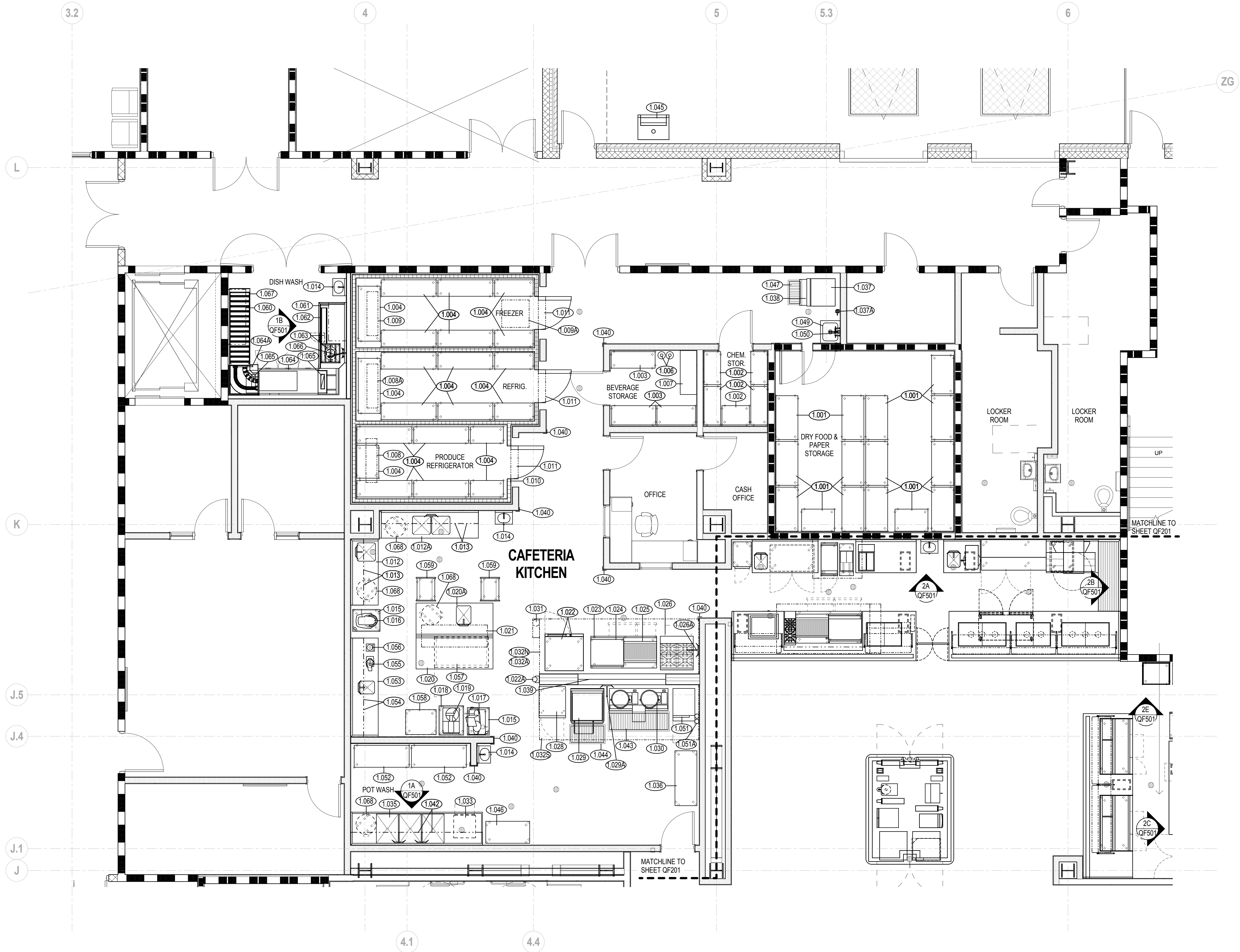


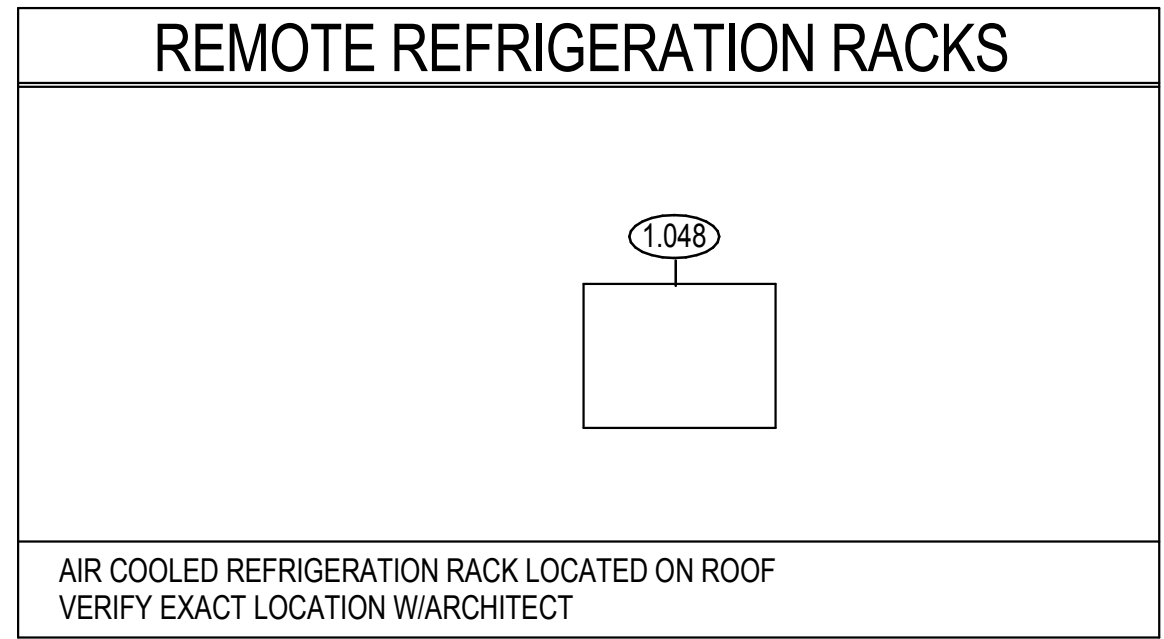
EXHIBIT I

MALCOLM X COLLEGE Recent Kitchen Upgrades and New Venues (Drawings) (QF101, QF201, QF301 – 3 pages)

1.0 CAFETERIA KITCHEN EQUIPMENT SCHEDULE			
ITEM NO.	QTY	DESCRIPTION	REMARKS
1.001	15	Plastic Shelving Unit	
1.002	5	Plastic Shelving Unit	
1.003	3	Plastic Shelving Unit	
1.004	21	Plastic Shelving Unit	
1.005	1	Open Number	
1.006	2	CO2 Tanks	
1.007	1	Bag and Box Soda Syrup System	Carbonator to be located in the soda room
1.008	1	Evaporator Coil +35 F	
1.008A	1	Evaporator Coil +35 F	
1.009	1	Evaporator Coil -10 F	
1.009A	1	Walk In Freezer Condenser	Glycol Cooled - "System B" Per Kairak Quote
1.010	1	Walk-In Complex	
1.011	3	Air Curtain	
1.012	1	Work Table w/ Sink	
1.012A	1	Work Table w/ Two-Compartment Sink	
1.013	4	Overshelf	
1.014	3	Hand Sink	
1.015	2	Equipment Stand	
1.016	1	Mixer, Planetary	
1.017	1	Slicer	
1.018	1	Equipment Stand	
1.019	1	Electric Food Cutter	
1.020	1	Work Table	
1.020A	1	Work Table w/ Sink	
1.021	1	Overshelf, Table Mounted	
1.022	2	Combi Oven	*Double-stacked
1.022A	1	Water Filter Assembly	Provides interconnected water supply to item 1.022 for steamer only
1.023	1	Refrigerated Equipment Stand	
1.024	1	Countertop Griddle	
1.025	1	Charbroiler	
1.026	1	Range, 36", 4 open burners	
1.026A	1	Single Pantry Faucet, Wall-Mounted	
1.027	1	Open Number	
1.028	1	Reach-In Refrigerator, 1 section	
1.029	1	Tilting Skillet, Gas	
1.029A	1	Wall Mounted Faucet	
1.030	1	Kettle Cabinet Assembly	
1.031	1	Fire Suppression System	To use building sprinkler system water
1.032A	1	Ventilation Control System	
1.032N	1	Exhaust Hood	
1.032S	1	Exhaust Hood	
1.033	1	Dishwasher, Undercounter	
1.034	1	Open Number	
1.035	1	Three (3) Compartment Sink	
1.036	1	Mobile Work Table	
1.037	1	Ice Cuber	Water Cooled
1.037A	1	Water filter assembly	
1.038	1	Ice Bin for Ice Machines	
1.039	1	Stainless Steel Wall Cap	
1.040	7	Corner Guards	
1.041	1	Open Number	
1.042	2	Wall Shelf	
1.043	1	Floor Trough	
1.044	1	Floor Trough	
1.045	1	Cardboard Baler	
1.046	1	Tray Drying Rack	
1.047	1	Floor Trough	
1.048	1	Refrigeration Rack	Air Cooled - "System A" Per Kairak Quote
1.049	1	Mop Sink	
1.050	1	Janitor Sink Faucet	
1.051	1	Convection Steamer	
1.051A	1	Water Filter Assembly	Provides filtered water connection to item 1.051
1.052	2	S/S Louvered Shelving Units	
1.053	1	Work Table w/ Sink	
1.054	1	Two-Tier Wall Shelf	
1.055	1	Food Processor	
1.056	1	Blender	
1.057	1	Blast Chiller/Shock Freezer	Customized on 4" caster w/ no back splash
1.058	1	Security Shelving Unit	
1.059	2	Bun Pan Rack	
1.060	1	Rack Overshelf	
1.061	1	Rack Overshelf	
1.062	1	Soiled Dish Table	
1.063	1	Disposer	
1.064	1	Dishwasher, Conveyor Type	w/ 30KW booster heater, side loader and automatic unloader
1.064A	1	Mechanical Unloader	
1.065	2	Dishwasher Vent Duct	
1.066	1	Pre-Rinse	
1.067	1	Clean Dish Roller Table	
1.068	4	Trash Container w/ dolly	



1 Kitchen Equipment Plan - Level 01
1/4" = 1'-0"

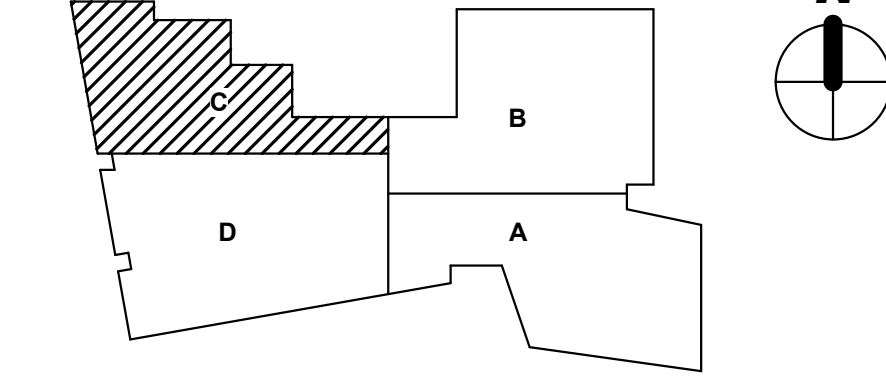


AIR COOLED REFRIGERATION RACK LOCATED ON ROOF
VERIFY EXACT LOCATION W/ARCHITECT

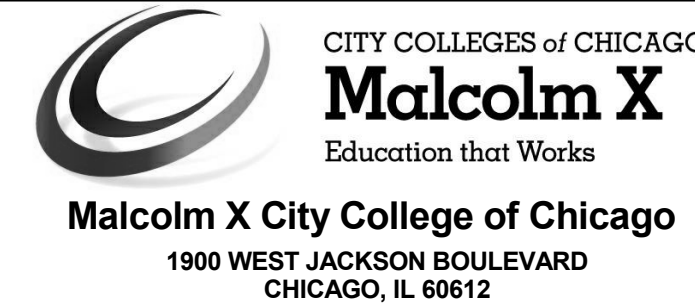
DOB APPROVAL STAMP

KEY PLAN

Note: Level 01 = 100'-0" = 14.6' CCD



#	Date	Change Description
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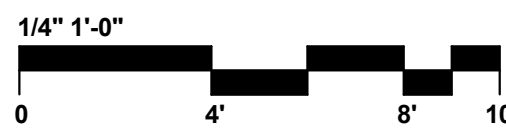
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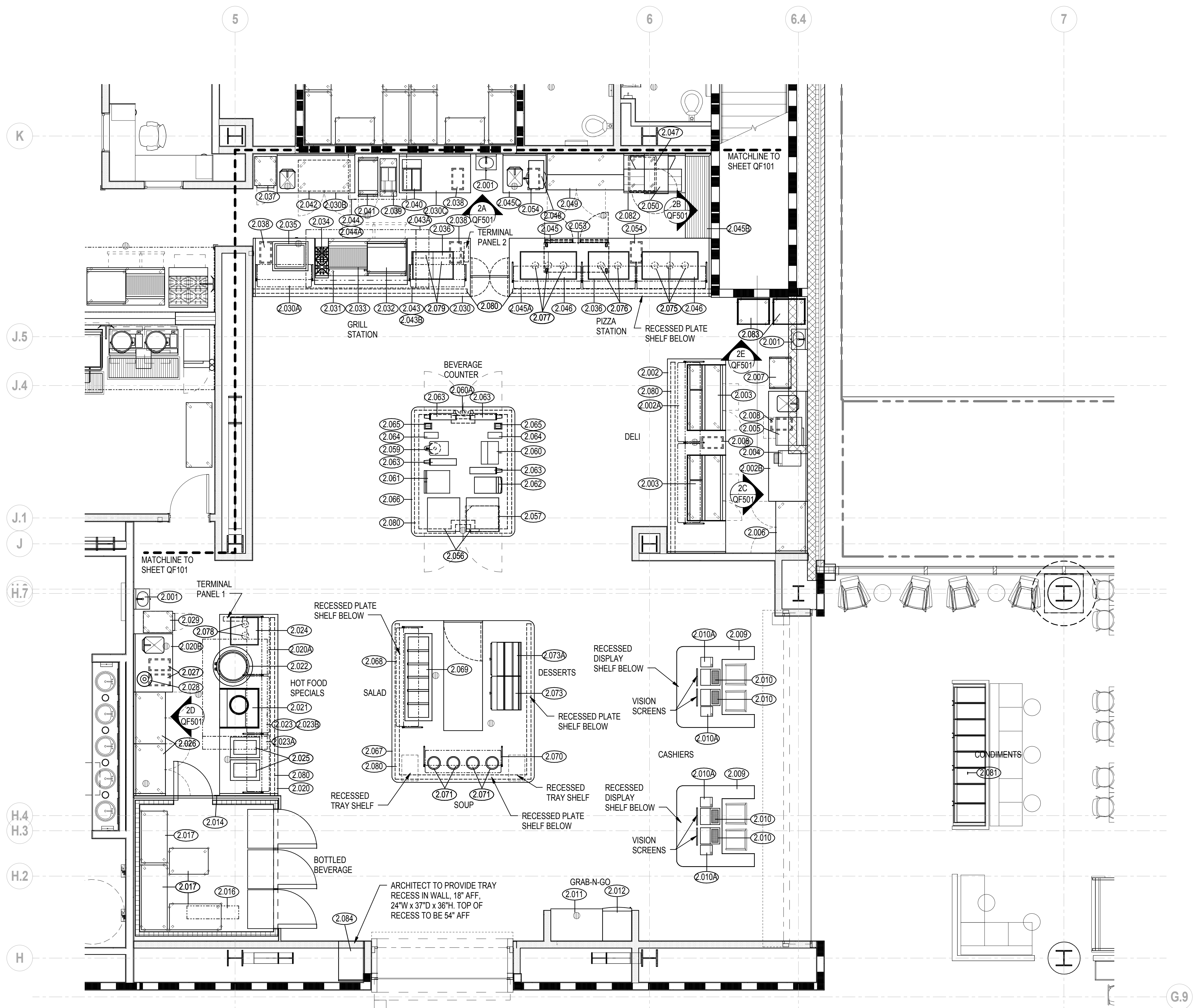
Dwg. Coord.: CAD Tech. Coord.: AUKB Proj. #12598

FOODSERVICE EQUIPMENT PLAN
AND SCHEDULE - KITCHEN
ISSUED FOR CONSTRUCTION

QF101
03/01/2014



2.0 SERVERY EQUIPMENT SCHEDULE			
ITEM NO.	QTY	DESCRIPTION	REMARKS
2.001	3	Hand Sink	
2.002	1	Contoura Counter - Deli	
2.002A	1	Food Shield with Lights	
2.002B	1	Work Counter with Sink	
2.003	2	Refrigerated Sandwich Unit	
2.004	1	Conveyor Toaster	
2.005	1	Microwave Convection Oven	
2.006	1	Reach-in Work-Top Refrigerator, 2 section	
2.007	1	Bread Display Rack	
2.008	2	Garbage Can	
2.009	2	Contoura Counters - Cashier	
2.010	4	P.O.S.	Supplier to verify utility requirements
2.010A	4	Retail Food Scale - NIKEC By Owner	Supplier to verify utility requirements
2.011	1	Air Screen Open Merchandiser	
2.012	1	Glass Door Freezer Merchandiser	
2.013	1	Open Number	
2.014	1	Walk-in Complex	
2.015	1	Open Number	
2.016	1	Evaporator Coil +35 F	
2.017	4	Plastic Shelving Unit	
2.018	1	Open Number	
2.019	1	Open Number	
2.020	1	Contoura Counter - Hot Foods	
2.020A	1	Food Shield with Lights	
2.020B	1	Back counter with Sink	
2.021	1	Wok Range	
2.022	1	Gas-Electric Presentation Cook Top	
2.023	1	Exhaust Hood	
2.023A	1	Fire Suppression System	To use building sprinkler system water
2.023B	1	Ventilation Control System	
2.024	1	Drop-In Heated Shelf	
2.025	2	Hot/Cold Drop-In Well	
2.026	2	Reach-in Work-Top Refrigerator, 2 section	
2.027	2	Garbage Can	
2.028	1	Rice Cooker	
2.029	1	Heated Holding Bin	
2.030	1	Contoura Counter - Grill Station	
2.030A	1	Food Shield with Lights	
2.030B	1	Back Counter with Sink	
2.030C	1	Back Counter	
2.031	1	Refrigerated Equipment Stand	
2.032	1	Countertop Griddle	
2.033	1	Charbroiler	
2.034	1	Range, 12" 2 open burners	
2.035	1	Hot/Cold Drop-In Well	
2.036	2	Drop-In Heated Shelf	
2.037	1	Heated Holding Bin	
2.038	3	Garbage Can	
2.039	1	Fryer	
2.040	1	French Fry Warmer	
2.041	1	Griddle Range	
2.042	1	Reach-in Undercounter Freezer, 2 section	
2.043	1	Exhaust Hood	
2.043A	1	Fire Suppression System	To use building sprinkler system water
2.043B	1	Ventilation Control System	
2.044	1	Exhaust Hood	
2.044A	1	Ventilation Control System	
2.045	1	Contoura Counter - Pizza	
2.045A	1	Food Shield with Lights	
2.045B	1	Work Table w/ wood top	
2.045C	1	Back Counter with Sink	
2.046	2	Drop-In Heated Shelf	
2.047	1	Mobile Heated Cabinet	
2.048	1	Pizza Dough Spinner	
2.049	1	Refrigerated Pizza Table	
2.050	1	Conveyor Oven	
2.051	1	Open Number	
2.052	1	Open Number	
2.053	1	Reach-in Undercounter Refrigerator, 2 section	
2.054	2	Garbage Can	
2.055	1	Open Number	
2.056	2	Soda Dispenser - Vendor Supplied	Supplier to verify utility requirements and connections
2.057	1	Ice Machine, Nugget Compressed	
2.058	1	Open Number	
2.059	1	Tea Brewer	NIKEC - By Vendor
2.060	1	Coffee Brewer	NIKEC - By Vendor; vendor to verify all utility requirements
2.060A	1	Water Filter Assembly	To supply indirect water connection to items 2.057, 2.059, 2.060, 2.061, 2.062
2.061	1	Beverage Dispenser	
2.062	1	Juice Dispenser	NIKEC - By Vendor; vendor to verify all utility requirements
2.062A	1	Open Number	
2.063	4	Disposable Cup Dispenser	
2.064	2	Lid Dispenser	
2.065	2	Paper Napkin Dispenser	
2.066	1	Contoura Counter - Beverage	
2.067	1	Contoura Counter - Salad, Soup, Dessert	
2.068	1	Food Shield with Lights	
2.069	1	Cold Food Pan, Drop-In	
2.070	1	Food Shield with Lights	
2.071	4	Drop-In Hot Food Well Unit, Electric	
2.072	1	Open Number	
2.073	1	Vienna Cold Display, Drop-In	
2.073A	1	Ambient Temperature Display	
2.074	1	Open Number	
2.075	3	Decorative Heat Lamps	Track mounted
2.076	2	Decorative Heat Lamps	Track mounted
2.077	3	Decorative Heat Lamps	Track mounted
2.078	2	Decorative Heat Lamps	Track mounted
2.079	2	Heat Lamp, Strip	To be mounted on Food Shield
2.080	6	Stainless Steel Equipment Base	
2.081	1	Condiment Counter	NIKEC - By Millwork
2.082	1	Back Counter	
2.083	2	Tray Cart	
2.084	1	Custom S/S Tray Shelf for Wall Recess	

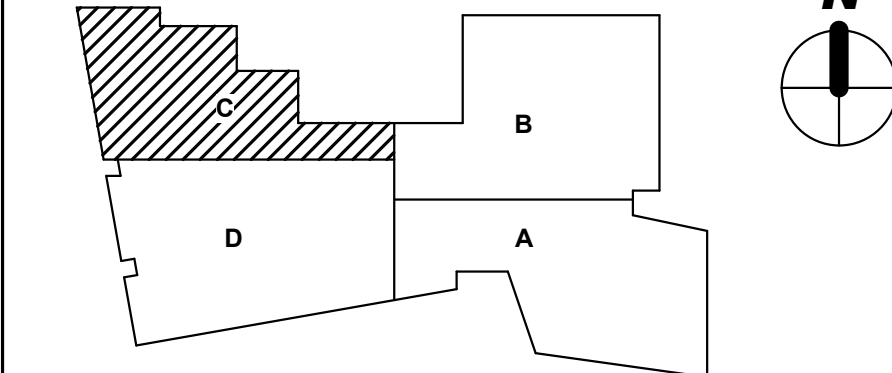


1. Server Equipment Plan - Level 01
1/4" = 1'-0"

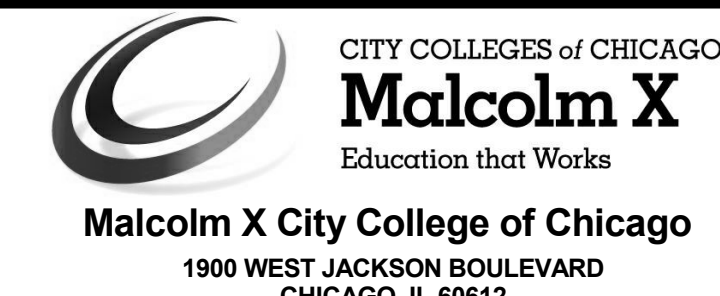
DOB APPROVAL STAMP

KEY PLAN

Note: Level 01 = 100'-0" = 14.6' CDD



#	Date	Change Description
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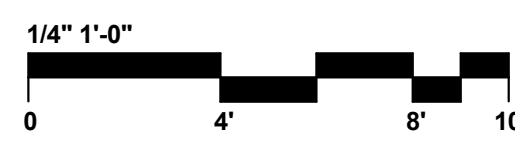
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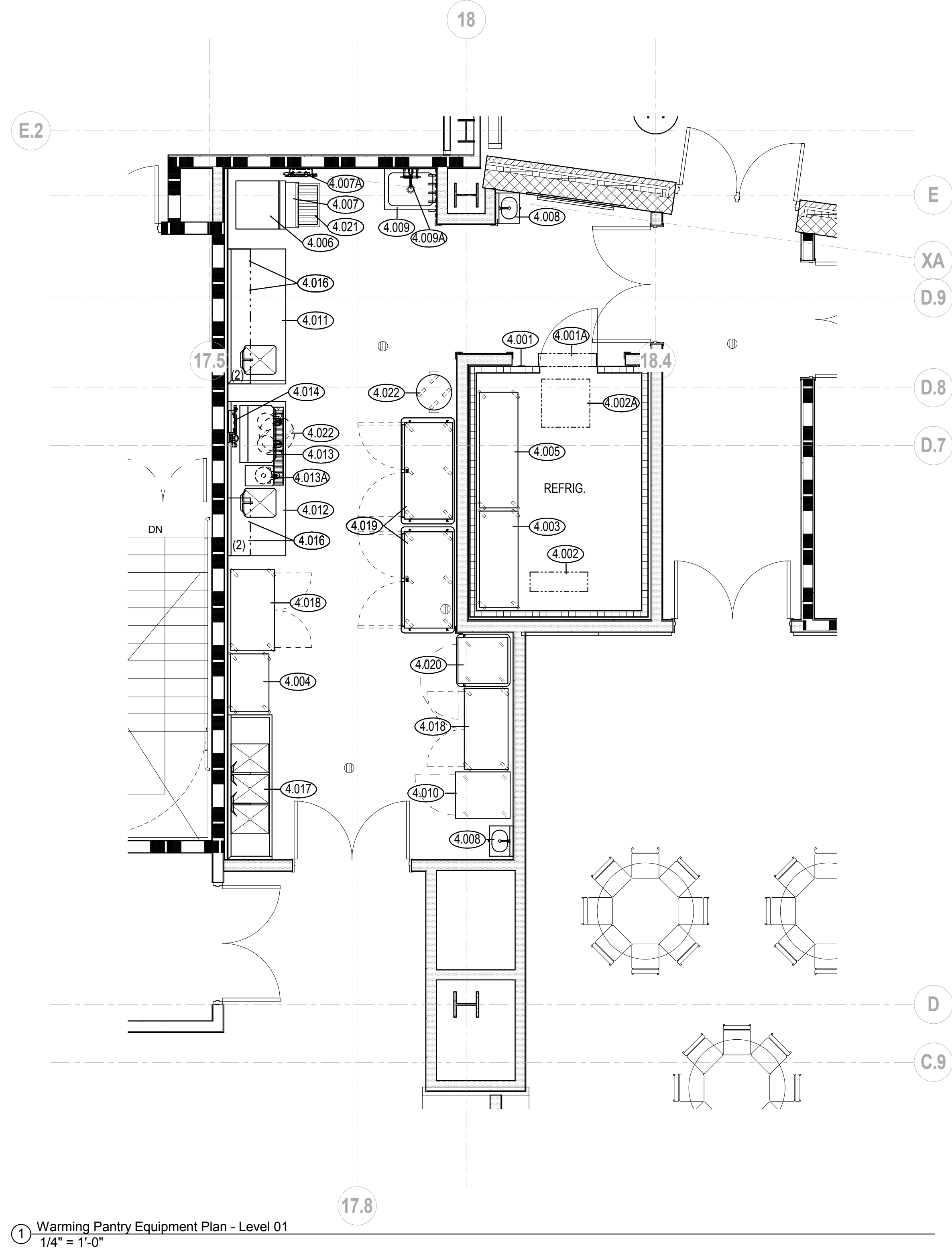
Dwg. Coord.: CAD Tech. Coord.: AUKB Proj. #12598

FOODSERVICE EQUIPMENT PLAN
AND SCHEDULE - SERVERY
ISSUED FOR CONSTRUCTION

QF201
03/01/2014



4.0 WARMING PANTRY EQUIPMENT SCHEDULE			
ITEM NO.	QTY	DESCRIPTION	REMARKS
4.001	1	Walk-In Cooler	
4.001A	1	Air Curtain	
4.002	1	Evaporator Coil +35 F	
4.002A	1	Walk-in Refrigerator Condenser	Air Cooled - "System E" on the Kairak quote
4.003	1	Plastic Shelving Unit	
4.004	1	Plastic Shelving Unit	
4.005	1	Plastic Shelving Unit	
4.006	1	Ice Cuber	Water Cooled
4.007	1	Ice Bin for Ice Machines	
4.007A	1	Water Filter Assembly	Provides indirect water supply for item 4.006
4.008	2	Hand Sink	Verify location with structural engineer
4.009	1	Mop Sink	Verify location with structural engineer
4.009A	1	Mop Sink Faucet	
4.010	1	Reach-In Dual Temp Cabinet, self-contained	
4.011	1	Work Table w/ Sink	
4.012	1	Work Table w/ Sink	Customized to include 6" x 48" drip trough
4.013	1	Coffee Brewer	NIKEC - by Vendor
4.013A	1	Tea Brewer	
4.014	1	Water Filter Assembly	
4.015	1	Open Number	
4.016	4	Wall Shelf	
4.017	1	Three (3) Compartment Sink	
4.018	2	Security Unit	
4.019	2	Heated Banquet Cart	
4.020	1	Heated Banquet Cart	
4.021	1	Floor Trough	
4.022	2	Trash Container	



1 Warming Pantry Equipment Plan - Level 01
1/4" = 1'-0"

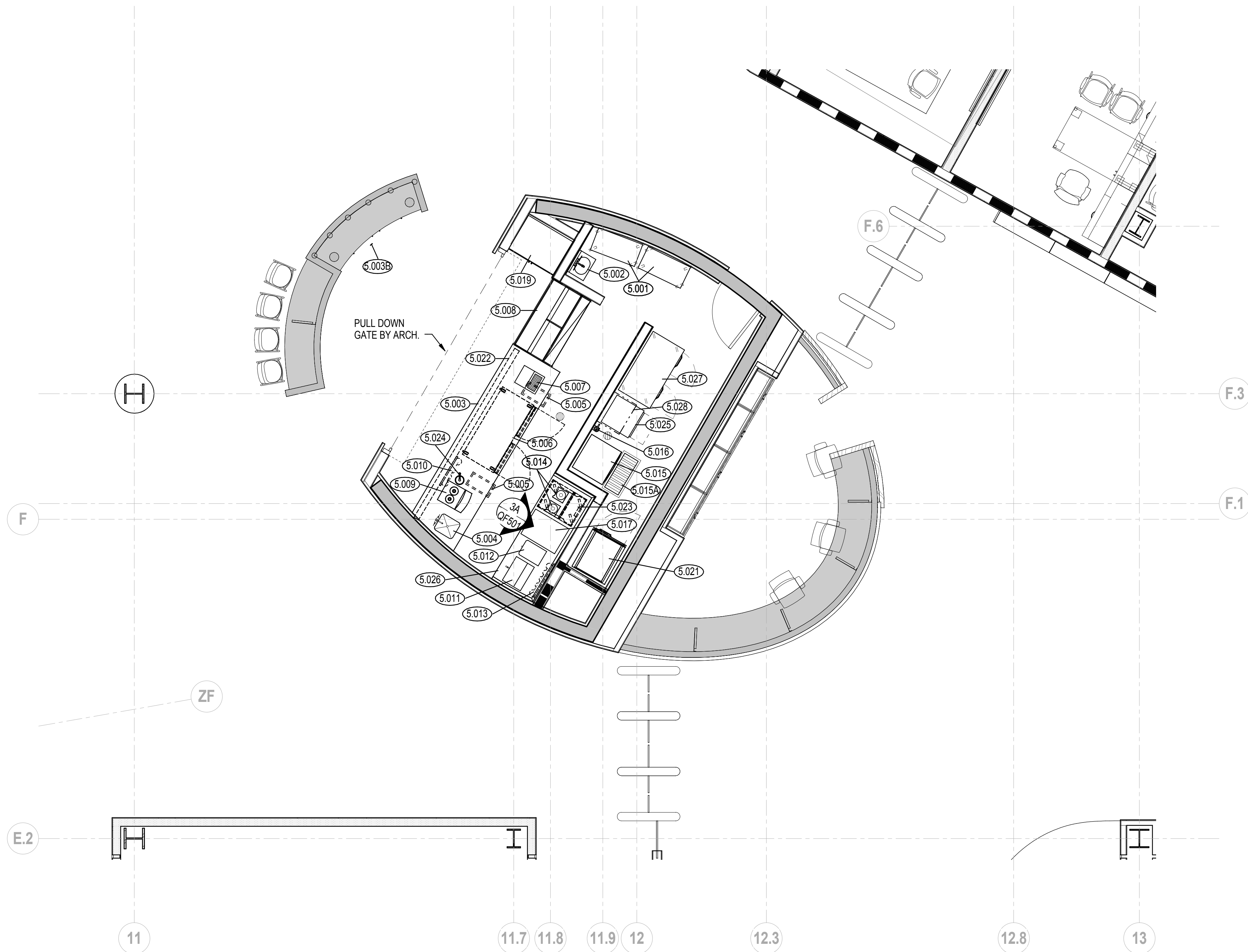


EXHIBIT I

Recent Kitchen Upgrades and New Venues (Drawings) DALEY COLLEGE

Architect:
ROULA ASSOCIATES ARCHITECTS, CHTD.
ONE EAST SUPERIOR STREET #205, CHICAGO, IL 60611

KITCHEN EQUIPMENT
EDGE ASSOCIATES
220 E. LAKE STREET, SUITE 303
ADDISON, IL 60101

[illegible]

A detailed map of the Chicago metropolitan area and surrounding suburbs. Major highways are shown as thick lines with route numbers in shields. The map includes labels for numerous suburbs and regions, such as Oak Park, West Town, Cicero, North Lawndale, South Side, and Oak Lawn. The city of Chicago is centrally located, with its major roads and landmarks indicated. The map also shows the surrounding areas of Indiana and Wisconsin, with labels like 'IN' and 'WI'.

- A1.1 DEMOLITION PLAN
- A2.1 SURVEY AND HIGHEN FLOOR PLAN
- A2.2 REFLECTED CEILING PLAN
- A3.1 FLOORING PLAN
- A3.2 INTERIOR ELEVATIONS
- A4.1 INTERIOR WALL DETAILS

FOOD SERVICE EQUIPMENT

- F51 FOOD SERVICE EQUIPMENT, COUNTER DEMOLITION PLANS
- F52 FOOD SERVICE UTILITY SCHEDULES
- F53 FOOD SERVICE PLUMBING PLAN
- F54 FOOD SERVICE ELECTRICAL PLAN
- F55 FOOD SERVICE EQUIPMENT DETAILS

MECHANICAL

- M0.1 MECHANICAL NOTES AND SYMBOLS
- M1.0 MECHANICAL DEMO PLAN
- M2.0 NEW MECHANICAL PLAN

ELECTRICAL

- E0.1 ELECTRICAL NOTES AND SYMBOLS
- E1.0 DEMO POWER PLAN
- E1.1 DEMO LIGHTING PLAN
- E2.0 NEW WORK - POWER PLAN
- E3.0 NEW WORK - LIGHTING PLAN
- E4.0 NEW WORK - DATA PLAN
- E5.0 ELECTRICAL SCHEDULES
- E5.1 ELECTRICAL SCHEDULES
- E5.2 LIGHTING SCHEDULE
- E6.0 ELECTRICAL DETAILS

DATE	LIC. EXP. DATE
------	----------------

PAUL REICH

DATE	LIC. EXP. DATE
------	----------------

ROULA ALAKIOTOU



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CHICAGO, IL 60654
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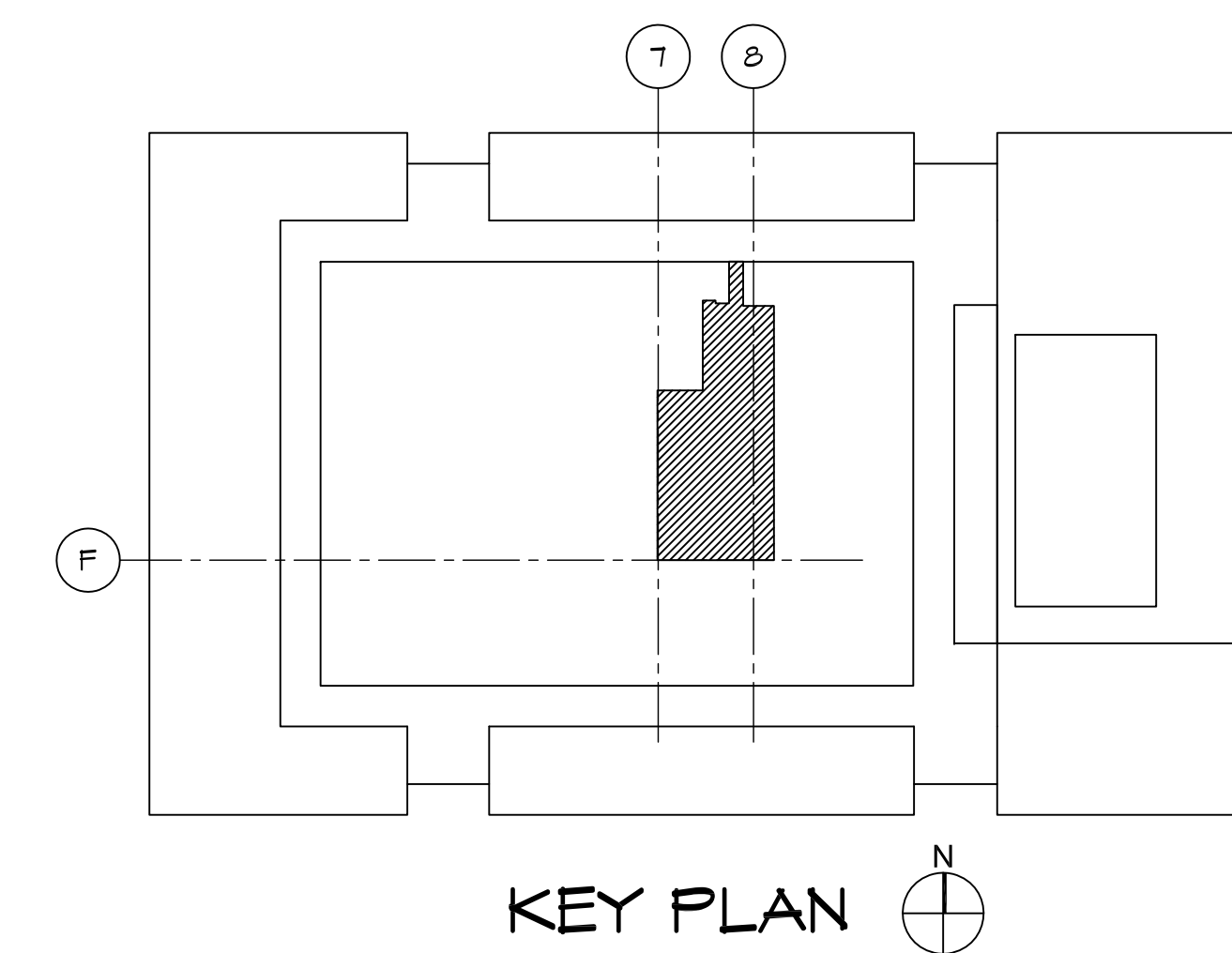
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ADDISON, IL 60101
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SEE FOOD SERVICE EQUIPMENT PLANS
AND MECHANICAL, ELECTRICAL, AND
PLUMBING PLANS FOR ADDITIONAL
DEMOLITION WORK.

EQUIPMENT BEING REMOVED TO BE
TURNED OVER TO OWNER.

ALL EXISTING EQUIPMENT THAT
REMAINS AND EXISTING EQUIPMENT
RELOCATED FROM OTHER CITY
COLLEGES, IS TO BE THOROUGHLY
CLEANED.



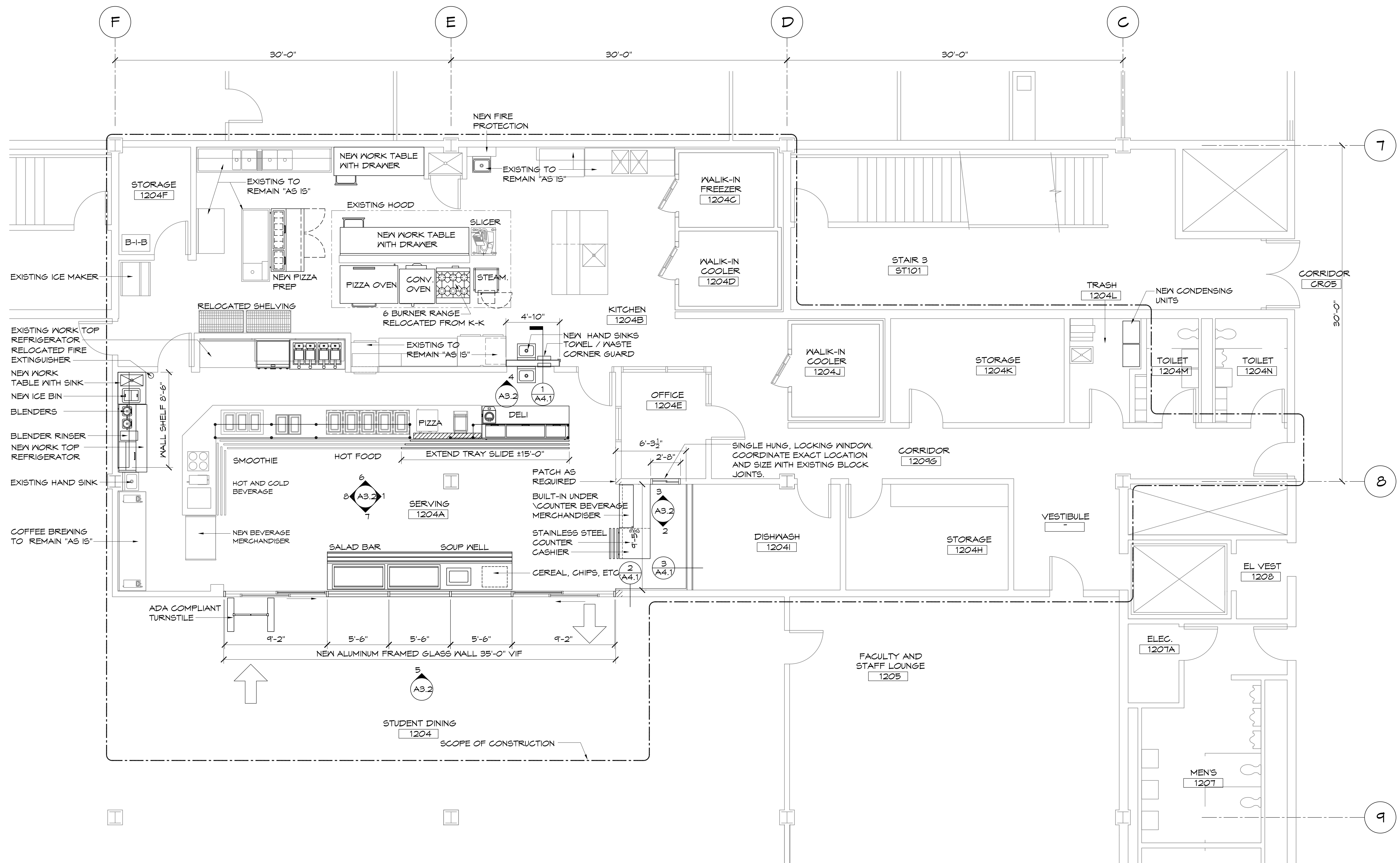
KITCHEN AND SERVERY RENOVATIONS

RICHARD J. DALEY COLLEGE
7500 S. PULASKI CHICAGO, IL 60652

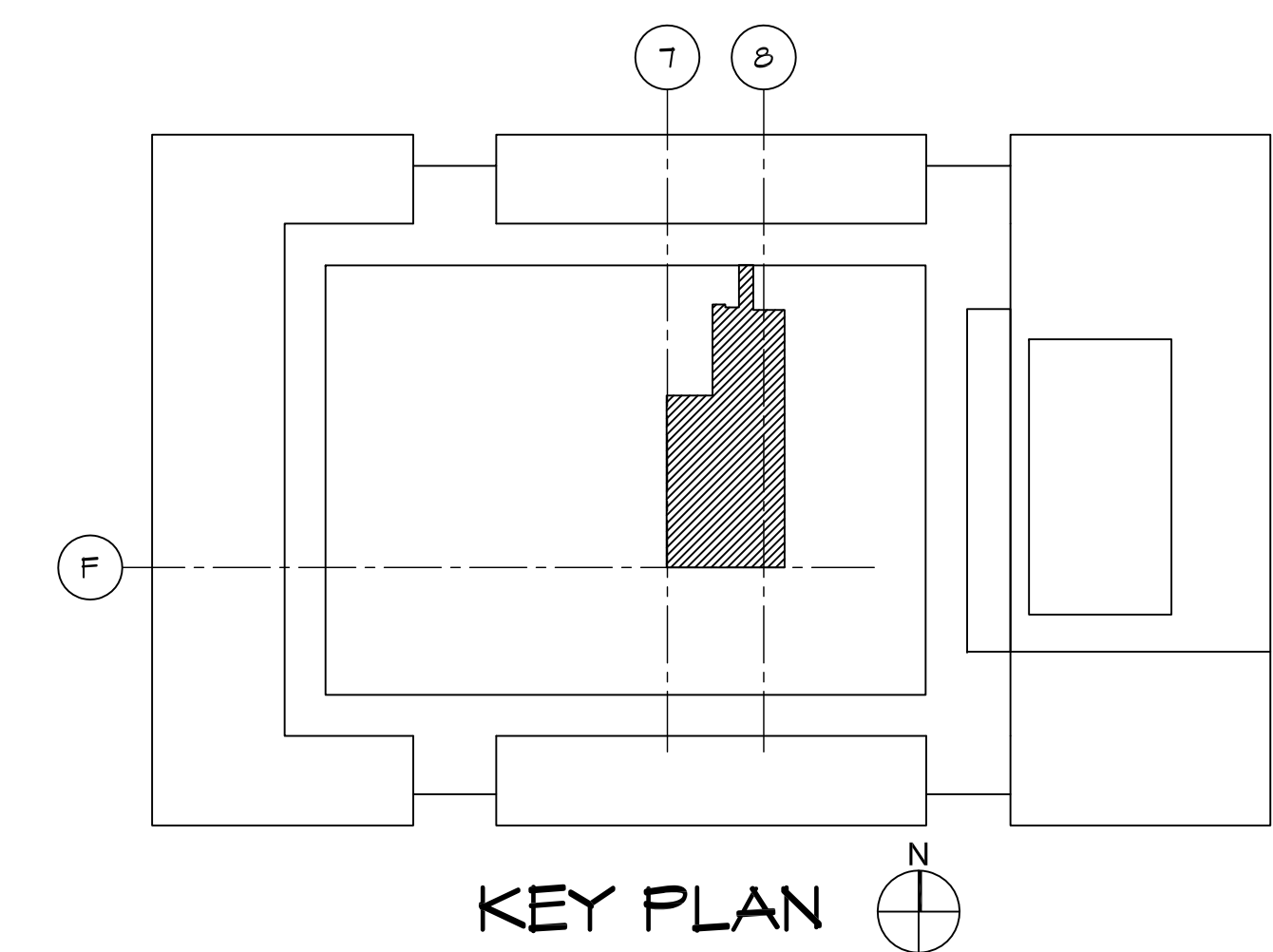
DEMOLITION PLAN

PROJECT NO:	1401	SHEET NO:
SCALE:	1/4" = 1'-0"	

A1.1



1 KITCHEN / SERVERY FLOOR PLAN
SCALE: 1/4" = 1'-0"



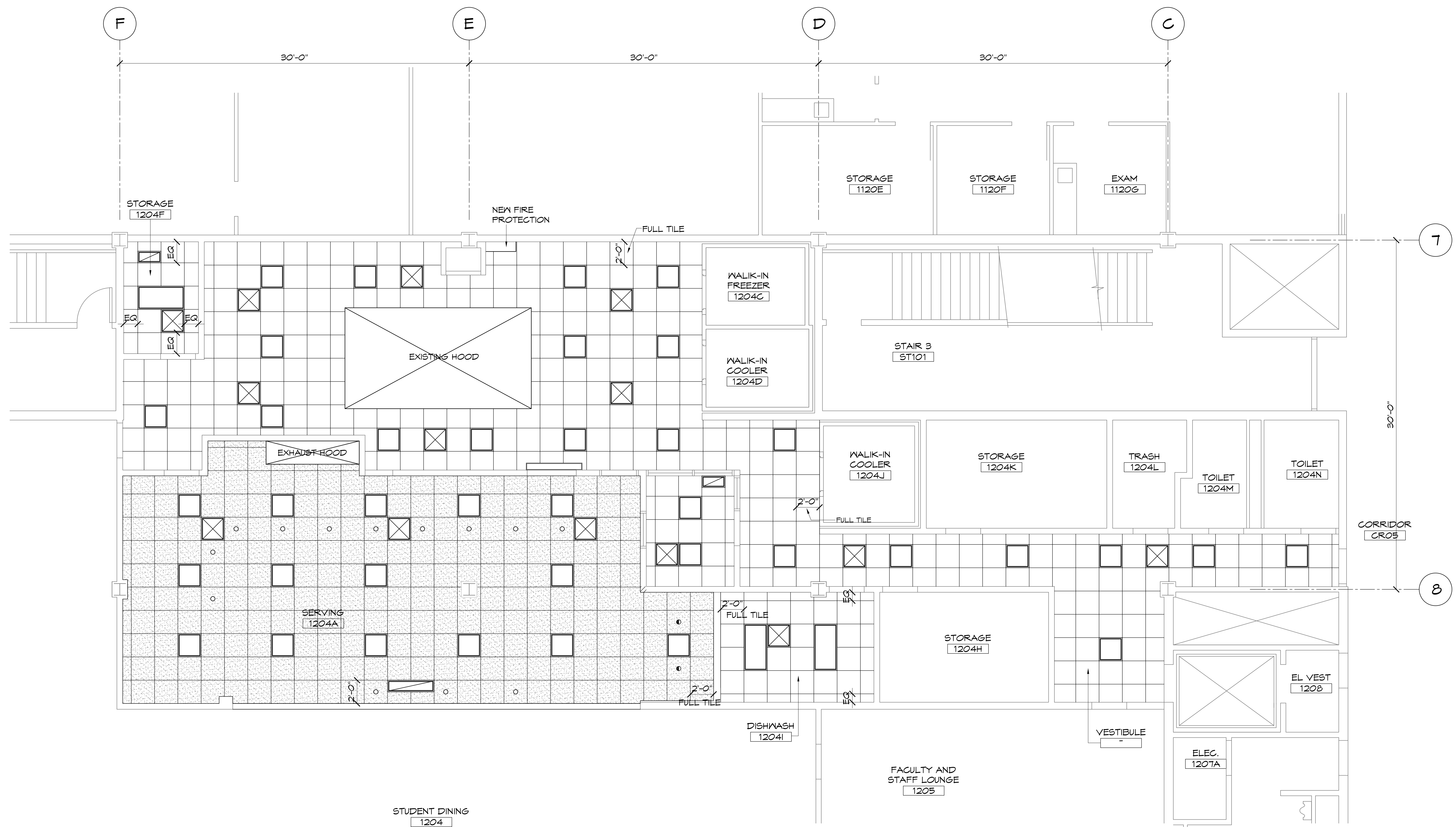
NO.	DATE	REVISIONS
3	06-27-14	100% CONSTRUCTION DOCUMENTS
2	05-16-14	75% CONSTRUCTION DOCUMENTS
1	04-18-14	SCHEMATIC DESIGN

KITCHEN AND SERVERY RENOVATIONS

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7500 S. PULASKI CHICAGO, IL. 60652

