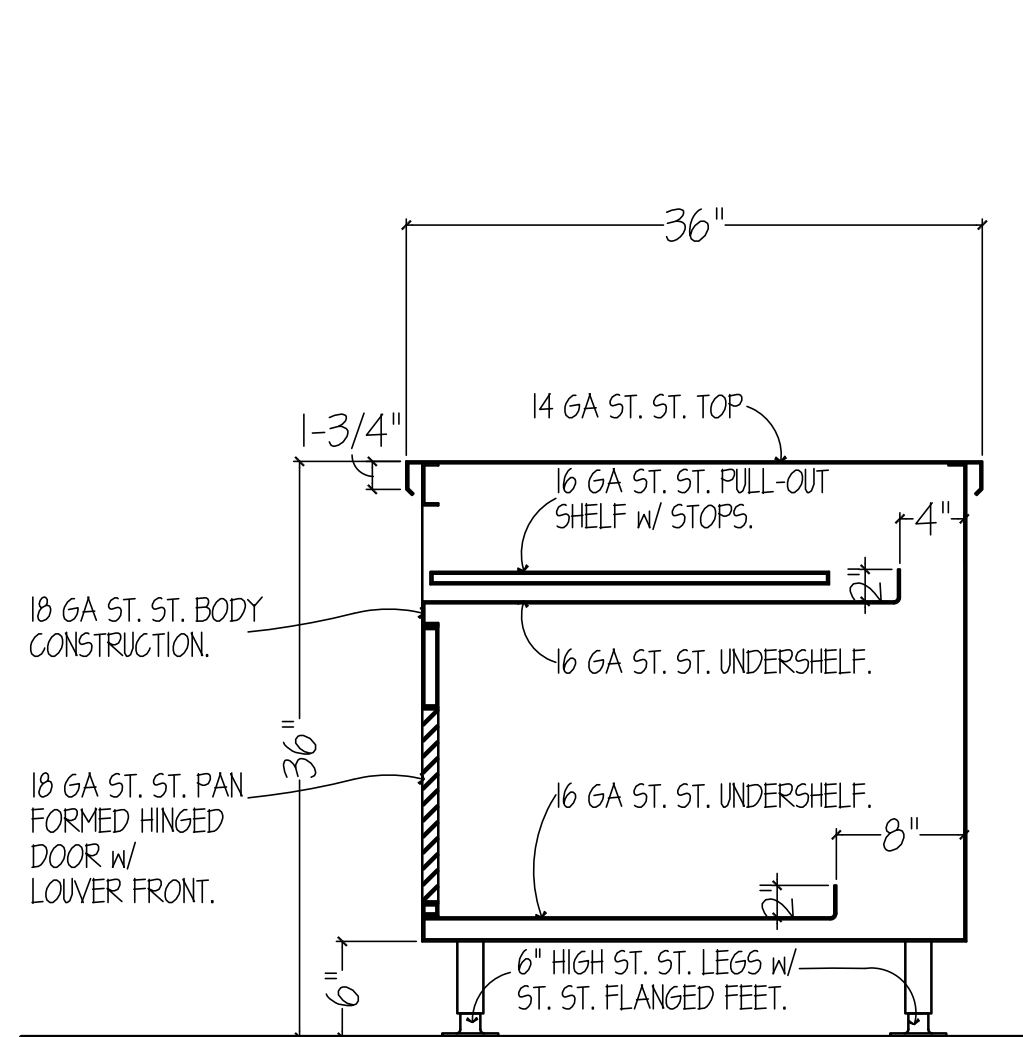
<b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - REFRIGERATION SYSTEMS</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-131</b> OF SHEETS

5 LEVEL 5 - PRODUCTION KITCHEN  
1" = 1'-0"

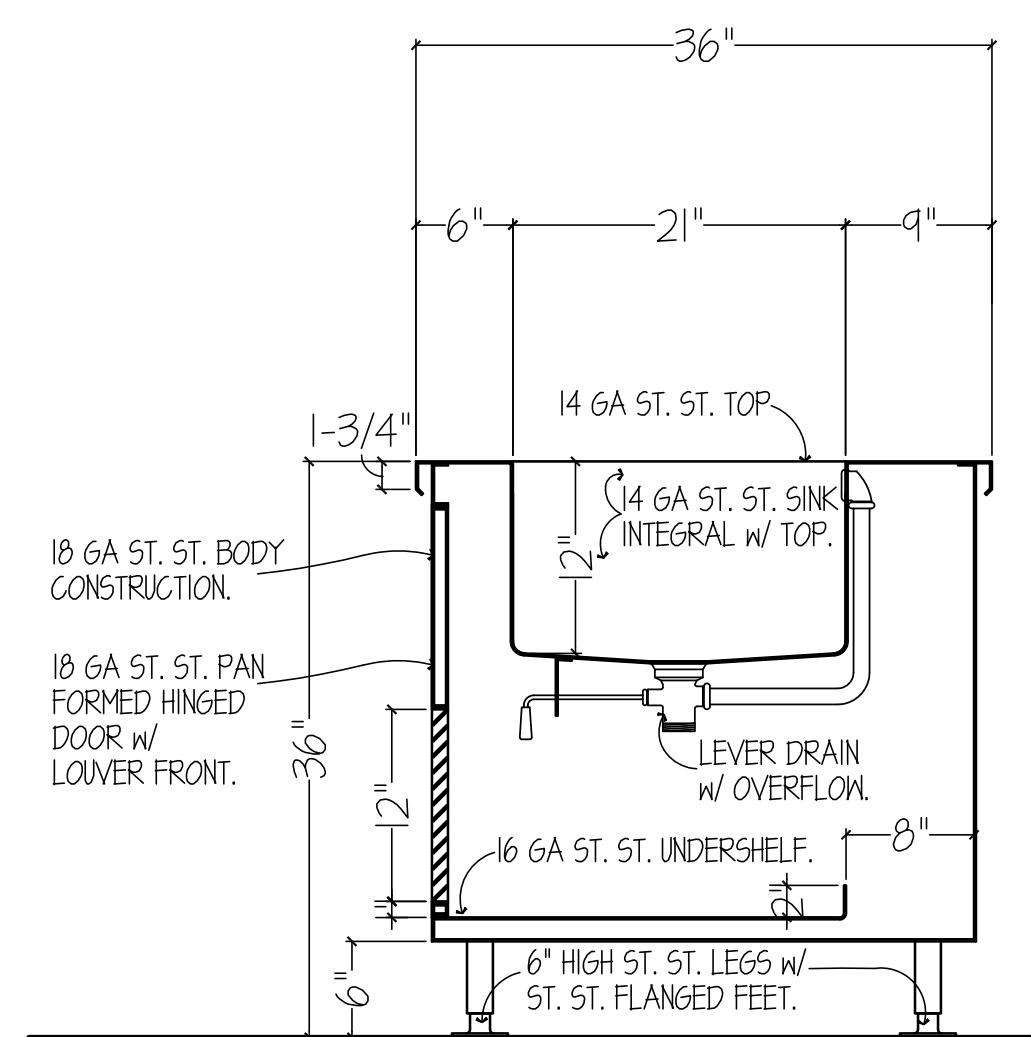
0' .5' 1'

5 LEVEL 5 - PRODUCTION KITCHEN  
1/2" = 1'-0"

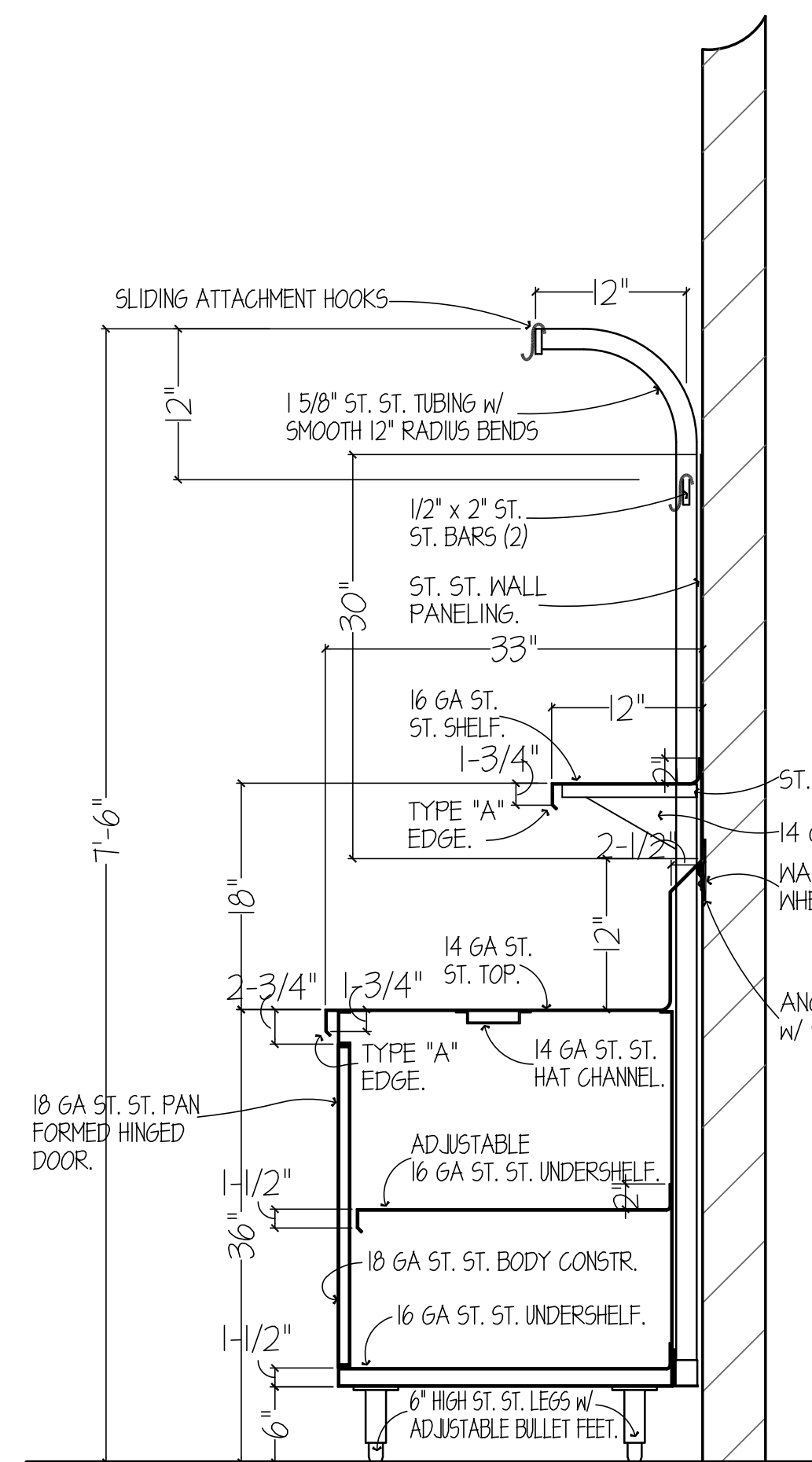
0' 1' 2'



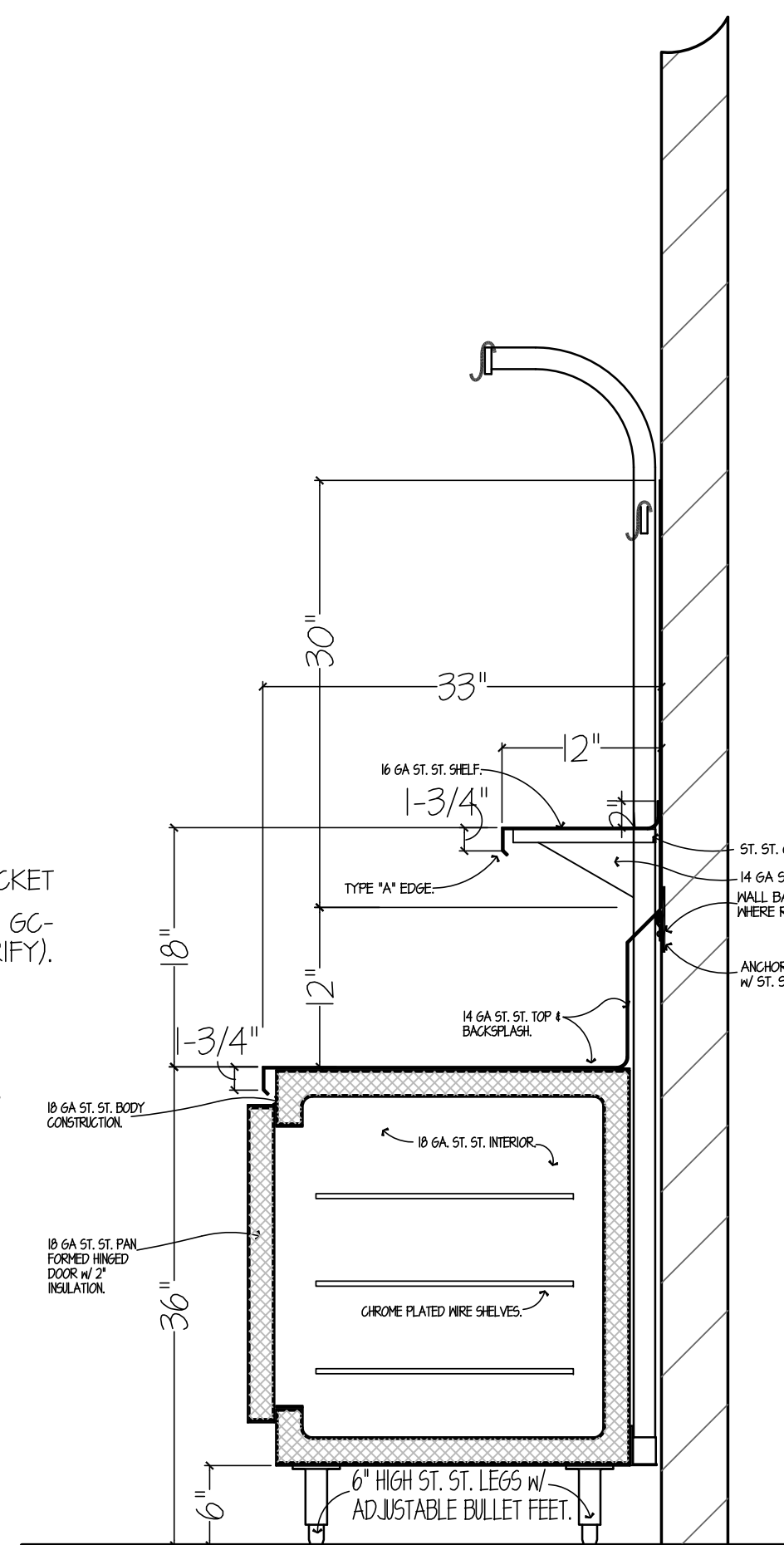
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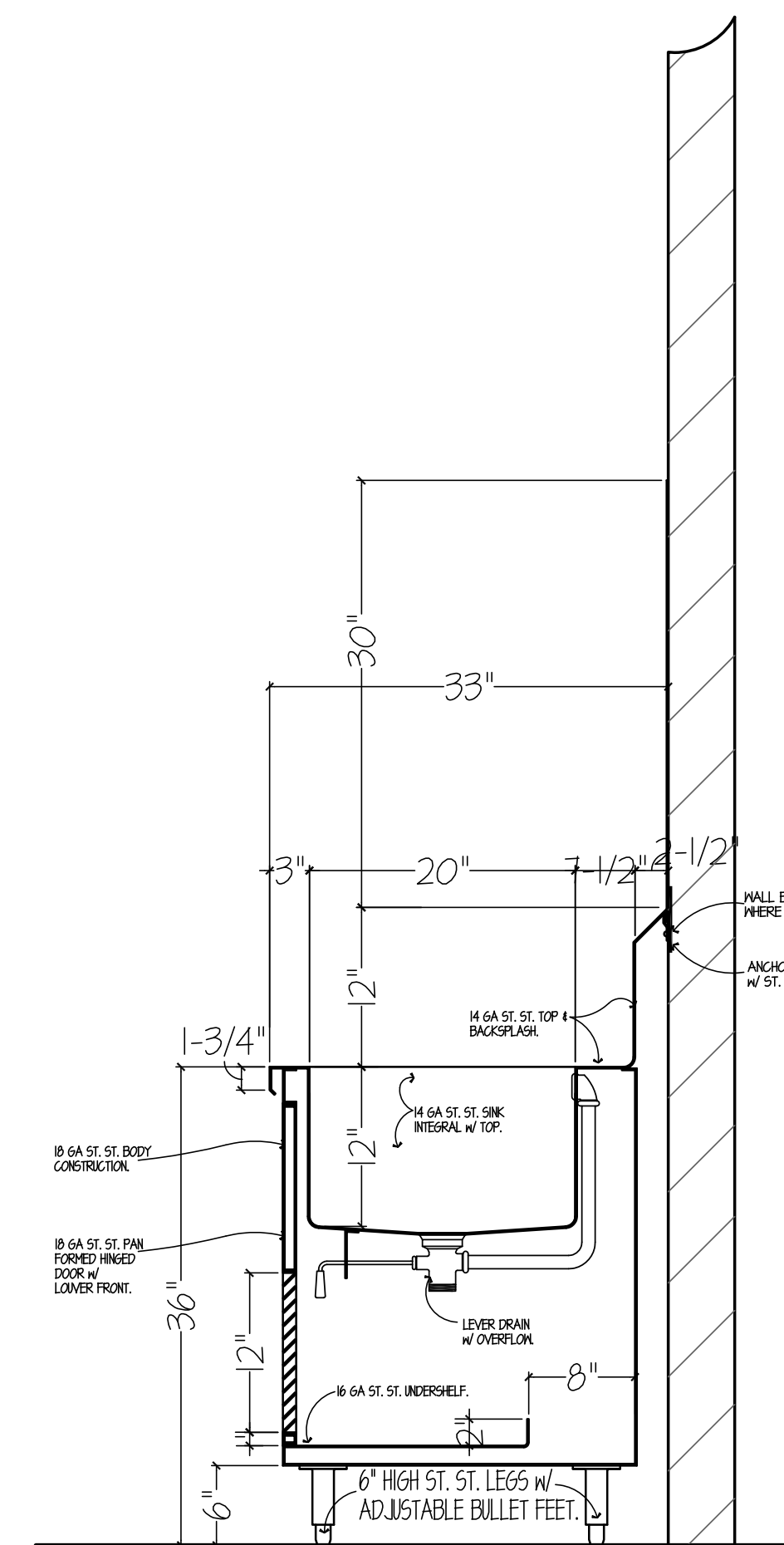
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SCALE 1"=1'-0"



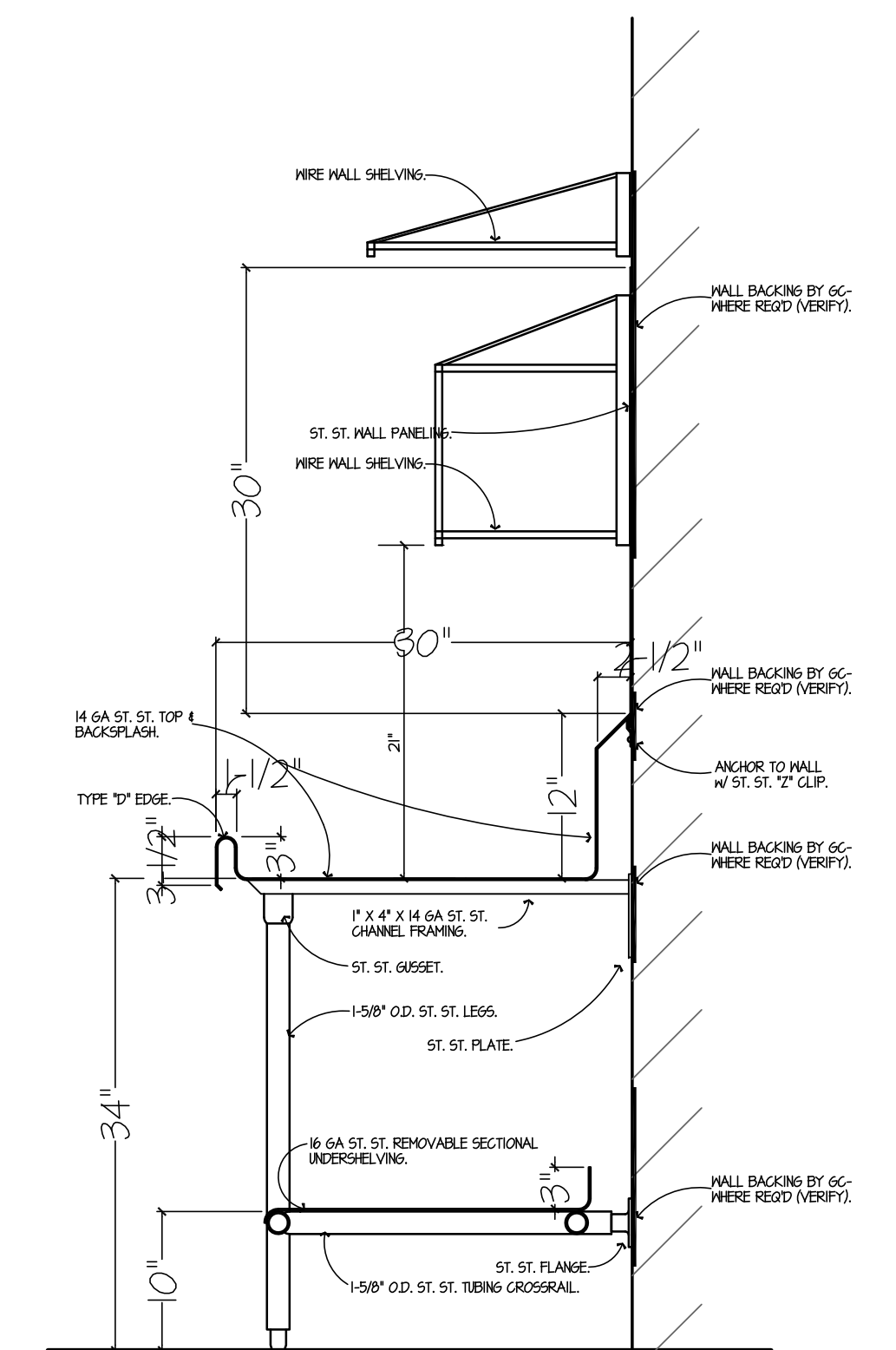
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SCALE 1"=1'-0"



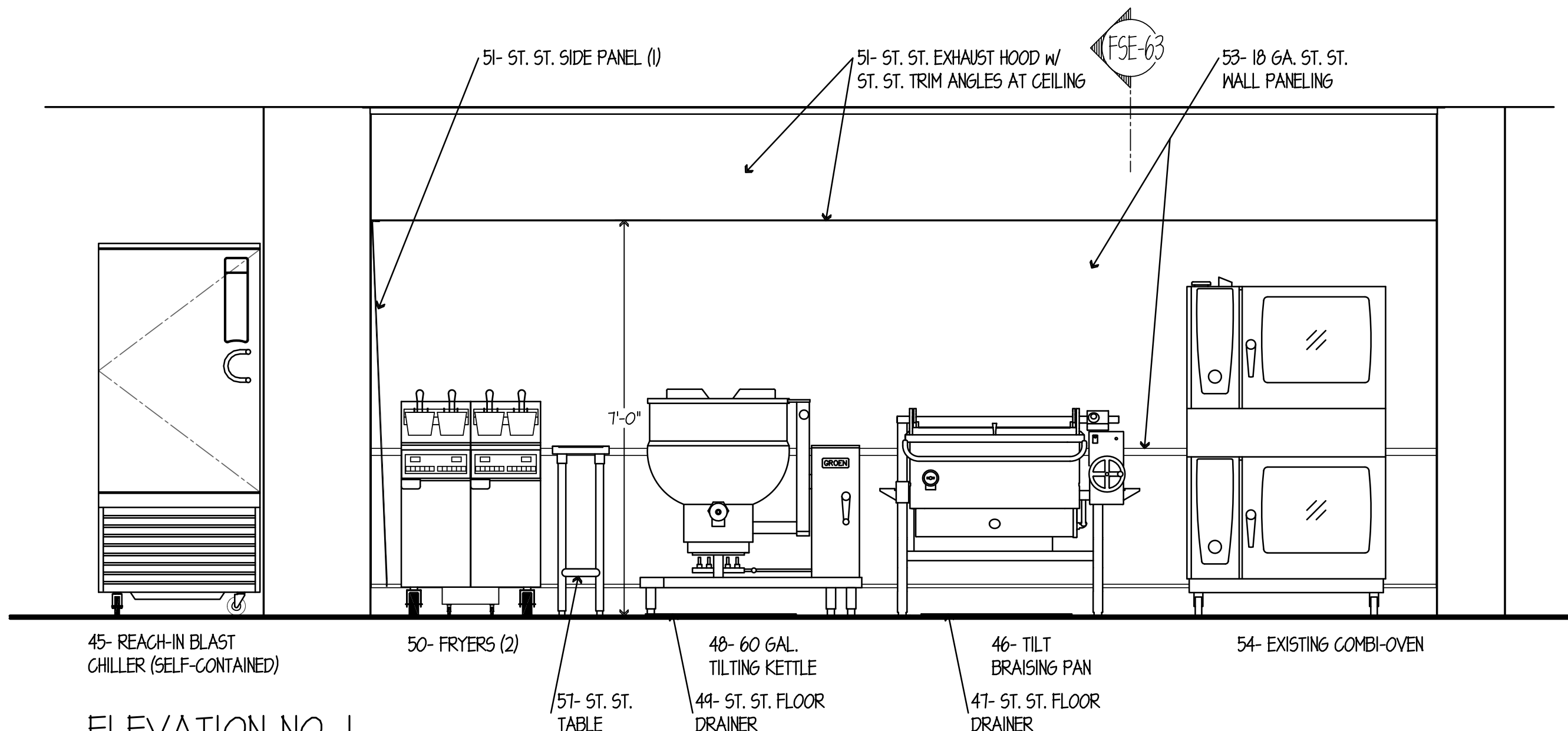
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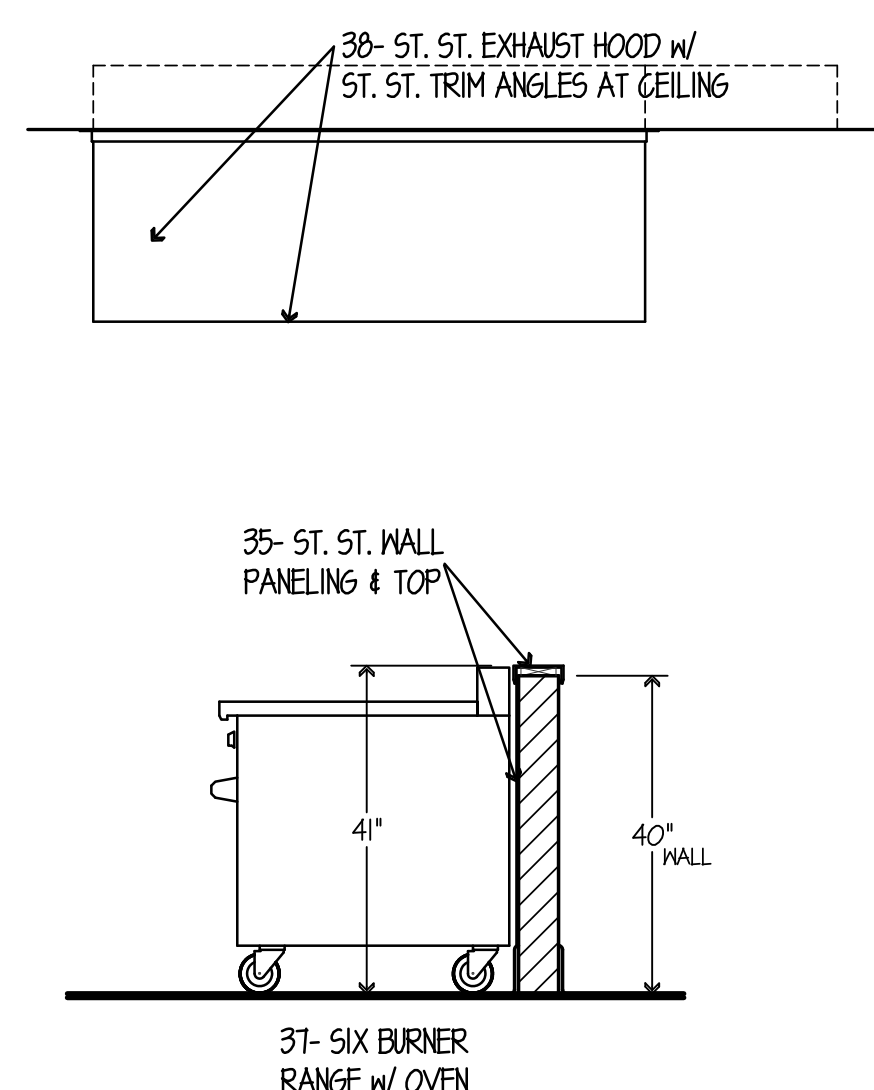
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SCALE 1"=1'-0"



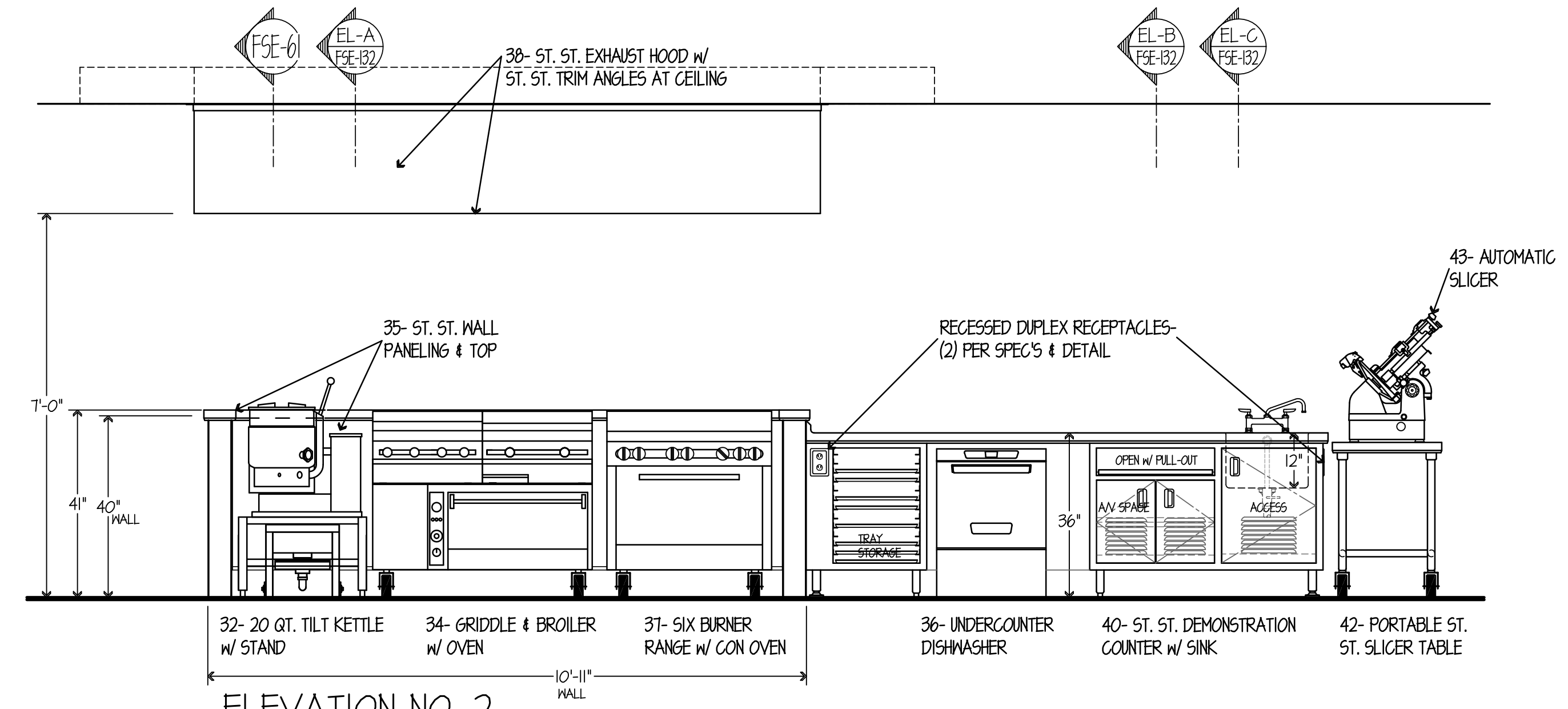
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SCALE 1"=1'-0"



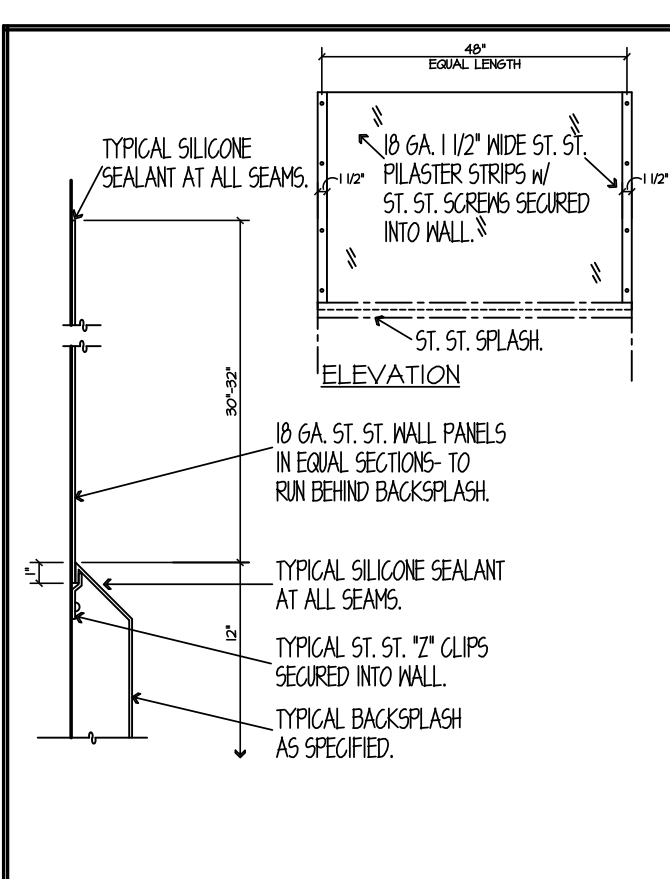
ELEVATION NO. 1  
SCALE 1/2"=1'-0"



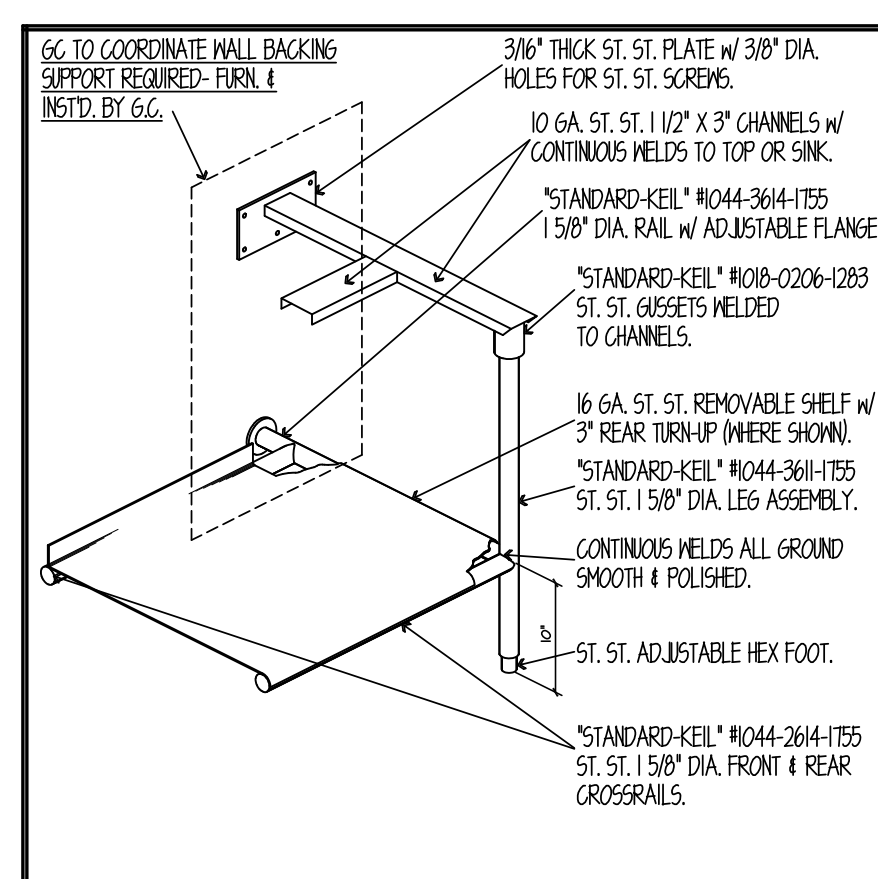
SECTION "EL-A"  
SCALE 1/2"=1'-0"



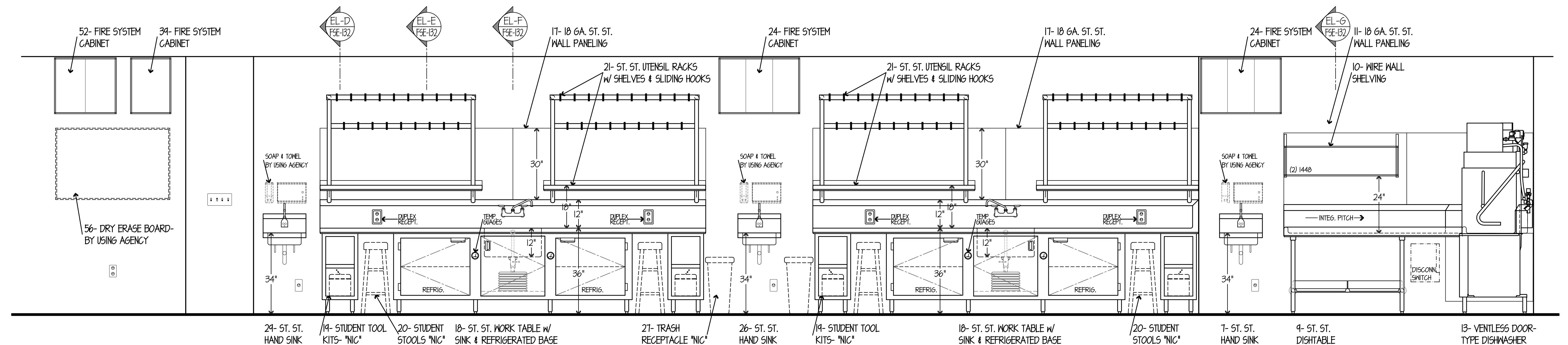
ELEVATION NO. 2  
SCALE 1/2"=1'-0"



WALL PANELING DETAIL  
NO SCALE



SINGLE LEG SUPPORT DETAIL  
NO SCALE



ELEVATION NO. 3  
SCALE 1/2"=1'-0"

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELEVATION DETAILS</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-132</b>
		OF SHEETS

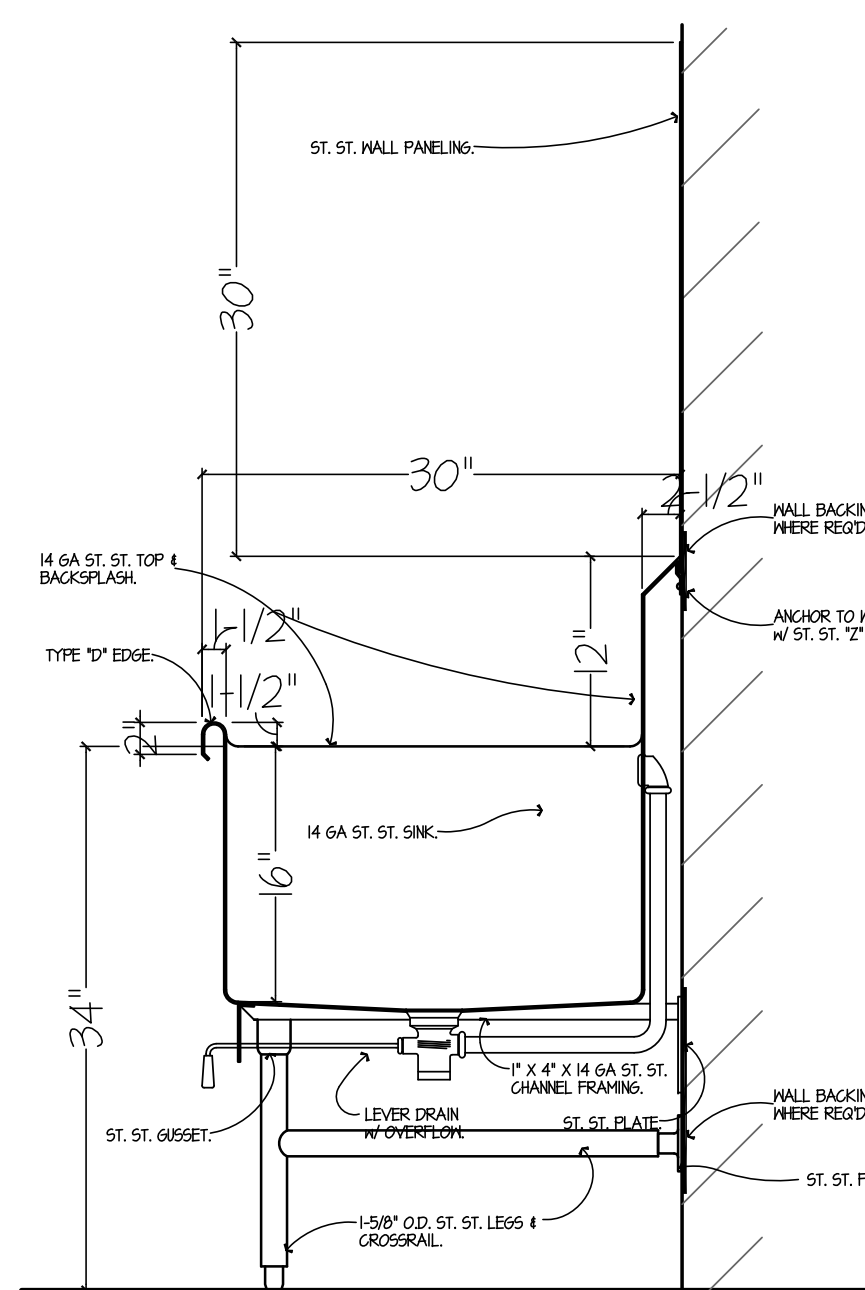


5 LEVEL 5 - PRODUCTION KITCHEN  
1" = 1'-0"

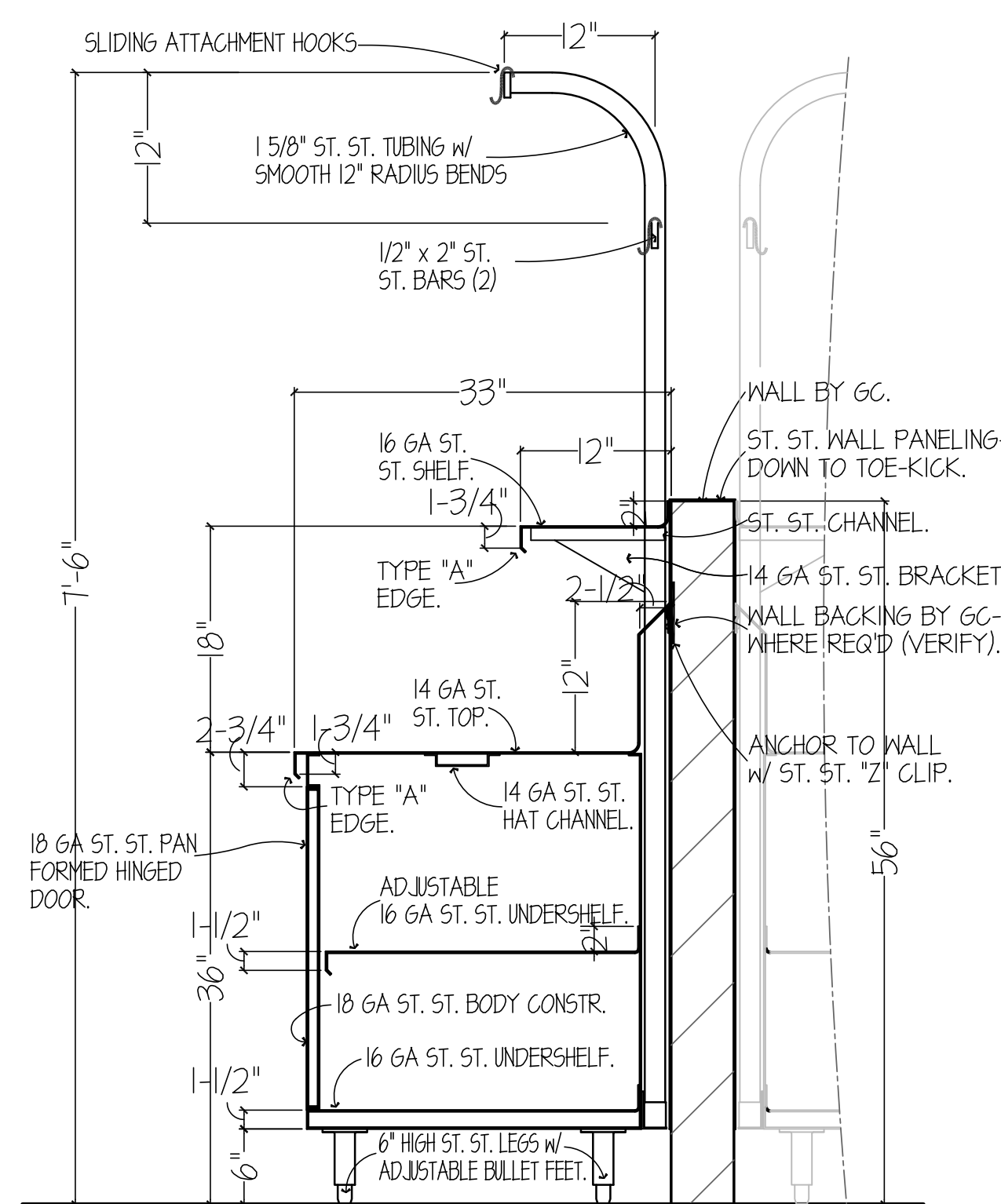
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5 LEVEL 5 - PRODUCTION KITCHEN  
1/2" = 1'-0"