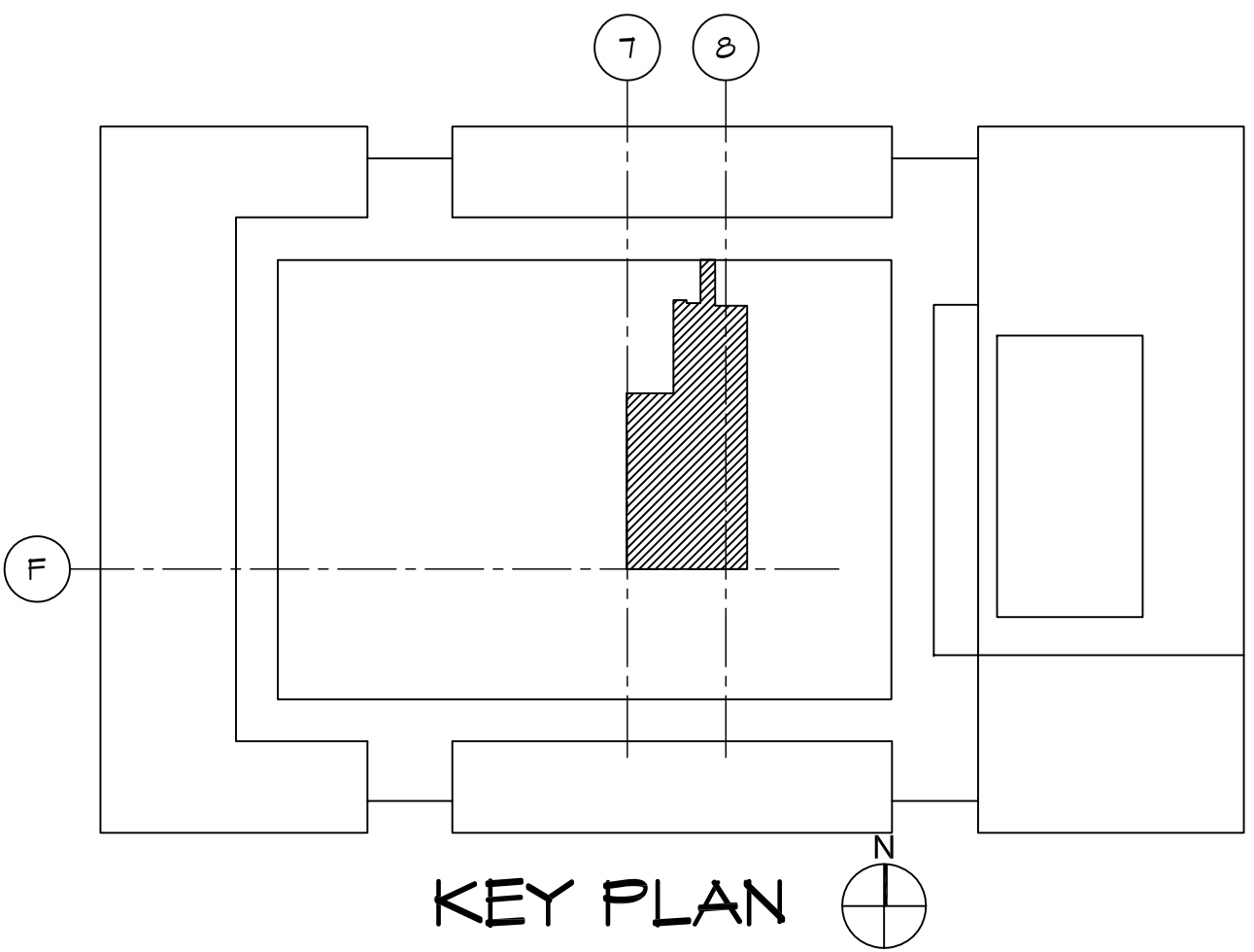
**KITCHEN / SERVERY
PLAN AND ELEVATIONS**

PROJECT NO.	1401	SHEET NO.
SCALE:	1/4" = 1'-0"	



1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

LEGEND			
	2X2 ACOUSTICAL CEILING TILE WITH VINYL-LAMINATED FACE AND SEALED BACK AND EDGES.		2X2 LIGHT FIXTURE
	2X2 ACOUSTICAL CEILING TILE WITH WATER REPELLENT MEMBRANE.		PENDANT LIGHT FIXTURE
	2X4 LIGHT FIXTURE		RECESSED WALL WASH
			SUPPLY
			RETURN



KEY PLAN

ROULA ASSOCIATES ARCHITECTS, CHTD.
1 E. SUPERIOR STREET, CHICAGO, IL. 60611
Tel: 312.822.9921 Fax: 312.822.0246
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EDGE ASSOCIATES
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ADDISON, IL. 60101
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NO.	DATE	REVISIONS
2	06-27-2014	100% CONSTRUCTION DOCUMENT
1	05-16-2014	75% CONSTRUCTION DOCUMENT

City Colleges of Chicago
226 W. JACKSON BLVD.
CHICAGO, IL. 60606
CAPITAL PLANNING
AND CONSTRUCTION

KITCHEN AND SERVERY RENOVATIONS

RICHARD J. DALEY COLLEGE
7500 S. PULASKI CHICAGO, IL. 60652

SHEET TITLE
REFLECTED CEILING PLAN

PROJECT NO.	1401	SHEET NO.	A2.2
SCALE:	1/4" = 1'-0"		

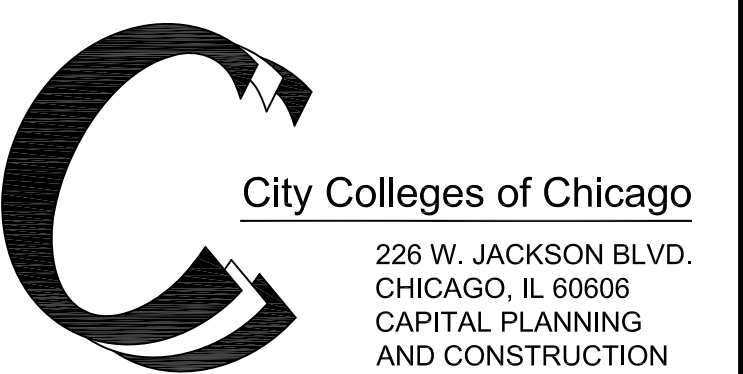


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3	06-27-14	100% CONSTRUCTION DOCUMENTS
2	05-16-14	75% CONSTRUCTION DOCUMENTS
1	04-18-14	SCHEMATIC DESIGN
NO.	DATE	REVISIONS



KITCHEN AND SERVERY RENOVATIONS

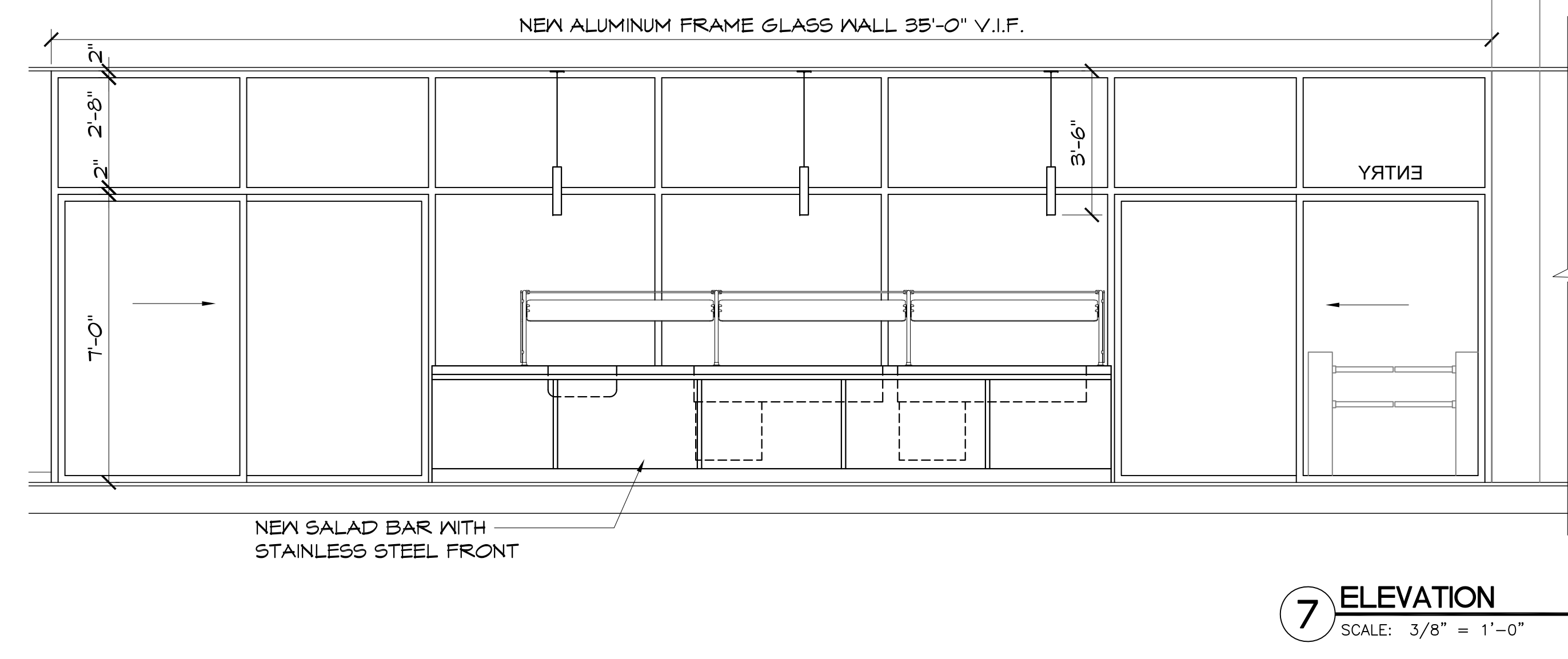
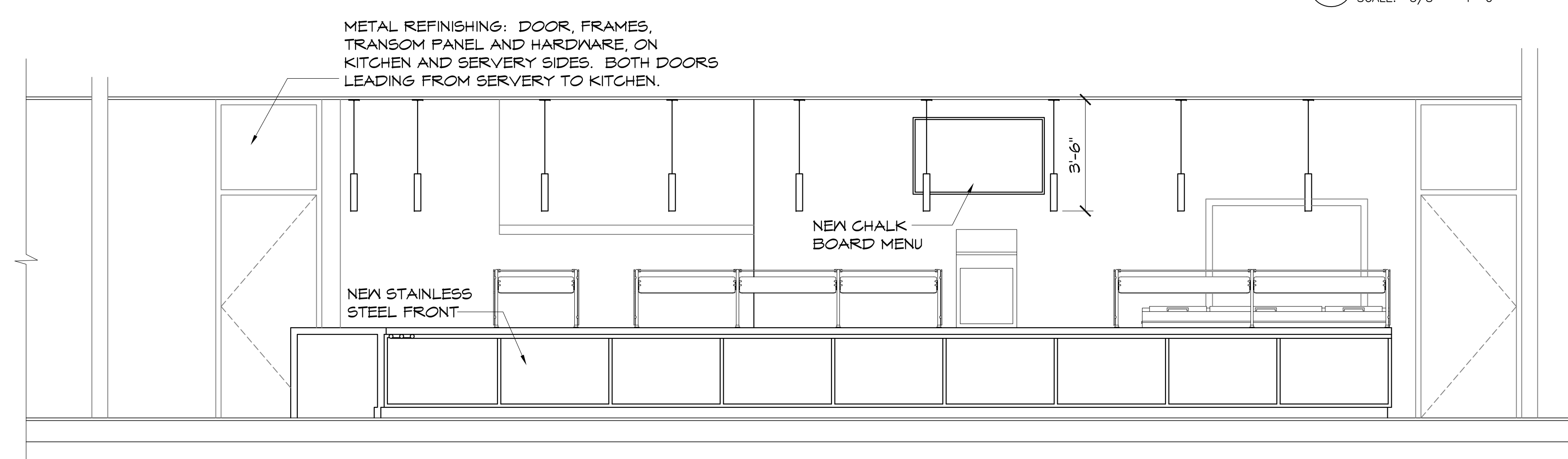
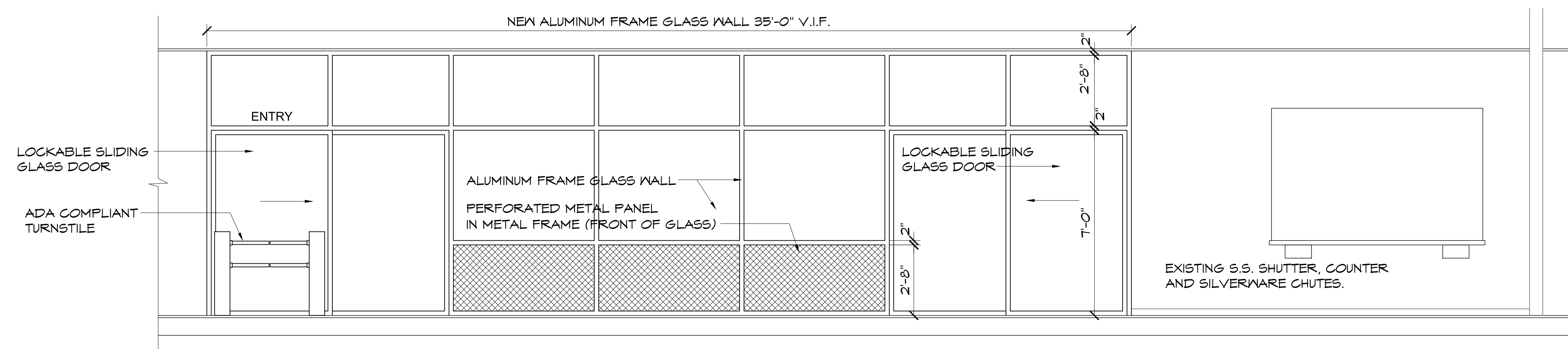
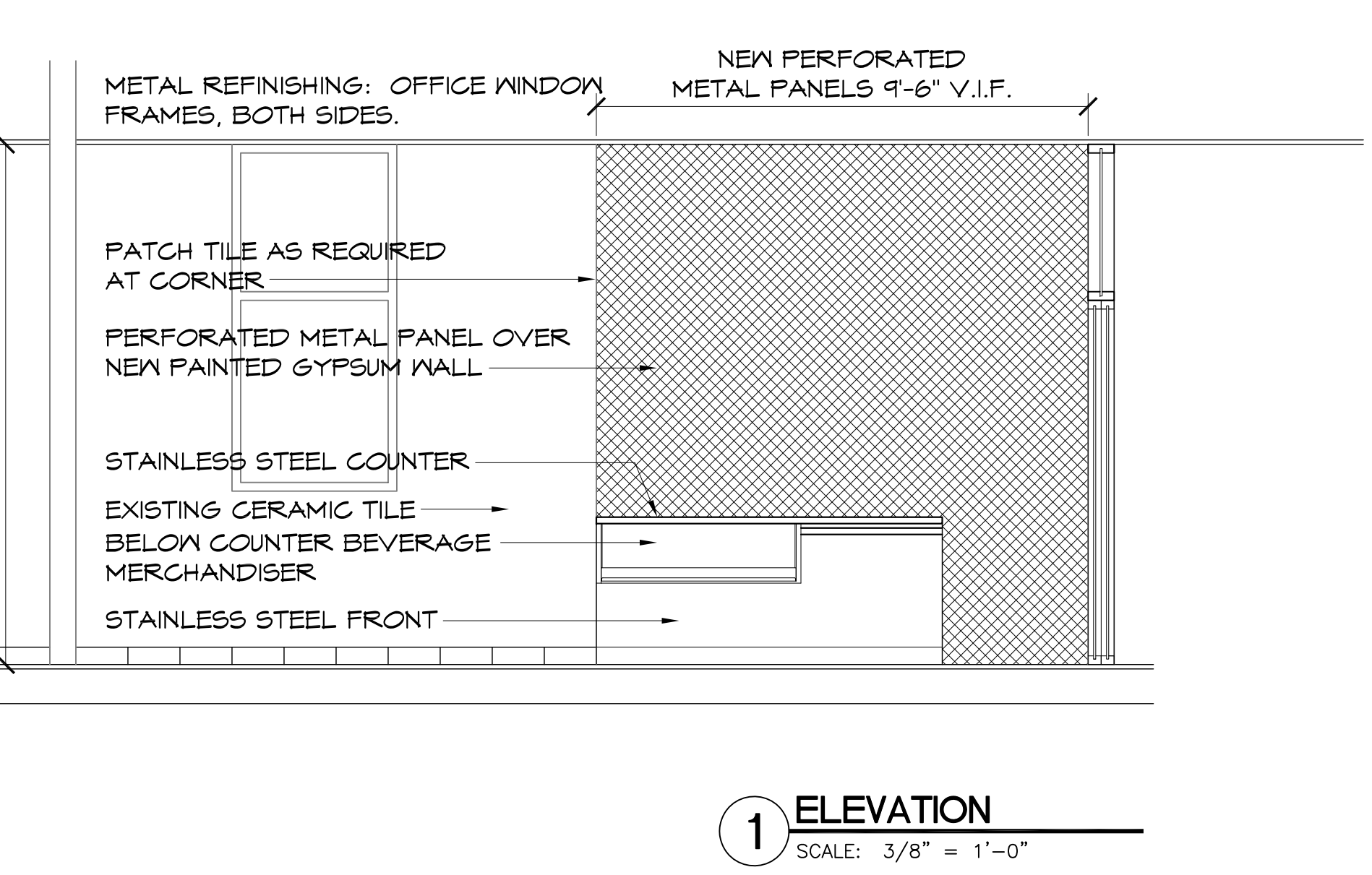
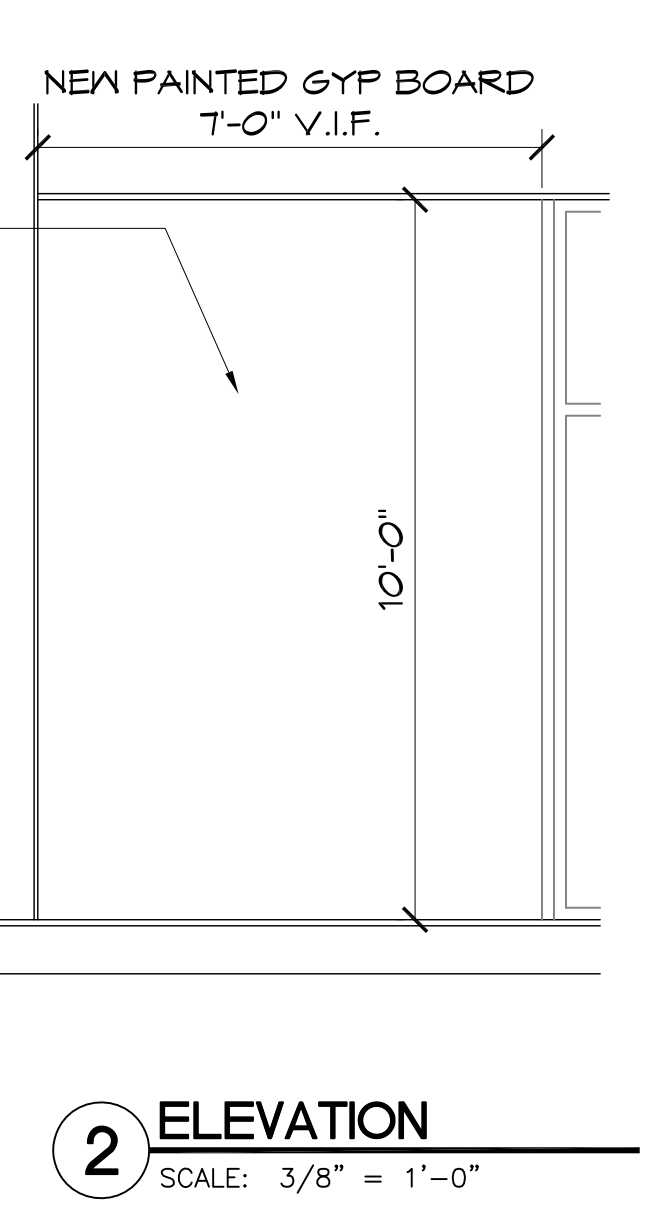
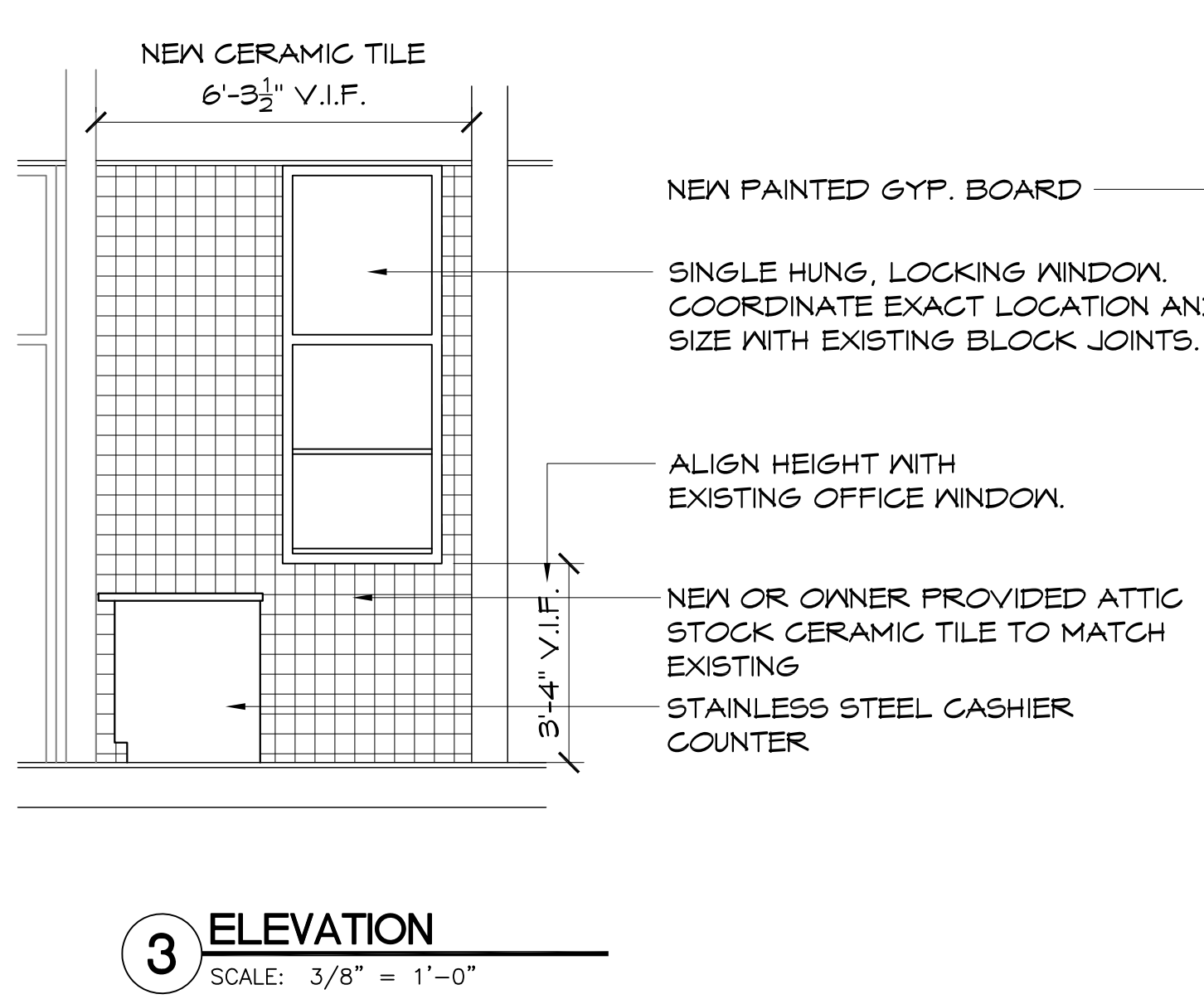
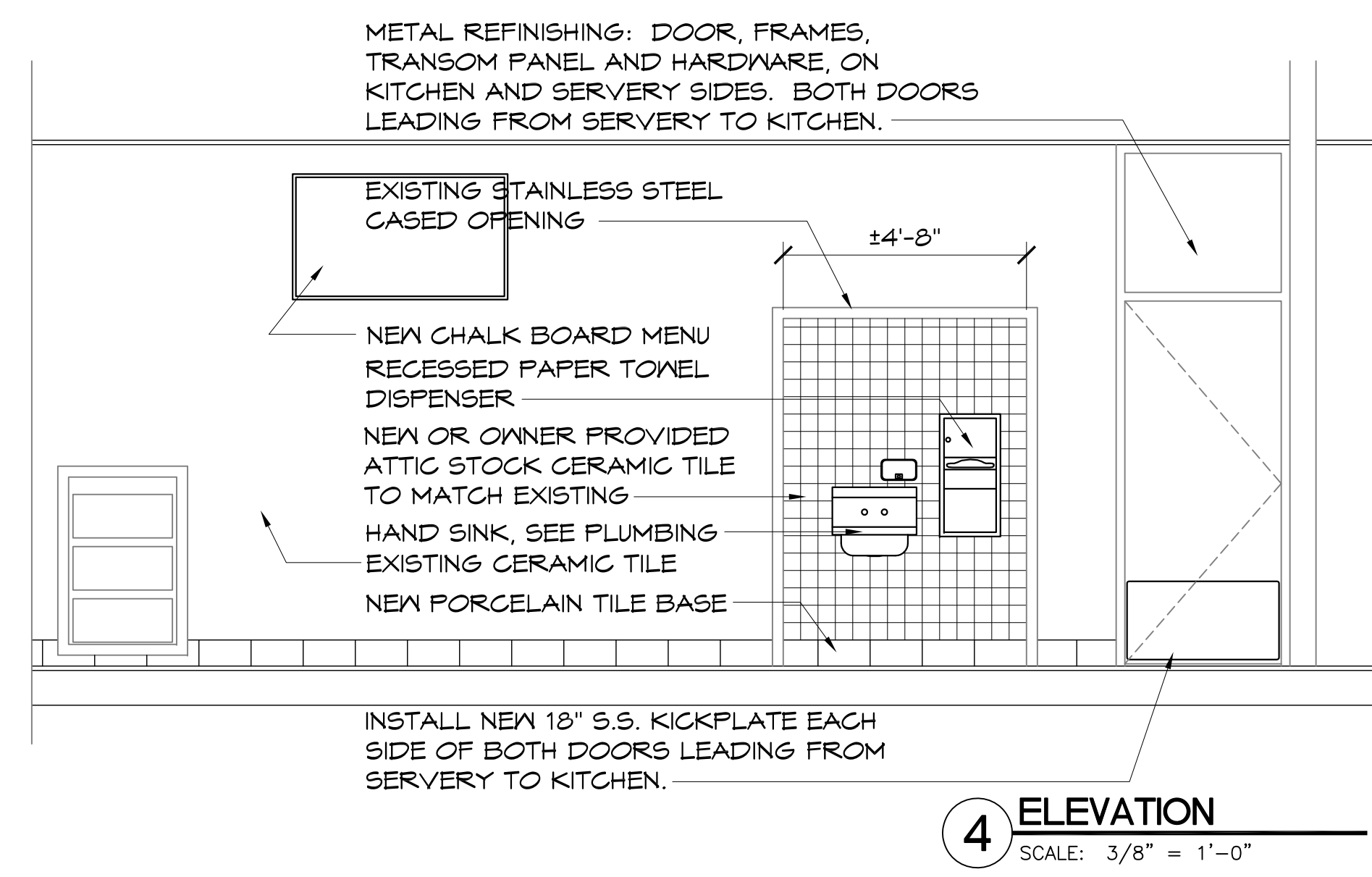
RICHARD J. DALEY COLLEGE
7500 S. PULASKI CHICAGO, IL 60652

KITCHEN / SERVERY FLOORING PLAN

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SCALE:	1/4" = 1'-0"		

A3.1

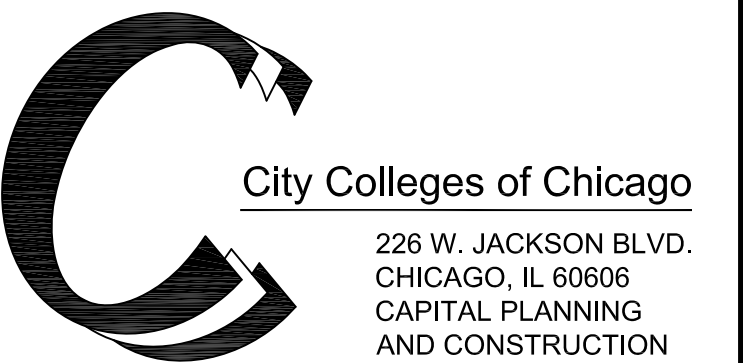
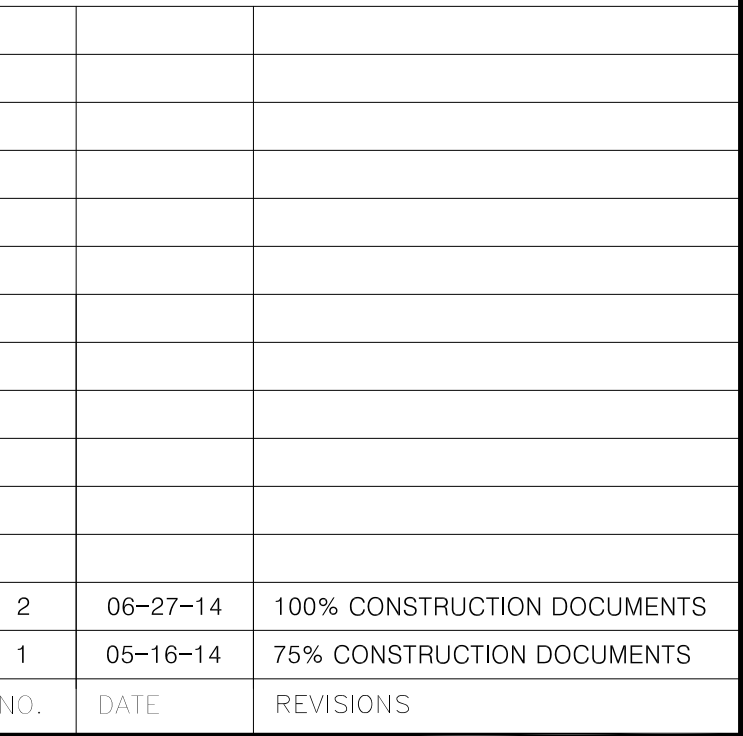
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2	05-16-14	75% CONSTRUCTION DOCUMENT
1	04-18-14	SCHEMATIC DESIGN





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KITCHEN EQUIPMENT
EDGE ASSOCIATES
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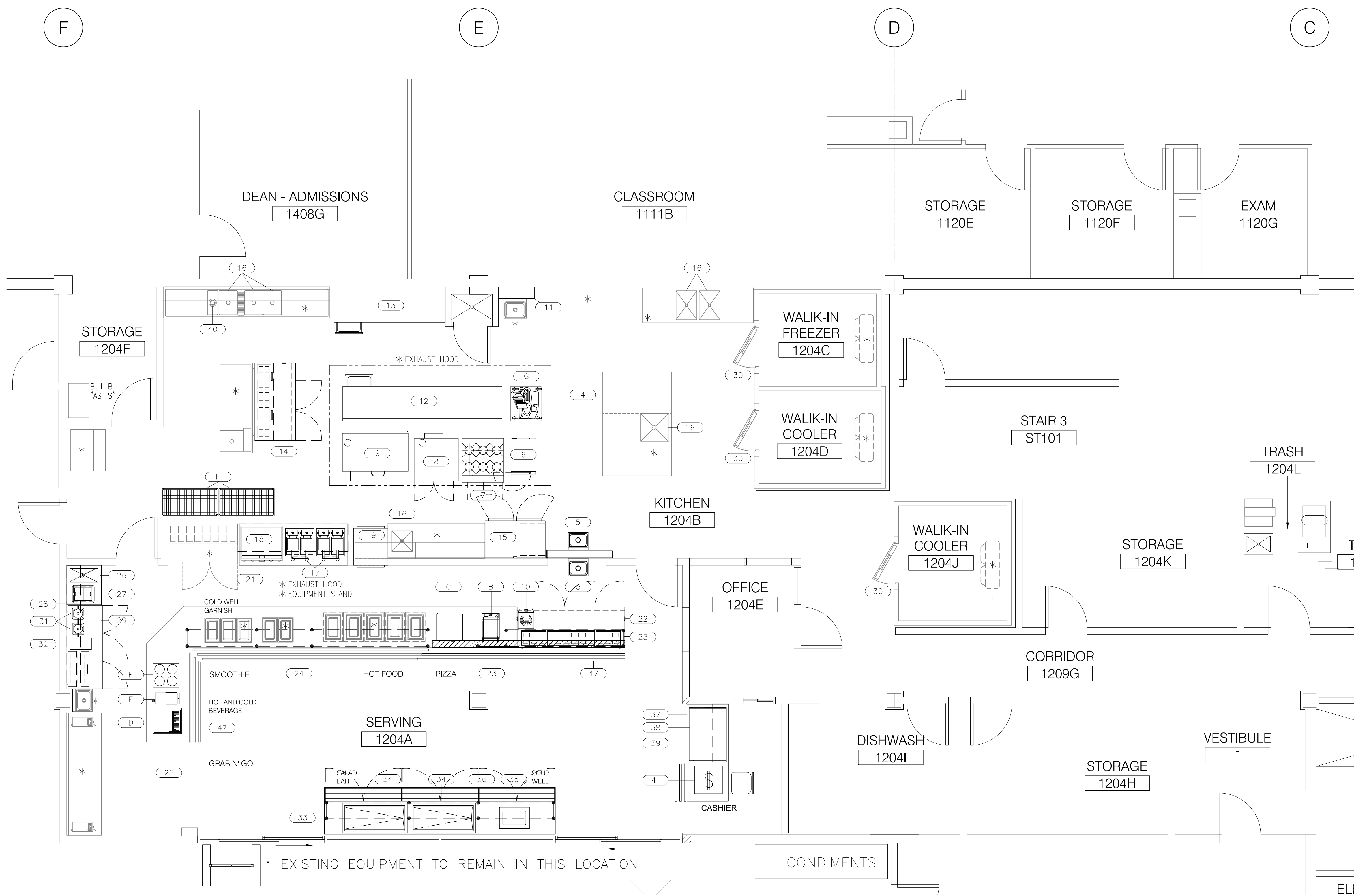
KITCHEN AND SERVERY RENOVATIONS

RICHARD J. DALEY COLLEGE
7500 S. PULASKI CHICAGO, IL 60652

INTERIOR WALL DETAILS

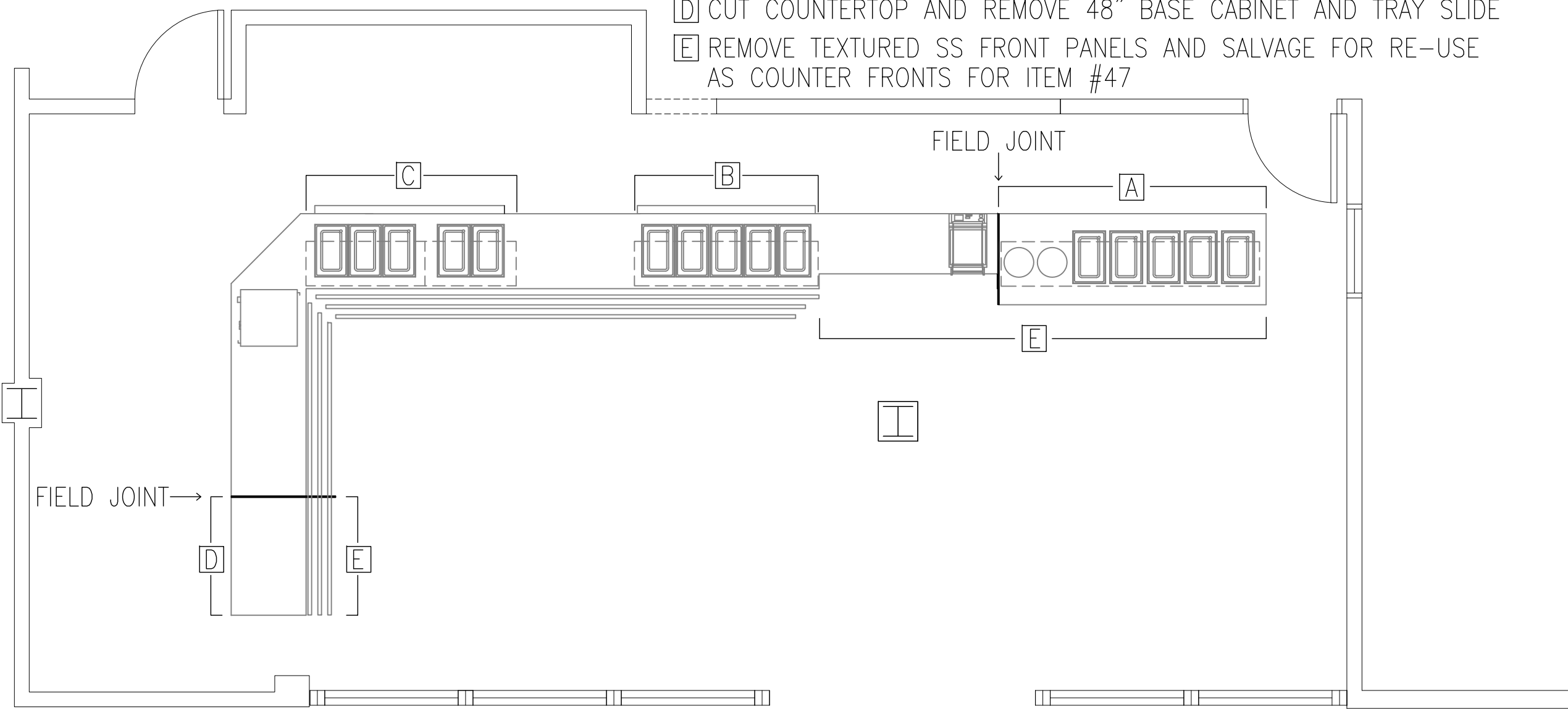
PROJECT NO:	1401	SHEET NO.	
SCALE:	1 1/2" = 1'-0"		

A4.1



1 FOODSERVICE EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"

- [A] REMOVE APPROXIMATELY 108" LONG COLD PAN AND DISPLAY STAND
[B] REMOVE APPROXIMATELY 78" LONG COUNTER PROTECTOR, SNEEZE GUARD AND LIGHT
[C] REMOVE APPROXIMATELY 84" LONG COUNTER PROTECTOR, SNEEZE GUARD AND LIGHT
[D] CUT COUNTERTOP AND REMOVE 48" BASE CABINET AND TRAY SLIDE
[E] REMOVE TEXTURED SS FRONT PANELS AND SALVAGE FOR RE-USE AS COUNTER FRONTS FOR ITEM #47



2 COUNTER DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

FOOD SERVICE EQUIPMENT

ITEM NUMBER	QUANTITY	ITEM DESCRIPTION
1	1	REFRIGERATION SYSTEM
2	-	OPEN NUMBER
3	-	OPEN NUMBER
4	1	SS WORK TOP (CAP)
5	2	HAND SINKS
6	1	STEAMER
7	-	OPEN NUMBER
8	1	CONVECTION OVEN, DOUBLE
9	1	DECK OVEN, SINGLE
10	1	INDUCTION BURNER
11	1	FIRE SUPPRESSION SYSTEM
12	1	WORK TABLE W/ DRAWER
13	1	WORK TABLE W/ DRAWER
14	1	RAISED RAIL REFRIGERATOR
15	1	REFRIGERATOR
16	LOT	FAUCETS
17	1	FRYERS
18	1	GRIDDLE
19	1	FOOD WARMER
20	-	OPEN NUMBER
21	1	FIRE SUPPRESSION SYSTEM
22	1	RAISED RAIL REFRIGERATOR
23	2	SNEEZE GUARDS
24	1	SNEEZE GUARD
25	1	PASS THRU REFRIGERATOR
26	1	WORK COUNTER W/ SINK
27	1	ICE CHEST
28	1	WALL SHELF
29	1	RAISED RAIL REFRIGERATOR
30	LOT	GASKETS / LIGHTS
31	2	BLENDERS
32	1	BLENDER RINSER
33	1	SOUP / SALAD BAR
34	2	COLD PANS
35	1	HOT FOOD WELL
36	1	SNEEZE GUARD
37	1	BEVERAGE / CASHIER COUNTER
38	1	REFRIGERATED COUNTER CASE
39	1	DISPLAY SHELF
40	1	DISPOSER
41	1	POS SYSTEM - BY OWNER
42	-	OPEN NUMBER
43	-	OPEN NUMBER
44	-	OPEN NUMBER
45	-	OPEN NUMBER
46	-	OPEN NUMBER
47	1	TRAY SLIDE & COUNTER FRONTS
48	1	SS COUNTER TOP FILLER PIECE
		EXISTING EQUIPMENT TO BE RE-USED
A	1	BAG IN BOX
B	1	PANNINI GRILL
C	1	PIZZA CABINET
D	1	ICE / SODA DISPENSER
E	1	COFFEE BREWER
F	1	AIRPOTS, COFFEE STAND
G	1	SLICER
H	2	SHELVING
I	-	NOT USED
J	1	RANGE / OVEN (K-K)

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CAPITAL PLANNING

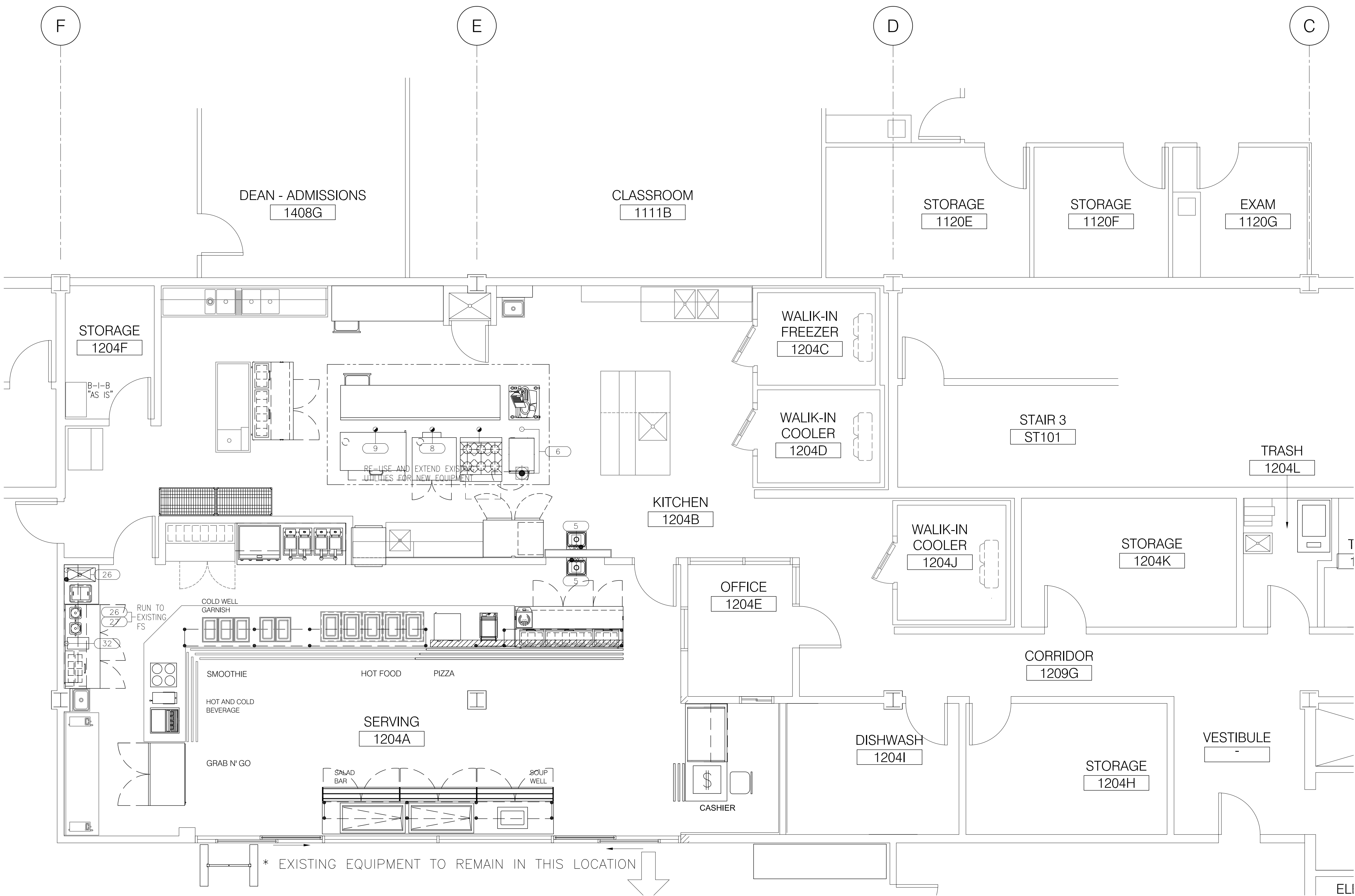
AND CONSTRUCTION

KITCHEN AND SERVERY RENOVATIONS

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FOODSERVICE EQUIPMENT PLAN

FS1



3 FOODSERVICE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

TRADE CONTRACTORS NOTES

1. ALL CONNECTIONS SHOWN ARE THE APPROXIMATE CONNECTION LOCATIONS REQUIRED FOR THE FOOD SERVICE EQUIPMENT BEING FURNISHED BY THE KITCHEN CONTRACTOR AND ALLOWANCES MUST BE MADE TO EXTEND TO THE FINAL CONNECTION.
2. ANY CHANGES TO THESE LOCATIONS SHOULD BE VERIFIED WITH THE ARCHITECT OR FOOD SERVICE CONTRACTOR.
3. ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, COLUMNS AND FLOORS. WHERE BASE SIZES ARE SHOWN, THEY SHALL INCLUDE FINISHED SURFACES.
4. TRADES ARE TO MAKE THE FINAL CONNECTIONS FROM ELECTRICAL SERVICE LOCATIONS INDICATED TO EQUIPMENT PER LOCAL CODES.
5. FOR ADDITIONAL INFORMATION REFER TO DETAIL DRAWINGS, MANUFACTURERS SHOP DRAWINGS, SPECIFICATIONS, AND BROCHURE BOOK.
6. VARIOUS TRADES TO BE RESPONSIBLE FOR THE INSTALLATION & FINAL CONNECTION OF ELECTRICAL & PLUMBING COMPONENTS (FAUCETS, WASTES, CONTROL PANELS, ETC.) PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
7. TRADES SHALL PROVIDE OUTLETS IN EQUIPMENT AS CALLED FOR IN THE FIELD AND DO ALL CONTROL WIRING.
8. VARIOUS TRADES TO FURNISH ANY ADDITIONAL HARDWARE REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT SUCH AS VALVES, STOPS, TRAPS, DISCONNECT SWITCHES AND WIRING TO CONTROL EQUIPMENT LIKE SODA AND REMOTE COMPRESSORS, FIRE SYSTEM AND DISPOSERS AS REQUIRED.
9. TRADES SHALL FURNISH CONNECTIONS TO EQUIPMENT SETTING ON COUNTERS THAT DO NOT COME WITH CORD & PLUGS, FROM OUTLET BOX OR RECEPTACLE.
10. TRADES TO CO-ORDINATE W/ FIRE PROTECTION CONTRACTOR AND INSTALL SHUNT TRIPS IN ELECTRICAL PANELS TO SHUT OFF COOKING EQUIPMENT ITEMS IN CONJUNCTION WITH FIRE SYSTEMS AND RUN TO FIRE ALARM AND VALVES.
11. TRADES TO CO-ORDINATE W/FIRE PROTECTION CONTRACTOR AND INSTALL AUTOMATIC FIRE GAS SHUT OFF VALVE IN LINE AND WIRE VALVE TO CONTROL PANEL IF REQUIRED. KITCHEN EQUIPMENT CONTRACTOR TO ADVISE TRADES IF MECHANICAL OR SOLENOID SHUT-OFF VALVE IS BEING PROVIDED.
12. TRADES TO PROVIDE OCTAGONAL 'J' BOXES (+54") WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING FOR FIRE PROTECTION SYSTEM REMOTE PULLS. VERIFY LOCATIONS WITH PROPER AUTHORITY.
13. TRADES TO PROVIDE AND INSTALL GAS PRESSURE REGULATOR VALVE FROM 10 LBS. TO 6" W.C. TO INSURE EQUIPMENT TO OPERATE AT PROPER GAS PRESSURE.
14. ALL DIMENSIONS MUST BE VERIFIED AND AGREE WITH THE LATEST ARCHITECTURAL PLAN.
15. TRADES TO VERIFY WITH OWNER/OPERATOR REQUIREMENTS FOR CASH SYSTEM AND TO SUPPLY ALL NECESSARY COMPONENTS FOR ITS PROPER OPERATION.
16. TRADES TO VERIFY W/MECHANICAL ENGINEER AND LOCAL CODES ALL REQUIRED COMPONENTS (SUCH AS GREASE TRAPS, VACUUM BREAKERS ETC.) FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT AND TYPE OF DRAIN CONNECTIONS REQUIRED AND INSTALL ACCORDINGLY.
17. TRADES TO SUPPLY AND INSTALL ALL REQUIRED PRESSURE REDUCING AND REGULATING VALVES REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT.
18. ELECTRICAL OUTLETS AND PIPING ROUGHED UP UNDER ISLAND EQUIPMENT TO BE STUBBED UP A MAXIMUM OF 4" OR LESS NOT TO INTERFERE WITH INSTALLED EQUIPMENT. ALL FLOOR OPENINGS TO BE SEALED WATER TIGHT.
19. VERIFY W/EQUIPMENT MANUFACTURER PROPER PLUMBING CONNECTIONS AND REQUIREMENTS FOR COFFEE MAKERS, BEVERAGE DISPENSERS, AND ICE MAKERS. PROVIDE BACKFLOW AND/OR RPZ VALVES AS REQUIRED BY LOCAL CODES.
20. ALL CONNECTIONS, ELECTRICAL AND PLUMBING, SHALL BE PER STATE AND LOCAL CODES.
21. ARCHITECT, ENGINEER, & BUILDING TRADES TO VERIFY BUILDING CODE IN REGARD TO ACCEPTABLE DRAIN PIPE MATERIAL. FOODSERVICE DRAINS NEED TO ACCOMMODATE TEMPERATURES ABOVE 212°F DRAINAGE SYSTEM NEEDS TO BE DESIGNED ACCORDINGLY.
22. ALL CURBS (I.E. MASONRY BASES FOR FOODSERVICE EQUIPMENT, ROOF CURBS FOR FANS & REFRIGERATION RACKS ETC.) AS REQUIRED, ARE NOT PROVIDED BY THE K.E.C.



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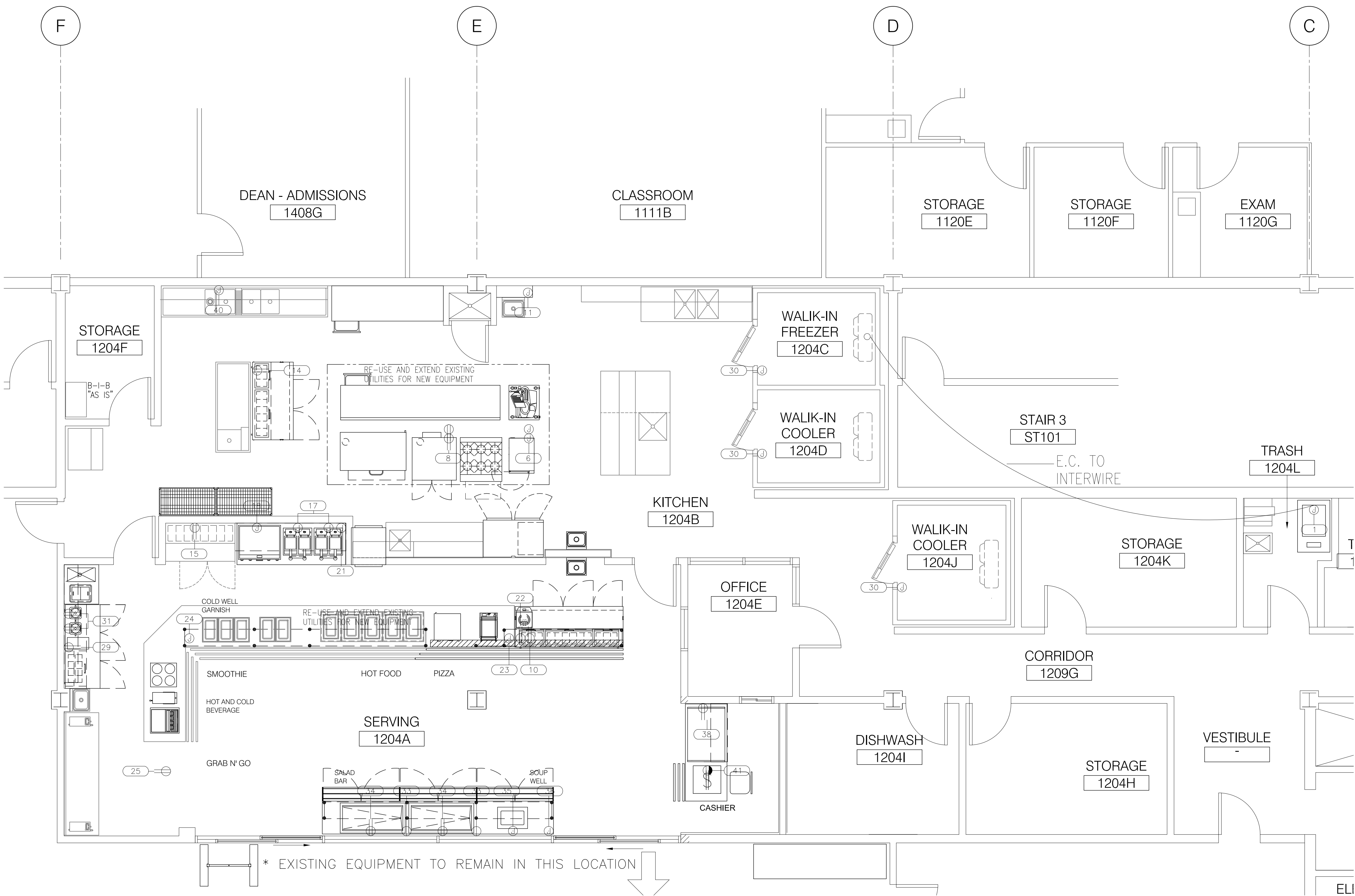
FOODSERVICE PLUMBING PLAN

PROJECT NO. 1401

DATE

SHEET NO.

FS3



4 FOODSERVICE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

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FOODSERVICE
ELECTRICAL PLAN


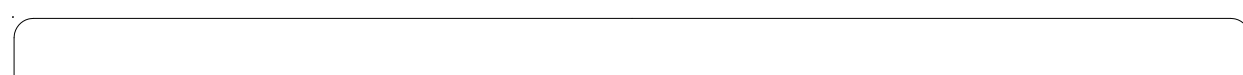
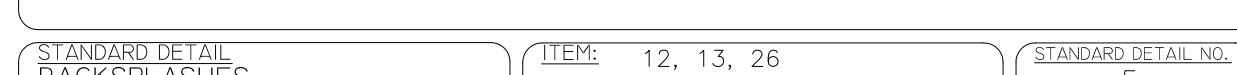
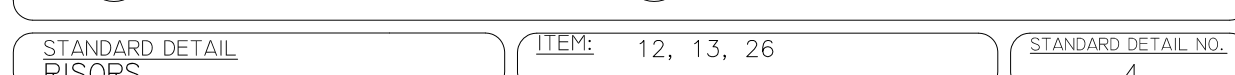
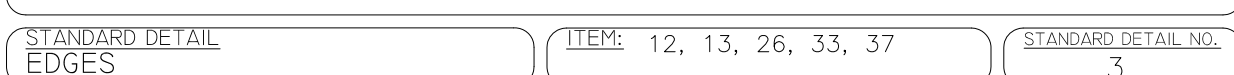
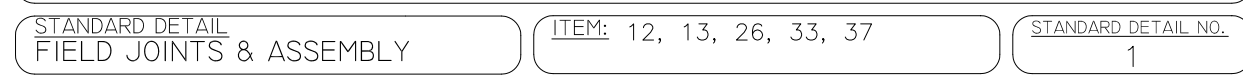
PROJECT NO. 1401

SCALE:

FS4

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KITCHEN EQUIPMENT



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FOODSERVICE EQUIPMENT DETAILS

FS5

VENTILATION SYMBOLS			MECHANICAL SYMBOLS			
SINGLE LINE	DOUBLE LINE	DESCRIPTION	SYMBOL	DESCRIPTION		
		NEW DUCTWORK - WxH AIRWAY DIMENSIONS		PRESSURE GAUGE AND COCK		
		DUCT SECTION - SUPPLY UP		STRAINER		
		DUCT SECTION - SUPPLY DOWN		STRAINER W/BLOW-OFF VALVE		
		DUCT SECTION - RETURN OR EXHAUST UP		THERMOMETER		
		DUCT SECTION - RETURN OR EXHAUST DOWN		PRESSURE / TEMPERATURE SENSOR		
		EXISTING DUCT		CAP		
		DUCT / EXISTING WORK TO BE REMOVED		UNION		
		INCLINED RISE W/RESPECT TO AIR FLOW		ANCHOR W/ALIGNMENT GUIDES		
		INCLINED DROP W/RESPECT TO AIR FLOW		EXPANSION JOINT		
		FLEXIBLE CONNECTION TO EQUIPMENT		FLEXIBLE CONNECTION		
		LOUVER & SCREEN W/D GROSS OPENING		PRESSURE RED. VALVE		
		FLEXIBLE DUCT		RELIEF VALVE		
		VOLUME DAMPER WITH QUADRANT LOCKING		TRIPLE DUTY VALVE		
		MOTORIZED DAMPER		CHECK VALVE (SP) SPRING		
		SPLITTER DAMPER		BALANCING VALVE		
		BACK DRAFT DAMPER (GRAVITY)		GLOBE VALVE		
		FIRE DAMPER, SLEEVE & ACCESS DOOR		GATE VALVE		
		AIR EXTRACTING VANES		{ BUTTERFLY VALVE - WHEN DIA. > 2"		
		TURNING VANES, DOUBLE THICKNESS AIRFOIL TYPE		{ BALL VALVE - WHEN DIA. < 2"		
		RISER MARK		VALVE WITH MEMORY STOP		
		THERMOSTAT (G) W/GUARD		GAS COCK		
		SENSOR		CONTROL VALVE, 2-WAY		
		HUMIDISTAT		CONTROL VALVE, 3-WAY		
		CONNECTION TO EXISTING PIPING, DUCTWORK, ETC.		CIRCUIT SETTER		
		EXHAUST OR RETURN AIR REGISTER		CODE BACKFLOW PREVENTOR		
		ROUND CEILING SUPPLY DIFFUSER		UNIT HEATER - VERTICAL		
		RECTANGULAR CEILING SUPPLY DIFFUSER		UNIT HEATER - HORIZONTAL		
		SIDE WALL SUPPLY REGISTER W/VOLUME DAMPER		PIPE DOWN		
		DOOR GRILLE W/BUILT-IN FIRE DAMPER		PIPE UP		
		LINEAR DIFFUSER W/BOOT, NO VOLUME DAMPER IN BOOT.		EXISTING PIPING TO BE REMOVED		
		AIR VALVE		EXISTING PIPING TO REMAIN		
		TERMINAL UNIT-VARIABLE VOLUME INTEGRAL DIFFUSER		NEW PIPING		
		UNDERCUT DOOR MINIMUM 1"		PIPING ASSEMBLY - SEE DETAIL		
		ROOF MOUNTED POWER OR GRAVITY ROOF VENTILATOR		VENT (MANUAL OR AUTOMATIC)		
		ROOF MOUNTED AIR INTAKE		FLOW CONTROL FITTING		
		ELECTRIC DUCT HEATER		FLOW INDICATOR		
				FLOW SWITCH		
				PRESSURE SWITCH		
				BASE MOUNTED PUMP - SEE DETAIL		
				IN-LINE PUMP - SEE DETAIL		
				EQUIPMENT (SPECIFIED BY TAG BELOW)		
				EQUIPMENT TAG W/NUMBER		
				DRAIN LINE		
				GAS LINE		
				VENT LINE		
				HOT WATER HEATING SUPPLY		
				HOT WATER HEATING RETURN		
				CHILLED WATER HEATING SUPPLY		
				CHILLED WATER HEATING RETURN		
				REFRIGERANT SUCTION LINE		
				REFRIGERANT LIQUID LINE		
				STEAM SUPPLY LINE		
				CONDENSATE RETURN LINE		
				CONDENSER WATER LINE		
CONTROL SYMBOLS			ABBREVIATIONS			
SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DIGITAL INPUT		FD	FIRE DAMPER	GPR	GEOEXCHANGE PIPE RETURN
	ANALOG INPUT		H.P.	HORSE POWER	CAI	COMBUSTION AIR INTAKE
	DIGITAL OUTPUT		EXP VLV	EXPANSION VALVE	RBD	ROUND BACKDRAFT DAMPER
	ANALOG OUTPUT		MBH	THOUSAND BRITISH THERMAL UNITS	TYP	TYPICAL
	CONTROL VALVE (ELECTRICAL)		MFG.	MANUFACTURER	S.A.	SUPPLY AIR DUCT
	CONTROL VALVE (PNEUMATIC)		MTD.	MOUNTED	R.A.	RETURN AIR DUCT
	DIFFERENTIAL PRESSURE SWITCH		PH.	PHASE	E.A.	EXHAUST AIR DUCT
	VARIABLE SPEED CONTROLLER		R.P.M.	REVOLUTIONS PER MINUTE	O.S.A.	OUTSIDE AIR
	NORMALLY OPEN		T-STAT	THERMOSTAT	C.D.	CEILING DIFFUSER
	NORMALLY CLOSED		V	VOLTS	C.F.M.	CUBIC FEET PER MINUTE
	END SWITCH		VEL	VELOCITY	A.F.F.	ABOVE FINISHED FLOOR
	MOTOR OPERATED DAMPER		W.C.	INCHES IN WATER COLUMN	A.F.G.	ABOVE FINISHED GRADE
	VELOCITY SENSOR		TG	TRANSFER GRILLE	CAP.	CAPACITY
	TEMPERATURE SENSOR		DN	DOWN	CLG.	CEILING
	HUMIDITY SENSOR		CFH	CUBIC FEET PER HOUR	CONN.	CONNECTION
	DIFFERENTIAL PRESSURE SENSOR		GFS	GEOEXCHANGE PIPE SUPPLY		
	SMOKE DETECTOR					

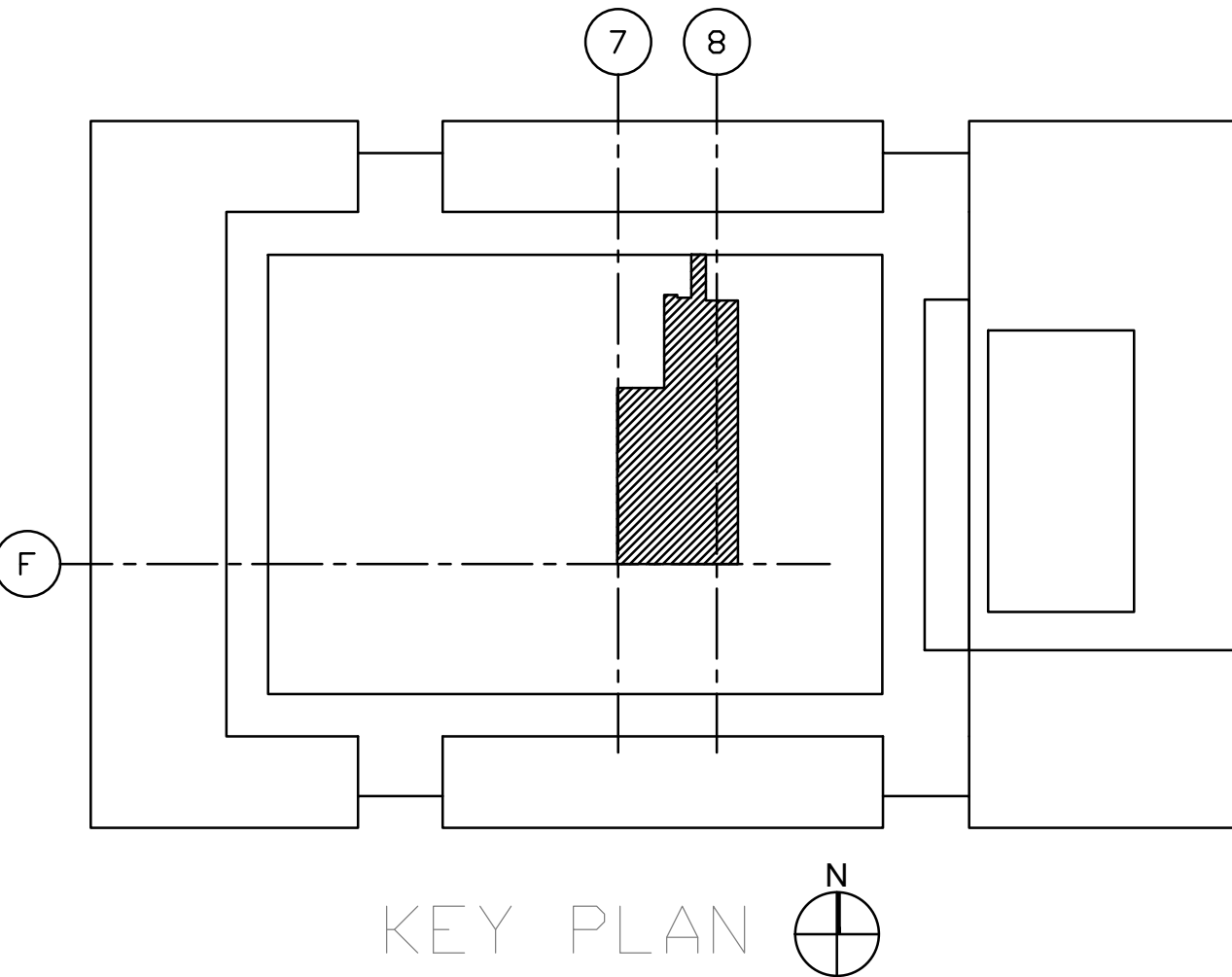
NOTE: NOT ALL SYMBOLS ARE APPLICABLE TO THIS PROJECT.

GENERAL COORDINATION NOTES:

- EACH TRADE CONTRACTOR SHALL VISIT CONSTRUCTION SITE PRIOR TO BIDDING, EXAMINE SCOPE AND CONDITIONS OF OTHER CONTRACT WORK, EXAMINE EXISTING CONDITIONS AND ALL INTERFERENCES AND REQUIRED COORDINATION IN ORDER TO INCLUDE EFFECT OF SAD CONDITIONS IN THEIR BID. BID DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL REQUIRED RELOCATIONS, OFFSETS, CHANGE IN ASPECT RATIOS, OR ROUTING CHANGES REQUIRED TO INTEGRATE WORK WITH ALL OTHER CONDITIONS OR TRADES. WORK INSTALLED BEFORE COORDINATING SO AS TO CAUSE INTERFERENCES WITH OTHER TRADES SHALL BE REMOVED AND REWORKED WITHOUT COST TO OWNER. COST OF PROVIDING SUCH RELOCATIONS, OFFSETS, SIZE, CHANGES, REROUTING, ETC. SHALL BE INCLUDED IN BID. CODE CONFORMING SCALED (1/4") COORDINATED DRAWINGS SHALL BE PREPARED BY EACH TRADE TO FACILITATE AND VERIFY FIT AND CONGRUENCE OF THEIR INSTALLATION WITH OTHER TRADES.
- WHERE ADDITIONAL DETAILS, DIAGRAMS, EQUIPMENT DATA, AND ISOMETRICS ARE REQUIRED BY BUILDING DEPARTMENT OR CODE AUTHORITIES FOR PERMIT OR APPROVAL, CONTRACTOR SHALL PROVIDE SAME AT NO ADDITIONAL COST.
- BUILDING PLANS SHOWN ARE COMPILED FROM SOURCES BELIEVED TO BE ACCURATE. HOWEVER, THE INFORMATION SHOWN ON THESE PLANS IS SCHEMATIC AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROPER DIMENSIONS, SIZES, SYSTEM VOLTAGES, QUANTITIES AND EXTENT OF WORK.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR COORDINATION AND EXTENT OF THE WORK OF THE VARIOUS TRADES AND IMPACT ON THEIR WORK.
- WITH THE APPROVAL OF THE ARCHITECT AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE MODIFICATIONS IN THE WORK, INCLUDING REROUTING AS REQUIRED BY INTERFERENCE WITH STRUCTURAL, GENERAL AND WORK OF OTHER TRADES FOR PROPER EXECUTION OF THE WORK.
- REFER TO THE ARCHITECTURAL DRAWINGS, FIELD CONDITIONS AND DETAILS FOR EXACT LOCATION OF PARTITIONS.
- CUTTING AND PATCHING FOR THEIR WORK SHALL BE PERFORMED BY EACH TRADE CONTRACTOR UNLESS NOTED OTHERWISE.

GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH BUILDING STANDARDS AND ALL APPLICABLE CODES.
- MEDIUM/LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.
- PROVIDE MANUAL DAMPER ON ALL LOW PRESSURE SUPPLY BRANCH TAKE-OFF OF DUCTWORK.
- ALL DUCT SIZES SHOWN SHALL BE CLEAR INSIDE DIMENSIONS.
- DIFFUSERS, REGISTERS ARE AS SCHEDULED IN THE DRAWING. CONTRACTOR TO VERIFY AND COORDINATE WITH ARCHITECT TYPE OF CEILING TO DETERMINE FRAME TYPE.
- BLANK-OFF WITH BLACK PAINTED PANEL WHERE SHOWN. DO NOT PAINT EXPOSED DUCTS OR REGISTERS.
- PROVIDE UL APPROVED FIRE-DAMPERS.
- DUCT LINING SHALL BE MIN 2LB DENSITY TEXTILE TYPE, TREATED TO PREVENT EROSION. LINING SHALL BE GLUED WITH 100% COVERAGE OF ADHESIVE AND PINNED TO DUCT ON 12" CENTERS IN BOTH DIRECTIONS AND WITHIN 3" OF EDGES. EDGES SHALL BE COATED WITH ADHESIVE AND BUTTED TOGETHER TIGHTLY SO THERE IS A STRAIGHT SURFACE WITH NO GAPS. PROTECT EXPOSED LEADING EDGES WITH SHEET METAL NOSING.
- FLEXIBLE DUCTWORK:
FINAL CONNECTIONS TO ALL BOOT ASSEMBLIES, DIFFUSERS AND REGISTERS SHALL BE MADE WITH CODE-APPROVED INSULATED FLEXIBLE DUCT, THERMAFLEX TYPE M-KE OR AS MANUFACTURED BY FLEXMASTER OR GENFLEX. FLEXIBLE DUCTWORK SHALL NOT BE USED IN DUCTWORK AS AN ELBOW. FLEXIBLE DUCTWORK SHALL BE STRAIGHT WITH ONLY MINOR OFFSETS NECESSARY FOR FIELD CONDITIONS. FLEXIBLE DUCTWORK IN LOW OR HIGH VELOCITY PORTIONS OF SUPPLY DUCT SYSTEMS SHALL BE TYPE 3 - INSULATED FLEXIBLE DUCT OR AS MANUFACTURED BY FLEXMASTER THERMOFLEX OR GENFLEX. FLEXIBLE DUCTWORK IN RETURN SYSTEMS SHALL BE INSULATED FLEXIBLE DUCT THERMAFLEX TYPE MK-E OR AS MANUFACTURED BY FLEXMASTER N145 THERMAFLEX OR GENFLEX. FLEXIBLE DUCTWORK SHALL NOT EXCEED 6'-0" IN LENGTH IN EITHER MEDIUM OR LOW VELOCITY SYSTEMS. SHALL BE PROPERLY SUPPORTED TO PREVENT KINKS OR SAGS, AND SHALL NOT BE USED AS AN ELBOW. CONNECTIONS SHALL BE SECURED WITH WRAP-LOCK CLAMPS AND SEALED WITH DUCT SEALER. INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES WHICH MAY RESTRICT TYPE, LENGTH AND USE OF FLEXIBLE DUCT.
E. FUEL GAS PIPING AND CONTROLS MUST CONFORM TO THE INTERNATIONAL FUEL GAS CODE(IFGC), CHAPTER 4 (WITH MODIFICATIONS AS NOTED IN ARTICLE 14). [18-28-1400]
F. GAS PIPING MUST BE SIZED IN ACCORDANCE WITH IFGC TABLES 402.(1) THROUGH 402.3(34). [IFGC 402.3]
G. THE MAXIMUM DESIGN OPERATING PRESSURE FOR GAS PIPING SYSTEMS LOCATED INSIDE BUILDINGS SHALL NOT EXCEED 5 PSIG (SOME EXCEPTIONS ARE NOTED). [IFGC 402.5]
H. GAS PIPING MATERIALS MUST CONFORM TO THE GAS PIPING & TUBING MATERIAL MATRIX (LFGC 403 REQUIREMENTS). [IFGC 403]
I. PIPING IN CONCEALED LOCATIONS MUST CONFORM TO THIS IFGC 404.3. [IFGC 404.3]
J. MINIMUM REQUIRED BURIAL DEPTH FOR UNDERGROUND PIPING SYSTEMS MUST CONFORM TO IFGC 404.9. (MINIMUM 12 INCHES BELOW GRADE). [IFGC 404.9]
K. GAS PIPES MUST BE SLOPED AT 1/4 INCH IN EVERY 15 FEET. [IFGC 408.1]



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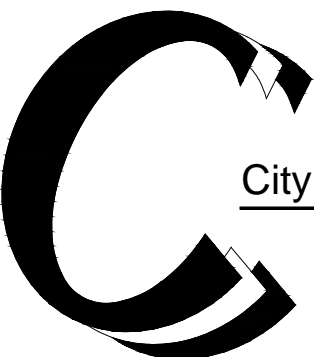
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KITCHEN AND SERVRY
RENOVATIONS

RICHARD J. DALEY COLLEGE
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SHEET TITLE

MECHANICAL NOTES &
SYMBOLS

PROJECT NO:

SHEET NO:

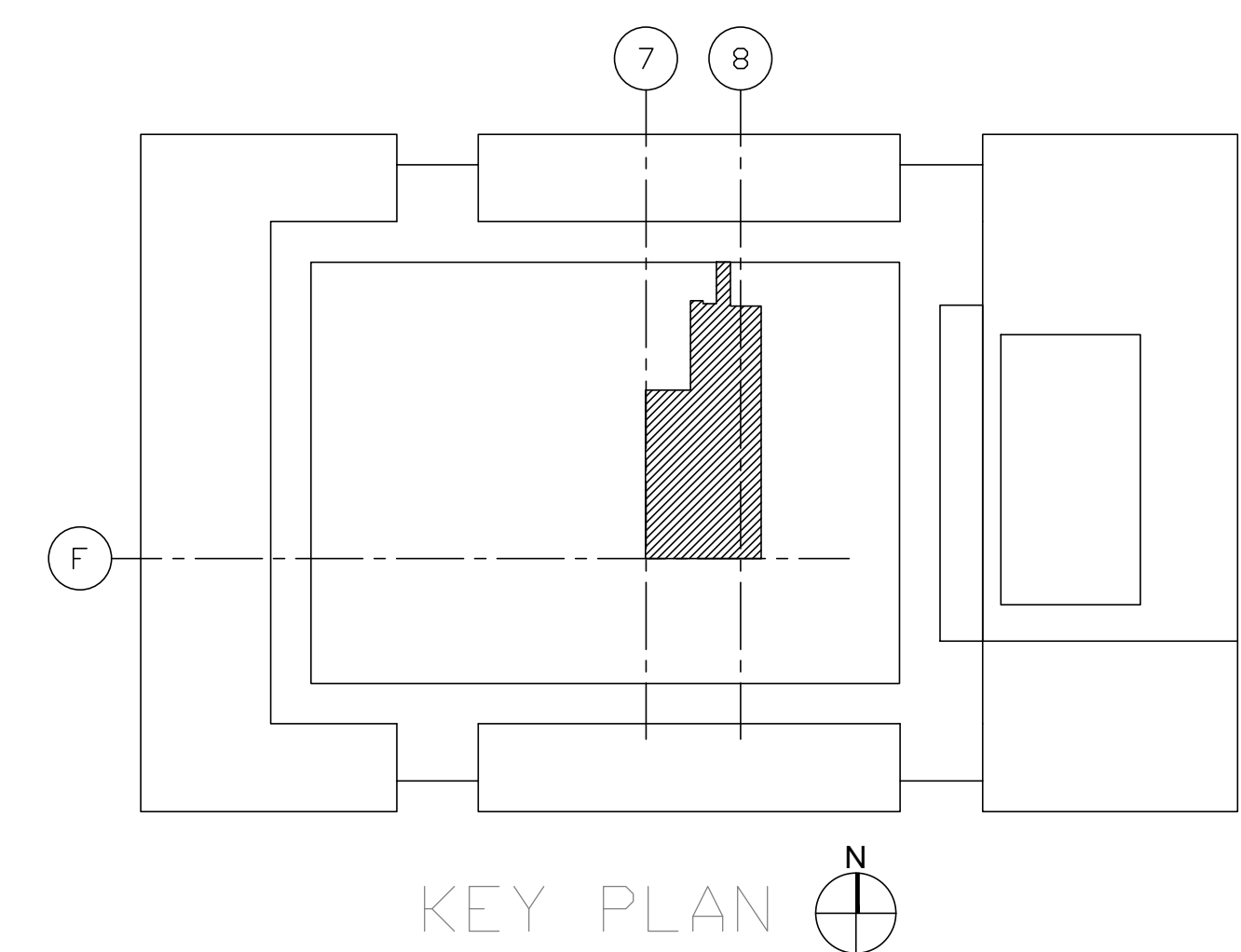
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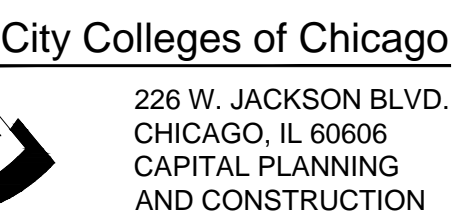
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2	05-16-14	75% CONSTRUCTION DOCUMENTS
1	04-18-14	SCHEMATIC DESIGN
NO.	DATE	REVISIONS



KITCHEN AND SERVERY RENOVATIONS

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SHEET TITLE

DEMO MECHANICAL PLAN

PROJECT NO:	SHEET NO.
SCALE:	M1.0

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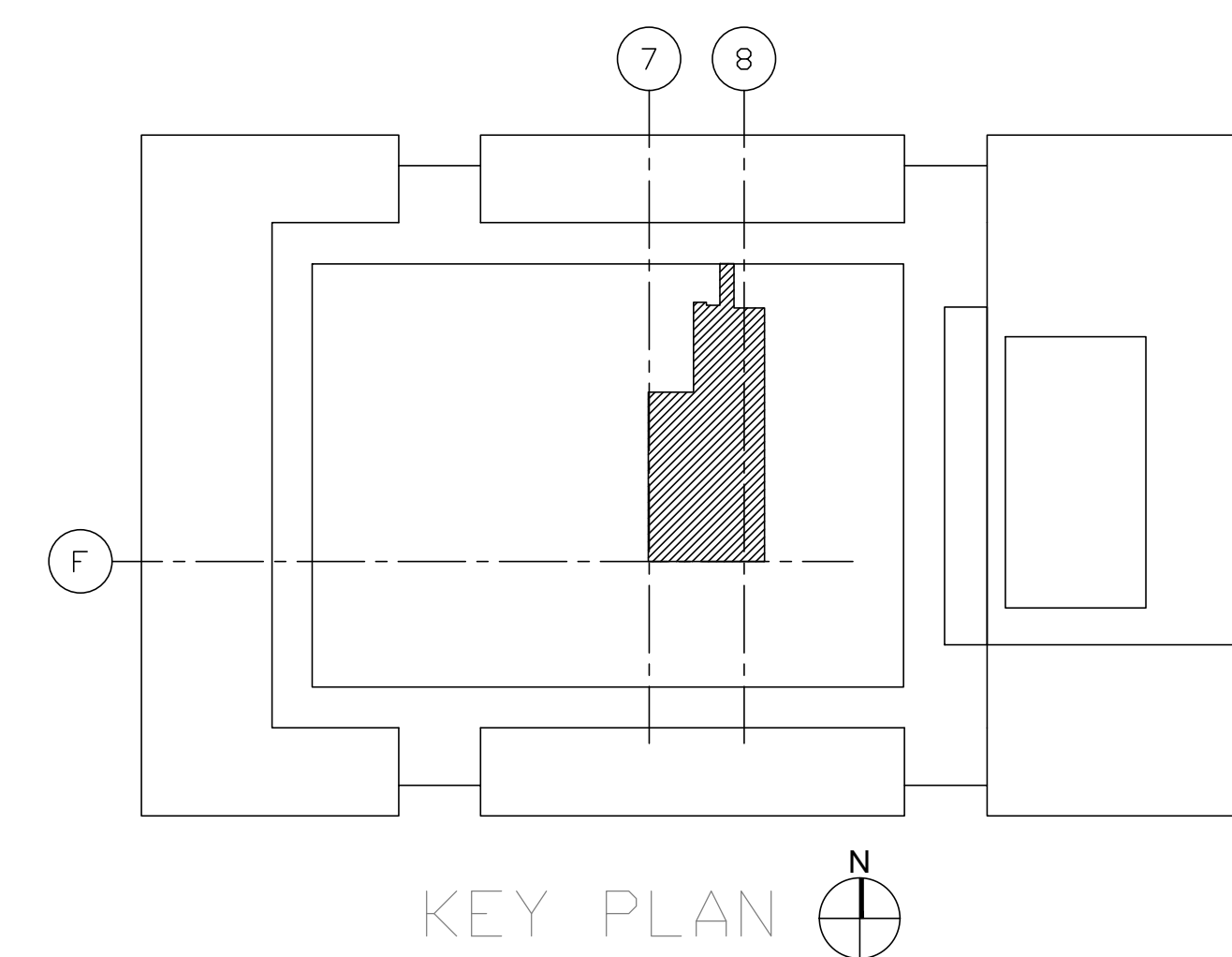
- ① PROVIDE NEW DIFFUSERS, EXHAUST/RETURN GRILLES AND TRANSFER GRILLES. PROVIDE NEW DUCTWORK FROM DIFFUSERS AND GRILLES AND CONNECT TO EXISTING DUCT MAIN COMPLETE AS REQUIRED. FIELD VERIFY EXISTING DUCTWORK LOCATION.
- ② PROVIDE NEW GAS CONNECTIONS TO NEW KITCHEN COOKING EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
- ③ CONNECT EXTEND AND NEW 10x10 EXHAUST DUCTWORK TO EXISTING DISHWASHER EXHAUST COMPLETE AS REQUIRED. FIELD VERIFY EXACT LOCATION.

NOTES:

1. REFER TO MECHANICAL FLOOR PLANS FOR CAPACITIES AND SIZES UNLESS OTHERWISE NOTED IN THE SCHEDULES AND/OR PLANS. FACTORY INSULATED W/R-6 FOIL-BACKED INSULATION.

2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF EACH CEILING MOUNTED AIR DEVICE AND FOR TYPE OF CEILING GRID. REFER TO ARCHITECTURAL SPECS FOR FINAL FINISHES AND COLORS ON DIFFUSERS AND GRILLE.

1 PARTIAL LEVEL 1 MECHANICAL PLAN - BUILDING U
SCALE: 1/4" = 1'-0"



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SHEET TITLE

NEW WORK MECHANICAL PLAN

PROJECT NO. _____

SCALE:

M2.0

GENERAL ELECTRICAL NOTES (APPLICABLE TO ALL ELECTRICAL DRAWINGS)

1. DEFINITIONS:

"FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION.

"INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.

"PROVIDE" MEANS TO "FURNISH" AND "INSTALL".

"FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

2. CODES:

THE WORK SHALL COMPLY WITH CITY OF CHICAGO BUILDING CODE. THIS WOULD INCLUDE, BUT IS NOT LIMITED TO, THE CURRENT NFPA, ANSI, OSHA, ADA, AND ALL OTHER LOCAL MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT DOCUMENTS NOT WITHSTANDING, THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

3. INTERPRETATION OF THE DOCUMENTS

THE CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED, FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS. THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.

4. COORDINATION

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES, WHERE THERE ARE POTENTIAL CONFLICTS. THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.

5. SITE EXAMINATION

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

6. PERMITS

THE CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENCES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE ELECTRICAL WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

7. SAFETY

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

8. CONTRACTOR'S DRAWING REVIEW

ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. CONDUIT LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS. THE CONTRACTOR SHALL CONFIRM THAT CONDUIT LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

9. STATEMENT OF WORK

THE CONTRACTOR SHALL PROVIDE THE COMPLETE ELECTRICAL INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION

10. WORK PERFORMANCE REQUIREMENTS

ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING PRODUCT SPECIFICATIONS. ALL ROOF PENETRATIONS SHALL BE SEALED WATERTIGHT AT THE END OF EACH WORK DAY. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL TIMES. PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMFORT. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM EQUIPMENT RACK WITHOUT ADEQUATE PROTECTIVE MEASURES, AS DEEMED APPROPRIATE BY THE OWNER'S PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL CHECK, VERIFY AND LABEL PHASE ROTATION ANY TIME LEADS ARE CONNECTED TO A NEW OR EXISTING AC SERVICE, GENSET, RECTIFIER OR ANY MOTOR-EQUIPPED, 3-PHASE EQUIPMENT. ALL THREE-PHASE PANELS SERVING SINGLE-PHASE LOADS SHALL BE BALANCED WITHIN 10 PERCENT, USING AMMETER READINGS. MEASUREMENTS SHALL BE TAKEN AT THE END OF CONSTRUCTION AND AGAIN AFTER 30 DAYS IN SERVICE.

11. CUTTING AND PATCHING

ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.

12. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SCALED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER.

13. FIRESTOPPING

ALL PENETRATIONS IN WALLS, FLOORS, OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRESAFING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. ONLY PRODUCTS MANUFACTURED BY HILTI SHALL BE PREFERRED (NO SUBSTITUTIONS).

14. TEMPORARY POWER AND LIGHTING

THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR THIS WORK DURING CONSTRUCTION. TEMPORARY LIGHTING SHALL AT LEAST BE THE EQUAL OF (1)100-WATT FIXTURE EVERY 100 SQUARE FEET, WITH A MINIMUM ONE FIXTURE PER ROOM. TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL. COORDINATE TEMPORARY POWER REQUIREMENTS WITH THE OTHER TRADES AND PROVIDE ADEQUATE PROVISIONS. THE CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD.

15. PANELBOARDS

FOR PANELBOARDS IN WHICH WORK OCCURS PER THESE DOCUMENTS, SHALL BE PROVIDED WITH UPDATED-TYPEDWRITTEN DIRECTORIES. GIVEN ONLY FOR CLARITY AND QUANTITY, CIRCUIT NUMBERS SHOWN IN THE PLANS MAY NOT NECESSARILY REPRESENT ACTUAL CIRCUIT NUMBERS IN PANELBOARD. FROM FLUSH-MOUNTED PANELBOARDS, STUB-OUT ONE 3/4" CONDUIT INTO THE CEILING CAVITY FOR EACH SET OF 3 SPARES AND/OR SPACES OR FRACTION THEREOF.

16. CABLING

UNLESS NOTED OTHERWISE, ALL WIRE AND CABLE SHALL BE 600-VOLT COPPER CONDUCTORS WITH TYPE "THHN/THWN" INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR LIGHTING AND POWER CIRCUITS AND #14 AWG FOR CONTROL CIRCUITS. PROVIDE GROUNDING FOR CIRCUITS PER THE CBC. UNLESS SPECIFICALLY NOTED OTHERWISE IN THE PLANS, ALL CABLING FOR POWER RECEPTACLES SHALL BE (1) #12-(2) #12 (200K NEUTRAL) +1 #12 (GRD.) IN 3/4" C. NUMBERED CIRCUITS INDICATED ON PLANS ARE CREATED FOR THE CONVENIENCE OF DESIGN ONLY AND DO NOT NECESSARILY REPRESENT THE ACTUAL CIRCUIT NUMBERS IN THE BRANCH CIRCUIT PANELBOARDS. DESIGN INTENT MUST BE FOLLOWED THROUGHOUT.

17. CONDUIT/RACEWAY SYSTEMS

THE CONDUIT ROUTINGS INDICATED ARE ONLY DIAGRAMMATIC IN NATURE. FIELD CONDITIONS SHALL DICTATE THE CONTRACTOR'S EXACT CONDUIT ROUTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER THE NEC - CBC AND FOR COORDINATION WITH OTHER DISCIPLINES. ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS, SUCH AS TO FOLLOW STRUCTURAL SURFACE CONTOURS AND NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHALL BE RUN TOGETHER, IN GROUPING. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL AND/OR TO COLUMN AND BEAMS. ALL EXPOSED CONDUIT SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL. NO ADDITIONAL COST TO OWNER WILL BE INCURRED DUE TO LACK OF COORDINATION. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND MINIMUM SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. CONNECTORS AND COUPLINGS SHALL BE INSULATED-THROAT COMPRESSION TYPE ONLY. RIGID GALVANIZED-STEEL (RGS) CONDUIT SHALL BE USED WHEN CONDUIT IS INSTALLED IN OUTDOOR AREAS OR WHERE OTHERWISE EXPOSED TO PHYSICAL HARM. EMERGENCY SYSTEMS SHALL BE RUN IN SEPARATE RACEWAY/CONDUIT SYSTEM(S). A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS, WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY OR CABLE ARMOR/Sheath SHALL NOT BE USED AS THE PRIMARY EQUIPMENT GROUNDING CONDUCTOR. RACEWAY SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS AND SHALL BE BONDED AT ALL POINTS TO THE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH THE APPLICABLE PROVISIONS IN ARTICLE 250 OF THE CBC.

18. EQUIPMENT

ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS WORK SHALL BE NEW AND SHALL HAVE THE APPROPRIATE UL LISTING AND/OR FM APPROVAL. UNLESS NOTED OTHERWISE, DISCONNECT/SAFETY SWITCHES SHALL BE NON-FUSED HEAVY-DUTY 600-VOLT TYPE. INDOOR ENCLOSURES SHALL BE NEMA 1 AND OUTDOOR ENCLOSURES SHALL BE NEMA 3R.

19. MECHANICAL EQUIPMENT

ALL MECHANICAL EQUIPMENT WILL BE INSTALLED BY THE DIVISION 15 CONTRACTOR. COORDINATE THE EXACT LOCATION AND NATURE OF ANY REQUIRED ELECTRICAL CONNECTION TO BE PROVIDED FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN. VERIFY THE ELECTRICAL SERVICE REQUIRED FOR EACH ITEM OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FURNISHING SUCH POWER. REFER TO MECHANICAL DRAWING FOR MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. MAKE CONNECTION AND PROVIDE APPROPRIATE WIRE. CONDUIT AND OVERCURRENT PROTECTION FOR EQUIPMENT. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE CLEARANCES AS REQUIRED BY THE NEC. MOTORS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 15 WORK, WITH POWER CONNECTED UNDER DIVISION 16 WORK. FINAL CONNECTION SHALL BE MADE WITH SUITABLE LENGTH OF LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT. ALL MOTOR BRANCH CIRCUITS, ETC., SHALL BE FIELD-VERIFIED FOR PROPER SEQUENCE AND MOTOR ROTATION. PHASE SEQUENCE SHALL BE A-B-C (VIEWED FROM FRONT, LEFT TO RIGHT, TOP TO BOTTOM, FRONT TO REAR). REFER TO MECHANICAL DRAWINGS FOR MOTORS THAT ARE TO BE INTERLOCKED.

20. MISCELLANEOUS SUPPORTING MEMBERS

ALL ANGLES, CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, THREADED RODS, ETC., REQUIRED TO SUPPORT LIGHT FIXTURES, LADDER TRAY OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL THREADED RODS SHALL BE A MINIMUM OF 3/8" IN DIAMETER. ALL LIGHTING FIXTURES AT SUSPENDED CEILINGS SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH CBC.

GENERAL COORDINATION NOTES:

1. EACH TRADE CONTRACTOR SHALL VISIT CONSTRUCTION SITE PRIOR TO BIDDING, EXAMINE SCOPE AND CONDITIONS OF OTHER CONTRACT WORK, EXAMINE EXISTING CONDITIONS AND ALL INTERFERENCES AND REQUIRED COORDINATION IN ORDER TO INCLUDE EFFECT OF SAID CONDITIONS IN THEIR BID. BID DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL REQUIRED RELOCATIONS, OFFSETS, CHANGE IN ASPECT RATIOS, OR ROUTING CHANGES REQUIRED TO INTEGRATE WORK WITH ALL OTHER CONDITIONS OR TRADES. WORK INSTALLED BEFORE COORDINATING SO AS TO CAUSE INTERFERENCES WITH OTHER TRADES SHALL BE REMOVED AND REWORKED WITHOUT COST TO OWNER. COST OF PROVIDING SUCH RELOCATIONS, OFFSETS, SIZE, CHANGES, REROUTING, ETC. SHALL BE INCLUDED IN BID, CODE CONFORMING SCALED (1/4") COORDINATED DRAWINGS SHALL BE PREPARED BY EACH TRADE TO FACILITATE AND VERIFY FIT AND CONGRUENCE OF THEIR INSTALLATION WITH OTHER TRADES.

2. WHERE ADDITIONAL DETAILS, DIAGRAMS, EQUIPMENT DATA, AND ISOMETRICS ARE REQUIRED BY BUILDING DEPARTMENT OR CODE AUTHORITIES FOR PERMIT OR APPROVAL, CONTRACTOR SHALL PROVIDE SAME AT NO ADDITIONAL COST.

3. BUILDING PLANS SHOWN ARE COMPILED FROM SOURCES BELIEVED TO BE ACCURATE. HOWEVER, THE INFORMATION SHOWN ON THESE PLANS IS SCHEMATIC AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROPER DIMENSIONS, SIZES, SYSTEM VOLTAGES, QUANTITIES AND EXTENT OF WORK.

4. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR COORDINATION AND EXTENT OF THE WORK OF THE VARIOUS TRADES AND IMPACT ON THEIR WORK.



















5. WITH THE APPROVAL OF THE ARCHITECT AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE MODIFICATIONS IN THE WORK, INCLUDING REROUTING AS REQUIRED BY INTERFERENCE WITH STRUCTURAL, GENERAL AND WORK OF OTHER TRADES FOR PROPER EXECUTION OF THE WORK.

6. REFER TO THE ARCHITECTURAL DRAWINGS, FIELD CONDITIONS AND DETAILS FOR EXACT LOCATION OF PARTITIONS.

7. CUTTING AND PATCHING FOR THEIR WORK SHALL BE PERFORMED BY EACH TRADE CONTRACTOR UNLESS NOTED OTHERWISE.

8. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL EQUIPMENT, FIXTURES, CONTROLS AND DEVICES.

ELECTRICAL SYMBOLS

	SGR.	SINGLE GROUNDED RECEPTACLE
	DGR.	DUPLEX GROUNDED RECEPTACLE
	DDGR.	DEDICATED DUPLEX GROUNDED RECEPTACLE
	C.O.	CONVENIENCE OUTLET
	SPO.	SPECIAL PURPOSE OUTLET
	DR.	DIRECT WIRED CONNECTION
	ECS.	ELECTRICAL CONDUIT STUB UP
	JB.	JUNCTION BOX
	SW.	SWITCH
	TEL.	TELEPHONE
	JB ON EQUIPMENT	
	ANSUL FIRE PULL	
	KW.	KILOWATTS
	V.	VOLT
	AMP.	AMPS
	HP.	HORSEPOWER
	AFF.	ABOVE FINISHED FLOOR
	FA.	WIRED FROM ABOVE



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2	05-16-14	75% CONSTRUCTION DOCUMENTS
1	04-18-14	SCHEMATIC DESIGN

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CHICAGO, IL 60606
CAPITAL PLANNING
AND CONSTRUCTION

KITCHEN AND SERVRY
RENOVATIONS

RICHARD J. DALEY COLLEGE
7500 S. PULASKI CHICAGO, IL. 60652

SHEET TITLE

ELECTRICAL NOTES &
SYMBOLS

PROJECT NO.

SHEET NO.

E0.1



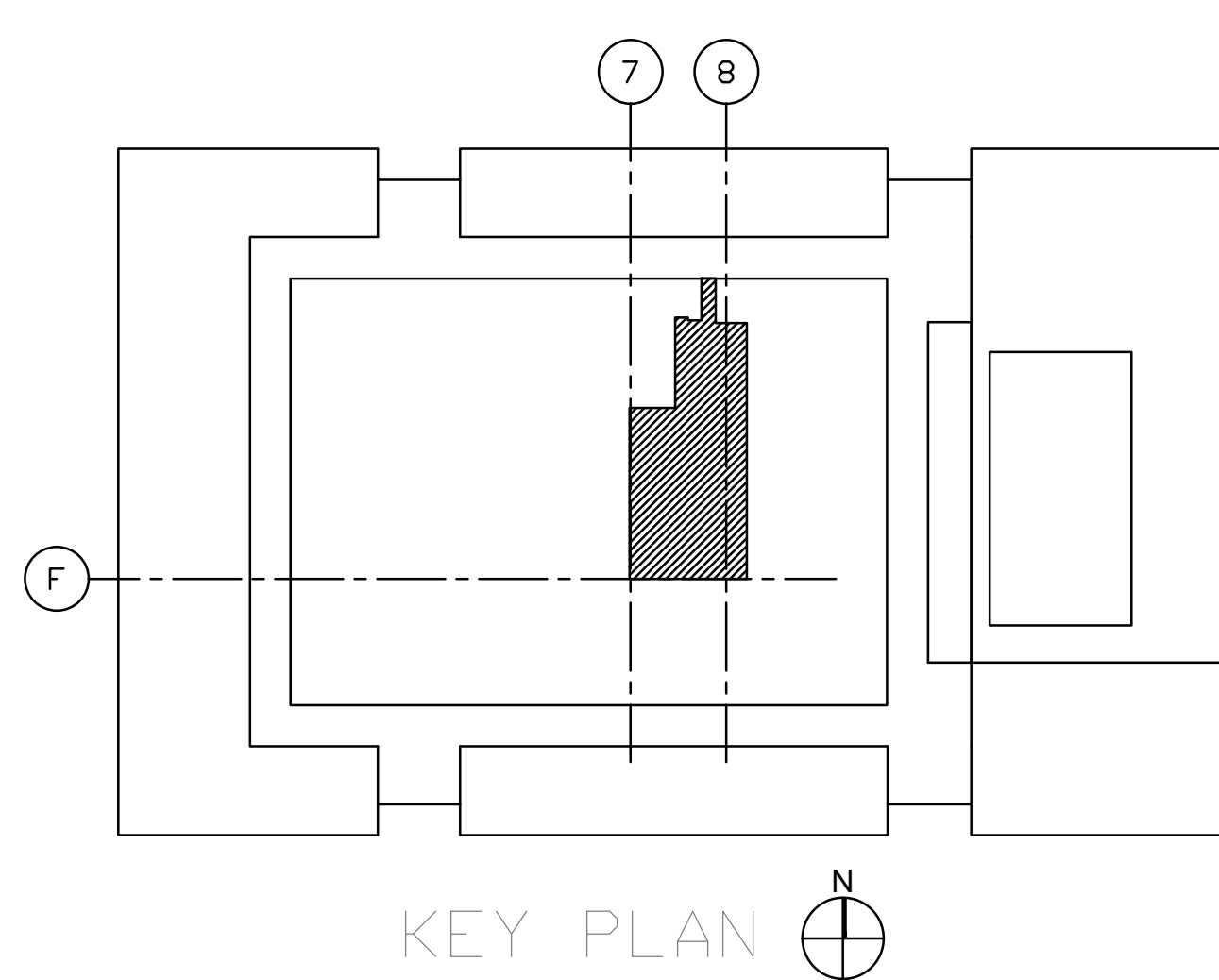
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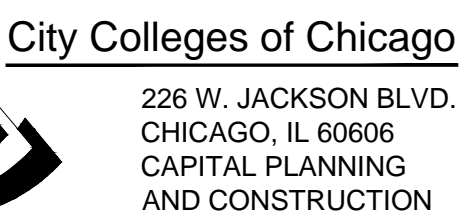
1. A COMPLETE AND ACCURATE DESCRIPTION OF ALL ELECTRICAL WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE, REROUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE ELECTRICAL AND TECHNOLOGY WORK. SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED AS INCLUDED UNDER THE CONTRACT.
2. THE ELECTRICAL DRAWINGS ARE GENERALLY INSTRUCTIVE OF THE ALTERATIONS WHICH INVOLVE THE EXISTING ELECTRICAL WORK. IT IS NOT INTENDED THAT SUCH ALTERATIONS BE LIMITED TO THESE INSTRUCTIONS.
3. WHERE EXISTING INTERIOR ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, IT SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE REVISION. ALL CONDUIT, WIRE, SURTES, HANGERS, ETC. ARE INCLUDED. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, ALL WIRE SHALL BE PULLED OUT OF CONDUIT AND THE CONDUIT ITSELF PLUGGED AT EACH END.
4. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL MATERIALS AND EQUIPMENT INCLUDING INTERIOR LIGHTING FIXTURES, TRACK LIGHTING, SWITCHES, POWER AND TELEPHONE/DATA RECEPTACLES, SECURITY EQUIPMENT, CONTROLS, CONDUIT, FITTINGS, WIRE, CABLE AND OTHER DEVICES WHICH ARE SCHEDULED TO BE DEMOLISHED AS A RESULT OF THE RENOVATION/ALTERATIONS. ALL ITEMS AND EQUIPMENT, MATERIALS, FIXTURES, ETC. SHALL BE PROPERLY DISPOSED OF.
5. LEGALLY DISPOSE ALL ITEMS REJECTED OR UNWANTED BY THE BUILDING OWNER. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, WITH THE EXCEPTION OF WIRE AND CABLE, AS GENERALLY OUTLINED IN THE PREVIOUS PARAGRAPH, SHALL BE REMOVED AS REQUIRED BY THE FOLLOWING PARAGRAPH. EXAMINE THE CONDITION OF SUCH MATERIALS AND EQUIPMENT AND MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE. PRESENT FINDINGS PERIODICALLY TO THE ARCHITECT WHO IN TURN WILL MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE SHALL BE NEW.
6. THIS CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO DEMOLITION, ALTERATIONS, OPERATION OR INSTALLATION OF NEW WORK.
7. THE ELECTRICAL CONTRACTOR SHALL UTILIZE EXTREME CARE WHEN ENCOUNTERING EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICES THAT ARE ENERGIZED FROM A SEPARATE SOURCE OTHER THAN THE ROOM, AREA, OR LEVEL UNDER THIS SCOPE OF WORK. IF SUCH CONDITIONS ARE ENCOUNTERED, CONTRACTOR SHALL DISCONNECT AND REMOVE THIS EQUIPMENT AND/OR DEVICES INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
8. PATCH ALL CONDUIT PENETRATIONS THROUGH EXISTING FLOORS, WALLS AND CEILINGS TO MATCH EXISTING CONSTRUCTION DUE TO THE REMOVAL OF EXISTING CONDUITS AND DEVICES. PROVIDE FIRE STOPPING COMPOUND AS MANUFACTURED BY HILTI OR 3M TO MATCH EXISTING FIRE RATING OF SUCH PENETRATIONS.
9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE DEMOLITION WORK WITH ALL OTHER TRADES.
10. PROVIDE TEMPORARY LIGHTING (PER OSHA REQUIREMENTS) DURING THE ENTIRE DURATION OF THIS PROJECT.
11. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL POWER OUTAGES AND/OR DISRUPTIONS THAT WILL AFFECT OTHER PARTS OF THE BUILDING WITH OWNER.