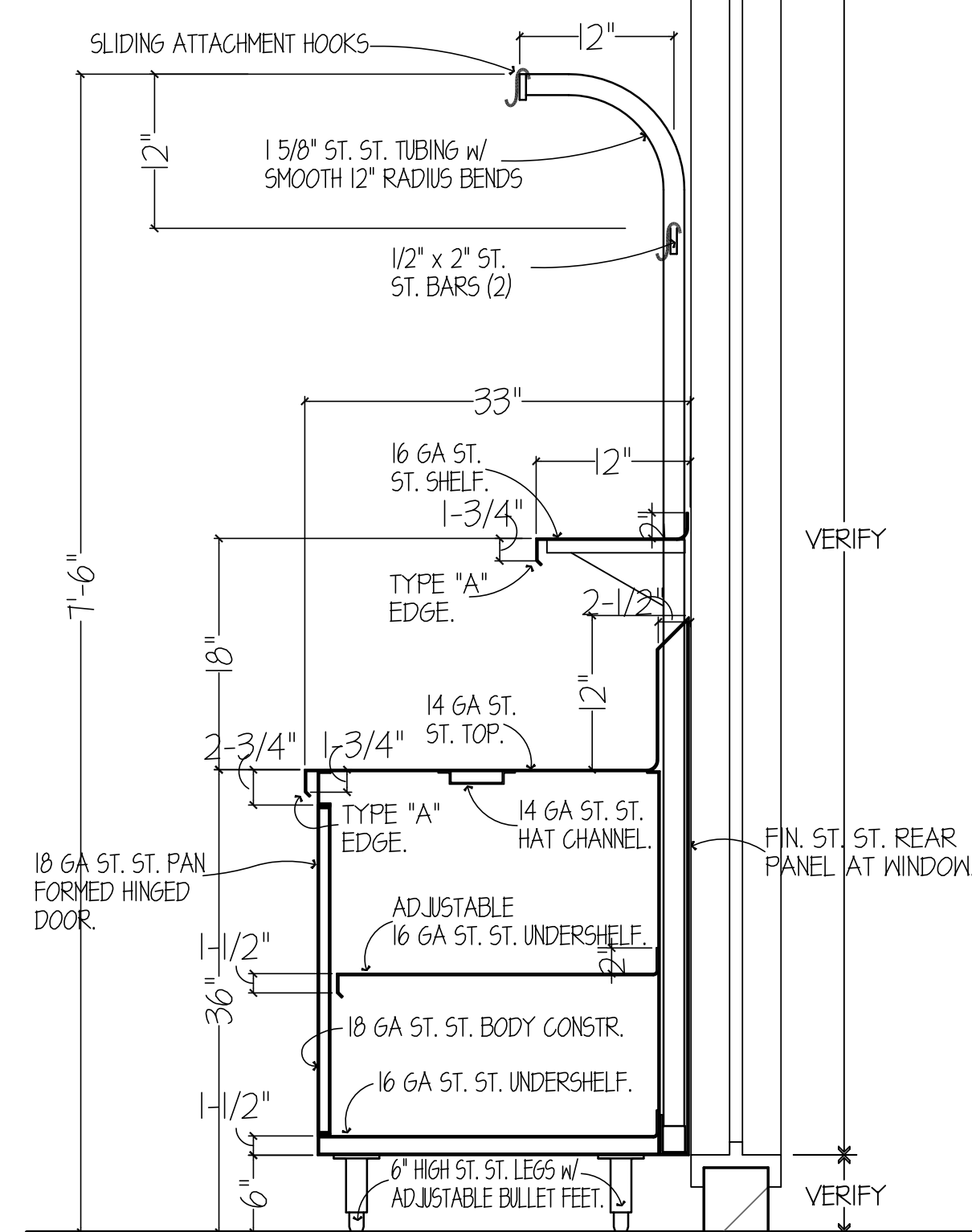
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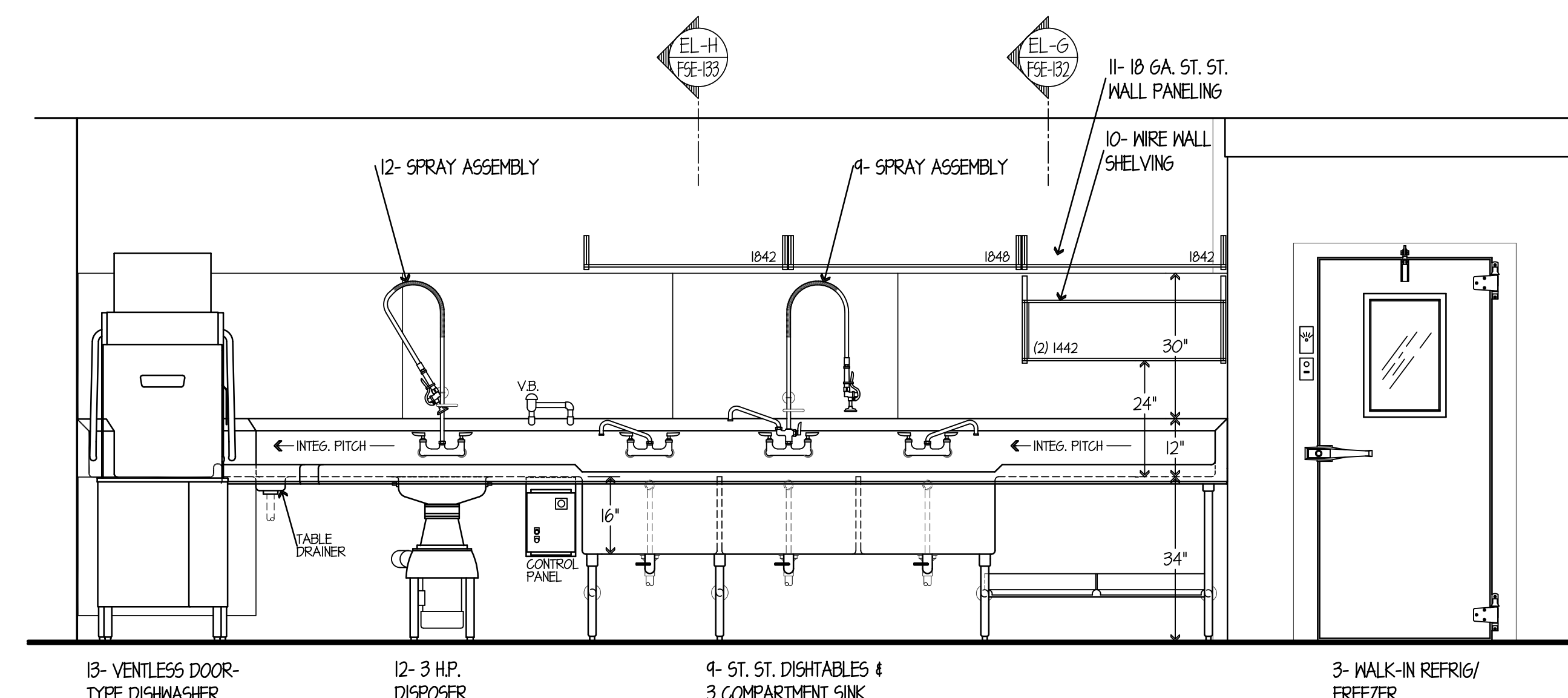
SECTION "EL-H"  
SCALE 1"=1'-0"



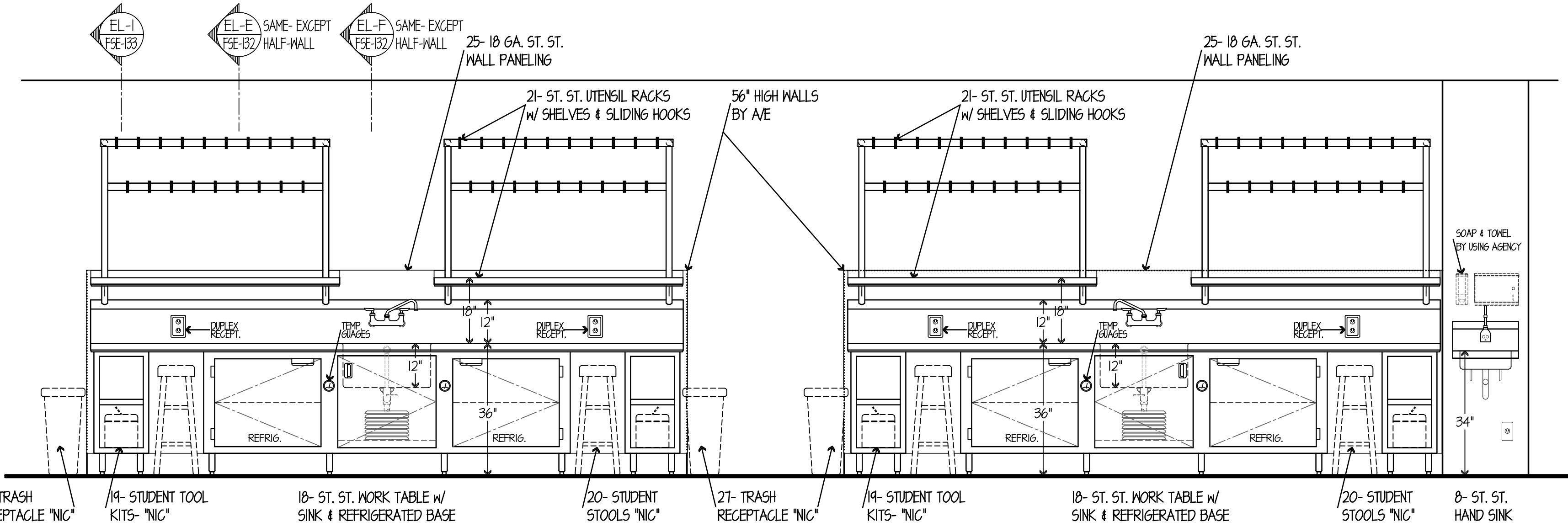
SECTION "EL-I"  
SCALE 1"=1'-0"



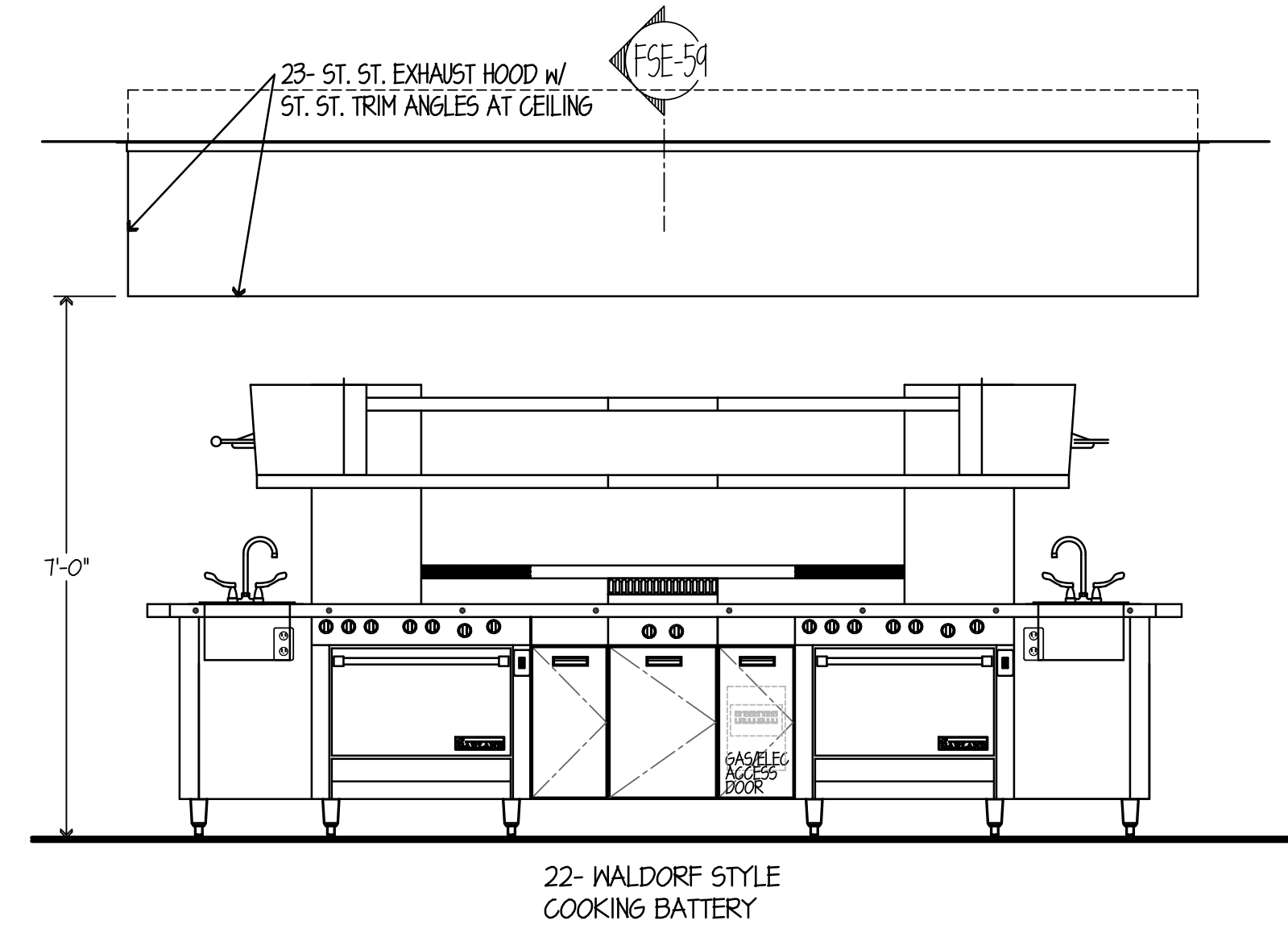
SECTION "EL-I-2"  
SCALE 1"=1'-0"



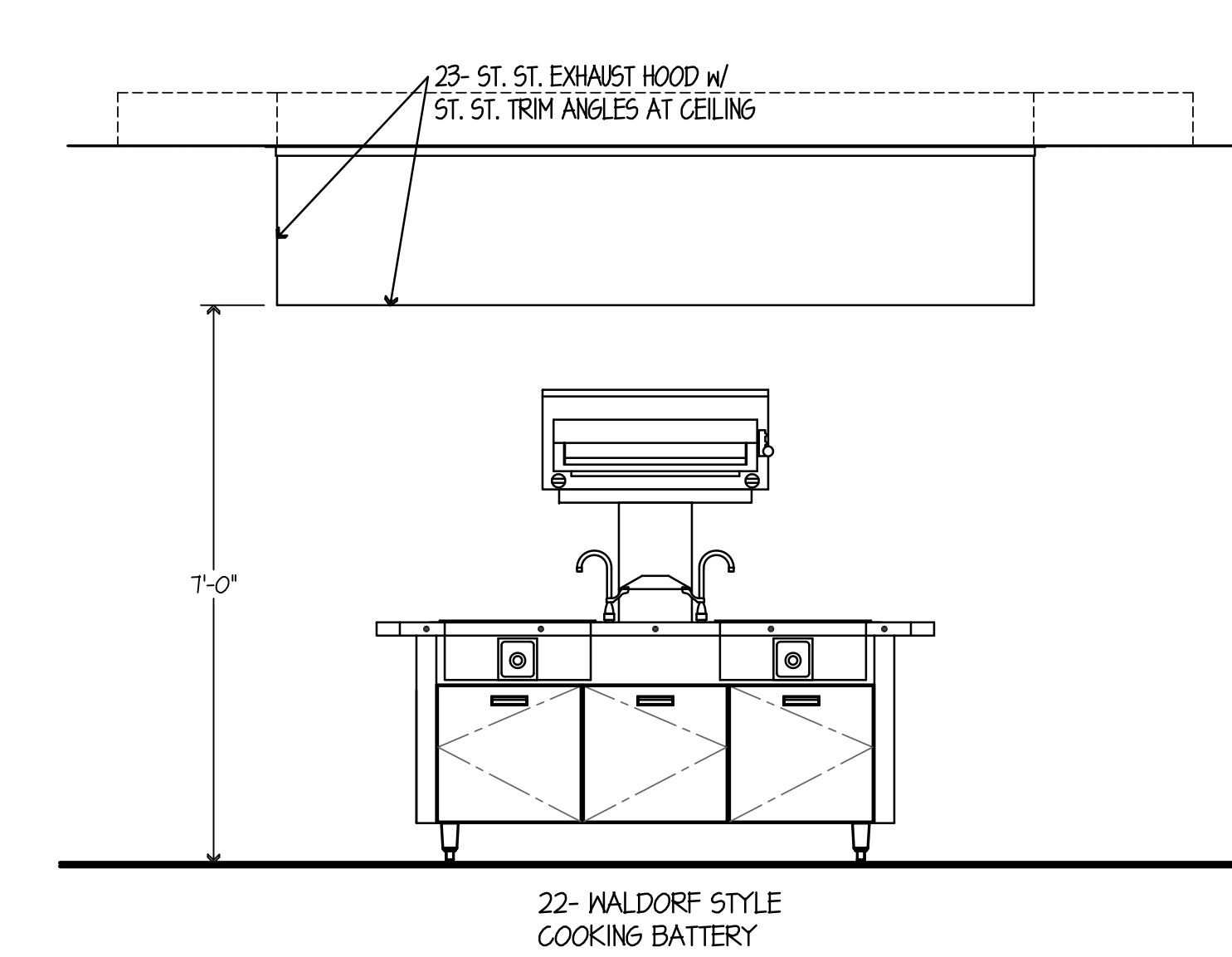
ELEVATION NO. 4  
SCALE 1/2"=1'-0"



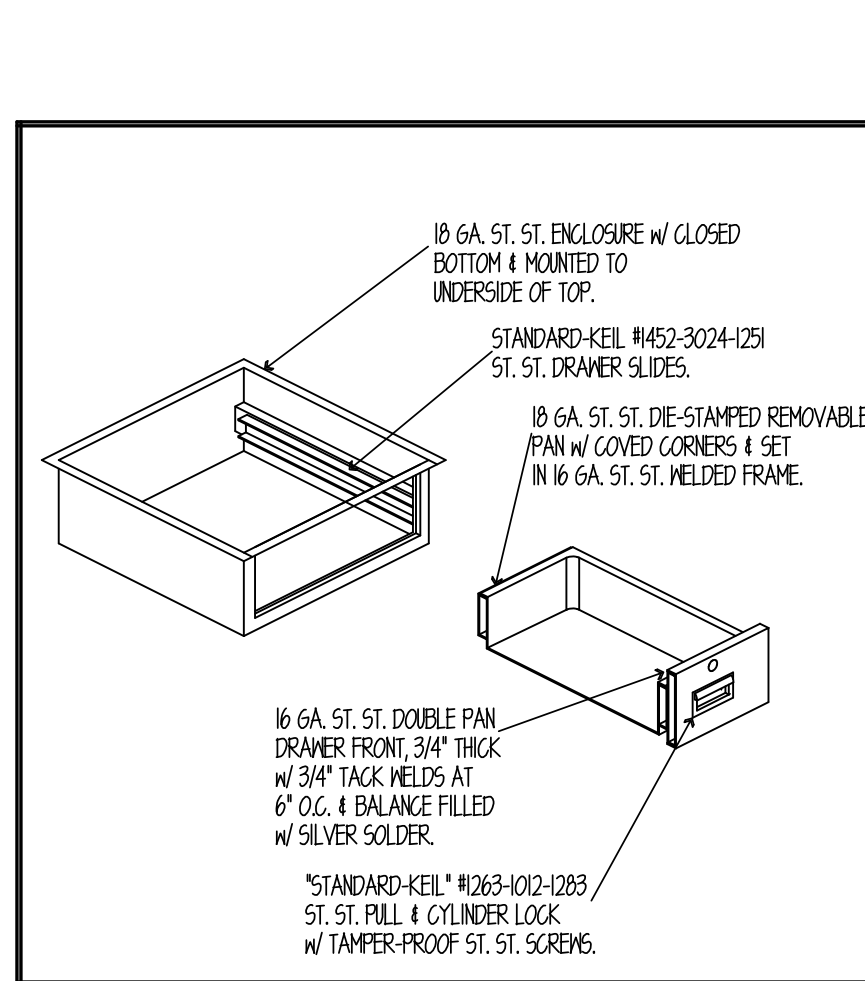
ELEVATION NO. 5  
SCALE 1/2"=1'-0"



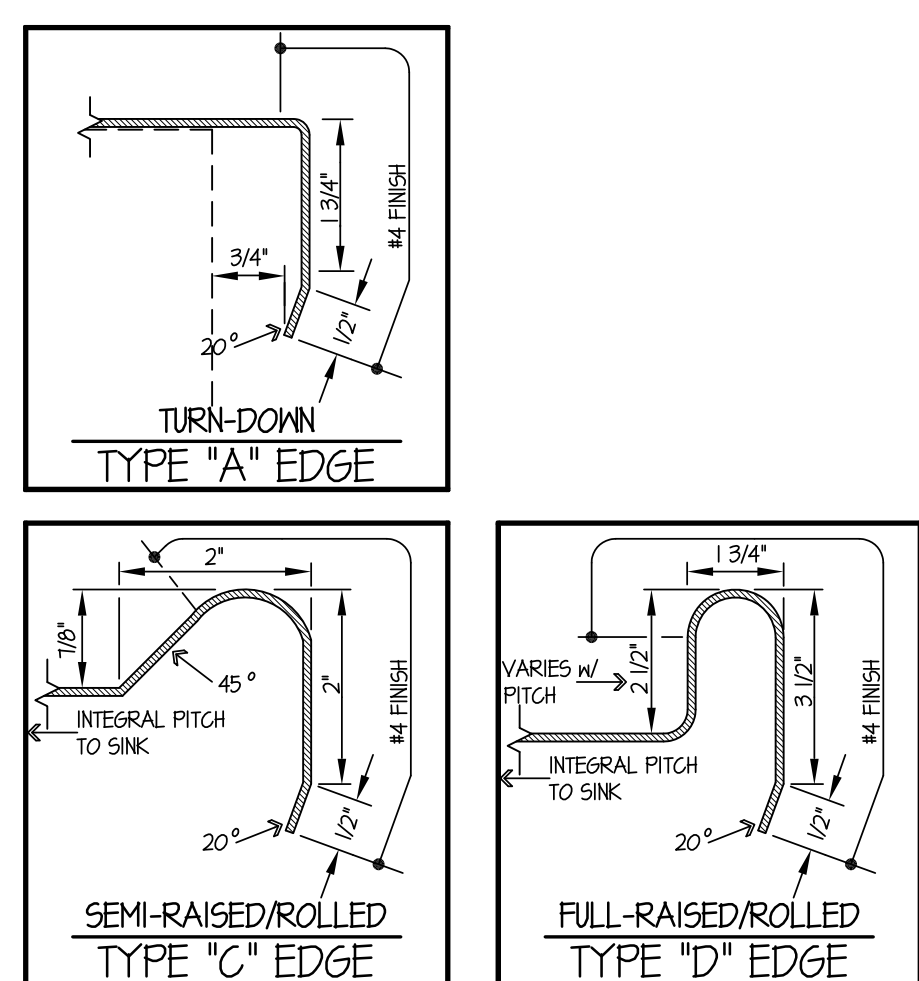
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SCALE 1/2"=1'-0"



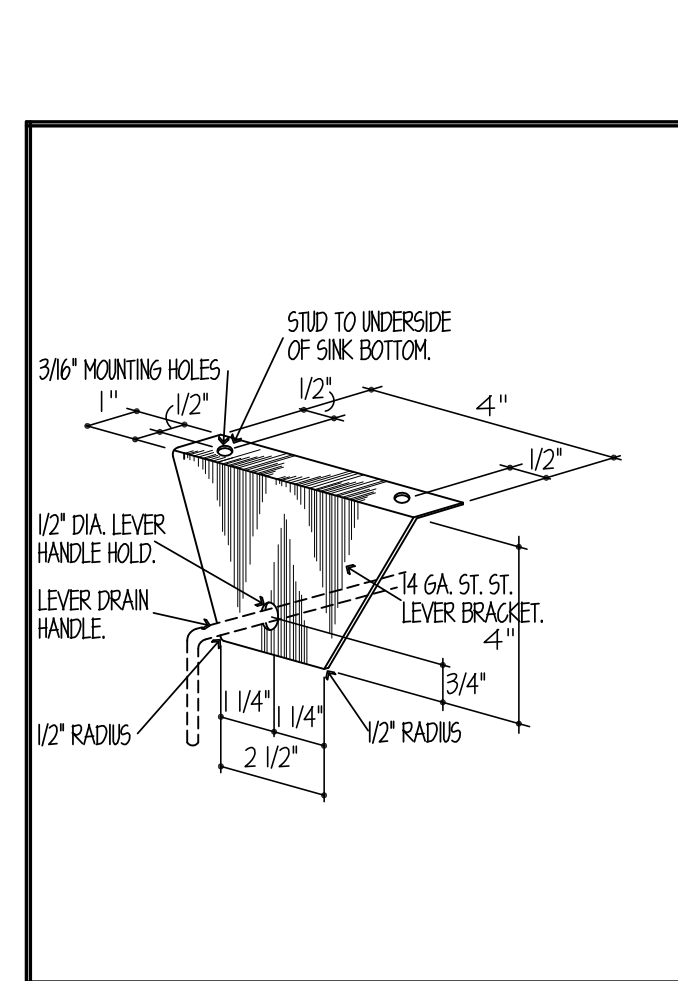
ELEVATION NO. 7  
SCALE 1/2"=1'-0"



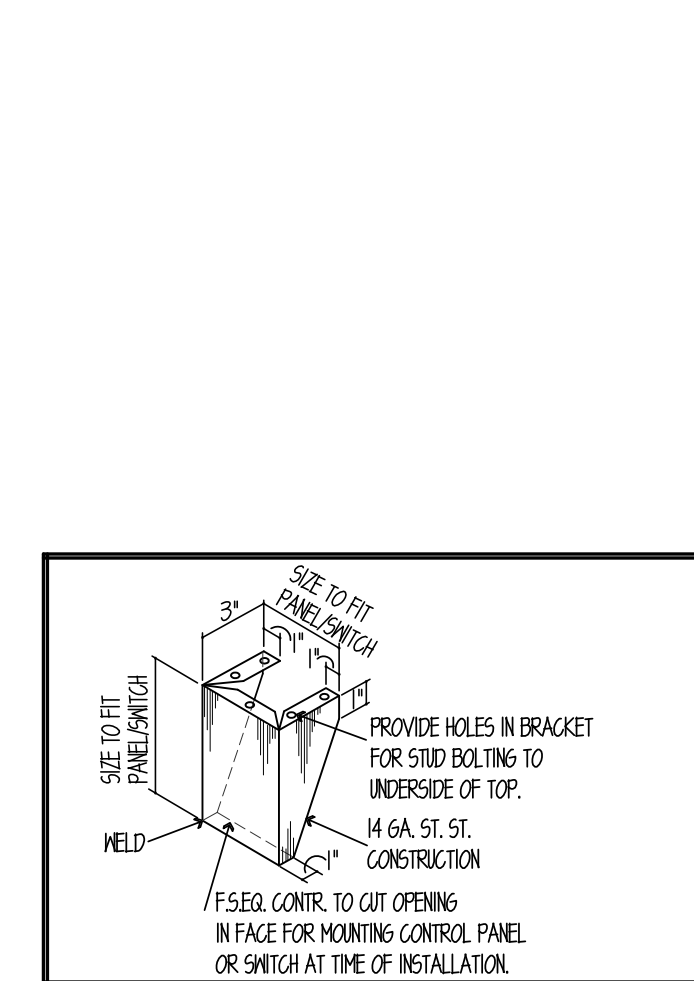
SINGLE DRAWER DETAIL  
NO SCALE



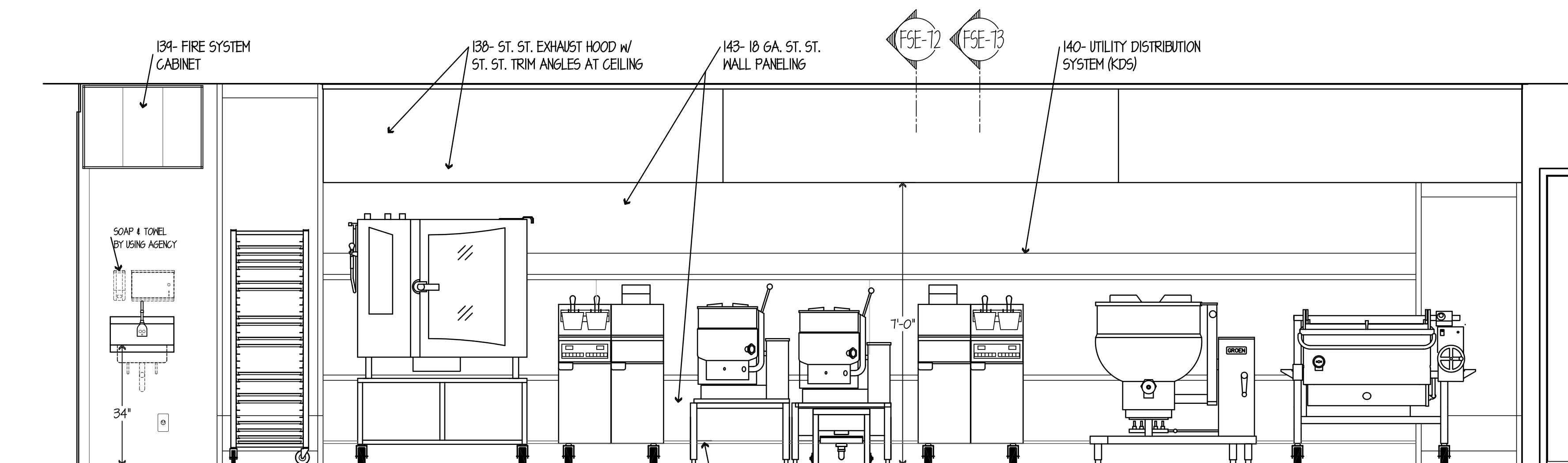
STANDARD EDGE DETAILS  
NO SCALE



LEVER HANDLE DETAIL  
NO SCALE



CONTROL PANEL  
BRACKET DETAIL  
NO SCALE



ELEVATION NO. 8  
SCALE 1/2"=1'-0"

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
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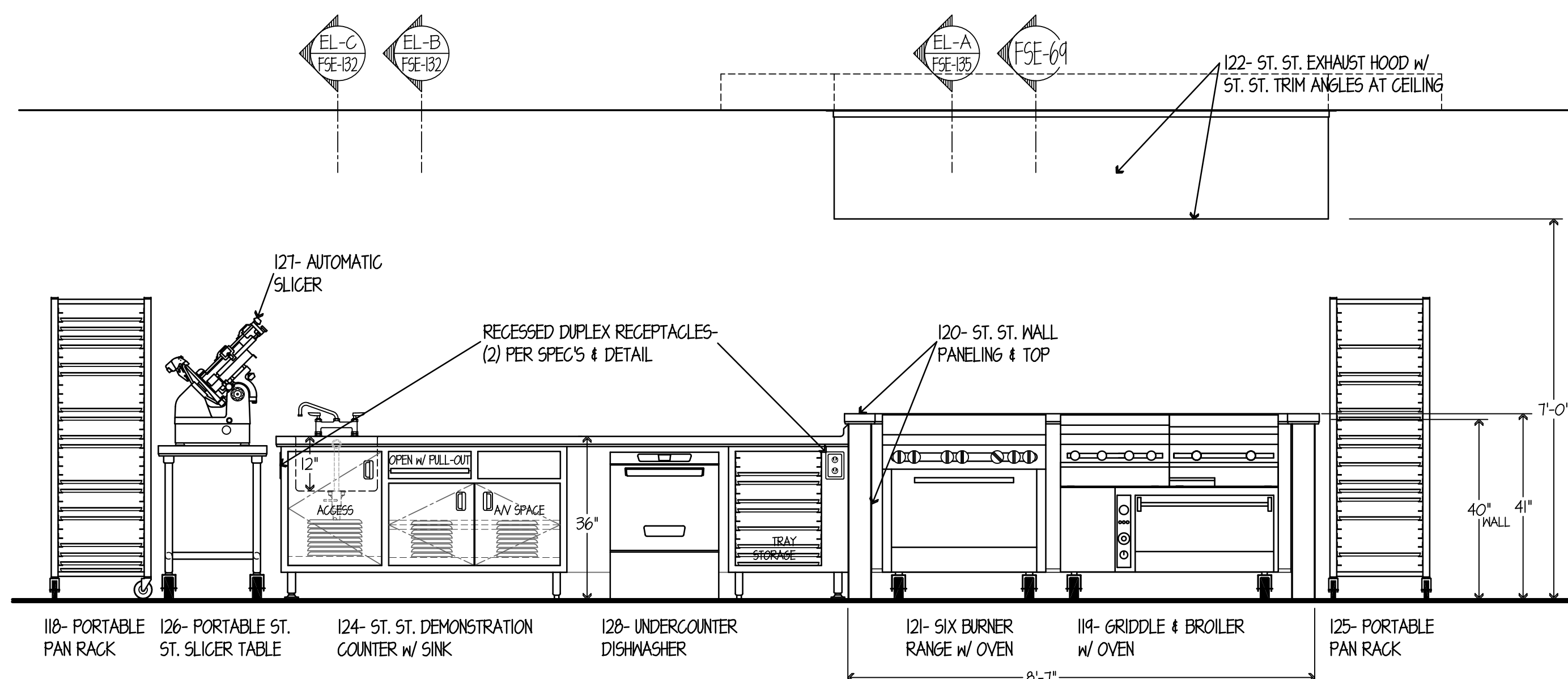
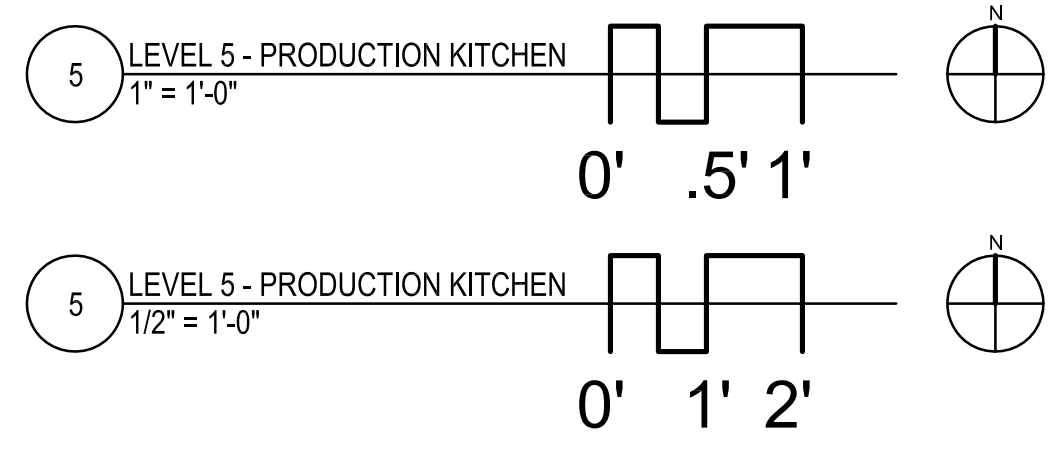
DRAWN	PREPARED	DATE	OFF.
GYB	XXX		
TRACED	APPROVED		
XXX	XXX		
CHECKED	APPROVED		
XXX	EFW		

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

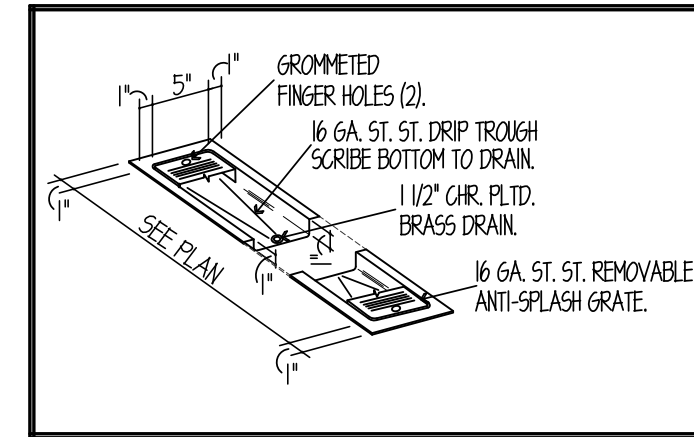
ISSUED FOR CONSTRUCTION FOOD SERVICE EQUIPMENT - ELEVATION DETAILS		PROJECT NO. CDB 810-048-023
CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE		DATE DEC. 12, 2014
FSE-133 OF SHEETS		SHEET NO.



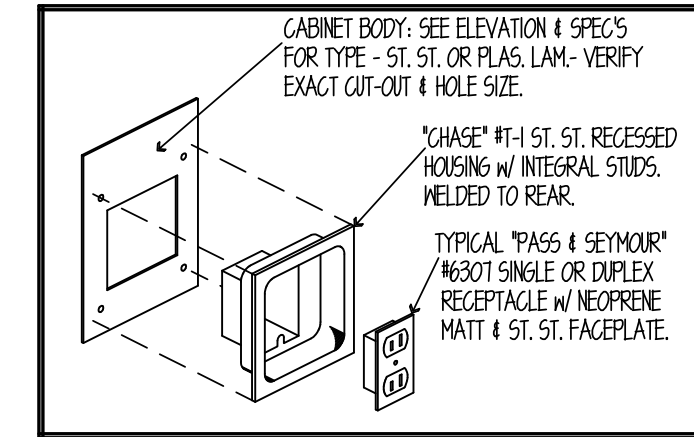
ELEVATION NO. 9  
SCALE 1/2"=1'-0"

NO SCALE

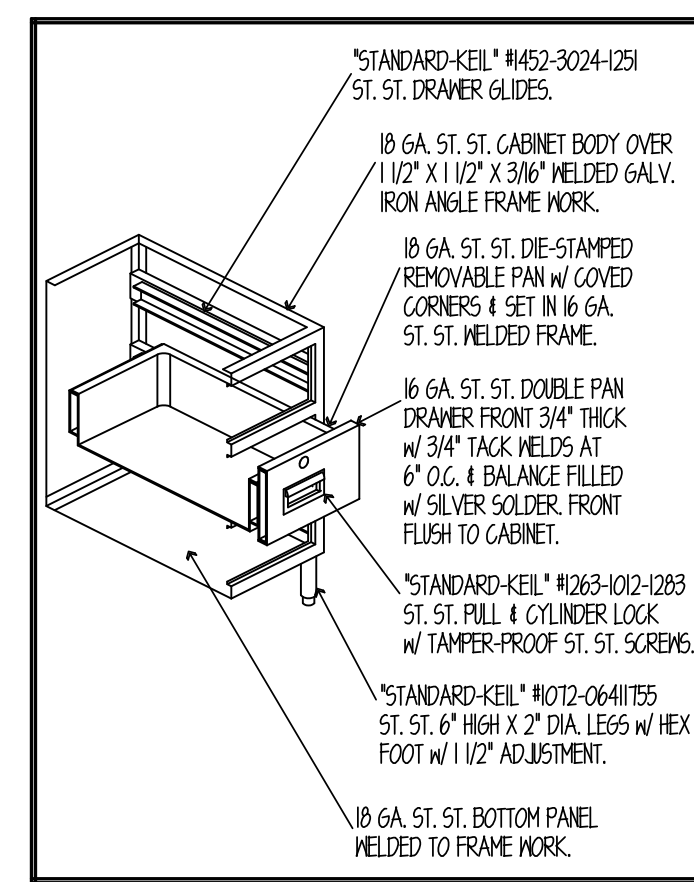
NO SCALE



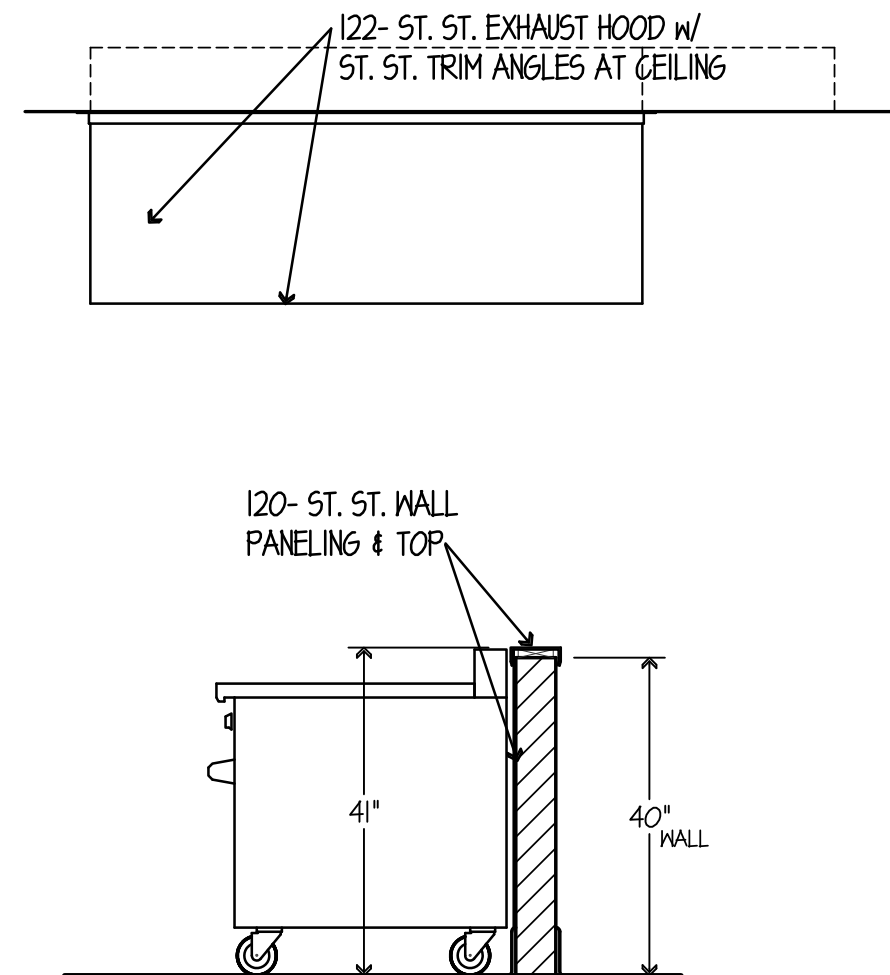
TROUGH DRAIN DETAIL  
NO SCALE



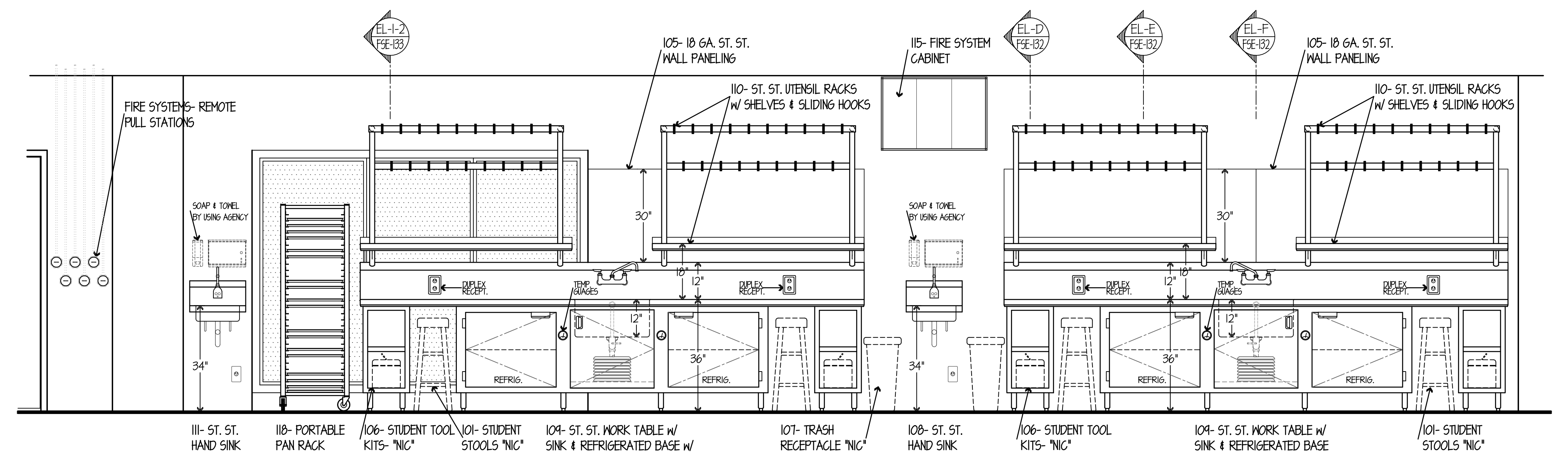
RECESSED RECEPTACLE DETAIL  
NO SCALE



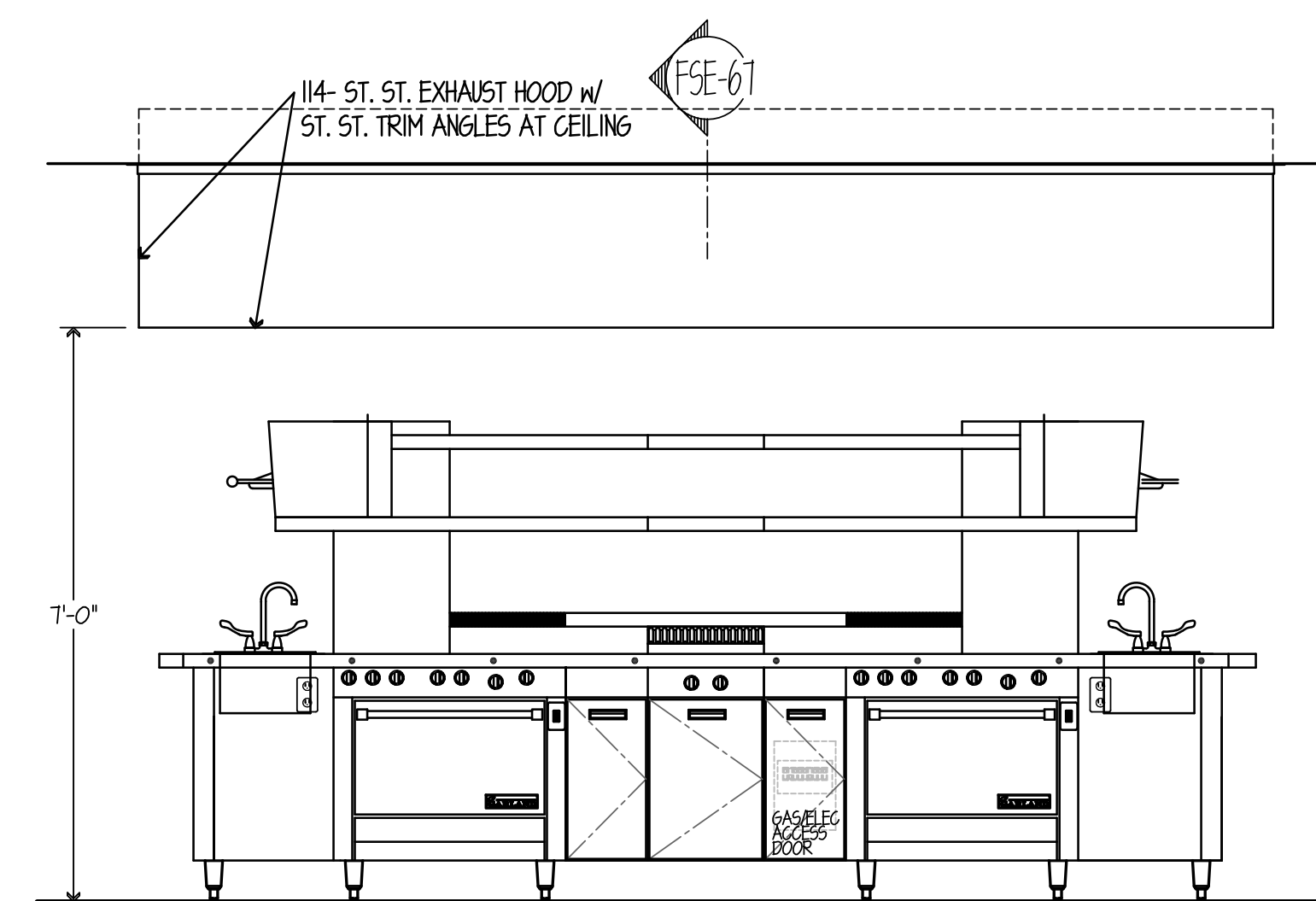
TIER OF THREE DRAWERS DETAIL  
NO SCALE



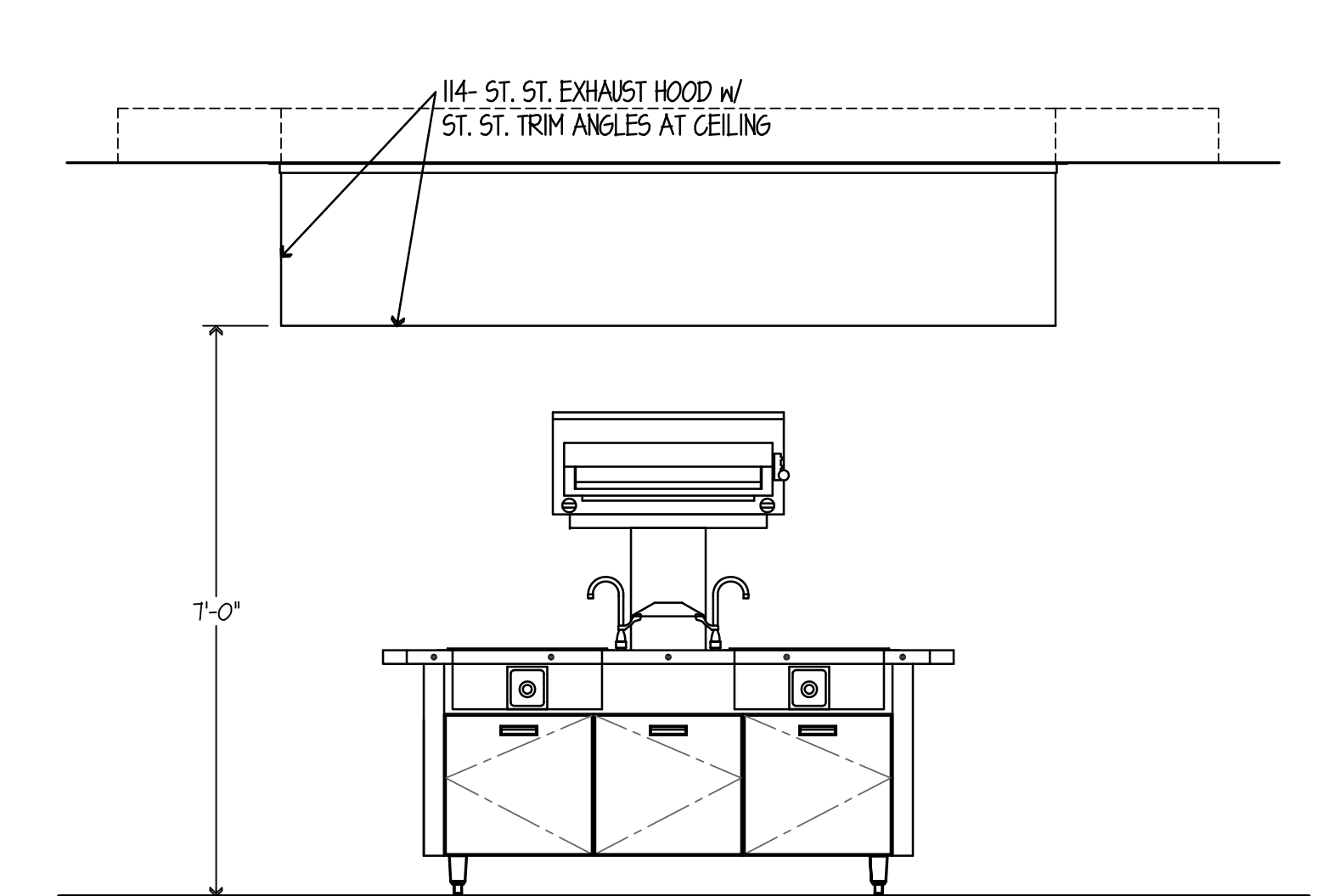
SECTION "EL-A"  
SCALE 1/2"=1'-0"