1. CONDENSERS FOR WALK-IN UNITS TO BE REPLACED. REFER TO POWER PLAN AND EQUIPMENT SCHEDULES FOR MORE DETAILS.
2. EXISTING KITCHEN HOOD AND HOOD EQUIPMENT INCLUDING EXHAUST AND LIGHTING ARE TO REMAIN. ANSUL FIRE SUPPRESSION SYSTEM TO BE REPLACED. REFER TO FIRE KITCHEN HOOD DETAIL FOR MORE INFORMATION.
3. MAINTAIN ALL EXISTING BRANCH CIRCUITS, CONDUITS AND RACEWAY FOR EQUIPMENT TO BE REPLACED AS FIELD CONDITIONS ALLOW. REFER TO POWER PLAN AND ELECTRICAL SCHEDULES FOR SPECIFIC DETAILS.
4. EQUIPMENT AND WORK TABLES TO REMAIN AS-IS.
5. CAP EXISTING BRANCH CIRCUITS USED FOR EXISTING CONVENIENCE RECEPTACLES TO BE REPLACED. RE-USE BRANCH CIRCUITS FOR NEW RECEPTACLES. REFER TO POWER PLANS FOR MORE DETAIL.



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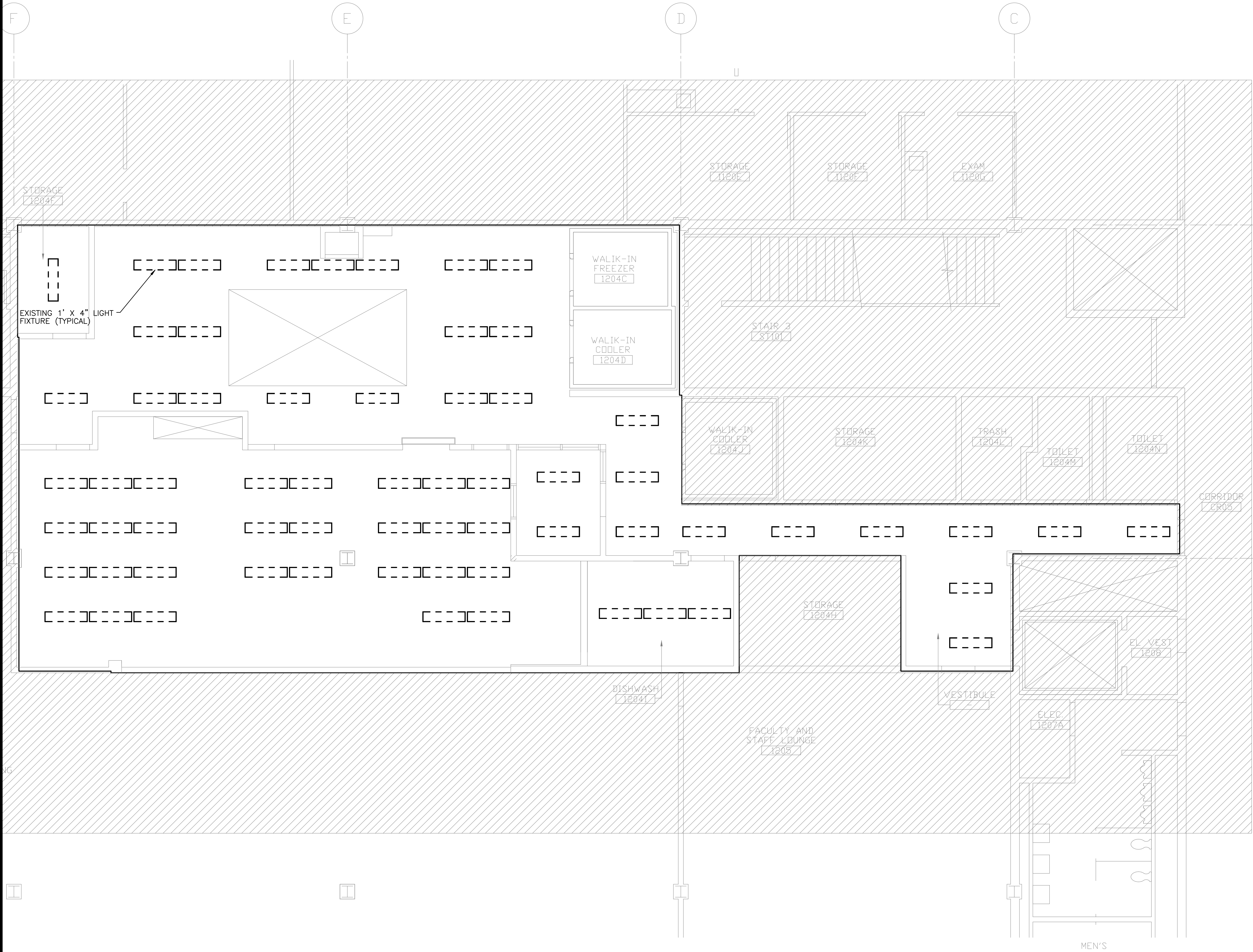


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DEMO POWER PLAN

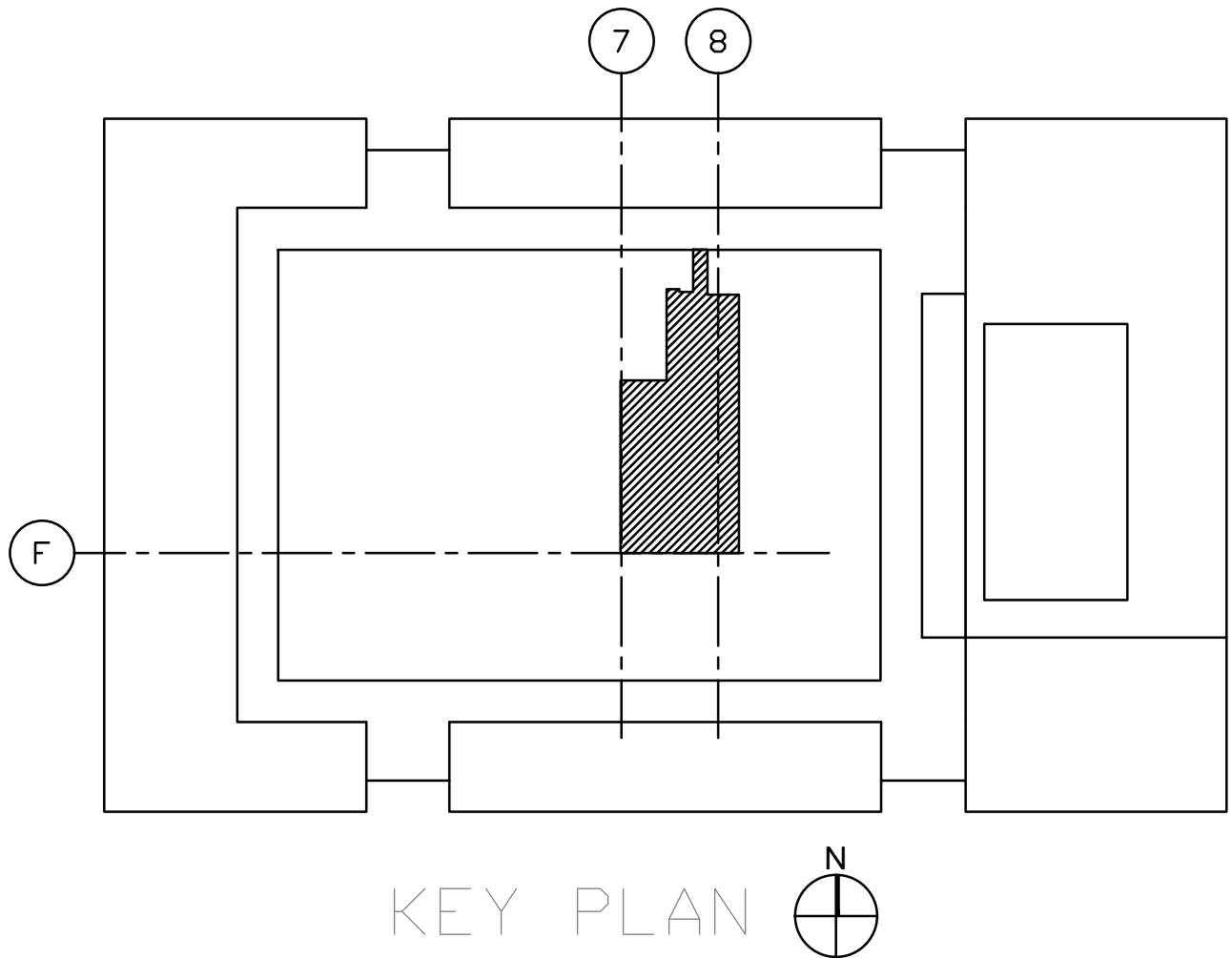
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- GENERAL ELECTRICAL DEMOLITION NOTES:
1. A COMPLETE AND ACCURATE DESCRIPTION OF ALL ELECTRICAL WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE, REROUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE ELECTRICAL AND TECHNOLOGY WORK. SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED AS INCLUDED UNDER THE CONTRACT.
 2. THE ELECTRICAL DRAWINGS ARE GENERALLY INSTRUCTIVE OF THE ALTERATIONS WHICH INVOLVE THE EXISTING ELECTRICAL WORK. IT IS NOT INTENDED THAT SUCH ALTERATIONS BE LIMITED TO THESE INSTRUCTIONS.
 3. WHERE EXISTING INTERIOR ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, IT SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE REVISION. ALL CONDUIT, WIRE, SUPPORTS, HANGERS, ETC. ARE INCLUDED. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, ALL WIRE SHALL BE PULLED OUT OF CONDUIT AND THE CONDUIT ITSELF PLUGGED AT EACH END.
 4. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING INTERIOR LIGHTING FIXTURES, TRACK LIGHTING, SWITCHES, POWER AND TELEPHONE/DATA RECEPTACLES, SECURITY EQUIPMENT, CONTROLS, CONDUIT, FITTINGS, WIRE, CABLE AND OTHER DEVICES WHICH ARE SCHEDULED TO BE DEMOLISHED AS A RESULT OF THE RENOVATION/ALTERATIONS. ALL ITEMS AND EQUIPMENT, MATERIALS, FIXTURES, ETC. SHALL BE PROPERLY DISPOSED OF.
 5. LEGALLY DISPOSE ALL ITEMS REJECTED OR UNWANTED BY THE BUILDING OWNER. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, WITH THE EXCEPTION OF WIRE AND CABLE, AS GENERALLY OUTLINED IN THE PREVIOUS PARAGRAPH, SHALL BE REUSED AS COMPLETELY AS IS FOUND PRACTICAL. EXAMINE THE CONDITION OF SUCH MATERIALS AND EQUIPMENT AND MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE. PRESENT FINDINGS PERIODICALLY TO THE ARCHITECT WHO IN TURN WILL MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE SHALL BE NEW.
 6. THIS CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO DEMOLITION, ALTERATIONS, OPERATION OR INSTALLATION OF NEW WORK.
 7. THE ELECTRICAL CONTRACTOR SHALL UTILIZE EXTREME CARE WHEN ENCOUNTERING EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICES THAT ARE ENERGIZED FROM A SEPARATE SOURCE OTHER THAN THE ROOM, AREA, OR LEVEL UNDER THIS SCOPE OF WORK. IF SUCH CONDITIONS ARE ENCOUNTERED, CONTRACTOR SHALL DISCONNECT AND REMOVE THIS EQUIPMENT AND/OR DEVICES INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
 8. PATCH ALL CONDUIT PENETRATIONS THROUGH EXISTING FLOORS, WALLS AND CEILINGS TO MATCH EXISTING CONSTRUCTION DUE TO THE REMOVAL OF EXISTING CONDUITS AND DEVICES. PROVIDE FIRE STOPPING COMPOUND AS MANUFACTURED BY HILTI OR 3M TO MATCH EXISTING FIRE RATING OF SUCH PENETRATIONS.
 9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE DEMOLITION WORK WITH ALL OTHER TRADES.
 10. PROVIDE TEMPORARY LIGHTING (PER OSHA REQUIREMENTS) DURING THE ENTIRE DURATION OF THIS PROJECT.
 11. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL POWER OUTAGES AND/OR DISRUPTIONS THAT WILL AFFECT OTHER PARTS OF THE BUILDING WITH OWNER.
 12. RE-USE EXISTING BRANCH CIRCUITS AND ALL SWITCHING LOCATIONS.

1 DEMOLITION PLAN - LIGHTING
SCALE: 1/4" = 1'-0"



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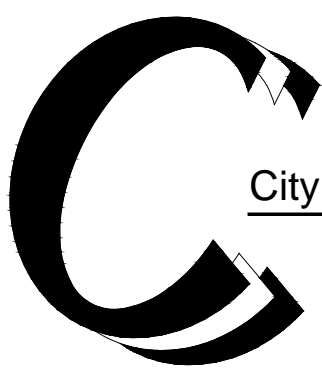
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SHEET TITLE

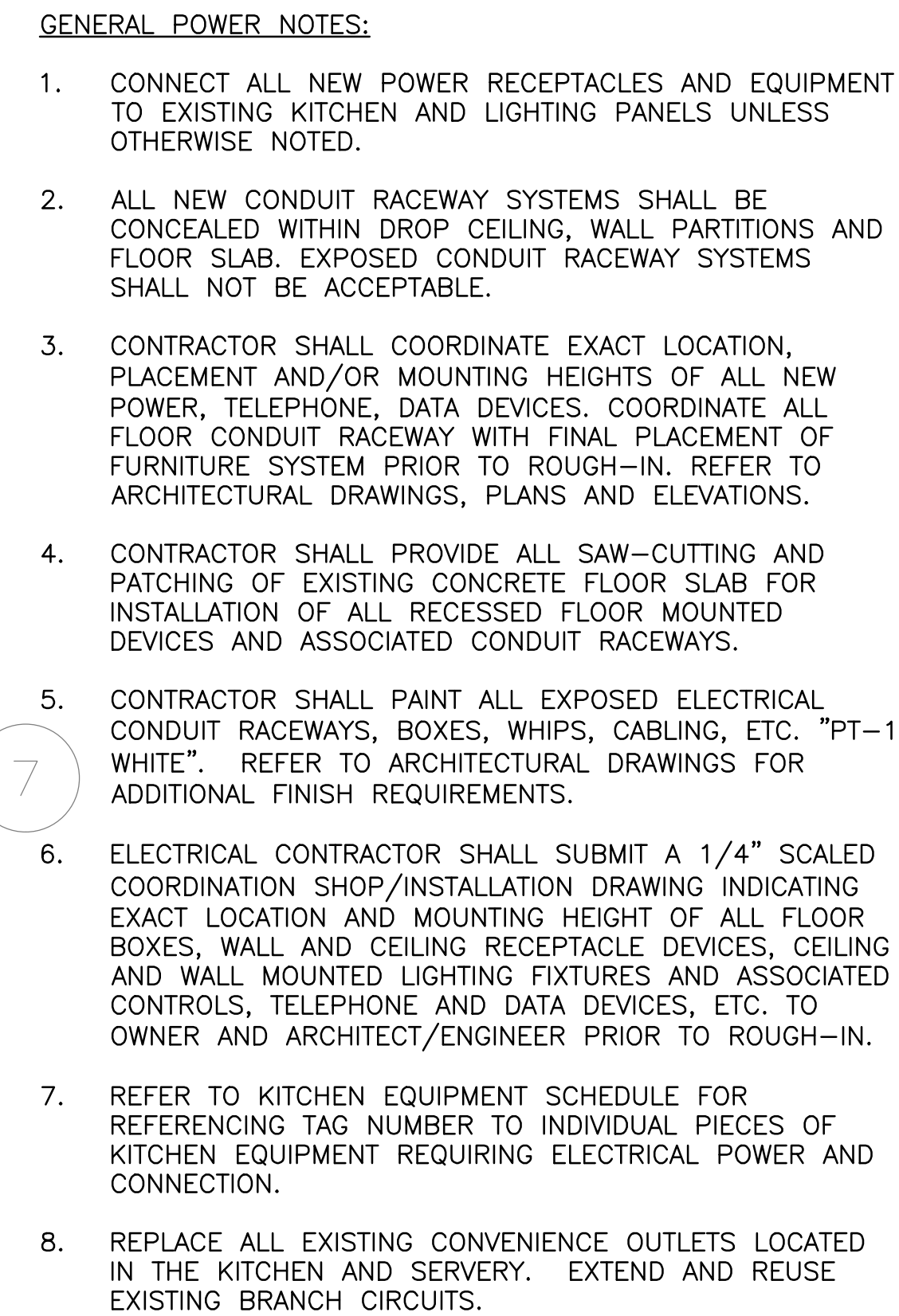
DEMO LIGHTING PLAN

PROJECT NO:

SHEET NO:

SCALE:

E1.1



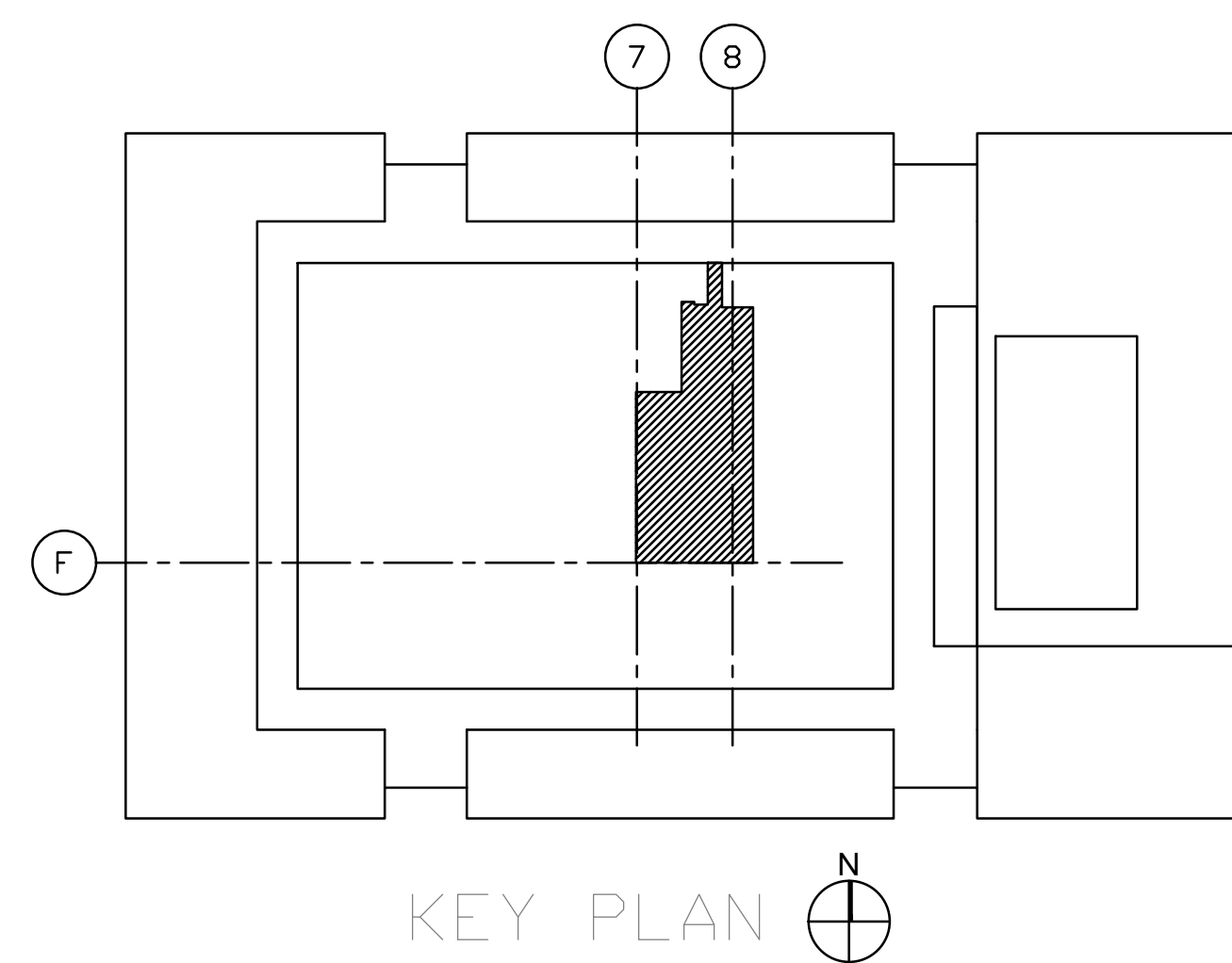
KEY NOTES

USE EXISTING 225A, 120/208V, 3-PHASE, 4-WIRE KITCHEN PANELS TO PROVIDE POWER TO ALL NEW AND RELOCATED KITCHEN EQUIPMENT AND RECEPTACLE BRANCH CIRCUITS UNLESS OTHERWISE NOTED. RE-USE ANY EXISTING BREAKERS, BRANCH CIRCUIT CONDUITS, AND RACEWAY AS FIELD CONDITIONS ALLOW. PROVIDE NEW BREAKERS IN EXISTING PANELS FOR NEW EQUIPMENT. REFER TO PANEL SCHEDULES ON DRAWING E5.0 FOR MORE DETAIL.

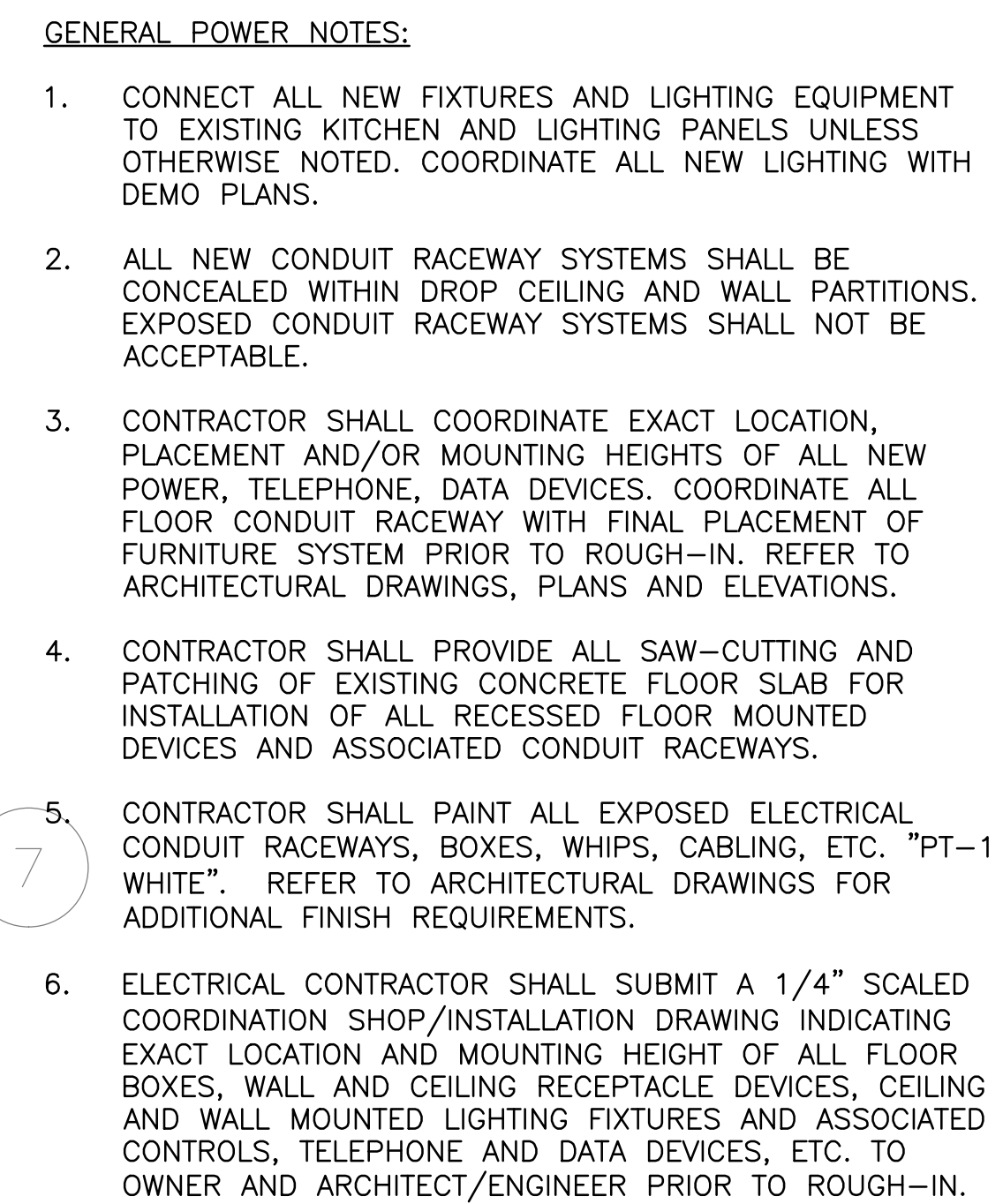
PROVIDE SINGLE BRANCH CIRCUIT TO EACH CONDENSER AND EVAPORATOR COIL PACKAGE SYSTEM. PROVIDE NEW UNIT-STRUT RACK SUPPORT AND SHELVES FOR HOUSING CONDENSERS. RE-USE CONDUITS AND RACEWAY. USE EXISTING BRANCH CIRCUIT RACEWAY FOR CONNECTING CONDENSERS AND EVAPORATOR COILS.

NEW STEAMER EQUIPMENT TO REQUIRE TWO ELECTRICAL CONNECTIONS. RE-USE EXISTING BRANCH CIRCUITS FROM DISTRIBUTION PANEL IHP-K LOCATED IN ELECTRICAL CLOSET.

REPLACE EXISTING ANSUL FIRE PROTECTION PULL STATION AND HARDWARE. REFER TO KITCHEN HOOD DETAIL ON DRAWING E6.0 FOR MORE DETAIL.



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1. RE-USE EXISTING BRANCH CIRCUITING FOR ALL NEW LIGHT FIXTURES CONTRACTOR TO VERIFY LIGHTING PANELS AND UPDATED PANEL DIRECTORIES.
2. FIXTURES SHOWN AS EMERGENCY TYPE TO REMAIN ON EMERGENCY AND LIFE SAFETY PLAN. REUSE EXISTING EMERGENCY BRANCH CIRCUITS.
3. REMOVE AND REPLACE ALL EXISTING LIGHT SWITCHES AND MAINTAIN ALL EXISTING SWITCH LOCATIONS



E3.0



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EXISTING PANELBOARD 1-KP-1														
LOCATION: KITCHEN														
SERVICE: 208/120V-3PH-4W														
208 V														
NEUTRAL BUS: STANDARD, COPPER														
GROUND BUS: STANDARD, COPPER														
MAIN CIRCUIT BREAKER: 200A														
MOUNTING: SURFACE														
INTERRUPT RATING: 42,000 AIC														
ENCLOSURE: NEMA 1														
DESCRIPTION	CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION				
				A	B	C								
M GASKETS/LIGHTS(WALK-IN)	1	20A-1P	1800	2600			800	20A-3P	2	M DISPOSAL 1-1/2 HP(EXISTING)				
M GASKETS/LIGHTS(WALK-IN)	3	20A-1P	1800		2600		800	--	4	M				
M REFRIGERATED COUNTER CASE	5	20A-1P	1400			2200	800	--	6	M				
M REFRIG PASS THRU(EXISTING)	7	20A-3P	1200	1200				20A-1P	8	M SPARE				
M MIXER(EXISTING)	9	--	400		400			20A-1P	10	M SPARE				
M SALAD AND DESSERT REFRIG(EXISTING)	11	--	200			200		20A-1P	12	M SPARE				
M GASKETS/LIGHTS(WALK-IN)	13	20A-3P	1800	1800				20A-1P	14	M SPARE				
SPARE	15	--			0			20A-1P	16	M SPARE				
M COOK TABLE/WALL RECEPT.(EXISTING)	17	--	360			360		20A-1P	18	M SPARE				
SPARE	19	20A-1P		960			960	20A-1P	20	M CONVECTION OVEN				
SPARE	21	20A-1P			960		960	20A-1P	22	M CONVECTION OVEN				
M DESSERT TABLE(EXISTING)	23	20A-1P	360			2160	1800	20A-1P	24	M INDUCTION BURNER				
SPARE	25	20A-3P		1800			1800	20A-1P	26	M FIRE SUPPRESSION SYSTEM				
SPARE	27	--			1165		1165	20A-1P	28	M RAISED RAIL REFRIGERATOR				
SPARE	29	--				1800	1800	20A-1P	30	M POS SYSTEM				
SPARE	31	20A-1P					1800	20A-1P	32	R RECEPTACLES-KITCHEN				
SPARE	33	20A-1P			0			20A-1P	34	M SPARE				
SPARE	35	20A-1P				0		20A-1P	36	M SPARE				
SPARE	37	20A-1P		0				20A-1P	38	M SPARE				
SPARE	39	20A-1P			0			20A-1P	40	M SPARE				
SPARE	41	20A-1P						20A-1P	42	M SPARE				
				10160	5125	6720								
TOTAL VA PER PHASE														
CONNECTED LOAD														
DEMAND FACTOR														
DEMAND LOAD														
L LIGHTING 0.00 KVA 0.00 KVA														
R RECEPTACLES 1.80 KVA 0.50 0.90 KVA														
M MOTOR / EQUIP. 18.41 KVA 1.00 18.41 KVA														
H ELECTRIC HEAT 0.00 KVA 0.00 KVA														
TOTAL CONNECTED LOAD: 20.21 KVA														
TOTAL DEMAND LOAD: 19.3 KVA														
TOTAL DEMAND CURRENT: 53.59 AMPS														

EXISTING PANELBOARD 1-KP-2														
LOCATION: KITCHEN HALLWAY														
SERVICE: 208/120V-3PH-4W 208 V NEUTRAL BUS: STANDARD, COPPER														
MAIN CIRCUIT BREAKER: 200A GROUND BUS: STANDARD, COPPER														
MAIN BUS RATING AND TYPE: 200A COPPER MOUNTING: SURFACE														
INTERRUPT RATING: 42,000 AIC ENCLOSURE: NEMA 1														
DESCRIPTION	CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION				
				A	B	C								
M REFRIGERATION SYSTEM	1	45A-3P	4000	4000			4000	20A-3P	2	M COMPRESSOR 1/2HP(EXISTING -- TO BE REMOVED)				
M	3	--	4000		4000		--	--	4	M				
M	5	--	4000			4000	--	--	6	M				
M COMPRESSOR 1/2HP(EXISTING -- TO BE REMOVED)	7	20A-3P		800			800	20A-3P	8	M DISPOSAL 3HP				
M	9	--			800		800	--	10	M				
M	11	--				800	800	--	12	M				
M DISHWASHER 2-1 1/2HPS	13	20A-3P	1000	6000			5000	20A-3P	14	M TANK HEATER 15KW				
M	15	--			5000		5000	--	16	M				
M	17	--				5000	5000	--	18	M				
M COFFEE WARMER FACULTY LOUNGE	19	20A-1P	500	1700			1200	20A-1P	20	M COMPACTOR 1/2HP				
M WALK-IN COOLER	21	20A-1P	240		1440		1200	20A-1P	22	M COOKS OFFICE WIREMOLD				
M TURN STYLE ELEC EVE.	23	20A-1P	500			500	20A-1P	24	M	SPARE				
M CAN CRUSHER 1HP	25	20A-3P	500	1900			1400	20A-3P	26	M CONVECTION OVEN				
M	27	--	500		1900		1400	--	28	M				
M	29	--	500			1900	1400	--	30	M				
SPARE	31	20A-1P		0			20A-1P	32	M	SPARE				
M REFRIG FACULTY LOUNGE	33	20A-1P	800		800		20A-1P	34	M	SPARE				
M SELF SER. SANDWICH	35	20A-1P	500			500	20A-1P	36	M	SPARE				
M SELF SER REFRIG	37	20A-1P	500	500			20A-1P	38	M	SPARE				
M SELF SER PEPS MECH	39	20A-1P	1200		1920		720	20A-1P	40	M SPLIT DUPLEX FACULTY LOUNGE				
SPARE	41	20A-1P				0	20A-1P	42	M	SPARE				
				14900	15860	12700								
TOTAL VA PER PHASE														
CONNECTED LOAD DEMAND FACTOR DEMAND LOAD														
L LIGHTING 0.00 KVA 0.00 0.00 KVA														
R RECEPTACLES 0.00 KVA 0.50 0.00 KVA														
M MOTOR / EQUIP. 43.46 KVA 1.00 43.46 KVA														
H ELECTRIC HEAT 0.00 KVA 1.00 0.00 KVA														
TOTAL CONNECTED LOAD: 43.46 KVA TOTAL DEMAND LOAD: 43.5 KVA														
TOTAL DEMAND CURRENT: 120.64 AMPS														

EXISTING PANELBOARD 1-KP-3												
LOCATION: KITCHEN SERVICE: 208/120V-3PH-4W 208 V NEUTRAL BUS: STANDARD, COPPER MAIN CIRCUIT BREAKER: 200A GROUND BUS: STANDARD, COPPER MAIN BUS RATING AND TYPE: 200A COPPER MOUNTING: SURFACE INTERRUPT RATING: 42,000 AIC ENCLOSURE: NEMA 1												
DESCRIPTION	CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION		
				A	B	C						
M DISPOSER	1	20A-3P	835	3635			3000	40A-2P	2	M SANITIZER 6W/SLICER		
M	3	--	835		3635		3000	--	4	M		
M	5	--	835			835		20A-1P	6	M SPARE		
M MIXER 1HP(EXISTING)	7	20A-3P	1200	3500			2300	25A-1P	8	M ICE MACHINE		
M	9	--	1200		1200			20A-1P	10	M SPARE		
M	11	--	1200			1200		20A-1P	12	M SPARE		
M STEAMER CONTROL(EXISTING)	13	20A-1P	100	100				50A-3P	14	M CHARBROLL--TO BE REMOVED		
SPARE	15	20A-1P			0			--	16	M		
M SHUNT TRIP(EXISTING)	17	20A-1P	100			100		--	18	M		
M GRIDDLE	19	20A-3P	5700	5800			100	20A-1P	20	M SHUNT TRIP		
M	21	--	5700		6200		500	--	22	M ISLAND VENT L		
M	23	--	5700			5700		--	24	M SPARE		
M BRAISING PAN(EXISTING)	25	50A-3P	3000	3250			250	20A-1P	26	M HOOD LIGHTS		
M	27	--	3000		4200		1200	20A-1P	28	M BASED RAIL REFRIGERATOR		
M	29	--	3000			4200	1200	20A-2P	30	M BASED RAIL REFRIGERATOR		
SPARE	31	20A-1P		0				--	32	M		
SPACE	33				0				34	SPACE		
SPACE	35					0			36	SPACE		
SPACE	37				0				38	SPACE		
SPACE	39				0				40	SPACE		
SPACE	41					0			42	SPACE		
				16485	15435	12035						
TOTAL VA PER PHASE												
				CONNECTED LOAD			DEMAND FACTOR			DEMAND LOAD		
				L LIGHTING 0.00 KVA			0.00 KVA			0.00 KVA		
				R RECEPTACLES 0.00 KVA			0.50			0.00 KVA		
				M MOTOR / EQUIP. 26.21 KVA			1.00			26.21 KVA		
				H ELECTRIC HEAT 0.00 KVA			1.00			0.00 KVA		
				TOTAL CONNECTED LOAD: 26.21 KVA			TOTAL DEMAND LOAD: 26.2 KVA					
							TOTAL DEMAND CURRENT: 72.74 AMPS					

EXISTING PANELBOARD 1-KP-4										
LOCATION: SERVERY										
SERVICE: 208/120V-3PH-4W			208 V		NEUTRAL BUS: STANDARD, COPPER					
MAIN CIRCUIT BREAKER: 200A			GROUND BUS: STANDARD, COPPER							
MAIN BUS RATING AND TYPE: 200A COPPER			MOUNTING: SURFACE							
INTERRUPT RATING: 42,000 AIC			ENCLOSURE: NEMA 1							
DESCRIPTION	CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION
				A	B	C				
M SPARE(EXISTING)	1	20A-3P		500			500	40A-2P	2	M COFFEE MACHINE S WALL(EXISTING)
M FIRE SUPPRESSION SYSTEM	3	20A-1P	1800		2300		500	--	4	M COFFEE MACHINE S WALL(EXISTING)
M SHUNT TRIP(EXISTING)	5	--				0		20A-1P	6	M SPARE
M FRYER	7	60A-3P	5667	6267			600	20A-2P	8	M 22V REC S WALL(EXISTING)
M SPARE	9	--	5667		6267		600	--	10	M 22V REC S WALL(EXISTING)
M	11	--	5667			5667		20A-1P	12	M SPARE S WALL
M SPARE	13	20A-1P		0			50A-3P	14	M SPARE S WALL	
M WORK TOP REFRIGERATOR	15	20A-1P			1000			--	16	M SPARE S WALL
M RECEPT S WALL(EXISTING)	17	20A-1P	1000			0		--	18	M SPARE S WALL
M FRYER	19	60A-3P	5667	5667			200	20A-2P	20	M TRANSFER 2P(EXISTING)
M SPARE	21	--	5667		5667		200	--	22	M
M SPARE	23	--	5667			6387	720	--	24	M S W RECEPT(EXISTING)
M RECEPT & DRINK SIGN S WALL(EXISTING)	25	50A-3P	3600	5400			1800	20A-1P	26	M BLENDERS
M SPARE	27	--			1800		1800	20A-1P	28	M BLENDERS
M SPARE	29	--				1800	1800	20A-2P	30	M SOUP/SALAD BAR
M COLD PANS	31	20A-1P	600	1700			1100	20A-2P	32	M HOT FOOD WELL
R RECEPTACLES-SERVERY	33	20A-1P	1080		1680		600	20A-2P	34	M SNEEZE GUARDS
R TURNSTILE	35	20A-1P	500			2400	1900	20A-2P	36	M SNEEZE GUARDS
SPACE	37			1800			1800	20A-2P	38	M SNEEZE GUARDS
SPACE	39				1050		1050	20A-2P	40	M REFRIGERATED MERCHANDISER
SPACE	41					1050	1050	--	42	M
				21534	19964	17304				
TOTAL VA PER PHASE										
CONNECTED LOAD				DEMAND FACTOR			DEMAND LOAD			
L LIGHTING		0.00 KVA						0.00 KVA		
R RECEPTACLES		1.58 KVA						0.79 KVA		
M MOTOR / EQUIP.		44.69 KVA						44.69 KVA		
H ELECTRIC HEAT		0.00 KVA						0.00 KVA		
TOTAL CONNECTED LOAD:			46.27 KVA	TOTAL DEMAND LOAD:			45.5 KVA			
				TOTAL DEMAND CURRENT:			126.24 AMPS			

LIGHT FIXTURE SCHEDULE							
FIXTURE NO.	DESCRIPTION	LAMP TYPE	LAMP	BALLAST	VOLTAGE	MOUNTING	MANUFACTURER
F1	LINEAR FLOURESCENT RECESSED CHICAGO PLENUM RATED 2X2 WITH ONE PIECE STAINLESS STEEL HOUSING. HIGH DURABILITY 0.135" THICK VIRGIN ACRYLIC, PRISMATIC PATTERN LENS SEALED TO DOOR WITH NSF LISTED RTV SILICONE. UL AND CUL LISTED FOR WET LOCATION, DUST AND WATER RESISTANCE RATED IP-65, AND NSF-C2 LISTED FOR FOOD ZONE. CONTRACTOR TO CONFIRM CEILING TYPE PRIOR TO ORDERING. ARCHITECT TO REVIEW.	FL	(1) 150W T8	ELEC	120V	RECESSED	KENALL # CSEF02424-1-150-RS-1-120-2F-2H-U-R-PEL-FN-QR
F1A	LINEAR FLOURESCENT RECESSED CHICAGO PLENUM RATED 2X2 WITH ONE PIECE STAINLESS STEEL HOUSING, HIGH DURABILITY 0.135" THICK VIRGIN ACRYLIC, PRISMATIC PATTERN LENS SEALED TO DOOR WITH NSF LISTED RTV SILICONE. UL AND CUL LISTED FOR WET LOCATION, DUST AND WATER RESISTANCE RATED IP-65, AND NSF-C2 LISTED FOR FOOD ZONE. CONTRACTOR TO CONFIRM CEILING TYPE PRIOR TO ORDERING. ARCHITECT TO REVIEW. BATTERY BACK-UP WITH 90-MINUTE NIGHT LIGHT CAPABILITY.	FL	(1) 150W T8	ELEC	120V	RECESSED	KENALL # CSEF02424-1-150-RS-1-120-2F-2H-U-R-PEL-FN-QR-TN
F2	LINEAR FLOURESCENT RECESSED CHICAGO PLENUM RATED 2X2 WITH ONE PIECE STAINLESS STEEL HOUSING, HIGH DURABILITY 0.135" THICK VIRGIN ACRYLIC, PRISMATIC PATTERN LENS SEALED TO DOOR WITH NSF LISTED RTV SILICONE. UL AND CUL LISTED FOR WET LOCATION, DUST AND WATER RESISTANCE RATED IP-65, AND NSF-C2 LISTED FOR FOOD ZONE. CONTRACTOR TO CONFIRM CEILING TYPE PRIOR TO ORDERING. ARCHITECT TO REVIEW.	FL	(2) 32W T8	ELEC	120V	RECESSED	KENALL # CSEF024P-2-32-RS-1-120-2F-2H-U-R-PEL-FN-QR
P1	PENDANT CEILING MOUNTED WITH ALUMINUM CYLINDRICAL EXTRUSION AND INTERNAL SUPPORT FEATURING MOUNTING PLATE, 5' CLEAR POWER CORD, ELECTRONIC TRANSFORMER AND ADJUSTABLE MODULE FOR RELAMPING AND VARIATION OF LIGHT BEAM ANGLES. 35W SHIELDED MR16 HALOGEN LOW VOLTAGE LENS AND ALUMINUM FINISH.	HALOGEN	35W	ELEC	120V	PENDANT/CEILING	LITE SOURCE INC. MODA-LS142SPS-120-35W -MR-16-GU5.3
P2	RECESSED LINEAR FLUORESCENT WALLWASHER	FL	54W TSHO	ELEC	120V	RECESSED	AXIS BMR-WW-8'-TSHO-1-W-120-ERS-1-MOUNTING
EM	EMERGENCY WALL PACK LIGHT FIXTURE WITH SEALED NICKEL-CADMIUM 90 MINUTE BATTER AND INTEGRAL TEST SWITCH.	LED			120V	WALL	SURE-LITE # APEL SERIES
X1	EDGE GLOW SINGLE FACED EXIT SIGN. PROVIDE WITH EMERGENCY BATTERY	LED	3.3W LED		120V	RECESSED/CEILING/SURFACE	ALKCO EDGE-GLO T-1 LIGHTING XTRABRIGHT EXTRINIX CXE
X2	EDGE GLOW DOUBLE FACED EXIT SIGN. PROVIDE WITH EMERGENCY BATTERY	LED	5W LED		120V	RECESSED/CEILING/SURFACE	ALKCO EDGE-GLO T-1 LIGHTING XTRABRIGHT EXTRINIX CXE

FIXTURE SCHEDULE NOTES:

- 1 ELECTRICAL CONTRACTOR SHALL PROVIDE SUBMITTAL ON FULL LIGHTING FIXTURE PURCHASE FOR ARCHITECT'S REVIEW PRIOR TO ORDER. SUBMIT THREE
2 (3) SETS OF CATALOG CUTS TO ARCHITECT FOR REVIEW PRIOR TO ORDERING LIGHTING FIXTURES.
- 3 UNLESS NOTED OTHERWISE, ALL BALLASTS SHALL BE PROGRAMMABLE RAPID START, ELECTRONIC ENERGY SAVING TYPE. FIXTURES SHALL BE ORDERED
4 WITH THE APPROPRIATE BALLASTS THAT HAVE UL AND CBM LABELS. BALLASTS SHALL CONFORM TO LOCAL CODE REQUIREMENTS FOR PERFORMANCE,
5 SWITCHING, AND WIRING (I.E. TANDEM).
- 6 ALL LIGHTING FIXTURES SHALL INCLUDE, BULBS/LAMPS.
- 7 FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY LOCAL CODES.
- 8 THE ARCHITECT AND ENGINEER SHALL APPROVE FIXTURE SUBSTITUTIONS PRIOR TO BID. CONTRACTOR SHALL SUPPLY A SAMPLE AND/OR PHOTOMETRIC
9 DATA IF REQUESTED. IF SUBSTITUTION IS REJECTED, CONTRACTOR SHALL PROVIDE SPECIFIED PRODUCT.
- 10 FIXTURES SHALL INCLUDE ACCESSORIES FOR INSTALLATION ACCORDING TO LOCAL AND NATIONAL CODES.
- 11 PRIOR TO ORDERING LIGHTING EQUIPMENT, THE CONTRACTOR SHALL VERIFY LOCATIONS AND RECESS DEPTHS.
- 12 LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE ATTACHED FIXTURE SCHEDULE.
- 13 VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
- 14 UNLESS NOTED OTHERWISE, PROVIDE 3500 KELVIN LAMPS FOR ALL FLUORESCENT FIXTURES FROM: OSRAM SYLVANIA OR PHILIPS.
- 15 CONTRACTOR SHALL VERIFY CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURES.
- 16 CEILING THICKNESS IN EXCESS OF 3/4" SHALL BE IDENTIFIED IN WRITING BY CONTRACTOR/ARCHITECT.
- 17 FIXTURES LOCATED IN AN INSULATED CEILING AREA, SHALL HAVE AN IC HOUSING (ELECTRICAL CONTRACTOR TO COORDINATE).
- 18 PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR LIGHTING FIXTURES LOCATED IN A FIRE-RATED CEILING.
- 19 PROVIDE EXIT SIGN FACES (SINGLE OR DOUBLE) AND ARROW AS DIRECTED ON FLOOR PLANS AND EXIT SIGN SCHEDULE.

LIGHTING FIXTURE SCHEDULE NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUBMIT EIGHT (8) SETS OF CATALOG CUTS TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING LIGHTING FIXTURES.
2. ALL BALLASTS SHALL BE PROGRAMMABLE RAPID START, ELECTRONIC ENERGY SAVING TYPE.
3. ALL EXIT SIGNS AND EMERGENCY LIGHT FIXTURES SHALL BE IN STRICT ACCORDANCE WITH LOCAL CODE AUTHORITY. ALL EXIT SIGNS SHALL BE INSTALLED IN A VISIBLE LOCATION, WITHOUT ANY OBSTRUCTIONS IN ORDER TO FACILITATE VIEWING. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT STEMS WHERE NECESSARY TO DROP A SIGN BELOW AN OBSTRUCTION.
4. ALLOWANCES TO BE PER FIXTURE SHOWN ON PLANS.
5. ALLOWANCES SHALL INCLUDE FIXTURES, BULBS, TAX & DELIVERY.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE SUBMITTAL ON FULL LIGHTING FIXTURE PURCHASE FOR ARCHITECT'S APPROVAL PRIOR TO ORDER.
7. FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY LOCAL CODES.
8. PROVIDE ENERGY STAR QUALIFIED COMPACT FLUORESCENT LAMPS ON ALL LIGHTING FIXTURES REQUIRING CFL LAMPS. PROVIDE LINEAR FLUORESCENT LAMPS FROM: OSRAM SYLVANIA, GE OR PHILIPS UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL VERIFY FINAL VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURES.
10. CEILING THICKNESS IN EXCESS OF 3/4" SHALL BE IDENTIFIED IN WRITING BY CONTRACTOR/ARCHITECT.
11. FIXTURES LOCATED IN AN INSULATED CEILING AREA, SHALL HAVE AN IC HOUSING (ELECTRICAL CONTRACTOR TO COORDINATE).
12. FIXTURES SHALL BE ORDERED WITH THE APPROPRIATE BALLASTS THAT HAVE UL AND CBM LABELS. BALLASTS SHALL CONFORM TO LOCAL CODE REQUIREMENTS FOR PERFORMANCE, SWITCHING, AND WIRING (I.E. TANDEN).
13. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR LIGHTING FIXTURES LOCATED IN A FIRE-RATED CEILING.
14. WALLS DIRECTLY ILLUMINATED SHALL BE INSTALLED AND FINISHED IN A MANNER TO ELIMINATE SHADOWS OR BLEMISHES (I.E. HANG DRY WALL VERTICALLY).
15. THE ELECTRICAL CONTRACTOR MAY SUBMIT ALTERNATE LIGHTING FIXTURE MANUFACTURERS THAT ARE APPROVED EQUAL TO WHAT IS INDICATED ON THE LIGHTING FIXTURE SCHEDULE ONLY BY LITHONIA, LIGHTOLIER AND CDDPER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A LIGHTING FIXTURE SAMPLE AND/OR PHOTOMETRIC DATA AS PART OF THE SUBMITTAL PACKAGE.
16. FIXTURES SHALL INCLUDE ACCESSORIES FOR INSTALLATION ACCORDING TO LOCAL AND NATIONAL CODES.
17. PRIOR TO ORDERING LIGHTING EQUIPMENT, THE CONTRACTOR SHALL VERIFY LOCATIONS AND RECESS DEPTHS.
18. LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE ATTACHED FIXTURE SCHEDULE.
19. VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.



ROULA ASSOCIATES ARCHITECTS, CHTD
1 E. SUPERIOR STREET, CHICAGO, IL. 60611
Tel: 312.822.9921 Fax: 312.822.0246
www.roularchitects.com

MEP,FP

dbHMS

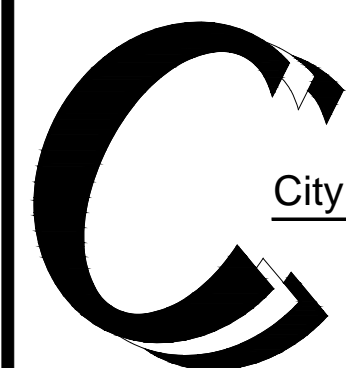
303 W. ERIE, SUITE 510
CHICAGO, IL 60654
Tel: 312.915.0557 Fax: 312.915.0558
www.dbhms.com

KITCHEN EQUIPMENT

EDGE ASSOCIATES

220 E. LAKE STREET, SUITE 303
ADDISON, IL 60101
Tel: 630.279.2462 Fax: 630.279.2759
www.edgeassociates.net

3	06-27-14	100% CONSTRUCTION DOCUMENTS
2	05-16-14	75% CONSTRUCTION DOCUMENTS
1	04-18-14	SCHEMATIC DESIGN
NO.	DATE	REVISIONS



City Colleges of Chicago

226 W. JACKSON BLVD
CHICAGO, IL 60606
CAPITAL PLANNING
AND CONSTRUCTION

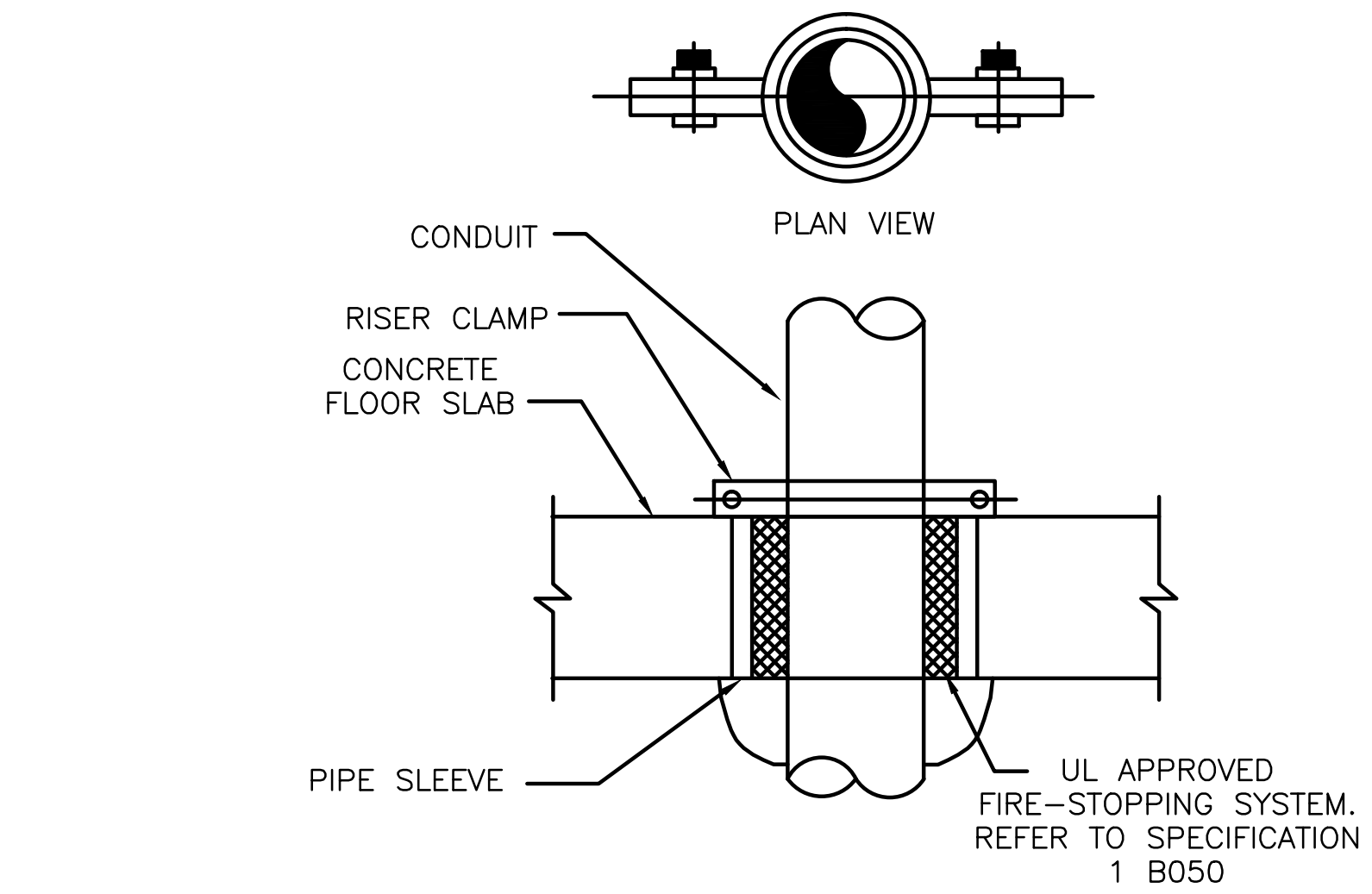
KITCHEN AND SERVERY RENOVATIONS

RICHARD J. DALEY COLLEGE
7500 S. PULASKI CHICAGO, IL 60652

SHEET TITLE

LIGHTING SCHEDULE

PROJECT NO:	SHEET NO.
SCALE:	<div style="font-size: 2em; font-weight: bold; margin: 0;">E5.2</div>



A cross-sectional diagram of a fire-rated concrete wall penetration assembly. The diagram shows a central horizontal conduit passing through a vertical wall. The wall is labeled "FIRE RATED CONCRETE WALL (SOLID OR BLOCK)". The conduit is labeled "CONDUIT". The assembly includes "PACKING MATERIAL" around the conduit, "3\" MINERAL WOOL EACH SIDE" on the outer sides, "1\" MINIMUM FIREDAM CAULK" at the top and bottom joints, and "1/4\" MIN. 1-3/8\" MAX. ANNULAR SPACE" between the conduit and the wall. "STAINLESS STEEL PLATE (EACH SIDE), WHERE EXPOSED." is indicated at the bottom joint.

FIRE RATED CONCRETE WALL
(SOLID OR BLOCK)

PACKING MATERIAL

3" MINERAL WOOL EACH SIDE

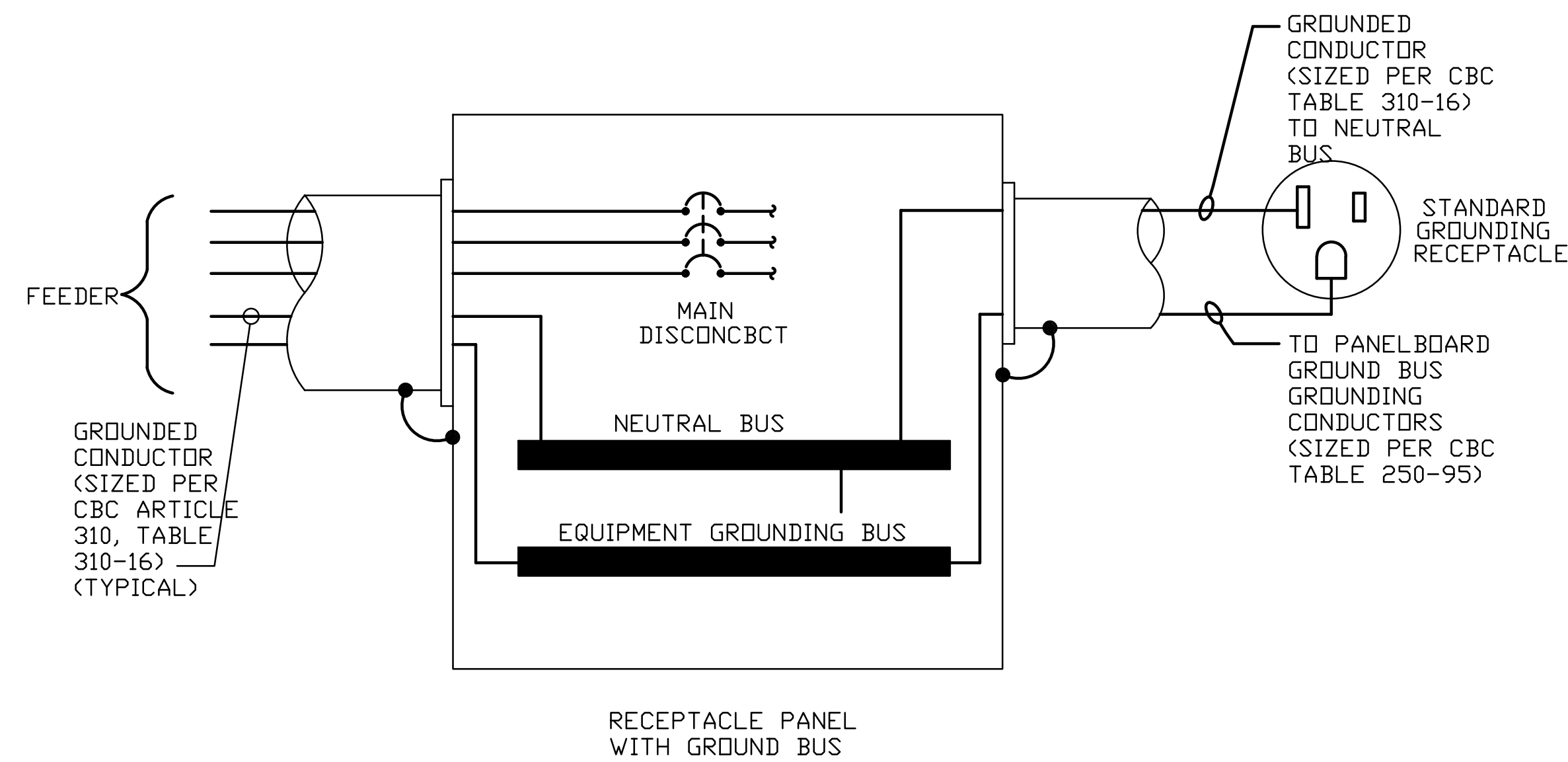
1" MINIMUM FIREDAM
CAULK

1/4" MIN. 1-3/8" MAX.
ANNULAR SPACE

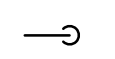
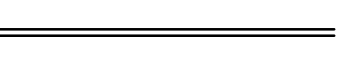
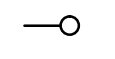
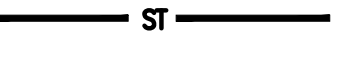
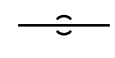
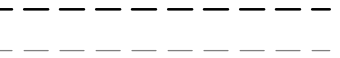
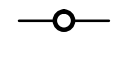

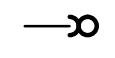


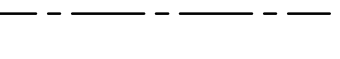

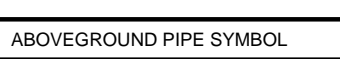
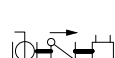

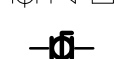
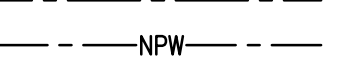



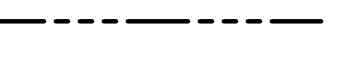





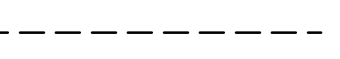

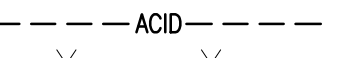
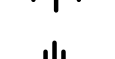

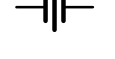



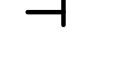

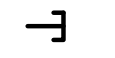

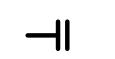
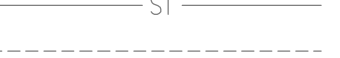





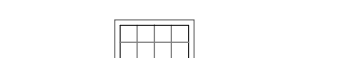
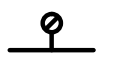








CONDUIT

STAINLESS STEEL
PLATE (EACH SIDE),
WHERE EXPOSED.

CONDUIT INTERIOR CONCRETE
WALL PENETRATION DETAIL
SCALE: N.T.S.



RECEPTACLE PANEL GROUNDING DIAGRAM

SYMBOLS LIST			
SYMBOLS LIST		PIPING SYSTEMS	
SYMBOL	DESCRIPTION	UNDERGROUND PIPE SYMBOL	DESCRIPTION
	ELBOW DOWN		SANITARY, SOIL OR WASTE PIPE
	ELBOW UP		STORM SEWER PIPE
	TEE DN		SANITARY VENT PIPE
	TEE UP		EXISTING SANITARY, SOIL OR WASTE PIPE
	FIXTURE TRAP		EXISTING STORM SEWER PIPE
	CHECK VALVE		EXISTING SANITARY VENT PIPE
	BALANCING COCK		DOMESTIC COLD WATER PIPE
	BALANCING VALVE		NON-POTABLE WATER
	BALL VALVE / ISOLATION VALVE		DOMESTIC HOT WATER PIPE
	OS&Y VALVE		DOMESTIC HOT WATER RECIRC. PIPE
	GATE VALVE		SANITARY, SOIL OR WASTE PIPE
	GLOBE VALVE		STORM SEWER PIPE
	MIXING VALVE		OVERFLOW STORM SEWER PIPE
	WALL SLEEVE		SANITARY VENT PIPE
	UNION		ACID VENT PIPE
	FLOOR CLEAN OUT		PIPING TO BE REMOVED
	CLEAN OUT		EXISTING DOMESTIC COLD WATER PIPE
	PIPE CAP		EXISTING DOMESTIC HOT WATER PIPE
	WALL CLEAN OUT		EXISTING DOMESTIC HOT WATER RECIRC. PIPE
	STRAINER		EXISTING SANITARY, SOIL OR WASTE PIPE
	THERMOMETER		EXISTING STORM SEWER PIPE
	PRESSURE GAUGE		EXISTING SANITARY VENT PIPE
	HOSE BIB, EXTERIOR WITH BOX & KEY		FD - FLOOR DRAIN
	HOSE BIB, EXTERIOR		FS - FLOOR SINK
	HOSE BIB		
	HOSE BIB, SPECIAL USE		
	DOUBLE DETECTOR CHECK VALVE		
	WATER METER		
	WATER METER ASSEMBLY		
	PUMP		
	INLINE BACK FLOW PREVENTOR		
	DISCONNECT FROM EXISTING		
	CONNECT TO EXISTING		

GENERAL PLUMBING NOTES:

- ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE ILLINOIS PLUMBING CODE, THE LATEST EDITION OF THE CHICAGO BUILDING CODE, THE LATEST EDITION OF THE CITY OF CHICAGO PLUMBING CODE, AND ALL RELATIVE AMENDMENTS
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS AND FEES.
- DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, DUCTWORK, CONDUITS, RACEWAYS, ETC. AS SHOWN ON THE DRAWINGS DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. PLUMBING CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTINGS SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS, OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN THE COMPLETION DATE OF THE PROJECT.
- COORDINATE & VERIFY WITH GENERAL CONTRACTOR AND RELATED DISCIPLINES, PRIOR TO START OF ANY WORK, ALL WORK TO BE PERFORMED OUTSIDE OF THE 5'-0" BUILDING PERIMETER LIMITS OF CONSTRUCTION
- ALL PIPING PASSING THRU FLOORS, WALLS, CEILINGS OR ROOF SHALL HAVE A DUCTILE IRON PIPE SLEEVE INSTALLED AROUND THE PIPE AND/OR INSULATION. SLEEVES THROUGH FOUNDATION WALLS SHALL BE AT LEAST 2 PIPE SIZES LARGER THAN THE SERVICE PIPE. PROVIDE AN ESCUTCHEON PLATE AROUND PENETRATIONS EXPOSED TO VIEW. ESCUTCHEON PLATES SHALL BE LARGE ENOUGH TO COVER THE ENTIRE HOLE. ALL PENETRATIONS SHALL BE SEALED TO MAINTAIN THE WALL/FLOOR/ROOF FIRE & INSULATION RATINGS.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FINISHED CEILING HEIGHTS, AND LOCATION OF WALL, ROOF, AND FLOOR OPENINGS.
- PROVIDE HANGERS AND SUPPLEMENTAL SUPPORT STEEL FOR ALL EQUIPMENT AND PIPING. ALL WATER SUPPLY PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS. PIPE COVERING PROTECTION SADDLES OR SHEET METAL INSULATION SHIELDS.
- CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID OR DOING ANY WORK. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS.
- PROVIDE ACCESS TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT IN MECHANICAL ROOMS SUCH AS ISOLATION VALVES, RECIRCULATION PUMPS, ETC. SHALL BE INSTALLED AT A REASONABLE HEIGHT IN ORDER TO FACILITATE MAINTENANCE.
- EXCEPT FOR PIPING ASSOCIATED WITH THE SUMP PUMPS, PLUMBING PIPING SHALL NOT BE ROUTED THROUGH OR OVER ANY ELEVATOR SHAFTS, ELEVATOR EQUIPMENT AREAS, ELECTRICAL EQUIPMENT AREAS, OR COMMUNICATIONS AREAS.
- PLUMBING CONTRACTOR TO GIVE ALL LOCATIONS AND DIMENSIONS OF ALL REQUIRED ACCESS PANELS TO THE GENERAL CONTRACTOR. GENERAL CONTRACTOR WILL SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL ALL FINISH REQUIREMENTS PRIOR TO INSTALLATION.
- IN ANY CASE WHERE NEW EQUIPMENT IS INSTALLED AND HAS TO BE CONNECTED TO EXISTING SYSTEMS, THE CONTRACTOR SHALL VERIFY THE CAPACITIES AT THE INDICATED POINT OF CONNECTION. SHOULD THE EXISTING CONDITION REQUIRE THE NEW BRANCH TO BE ROUTED TO ANOTHER LOCATION, THE CONTRACTOR SHALL PERFORM THIS WORK AS PART OF HIS CONTRACT.

DOMESTIC WATER:

- ALL WATER SUPPLIED TO EQUIPMENT BY OTHER TRADES SHALL HAVE AN ISOLATION VALVE AND AN APPROVED BACKFLOW PREVENTER WHICH SHALL BE SUPPLIED AND INSTALLED BY THIS CONTRACTOR.
- ALL DOMESTIC WATER SUPPLIES TO FIXTURES AND EQUIPMENT SHALL HAVE AIR CHAMBERS.
- ALL WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED, INCLUDING ALL PIPING ABOVE CEILINGS, IN PIPE CHASES, AND IN WALLS. SEE SPECIFICATIONS FOR TYPE AND THICKNESS OF INSULATION. PROVIDE VALVE HANDLE EXTENSIONS ON ALL INSULATED PIPING.
- ALL HOT WATER SUPPLY PIPING SHALL BE INSTALLED TO COMPENSATE FOR EXPANSION OF THE PIPE BY INSTALLING PIPE ANCHORS, GUIDES, EXPANSION JOINTS, PIPE OFFSETS, OR LOOPS. EXPANSION JOINTS TO ACCOMMODATE MOVEMENT IN (3) AXIS(5).
- MOP SINKS ONLY WITH HOSE THREADED FAUCETS SHALL HAVE A VACUUM BREAKER ON THE SUPPLY AFTER THE VALVE, LOCATED 7'-6" ABOVE FINISHED FLOOR.
- EACH GROUP OF FIXTURES SUPPLIED WITH A BRANCH FROM THE MAIN SHALL HAVE AN ISOLATION VALVE NEAR THE POINT OF CONNECTION TO THE MAIN. ALL EQUIPMENT SUPPLIED BY COLD AND/OR HOT WATER SHALL HAVE AN ISOLATION VALVE ON THE WATER SUPPLY.
- PITCH ALL SUPPLY AND RETURN LINES TO DRAIN COMPLETELY THROUGH LOWER EQUIPMENT FIXTURES, UNIONS, AND DRAIN VALVES. INSTALL A 1/2" DRAIN VALVE WITH 3/4" HOSE THREAD AND VACUUM BREAKER OUTLET IN ALL MAIN PIPING RUNS WHICH WOULD NOT BE ABLE TO DRAIN THRU A LOWER PIECE OF EQUIPMENT.
- ALL WATER DISTRIBUTION SYSTEMS, POTABLE AND NONPOTABLE, SHALL BE IDENTIFIED BY COLOR MARKING OR METAL TAGS AS REQUIRED BY ASME A13.1.
- COPPER PIPE ABOVE GROUND SHALL BE (TYPE L) MINIMUM, SWEAT WITH WROUGHT FITTINGS
- PROVIDE UNIONS AND/OR FLANGES TO DISCONNECT ALL PERTINENT EQUIPMENT INCLUDING BUT NOT LIMITED TO PUMPS, WATER HEATERS, TANKS, FILTERS AND VALVE TRAINS.

SANITARY & VENT:

- ALL SANITARY PIPING SHALL SLOPE AT 1/4" PER FOOT FOR 2'-1/2" AND SMALLER, AT 1/8" PER FOOT FOR 3' TO 6", AND 1/16" FOR 8' AND LARGER PIPING UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- ALL HORIZONTAL DRAINS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NO MORE THAN 100 FEET APART, EXCEPT THAT THE MAXIMUM SHALL BE 50 FEET FOR DRAINS 4"Ø OR LESS, 150 FEET FOR DRAINS 10"Ø OR LARGER.
- ALL SOIL STACKS SHALL RUN FULL SIZE THROUGH THE ROOF.
- THE DIAMETER OF ALL VENTS SHALL BE AT LEAST ONE-HALF THE DIAMETER OF THE DRAIN LINE SERVED BUT NOT LESS THAN 1-1/2".

INSULATION:

- DOMESTIC HOT & COLD WATER, SUSPENDED PIPING: HEAVY DENSITY, FIBERGLASS PIPE INSULATION, 1" THICK, WITH FLAME RETARDANT VAPOR BARRIER JACKET, AS MANUFACTURED BY OWENS-CORNING OR JOHNS-MANVILLE. ALL PIPING SHALL BE INSULATED AS WELL AS ALL WATER PIPING IN EXTERIOR WALLS WHERE FREEZING MAY OCCUR.

- VENTS-EXPOSED PIPING: HEAVY DENSITY, FIBERGLASS PIPE INSULATION, 1/2" THICK, WITH FLAME RETARDANT VAPOR BARRIER JACKET, AS MANUFACTURED BY OWENS-CORNING OR JOHNS-MANVILLE WITH PVC JACKET. INSULATE INTERIOR, EXPOSED, HORIZONTAL VENT PIPING & VERTICAL LEADERS FROM VTR TO PREVENT CONDENSATION.

MATERIALS: (HUB & SPIGOT)

- ABOVE-GROUND STORM, DRAINAGE AND VENT PIPE SHALL BE: CAST-IRON PIPE, HUB & SPIGOT: ASTM A-74; CISPI 301; ASTM A888 COPPER OR COPPER-ALLOY PIPE: ASTM B-42, ASTM B-302 COPPER OR COPPER-ALLOY TUBING (TYPE K OR L); ASTM F75; ASTM B-88; ASTM B-251; ASTM B-306 GALVANIZED STEEL PIPE: ASTM A-53
- ABOVE-GROUND WATER DISTRIBUTION PIPE SHALL BE: ALL SIZES - COPPER OR COPPER-ALLOY TUBING (TYPE K OR L); ASTM B-74; ASTM B-88; ASTM B-251; ASTM B-4476" AND LARGER - GALVANIZED STEEL PIPE: ASTM A-53
- ABOVE-GROUND SOLAR PIPE SHALL BE: ALL SIZES - BRAZED COPPER OR COPPER-ALLOY PIPING (TYPE K OR L).

ABBREVIATIONS			
ABBRV	DESCRIPTION	ABBRV	DESCRIPTION
AD	ACCESS DOOR	IW	INDIRECT WASTE
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
BV	BALL VALVE	MB	MOP BASIN
CI	CAST IRON	NIC	NOT IN CONTRACT
CL	CENTER LINE	NPW	NON-POTABLE WATER
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEANOUT	RM	ROOM
CV	CHECK VALVE	SA	SANITARY
CW	COLD WATER	SE	SEWAGE EJECTOR
DFU	DRAIN FIXTURE UNITS	SK	SINK
DIA, Ø	DIAMETER	SP	SUMP PUMP
DN	DOWN	ST	STORM
DWG	DRAWING	SF	SQUARE FEET
EX	EXISTING	TMV	THERMOSTATIC MIXING VALVE
EA	EACH	TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	U.C.	UNDER COUNTER
°F	DEGREES FAHRENHEIT	UG	UNDERGROUND
FL	FLOOR	V	VENT
HD	HUB DRAIN	VB	VACUUM BREAKER
HW	HOT WATER	VTR	VENT THROUGH ROOF
HWR	HOT WATER RECIRCULATING	WC	WATER CLOSET
IM	ICE MACHINE	FCO	FLOOR CLEANOUT



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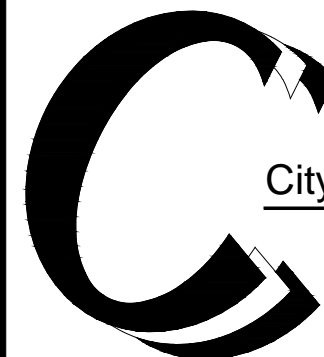
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KITCHEN EQUIPMENT

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CAPITAL PLANNING
AND CONSTRUCTION

**KITCHEN AND SERVRY
RENOVATIONS**

RICHARD J. DALEY COLLEGE
7500 S. PULASKI CHICAGO, IL. 60652

SHEET TITLE

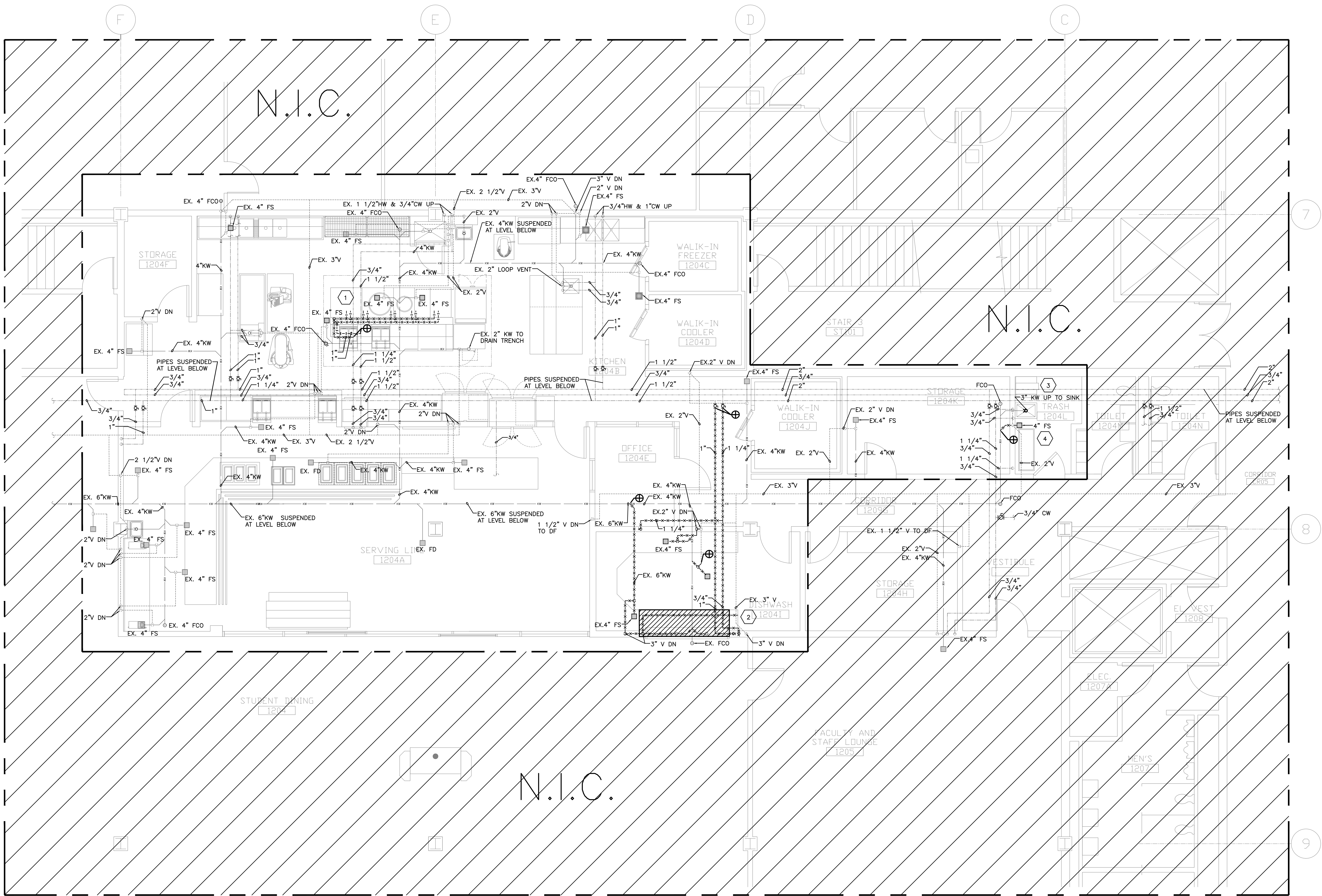
**PLUMBING NOTES &
SYMBOLS**

PROJECT NO:

SHEET NO:

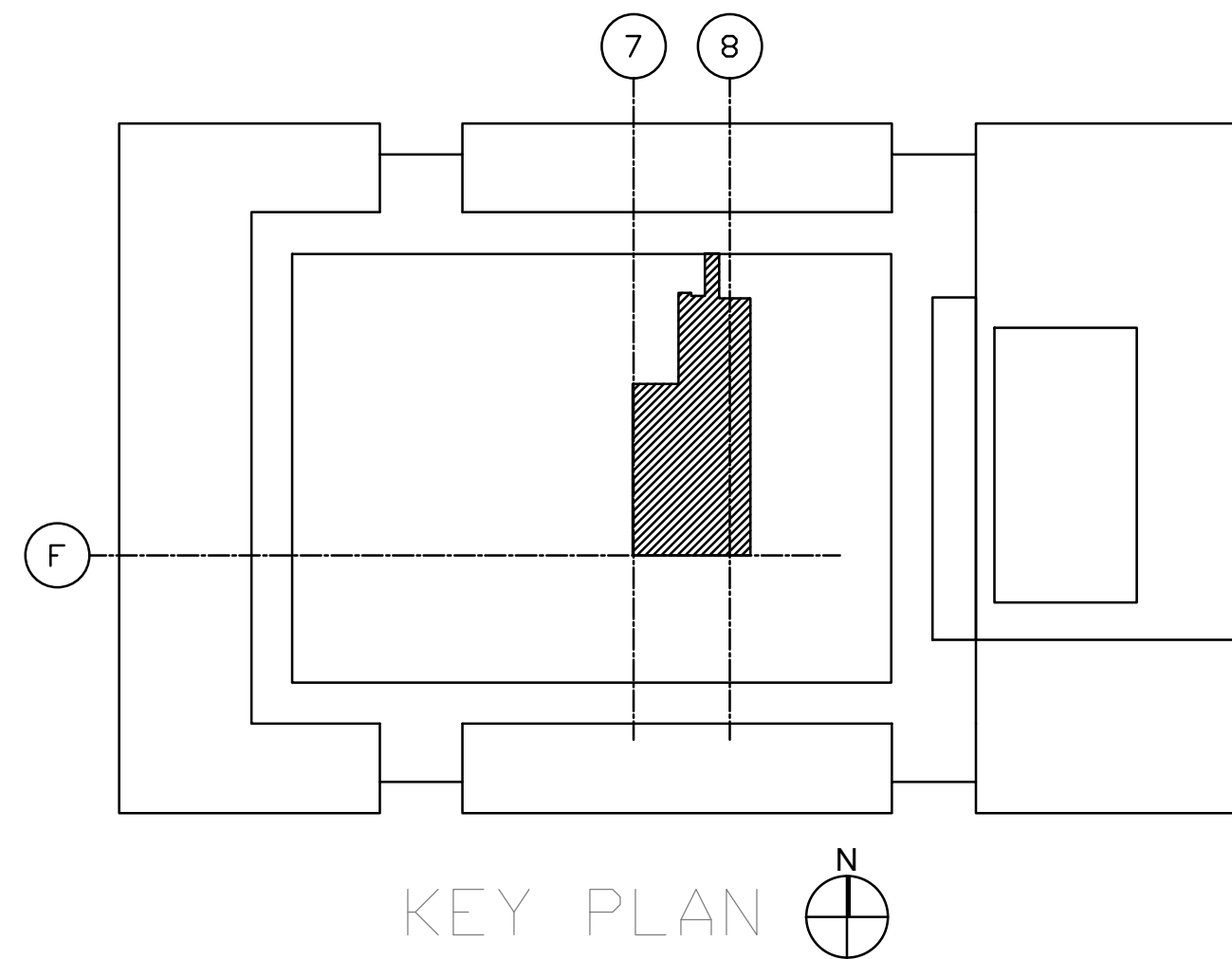
SHEET NO:

P0.1



1 DEMOLITION PLUMBING PLAN
SCALE: 1/4" = 1'-0"

- PLUMBING DEMO WORK
KEYED NOTES:
- 1 REMOVE CW AND HW PIPING TO DEMOLISHED EQUIPMENT BACK TO THE MAINS, NO DEAD-LEGS ARE PERMITTED.
 - 2 REMOVE EXISTING DISHWASHER, WORK SINK AND ASSOCIATED PIPING BACK TO THE MAINS, NO DEAD-LEGS ARE PERMITTED.
 - 3 REPLACE EXISTING FLOOR SINK AND MOP SINK DRAIN AND PREPARE PIPING FOR NEW FIXTURES.
 - 4 REMOVE EXISTING FLOOR SINK BACK TO THE MAINS, NO DEAD-LEGS ARE PERMITTED.



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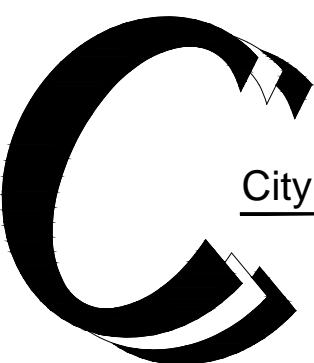
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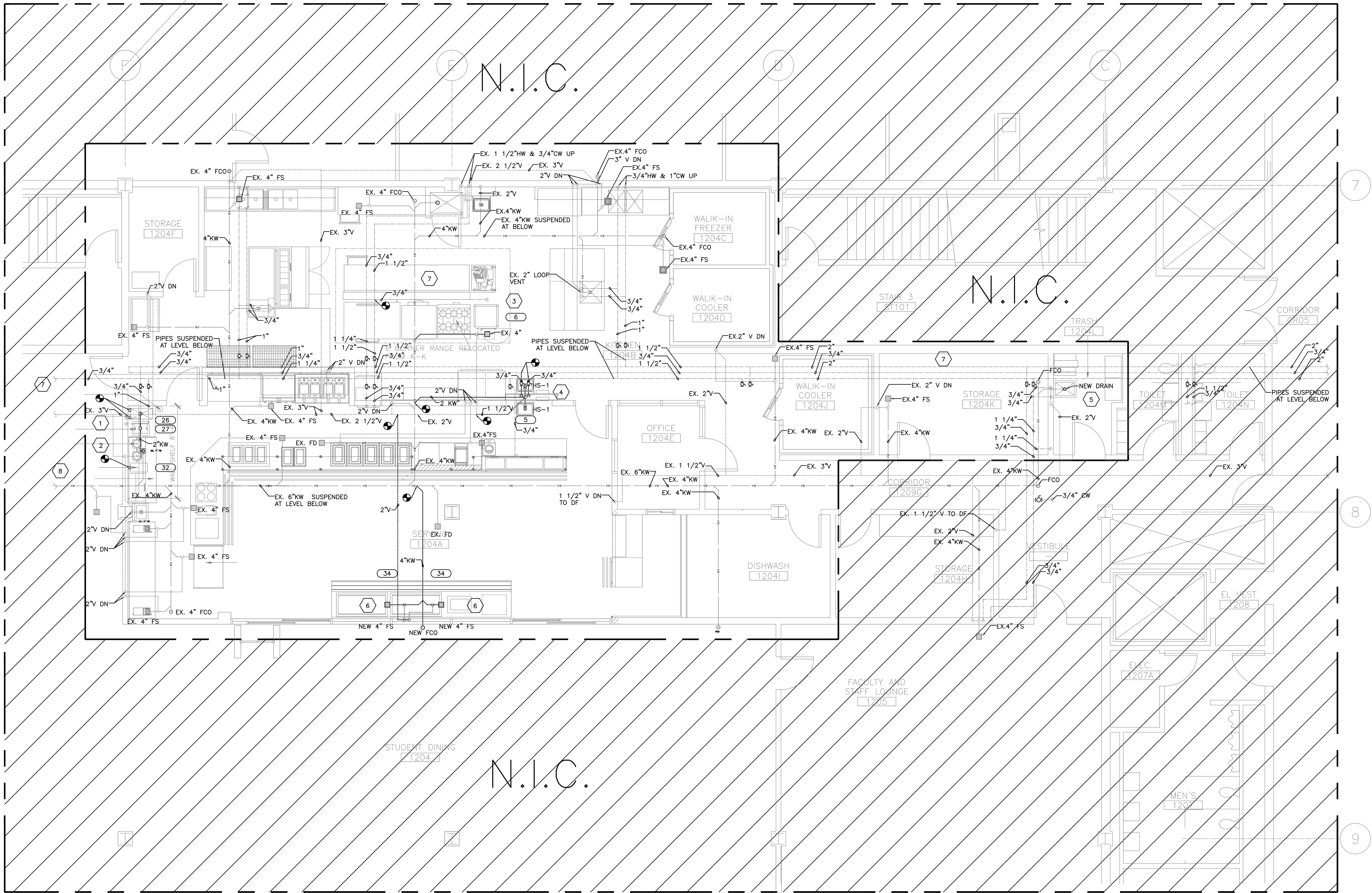
DEMO PLUMBING PLAN

PROJECT NO.

SCALE

SHEET NO.

P1.0



FOOD SERVICE EQUIPMENT			MECHANICAL SCHEDULE						
ITEM NUMBER	QUANTITY	ITEM DESCRIPTION	WATER CONNECTIONS				DRAINS		
			HOT WATER SIZE	COLD WATER SIZE	STUB UP HEIGHT	EQUIP. HEIGHT	HV. CONSUMPTION GAL. PER HOUR	IND. WASTE SIZE	DIRECT WASTE SIZE
5	2	HAND SINKS	5"	5"	12"	40"		FS	1.5"
6	1	STEAMER			75"				
26	1	WORK COUNTER W/ SINK	5"	5"	12"	40"			
32	1	BLENDER RINSER		5"	50"	50"			
			REMARKS						
			USE EXISTING FS						

PLUMBING NEW WORK KEYED NOTES:

- 1 PROVIDE NEW WORK TABLE SINK WITH 1/2" CW, 1/2" HW, VALVE. RE-USE EXISTING FLOOR SINK. INSULATE WATER SUPPLY PIPING, TIE INTO EXISTING PLUMBING SYSTEM.

2 PROVIDE 3/4" CW AND RE-USE EXISTING FLOOR SINK. INSULATE WATER SUPPLY PIPING, TIE INTO EXISTING PLUMBING SYSTEM.

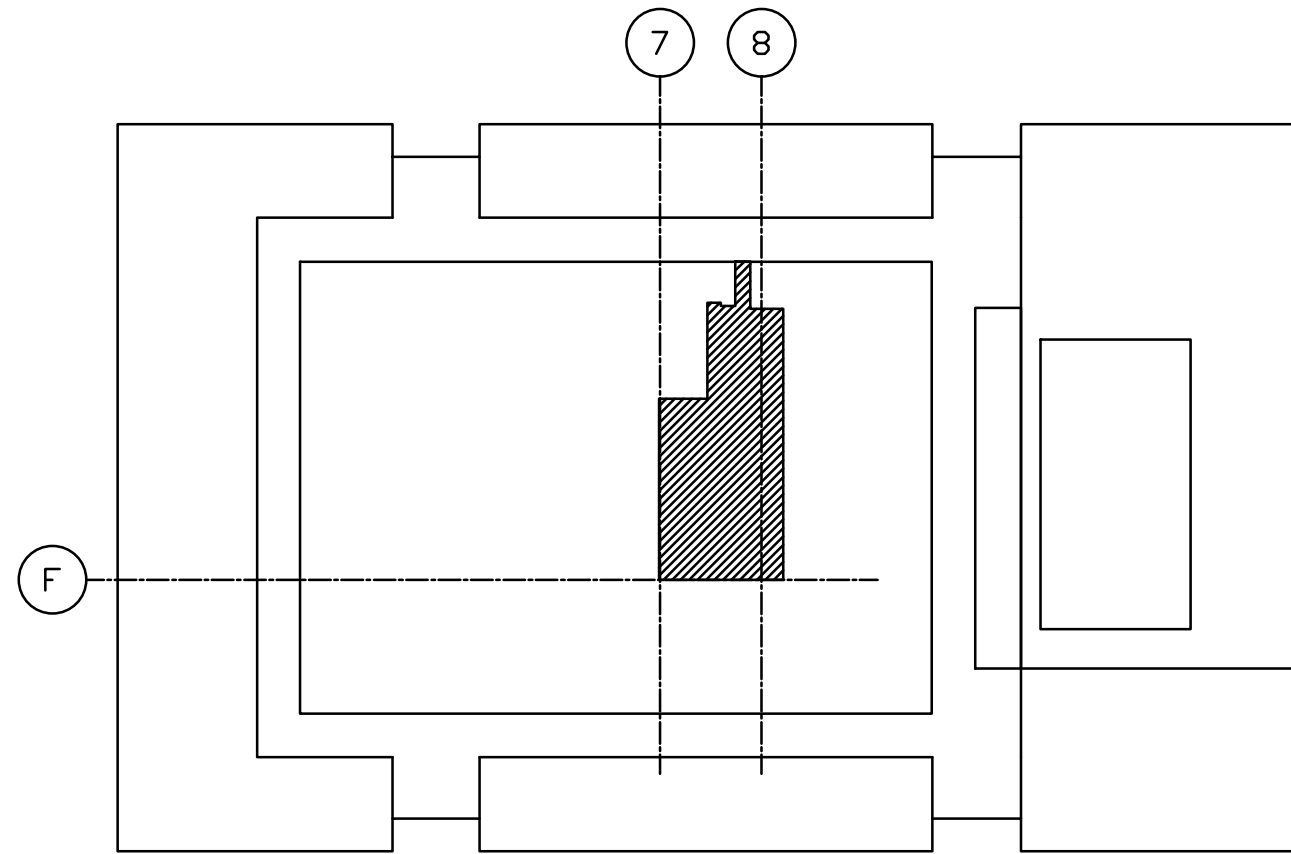
3 PROVIDE 3/4" CW AND RE-USE EXISTING FLOOR SINK. INSULATE WATER SUPPLY PIPING, TIE INTO EXISTING PLUMBING SYSTEM.

4 PROVIDE NEW BACK TO BACK WALL MOUNTED HAND SINKS WITH 1/2" CW, 1/2" HW, VALVE, 1-1/2" W & 1-1/2" V. INSULATE WATER SUPPLY PIPING, TIE INTO EXISTING SUSPENDED PLUMBING MAINS BELOW.

5 REPLACE EXISTING FLOOR SINK AND MOP SINK DRAIN, THEN PREPARE PIPING FOR NEW FIXTURES.
- 6 PROVIDE (2) NEW 4" FLOOR SINKS FOR SALAD BAR CONDENSATE DRAINS, CONNECT TO EXISTING PLUMBING SYSTEMS.

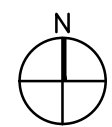
7 PRIOR TO THE START OF CONSTRUCTION, ALL EXISTING PLUMBING SYSTEMS TO BE RE-USED SHALL BE SURVEYED BY THE CONTRACTOR FOR DEFECTS AND TESTED PER CITY OF CHICAGO COLLEGE STANDARDS AND CHICAGO BUILDING CODE - #18-29-312, 18-29-606.6 AND 18-29-703.4.

8 CONTRACTOR SHALL CLEAN THE EXISTING EXTERIOR GREASE TRAP AND SANITARY LINE OUT TO THE CITY'S SEWER MAIN.



1 NEW WORK PLUMBING PLAN

SCALE: 1/4" = 1'-0"



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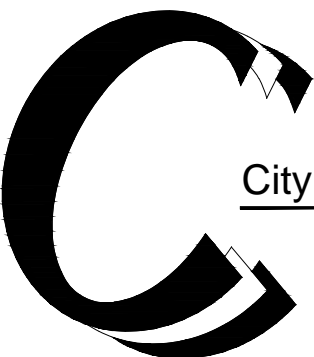
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CAPITAL PLANNING
AND CONSTRUCTION

KITCHEN AND SERVERY RENOVATIONS

RICHARD J. DALEY COLLEGE
7500 S. PULASKI CHICAGO, IL 60652

SHEET TITLE

NEW WORK PLUMBING PLAN

PROJECT NO.

SHEET NO.

P2.0

MINIMUM PLUMBING FIXTURE CONNECTIONS						
COUNT	TAG	FIXTURE	DOMESTIC WATER		SANITARY	
			CW (IN)	HW (IN)	DRAIN (IN)	VENT (IN)
1	KS	KITCHEN SINK	1/2	1/2	1-1/2	1-1/2
4	LAV	LAVATORY	1/2	1/2	1-1/2	1-1/2
4	WC	WATER CLOSET	1/2	N/A	4	2
2	BT	BATH TUB	1/2	1/2	2	1-1/2
2	SH	SHOWERS	1/2	1/2	2	1-1/2
1	BS	BAR SINK	1/2	1/2	2	1-1/2
1	SM	STEAM GENERATOR	3/8		2	1-1/2

SINK (HS) SCHEDULE								
TAG	TYPE	GPM	MANUFACTURE	MODEL	TYPE	FAUCET MANUFACTURE	FAUCET MODEL	NOTES
HS-1	15 1/2"x16 3/4"	1.5	ELKAY	PROFESSIONAL SERIES CHS1716C	STAINLESS STEEL WALL MOUNT	ELKAY	COMMERCIAL FAUCET #LK940GN08T4H 8" GOOSENECK	1.2
NOTES: 1. PROVIDE COPPER WATER SUPPLY TUBING AND CHROME PLATED 17 GAUGE P-TRAP AND 1/2" ANGLE STOPS 2. SEE MFR. SPECIFICATION SHEET PRIOR TO INSTALL.								