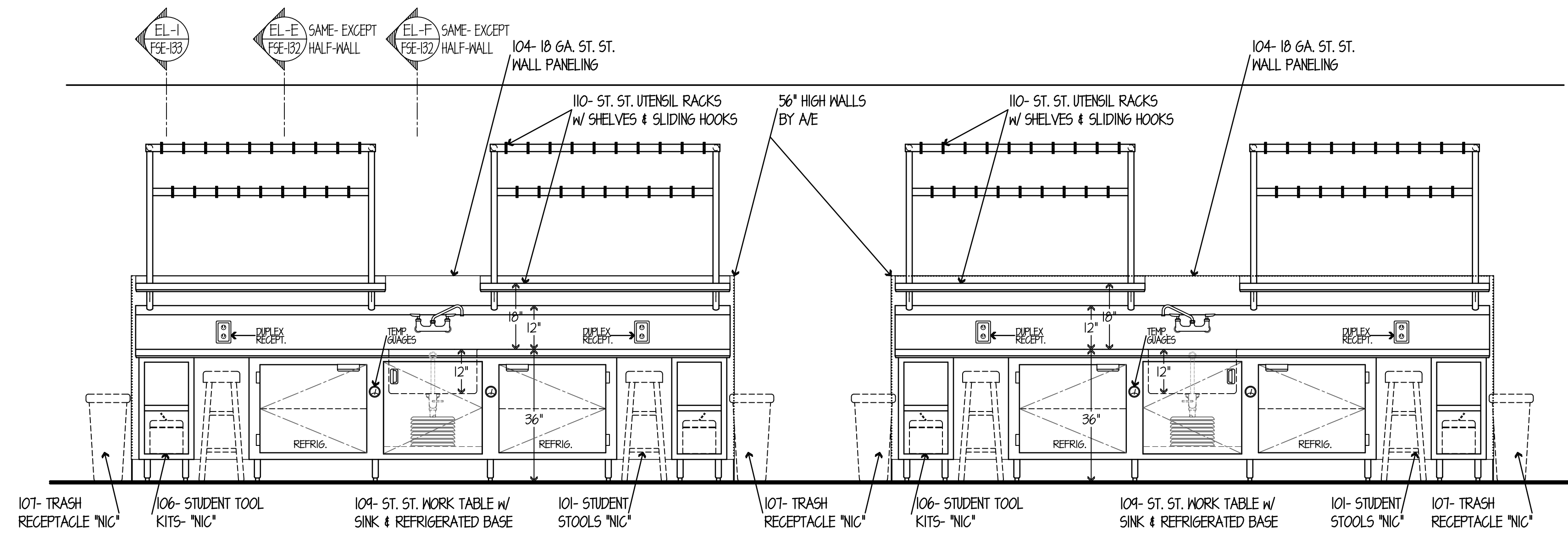
ELEVATION NO. 10  
SCALE 1/2"=1'-0"



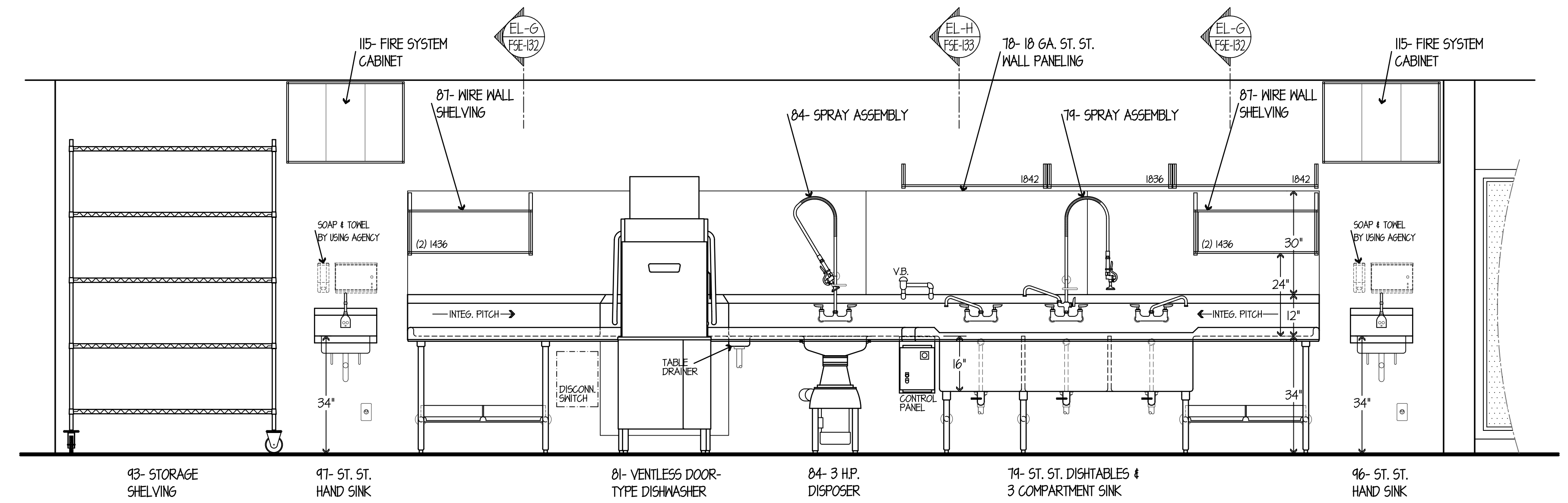
ELEVATION NO. 11  
SCALE 1/2"=1'-0"



ELEVATION NO. 12  
SCALE 1/2"=1'-0"



ELEVATION NO. 13  
SCALE 1/2"=1'-0"



ELEVATION NO. 14  
SCALE 1/2"=1'-0"

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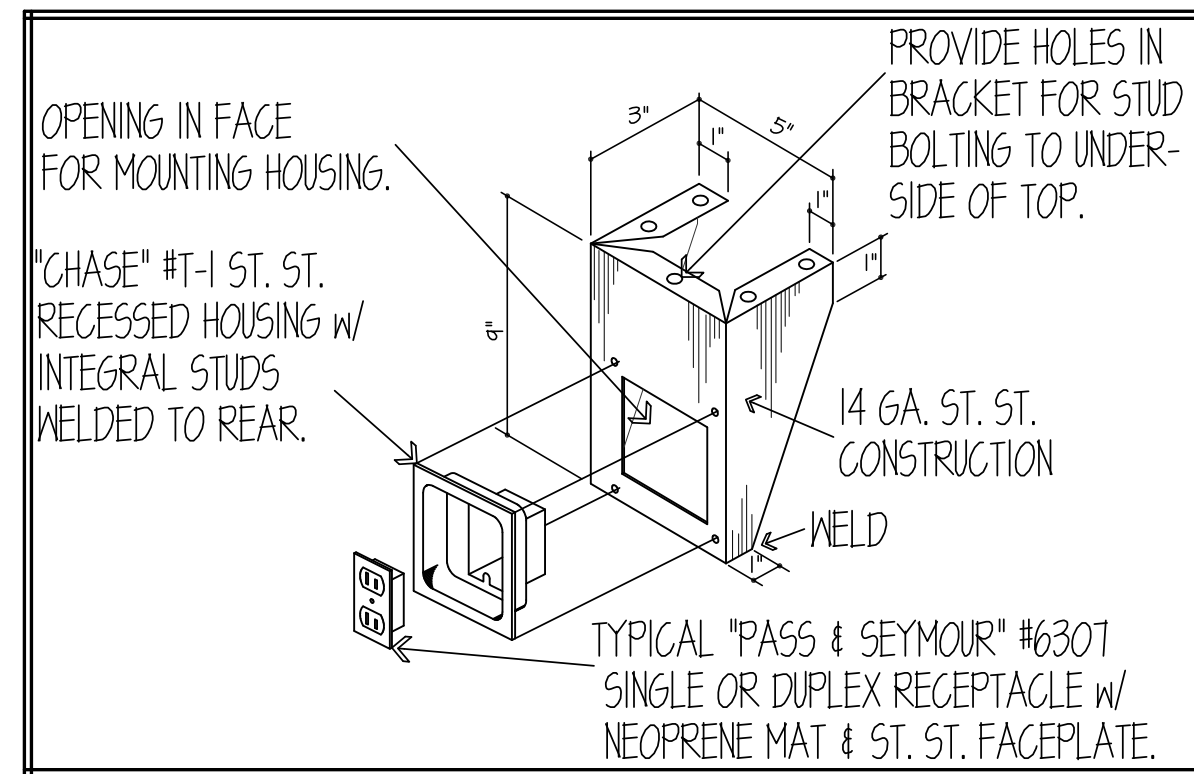
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GYB	XXX	XXX	XXX
TRACED	APPROVED	APPROVED	APPROVED
XXX	XXX	XXX	XXX
CHECKED	APPROVED	APPROVED	APPROVED
XXX	EFW	EFW	EFW

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
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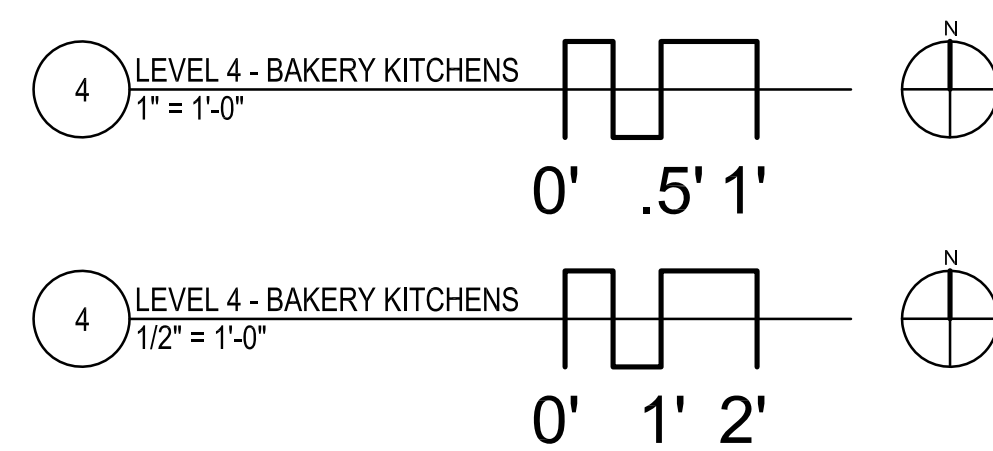
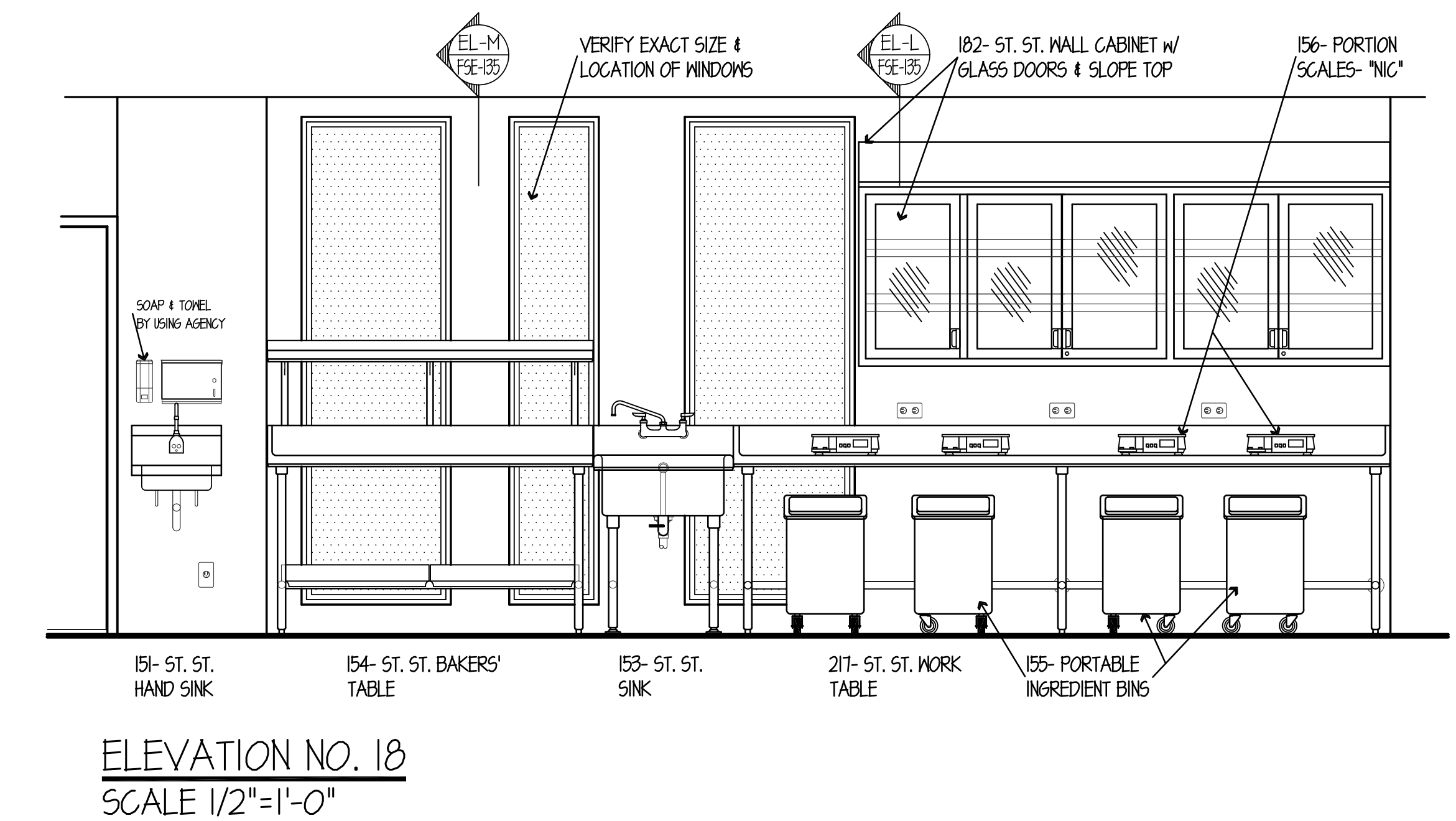
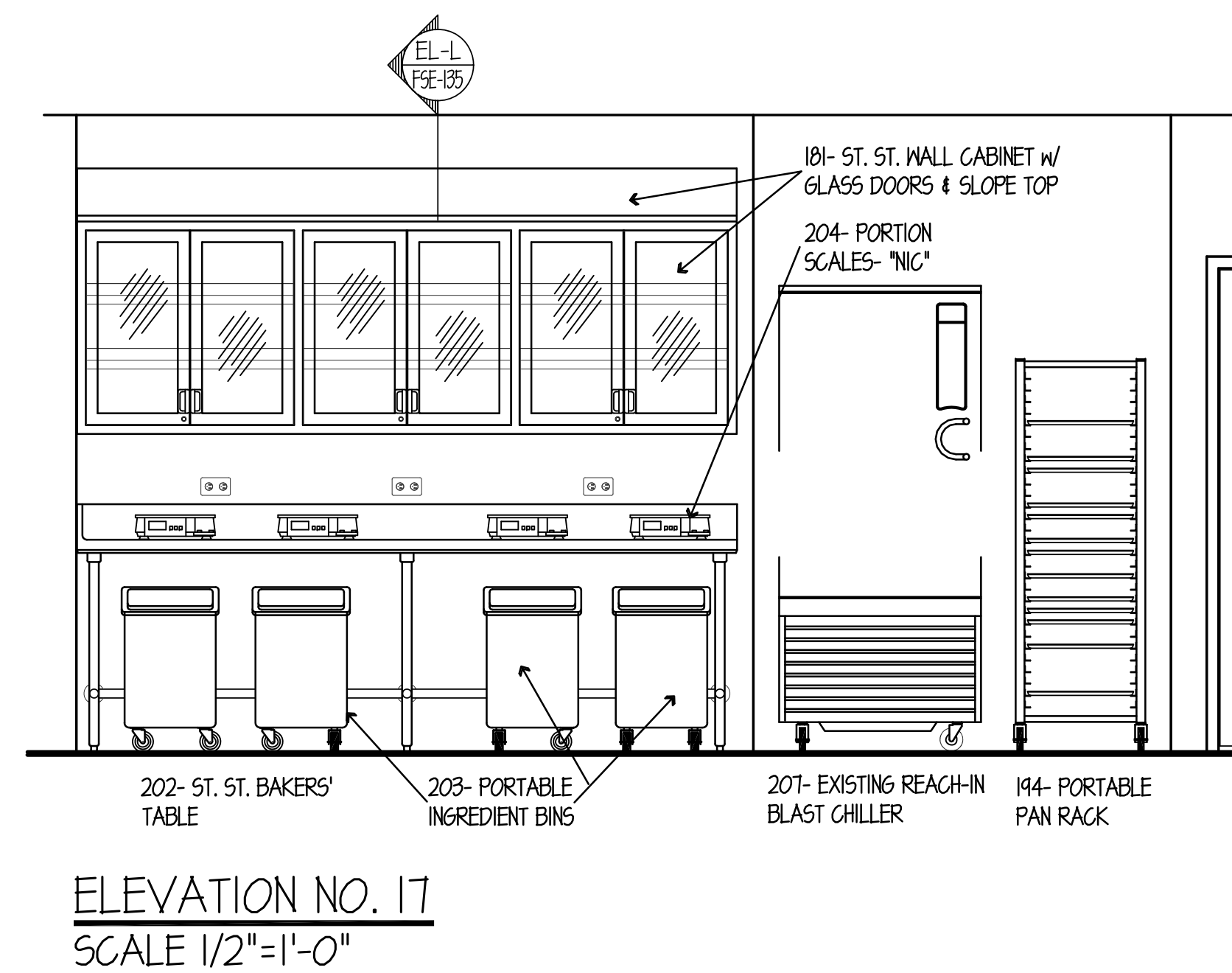
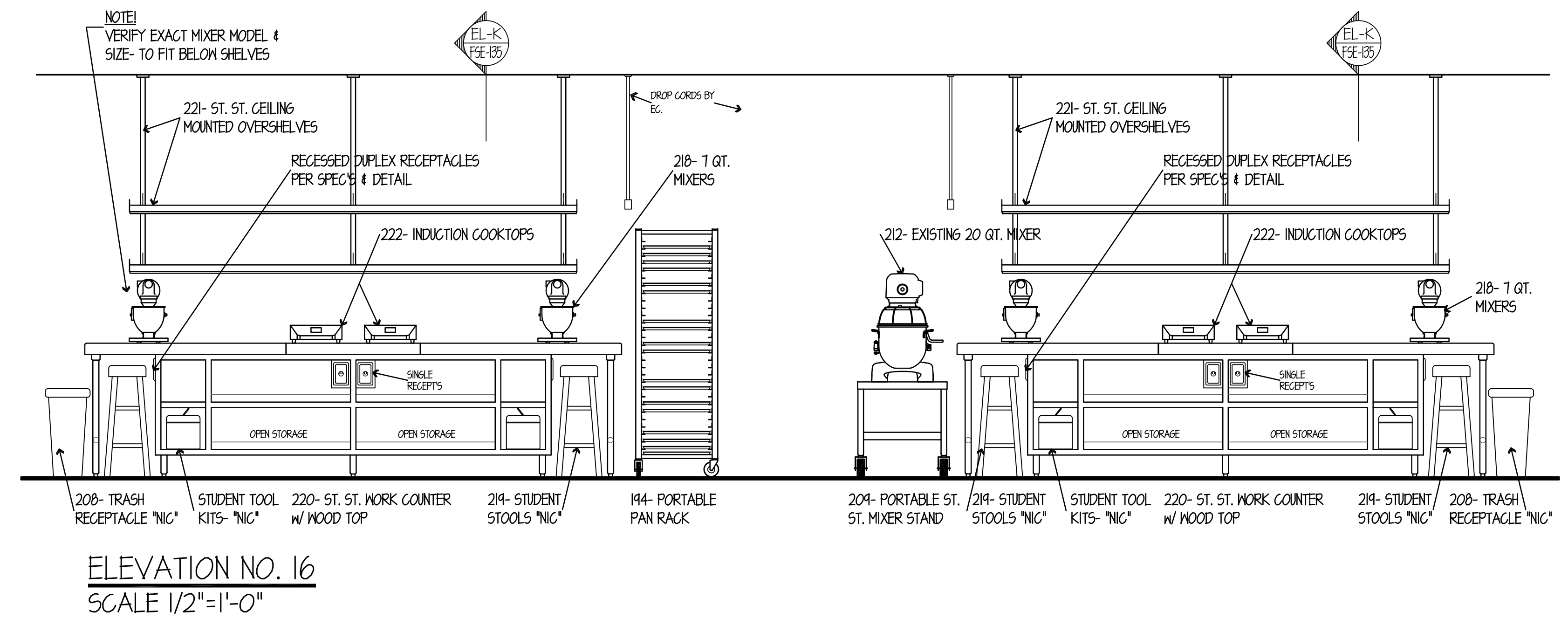
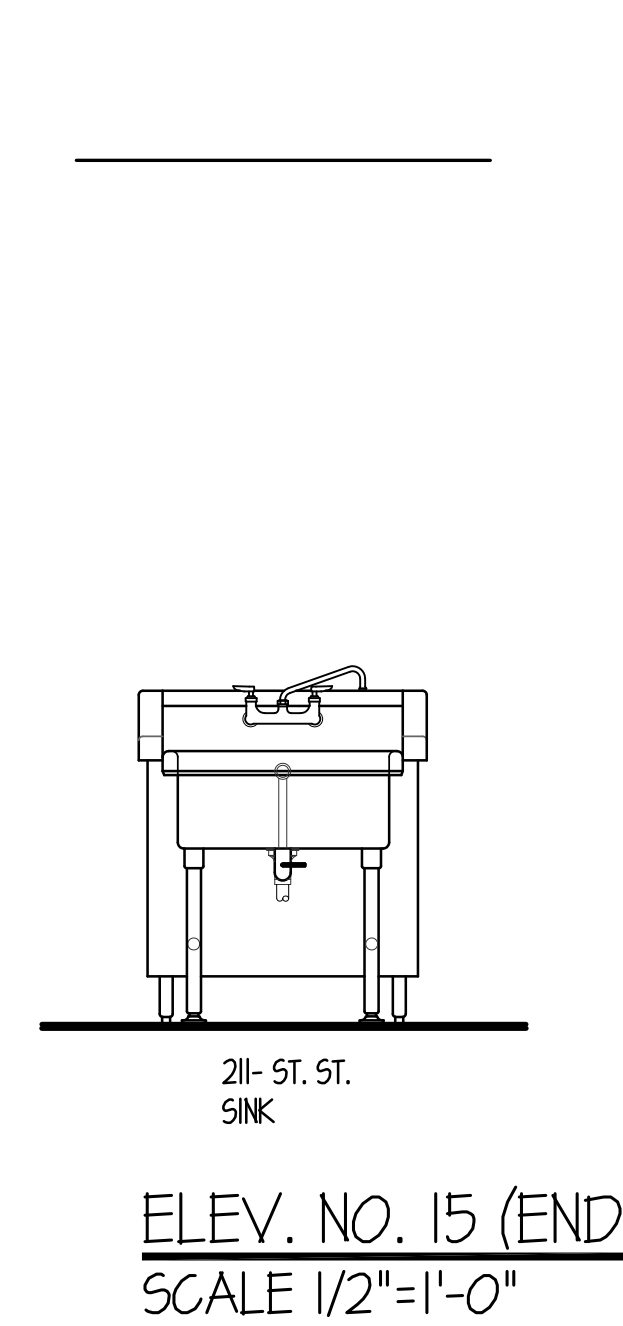
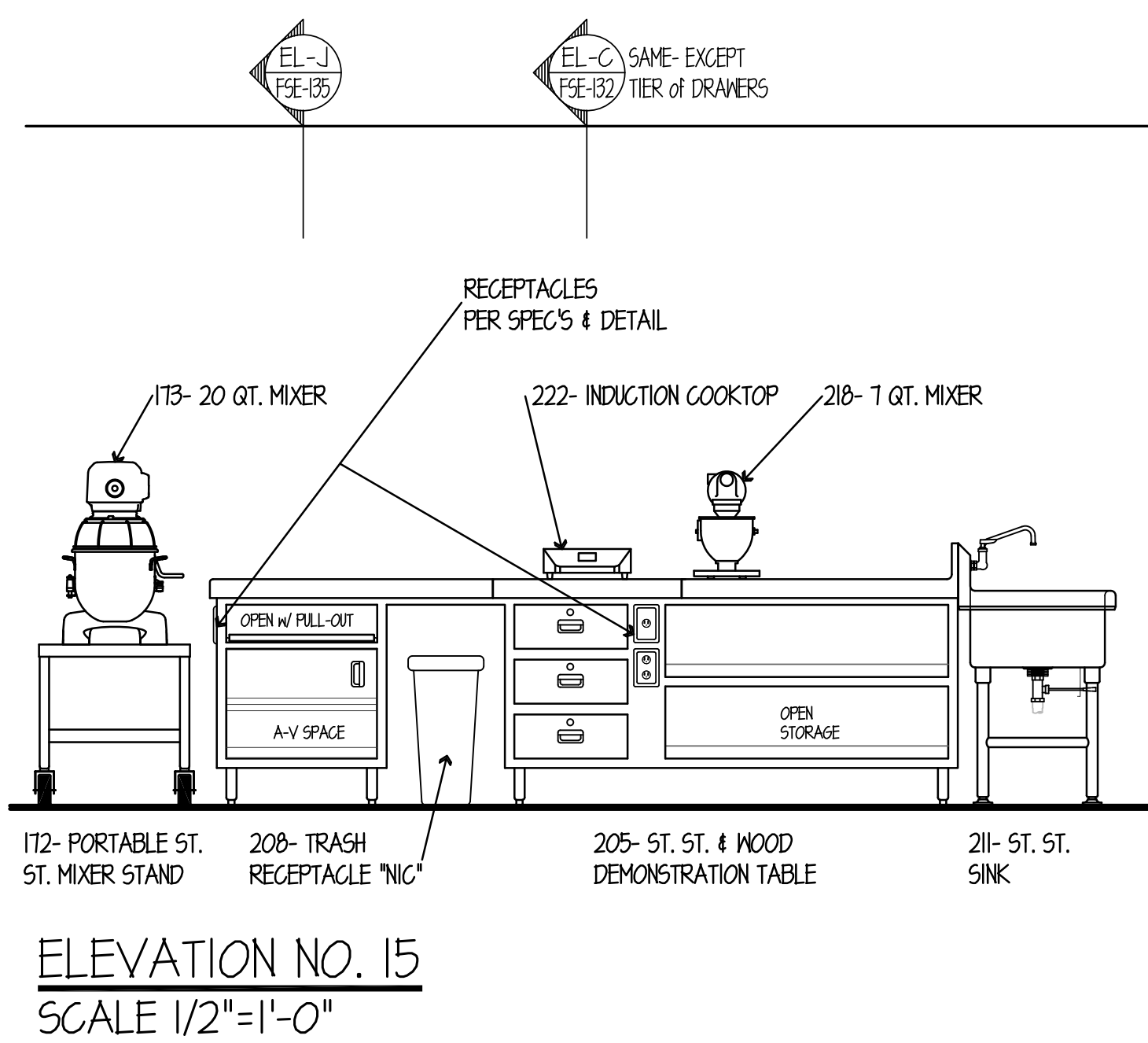
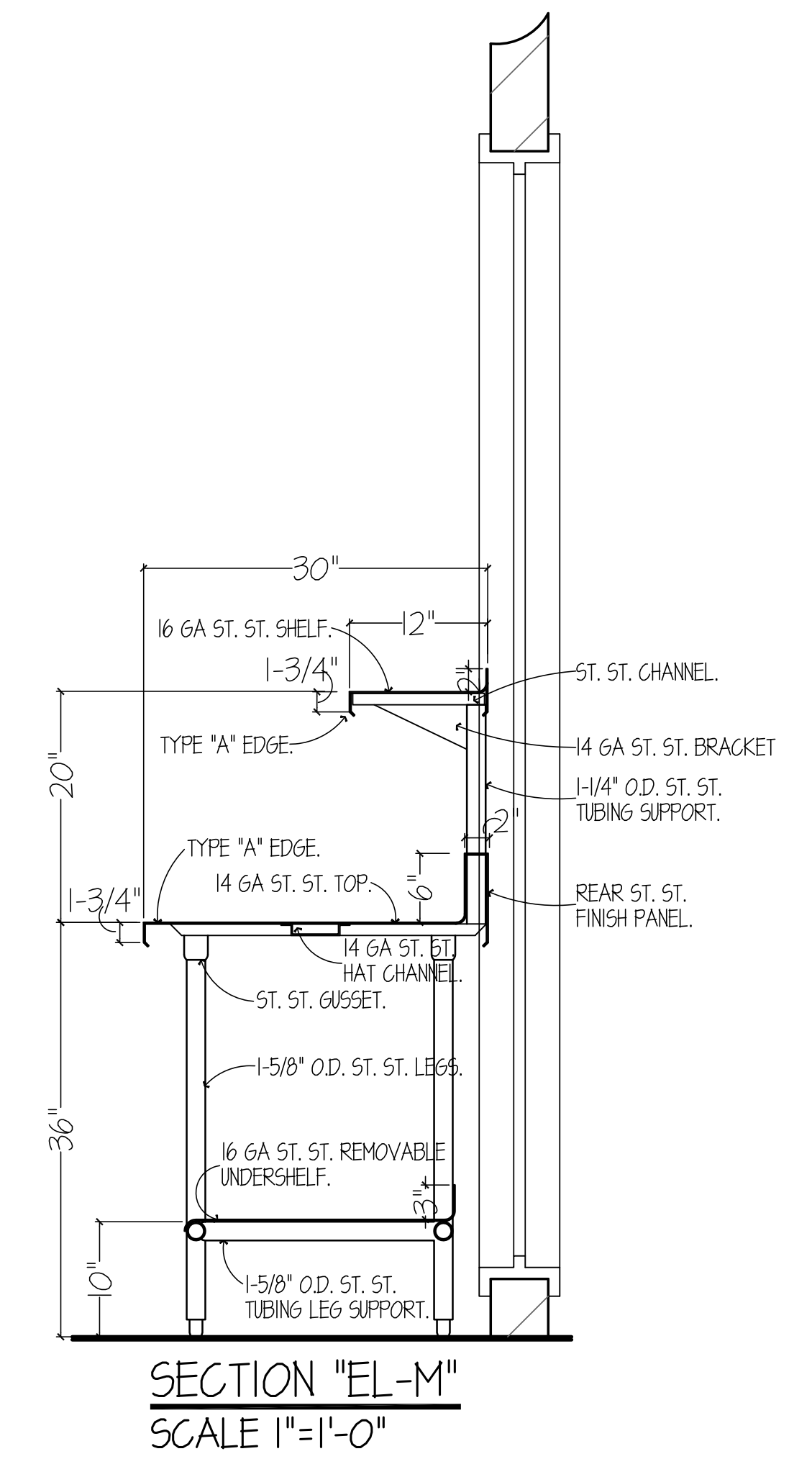
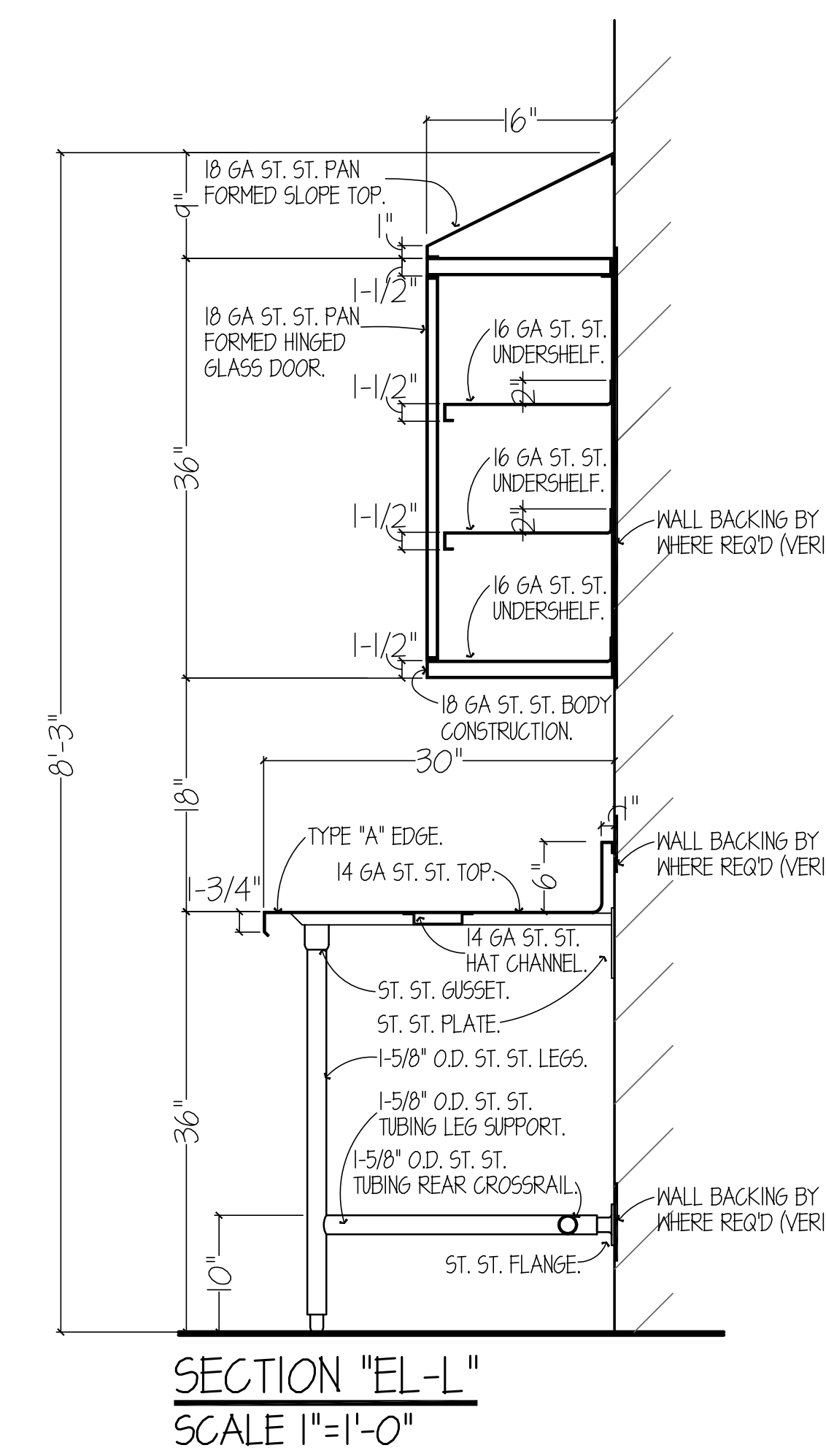
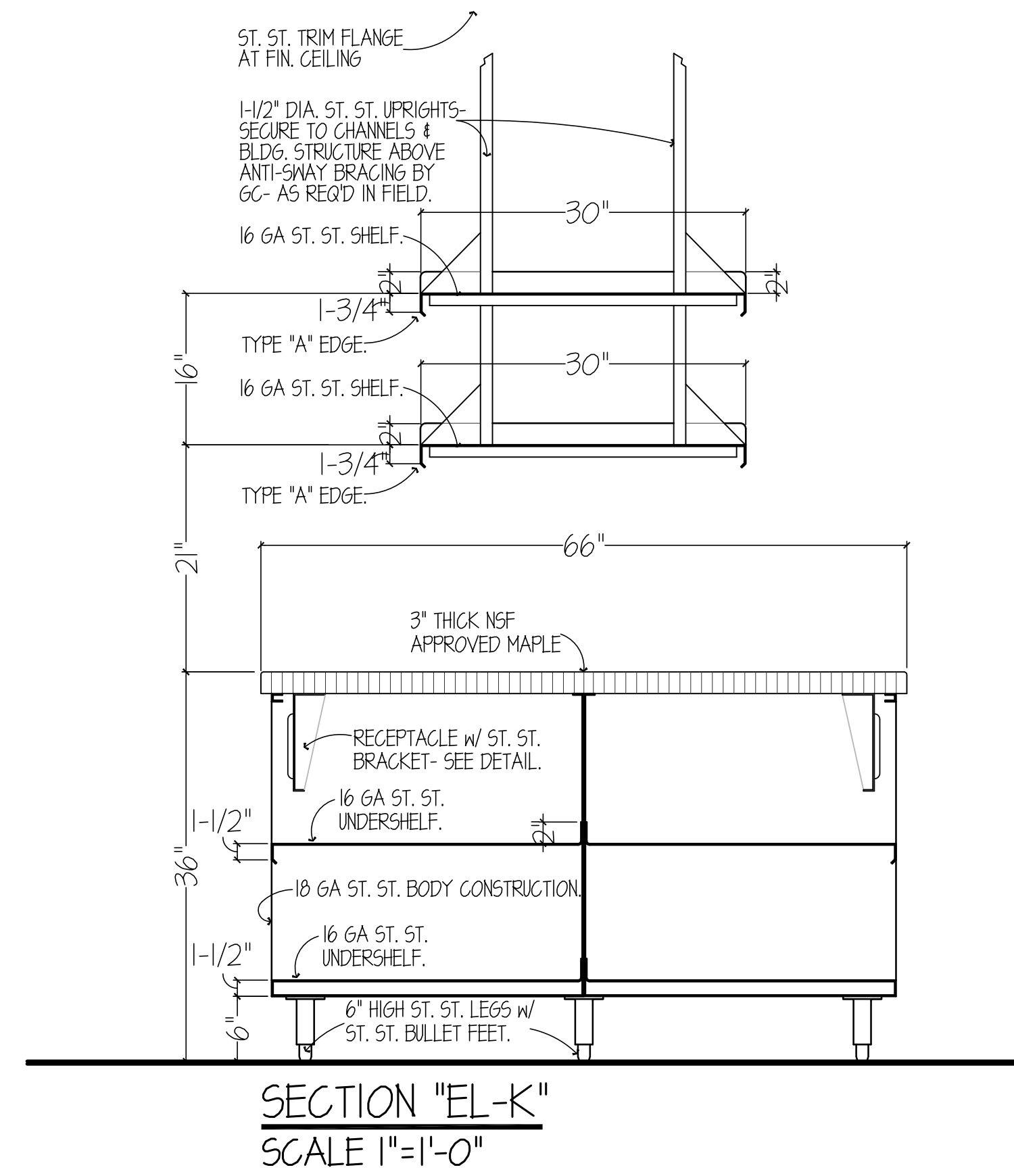
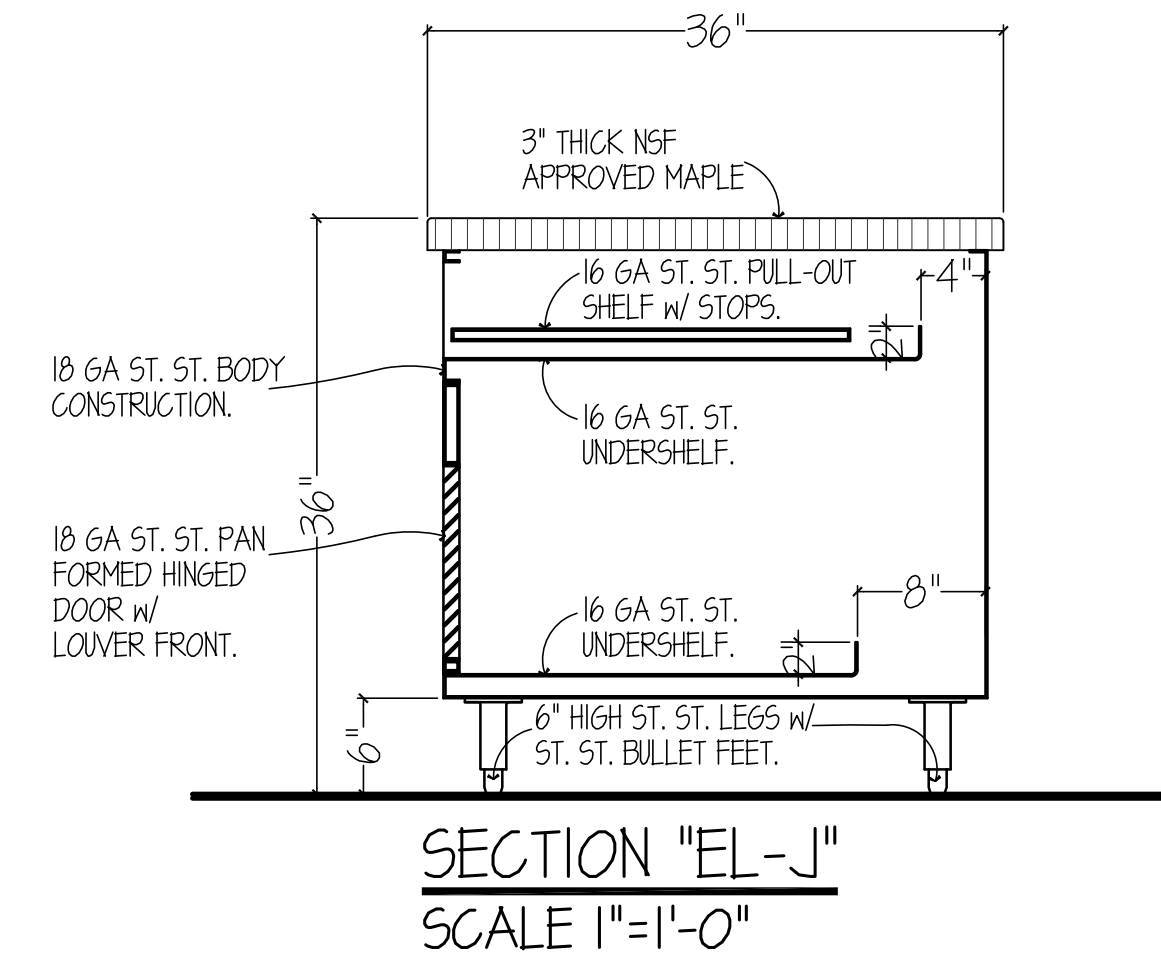
**KJWW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELEVATION DETAILS</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-134</b>
		OF SHEETS



**RECEPTACLE  
BRACKET DETAIL**  
NO SCALE



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DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
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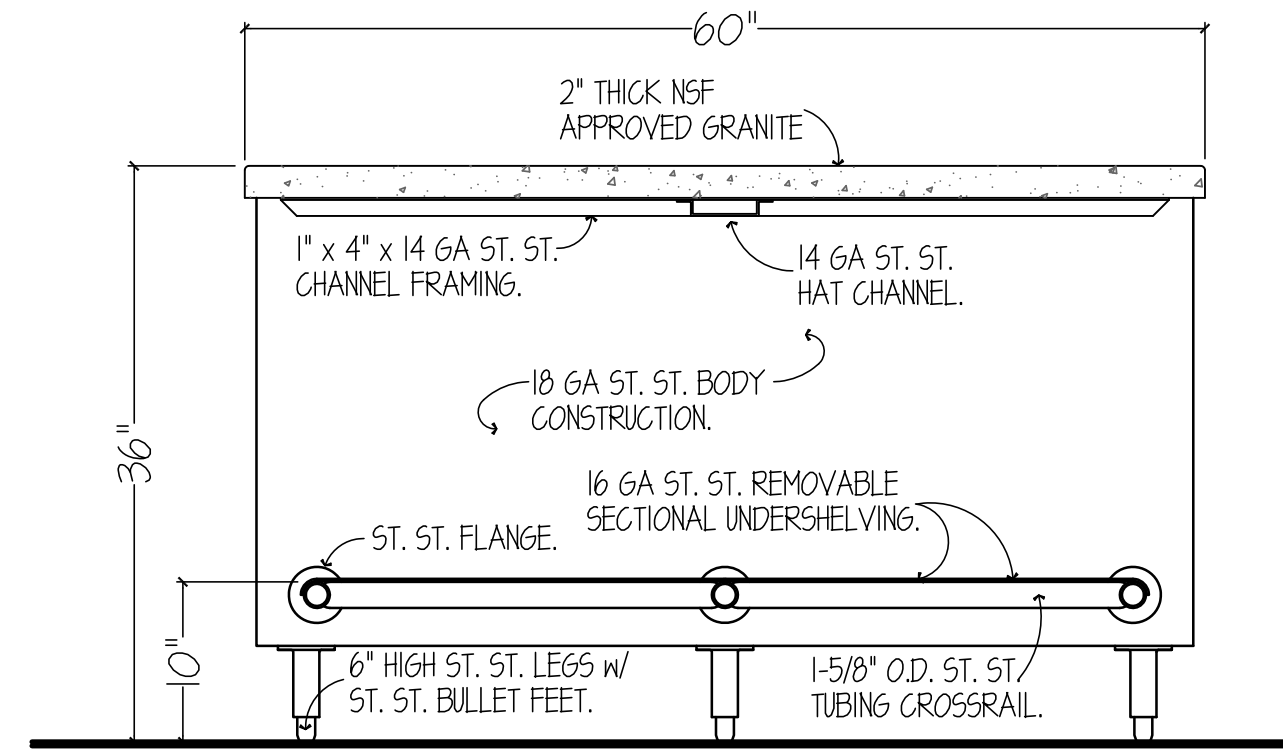
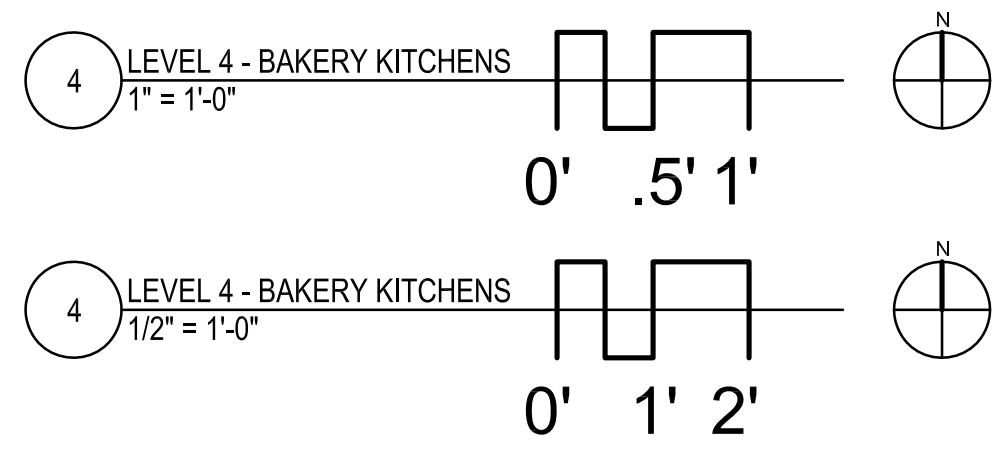
**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
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**ISSUED FOR CONSTRUCTION**  
**FOOD SERVICE EQUIPMENT - ELEVATION DETAILS**