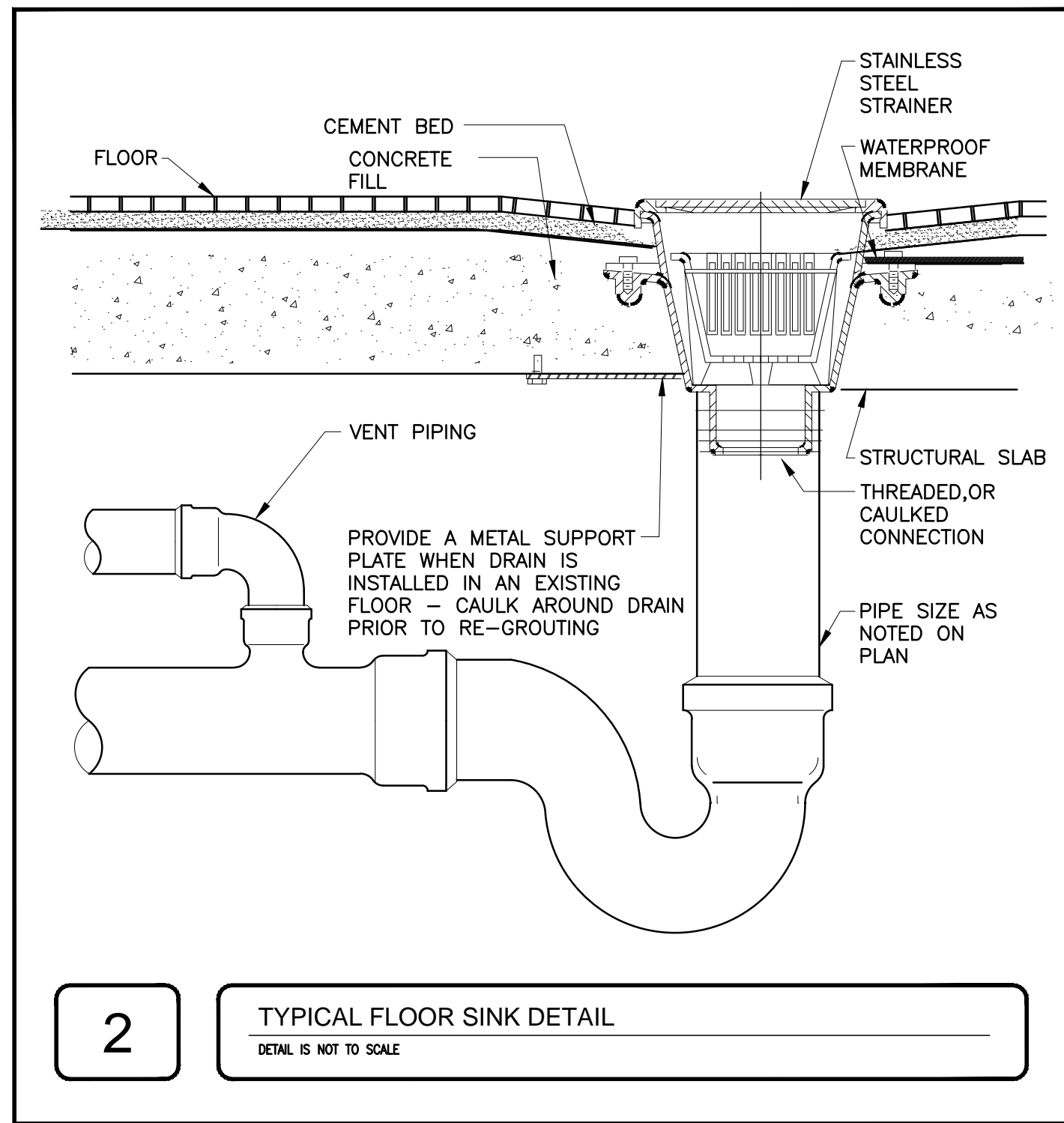
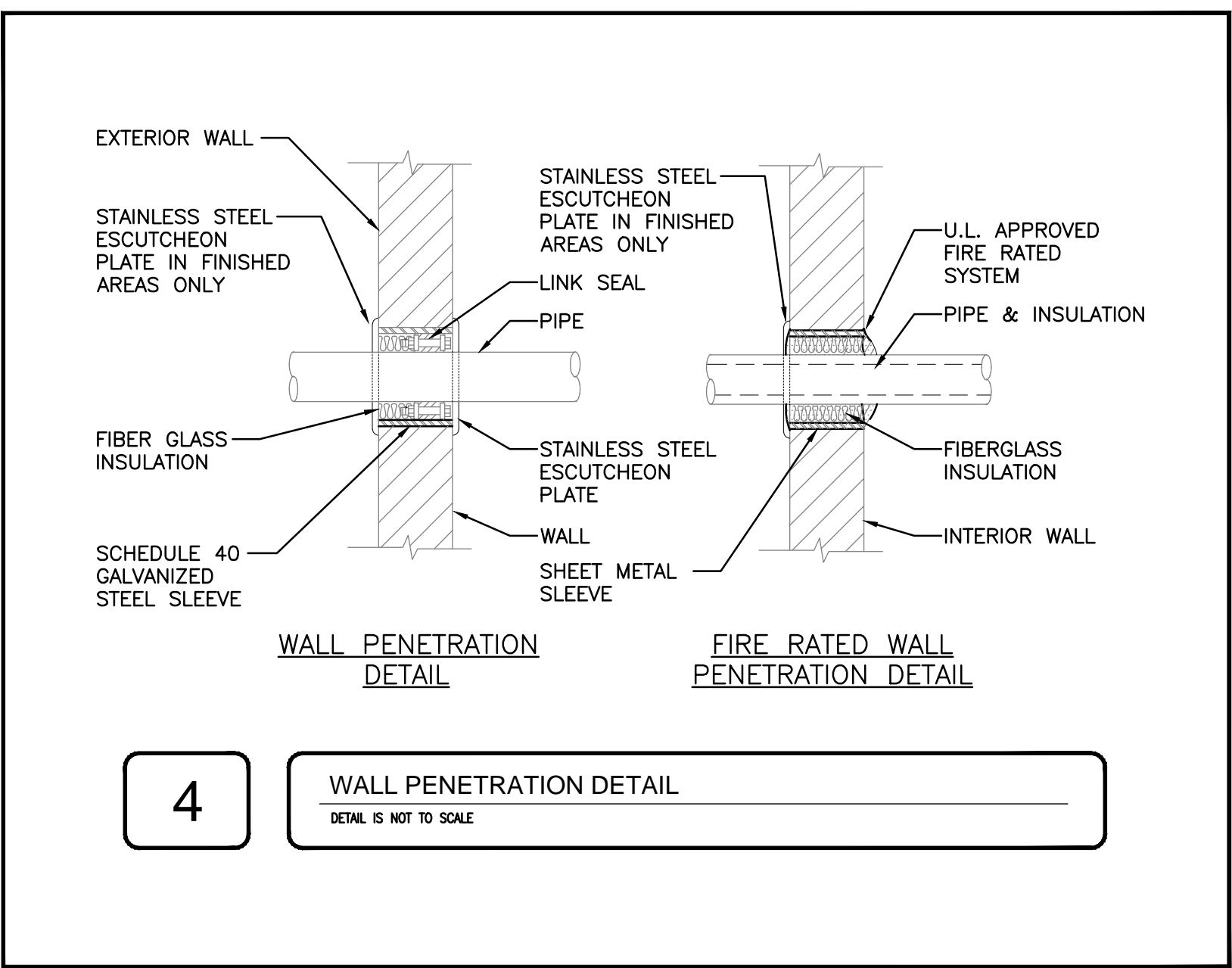
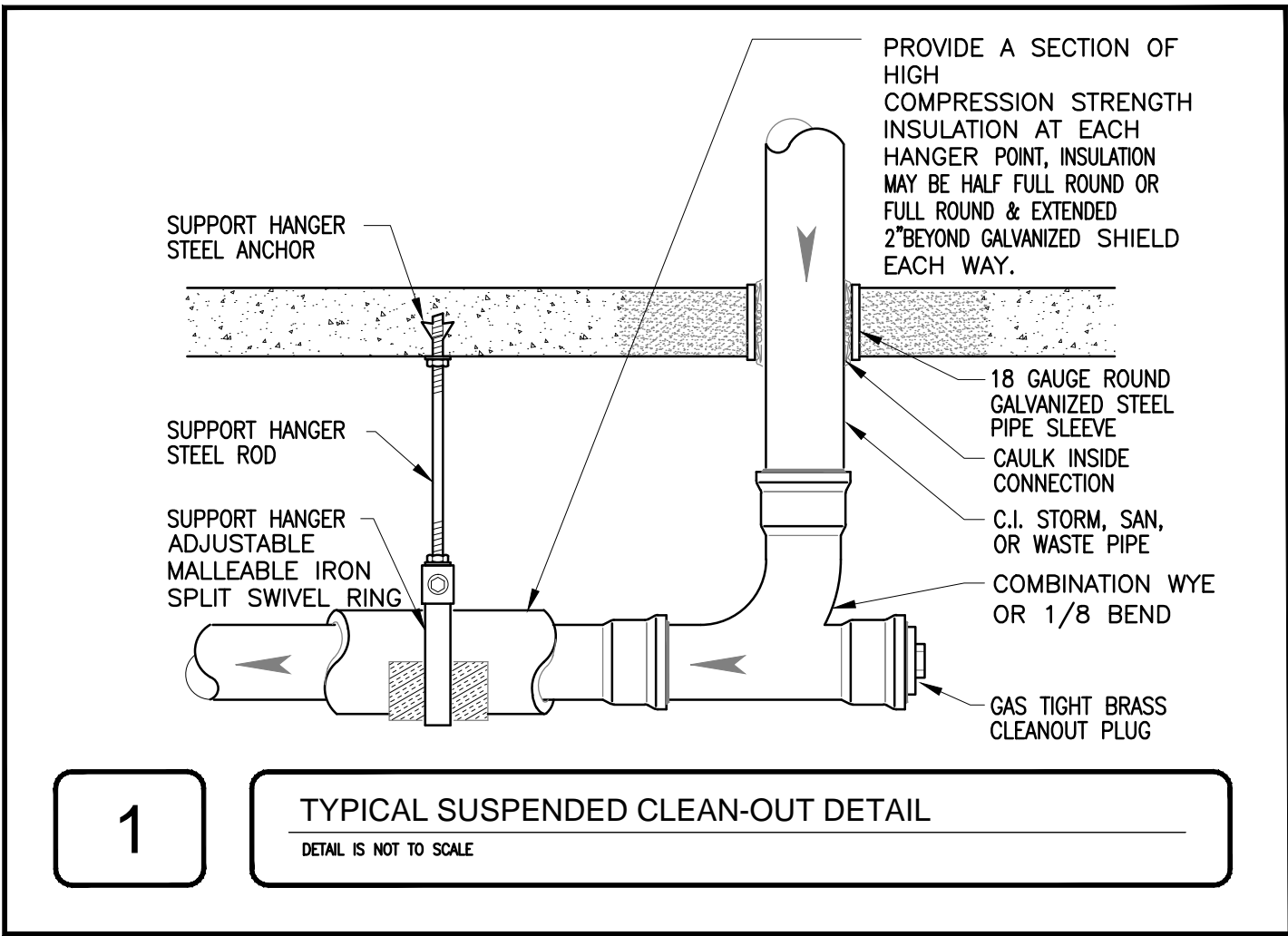


EXHIBIT I

Recent Kitchen Upgrades and New Venues - Drawings OLIVE-HARVEY COLLEGE and OLIVE-HARVEY COLLEGE TDL CAFÉ (Future State)

KITCHEN AND SERVERY UPGRADES to OLIVE-HARVEY COLLEGE

10001 SOUTH WOODLAWN AVE, CHICAGO, IL 60628



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Architect:

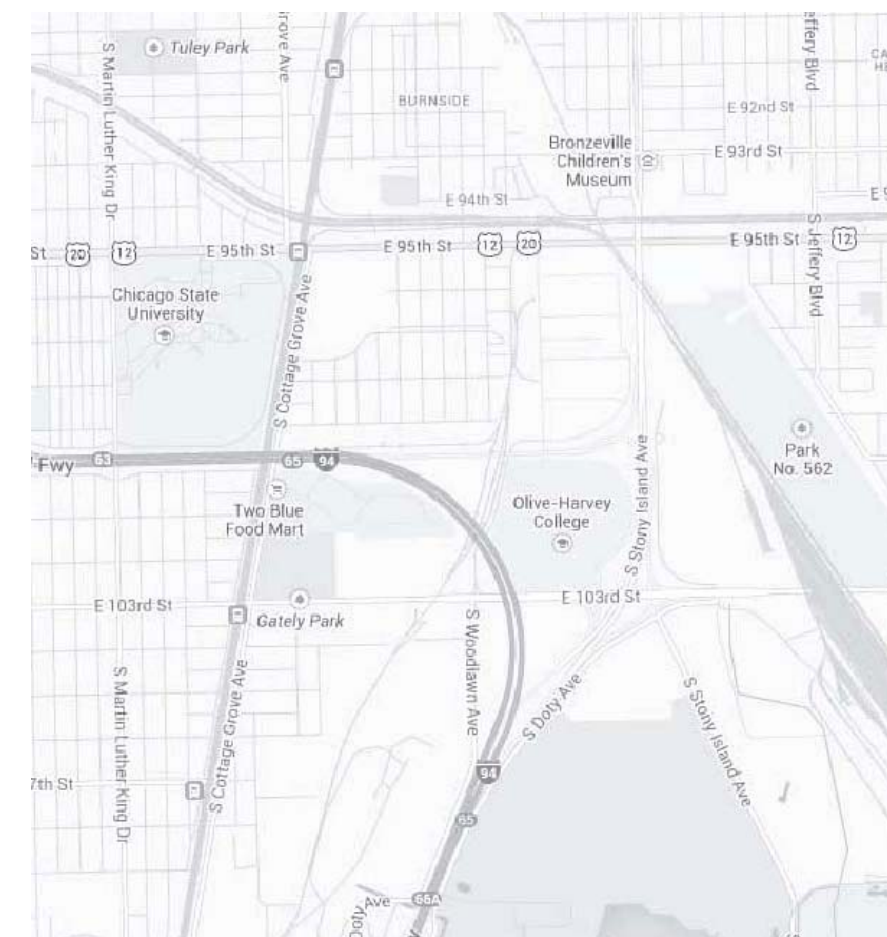
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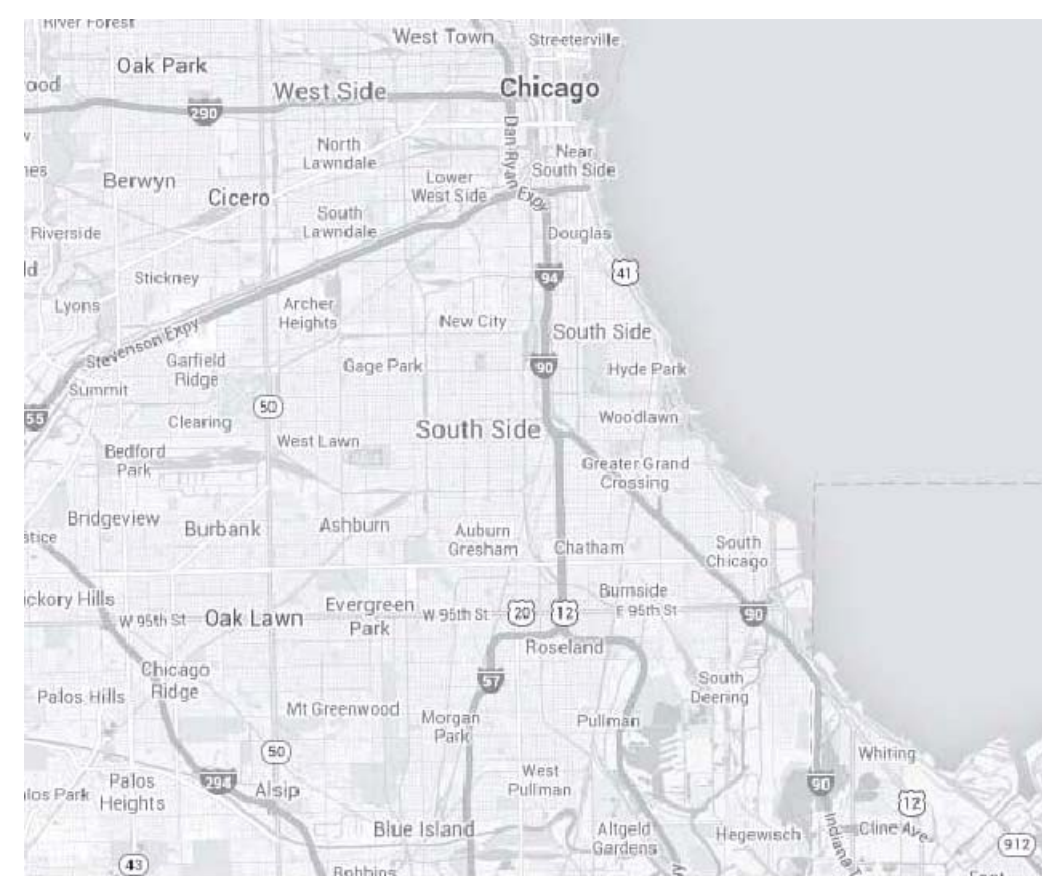
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JUNE 27, 2014

CITY OF CHICAGO GENERAL BUILDING REQUIREMENTS								
GENERAL BUILDING REQUIREMENTS Per Chicago Zoning Ordinance (CZO) 2013 Edition and Chicago Building Code (CBC) 2014 Edition								
ITEM	ISSUE	CHAPTER/ARTICLE	Ordinance Requirement	Actual	Requirement	Location / Sheet No.	Agency / Test No.	REMARKS
PART 1 - ZONING REQUIREMENTS								
N/A (INTERIOR RENOVATION)								
PART 2 - BUILDING REQUIREMENTS								
2.01	Occupancy Classification (s)	3 (13-56) page 115	C-3 SCHOOLS	C-3 SCHOOLS				
2.02	Height and Area Limitations	5 (13-48) page 323			N/A			
2.03	Types of Construction	6 (13-60) page 329	Type 1-A	Type 1-A				
2.04	Mixed Occupancy Separations	3 (13-56-280) page 118			N/A			
2.05	Req. Hrs of Fire Resistance	6 (13-60-100) page 430						
	1. Exterior Bearing Walls	Table 6 (13-60-100)						
	2. Exterior Non-Bearing Walls	Table 6 (13-60-100)						
	3. Interior Bearing Walls	Table 6 (13-60-100)						
	4. Interior Non-Bearing Walls	Table 6 (13-60-100)	NON-COMBUSTIBLE					
	5. Exterior Columns	Table 6 (13-60-100)	N/A					
	6. Int. Cols Supporting Roofs Only	Table 6 (13-60-100)	N/A					
	7. Beams	Table 6 (13-60-100)	N/A					
	h. Beams Supporting Roofs Only	Table 6 (13-60-100)	N/A					
	8. Floor Construction	Table 6 (13-60-100)						
	9. Roof Construction	Table 6 (13-60-100)	N/A					
2.06	Elevator Framing	6 (13-60-130) page 331	N/A		N/A			
2.07	Mezzanine Floors	6 (13-60-130) page 332	N/A		N/A			
2.08	Basement Construction	6 (13-60-170) page 332	N/A		N/A			
2.09	Driveways and Loading Spaces	6 (13-60-210) page 332	N/A		N/A			
2.10	Fire Resistive Requirements	7 (15-8) page 335						
	a. Fire Walls - Construction	7 (15-8-010) page 335	N/A					
	b. Parapets	7 (15-8-100) page 335-6	N/A					
	c. Stairway Enclosures	7 (15-8-140) page 337	N/A		N/A			
	d. Elevator Enclosures	7 (15-8-150) page 337						
	e. Enclosures of Heating Rooms	7 (15-8-190) page 328						
	f. Enclosures of Wells and Chutes	7 (15-8-170) page 338						
	g. Other Enclosures	7 (15-8-240) page 339						
	h. Int. Wall and Ceiling Finishes	7 (15-8-380) page 341						
	i. Storage Rooms Over 100 s.f.	7 (15-8-240)(b) page 339						
2.11	Fire-Resistive Materials and Const.	7 (15-12) page 348						
2.12	Accepted Engineering Practices and Recognized Agencies	7 (15-12-050)	ASTM/UL	ASTM/UL				
2.13	Fire Protection Equipment	9 (15-16) page 361						
	a) Sprinkler Systems	9 (15-16-010) page 334	N/A					
	b) Special Requirements	9 (15-16-030) page 362	N/A					



LOCATION PLAN



SITE PLAN

DRAWING INDEX

ARCHITECTURAL
A1.1 DEMOLITION PLAN
A2.1 SERVERY AND KITCHEN FLOOR PLAN
A2.2 REFLECTED CEILING PLAN
A3.1 FLOOR FINISHES PLAN
A3.2 INTERIOR ELEVATIONS
A4.1 INTERIOR WALL DETAILS

FOOD SERVICE EQUIPMENT
FS1 FOOD SERVICE EQUIPMENT PLAN
FS2 FOOD SERVICE UTILITY SCHEDULES
FS3 FOOD SERVICE PLUMBING PLAN
FS4 FOOD SERVICE ELECTRICAL PLAN
FS5 FOOD SERVICE EQUIPMENT DETAILS

MECHANICAL
M0.1 MECHANICAL NOTES AND SYMBOLS
M1.0 MECHANICAL DEMO PLAN
M2.0 NEW WORK - MECHANICAL PLAN

ELECTRICAL
E0.1 ELECTRICAL NOTES AND SYMBOLS
E1.0 DEMO POWER PLAN
E1.1 DEMO LIGHTING PLAN
E2.0 NEW WORK - POWER PLAN
E3.0 NEW WORK - LIGHTING PLAN
E5.0 ELECTRICAL SCHEDULES
E5.1 ELECTRICAL SCHEDULES
E5.2 LIGHTING SCHEDULE
E6.0 ELECTRICAL DETAILS

PLUMBING
P0.1 PLUMBING NOTES AND SYMBOLS
P1.0 PLUMBING DEMO PLAN
P2.0 NEW WORK - PLUMBING PLAN
P5.0 PLUMBING DETAILS AND SCHEDULES

I CERTIFY THAT I AM A REGISTERED ENERGY PROFESSIONAL (REP). I ALSO CERTIFY THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF, THESE PLANS FULLY COMPLY WITH THE REQUIREMENTS OF CHAPTER 18-13, ENERGY CONSERVATION, OF THE MUNICIPAL CODE OF CHICAGO.

DATE _____ LIC. EXP. DATE _____

PAUL REICH

THESE PLANS WERE PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, CONFORM TO ALL APPLICABLE CODES AND ORDINANCES

DATE _____ LIC. EXP. DATE _____

ROULA ALAKIOTOU

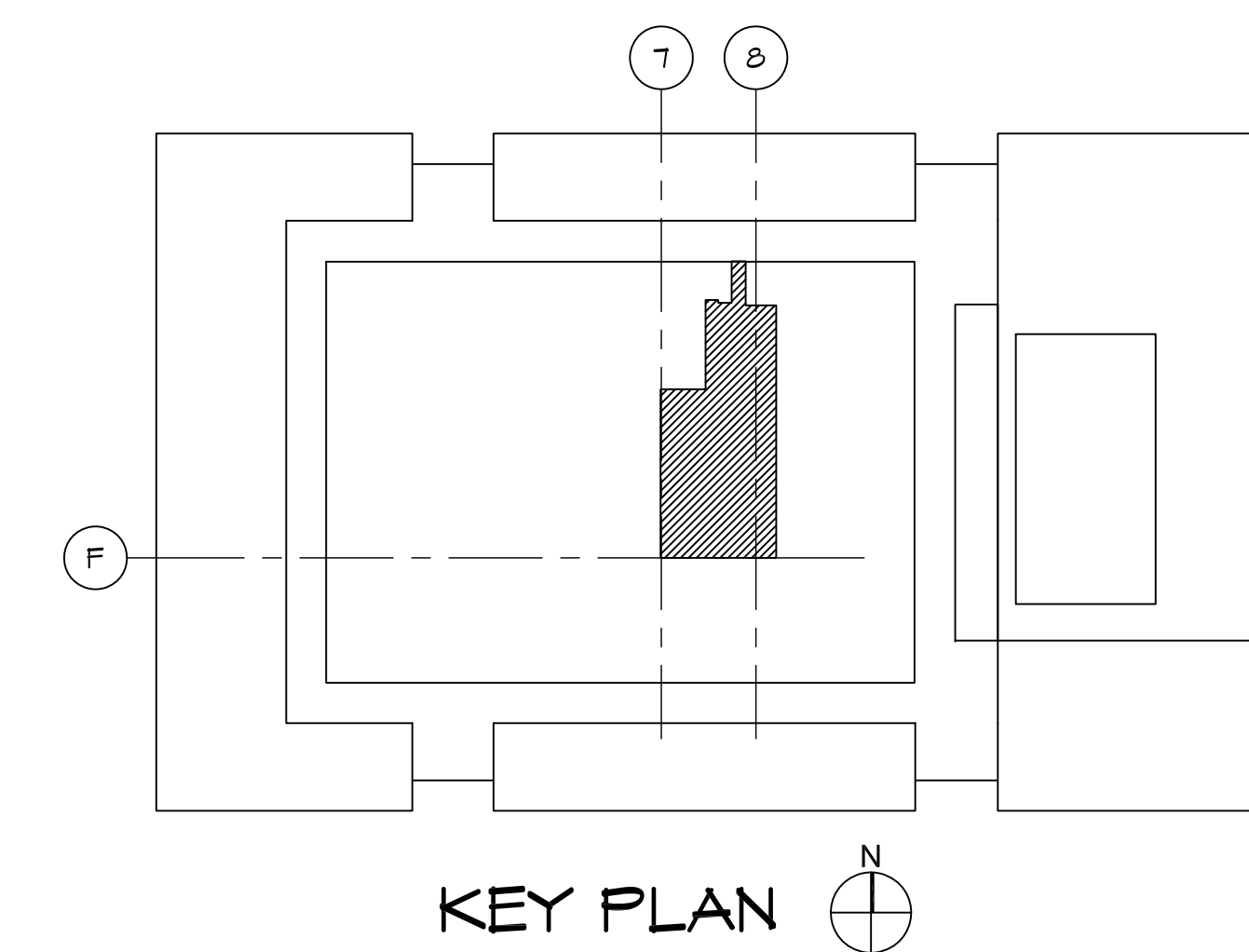


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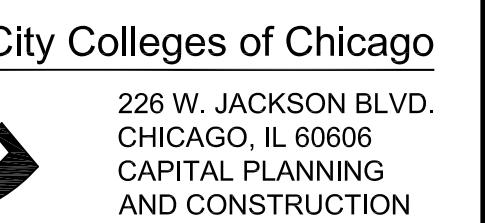
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ALL EXISTING EQUIPMENT THAT REMAINS AND EXISTING EQUIPMENT RELOCATED FROM OTHER CITY COLLEGES, IS TO BE THOROUGHLY CLEANED.



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1	04-18-14	SCHEMATIC DESIGN
NO.	DATE	REVISIONS



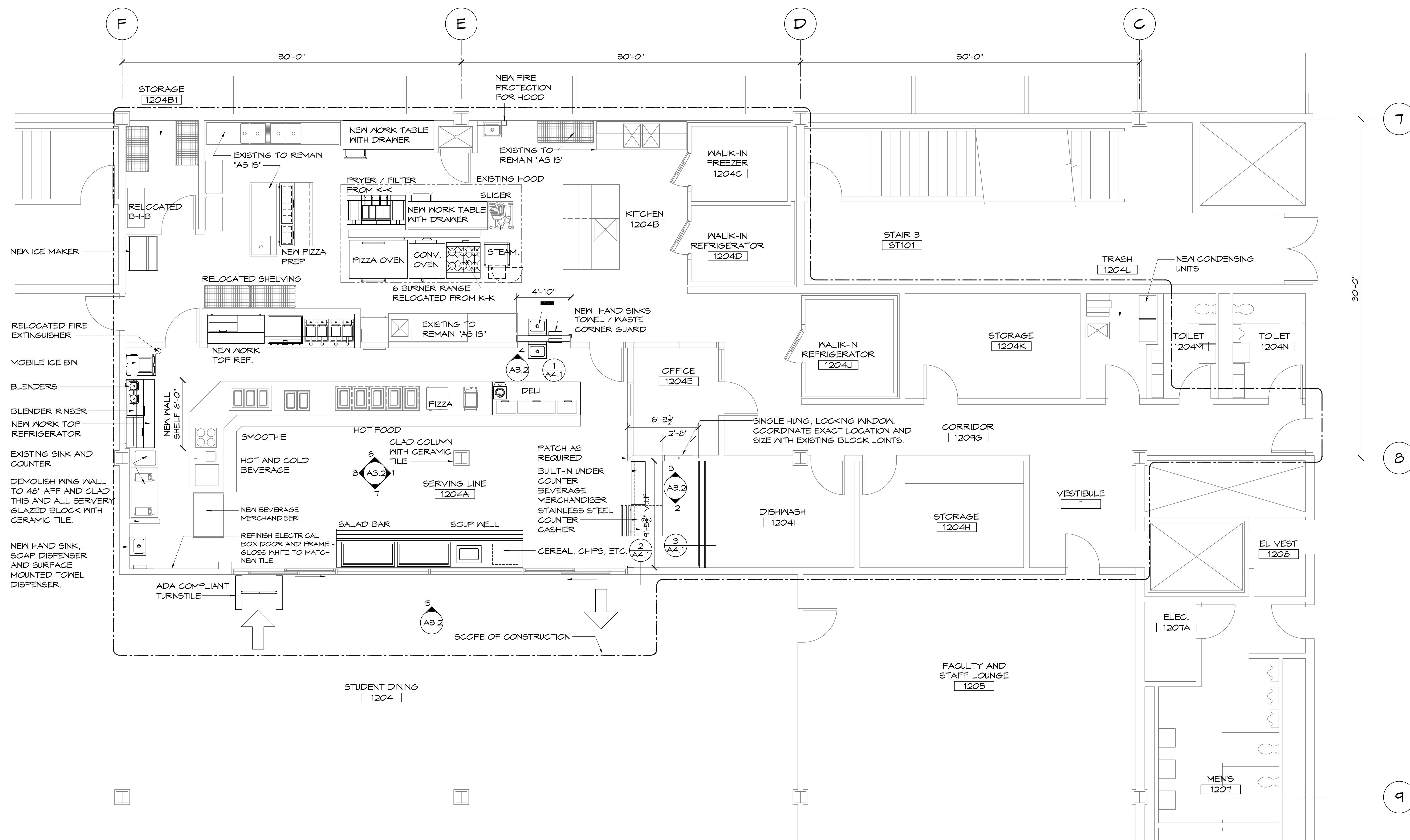
KITCHEN AND SERVERY RENOVATIONS

OLIVE HARVEY COLLEGE
10001 SOUTH WOODLAWN AVENUE
CHICAGO, ILLINOIS 60628

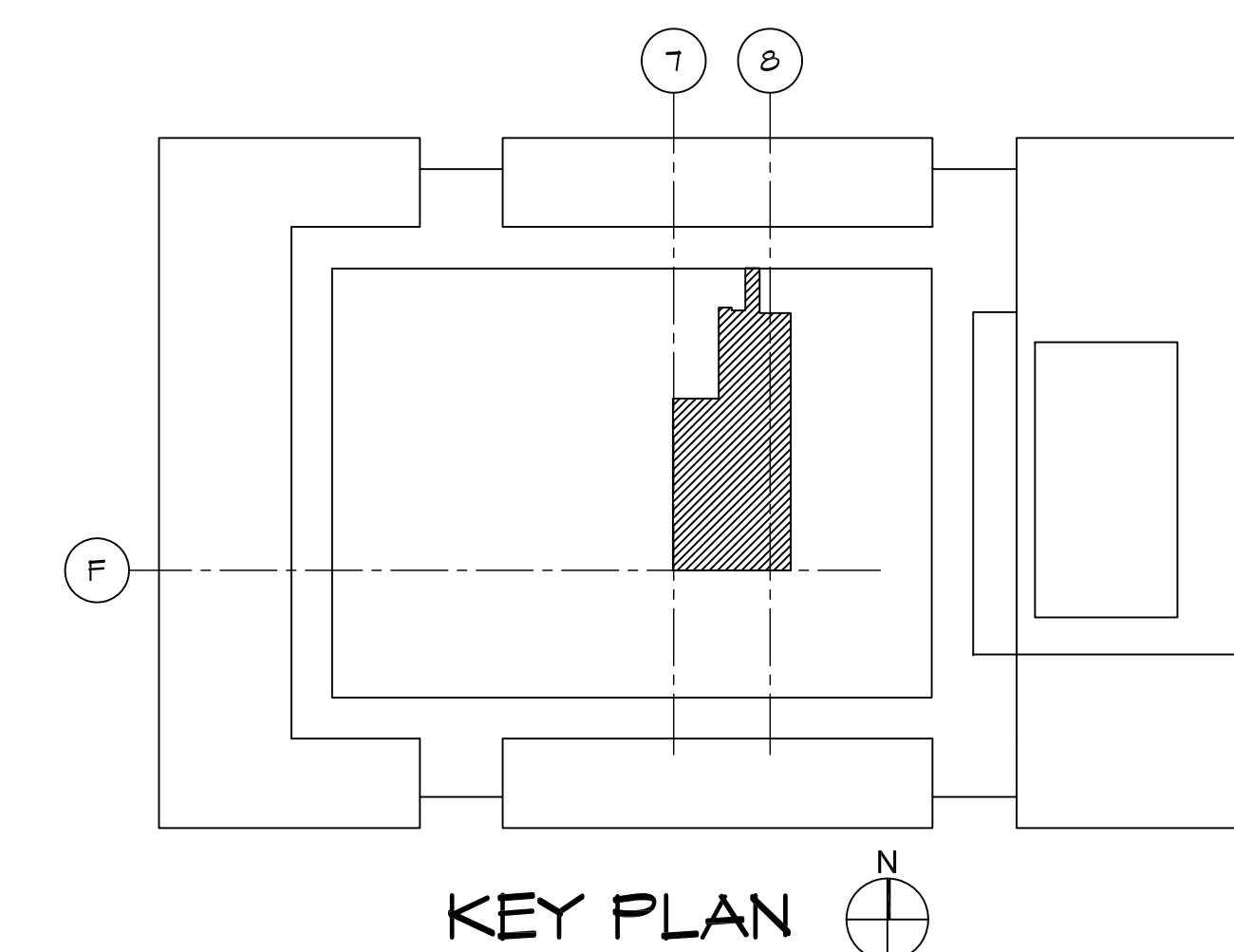
DEMOLITION PLAN

PROJECT NO:	1401	SHEET NO.
SCALE:	1/4" = 1'-0"	

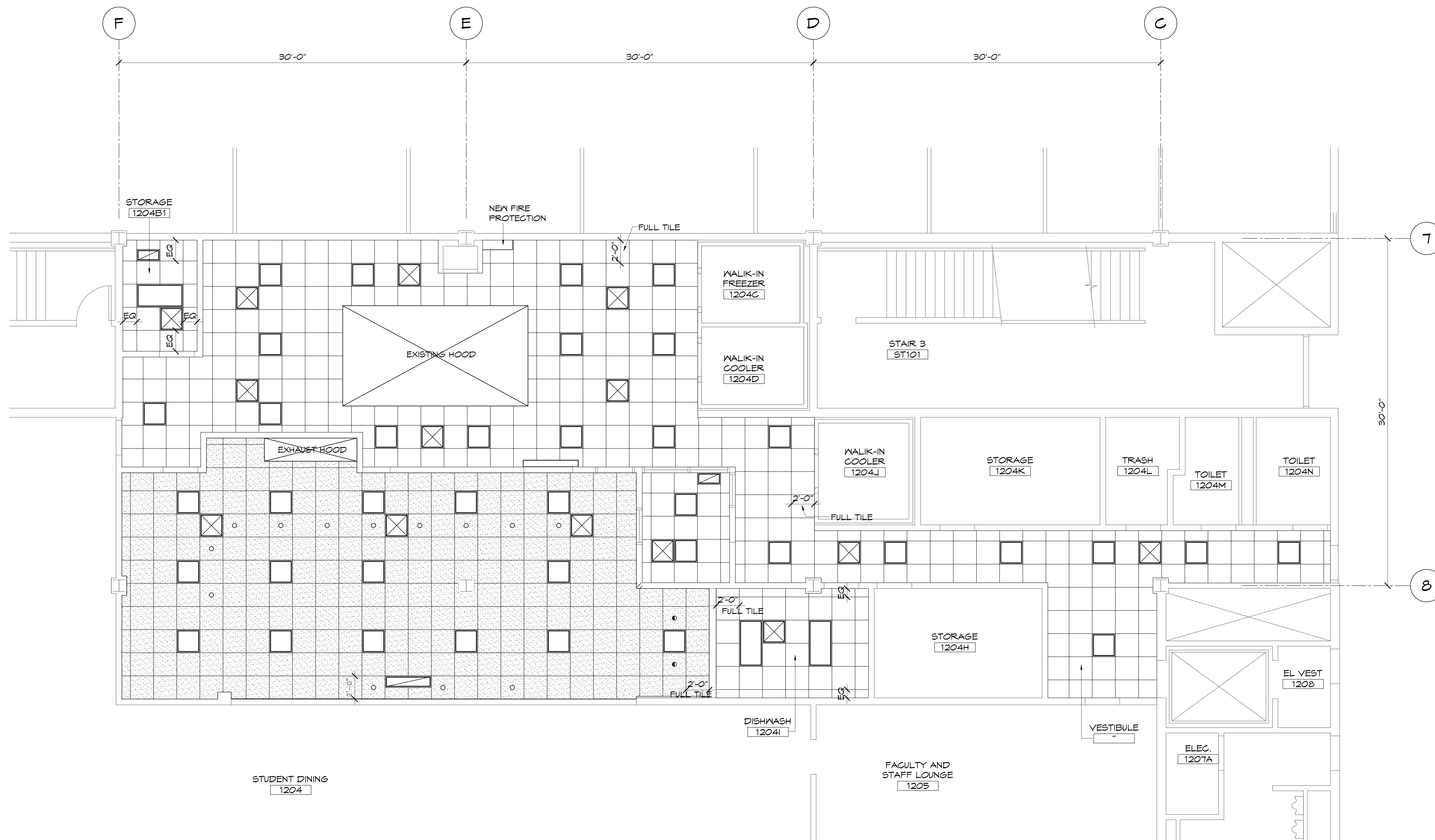
A1.1



1 KITCHEN / SERVERY FLOOR PLAN
 SCALE: 1/4" = 1'-0"

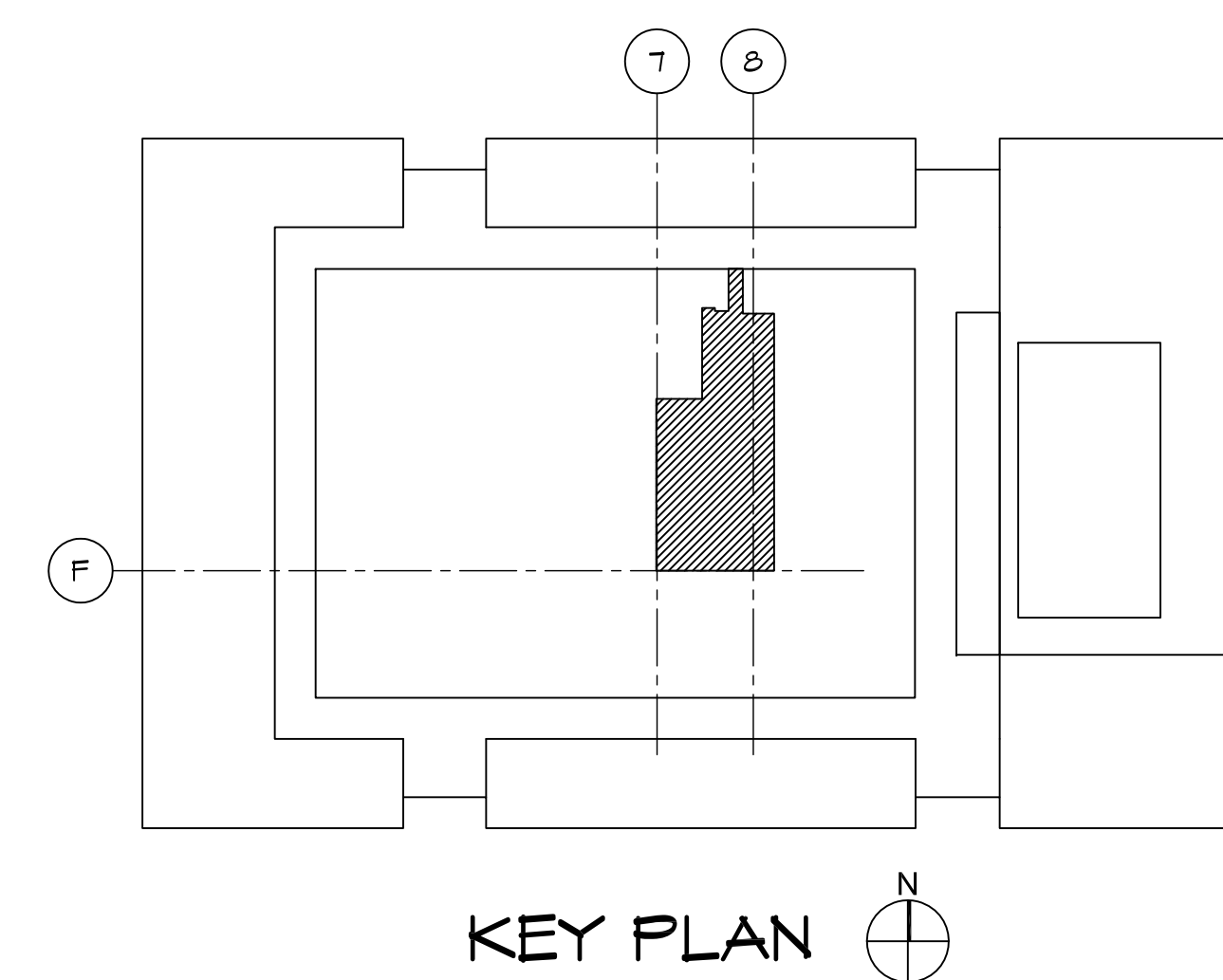


NO.	DATE	REVISIONS
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2	05-16-14	75% DESIGN DOCUMENTS
1	04-18-14	SCHEMATIC DESIGN



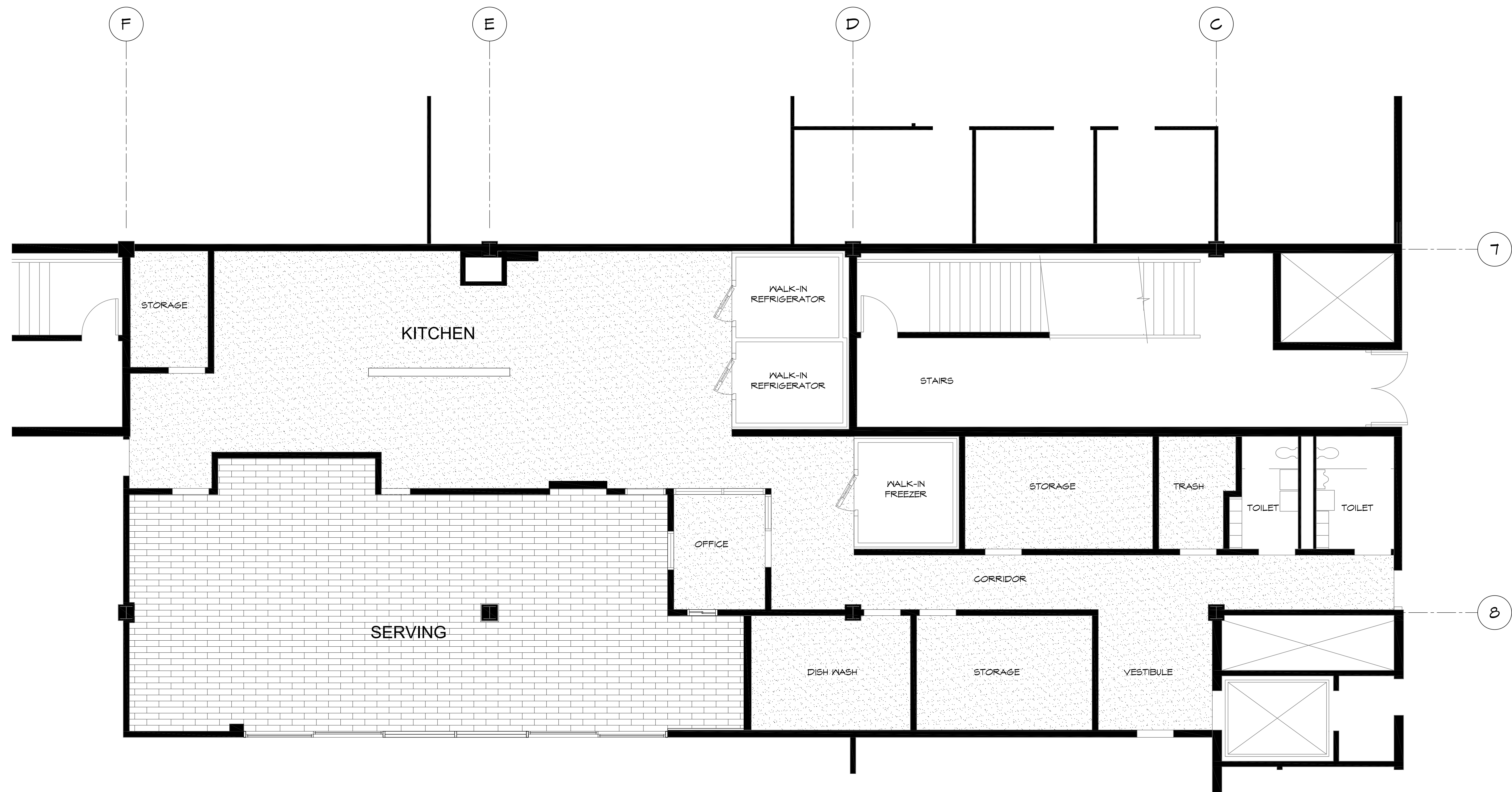
1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

LEGEND			
	2X2 ACOUSTICAL CEILING TILE WITH VINYL-LAMINATED FACE AND SEALED BACK AND EDGES.		2X2 LIGHT FIXTURE
	2X2 ACOUSTICAL CEILING TILE WITH WATER REPELLENT MEMBRANE.		PENDANT LIGHT FIXTURE
	2X4 LIGHT FIXTURE		RECESSED WALL WASH
			SUPPLY
			RETURN

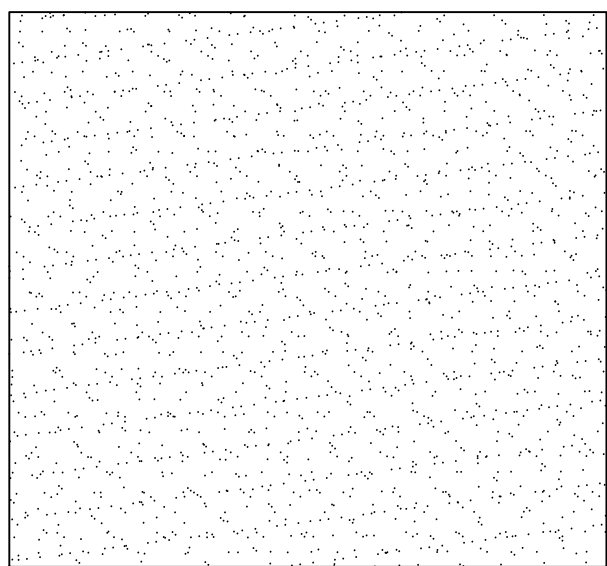


KEY PLAN

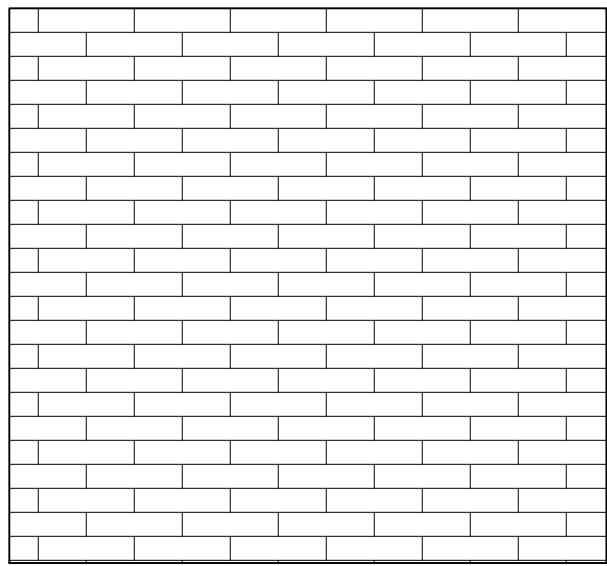
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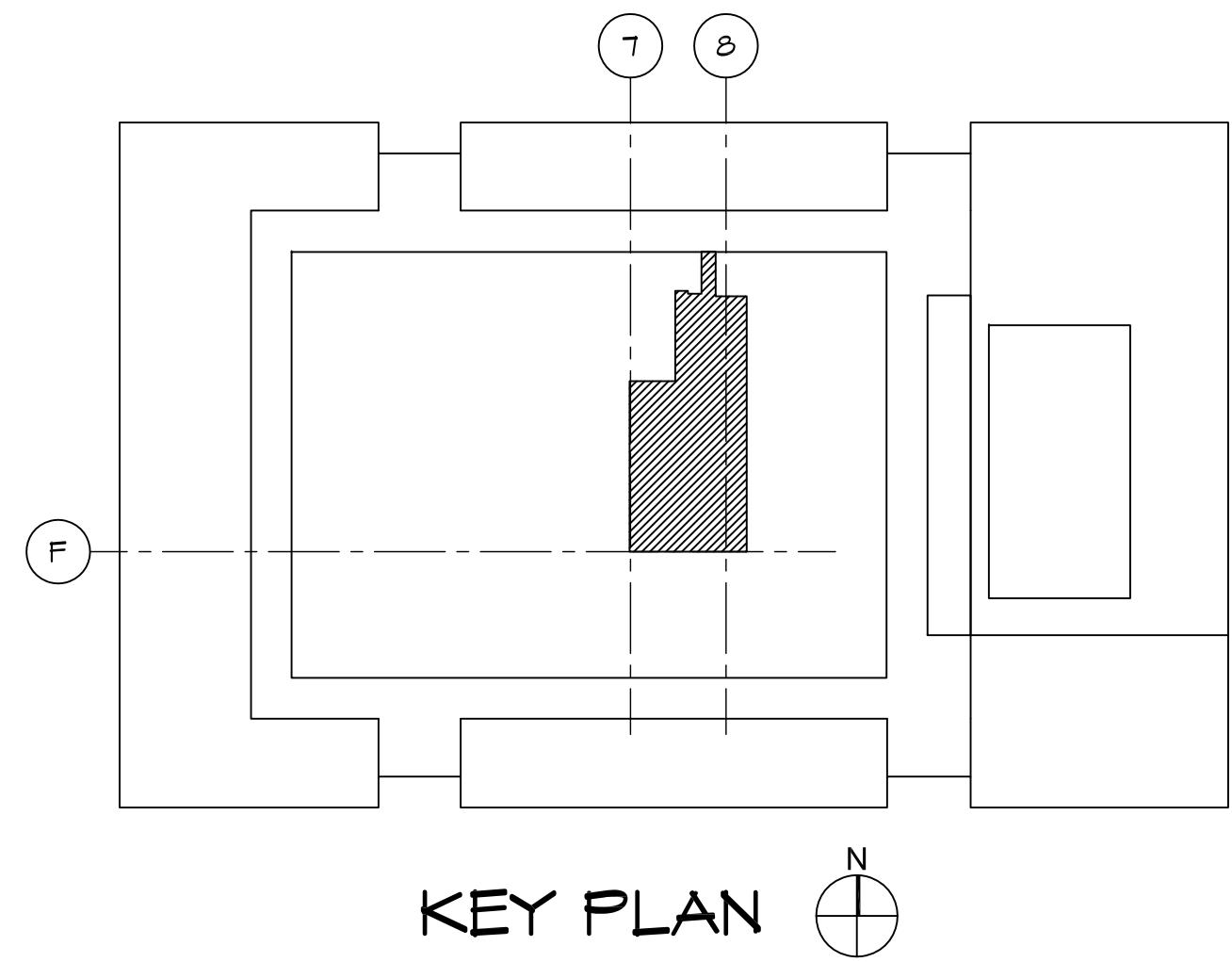
1 KITCHEN / SERVERY FLOORING PLAN
SCALE: 1/4" = 1'-0"



THOROUGHLY CLEAN FLOOR AND WALLS FROM FLOOR TO CEILING, PRIOR TO INSTALLATION OF NEW EQUIPMENT.



PORCELAIN REPLACEMENT TILE



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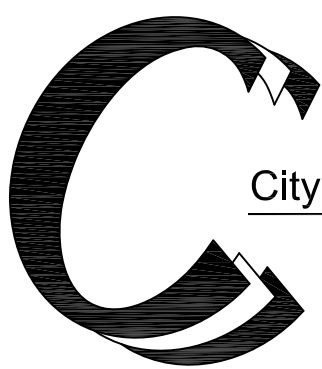
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KITCHEN EQUIPMENT

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1	04-18-14	SCHEMATIC DESIGN

NO.	DATE	REVISIONS
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KITCHEN AND SERVERY RENOVATIONS

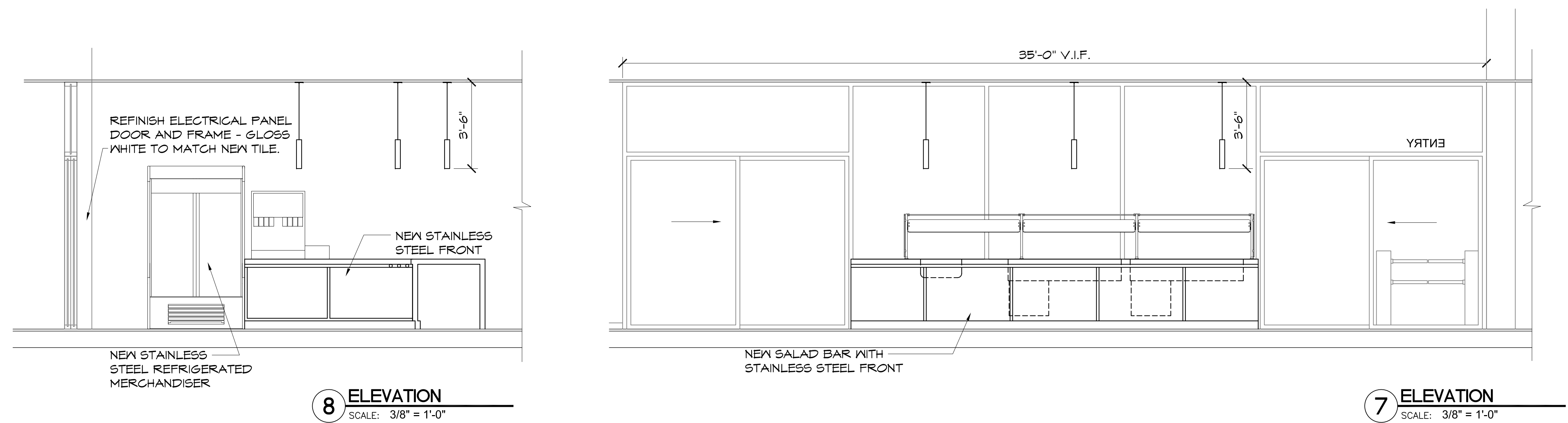
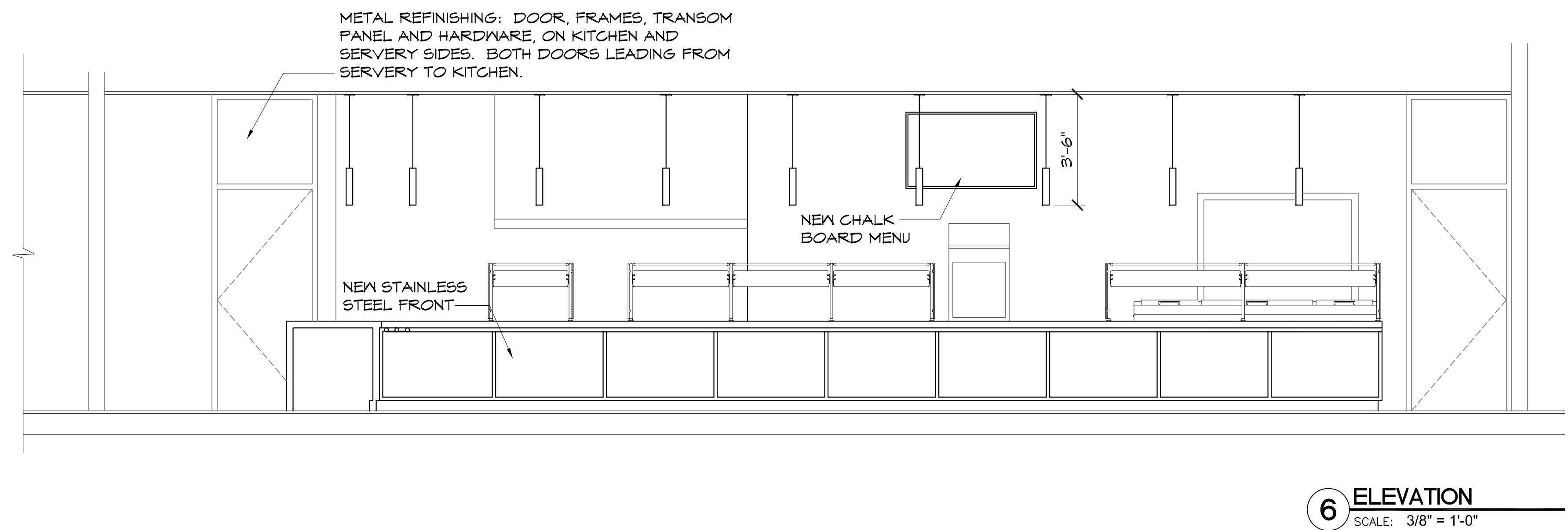
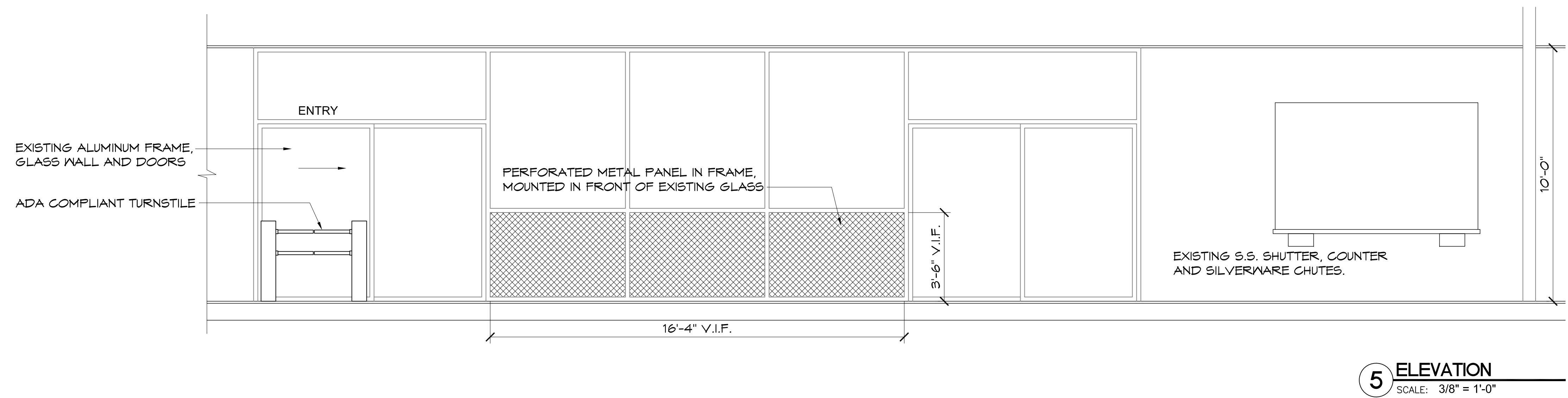
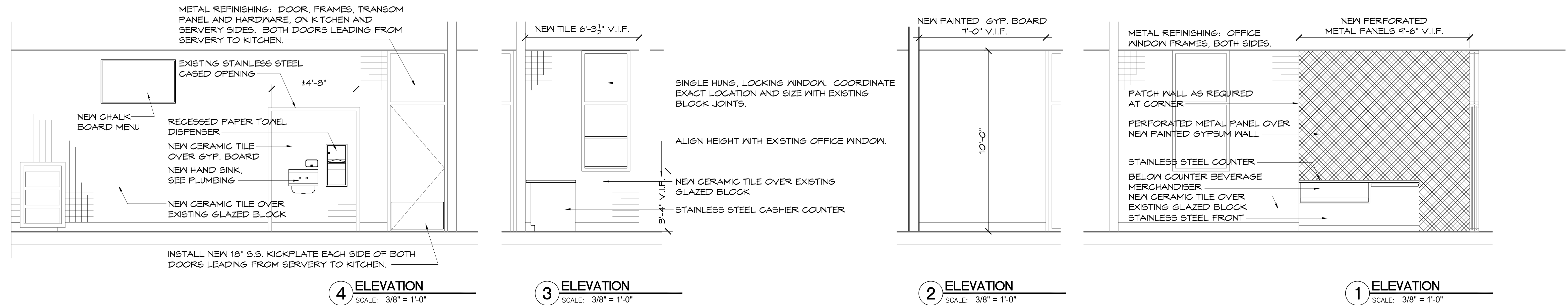
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KITCHEN / SERVERY FLOORING PLAN

PROJECT NO: 1401
SCALE: 1/4" = 1'-0"

SHEET NO:

A3.1



NOTE: NEW CERAMIC TILE TO BE INSTALLED OVER ALL EXISTING GLAZED BLOCK WALLS WITHIN THE SERVERY

2	06-27-14	100% CONSTRUCTION DOCUMENTS
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KITCHEN AND SERVERY RENOVATIONS

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INTERIOR ELEVATIONS

PROJECT NO.	1401	SHEET NO.
SCALE:	3/8" = 1'-0"	



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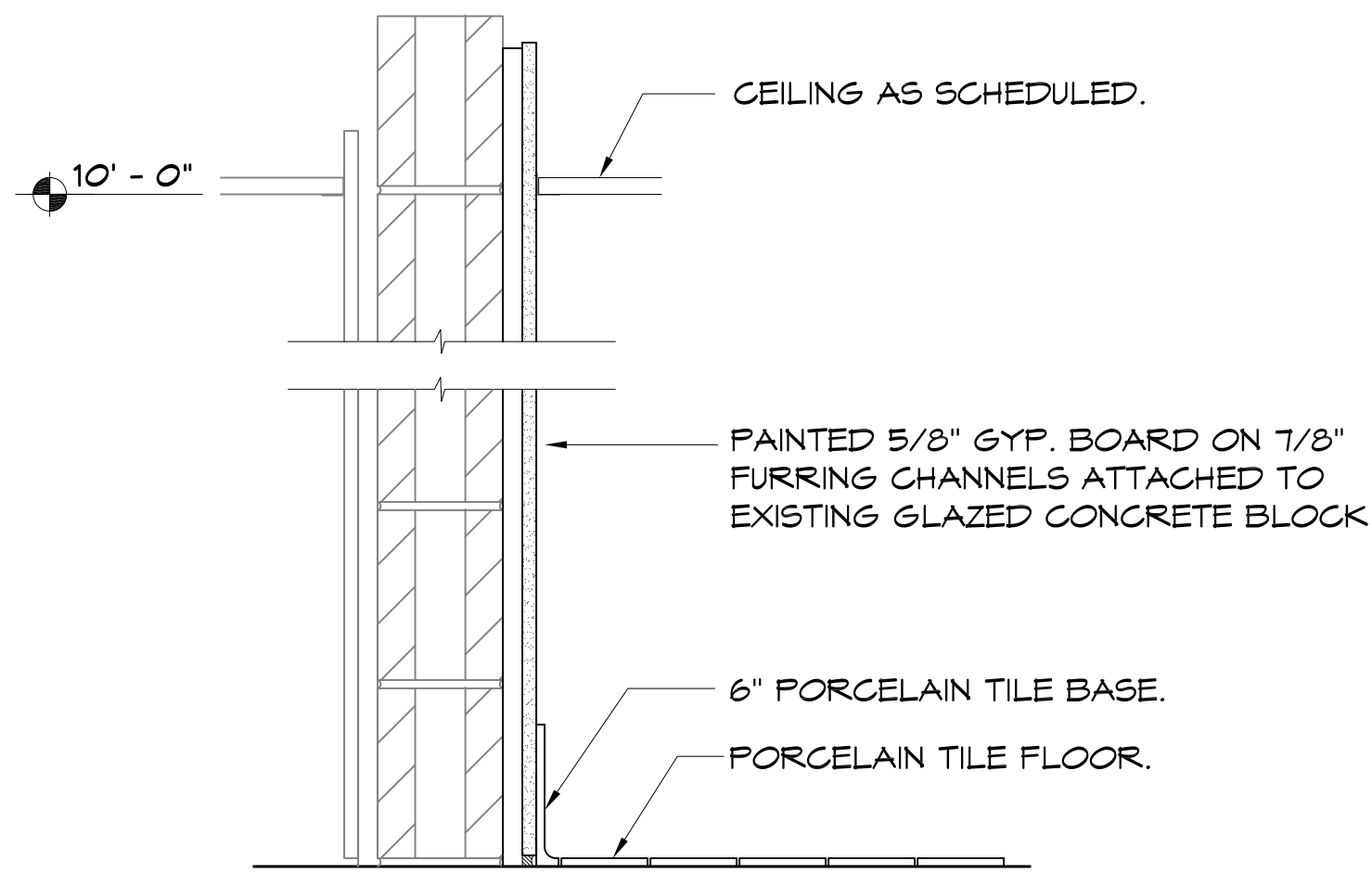
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KITCHEN EQUIPMENT

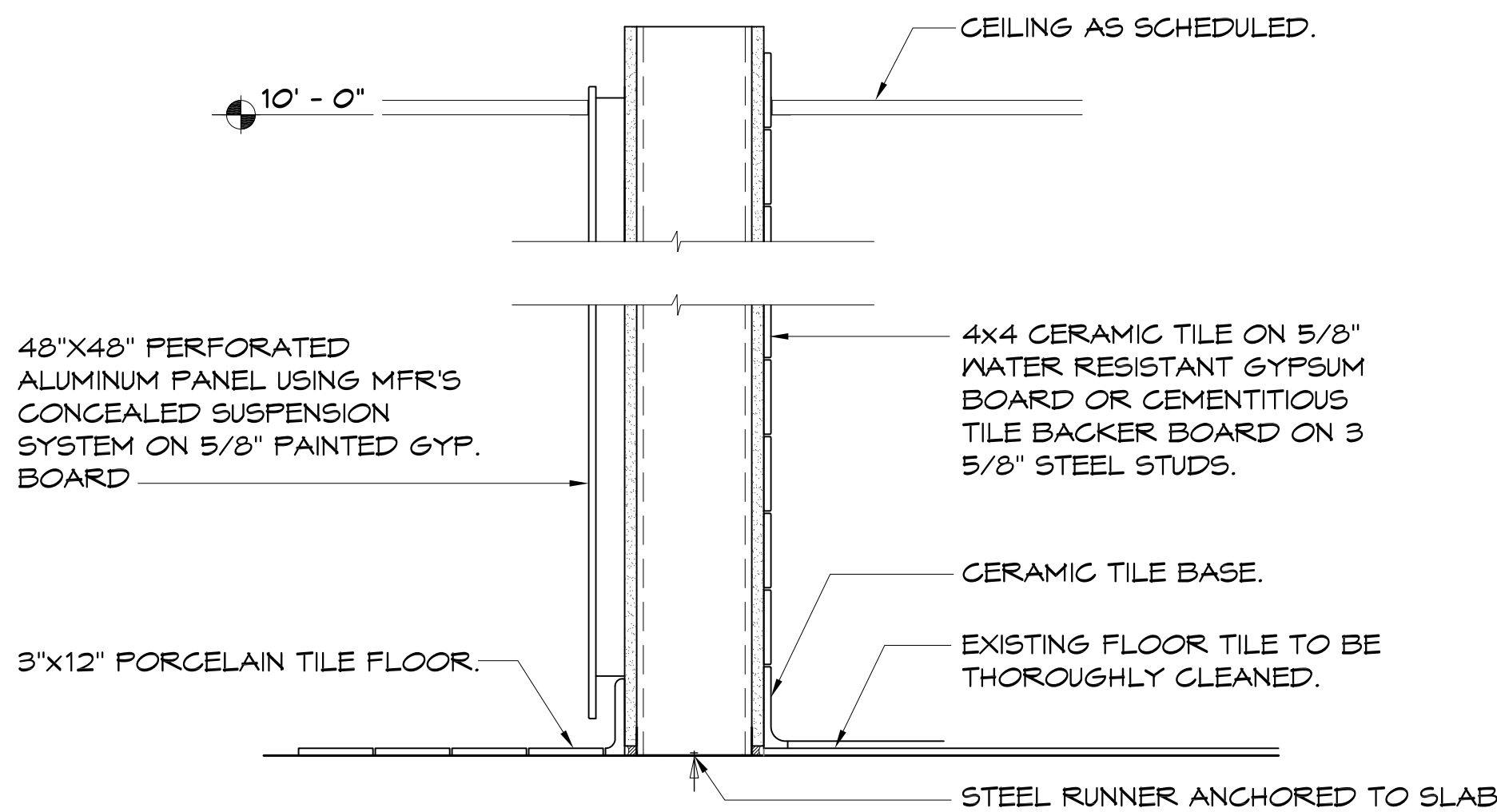
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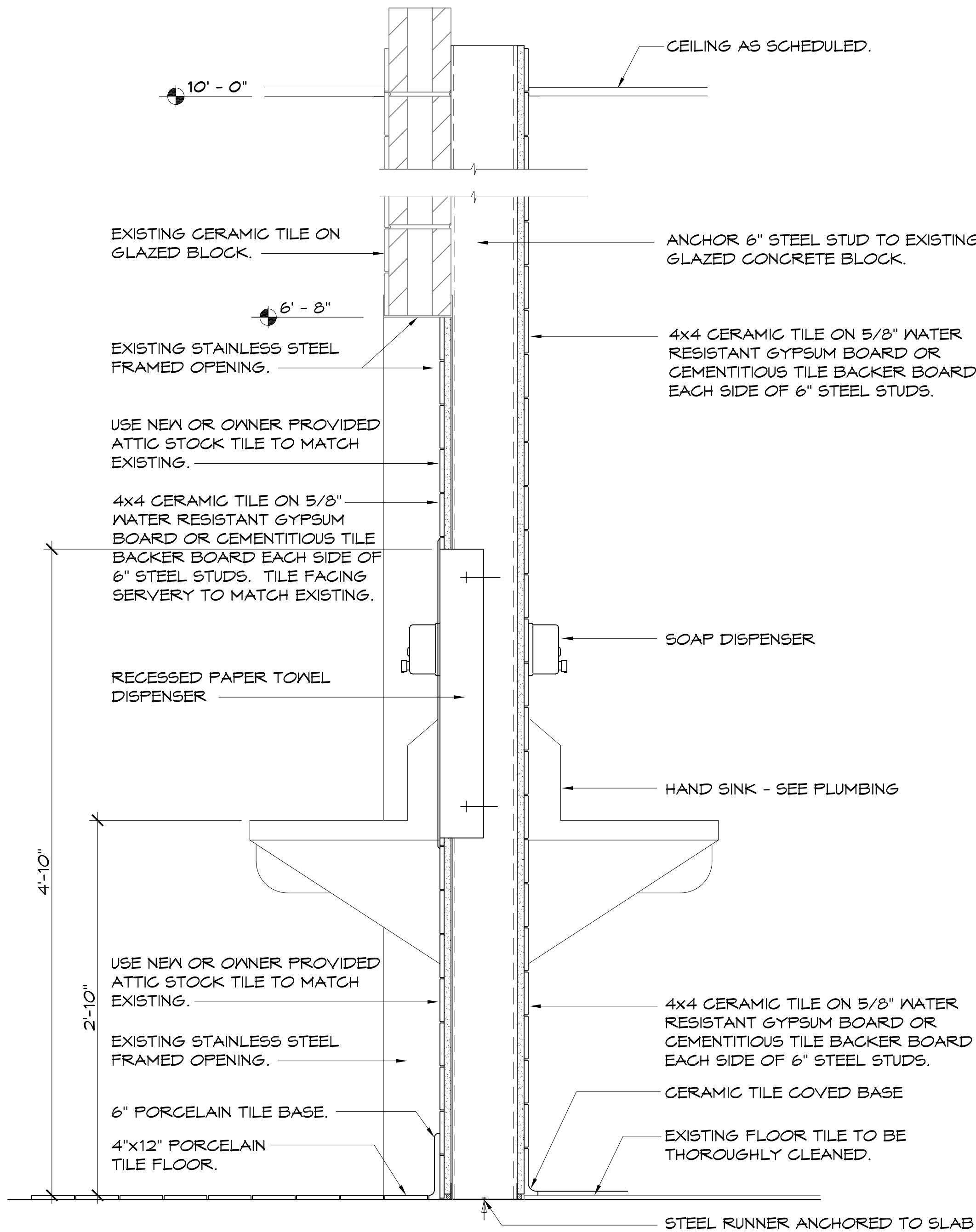
2 SECTION

SCALE: 1 1/2" = 1'-0"



3 SECTION

SCALE: 1 1/2" = 1'-0"



1 SECTION

SCALE: 1 1/2" = 1'-0"

NO.	DATE	REVISIONS
2	06-27-14	100% CONSTRUCTION DOCUMENTS
1	05-16-14	75% CONSTRUCTION DOCUMENTS



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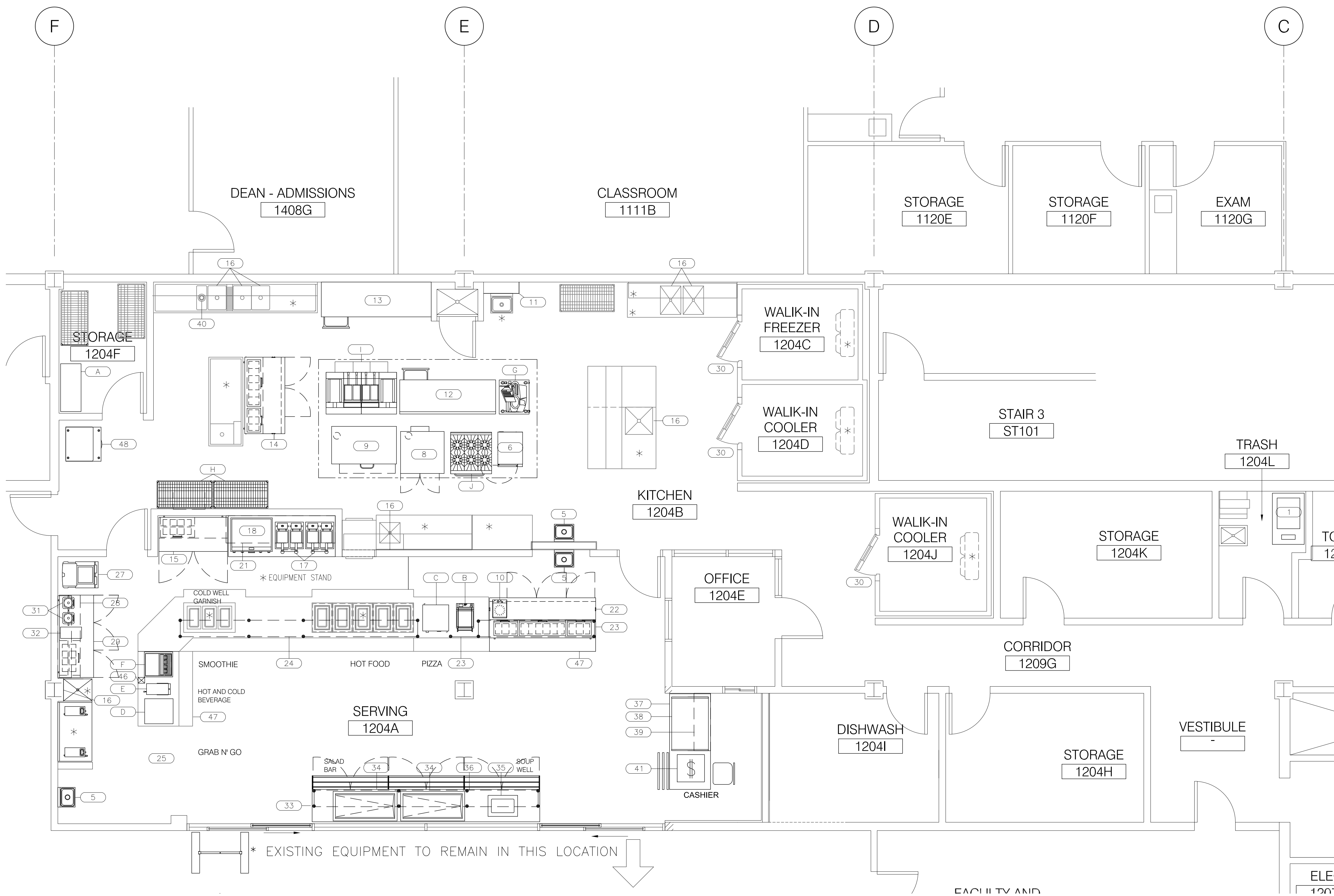
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INTERIOR WALL
DETAILS

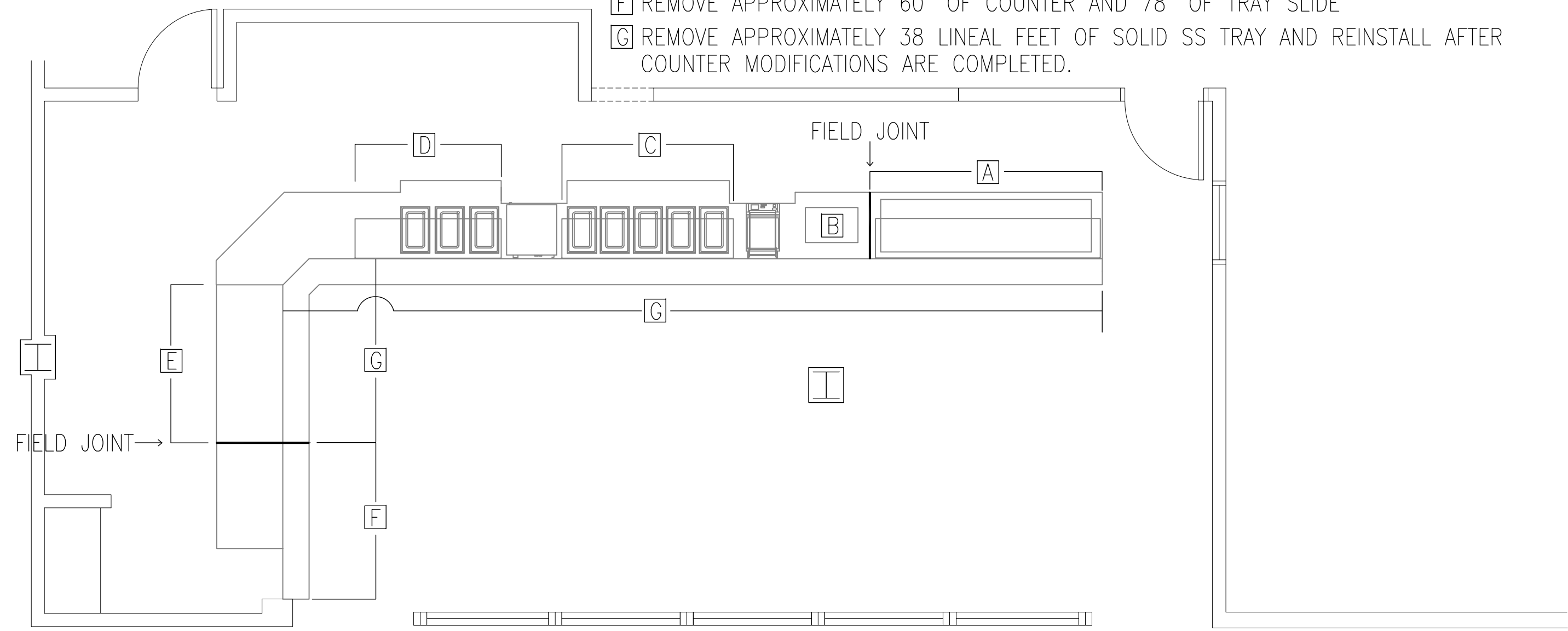
PROJECT NO. 1401
SCALE: 1 1/2" = 1'-0"

A4.1



1 FOOD SERVICE EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"

- [A] REMOVE APPROXIMATELY 105" LONG COLD PAN AND DOUBLE DECK DISPLAY STAND
- [B] REMOVE SECO 16" X 24" HOT FOOD WELL AND CONTROLS.
- [C] REMOVE APPROXIMATELY 78" LONG COUNTER PROTECTOR, SNEEZE GUARD AND LIGHT
- [D] REMOVE APPROXIMATELY 66" LONG COUNTER PROTECTOR, SNEEZE GUARD AND LIGHT
- [E] REMOVE APPROXIMATELY 26" X 75" FRAMING AND SUPERSTRUCTURE.
- [F] REMOVE APPROXIMATELY 60" OF COUNTER AND 78" OF TRAY SLIDE
- [G] REMOVE APPROXIMATELY 38 LINEAL FEET OF SOLID SS TRAY AND REINSTALL AFTER COUNTER MODIFICATIONS ARE COMPLETED.



2 COUNTER DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

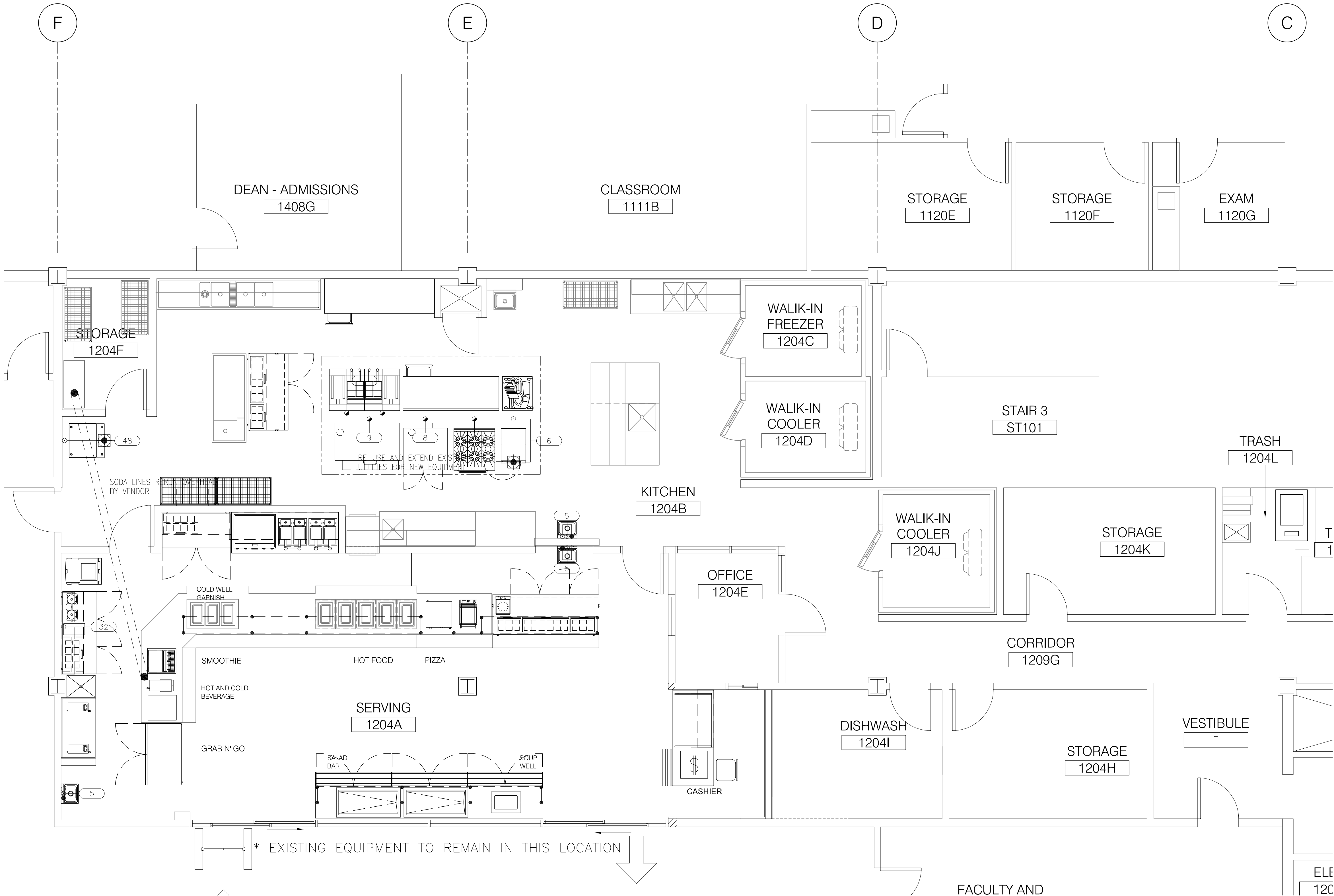
FOOD SERVICE EQUIPMENT		
ITEM NUMBER	QUANTITY	ITEM DESCRIPTION
1	1	REFRIGERATION SYSTEM
2	-	OPEN NUMBER
3	-	OPEN NUMBER
4	-	OPEN NUMBER
5	3	HAND SINKS
6	1	STEAMER
7	-	OPEN NUMBER
8	1	CONVECTION OVEN, DOUBLE
9	1	DECK OVEN, SINGLE
10	1	INDUCTION BURNER
11	1	FIRE SUPPRESSION SYSTEM
12	1	WORK TABLE W/ DRAWER
13	1	WORK TABLE W/ DRAWER
14	1	RAISED RAIL REFRIGERATOR
15	1	WORKTOP REFRIGERATOR
16	LOT	FAUCETS
17	2	FRYERS
18	1	GRIDDLE
19	-	OPEN NUMBER
20	-	OPEN NUMBER
21	1	FIRE SUPPRESSION SYSTEM
22	1	RAISED RAIL REFRIGERATOR
23	2	SNEEZE GUARDS
24	1	SNEEZE GUARD
25	1	PASS THRU REFRIGERATOR
26	-	OPEN NUMBER
27	1	ICE BIN, MOBILE
28	1	WALL SHELF
29	1	RAISED RAIL REFRIGERATOR
30	LOT	GASKETS / LIGHTS
31	2	BLENDERS
32	1	BLENDER RINSER
33	1	SOUP / SALAD BAR
34	2	COLD PANS
35	1	HOT FOOD WELL
36	1	SNEEZE GUARD
37	1	BEVERAGE / CASHIER COUNTER
38	1	REFRIGERATED COUNTER CASE
39	1	DISPLAY SHELF
40	1	DISPOSER
41	1	POS SYSTEM - BY OWNER
42	-	OPEN NUMBER
43	-	OPEN NUMBER
44	-	OPEN NUMBER
45	-	OPEN NUMBER
46	1	COUNTER SECTION / CHASE
47	1	TRAY SLIDE & COUNTER FRONTS
48	1	ICE MACHINE W/ BIN
		EXISTING EQUIPMENT TO BE RE-USED
A	1	BAG IN BOX
B	1	PANNINI GRILL
C	1	PIZZA CABINET
D	1	ICE / SODA DISPENSER
E	1	COFFEE BREWER
F	1	AIRPOTS, COFFEE STAND
G	1	SLICER
H	2	SHELVING
I	2	FRYER / FILTER (K-K)
J	1	RANGE / OVEN (K-K)

3	06-27-14	100% DESIGN DOCUMENTS
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**KITCHEN AND SERVERY
RENOVATIONS**

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CHICAGO, ILLINOIS 60628

**FOOD SERVICE
EQUIPMENT PLAN**



3 FOOD SERVICE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

TRADE CONTRACTORS NOTES

1. ALL CONNECTIONS SHOWN ARE THE APPROXIMATE CONNECTION LOCATIONS REQUIRED FOR THE FOOD SERVICE EQUIPMENT BEING FURNISHED BY THE KITCHEN CONTRACTOR AND ALLOWANCES MUST BE MADE TO EXTEND TO THE FINAL CONNECTION.
2. ANY CHANGES TO THESE LOCATIONS SHOULD BE VERIFIED WITH THE ARCHITECT OR FOOD SERVICE CONTRACTOR.
3. ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, COLUMNS AND FLOORS. WHERE BASE SIZES ARE SHOWN, THEY SHALL INCLUDE FINISHED SURFACES.
4. TRADES ARE TO MAKE THE FINAL CONNECTIONS FROM ELECTRICAL SERVICE LOCATIONS INDICATED TO EQUIPMENT PER LOCAL CODES.
5. FOR ADDITIONAL INFORMATION REFER TO DETAIL DRAWINGS, MANUFACTURERS SHOP DRAWINGS, SPECIFICATIONS, AND BROCHURE BOOK.
6. VARIOUS TRADES TO BE RESPONSIBLE FOR THE INSTALLATION & FINAL CONNECTION OF ELECTRICAL & PLUMBING COMPONENTS (FAUCETS, WASTES, CONTROL PANELS, ETC.) PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
7. TRADES SHALL PROVIDE OUTLETS IN EQUIPMENT AS CALLED FOR IN THE FIELD AND DO ALL CONTROL WIRING.
8. VARIOUS TRADES TO FURNISH ANY ADDITIONAL HARDWARE REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT SUCH AS VALVES, STOPS, TRAPS, DISCONNECT SWITCHES AND WIRING TO CONTROL EQUIPMENT LIKE SODA AND REMOTE COMPRESSORS, FIRE SYSTEM AND DISPOSERS AS REQUIRED.
9. TRADES SHALL FURNISH CONNECTIONS TO EQUIPMENT SETTING ON COUNTERS THAT DO NOT COME WITH CORD & PLUGS, FROM OUTLET BOX OR RECEPTACLE.
10. TRADES TO CO-ORDINATE W/ FIRE PROTECTION CONTRACTOR AND INSTALL SHUNT TRIPS IN ELECTRICAL PANELS TO SHUT OFF COOKING EQUIPMENT ITEMS IN CONJUNCTION WITH FIRE SYSTEMS AND RUN TO FIRE ALARM AND VALVES.
11. TRADES TO CO-ORDINATE W/FIRE PROTECTION CONTRACTOR AND INSTALL AUTOMATIC FIRE GAS SHUT OFF VALVE IN LINE AND WIRE VALVE TO CONTROL PANEL IF REQUIRED. KITCHEN EQUIPMENT CONTRACTOR TO ADVISE TRADES IF MECHANICAL OR SOLENOID SHUT-OFF VALVE IS BEING PROVIDED.
12. TRADES TO PROVIDE OCTAGONAL 'J' BOXES (+54") WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING FOR FIRE PROTECTION SYSTEM REMOTE PULLS. VERIFY LOCATIONS WITH PROPER AUTHORITY.
13. TRADES TO PROVIDE AND INSTALL GAS PRESSURE REGULATOR VALVE FROM 10 LBS. TO 6" W.C. TO INSURE EQUIPMENT TO OPERATE AT PROPER GAS PRESSURE.
14. ALL DIMENSIONS MUST BE VERIFIED AND AGREE WITH THE LATEST ARCHITECTURAL PLAN.
15. TRADES TO VERIFY WITH OWNER/OPERATOR REQUIREMENTS FOR CASH SYSTEM AND TO SUPPLY ALL NECESSARY COMPONENTS FOR ITS PROPER OPERATION.
16. TRADES TO VERIFY W/MECHANICAL ENGINEER AND LOCAL CODES ALL REQUIRED COMPONENTS (SUCH AS GREASE TRAPS, VACUUM BREAKERS ETC.) FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT AND TYPE OF DRAIN CONNECTIONS REQUIRED AND INSTALL ACCORDINGLY.
17. TRADES TO SUPPLY AND INSTALL ALL REQUIRED PRESSURE REDUCING AND REGULATING VALVES REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT.
18. ELECTRICAL OUTLETS AND PIPING ROUGHED UP UNDER ISLAND EQUIPMENT TO BE STUBBED UP A MAXIMUM OF 4" OR LESS NOT TO INTERFERE WITH INSTALLED EQUIPMENT. ALL FLOOR OPENINGS TO BE SEALED WATER TIGHT.
19. VERIFY W/EQUIPMENT MANUFACTURER PROPER PLUMBING CONNECTIONS AND REQUIREMENTS FOR COFFEE MAKERS, BEVERAGE DISPENSERS, AND ICE MAKERS. PROVIDE BACKFLOW AND/OR RPZ VALVES AS REQUIRED BY LOCAL CODES.
20. ALL CONNECTIONS, ELECTRICAL AND PLUMBING, SHALL BE PER STATE AND LOCAL CODES.
21. ARCHITECT, ENGINEER, & BUILDING TRADES TO VERIFY BUILDING CODE IN REGARD TO ACCEPTABLE DRAIN PIPE MATERIAL. FOODSERVICE DRAINS NEED TO ACCOMMODATE TEMPERATURES ABOVE 212°F DRAINAGE SYSTEM NEEDS TO BE DESIGNED ACCORDINGLY.
22. ALL CURBS (I.E. MASONRY BASES FOR FOODSERVICE EQUIPMENT, ROOF CURBS FOR FANS & REFRIGERATION RACKS ETC.) AS REQUIRED, ARE NOT PROVIDED BY THE K.E.C.



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FOOD SERVICE
PLUMBING PLAN

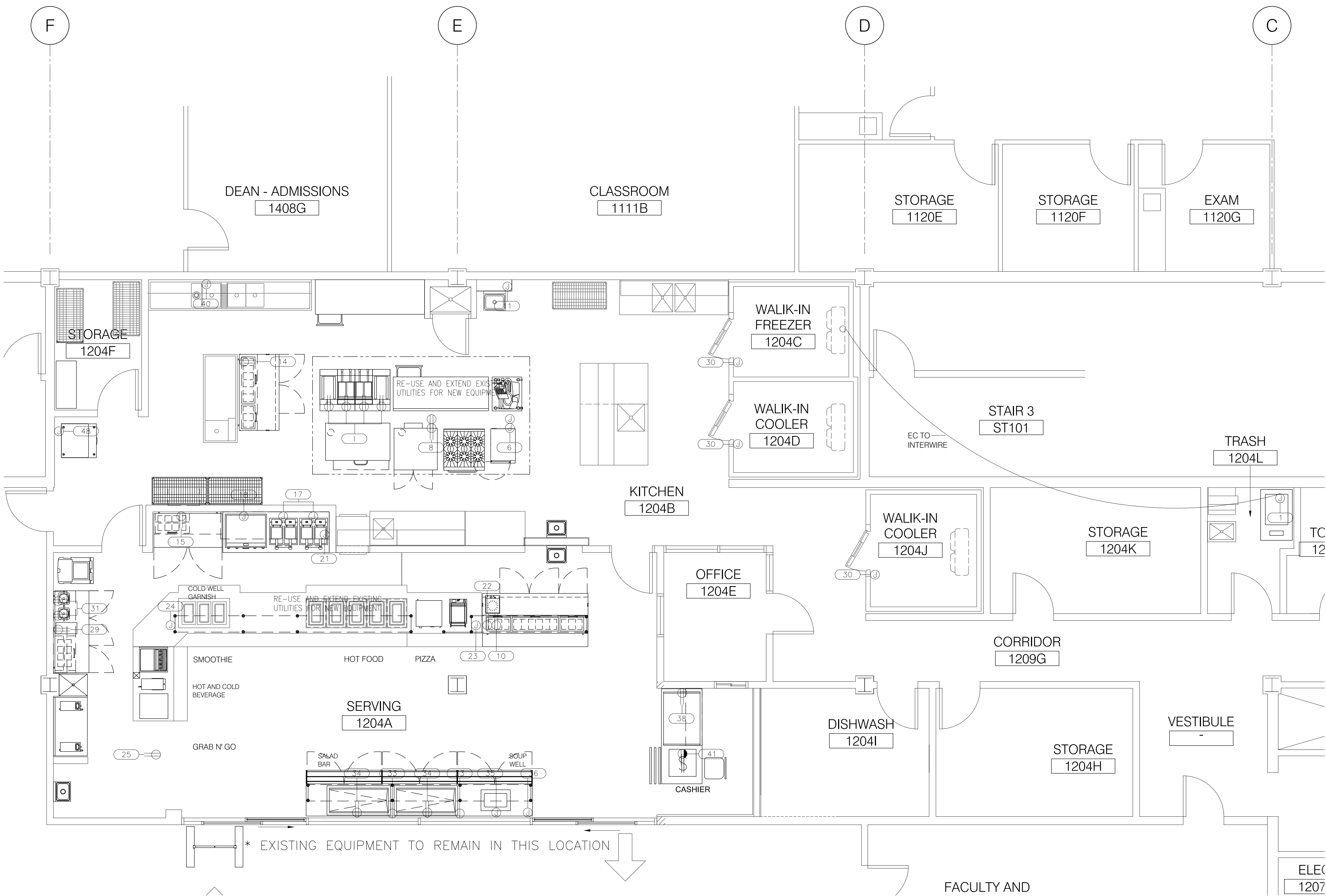
PROJECT NO. 1401

DATE: 05-16-14

REVISIONS

SHEET NO.

FS3



4 FOOD SERVICE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

TRADE CONTRACTORS NOTES

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SHEET TITLE

FOOD SERVICE ELECTRICAL PLAN

PROJECT NO.

1401

SCALE

SHEET NO.


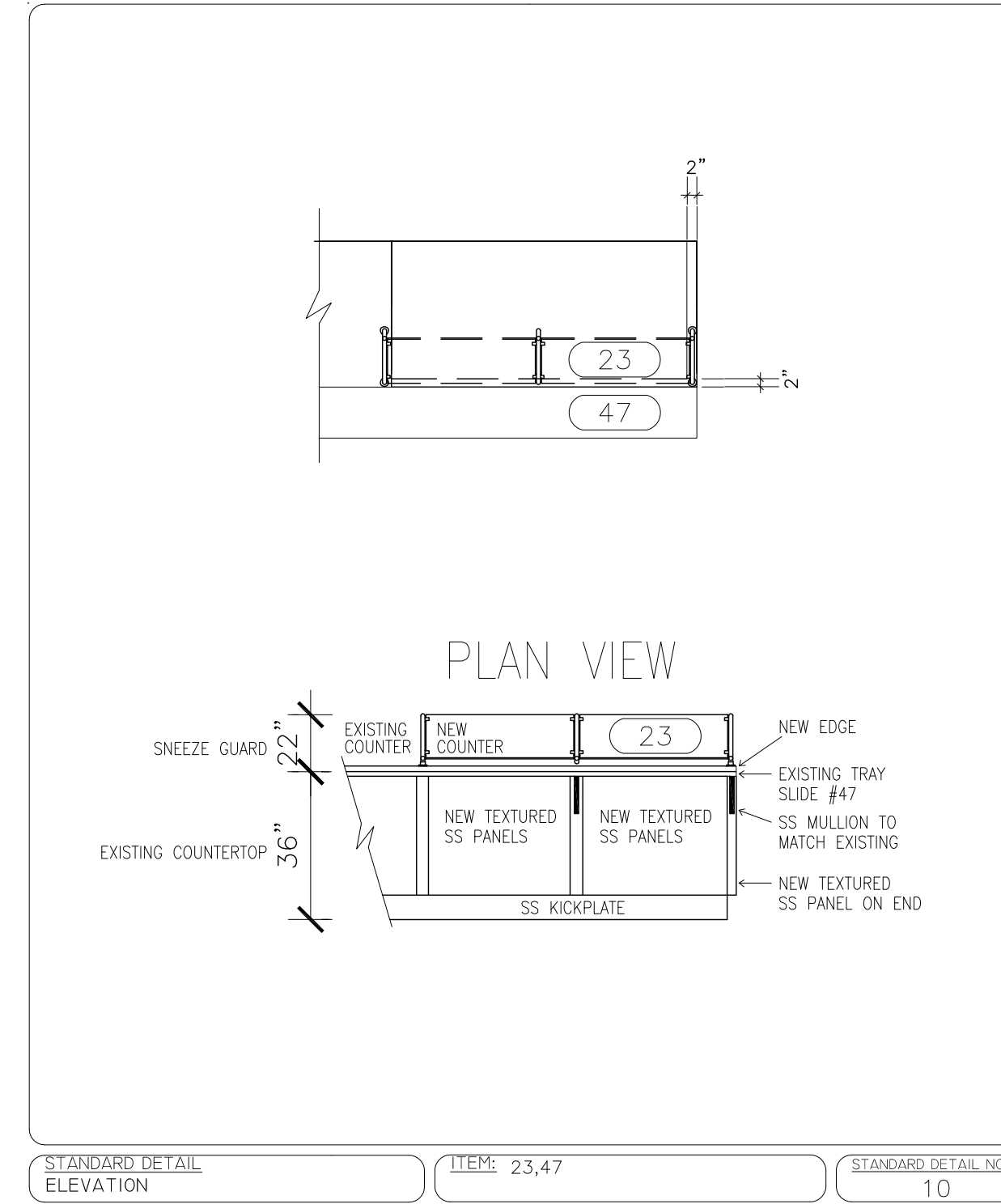
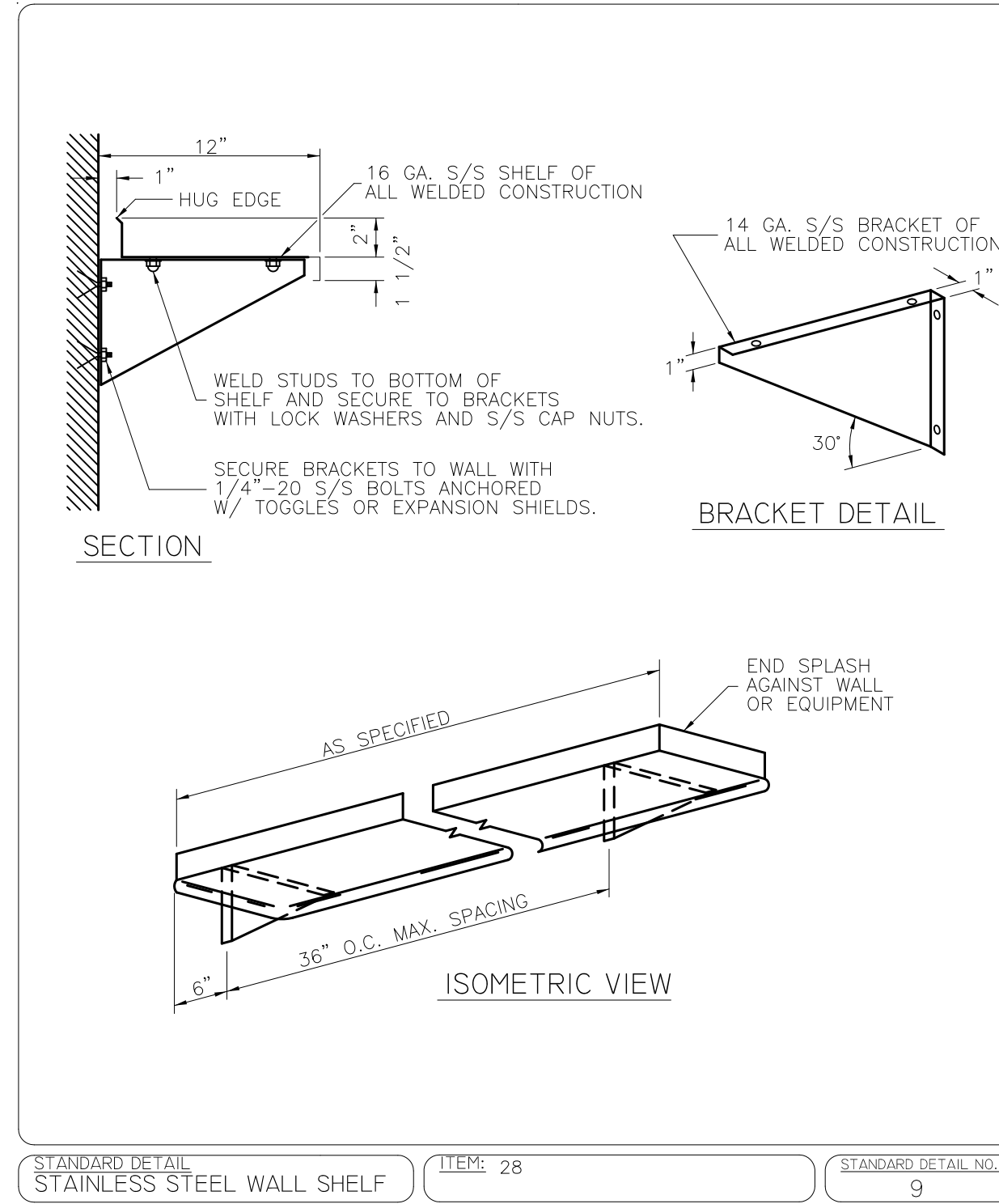
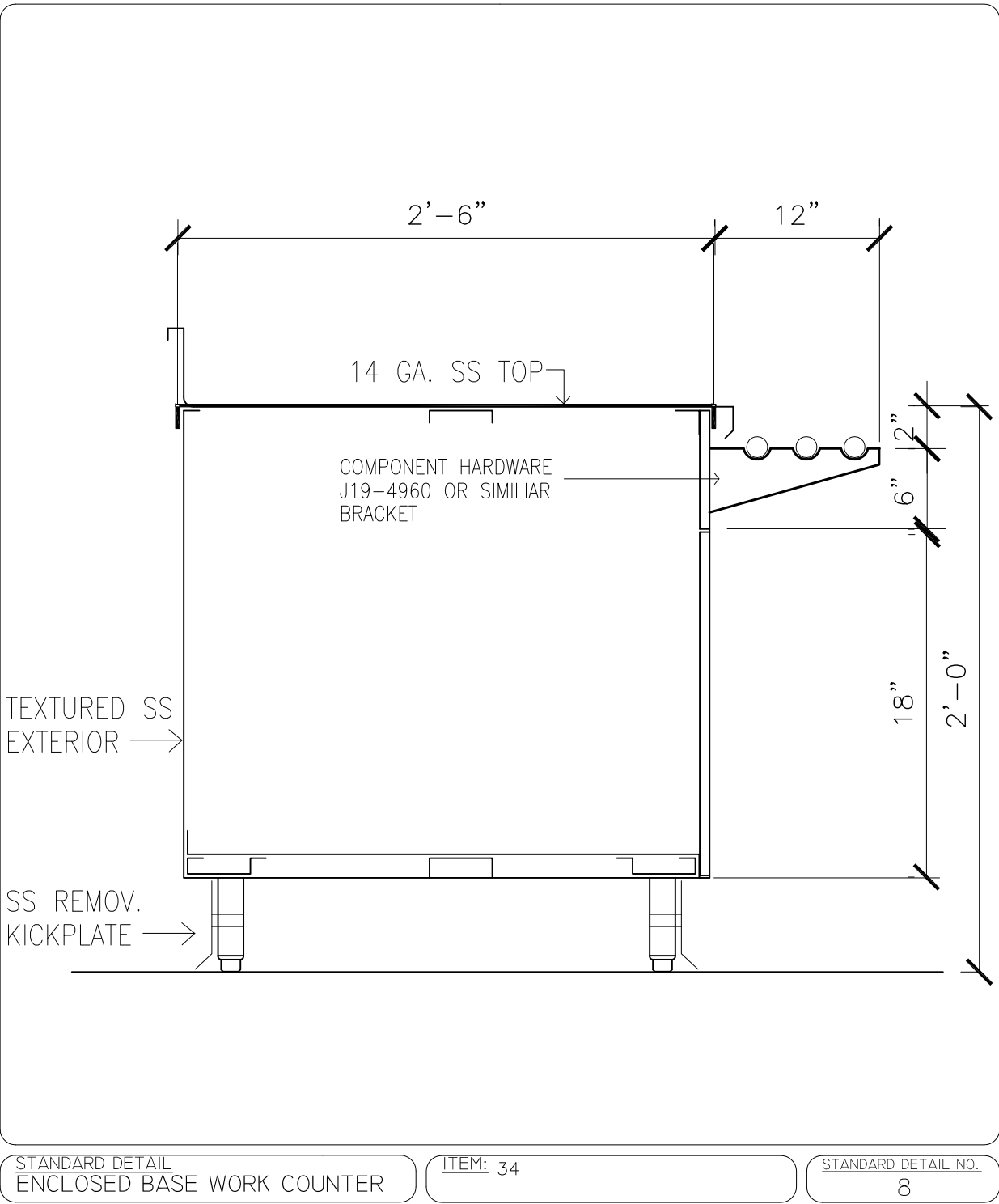
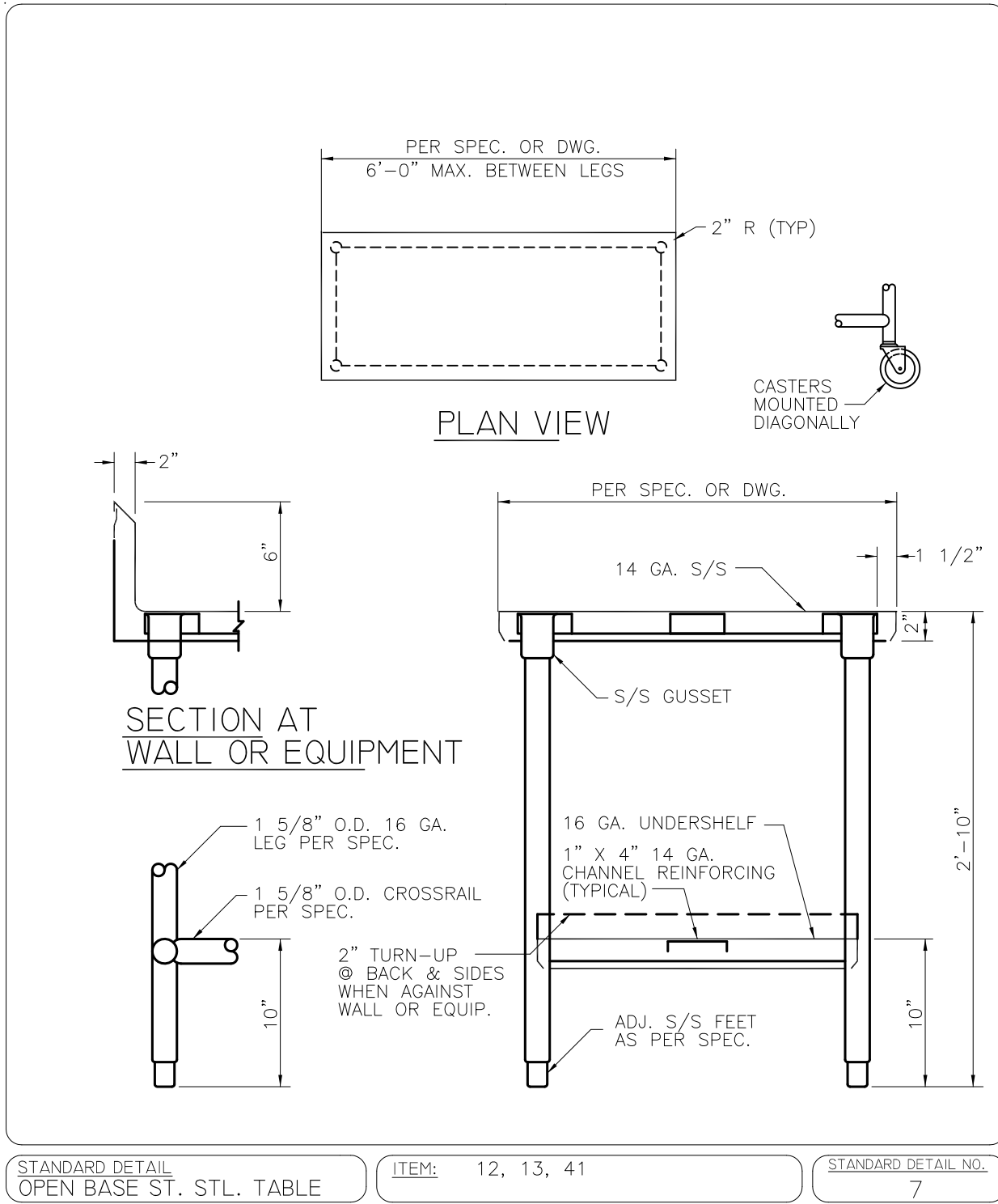
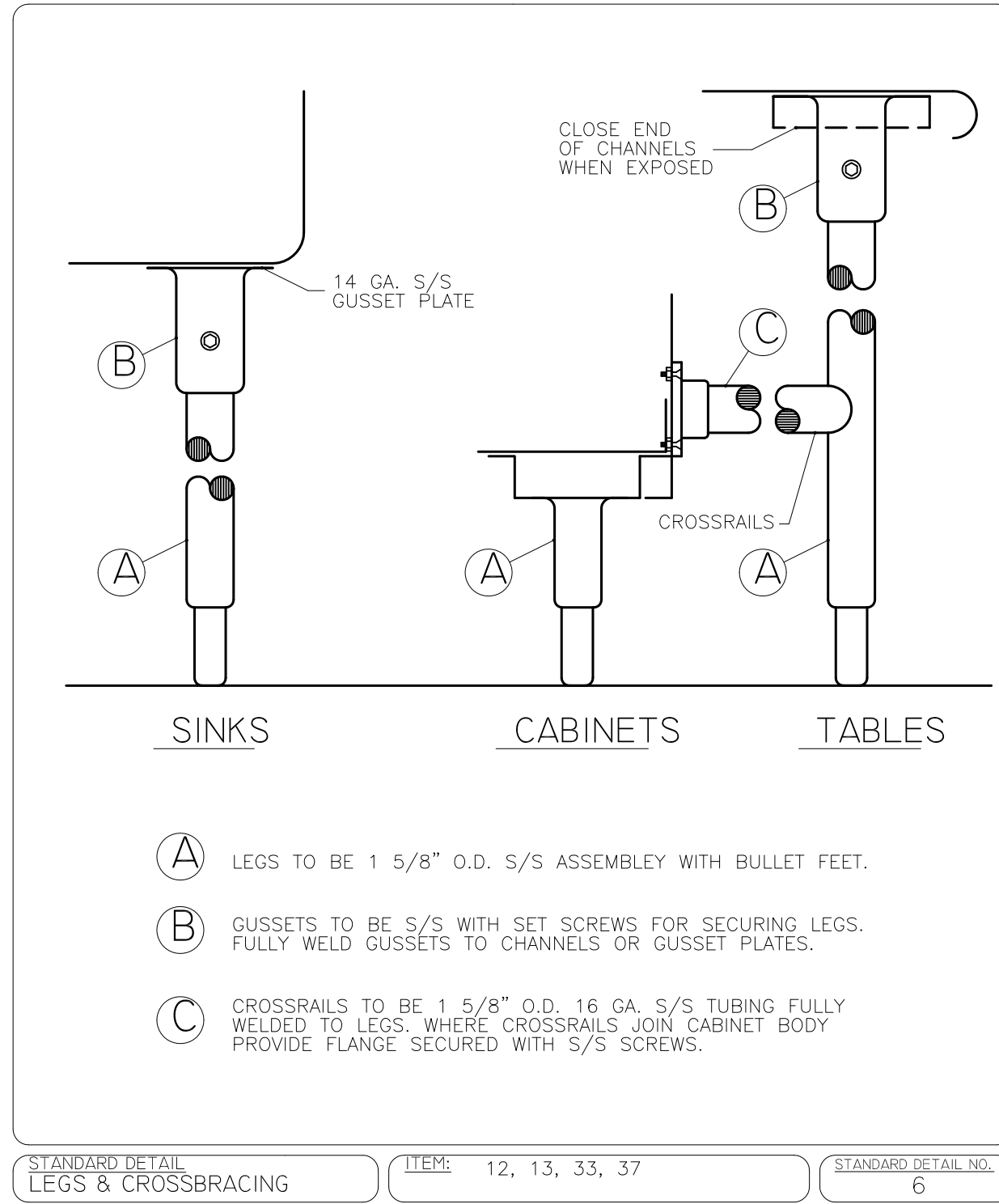
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SHEET TITLE