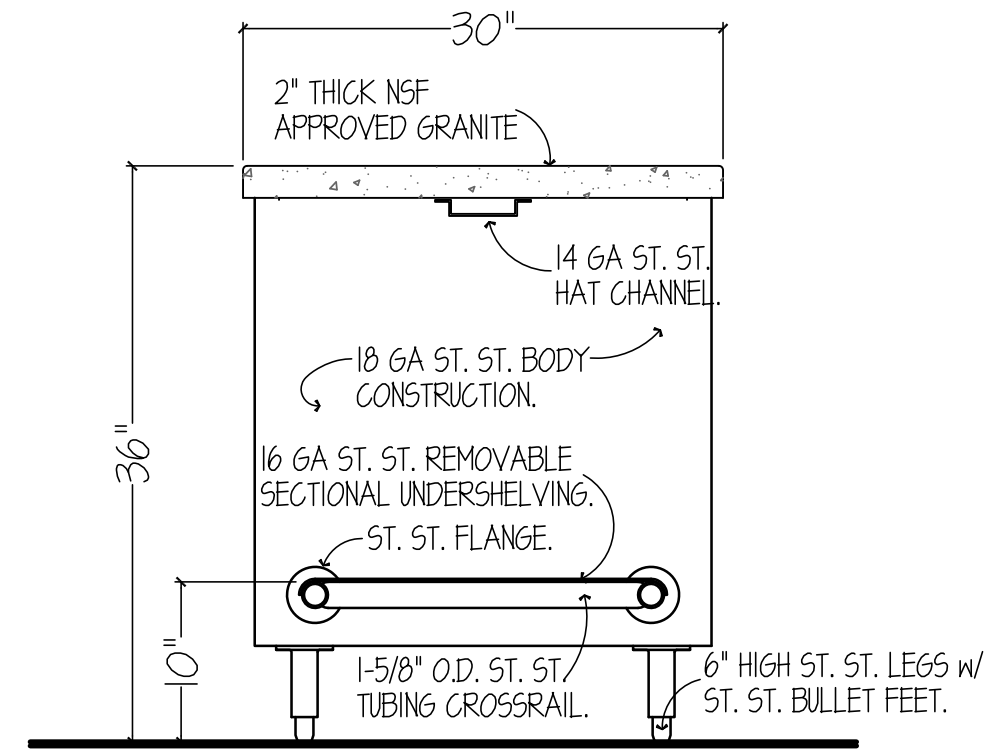
**CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE**

PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. **FSE-135**  
OF SHEETS

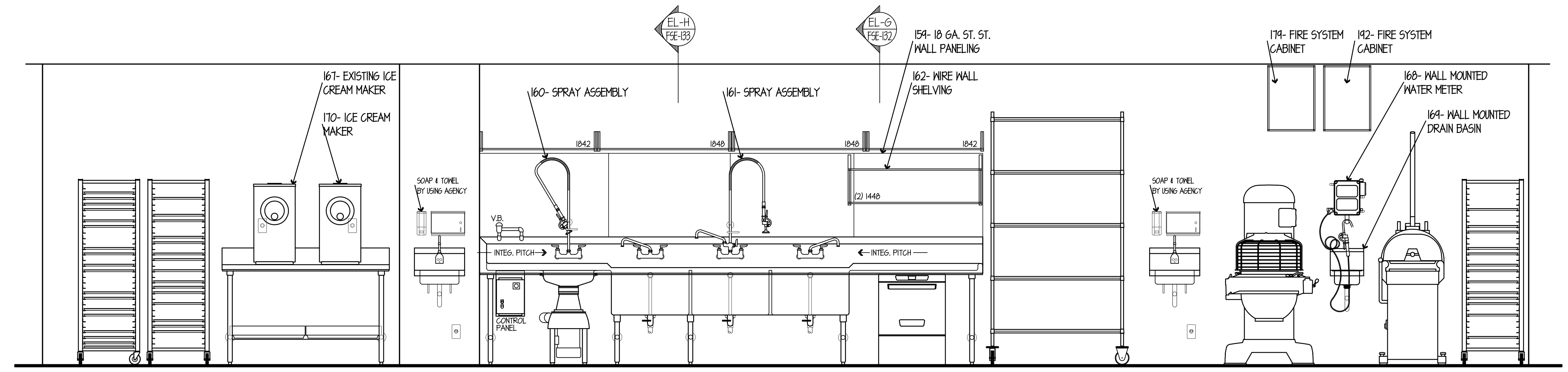




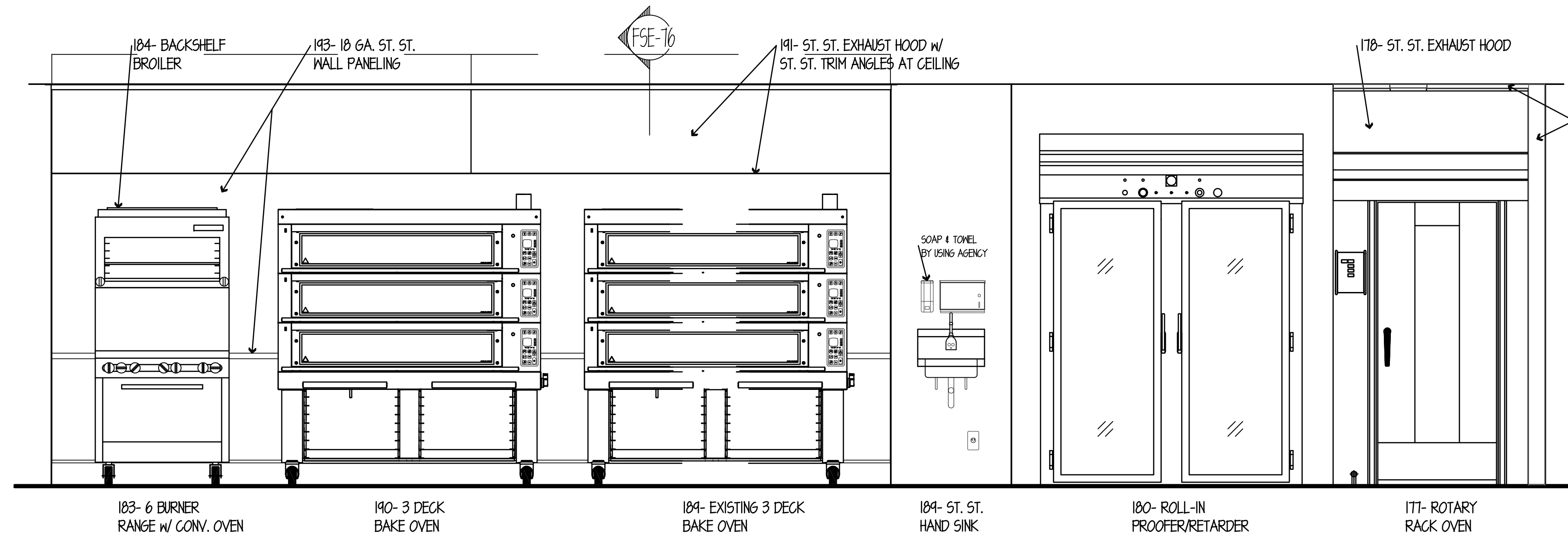
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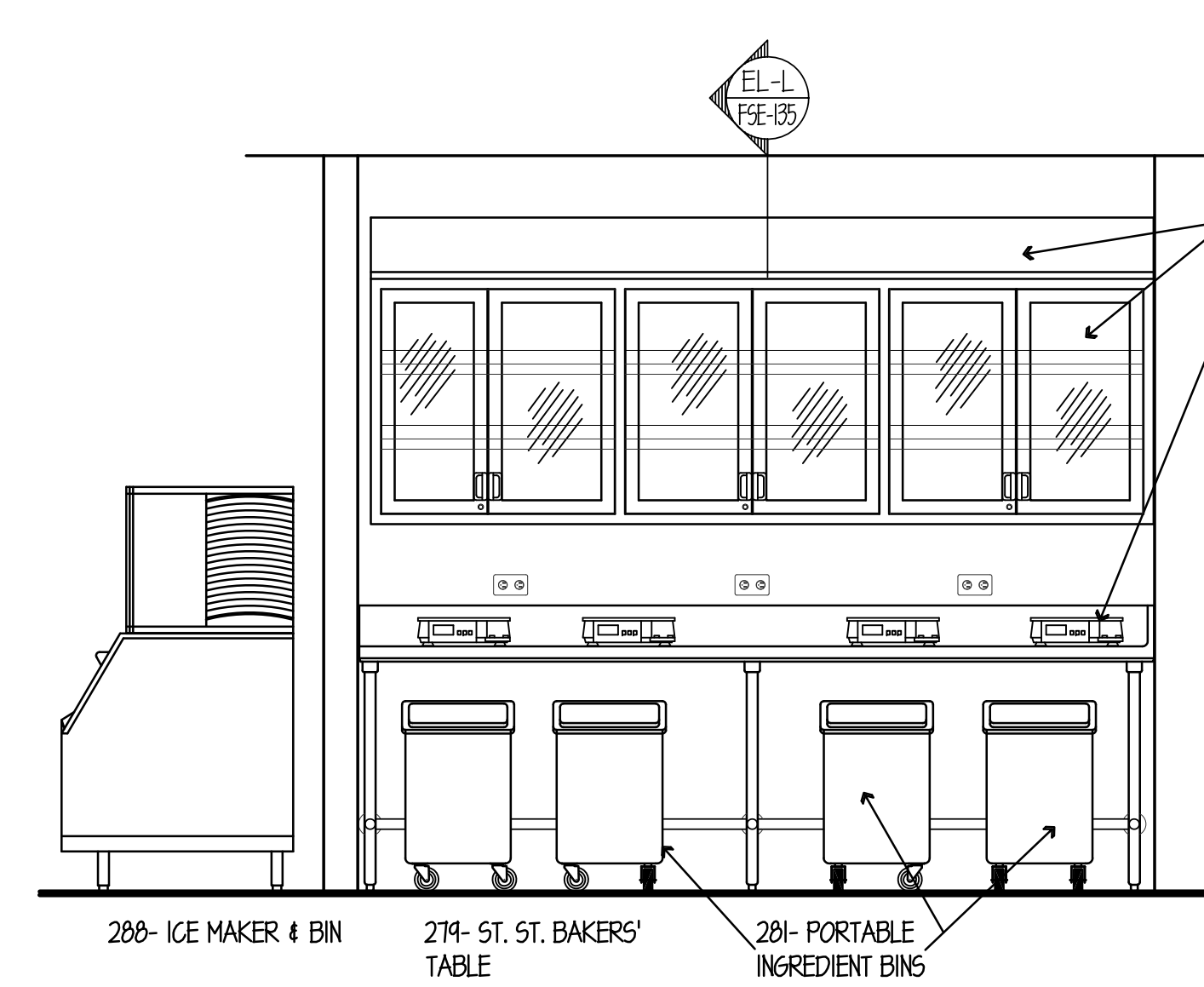
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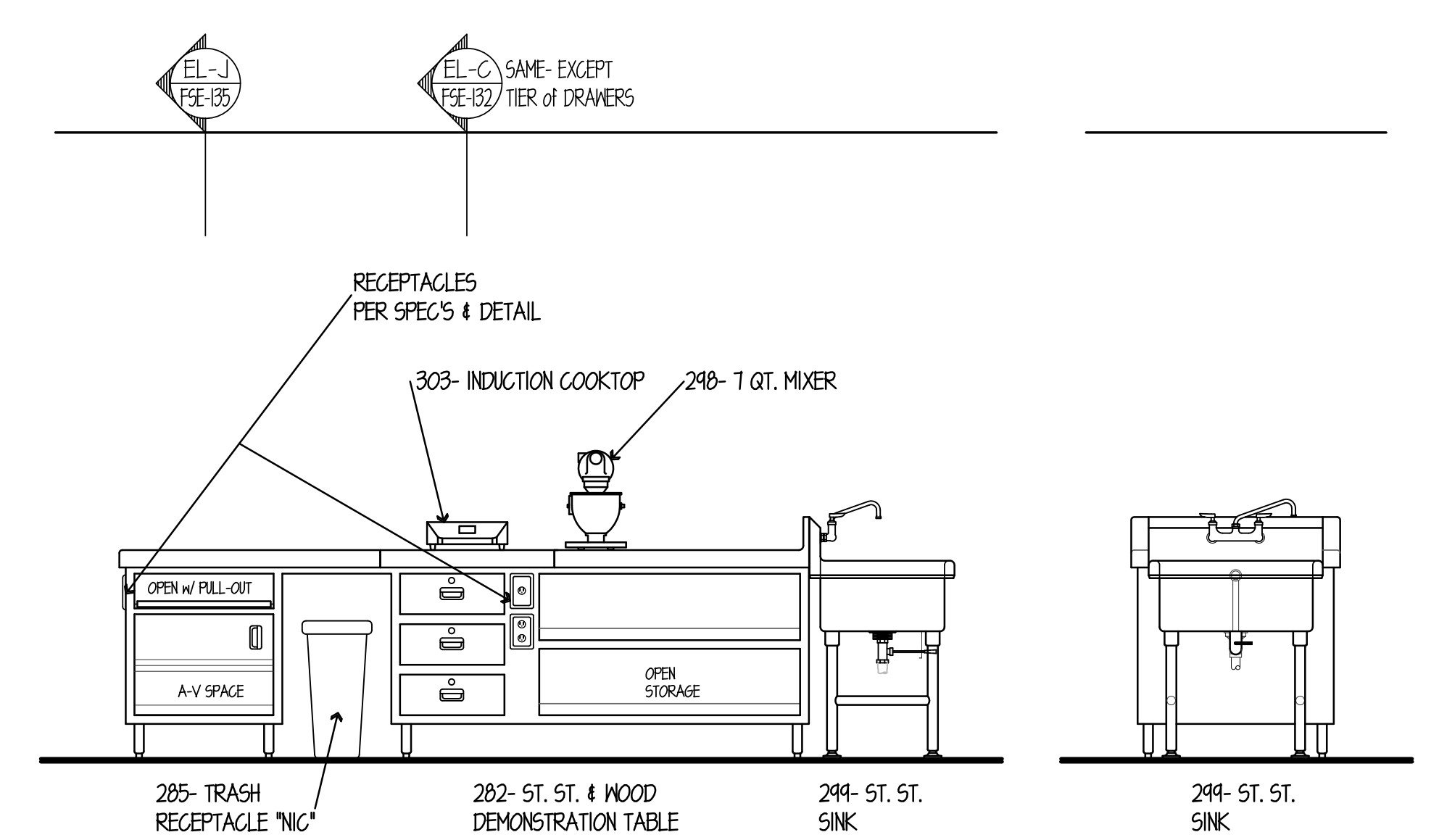
ELEVATION NO. 19  
SCALE 1/2"=1'-0"



ELEVATION NO. 20  
SCALE 1/2"=1'-0"

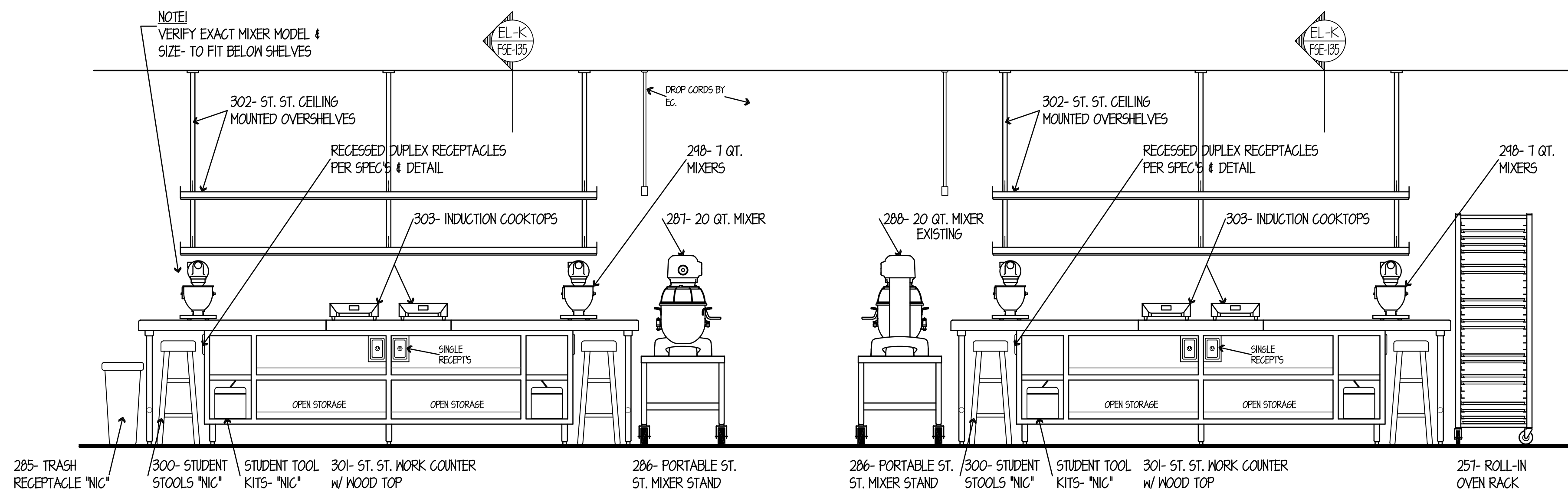


ELEVATION NO. 21  
SCALE 1/2"=1'-0"

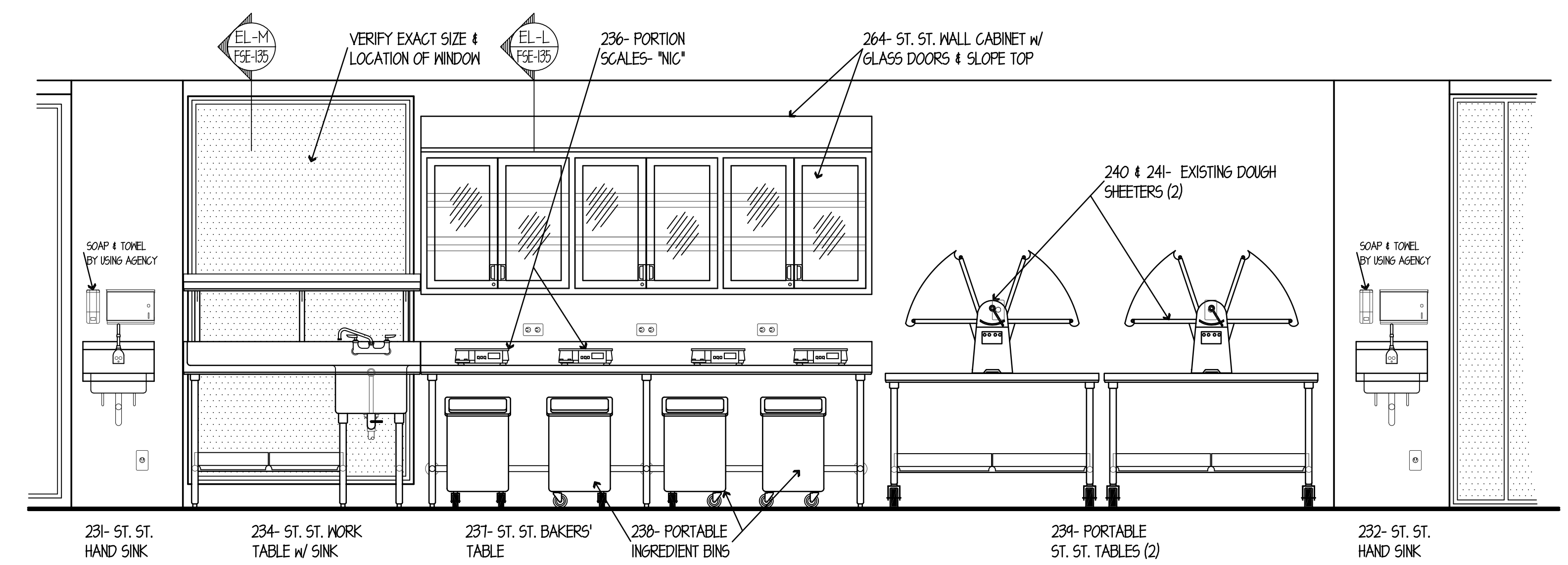


ELEVATION NO. 22  
SCALE 1/2"=1'-0"

ELEV. NO. 22 (END)  
SCALE 1/2"=1'-0"



ELEVATION NO. 23  
SCALE 1/2"=1'-0"



ELEVATION NO. 24  
SCALE 1/2"=1'-0"

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		NO.	DESCRIPTION	DATE
		1	Issued for Construction	07/31/15

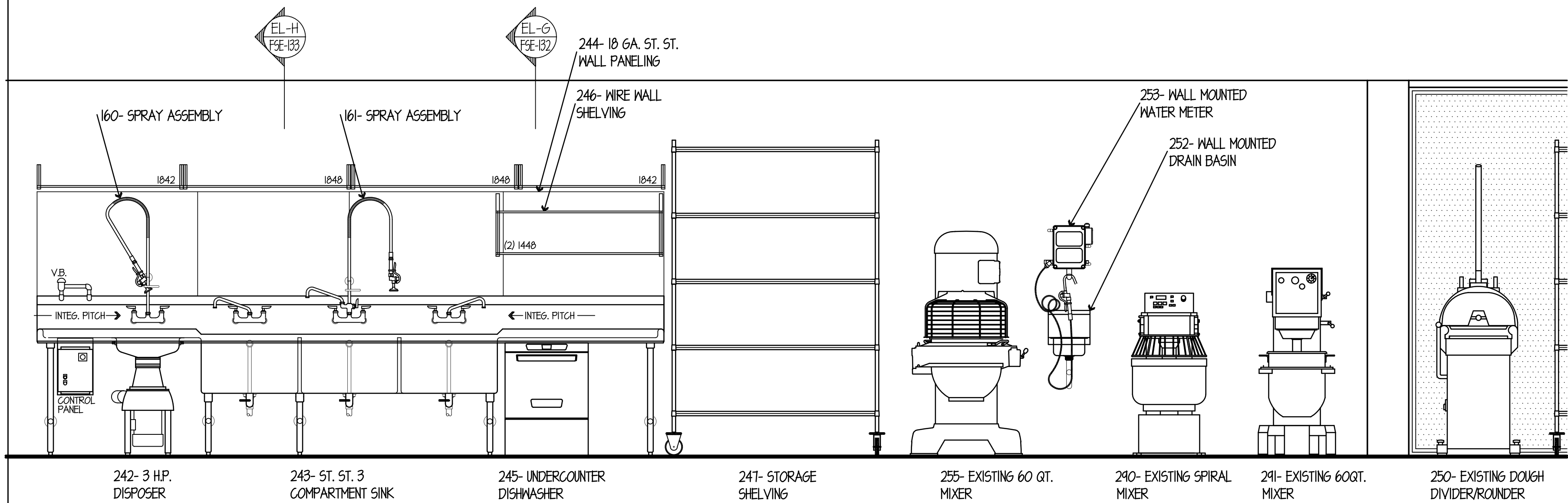
DRAWN	PREPARED	CHECKED	APPROVED
GYB	XXX	XXX	XXX
TRACED	APPROVED	CHECKED	APPROVED
XXX	XXX	XXX	EFW

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

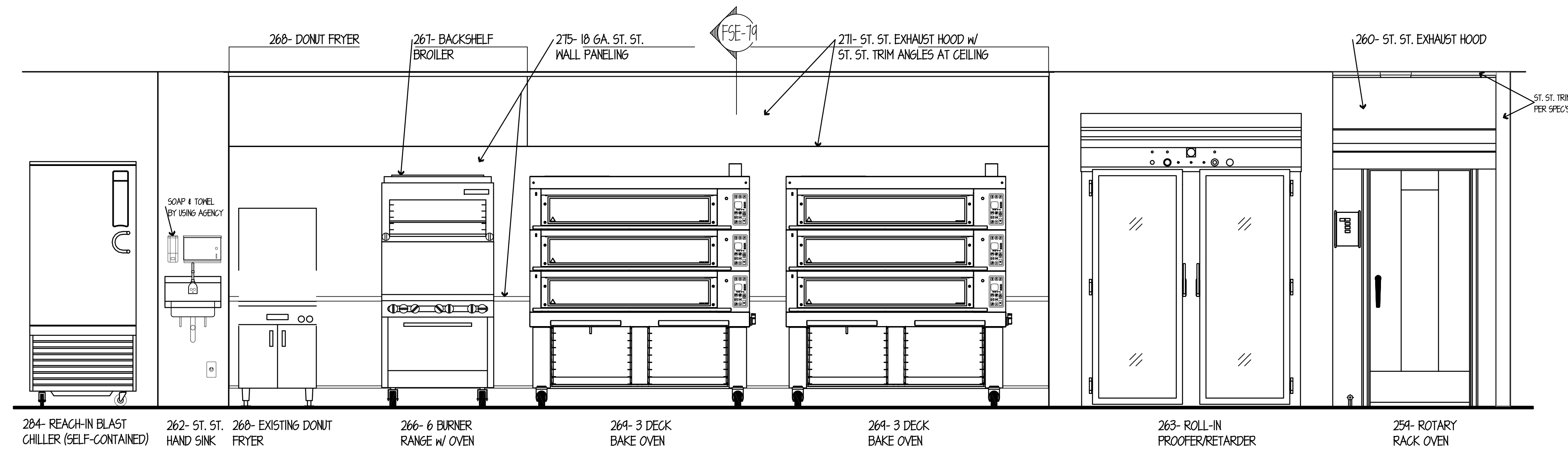
**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

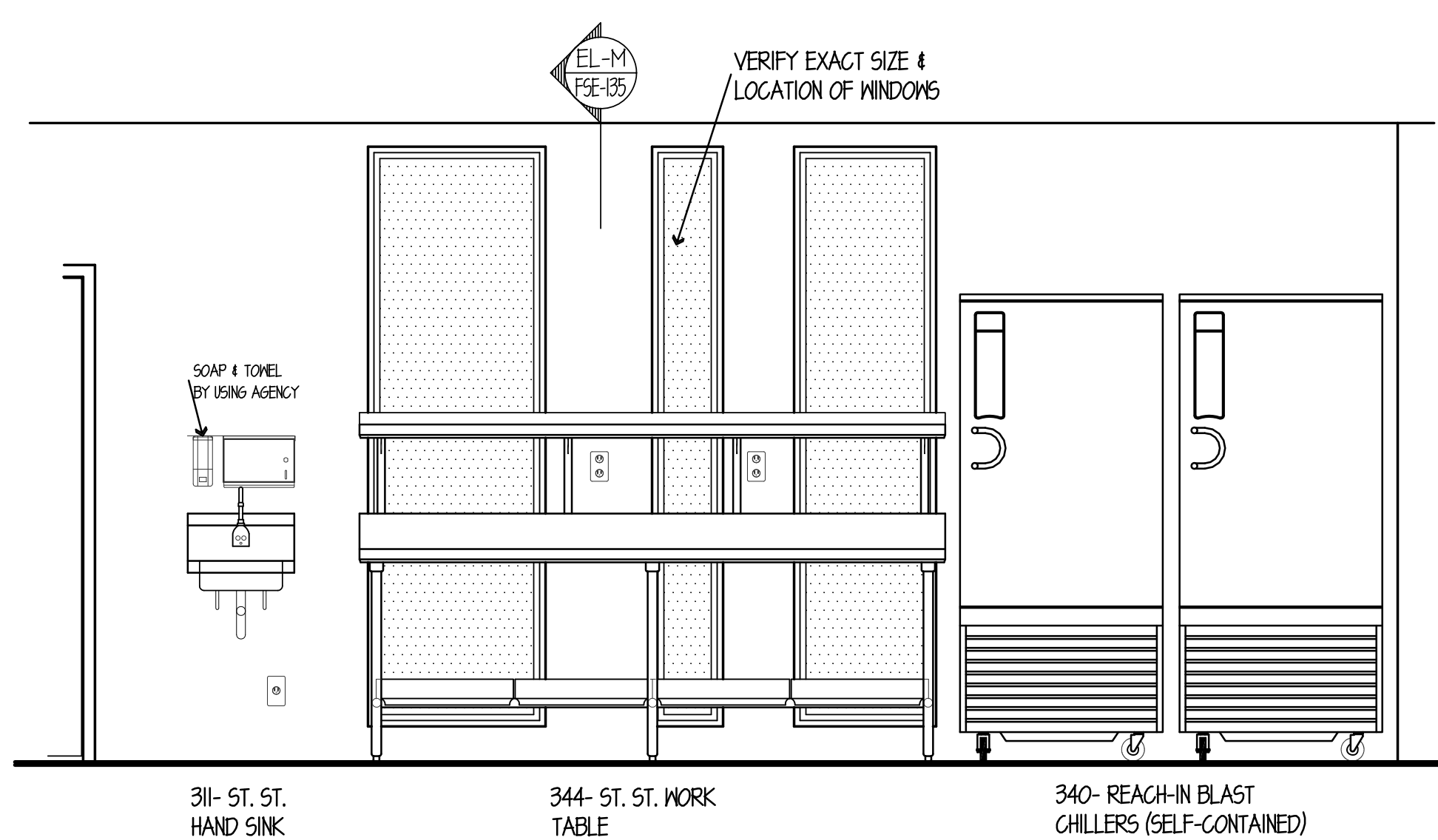
<b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO.
<b>FOOD SERVICE EQUIPMENT - ELEVATION DETAILS</b>		CDB 810-048-023
<b>CITY CENTER CAMPUS</b>		DEC. 12, 2014
<b>JOLIET JUNIOR COLLEGE</b>		SHEET NO.
<b>FSE-136</b>		OF SHEETS



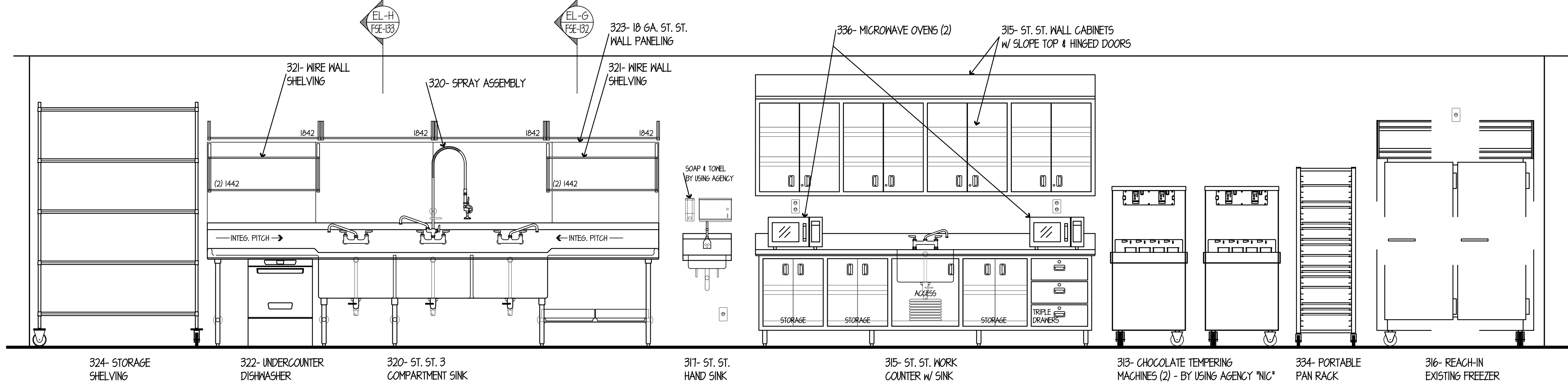
ELEVATION NO. 25  
SCALE 1/2"=1'-0"



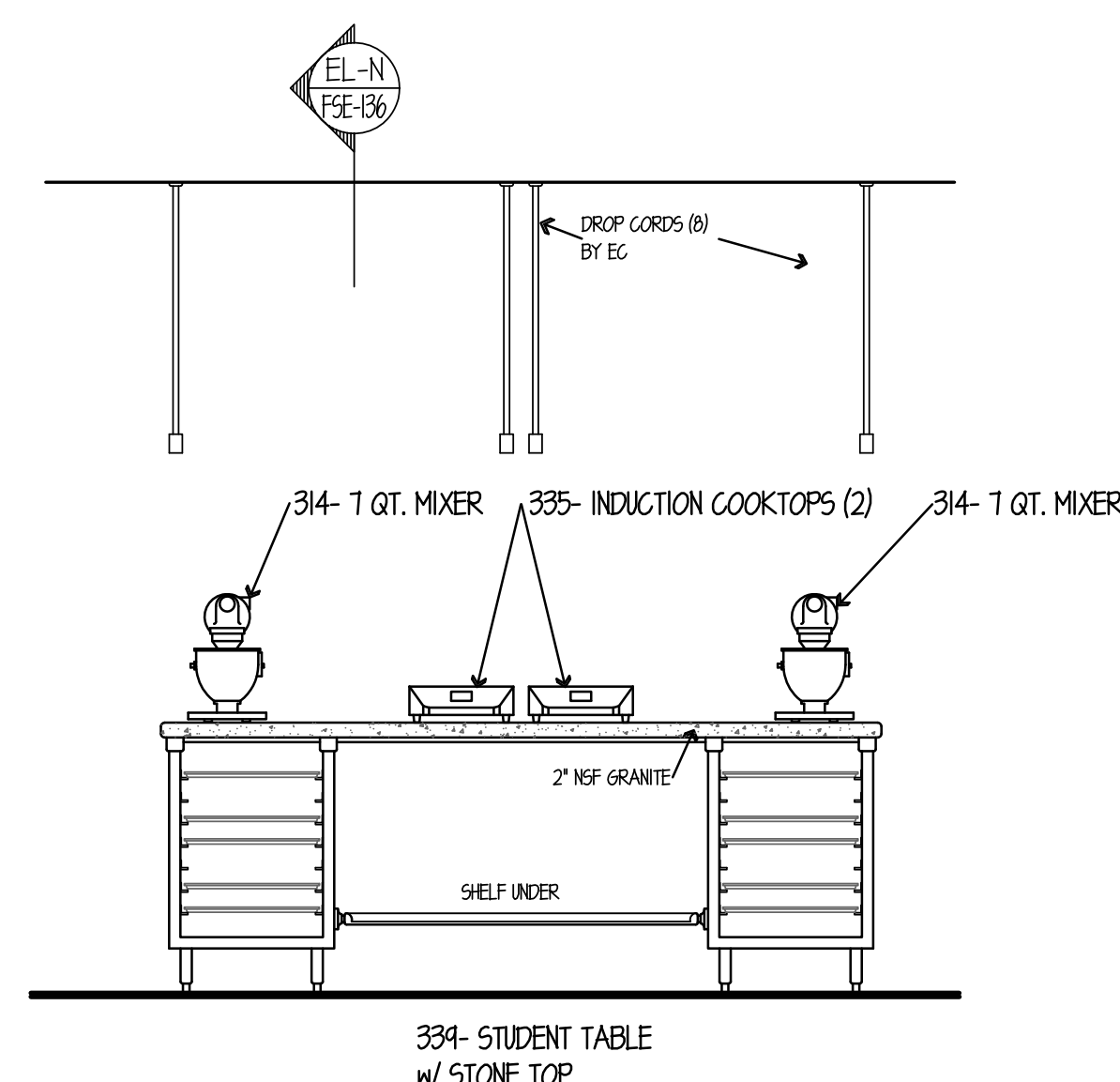
ELEVATION NO. 26  
SCALE 1/2"=1'-0"



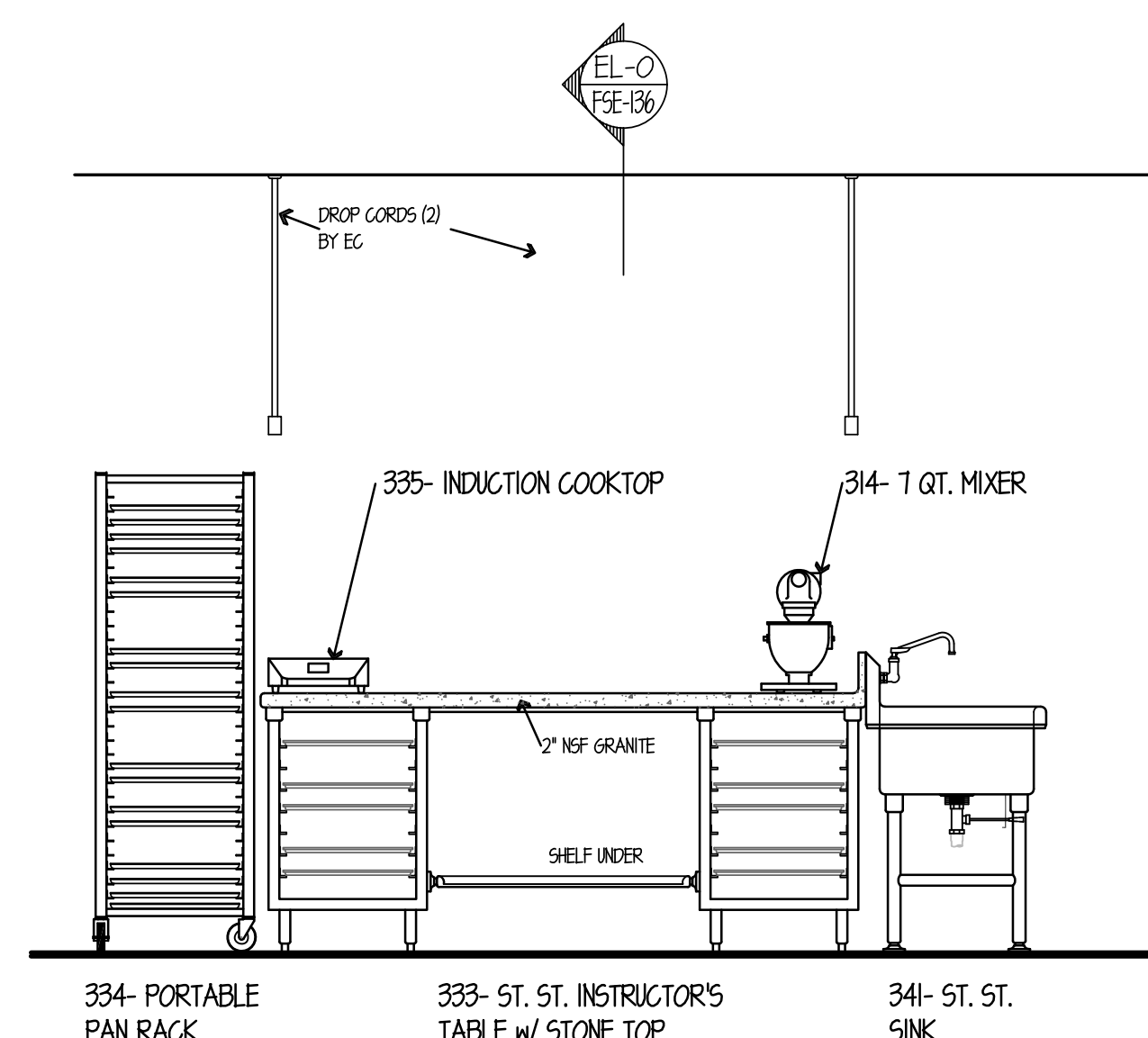
ELEVATION NO. 27  
SCALE 1/2"=1'-0"



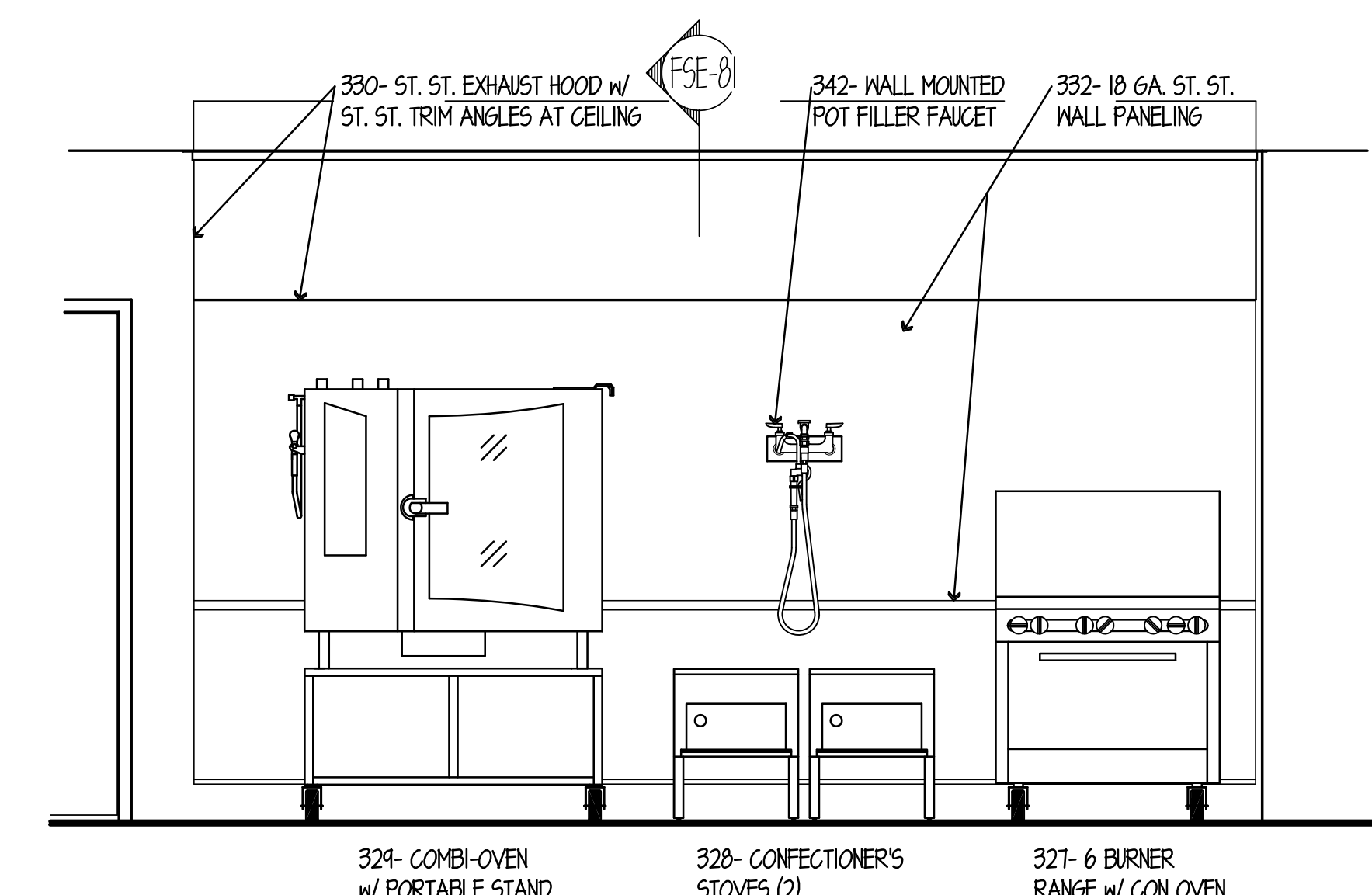
ELEVATION NO. 28  
SCALE 1/2"=1'-0"



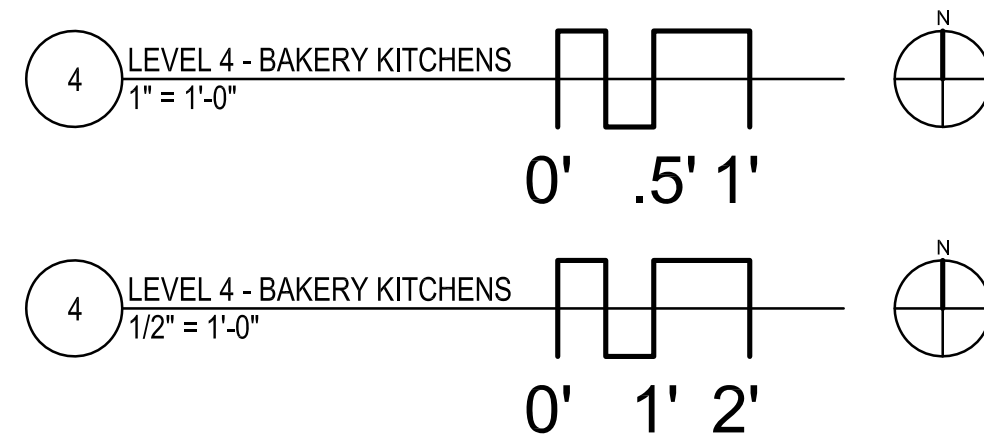
ELEVATION NO. 29  
SCALE 1/2"=1'-0"



ELEVATION NO. 30  
SCALE 1/2"=1'-0"



ELEVATION NO. 31  
SCALE 1/2"=1'-0"



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REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED
GYB	XXX
TRACED	APPROVED
XXX	XXX
CHECKED	APPROVED
XXX	EFW

SIGNED:	EXPIRES:
---------	----------

**DKA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJWW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

**ISSUED FOR CONSTRUCTION**  
**FOOD SERVICE EQUIPMENT - ELEVATION DETAILS**

**CITY CENTER CAMPUS**  
**JOLIET JUNIOR COLLEGE**

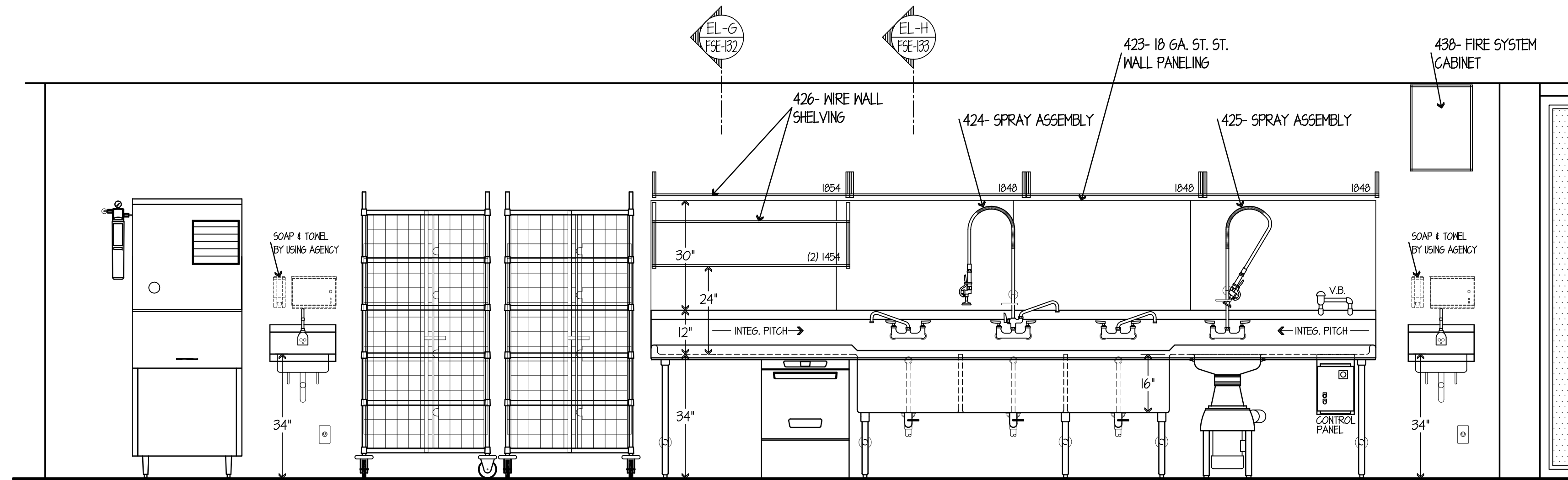
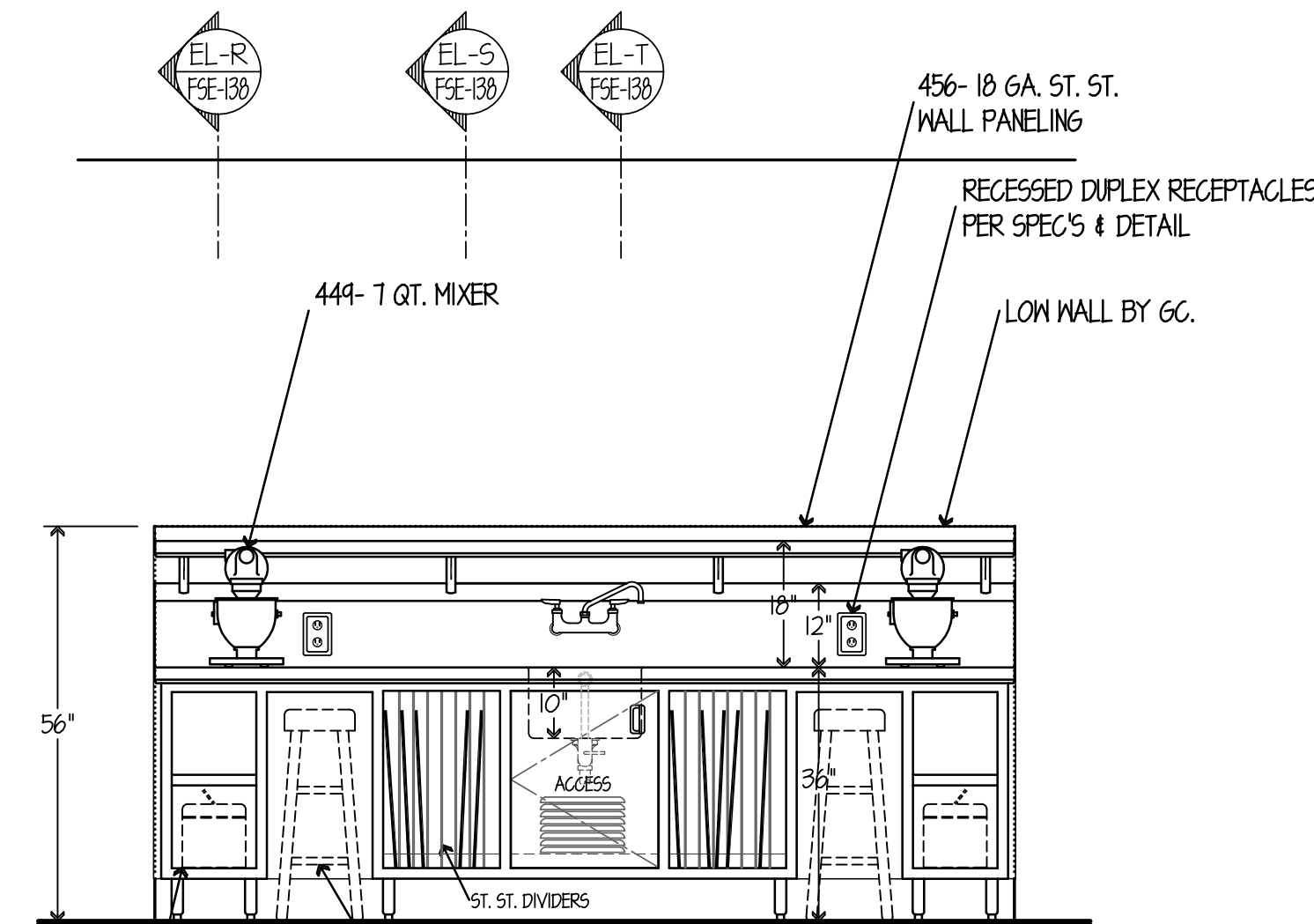
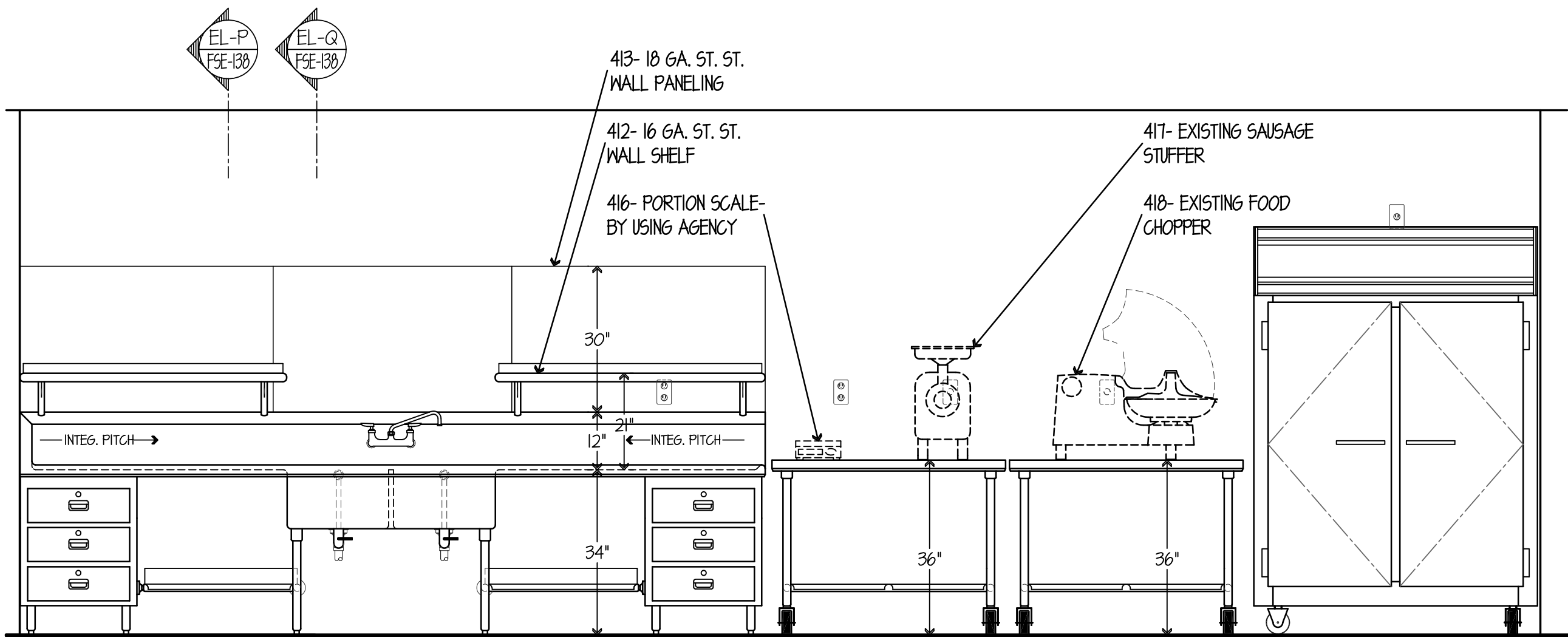
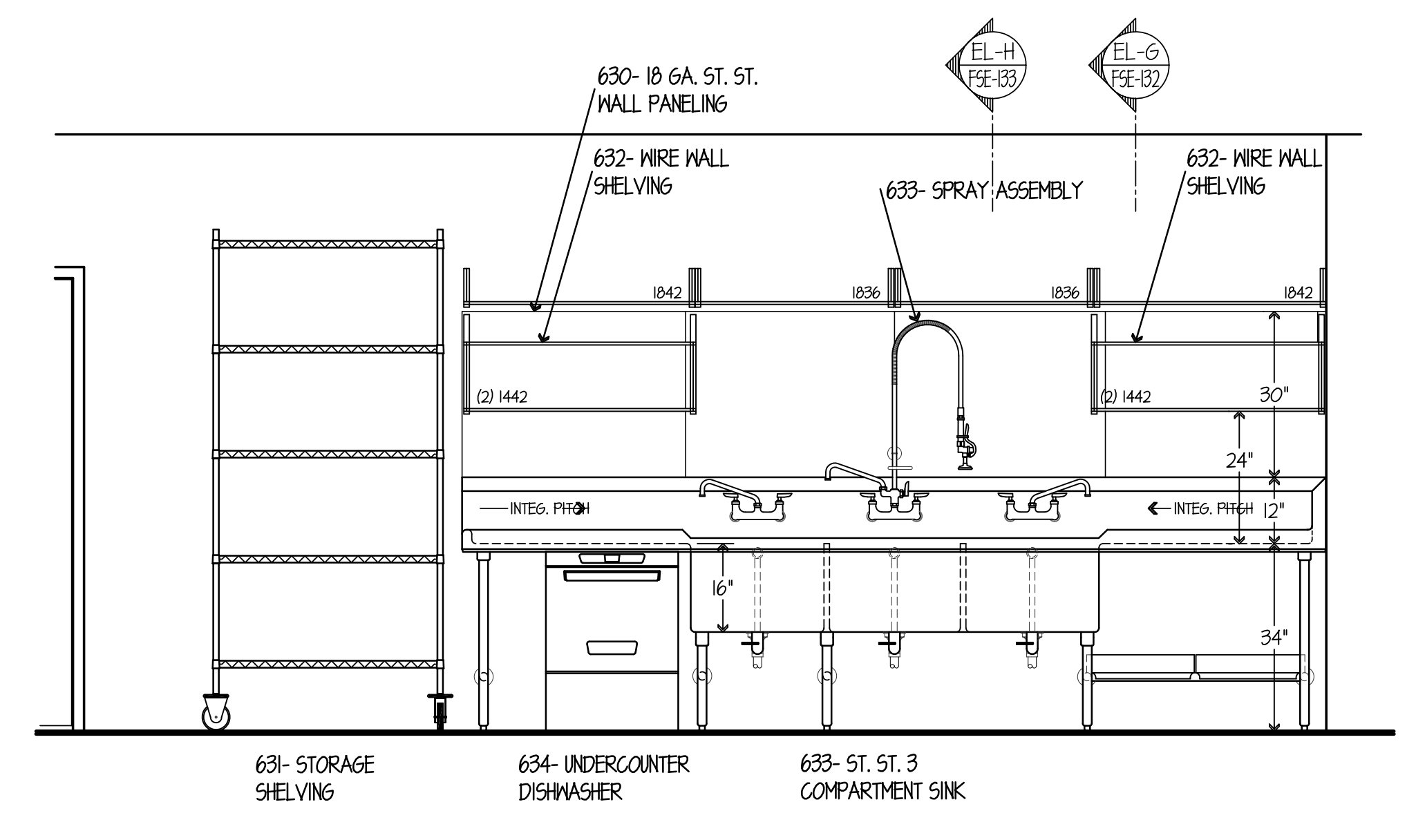
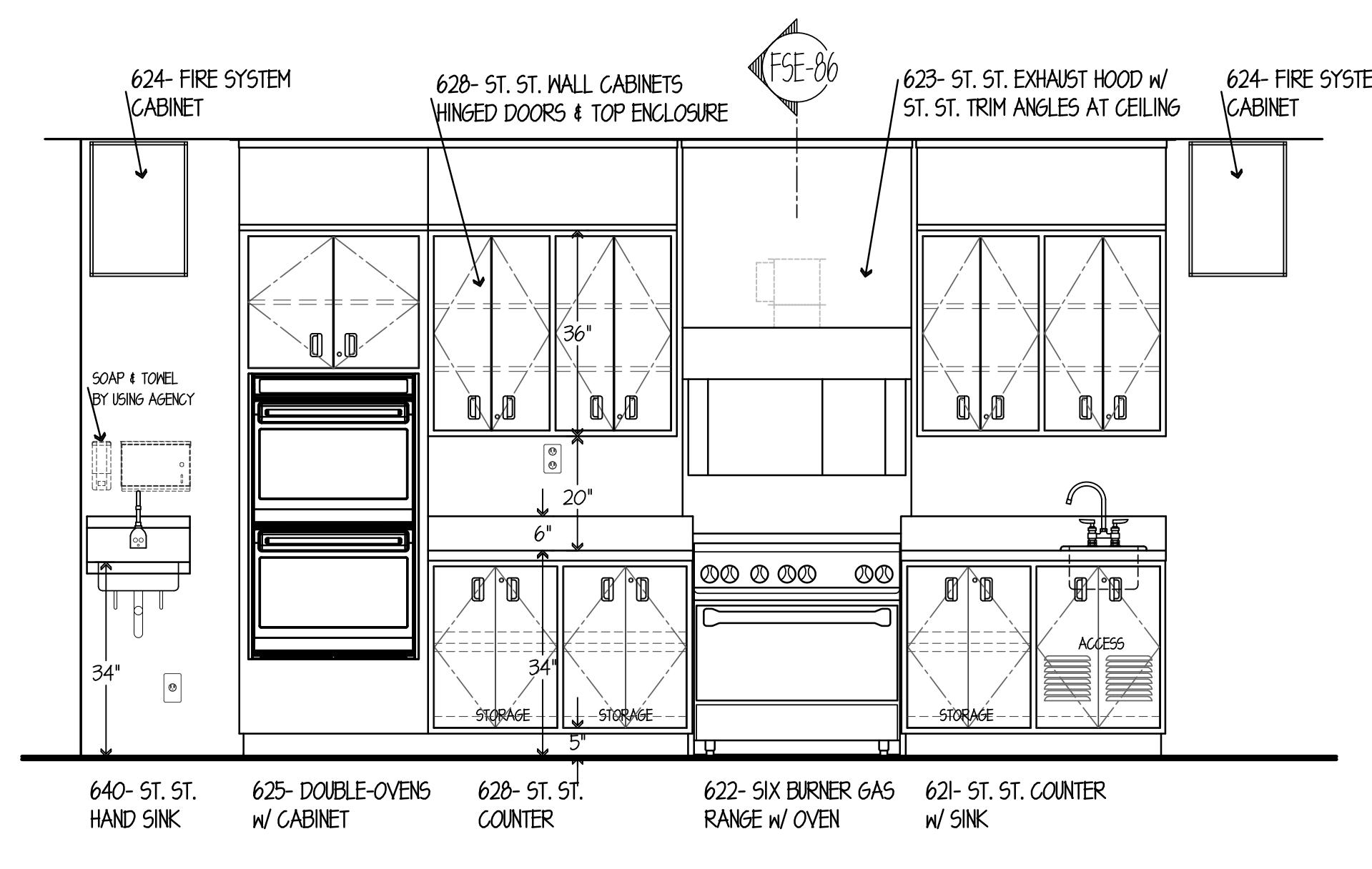
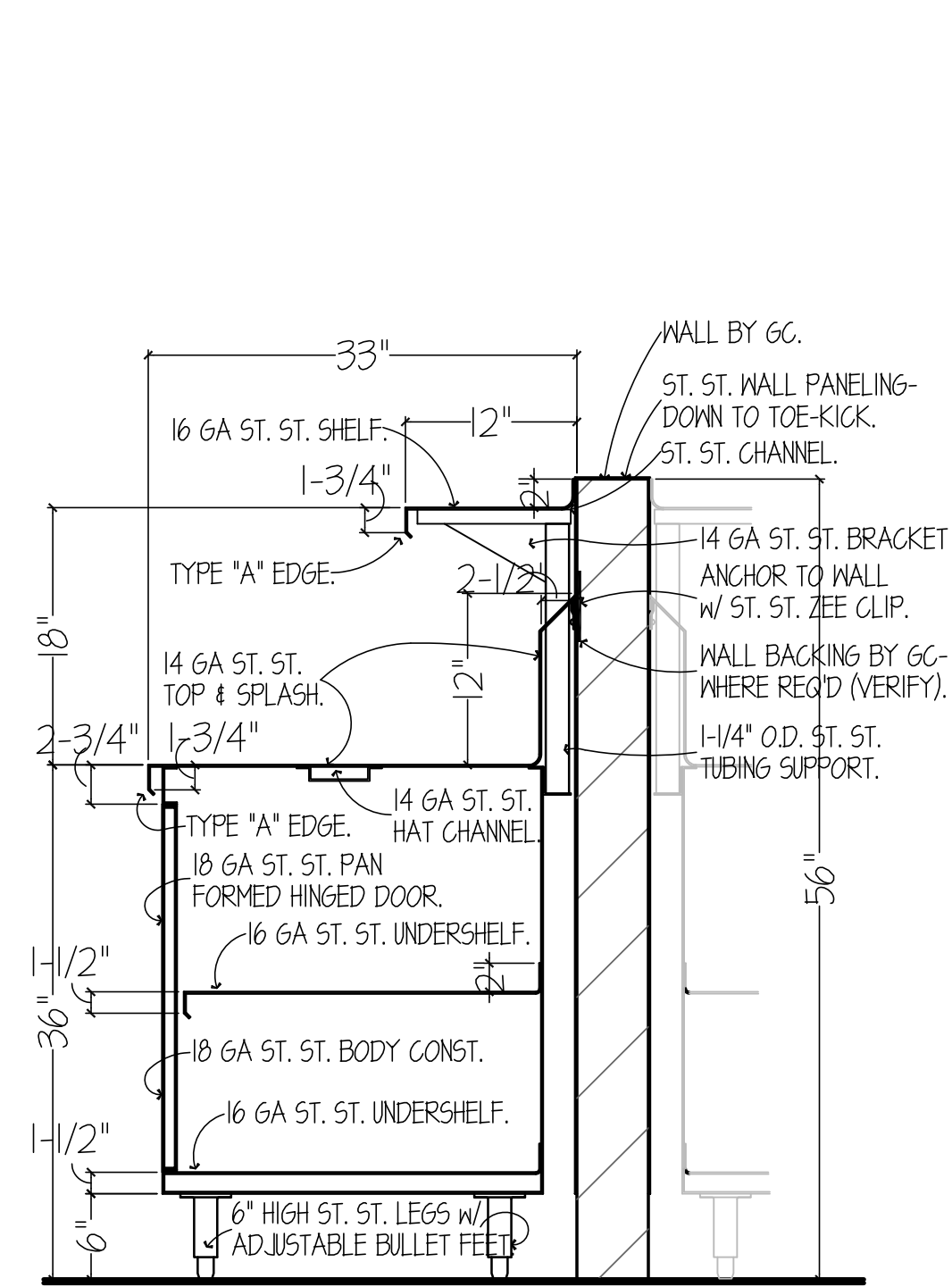
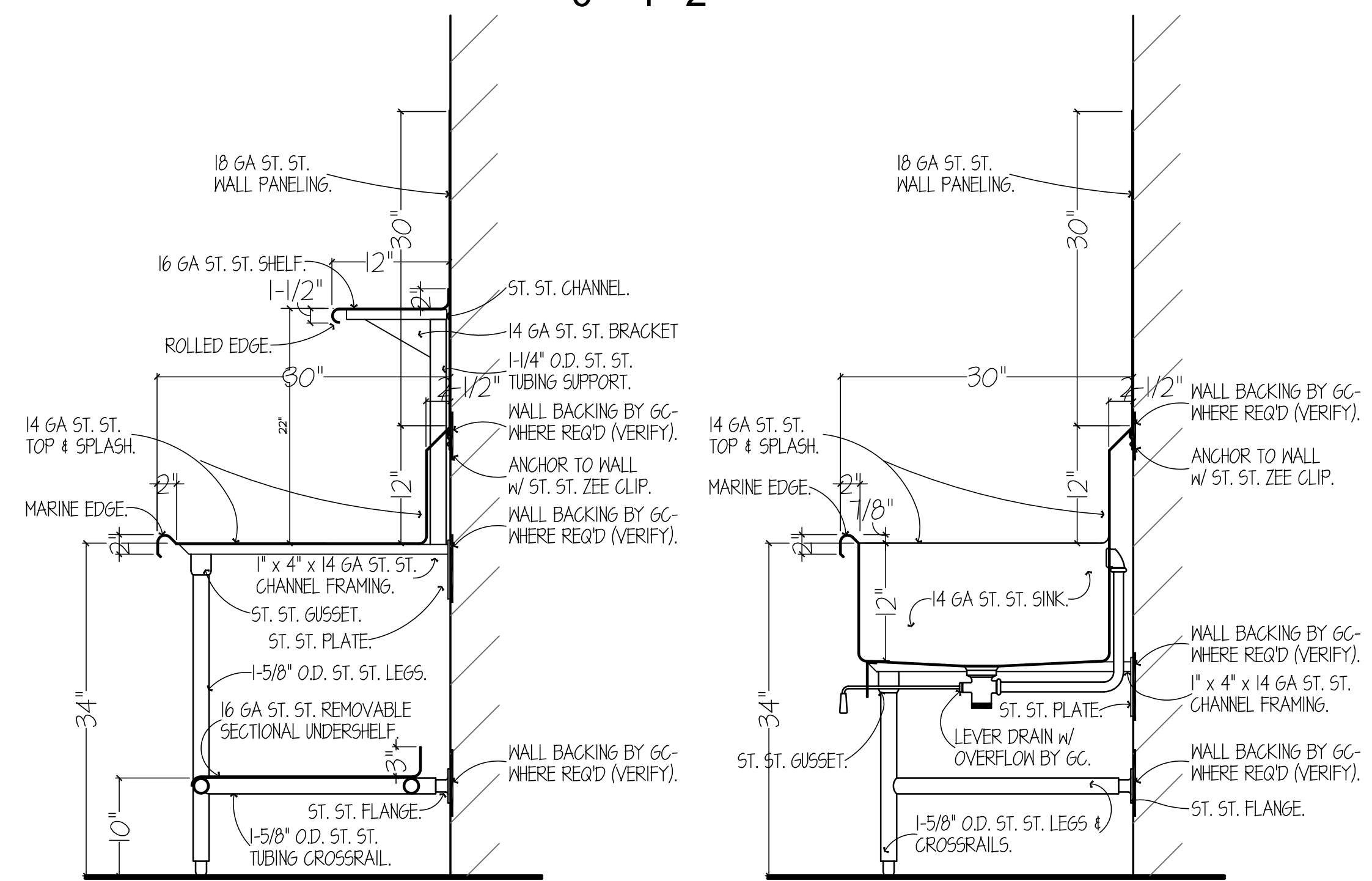
PROJECT NO. CDB 810-048-023  
DATE DEC. 12, 2014  
SHEET NO. **FSE-137** OF SHEETS

3 LEVEL 3 - SPECIAL NEEDS / GARDE MANGER KITCHENS  
1" = 1'-0"

0' .5' 1'

3 LEVEL 3 - SPECIAL NEEDS / GARDE MANGER KITCHENS  
1/2" = 1'-0"

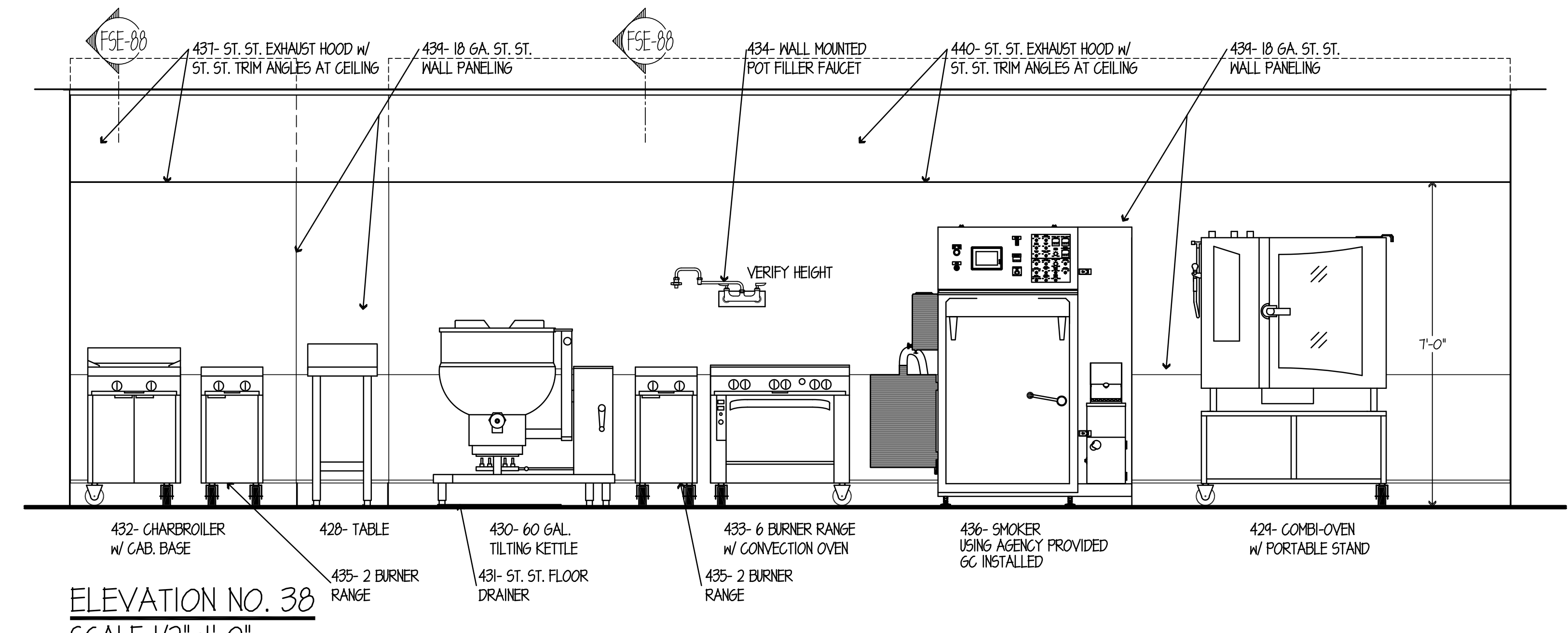
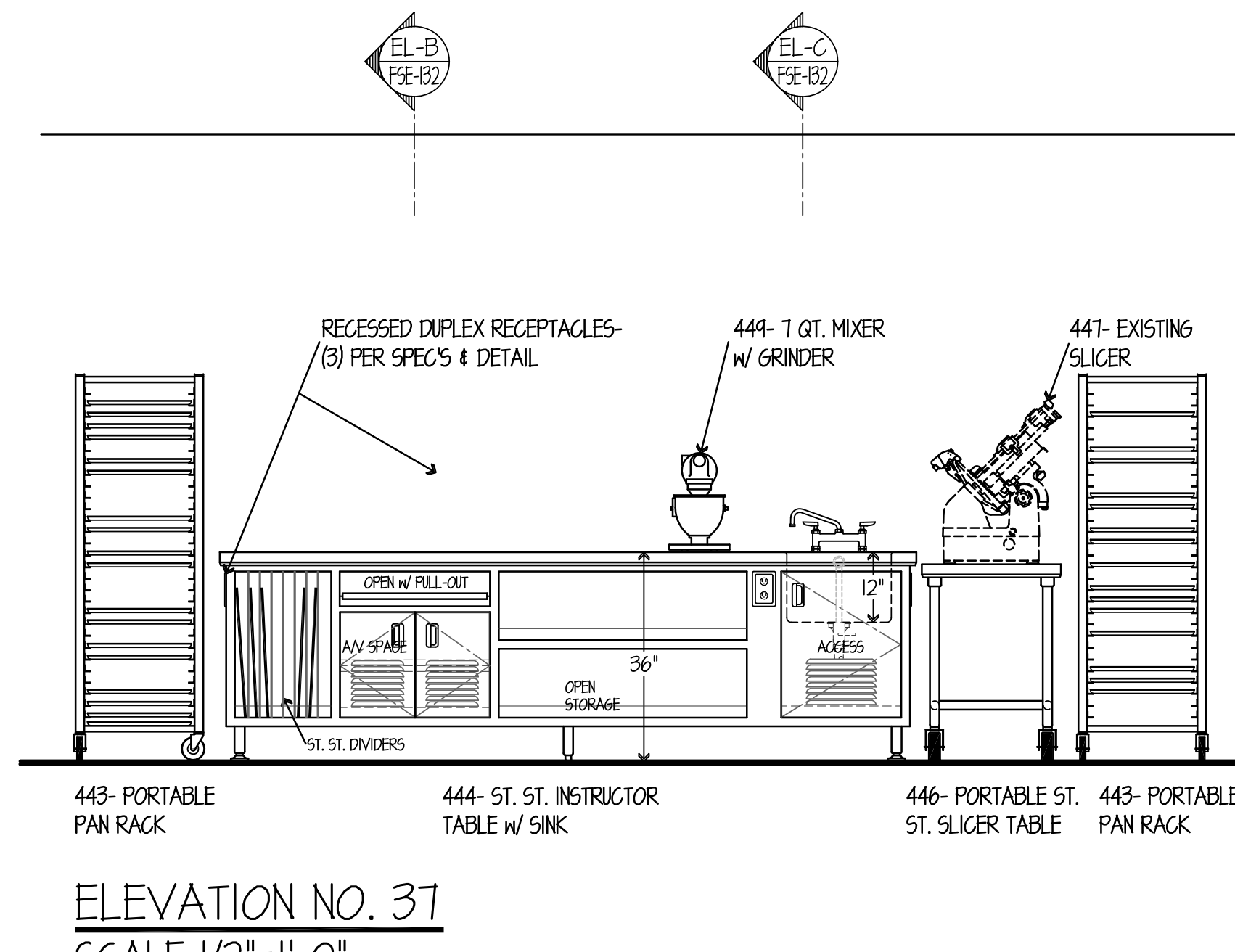
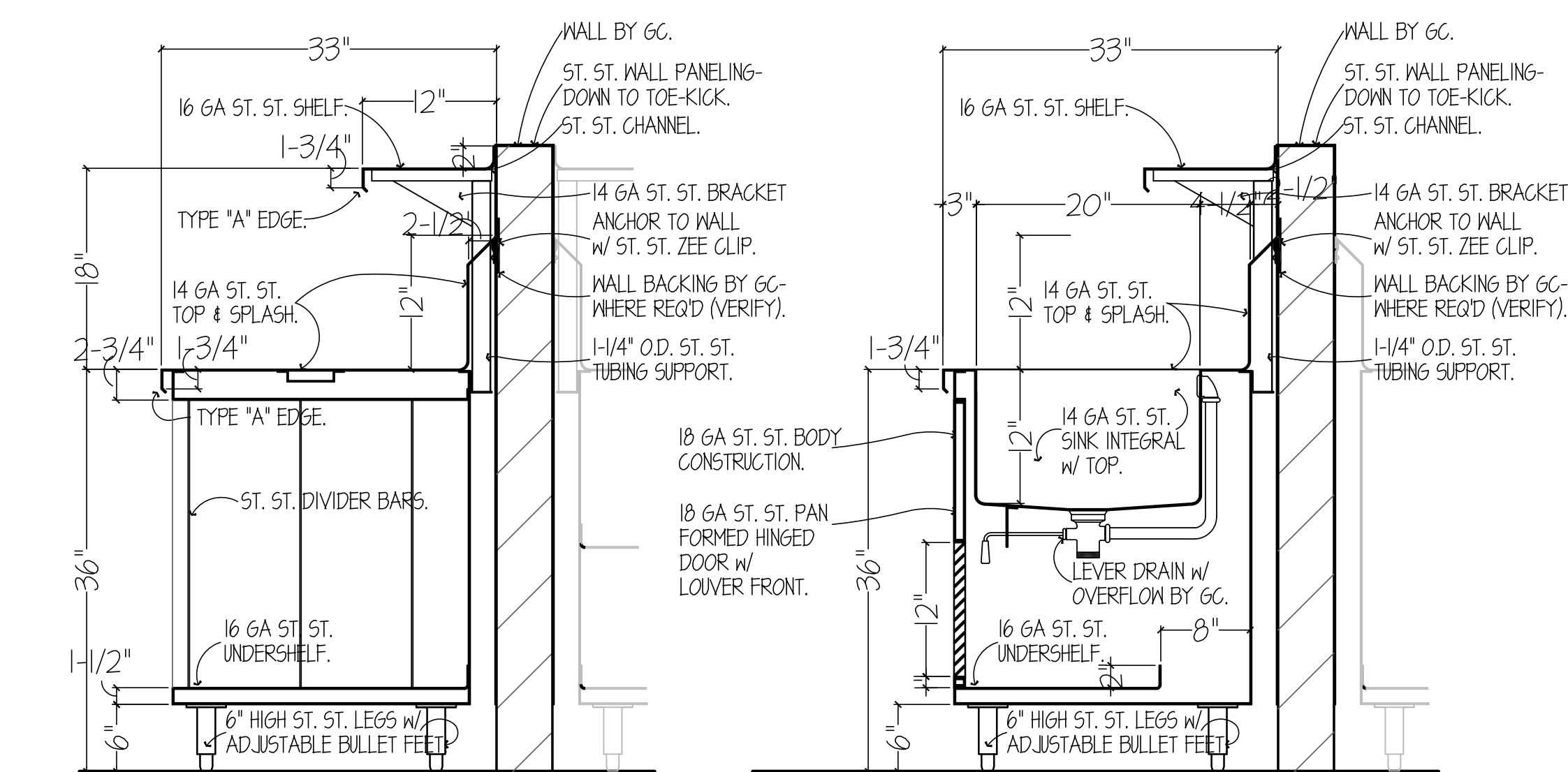
0' 1' 2'



ELEVATION NO. 34  
SCALE 1/2"=1'-0"

ELEVATION NO. 35  
SCALE 1/2"=1'-0"

ELEVATION NO. 36  
SCALE 1/2"=1'-0"



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REVISIONS		
NO.	DESCRIPTION	DATE
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DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJWW** K.J.WW ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563  
T: 630.527.2320

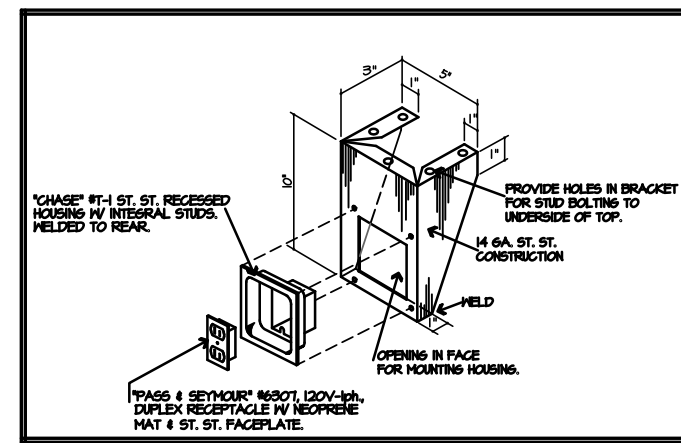
**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009  
T: 248.644.0990

ISSUED FOR CONSTRUCTION  
FOOD SERVICE EQUIPMENT - ELEVATION DETAILS

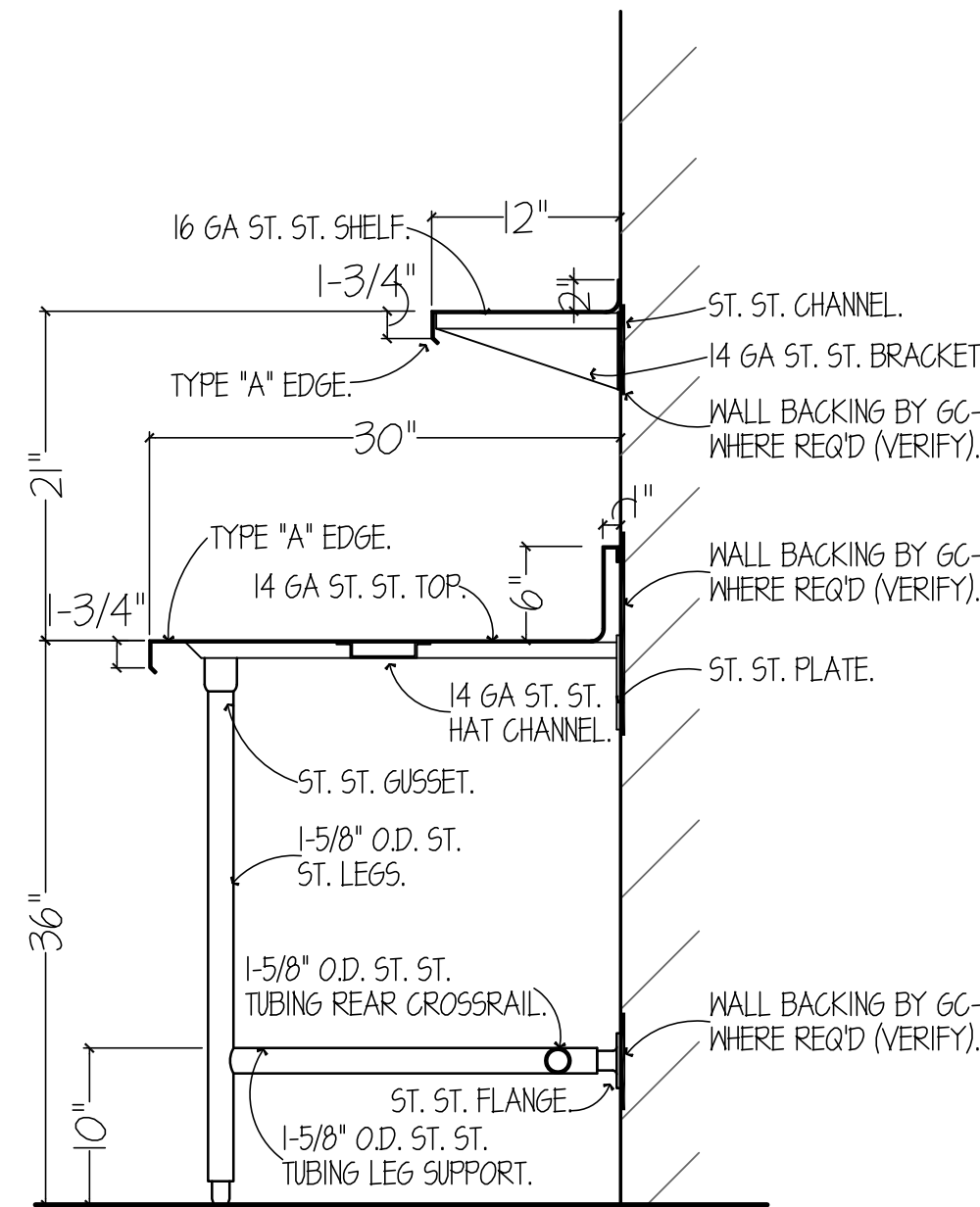
CITY CENTER CAMPUS  
JOLIET JUNIOR COLLEGE

PROJECT NO.  
CDB 810-048-023  
DATE  
DEC. 12, 2014  
SHEET NO.  
**FSE-138**  
OF SHEETS

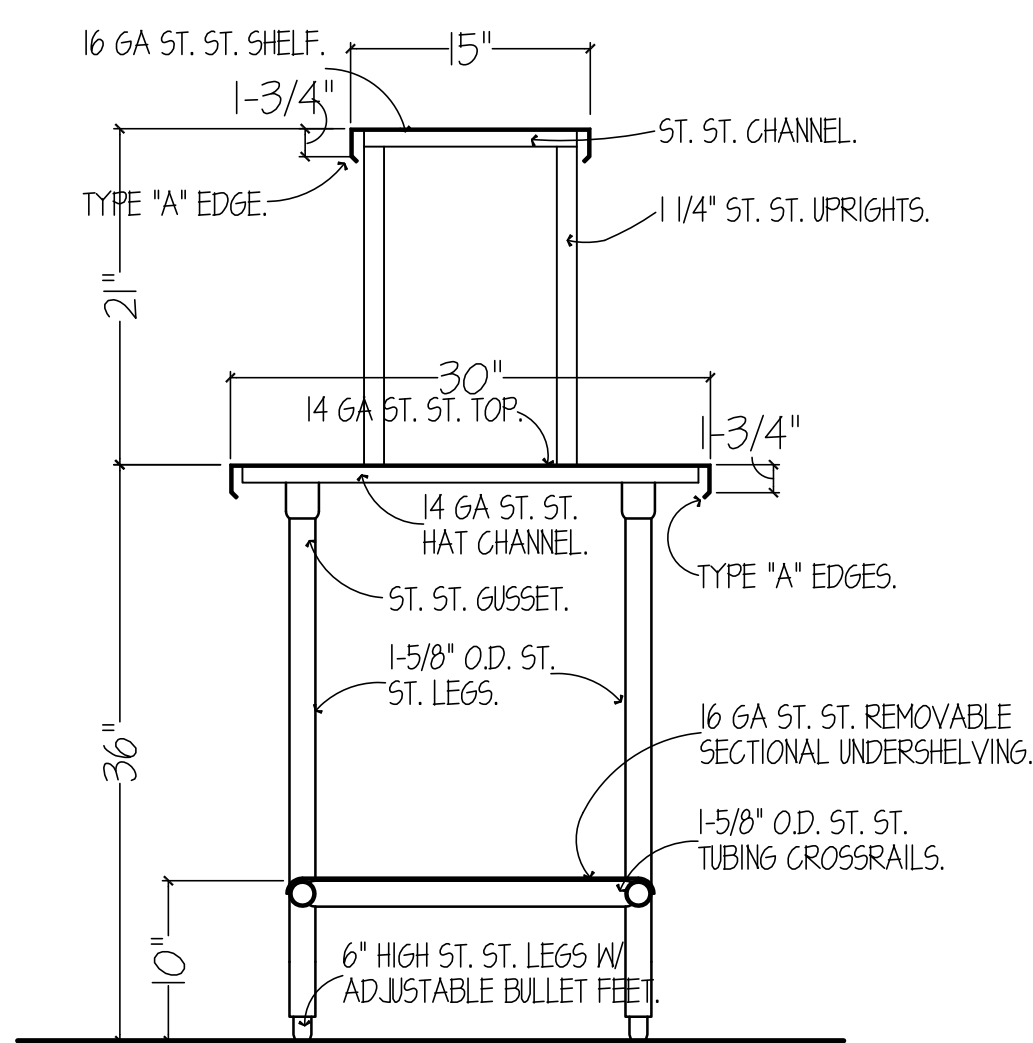




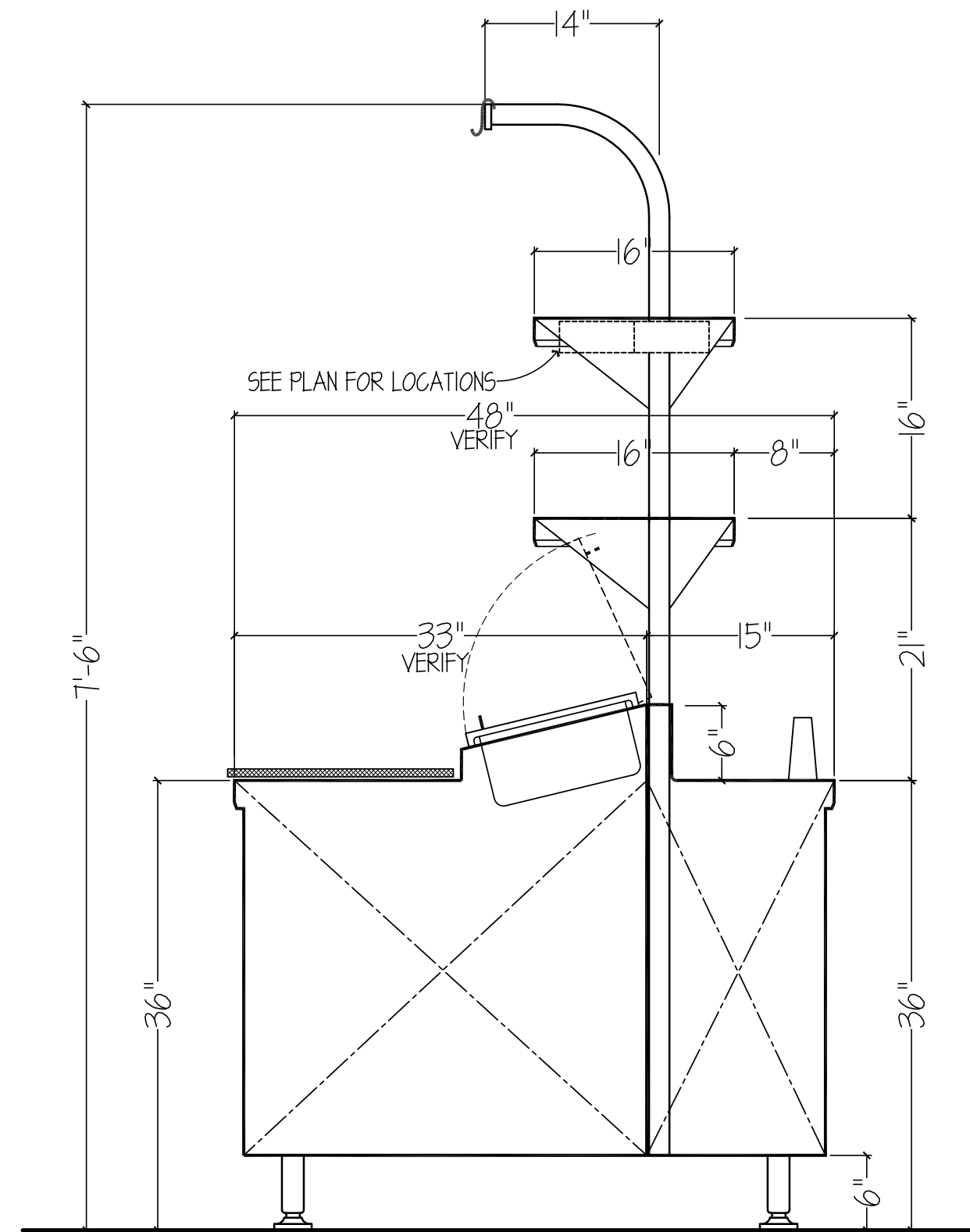
**RECEPTACLE  
BRACKET DETAIL**  
NO SCALE



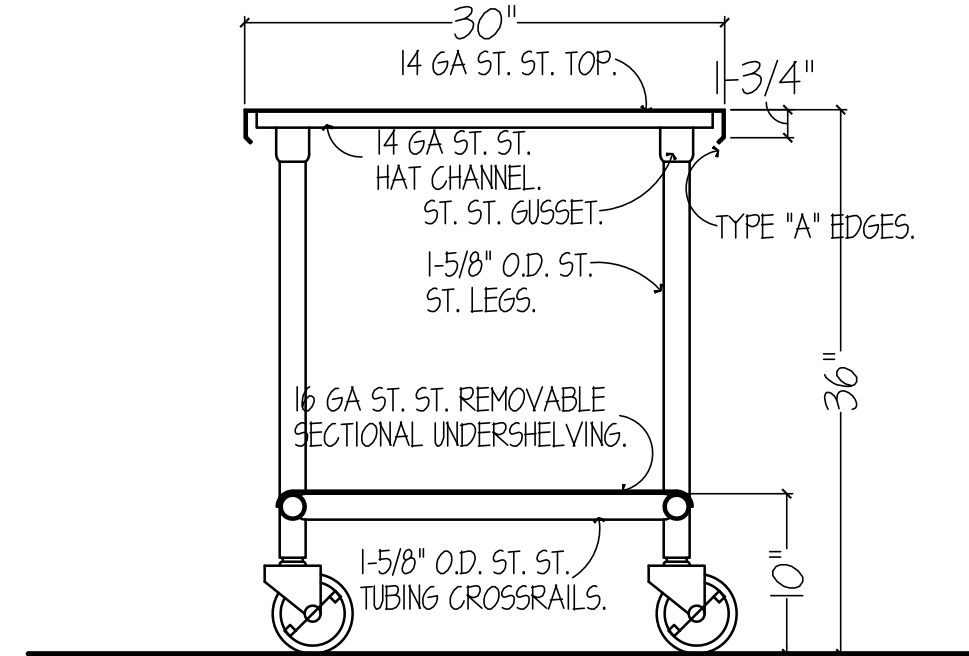
**SECTION "EL-U"**  
SCALE 1"=1'-0"



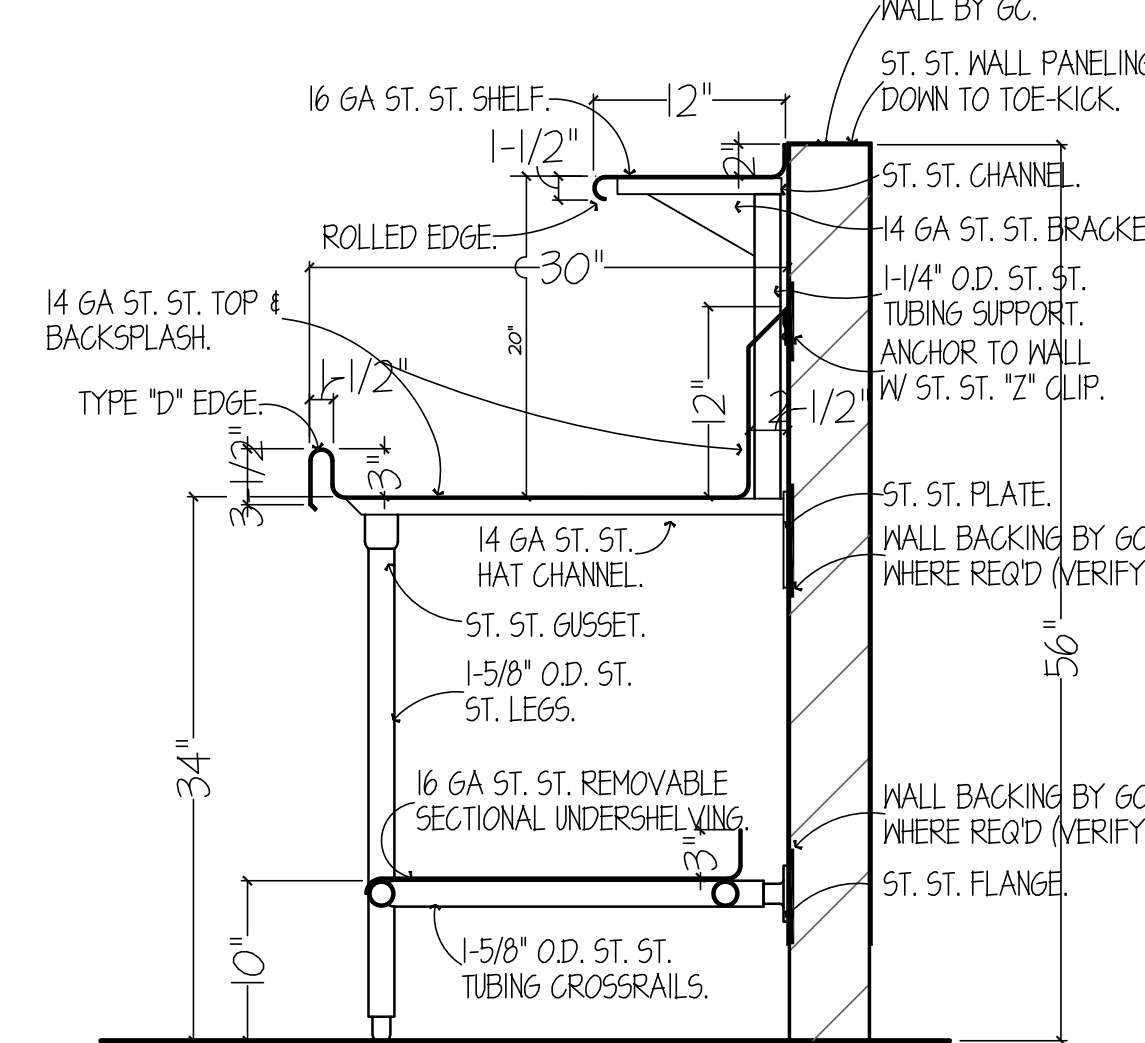
**SECTION "EL-V"**  
SCALE 1"=1'-0"



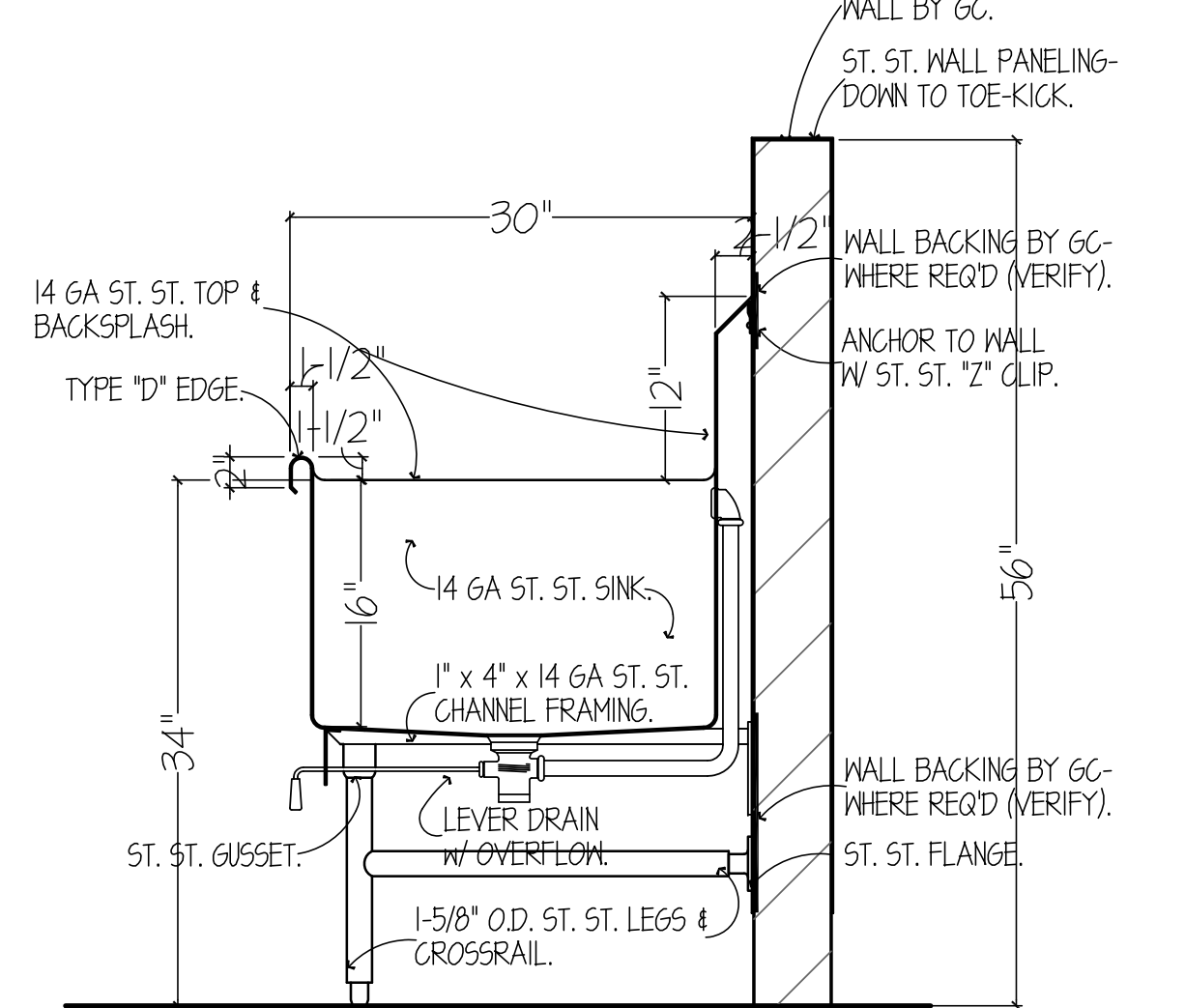
**SECTION "EL-W"**  
SCALE 1"=1'-0"



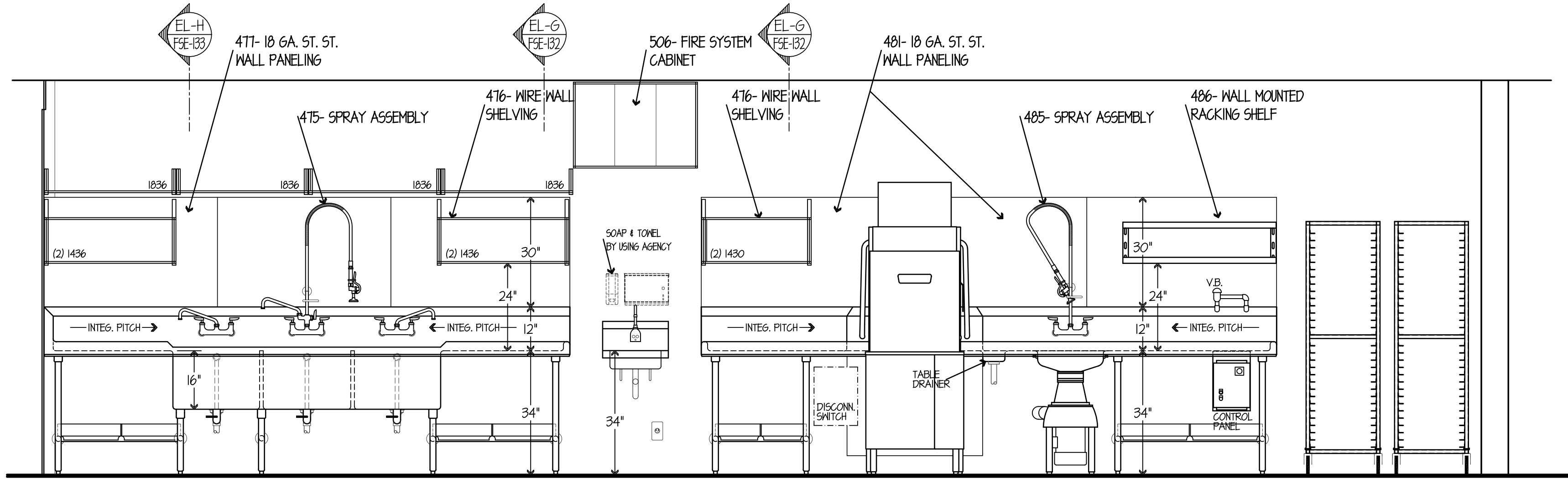
**SECTION "EL-X"**  
SCALE 1"=1'-0"



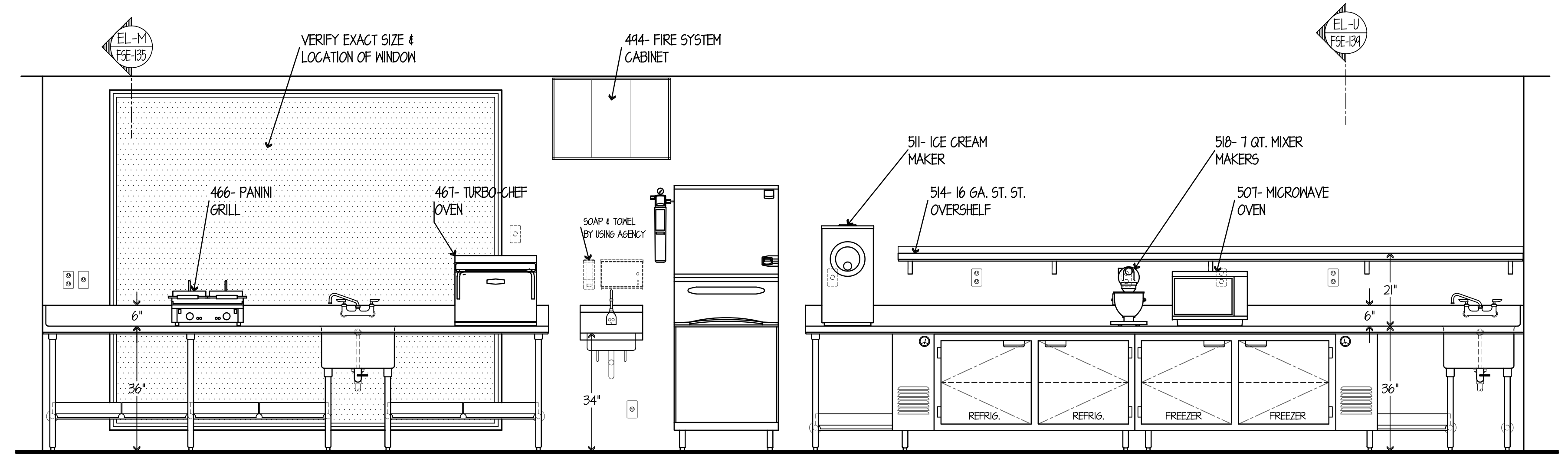
**SECTION "EL-Y"**  
SCALE 1"=1'-0"



**SECTION "EL-Z"**  
SCALE 1"=1'-0"

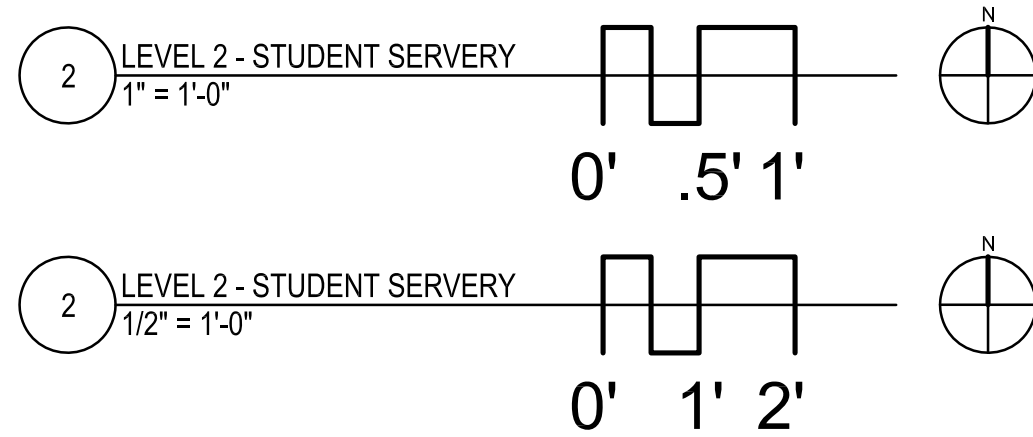


**ELEVATION NO. 39**  
SCALE 1/2"=1'-0"

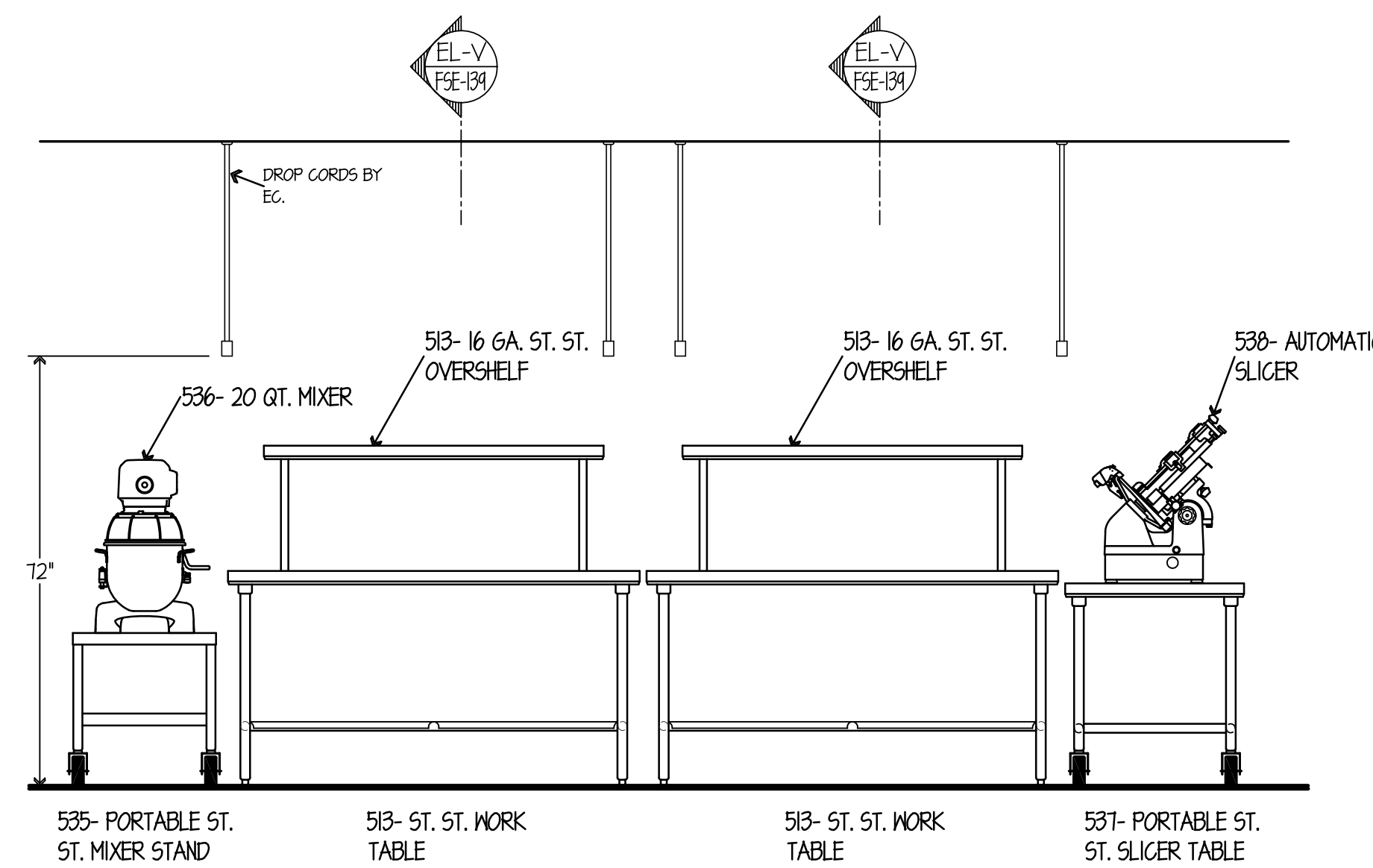


**ELEVATION NO. 40**  
SCALE 1/2"=1'-0"

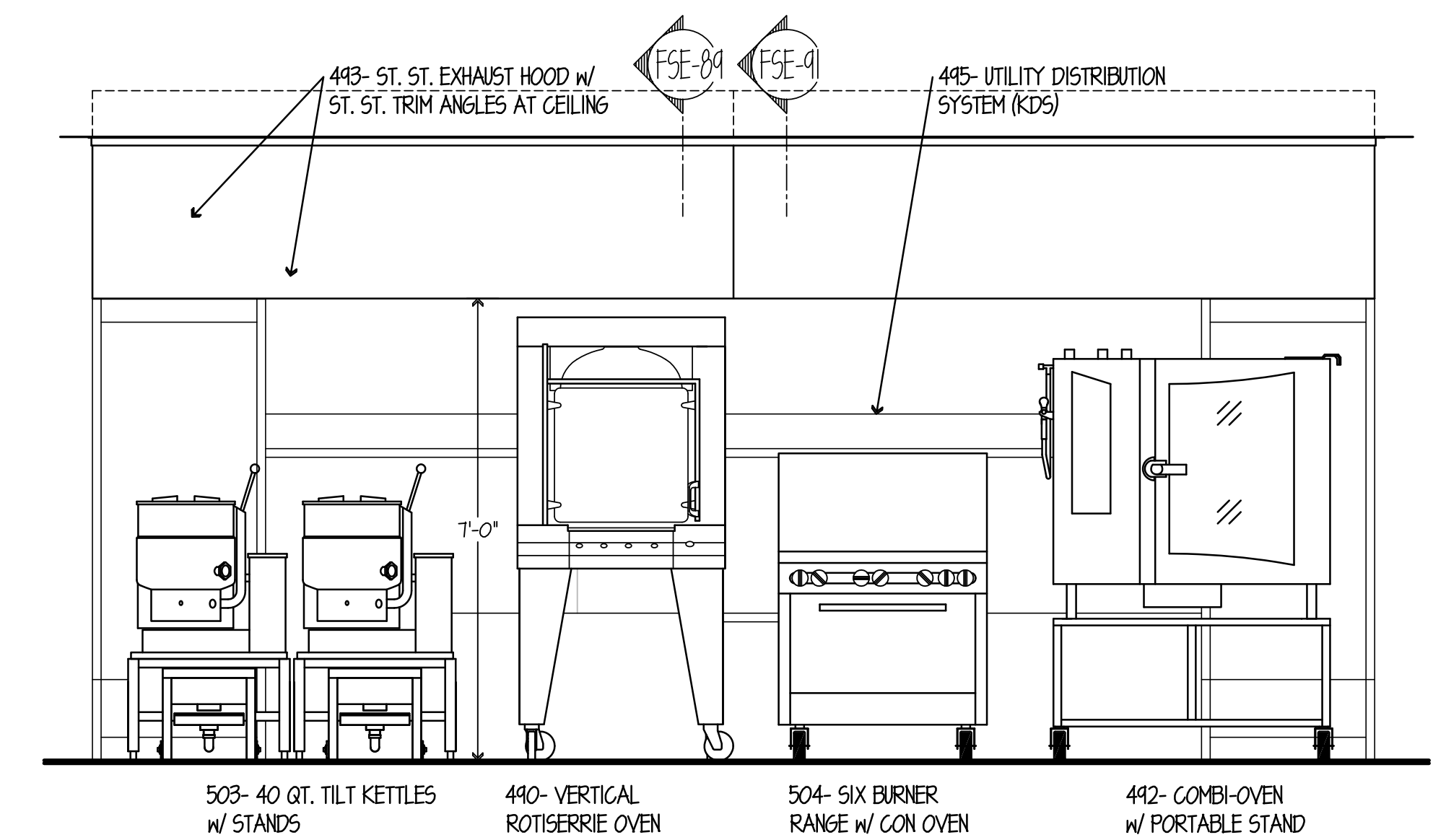
ELEVATION NO. 41 - OMIT / NOT USED



**ELEVATION NO. 41**  
SCALE 1/2"=1'-0"



**ELEVATION NO. 42**  
SCALE 1/2"=1'-0"



**ELEVATION NO. 43**  
SCALE 1/2"=1'-0"

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

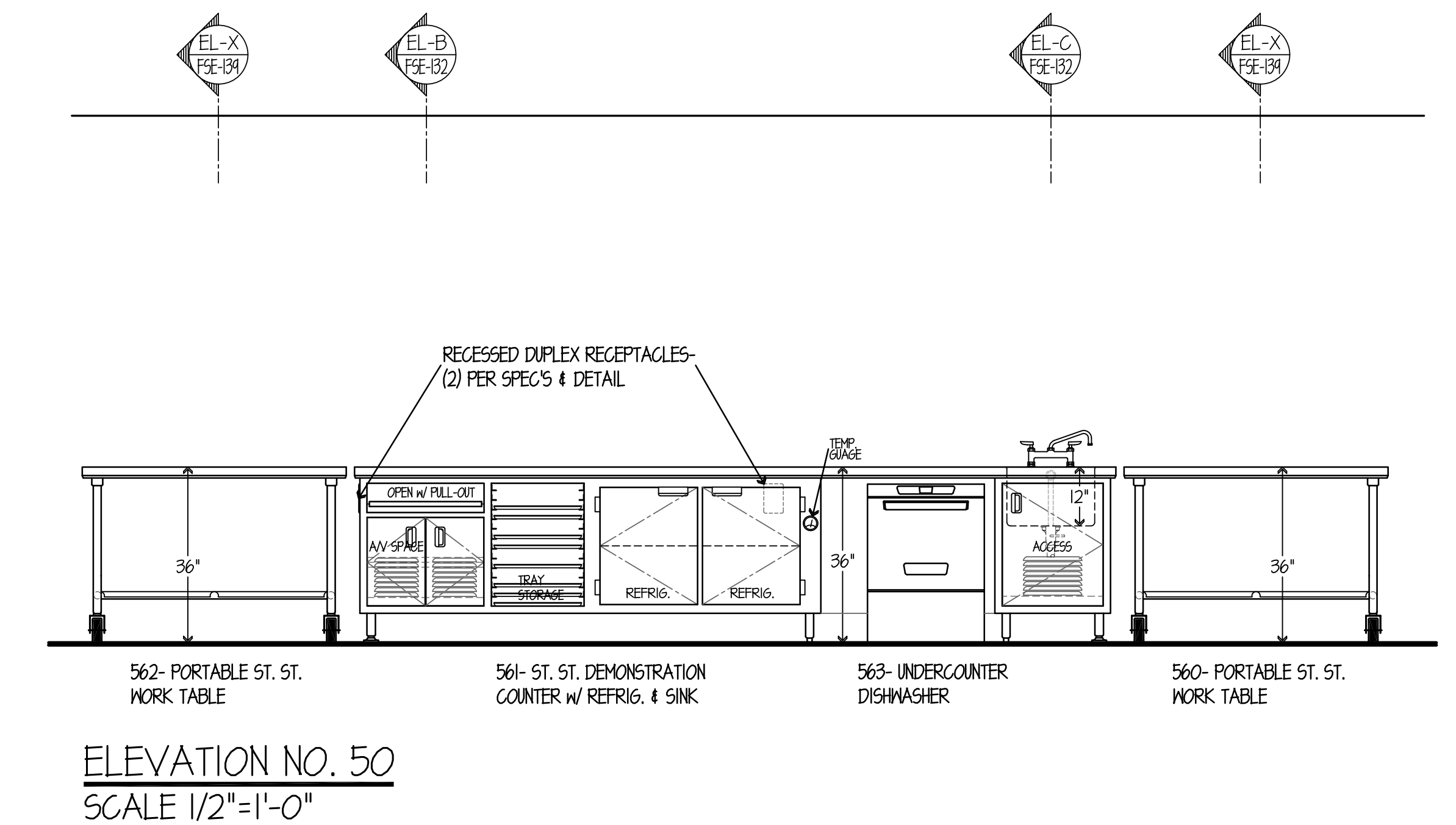
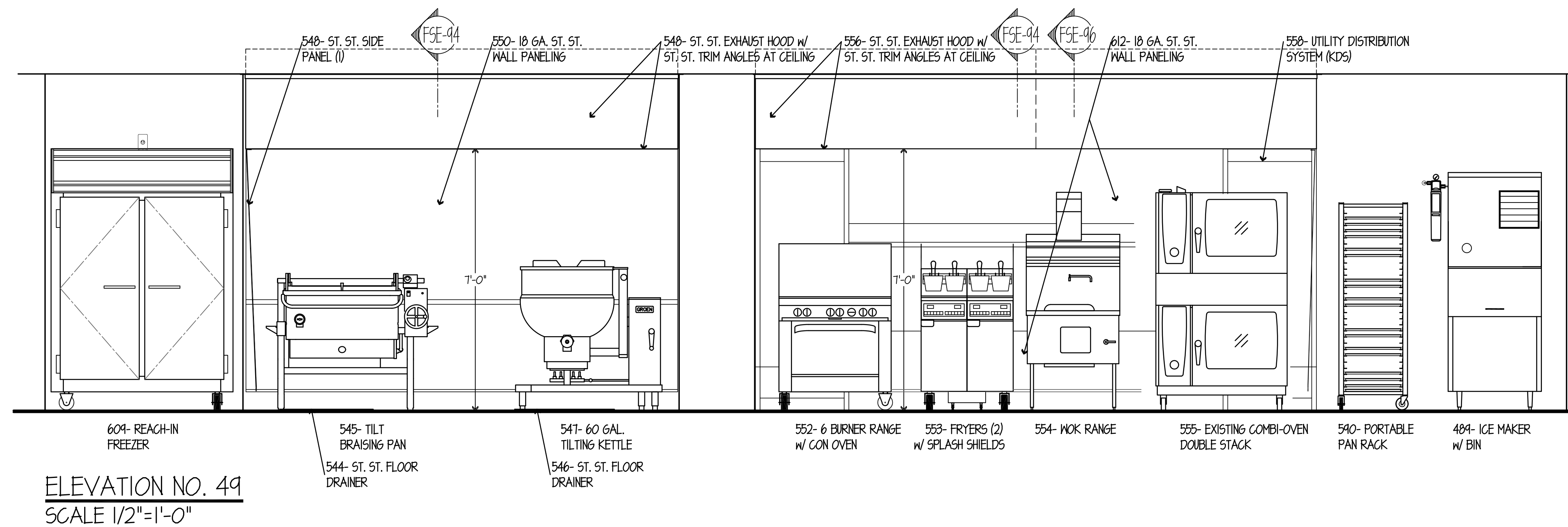
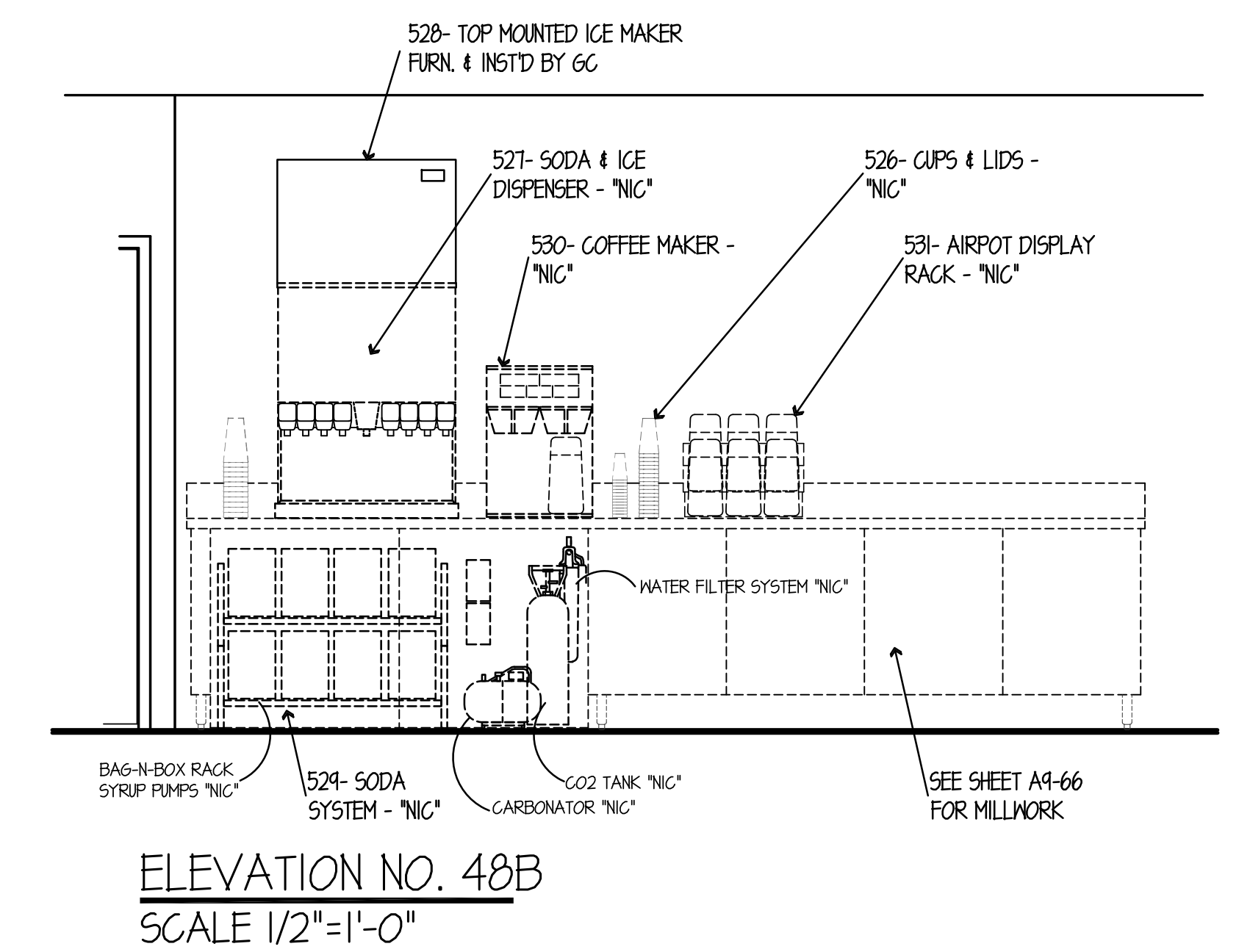
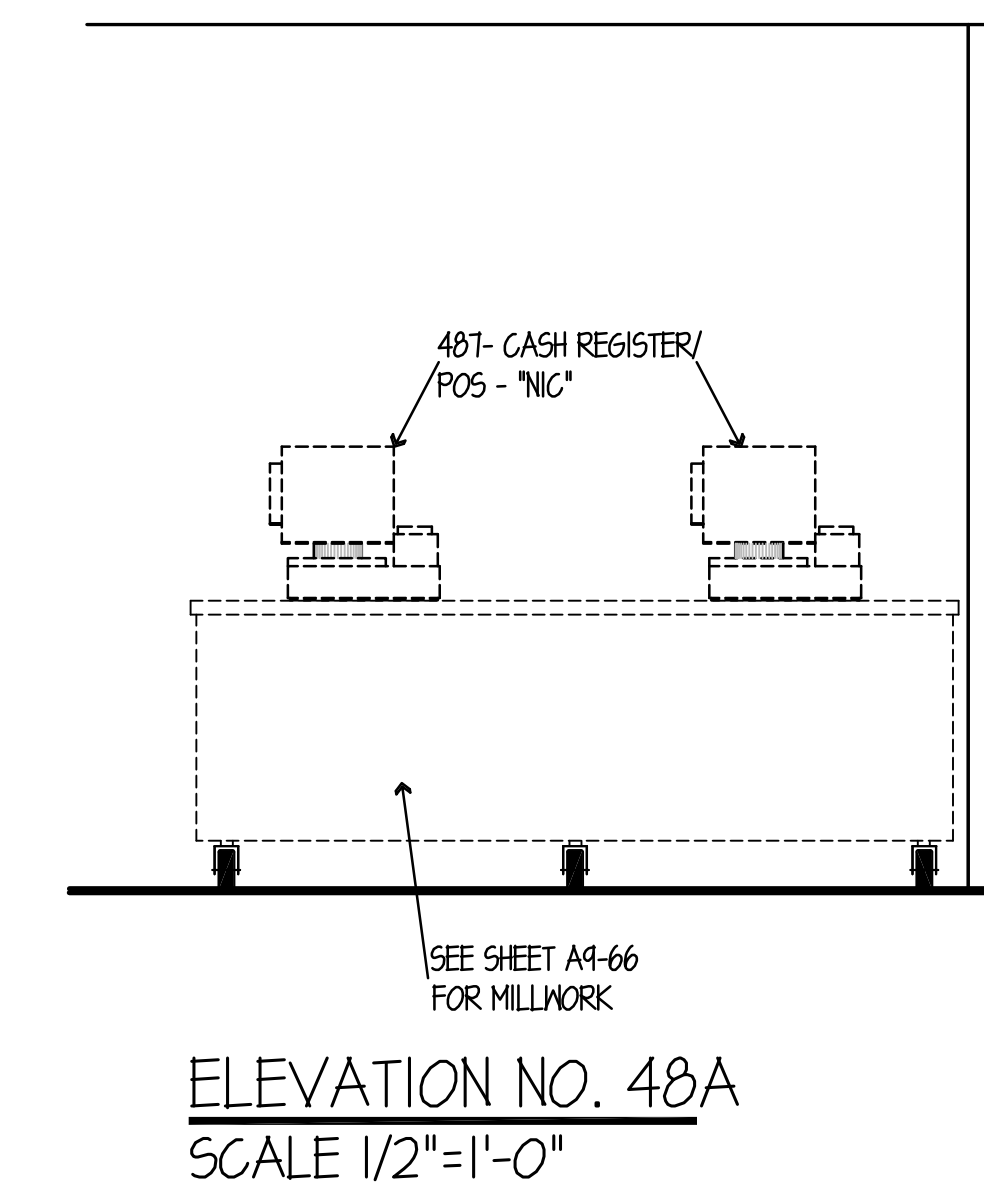
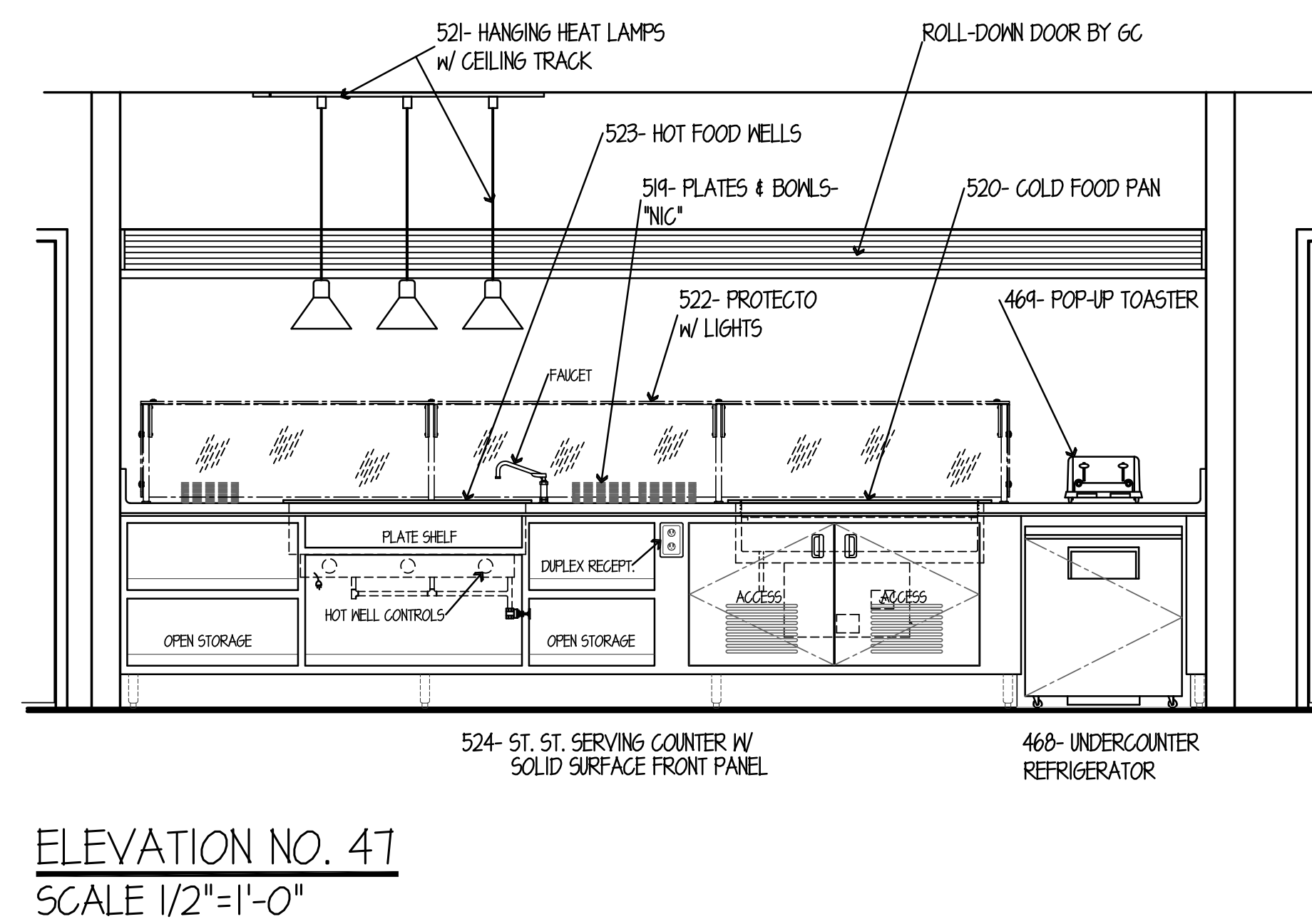
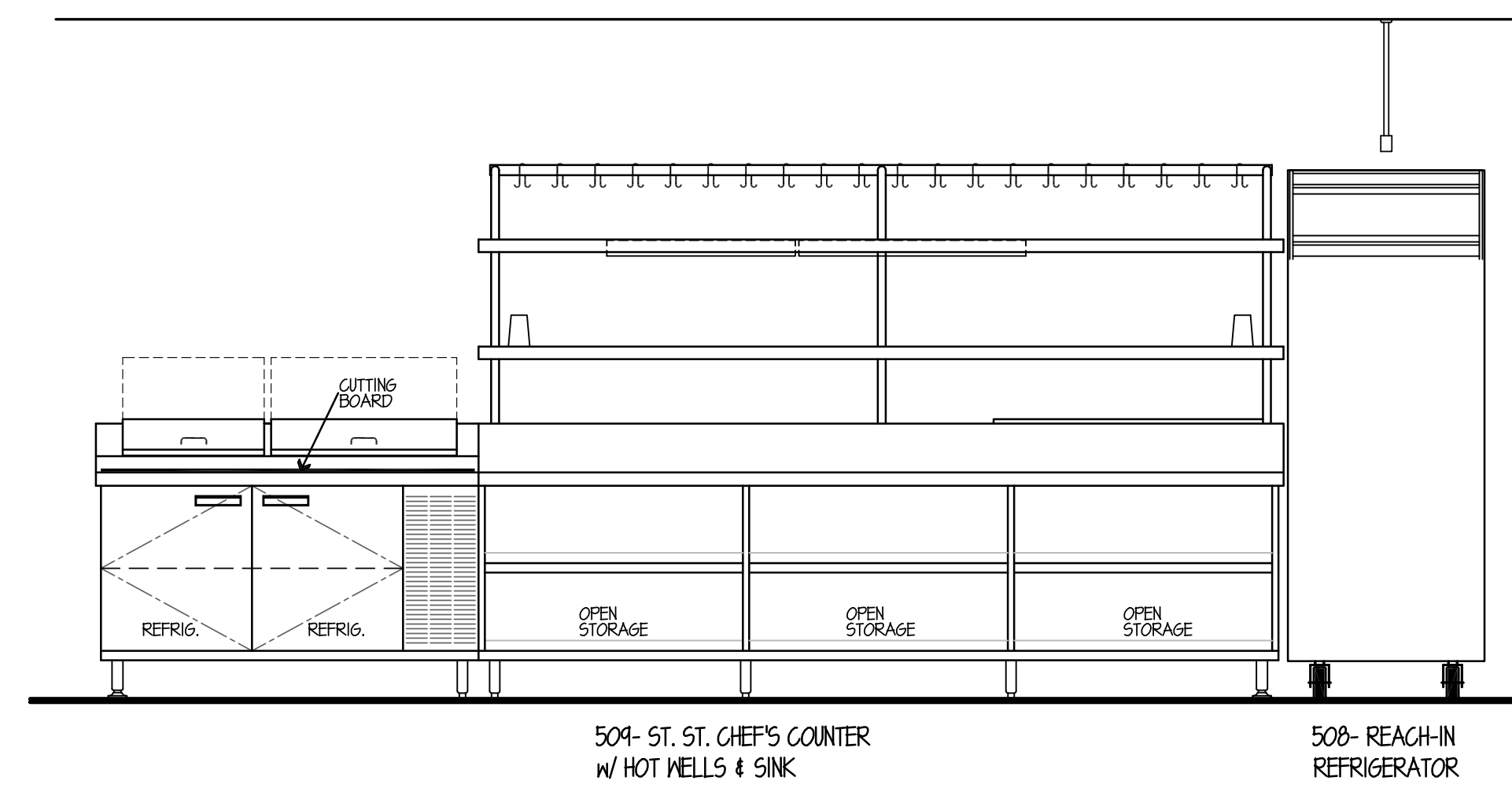
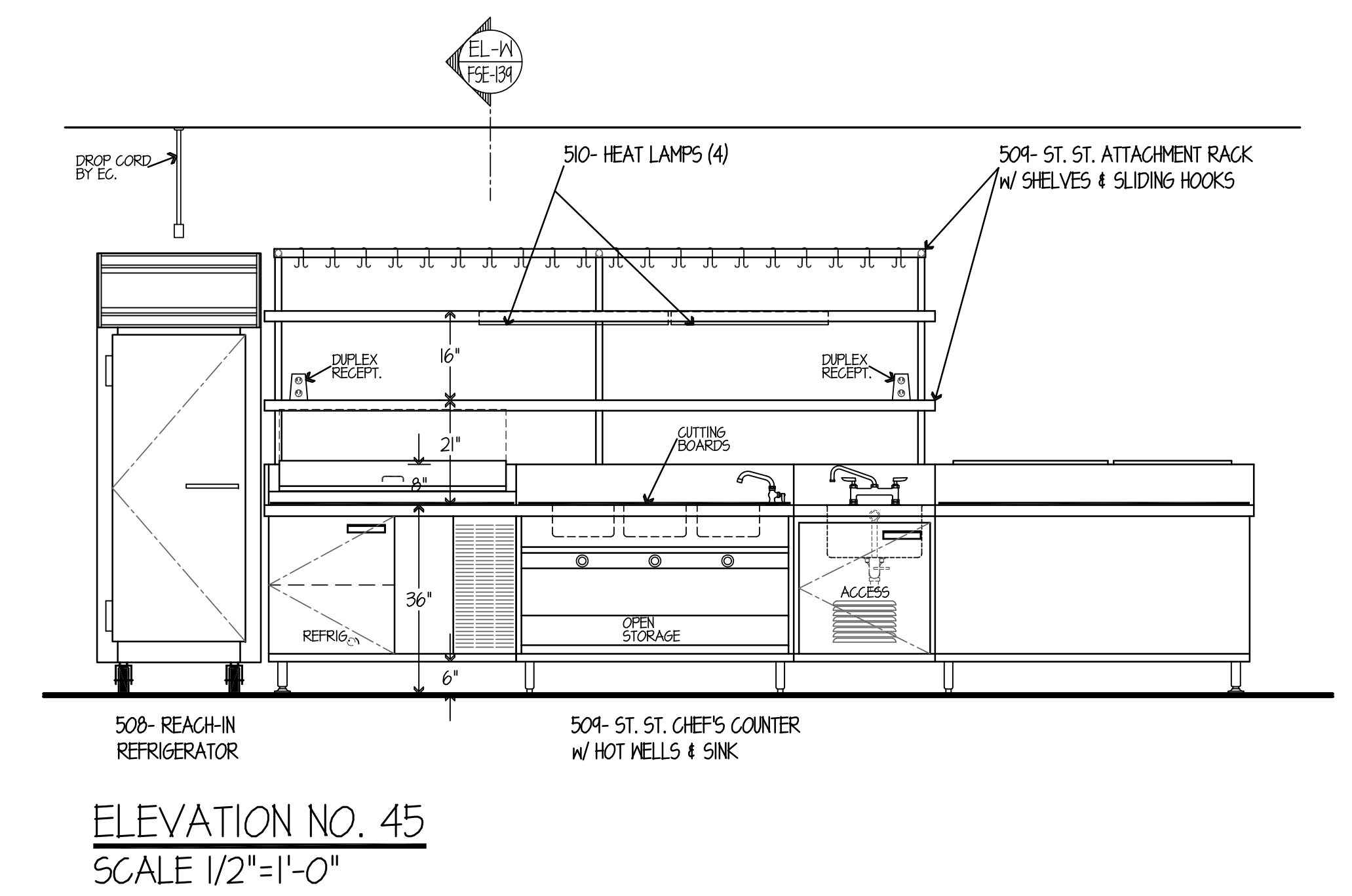
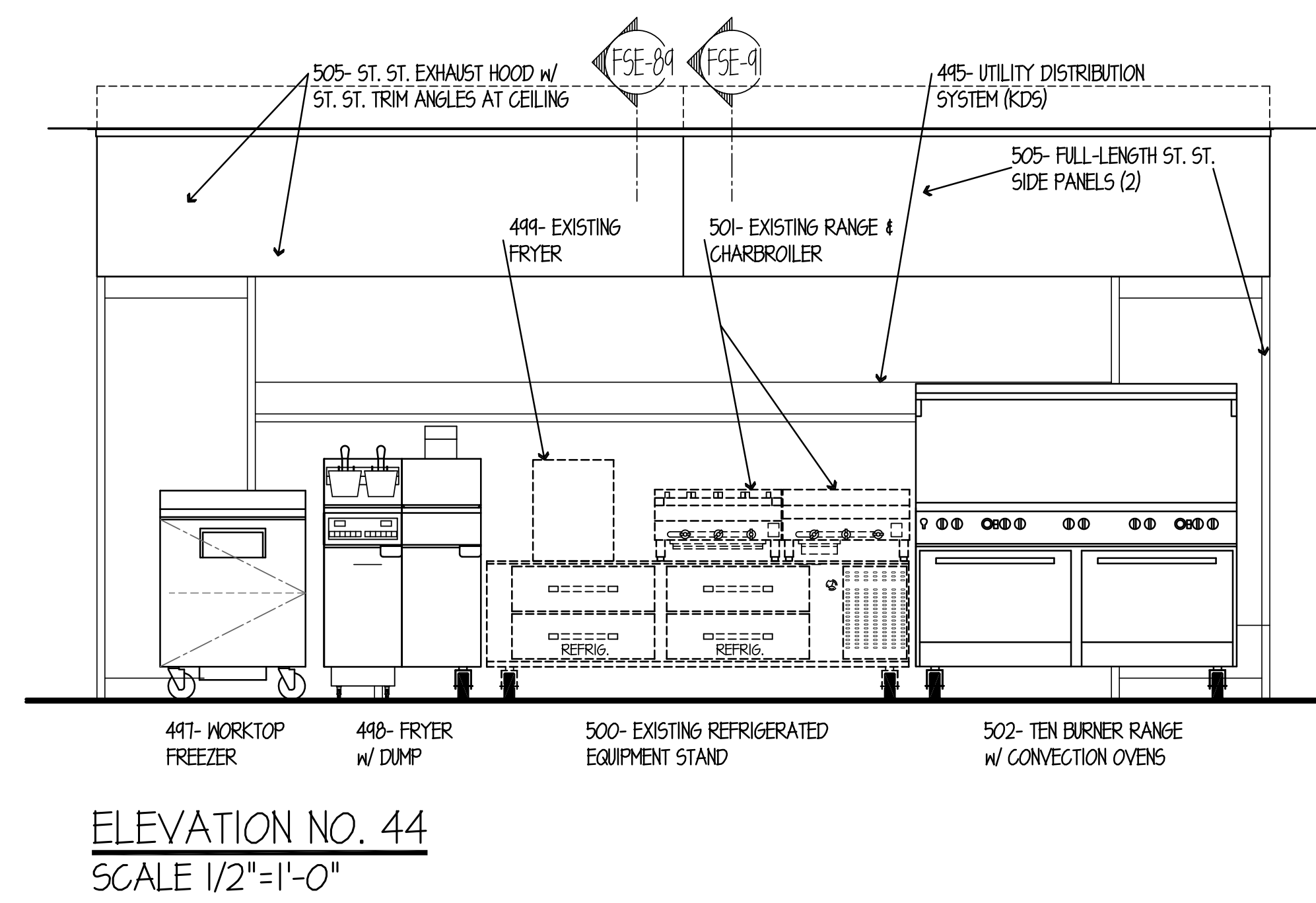
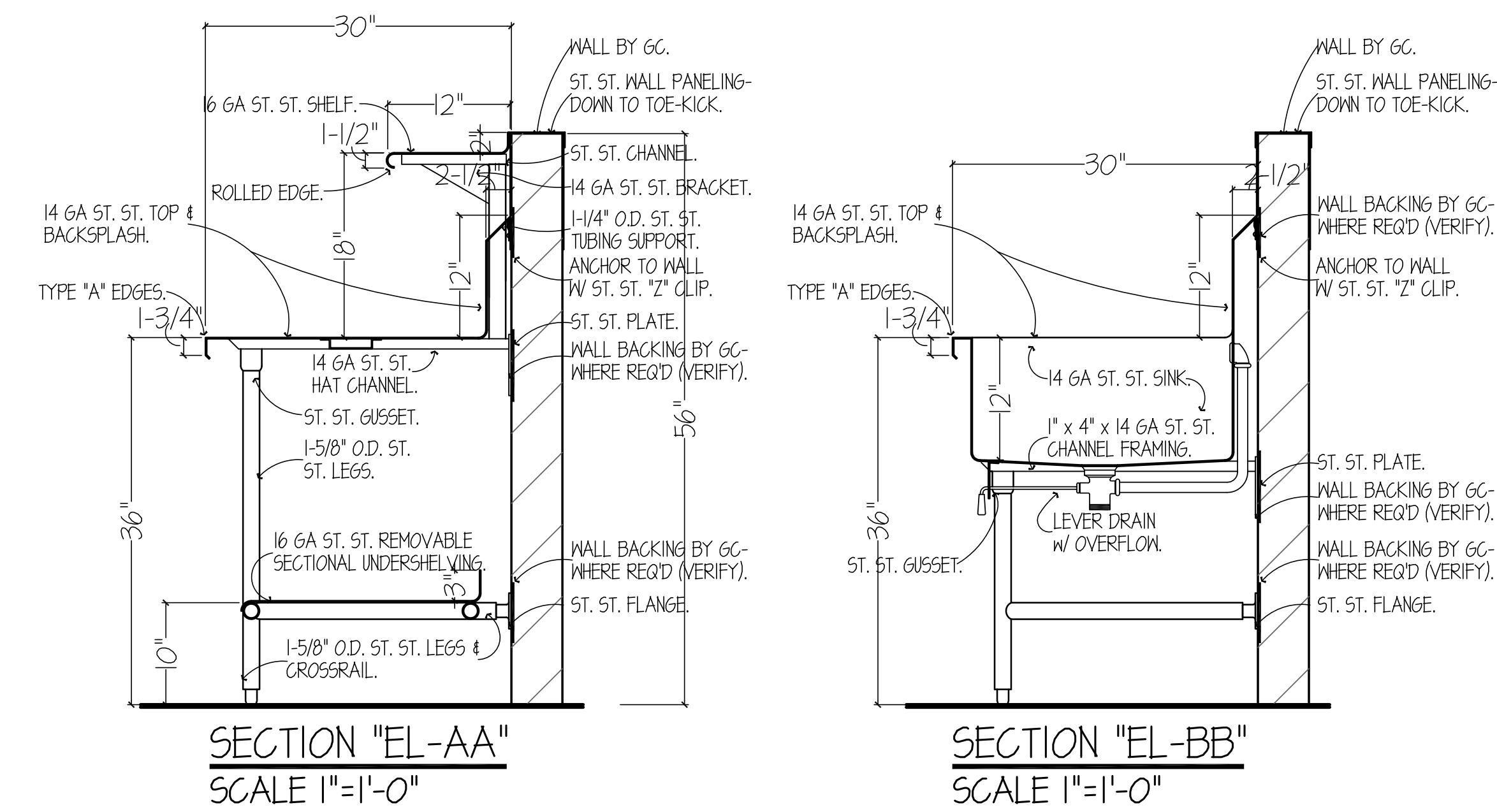
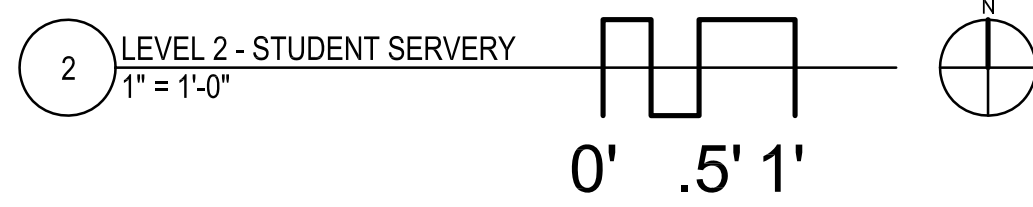
REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15
2		
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9		
10		

**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301 CHICAGO, IL 60661 P: 312.496.0000

**KJWW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W NAPERVILLE, IL 60563 T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET BIRMINGHAM, MI 48009 T: 248.644.0990

<b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELEVATION DETAILS</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-139</b>
		OF SHEETS



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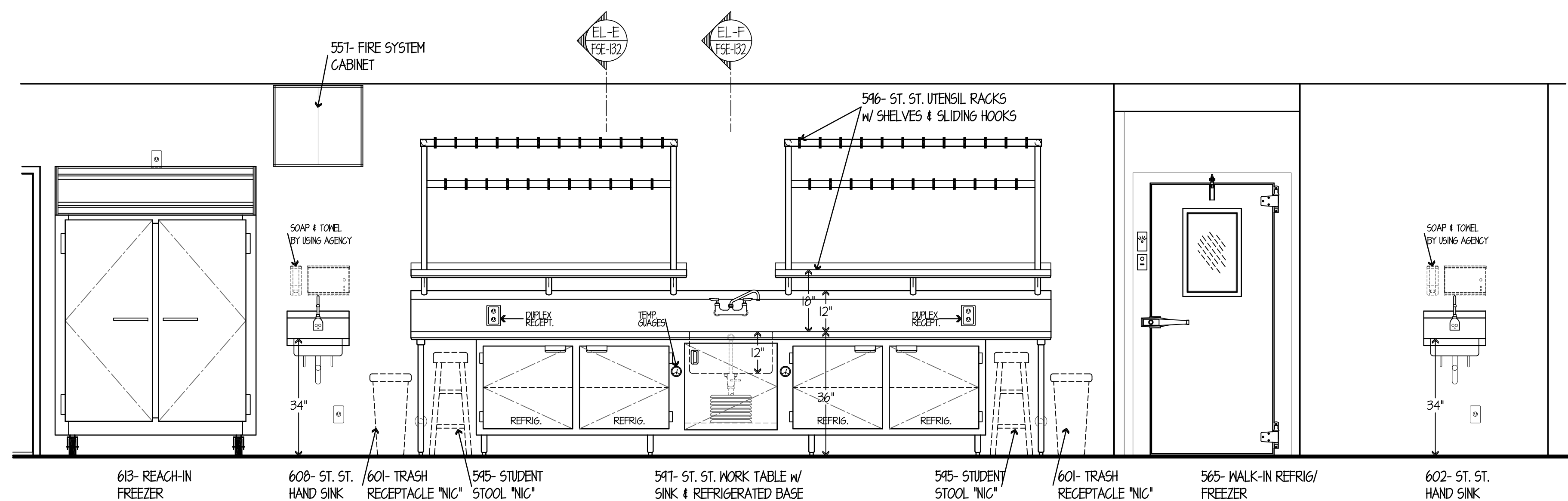
DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

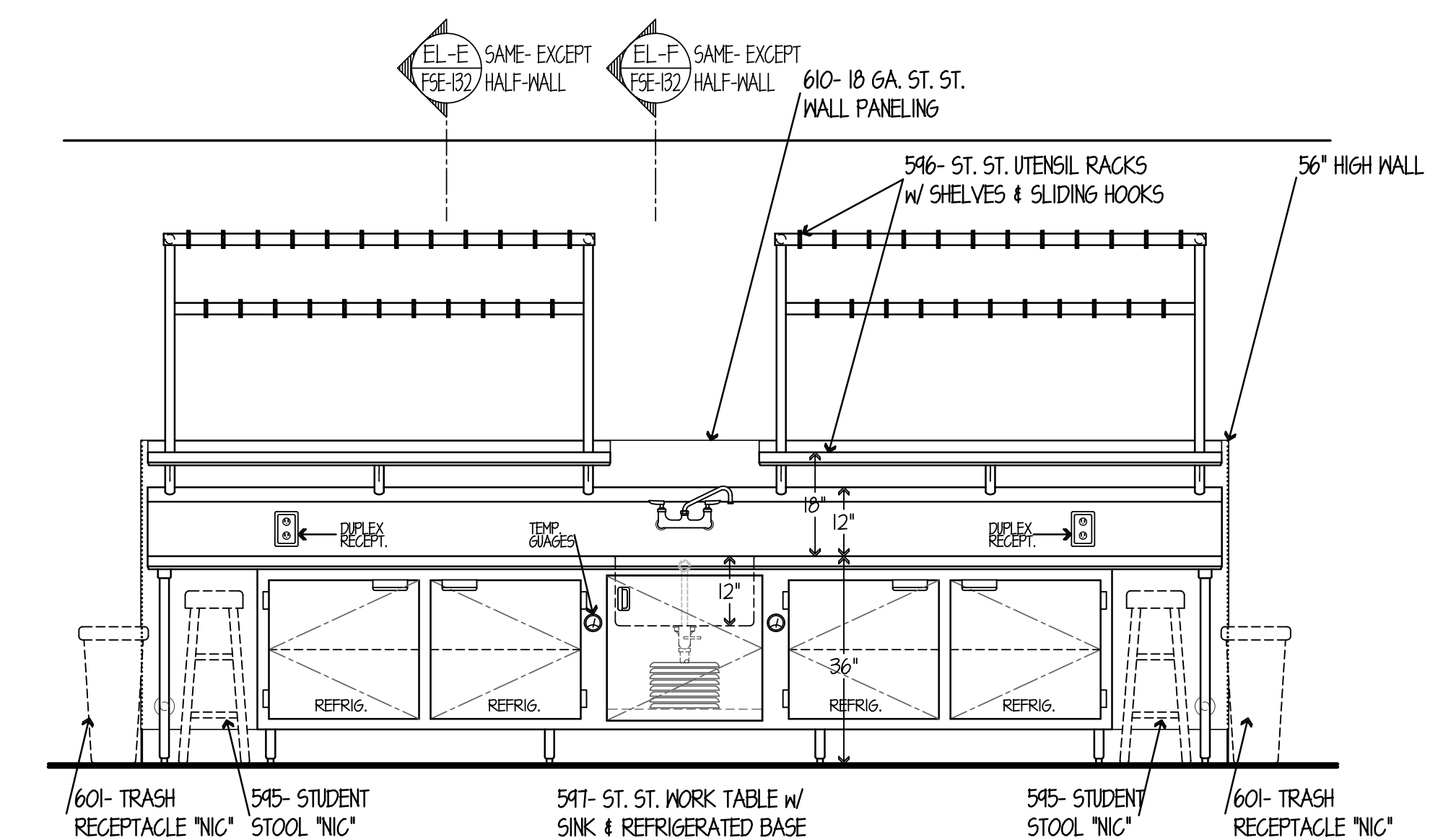
**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

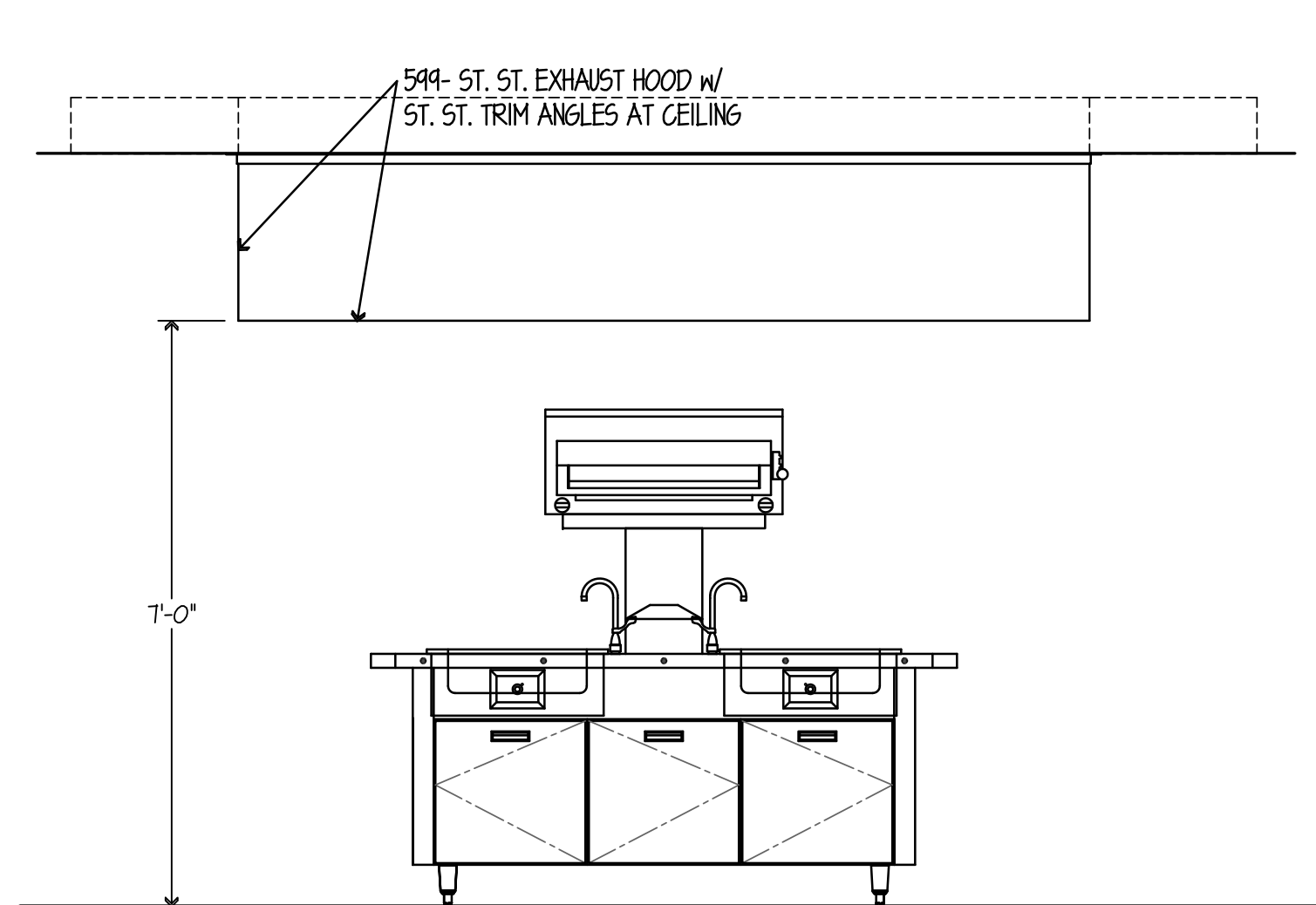
<b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELEVATION DETAILS</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-140</b>
		OF SHEETS



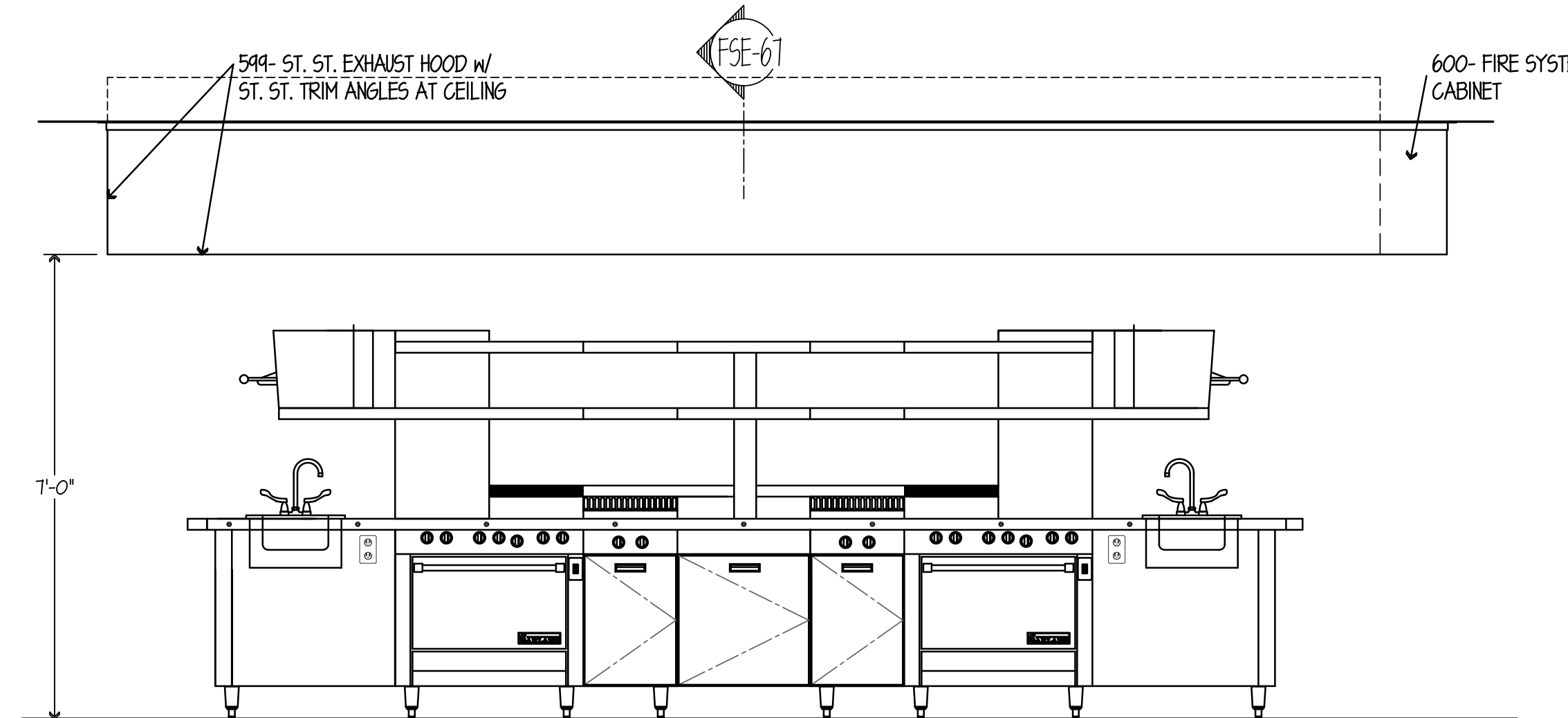
ELEVATION NO. 51  
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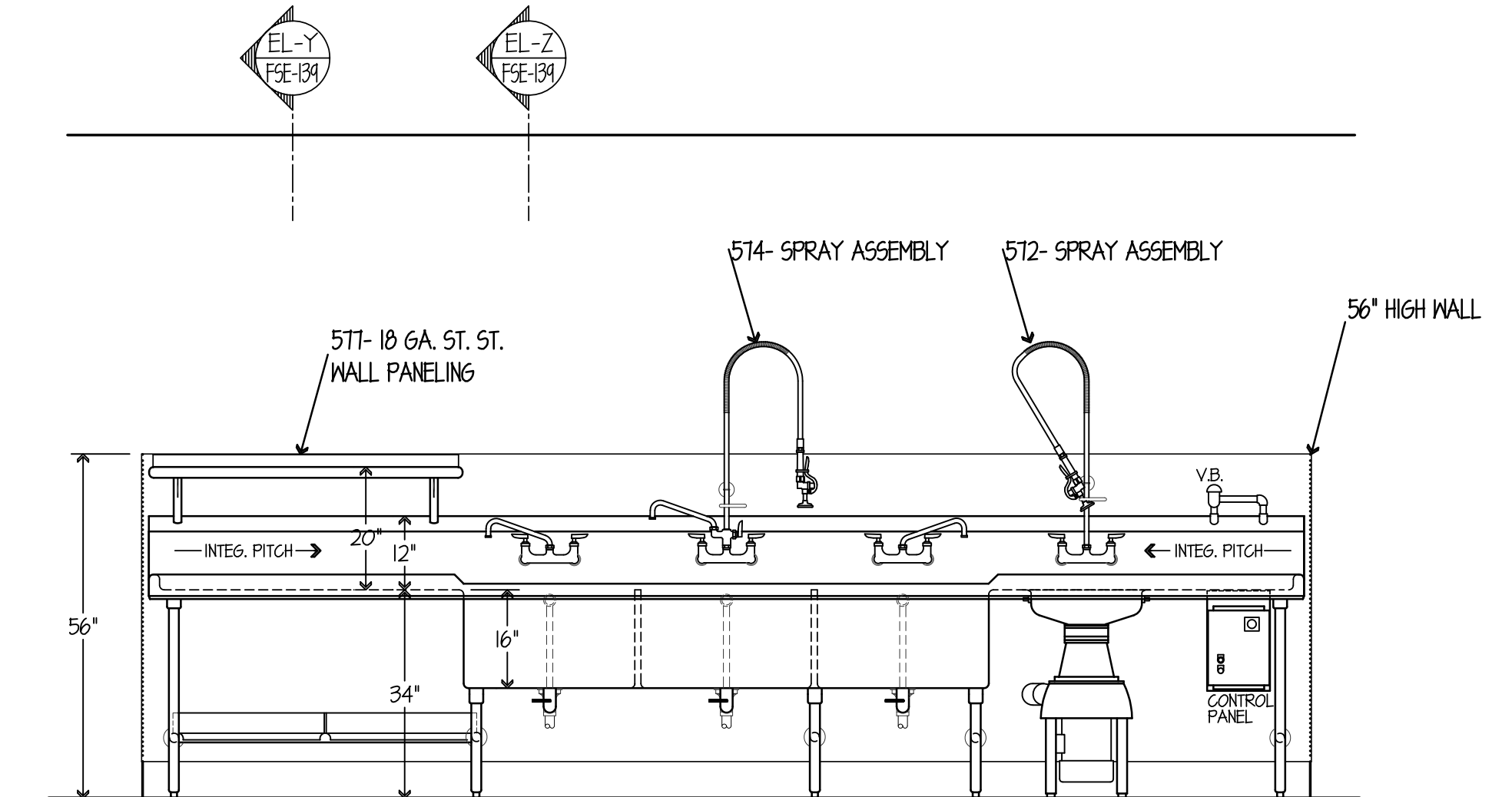
ELEVATION NO. 52  
SCALE 1/2"=1'-0"



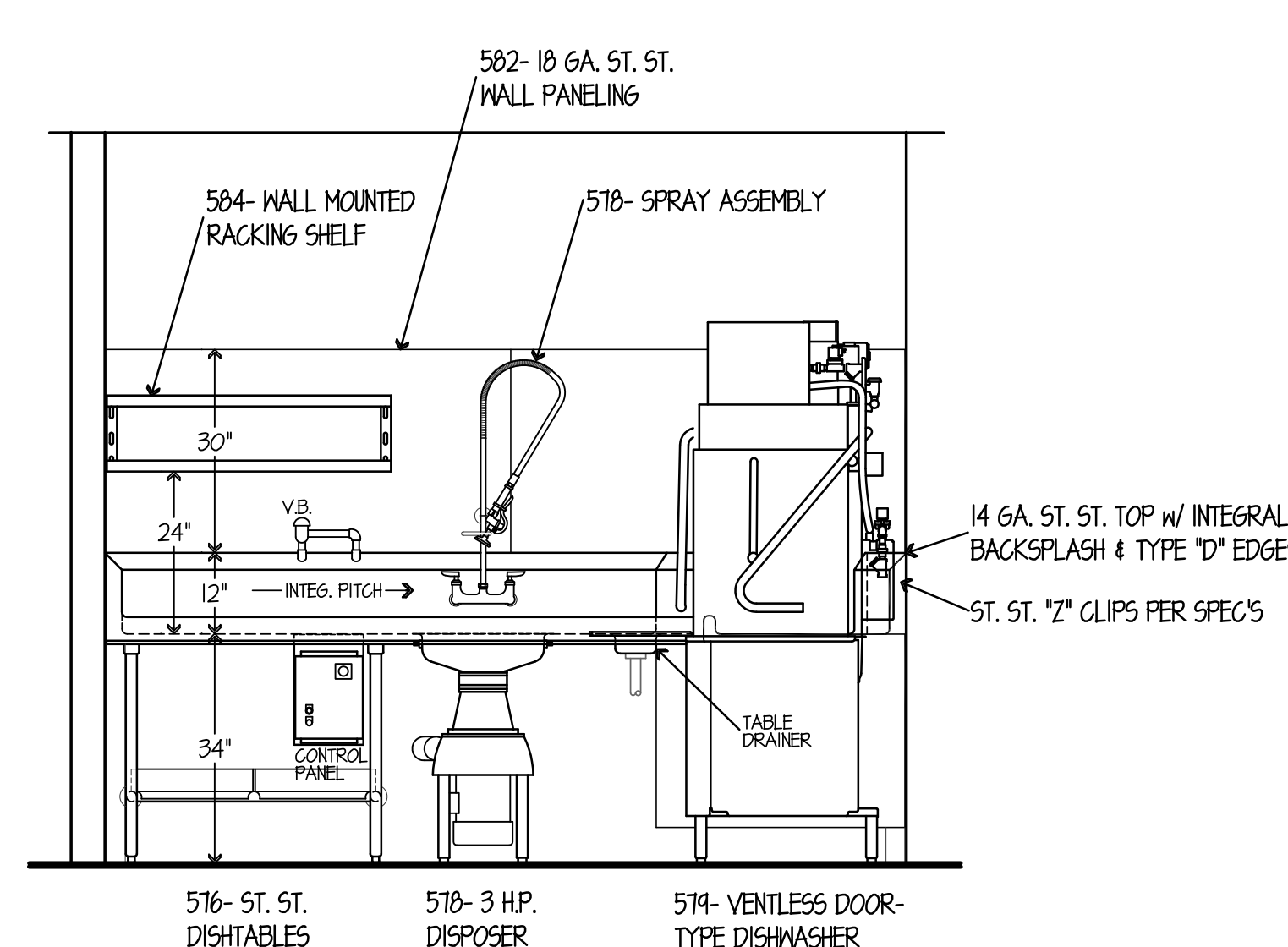
ELEVATION NO. 53  
SCALE 1/2"=1'-0"



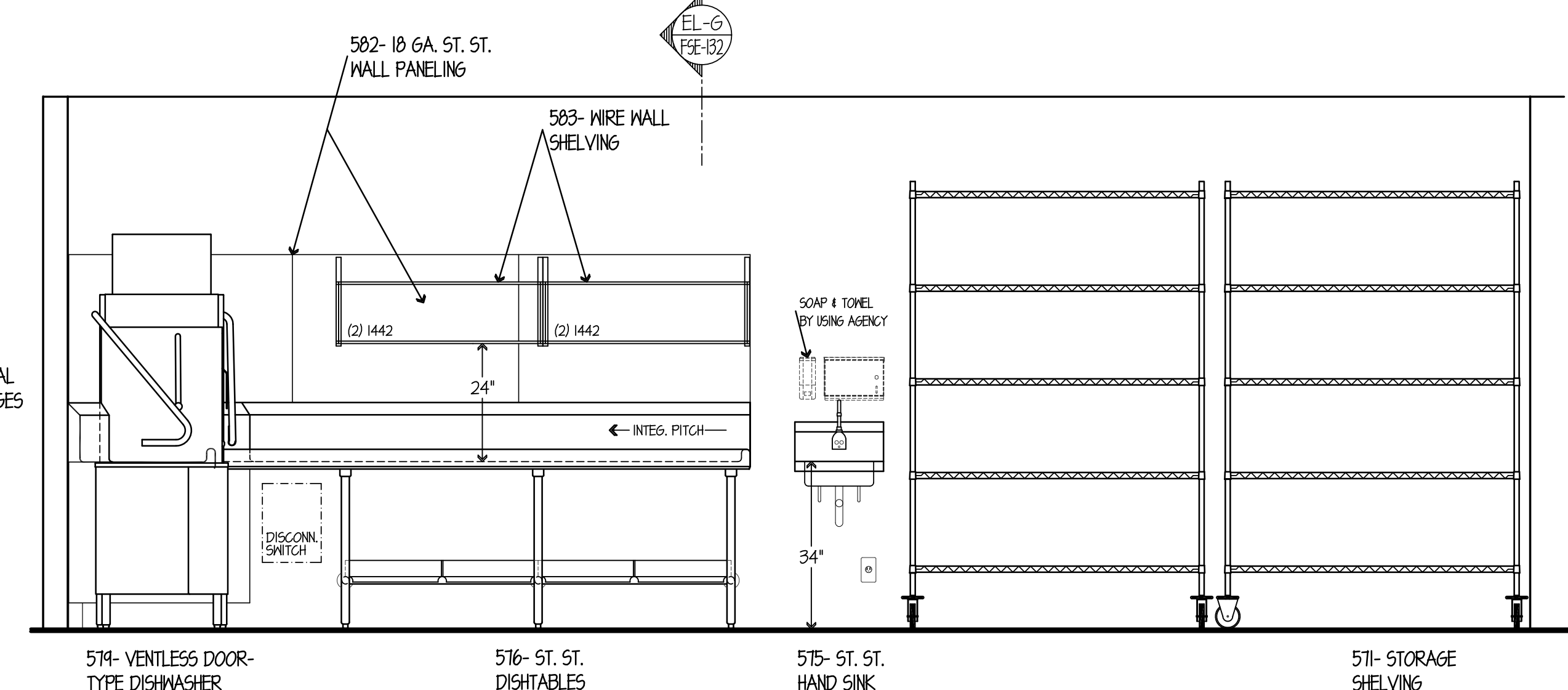
ELEVATION NO. 54  
SCALE 1/2"=1'-0"



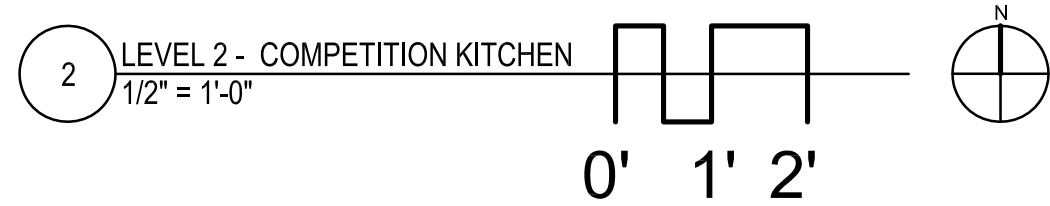
ELEVATION NO. 55  
SCALE 1/2"=1'-0"



ELEVATION NO. 56  
SCALE 1/2"=1'-0"



ELEVATION NO. 57  
SCALE 1/2"=1'-0"



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED	
GYB	XXX	
TRACED	APPROVED	
XXX	XXX	
CHECKED	APPROVED	
XXX	EFW	

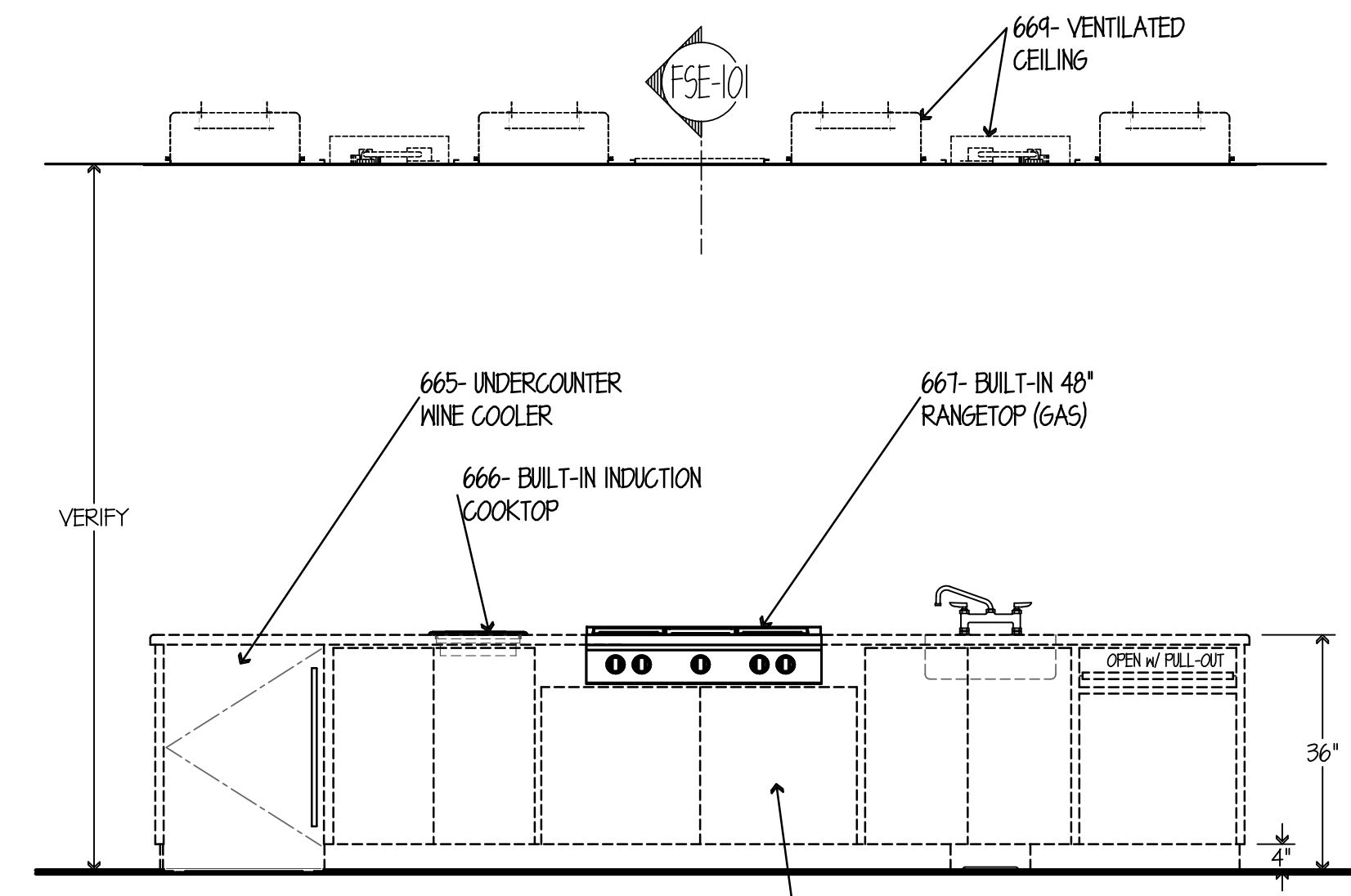
**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

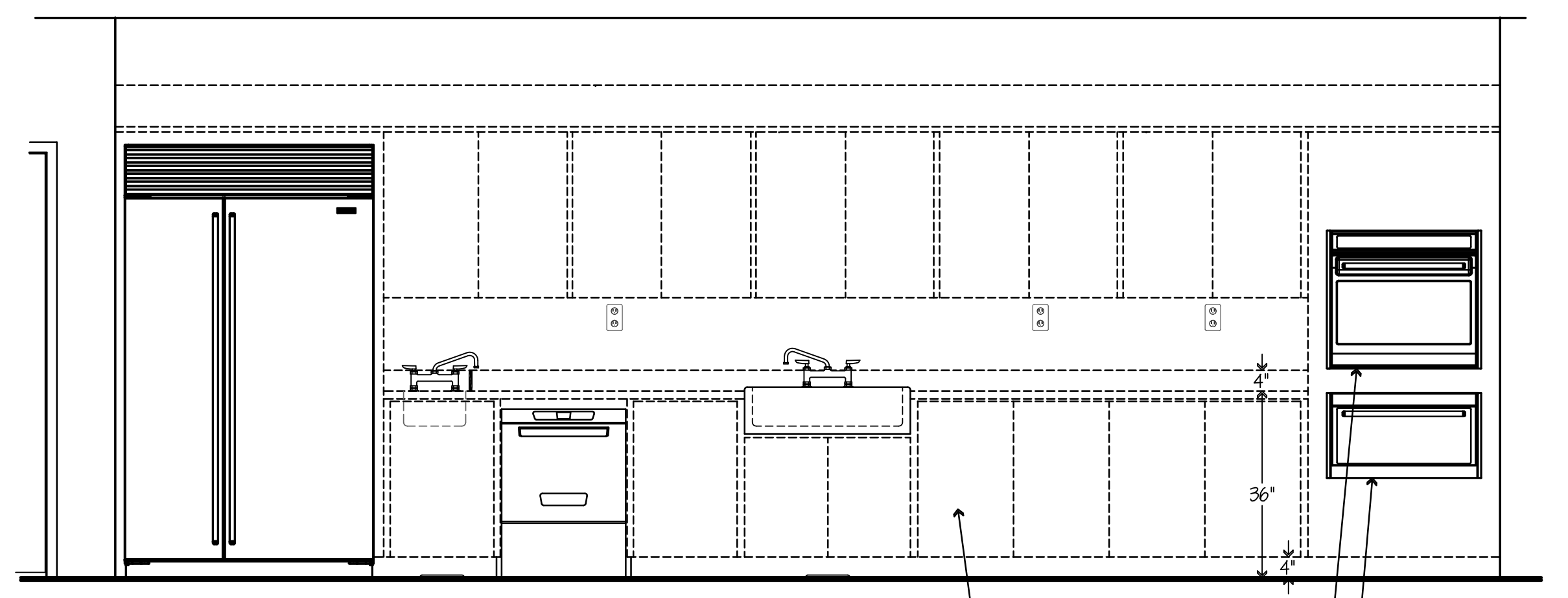
**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELEVATION DETAILS</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-141</b> OF SHEETS

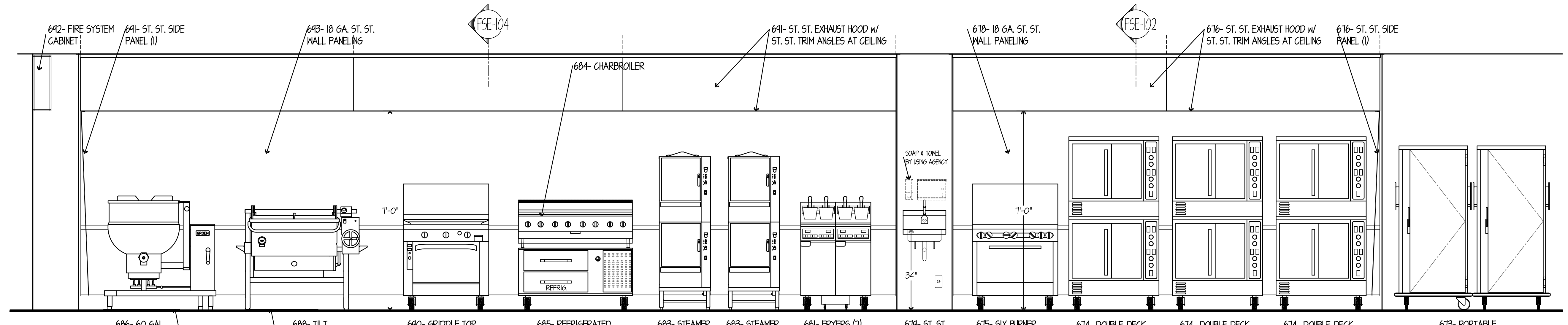




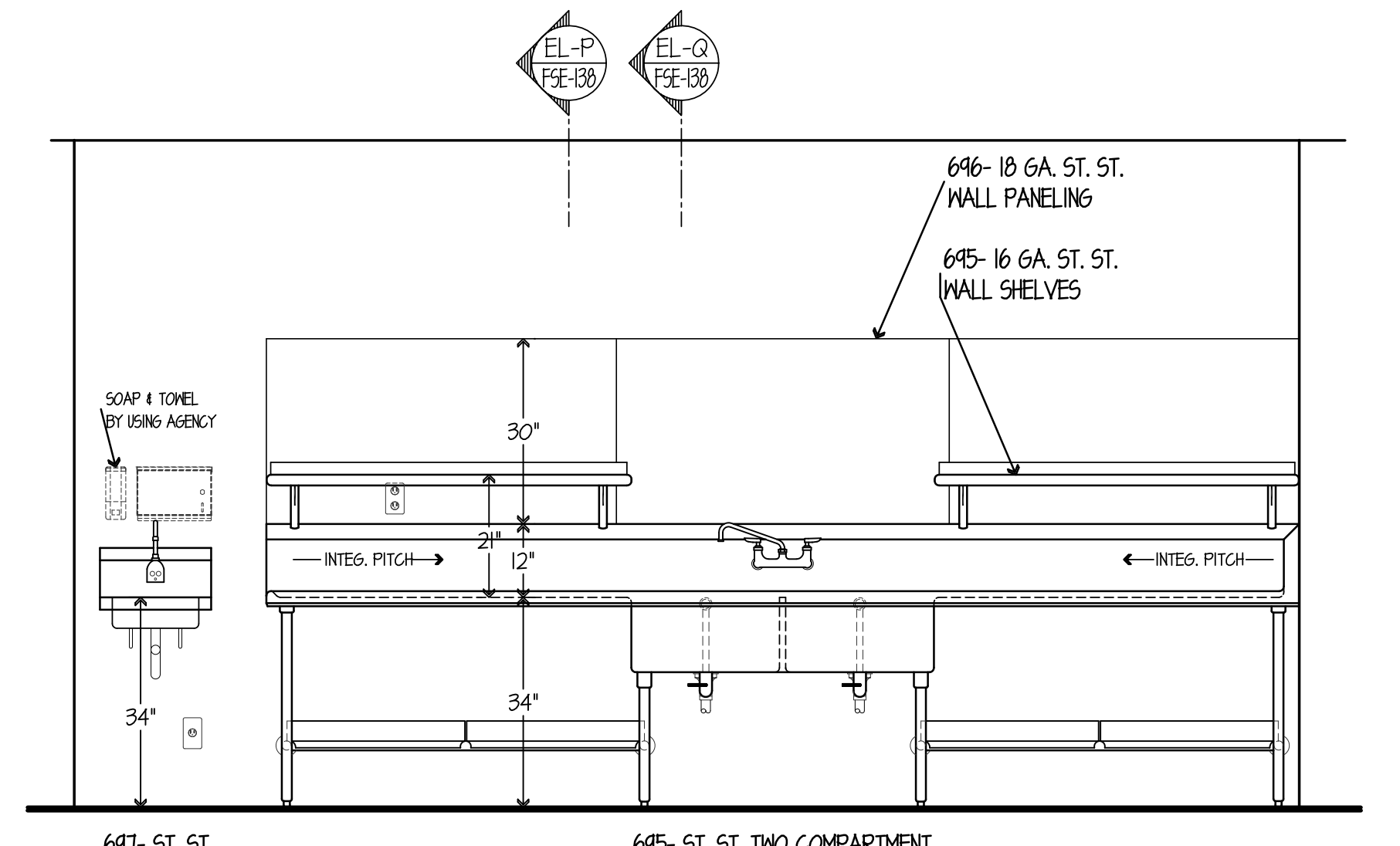
ELEVATION NO. 58  
SCALE 1/2"=1'-0"



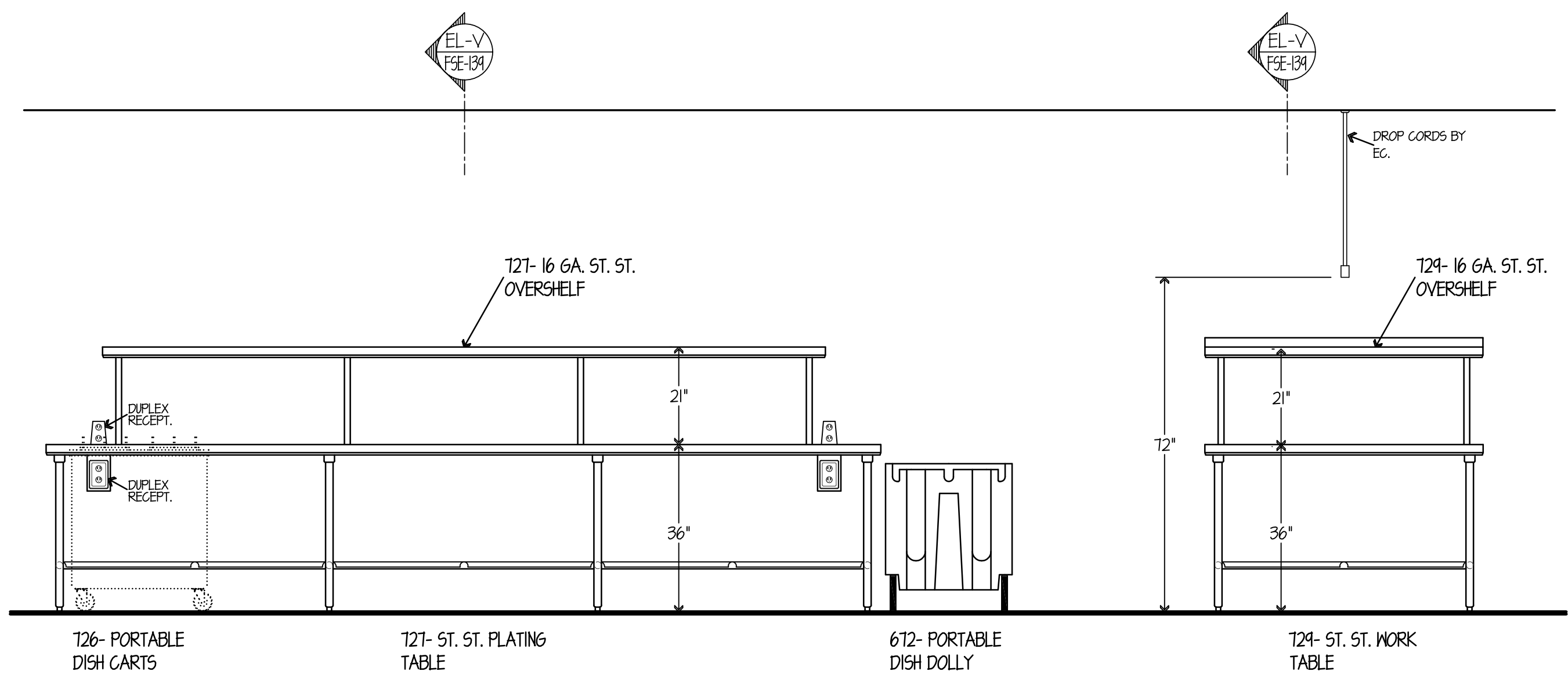
ELEVATION NO. 59  
SCALE 1/2"=1'-0"



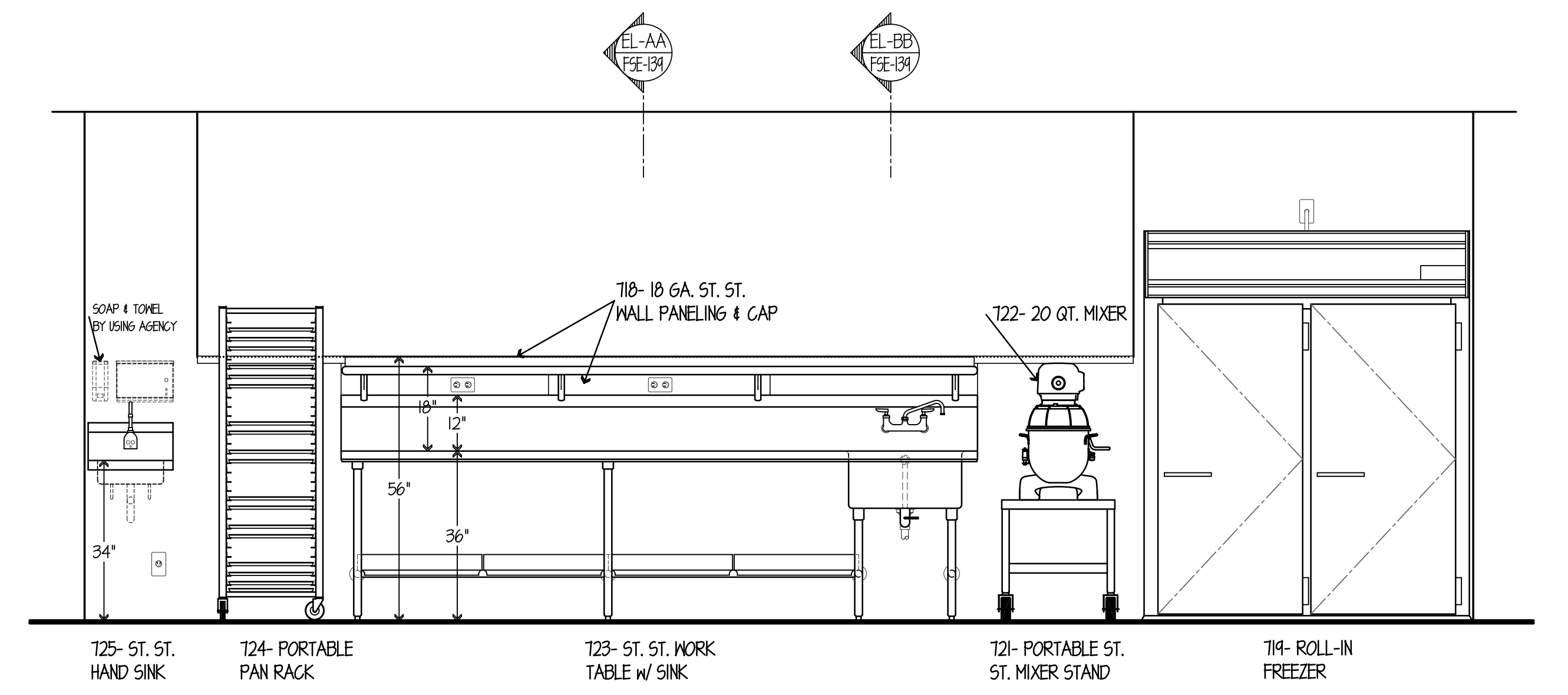
ELEVATION NO. 60  
SCALE 1/2"=1'-0"



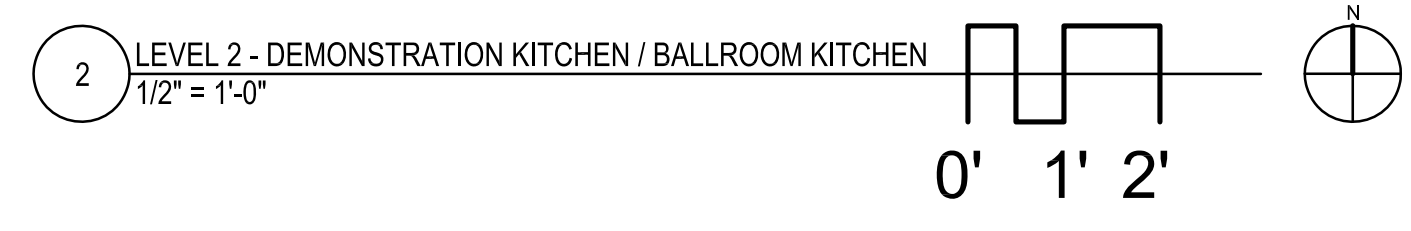
ELEVATION NO. 61  
SCALE 1/2"=1'-0"



ELEVATION NO. 62  
SCALE 1/2"=1'-0"



ELEVATION NO. 63  
SCALE 1/2"=1'-0"



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED
GYB	XXX
TRACED	APPROVED
XXX	XXX
CHECKED	APPROVED
XXX	EFW

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJWW** K.J.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

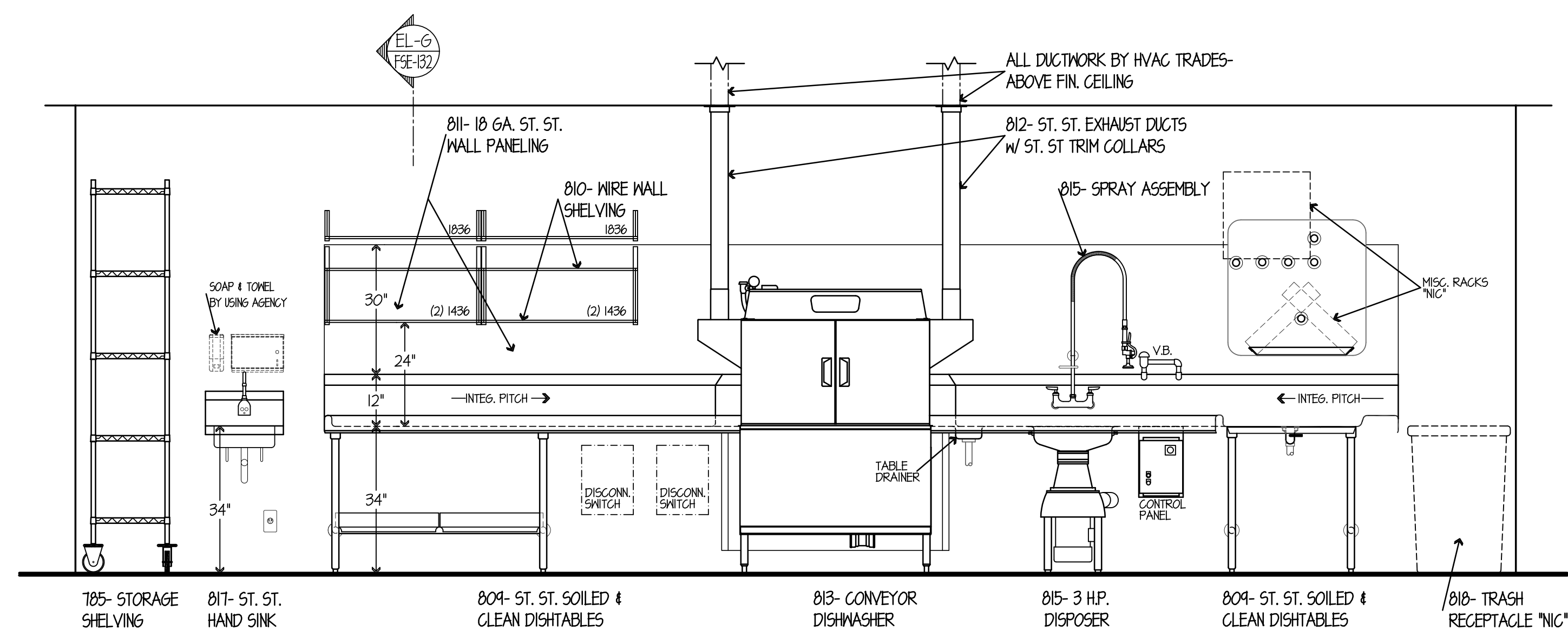
**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

ISSUED FOR CONSTRUCTION		PROJECT NO.
FOOD SERVICE EQUIPMENT - ELEVATION DETAILS		CDB 810-048-023
CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE		DATE
		DEC. 12, 2014
		SHEET NO.
		FSE-142
		OF SHEETS

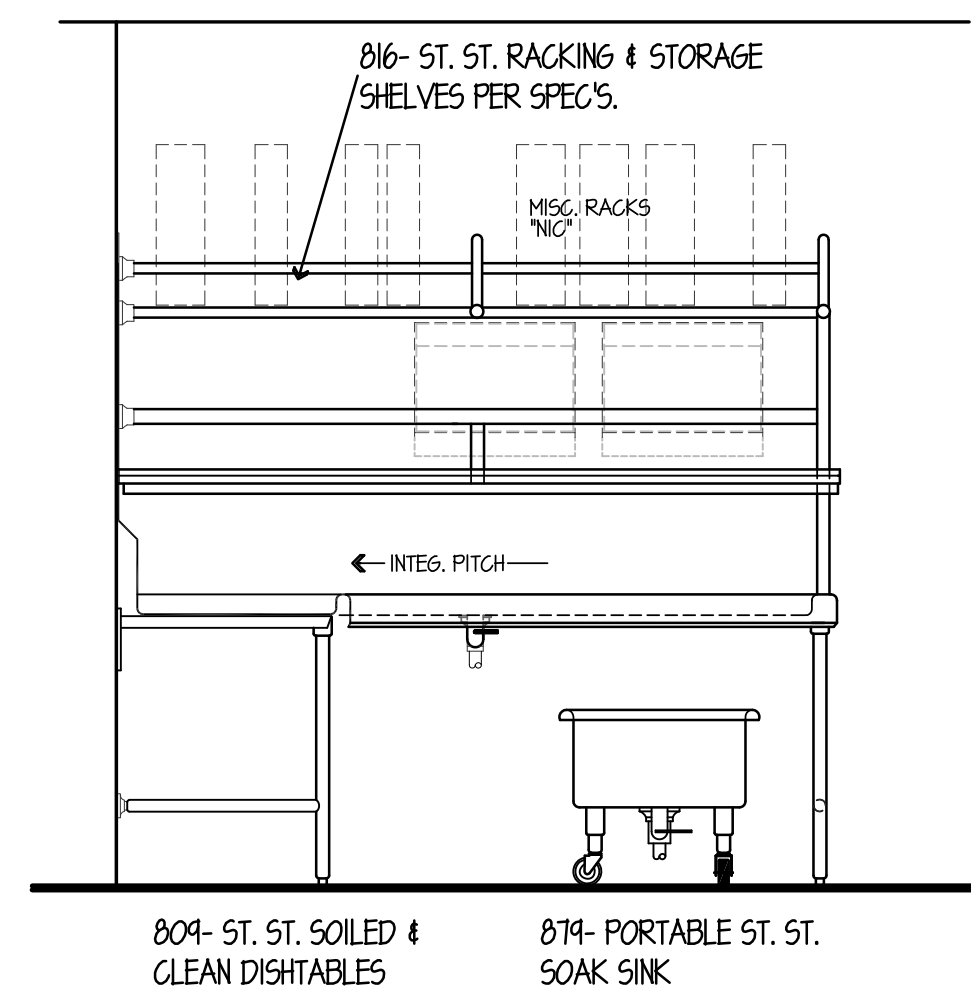




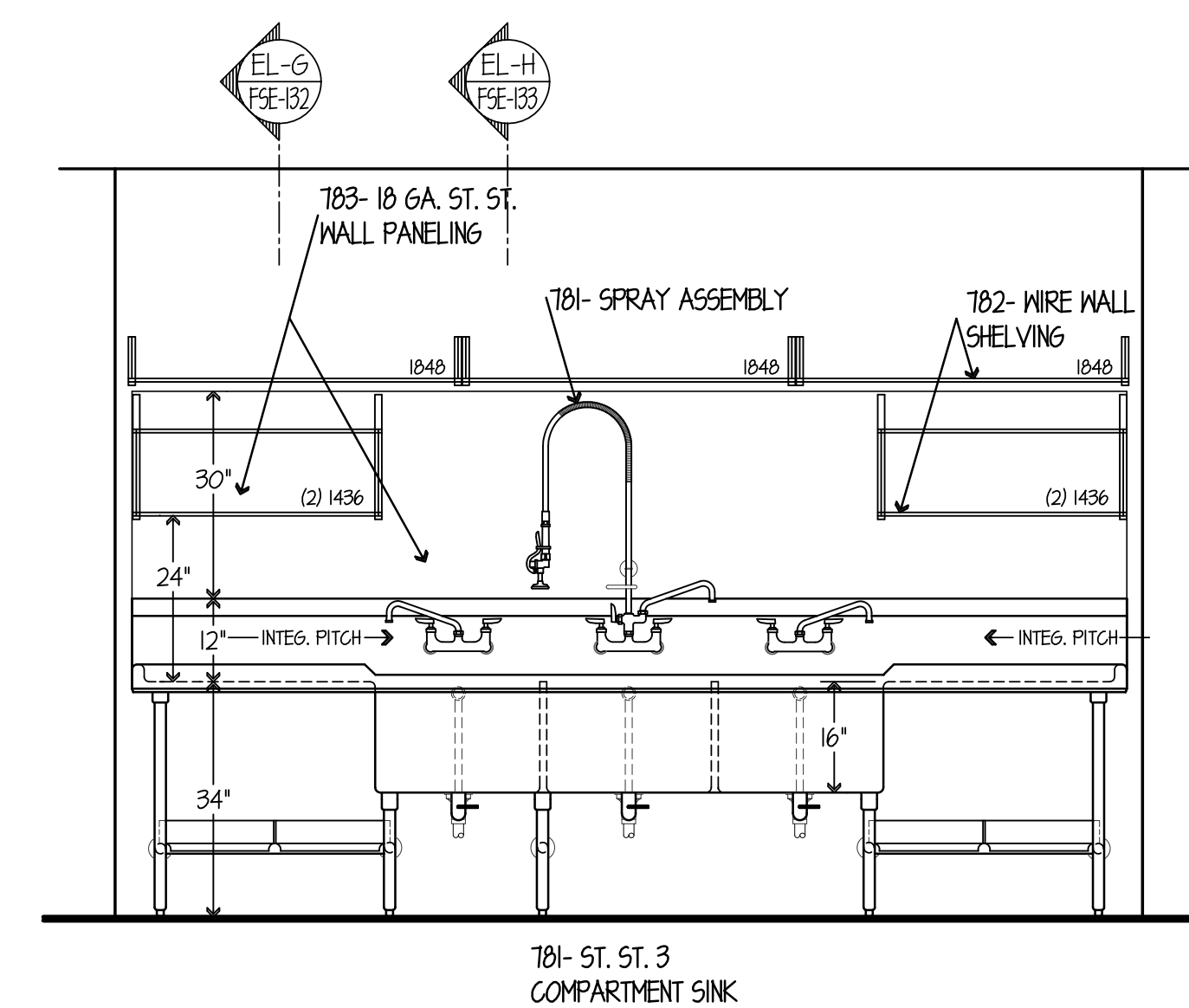




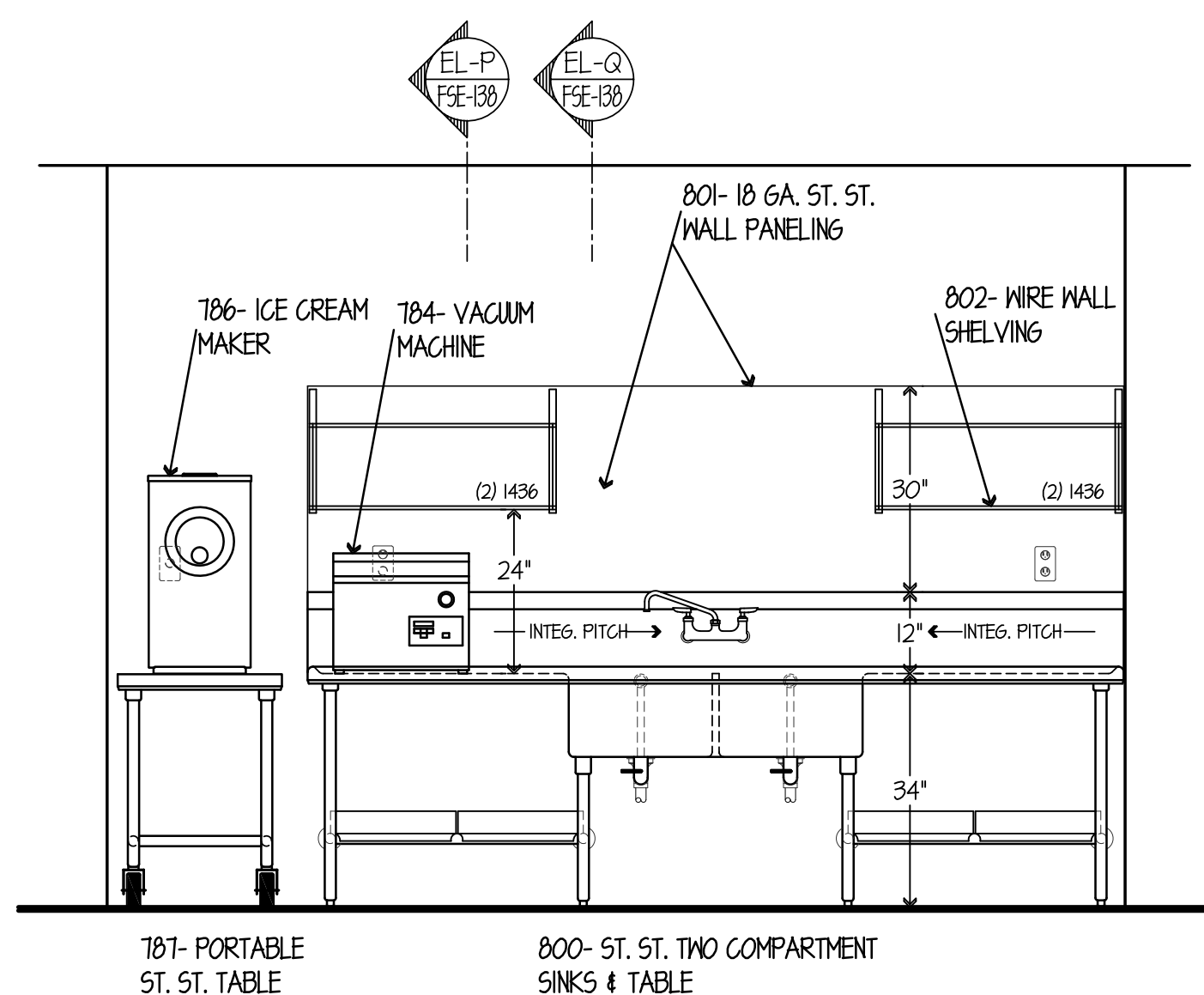
ELEVATION NO. 75  
SCALE 1/2"=1'-0"



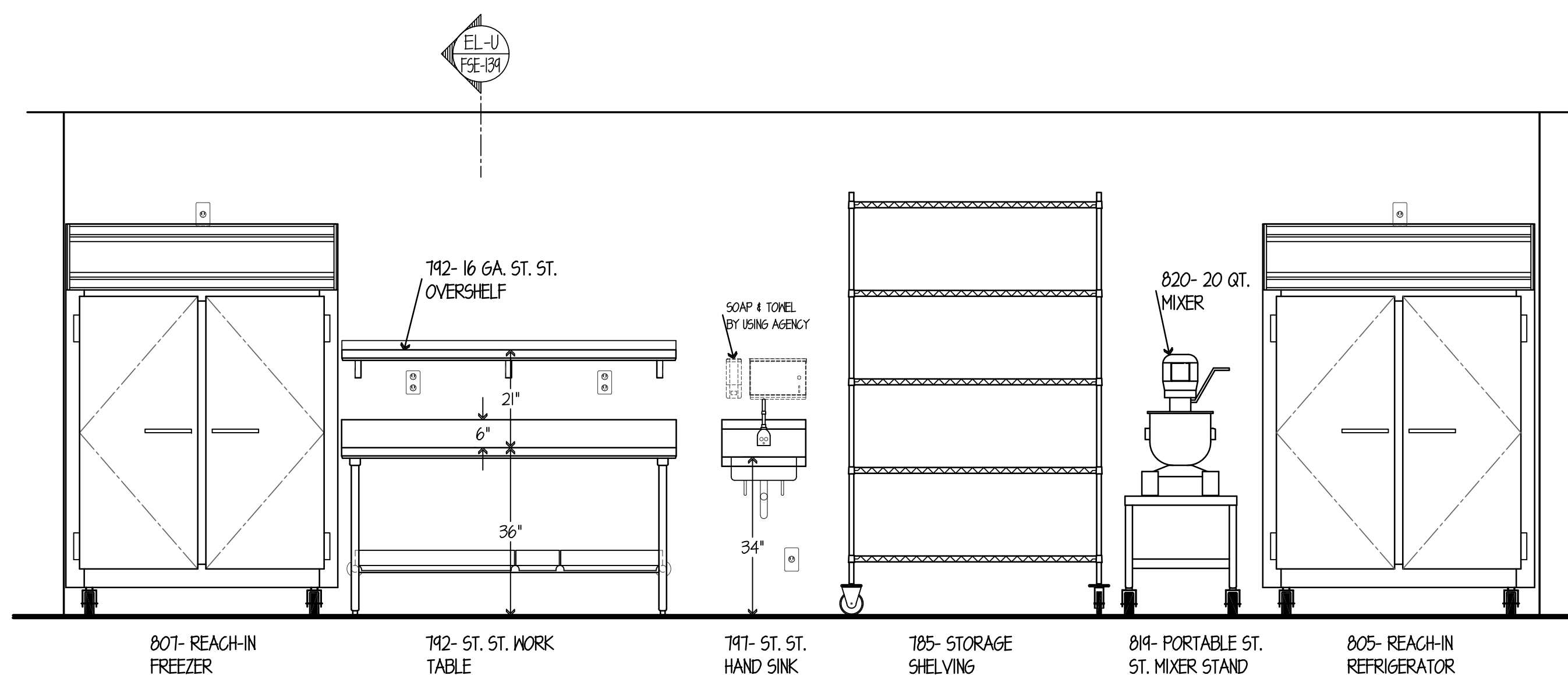
ELEVATION NO. 76  
SCALE 1/2"=1'-0"



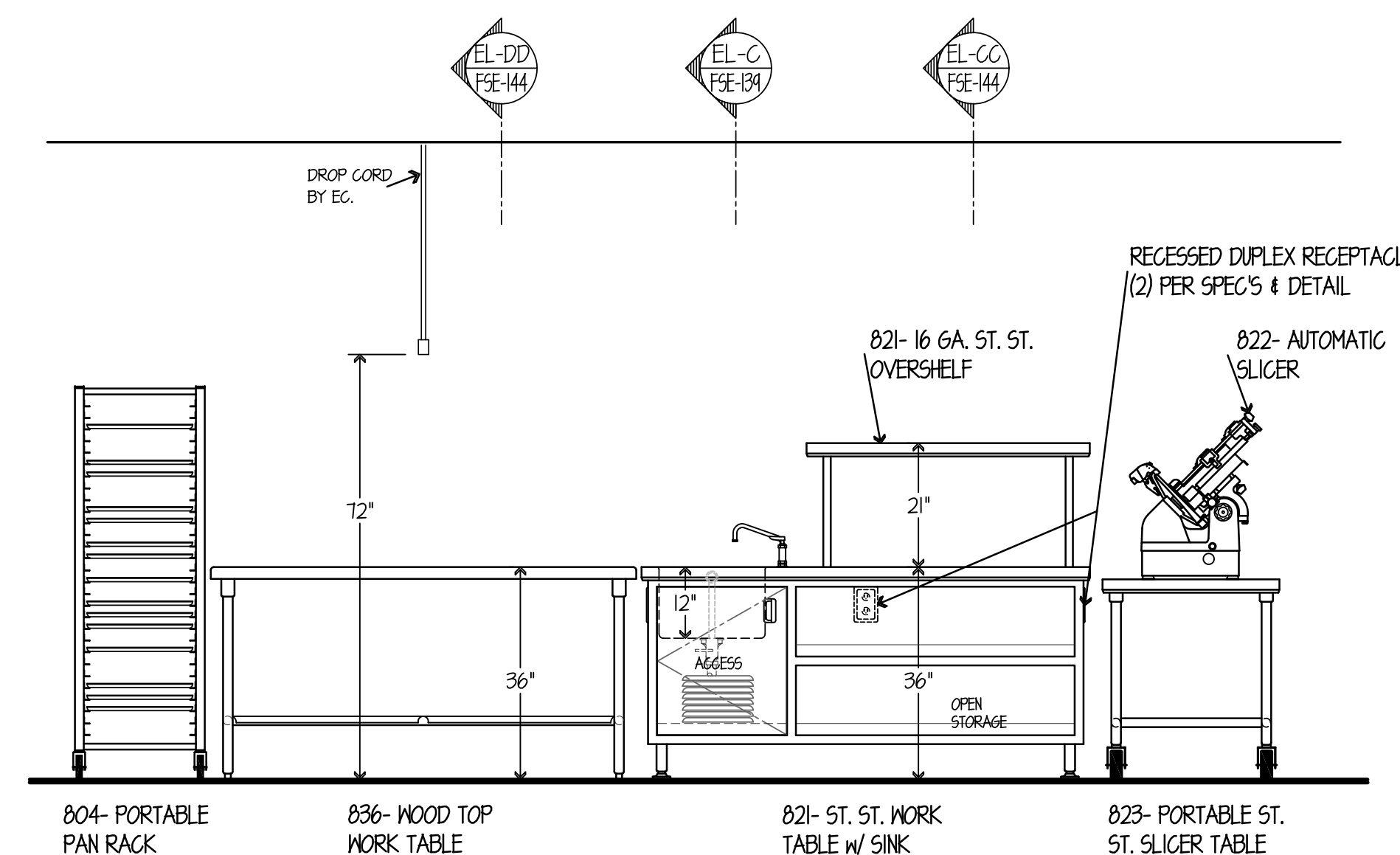
ELEVATION NO. 77  
SCALE 1/2"=1'-0"



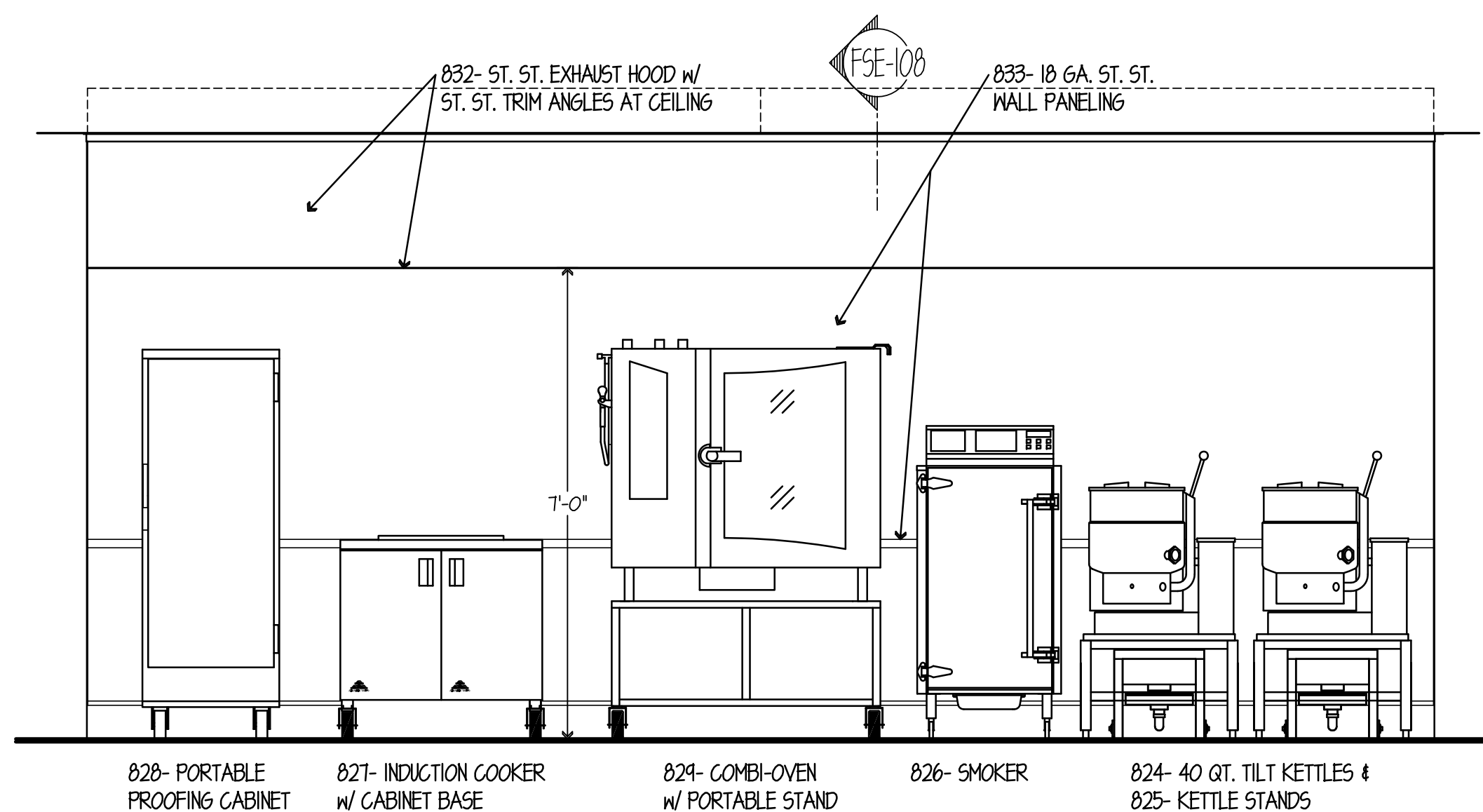
ELEVATION NO. 78  
SCALE 1/2"=1'-0"



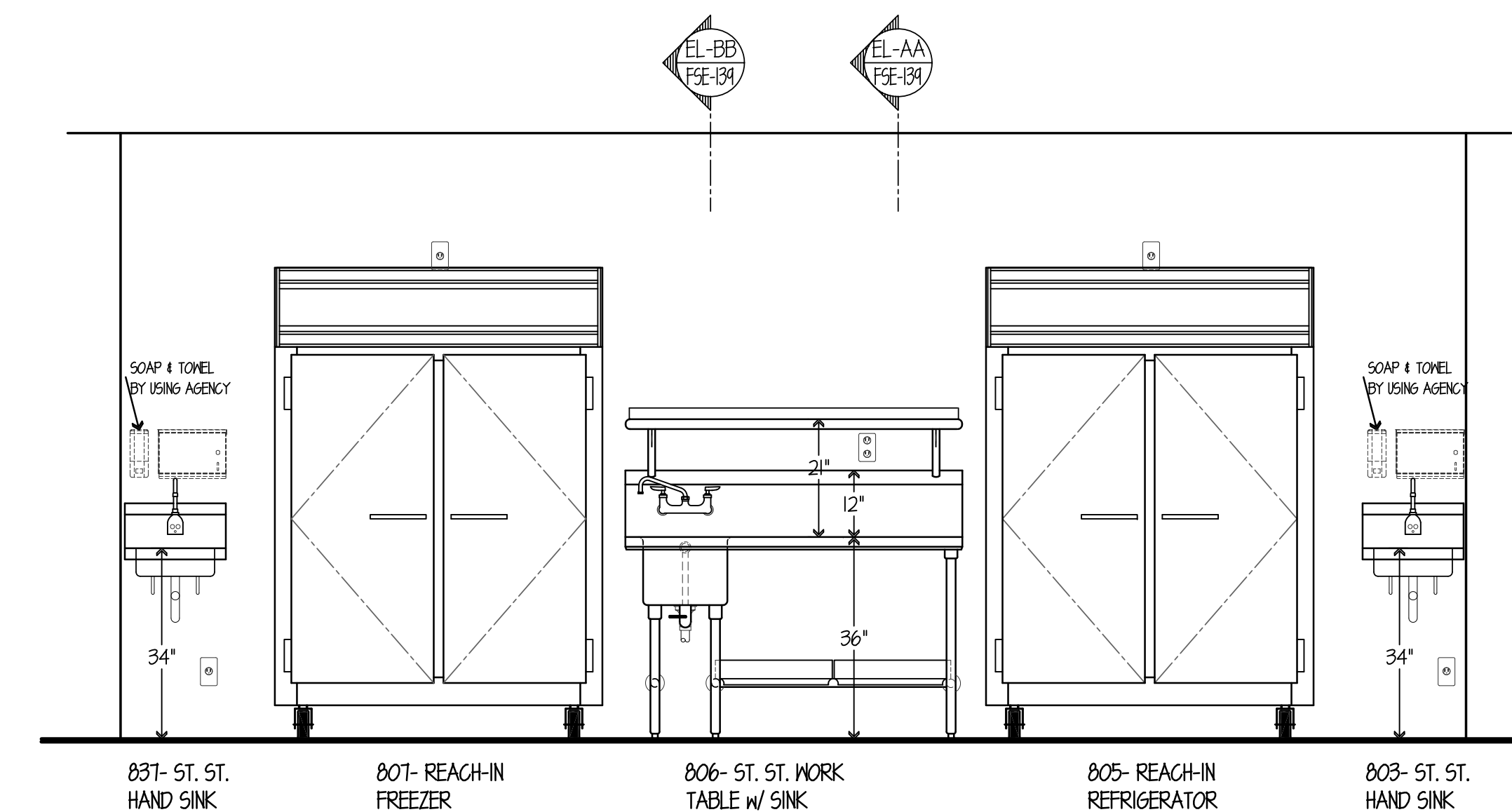
ELEVATION NO. 79  
SCALE 1/2"=1'-0"



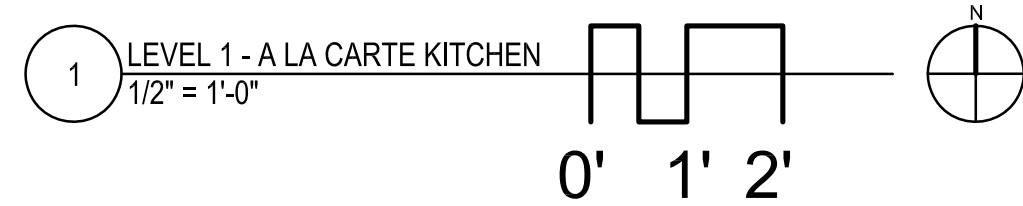
ELEVATION NO. 80  
SCALE 1/2"=1'-0"



ELEVATION NO. 81  
SCALE 1/2"=1'-0"



ELEVATION NO. 82  
SCALE 1/2"=1'-0"



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN <b>GYB</b>	PREPARED <b>XXX</b>
TRACED <b>XXX</b>	APPROVED <b>XXX</b>
CHECKED <b>XXX</b>	APPROVED <b>EFW</b>

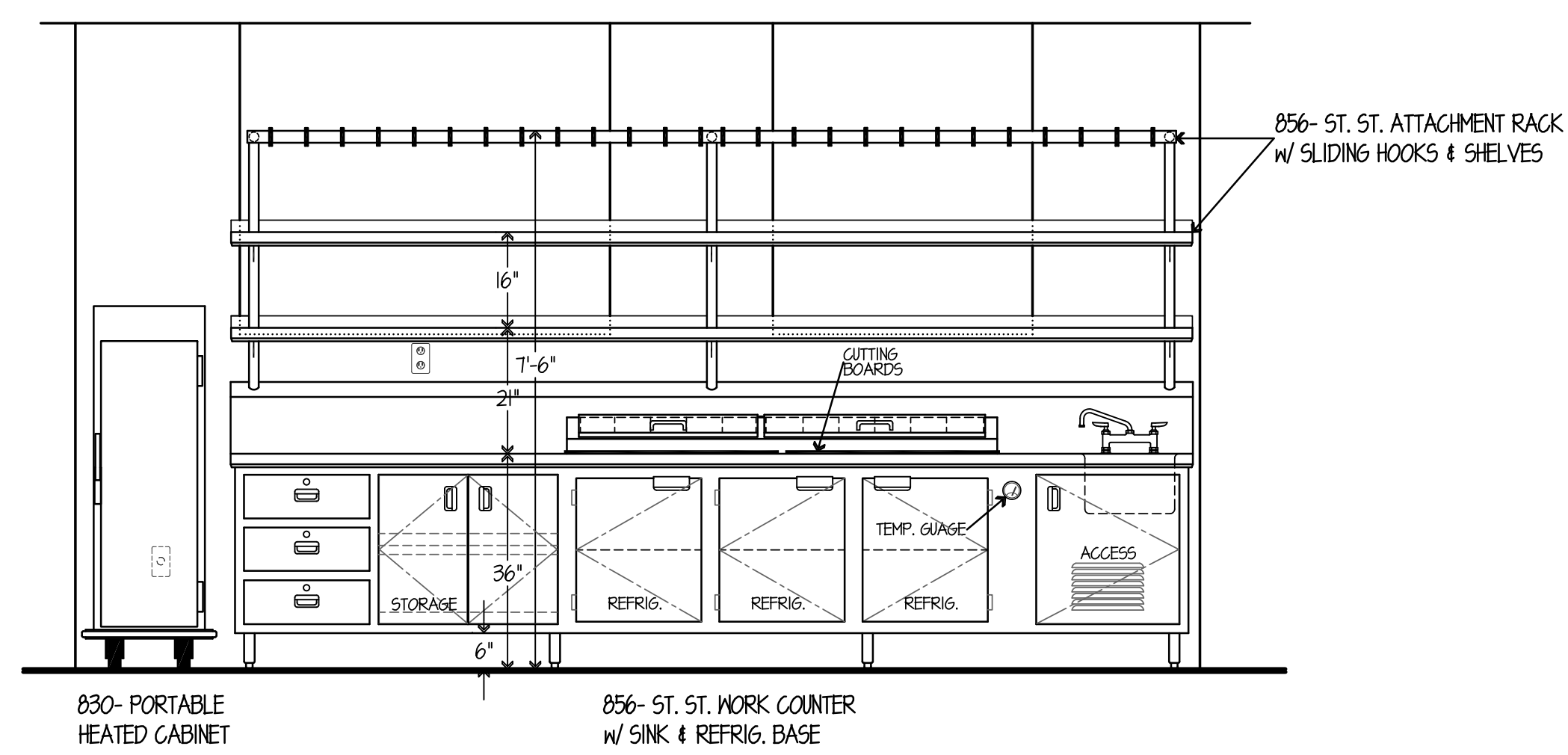
**dkA** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**KJW** KJWW ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

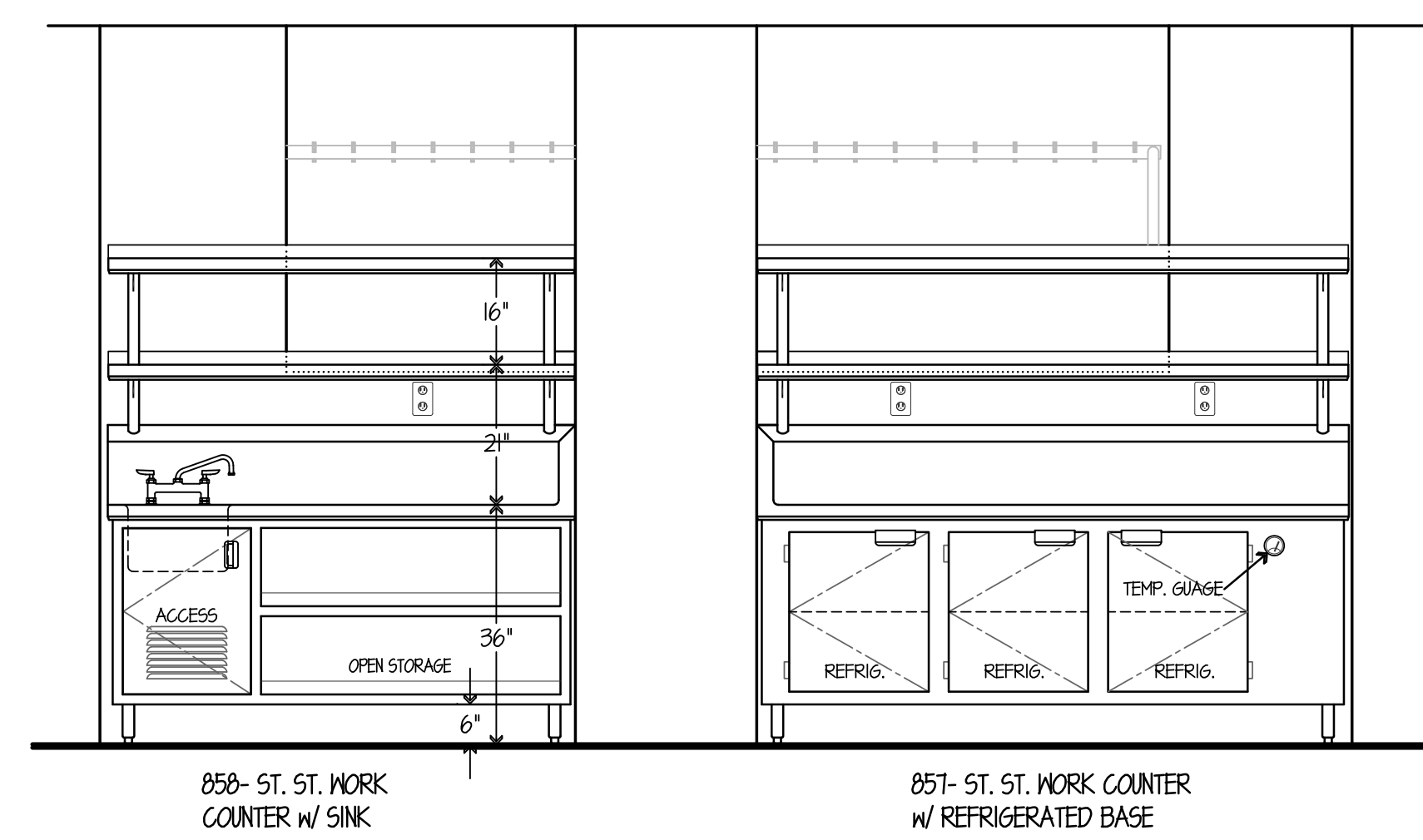
**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELEVATION DETAILS</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-145</b>
		OF SHEETS

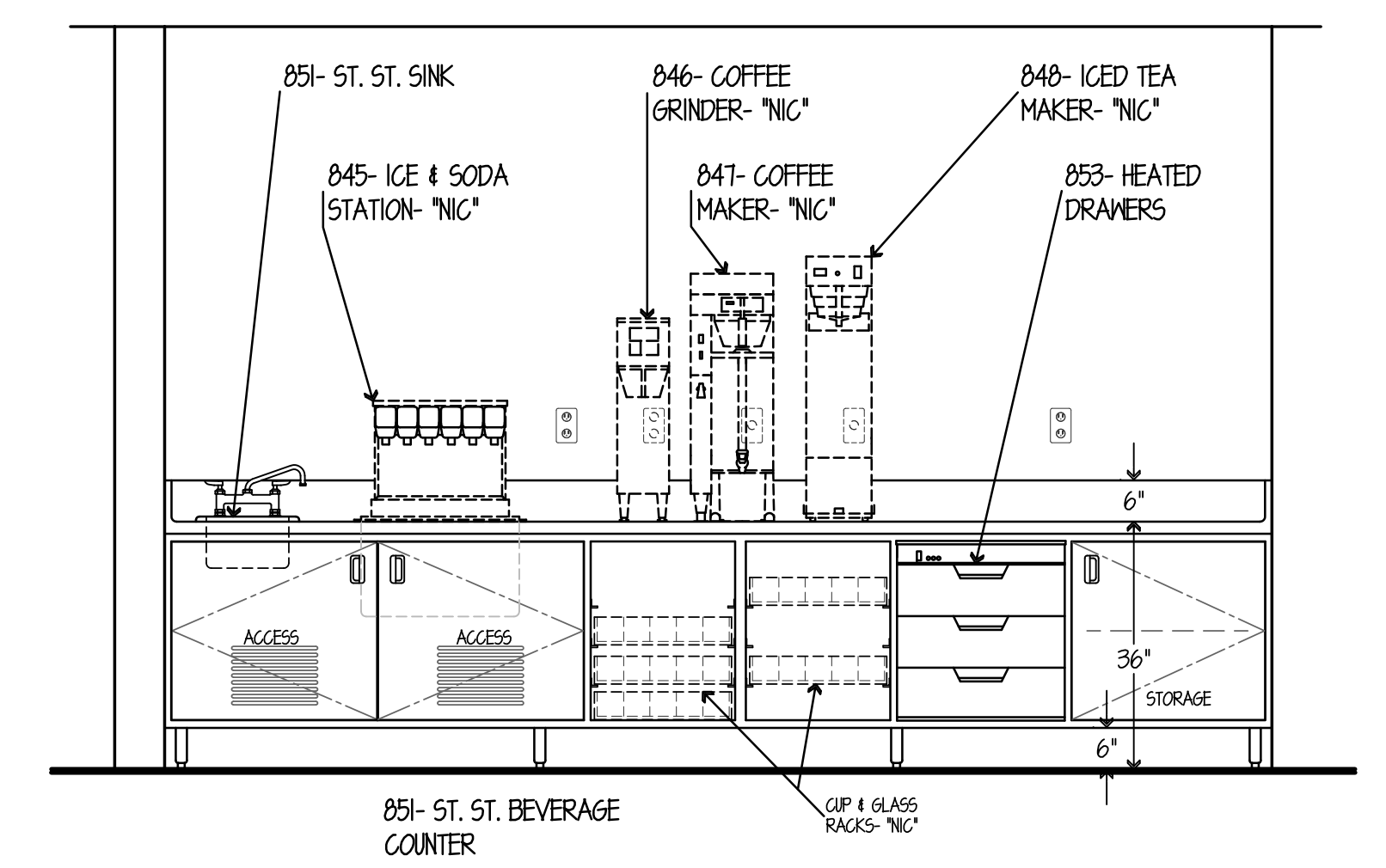




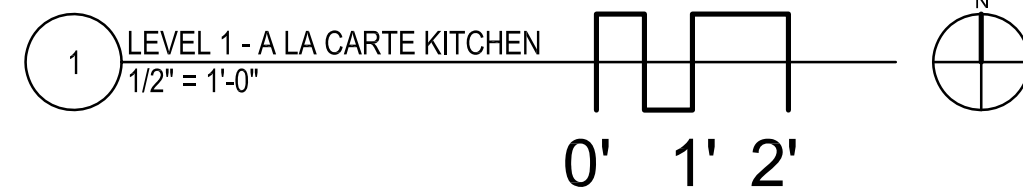
ELEVATION NO. 90  
SCALE 1/2"=1'-0"



ELEVATION NO. 91  
SCALE 1/2"=1'-0"



ELEVATION NO. 92  
SCALE 1/2"=1'-0"



NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Issued for Construction	07/31/15

DRAWN	PREPARED
GYB	XXX
TRACED	OFF.
XXX	XXX
CHECKED	APPROVED
XXX	EFW

**dk** DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

**K J W W** K.J.W.W. ENGINEERING  
1100 WARRENVILLE ROAD, #400W  
NAPERVILLE, IL 60563  
T: 630.527.2320

**EFW** E.F. WHITNEY, INC.  
568 ANN STREET  
BIRMINGHAM, MI 48009  
T: 248.644.0990

<b>ISSUED FOR CONSTRUCTION</b>		PROJECT NO. CDB 810-048-023
<b>FOOD SERVICE EQUIPMENT - ELEVATION DETAILS</b>		DATE DEC. 12, 2014
<b>CITY CENTER CAMPUS JOLIET JUNIOR COLLEGE</b>		SHEET NO. <b>FSE-147</b>
		OF SHEETS