FOOD SERVICE EQUIPMENT DETAILS

FS5

VENTILATION SYMBOLS			MECHANICAL SYMBOLS			
SINGLE LINE	DOUBLE LINE	DESCRIPTION	SYMBOL	DESCRIPTION		
		NEW DUCTWORK - WxH AIRWAY DIMENSIONS		PRESSURE GAUGE AND COCK		
		DUCT SECTION - SUPPLY UP		STRAINER		
		DUCT SECTION - SUPPLY DOWN		STRAINER W/BLOW-OFF VALVE		
		DUCT SECTION - RETURN OR EXHAUST UP		THERMOMETER		
		DUCT SECTION - RETURN OR EXHAUST DOWN		PRESSURE / TEMPERATURE SENSOR		
		EXISTING DUCT		CAP		
		DUCT / EXISTING WORK TO BE REMOVED		UNION		
		INCLINED RISE W/RESPECT TO AIR FLOW		ANCHOR W/ALIGNMENT GUIDES		
		INCLINED DROP W/RESPECT TO AIR FLOW		EXPANSION JOINT		
		FLEXIBLE CONNECTION TO EQUIPMENT		FLEXIBLE CONNECTION		
		LOUVER & SCREEN W/D GROSS OPENING		PRESSURE RED. VALVE		
		FLEXIBLE DUCT		RELIEF VALVE		
		VOLUME DAMPER WITH QUADRANT LOCKING		TRIPLE DUTY VALVE		
		MOTORIZED DAMPER		CHECK VALVE (SP) SPRING		
		SPLITTER DAMPER		BALANCING VALVE		
		BACK DRAFT DAMPER (GRAVITY)		GLOBE VALVE		
		FIRE DAMPER, SLEEVE & ACCESS DOOR		GATE VALVE		
		AIR EXTRACTING VANES		{ BUTTERFLY VALVE - WHEN DIA. > 2"		
		TURNING VANES, DOUBLE THICKNESS AIRFOIL TYPE		{ BALL VALVE - WHEN DIA. < 2"		
		RISER MARK		VALVE WITH MEMORY STOP		
		THERMOSTAT (G) W/GUARD		GAS COCK		
		SENSOR		CONTROL VALVE, 2-WAY		
		HUMIDISTAT		CONTROL VALVE, 3-WAY		
		CONNECTION TO EXISTING PIPING, DUCTWORK, ETC.		CIRCUIT SETTER		
		EXHAUST OR RETURN AIR REGISTER		CODE BACKFLOW PREVENTOR		
		ROUND CEILING SUPPLY DIFFUSER		UNIT HEATER - VERTICAL		
		RECTANGULAR CEILING SUPPLY DIFFUSER		UNIT HEATER - HORIZONTAL		
		SIDE WALL SUPPLY REGISTER W/VOLUME DAMPER		PIPE DOWN		
		DOOR GRILLE W/BUILT-IN FIRE DAMPER		PIPE UP		
		LINEAR DIFFUSER W/BOOT, NO VOLUME DAMPER IN BOOT.		EXISTING PIPING TO BE REMOVED		
		AIR VALVE		EXISTING PIPING TO REMAIN		
		TERMINAL UNIT-VARIABLE VOLUME INTEGRAL DIFFUSER		NEW PIPING		
		UNDERCUT DOOR MINIMUM 1"		PIPING ASSEMBLY - SEE DETAIL		
		ROOF MOUNTED POWER OR GRAVITY ROOF VENTILATOR		VENT (MANUAL OR AUTOMATIC)		
		ROOF MOUNTED AIR INTAKE		FLOW CONTROL FITTING		
		ELECTRIC DUCT HEATER		FLOW INDICATOR		
				FLOW SWITCH		
				PRESSURE SWITCH		
				BASE MOUNTED PUMP - SEE DETAIL		
				IN-LINE PUMP - SEE DETAIL		
				EQUIPMENT (SPECIFIED BY TAG BELOW)		
				EQUIPMENT TAG W/NUMBER		
				DRAIN LINE		
				GAS LINE		
				VENT LINE		
				HDT WATER HEATING SUPPLY		
				HDT WATER HEATING RETURN		
				CHILLED WATER HEATING SUPPLY		
				CHILLED WATER HEATING RETURN		
				REFRIGERANT SUCTION LINE		
				REFRIGERANT LIQUID LINE		
				STEAM SUPPLY LINE		
				CONDENSATE RETURN LINE		
				CONDENSER WATER LINE		
CONTROL SYMBOLS			ABBREVIATIONS			
SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DIGITAL INPUT		FD	FIRE DAMPER	GPR	GEOEXCHANGE PIPE RETURN
	ANALOG INPUT		H.P.	HORSE POWER	CAI	COMBUSTION AIR INTAKE
	DIGITAL OUTPUT		EXP VLV	EXPANSION VALVE	RBD	ROUND BACKDRAFT DAMPER
	ANALOG OUTPUT		MBH	THOUSAND BRITISH THERMAL UNITS	TYP	TYPICAL
	CONTROL VALVE (ELECTRICAL)		MFG.	MANUFACTURER	S.A.	SUPPLY AIR DUCT
	CONTROL VALVE (PNEUMATIC)		MTD.	MOUNTED	R.A.	RETURN AIR DUCT
	DIFFERENTIAL PRESSURE SWITCH		PH.	PHASE	E.A.	EXHAUST AIR DUCT
	VARIABLE SPEED CONTROLLER		R.P.M.	REVOLUTIONS PER MINUTE	O.S.A.	OUTSIDE AIR
	NORMALLY OPEN		T-STAT	THERMOSTAT	C.D.	CEILING DIFFUSER
	NORMALLY CLOSED		V	VOLTS	C.F.M.	CUBIC FEET PER MINUTE
	END SWITCH		VEL	VELOCITY	A.F.F.	ABOVE FINISHED FLOOR
	MOTOR OPERATED DAMPER		W.C.	INCHES IN WATER COLUMN	A.F.G.	ABOVE FINISHED GRADE
	VELOCITY SENSOR		TG	TRANSFER GRILLE	CAP.	CAPACITY
	TEMPERATURE SENSOR		DN	DOWN	CLG.	CEILING
	HUMIDITY SENSOR		CFH	CUBIC FEET PER HOUR	CONN.	CONNECTION
	DIFFERENTIAL PRESSURE SENSOR		GFS	GEOEXCHANGE PIPE SUPPLY		
	SMOKE DETECTOR					

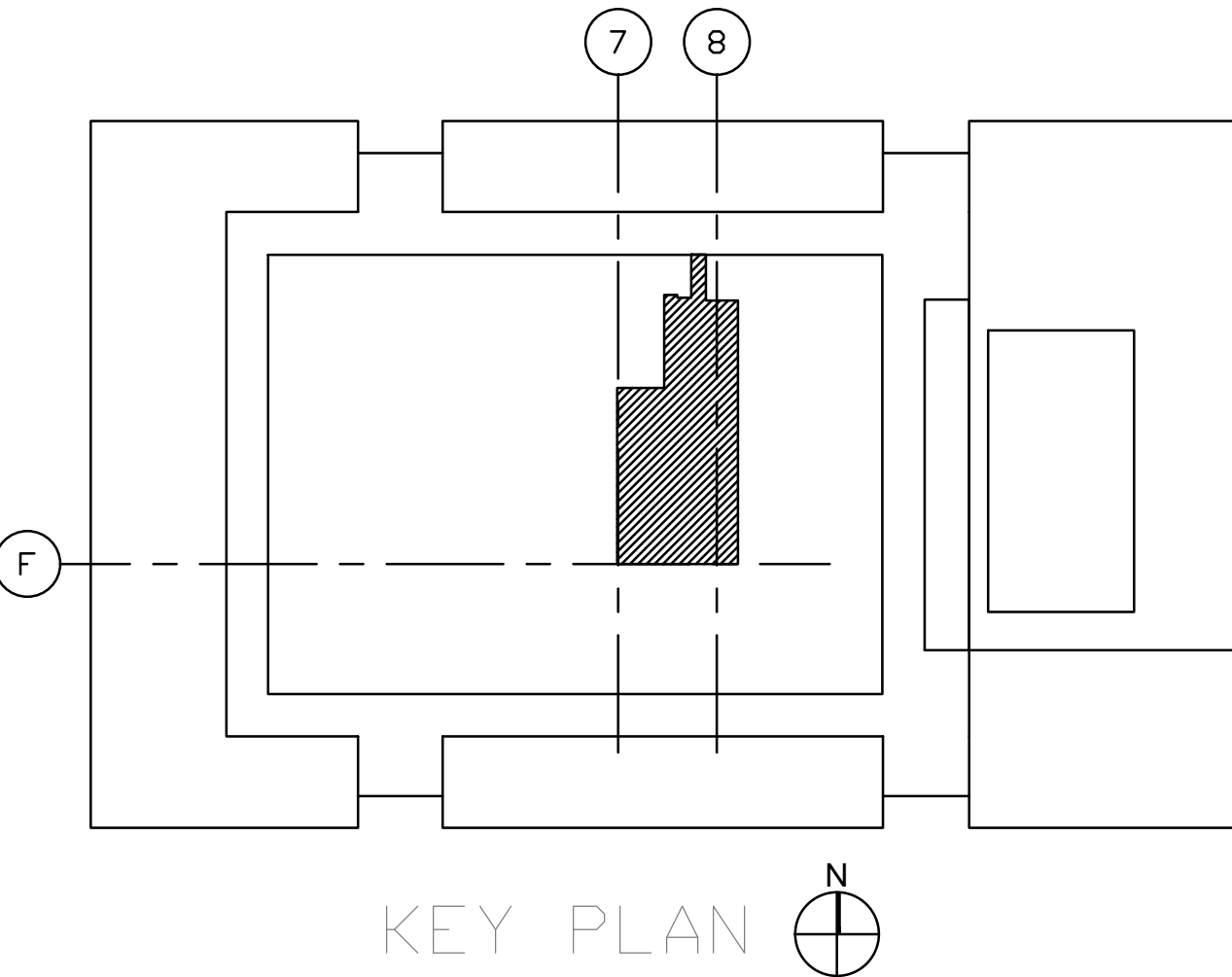
NOTE: NOT ALL SYMBOLS ARE APPLICABLE TO THIS PROJECT.

GENERAL COORDINATION NOTES:

- EACH TRADE CONTRACTOR SHALL VISIT CONSTRUCTION SITE PRIOR TO BIDDING, EXAMINE SCOPE AND CONDITIONS OF OTHER CONTRACT WORK, EXAMINE EXISTING CONDITIONS AND ALL INTERFERENCES AND REQUIRED COORDINATION IN ORDER TO INCLUDE EFFECT OF SAD CONDITIONS IN THEIR BID. BID DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL REQUIRED RELOCATIONS, OFFSETS, CHANGE IN ASPECT RATIOS, OR ROUTING CHANGES REQUIRED TO INTEGRATE WORK WITH ALL OTHER CONDITIONS OR TRADES. WORK INSTALLED BEFORE COORDINATING SO AS TO CAUSE INTERFERENCES WITH OTHER TRADES SHALL BE REMOVED AND REWORKED WITHOUT COST TO OWNER. COST OF PROVIDING SUCH RELOCATIONS, OFFSETS, SIZE, CHANGES, REROUTING, ETC. SHALL BE INCLUDED IN BID. CODE CONFORMING SCALED (1/4") COORDINATED DRAWINGS SHALL BE PREPARED BY EACH TRADE TO FACILITATE AND VERIFY FIT AND CONGRUENCE OF THEIR INSTALLATION WITH OTHER TRADES.
- WHERE ADDITIONAL DETAILS, DIAGRAMS, EQUIPMENT DATA, AND ISOMETRICS ARE REQUIRED BY BUILDING DEPARTMENT OR CODE AUTHORITIES FOR PERMIT OR APPROVAL, CONTRACTOR SHALL PROVIDE SAME AT NO ADDITIONAL COST.
- BUILDING PLANS SHOWN ARE COMPILED FROM SOURCES BELIEVED TO BE ACCURATE. HOWEVER, THE INFORMATION SHOWN ON THESE PLANS IS SCHEMATIC AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROPER DIMENSIONS, SIZES, SYSTEM VOLTAGES, QUANTITIES AND EXTENT OF WORK.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR COORDINATION AND EXTENT OF THE WORK OF THE VARIOUS TRADES AND IMPACT ON THEIR WORK.
- WITH THE APPROVAL OF THE ARCHITECT AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE MODIFICATIONS IN THE WORK, INCLUDING REROUTING AS REQUIRED BY INTERFERENCE WITH STRUCTURAL, GENERAL AND WORK OF OTHER TRADES FOR PROPER EXECUTION OF THE WORK.
- REFER TO THE ARCHITECTURAL DRAWINGS, FIELD CONDITIONS AND DETAILS FOR EXACT LOCATION OF PARTITIONS.
- CUTTING AND PATCHING FOR THEIR WORK SHALL BE PERFORMED BY EACH TRADE CONTRACTOR UNLESS NOTED OTHERWISE.

GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH BUILDING STANDARDS AND ALL APPLICABLE CODES.
- MEDIUM/LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.
- PROVIDE MANUAL DAMPER ON ALL LOW PRESSURE SUPPLY BRANCH TAKE-OFF OF DUCTWORK.
- ALL DUCT SIZES SHOWN SHALL BE CLEAR INSIDE DIMENSIONS.
- DIFFUSERS, REGISTERS ARE AS SCHEDULED IN THE DRAWING. CONTRACTOR TO VERIFY AND COORDINATE WITH ARCHITECT TYPE OF CEILING TO DETERMINE FRAME TYPE.
- BLANK-OFF WITH BLACK PAINTED PANEL WHERE SHOWN. DO NOT PAINT EXPOSED DUCTS OR REGISTERS.
- PROVIDE UL APPROVED FIRE-DAMPERS.
- DUCT LINING SHALL BE MIN 2LB DENSITY TEXTILE TYPE, TREATED TO PREVENT EROSION, LINING SHALL BE GLUED WITH 100% COVERAGE OF ADHESIVE AND PINNED TO DUCT ON 12" CENTERS IN BOTH DIRECTIONS AND WITHIN 3" OF EDGES. EDGES SHALL BE COATED WITH ADHESIVE AND BUTTED TOGETHER TIGHTLY SO THERE IS A STRAIGHT SURFACE WITH NO GAPS. PROTECT EXPOSED LEADING EDGES WITH SHEET METAL NOSING.
- FLEXIBLE DUCTWORK:
FINAL CONNECTIONS TO ALL BOOT ASSEMBLIES, DIFFUSERS AND REGISTERS SHALL BE MADE WITH CODE-APPROVED INSULATED FLEXIBLE DUCT, THERMAFLEX TYPE M-KE OR AS MANUFACTURED BY FLEXMASTER OR GENFLEX. FLEXIBLE DUCTWORK SHALL NOT BE USED IN DUCTWORK AS AN ELBOW. FLEXIBLE DUCTWORK SHALL BE STRAIGHT WITH ONLY MINOR OFFSETS NECESSARY FOR FIELD CONDITIONS. FLEXIBLE DUCTWORK IN LOW OR HIGH VELOCITY PORTIONS OF SUPPLY DUCT SYSTEMS SHALL BE TYPE 3 - INSULATED FLEXIBLE DUCT OR AS MANUFACTURED BY FLEXMASTER THERMOFLEX OR GENFLEX. FLEXIBLE DUCTWORK IN RETURN SYSTEMS SHALL BE INSULATED FLEXIBLE DUCT THERMAFLEX TYPE MK-E OR AS MANUFACTURED BY FLEXMASTER N145 THERMAFLEX OR GENFLEX. FLEXIBLE DUCTWORK SHALL NOT EXCEED 6'-0" IN LENGTH IN EITHER MEDIUM OR LOW VELOCITY SYSTEMS, SHALL BE PROPERLY SUPPORTED TO PREVENT KINKS OR SAGS, AND SHALL NOT BE USED AS AN ELBOW. CONNECTIONS SHALL BE SECURED WITH WRAP-LOCK CLAMPS AND SEALED WITH DUCT SEALER. INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES WHICH MAY RESTRICT TYPE, LENGTH AND USE OF FLEXIBLE DUCT.
E. FUEL GAS PIPING AND CONTROLS MUST CONFORM TO THE INTERNATIONAL FUEL GAS CODE(IFGC), CHAPTER 4 (WITH MODIFICATIONS AS NOTED IN ARTICLE 14). [18-28-1400]
F. GAS PIPING MUST BE SIZED IN ACCORDANCE WITH IFGC TABLES 402.(1) THROUGH 402.3(34). [IFGC 402.3]
G. THE MAXIMUM DESIGN OPERATING PRESSURE FOR GAS PIPING SYSTEMS LOCATED INSIDE BUILDINGS SHALL NOT EXCEED 5 PSIG (SOME EXCEPTIONS ARE NOTED). [IFGC 402.5]
H. GAS PIPING MATERIALS MUST CONFORM TO THE GAS PIPING & TUBING MATERIAL MATRIX (LFGC 403 REQUIREMENTS). [IFGC 403]
I. PIPING IN CONCEALED LOCATIONS MUST CONFORM TO THIS IFGC 404.3. [IFGC 404.3]
J. MINIMUM REQUIRED BURIAL DEPTH FOR UNDERGROUND PIPING SYSTEMS MUST CONFORM TO IFGC 404.9. (MINIMUM 12 INCHES BELOW GRADE). [IFGC 404.9]
K. GAS PIPES MUST BE SLOPED AT 1/4 INCH IN EVERY 15 FEET. [IFGC 408.1]



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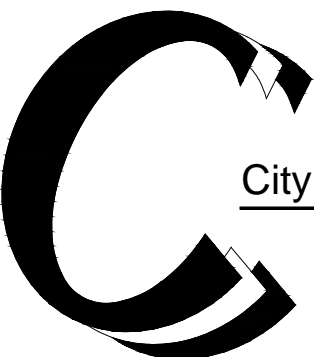
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SHEET TITLE

MECHANICAL NOTES &
SYMBOLS

PROJECT NO:

SHEET NO:

SCALE:

M0.1



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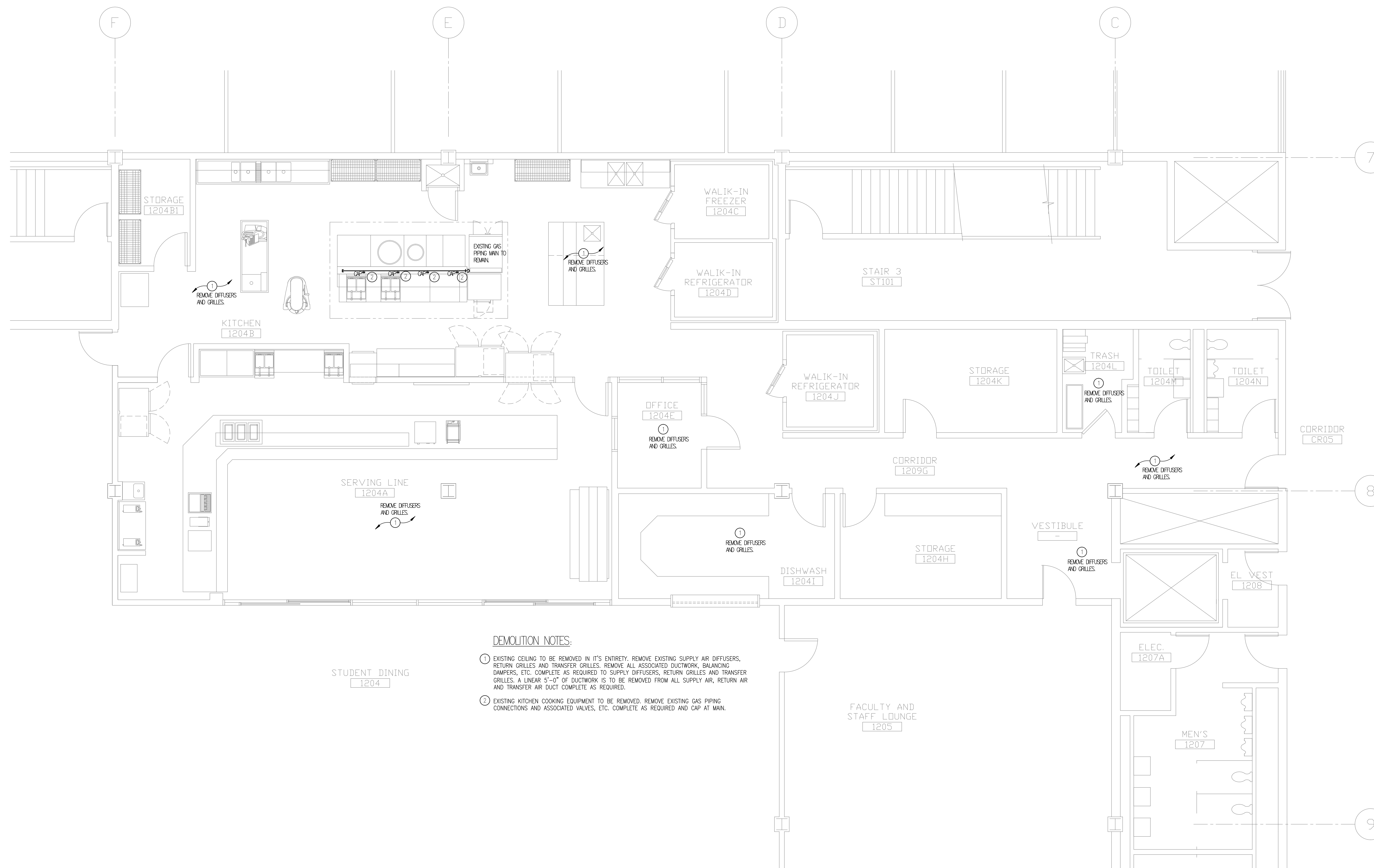
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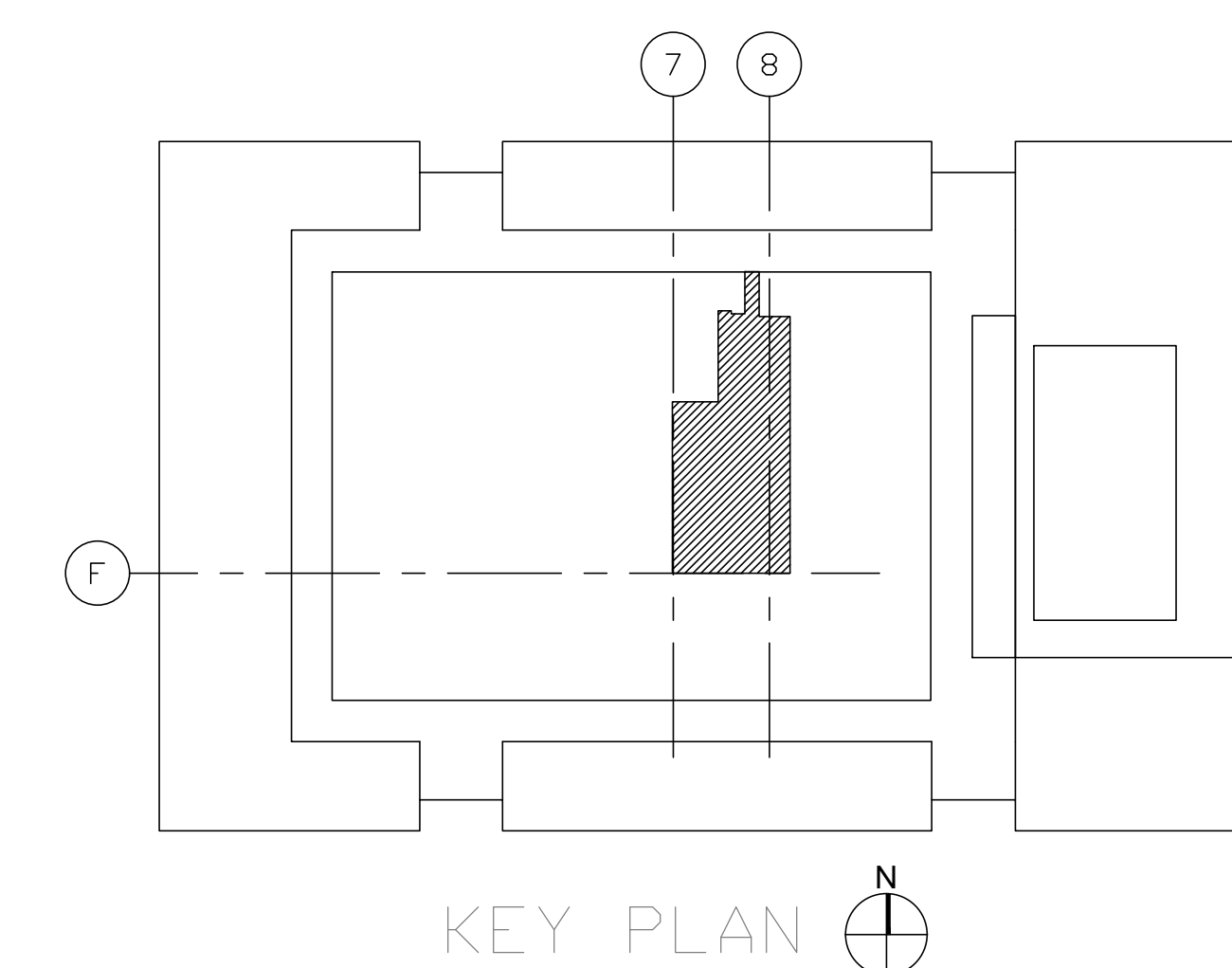


DEMOLITION NOTES:

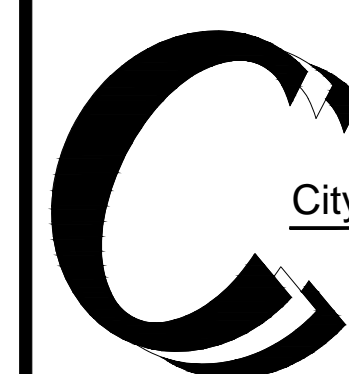
- EXISTING CEILING TO BE REMOVED IN IT'S ENTIRETY. REMOVE EXISTING SUPPLY AIR DIFFUSERS, RETURN GRILLES AND TRANSFER GRILLES. REMOVE ALL ASSOCIATED DUCTWORK, BALANCING DAMPERS, ETC. COMPLETE AS REQUIRED TO SUPPLY DIFFUSERS, RETURN GRILLES AND TRANSFER GRILLES. A LINEAR 5'-0" OF DUCTWORK IS TO BE REMOVED FROM ALL SUPPLY AIR, RETURN AIR AND TRANSFER AIR DUCT COMPLETE AS REQUIRED.
- EXISTING KITCHEN COOKING EQUIPMENT TO BE REMOVED. REMOVE EXISTING GAS PIPING CONNECTIONS AND ASSOCIATED VALVES, ETC. COMPLETE AS REQUIRED AND CAP AT MAIN.

1 PARTIAL LEVEL 1 MECHANICAL DEMOLITION PLAN - BUILDING U

SCALE: 1/4" = 1'-0"



NO.	DATE	REVISIONS
3	06-27-14	100% CONSTRUCTION DOCUMENTS
2	05-16-14	75% CONSTRUCTION DOCUMENTS
1	04-18-14	SCHEMATIC DESIGN



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SHEET TITLE

**DEMO MECHANICAL
PLAN**

PROJECT NO.

SCALE:

SHEET NO.

M1.0



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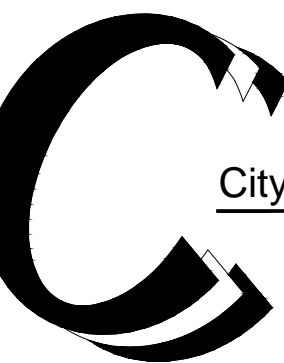
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NO.		
3	06-27-14	100% CONSTRUCTION DOCUMENTS
2	05-16-14	75% CONSTRUCTION DOCUMENTS
1	04-18-14	SCHEMATIC DESIGN
NO.	DATE	REVISIONS



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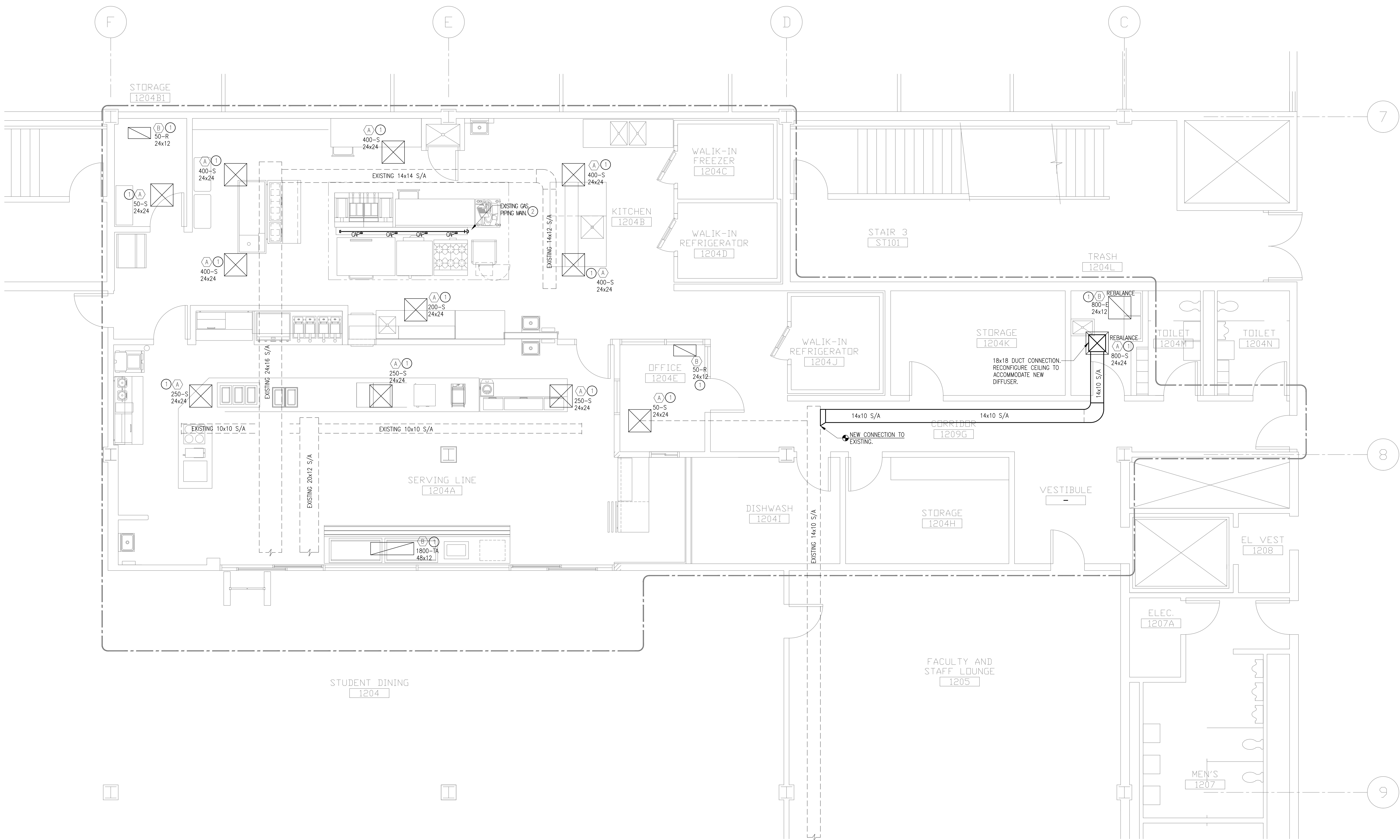
NEW WORK MECHANICAL PLAN

PROJECT NO.

SCALE:

SHEET NO.

M2.0



MECHANICAL NOTES:

1. PROVIDE NEW DIFFUSERS, EXHAUST/RETURN GRILLES, TRANSFER GRILLES AND REBALANCE TO NEW CFM IF AS REQUIRED. PROVIDE NEW DUCTWORK FROM DIFFUSERS AND GRILLES AND CONNECT TO EXISTING DUCT MAIN COMPLETE AS REQUIRED. FIELD VERIFY EXISTING DUCTWORK LOCATION.
2. PROVIDE NEW GAS CONNECTIONS TO NEW KITCHEN COOKING EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.

DIFFUSERS, GRILLES AND REGISTERS

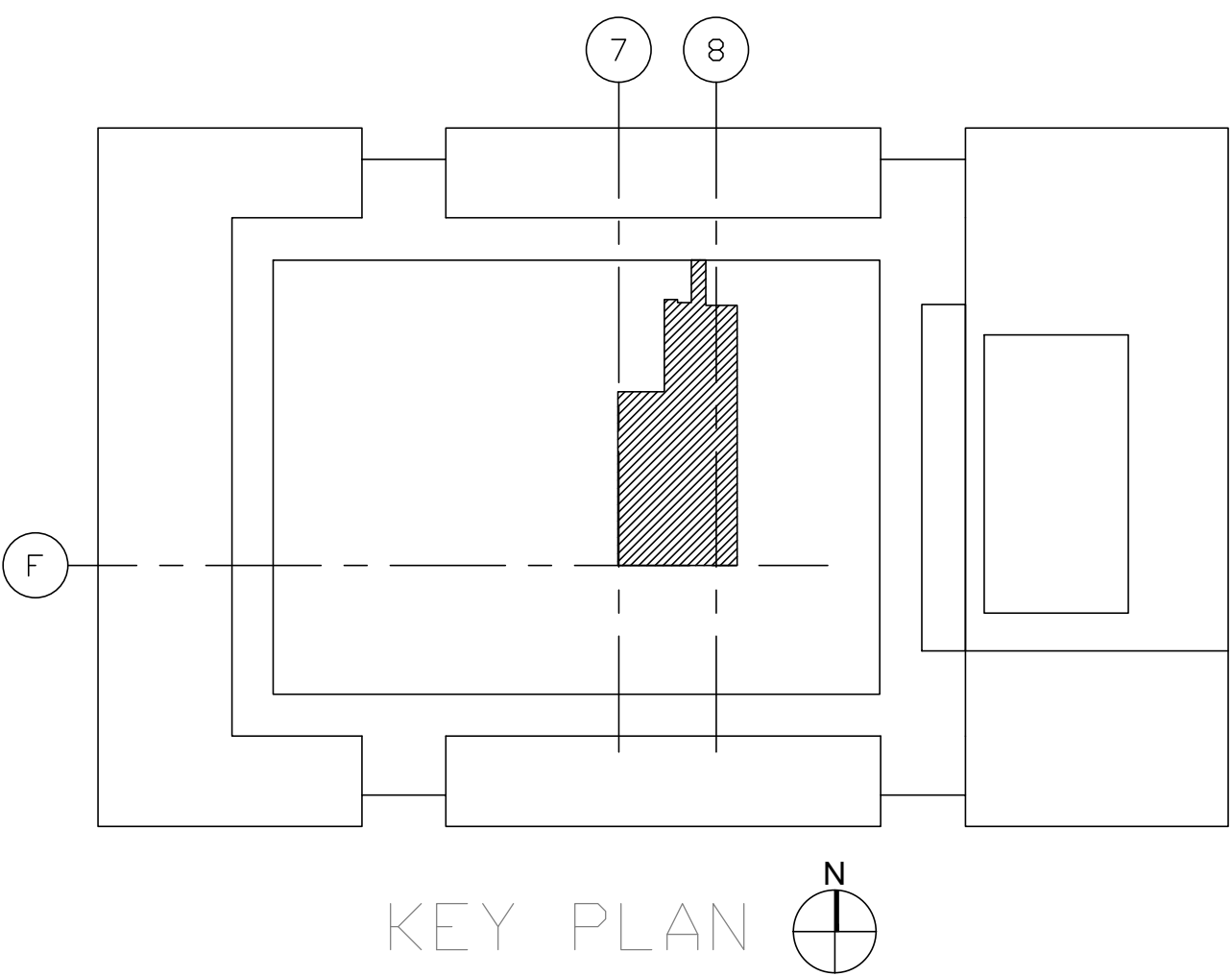
TAG	TYPE	SERVICE	FACE SIZE (INCHES)	MANUFACTURER	MODEL NO.	REMARKS
A	DIFFUSER	SUPPLY	SEE PLANS	TITUS	OMNI	1, 2, OBD, LAY-IN
B	GRILLE	RETURN/EXHAUST	SEE PLANS	TITUS	350-FL	1, 2, LAY-IN
C	GRILLE	TRANSFER	SEE PLANS	TITUS	350-FL	1, 2, LAY-IN

NOTES:

1. REFER TO MECHANICAL FLOOR PLANS FOR CAPACITIES AND SIZES UNLESS OTHERWISE NOTED IN THE SCHEDULES AND/OR PLANS. FACTORY INSULATED W/R-6 FOIL-BACKED INSULATION.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF EACH CEILING MOUNTED AIR DEVICE AND FOR TYPE OF CEILING GRID. REFER TO ARCHITECTURAL SPECS FOR FINAL FINISHES AND COLORS ON DIFFUSERS AND GRILLE.

1 PARTIAL LEVEL 1 MECHANICAL PLAN - BUILDING U

SCALE: 1/4" = 1'-0"



GENERAL ELECTRICAL NOTES (APPLICABLE TO ALL ELECTRICAL DRAWINGS)

1. DEFINITIONS:

"FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION.

"INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.

"PROVIDE" MEANS TO "FURNISH" AND "INSTALL".

"FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

2. CODES:

THE WORK SHALL COMPLY WITH CITY OF CHICAGO BUILDING CODE. THIS WOULD INCLUDE, BUT IS NOT LIMITED TO, THE CURRENT NFPA, ANSI, OSHA, ADA, AND ALL OTHER LOCAL MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT DOCUMENTS NOT WITHSTANDING, THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

3. INTERPRETATION OF THE DOCUMENTS

THE CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED, FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS. THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.

4. COORDINATION

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES, WHERE THERE ARE POTENTIAL CONFLICTS. THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.

5. SITE EXAMINATION

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

6. PERMITS

THE CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENCES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE ELECTRICAL WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

7. SAFETY

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

8. CONTRACTOR'S DRAWING REVIEW

ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. CONDUIT LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS. THE CONTRACTOR SHALL CONFIRM THAT CONDUIT LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

9. STATEMENT OF WORK

THE CONTRACTOR SHALL PROVIDE THE COMPLETE ELECTRICAL INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION

10. WORK PERFORMANCE REQUIREMENTS

ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING PRODUCT SPECIFICATIONS. ALL ROOF PENETRATIONS SHALL BE SEALED WATERTIGHT AT THE END OF EACH WORK DAY. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL TIMES. PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMFORT. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM EQUIPMENT RACK WITHOUT ADEQUATE PROTECTIVE MEASURES, AS DEEMED APPROPRIATE BY THE OWNER'S PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL CHECK, VERIFY AND LABEL PHASE ROTATION ANY TIME LEADS ARE CONNECTED TO A NEW OR EXISTING AC SERVICE, GENSET, RECTIFIER OR ANY MOTOR-EQUIPPED, 3-PHASE EQUIPMENT. ALL THREE-PHASE PANELS SERVING SINGLE-PHASE LOADS SHALL BE BALANCED WITHIN 10 PERCENT, USING AMMETER READINGS. MEASUREMENTS SHALL BE TAKEN AT THE END OF CONSTRUCTION AND AGAIN AFTER 30 DAYS IN SERVICE.

11. CUTTING AND PATCHING

ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.

12. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SCALED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER.

13. FIRESTOPPING

ALL PENETRATIONS IN WALLS, FLOORS, OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRE-SAFING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. ONLY PRODUCTS MANUFACTURED BY HILTI SHALL BE PREFERRED (NO SUBSTITUTIONS).

14. TEMPORARY POWER AND LIGHTING

THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR THIS WORK DURING CONSTRUCTION. TEMPORARY LIGHTING SHALL AT LEAST BE THE EQUAL OF (1)100-WATT FIXTURE EVERY 100 SQUARE FEET, WITH A MINIMUM ONE FIXTURE PER ROOM. TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL. COORDINATE TEMPORARY POWER REQUIREMENTS WITH THE OTHER TRADES AND PROVIDE ADEQUATE PROVISIONS. THE CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD.

15. PANELBOARDS

FOR PANELBOARDS IN WHICH WORK OCCURS PER THESE DOCUMENTS, SHALL BE PROVIDED WITH UPDATED-TYPEWRITTEN DIRECTORIES. GIVEN ONLY FOR CLARITY AND QUANTITY, CIRCUIT NUMBERS SHOWN IN THE PLANS MAY NOT NECESSARILY REPRESENT ACTUAL CIRCUIT NUMBERS IN PANELBOARD. FROM FLUSH-MOUNTED PANELBOARDS, STUB-OUT ONE 3/4" CONDUIT INTO THE CEILING CAVITY FOR EACH SET OF 3 SPARES AND/OR SPACES OR FRACTION THEREOF.

16. CABLING

UNLESS NOTED OTHERWISE, ALL WIRE AND CABLE SHALL BE 600-VOLT COPPER CONDUCTORS WITH TYPE "THHN/THWN" INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR LIGHTING AND POWER CIRCUITS AND #14 AWG FOR CONTROL CIRCUITS. PROVIDE GROUNDING FOR CIRCUITS PER THE CBC. UNLESS SPECIFICALLY NOTED OTHERWISE IN THE PLANS, ALL CABLING FOR POWER RECEPTACLES SHALL BE (1) #12-(2) #12 (200K NEUTRAL) +1 #12 (GRD.) IN 3/4" C. NUMBERED CIRCUITS INDICATED ON PLANS ARE CREATED FOR THE CONVENIENCE OF DESIGN ONLY AND DO NOT NECESSARILY REPRESENT THE ACTUAL CIRCUIT NUMBERS IN THE BRANCH CIRCUIT PANELBOARDS. DESIGN INTENT MUST BE FOLLOWED THROUGHOUT.

17. CONDUIT/RACEWAY SYSTEMS

THE CONDUIT ROUTINGS INDICATED ARE ONLY DIAGRAMMATIC IN NATURE. FIELD CONDITIONS SHALL DICTATE THE CONTRACTOR'S EXACT CONDUIT ROUTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER THE NEC - CBC AND FOR COORDINATION WITH OTHER DISCIPLINES. ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS, SUCH AS TO FOLLOW STRUCTURAL SURFACE CONTOURS AND NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHALL BE RUN TOGETHER, IN GROUPING. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL AND/OR TO COLUMN AND BEAMS. ALL EXPOSED CONDUIT SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL. NO ADDITIONAL COST TO OWNER WILL BE INCURRED DUE TO LACK OF COORDINATION. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND MINIMUM SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. CONNECTORS AND COUPLINGS SHALL BE INSULATED-THROAT COMPRESSION TYPE ONLY. RIGID GALVANIZED-STEEL (RGS) CONDUIT SHALL BE USED WHEN CONDUIT IS INSTALLED IN OUTDOOR AREAS OR WHERE OTHERWISE EXPOSED TO PHYSICAL HARM. EMERGENCY SYSTEMS SHALL BE RUN IN SEPARATE RACEWAY/CONDUIT SYSTEM(S). A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS, WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY OR CABLE ARMOR/Sheath SHALL NOT BE USED AS THE PRIMARY EQUIPMENT GROUNDING CONDUCTOR. RACEWAY SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS AND SHALL BE BONDED AT ALL POINTS TO THE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH THE APPLICABLE PROVISIONS IN ARTICLE 250 OF THE CBC.

18. EQUIPMENT

ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS WORK SHALL BE NEW AND SHALL HAVE THE APPROPRIATE UL LISTING AND/OR FM APPROVAL. UNLESS NOTED OTHERWISE, DISCONNECT/SAFETY SWITCHES SHALL BE NON-FUSED HEAVY-DUTY 600-VOLT TYPE. INDOOR ENCLOSURES SHALL BE NEMA 1 AND OUTDOOR ENCLOSURES SHALL BE NEMA 3R.

19. MECHANICAL EQUIPMENT

ALL MECHANICAL EQUIPMENT WILL BE INSTALLED BY THE DIVISION 15 CONTRACTOR. COORDINATE THE EXACT LOCATION AND NATURE OF ANY REQUIRED ELECTRICAL CONNECTION TO BE PROVIDED FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN. VERIFY THE ELECTRICAL SERVICE REQUIRED FOR EACH ITEM OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FURNISHING SUCH POWER. REFER TO MECHANICAL DRAWING FOR MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. MAKE CONNECTION AND PROVIDE APPROPRIATE WIRE. CONDUIT AND OVERCURRENT PROTECTION FOR EQUIPMENT. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE CLEARANCES AS REQUIRED BY THE NEC. MOTORS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 15 WORK, WITH POWER CONNECTED UNDER DIVISION 16 WORK. FINAL CONNECTION SHALL BE MADE WITH SUITABLE LENGTH OF LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT. ALL MOTOR BRANCH CIRCUITS, ETC., SHALL BE FIELD-VERIFIED FOR PROPER SEQUENCE AND MOTOR ROTATION. PHASE SEQUENCE SHALL BE A-B-C (VIEWED FROM FRONT, LEFT TO RIGHT, TOP TO BOTTOM, FRONT TO REAR). REFER TO MECHANICAL DRAWINGS FOR MOTORS THAT ARE TO BE INTERLOCKED.

20. MISCELLANEOUS SUPPORTING MEMBERS

ALL ANGLES, CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, THREADED RODS, ETC., REQUIRED TO SUPPORT LIGHT FIXTURES, LADDER TRAY OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL THREADED RODS SHALL BE A MINIMUM OF 3/8" IN DIAMETER. ALL LIGHTING FIXTURES AT SUSPENDED CEILINGS SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH CBC.

GENERAL COORDINATION NOTES:

1. EACH TRADE CONTRACTOR SHALL VISIT CONSTRUCTION SITE PRIOR TO BIDDING, EXAMINE SCOPE AND CONDITIONS OF OTHER CONTRACT WORK, EXAMINE EXISTING CONDITIONS AND ALL INTERFERENCES AND REQUIRED COORDINATION IN ORDER TO INCLUDE EFFECT OF SAID CONDITIONS IN THEIR BID. BID DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL REQUIRED RELOCATIONS, OFFSETS, CHANGE IN ASPECT RATIOS, OR ROUTING CHANGES REQUIRED TO INTEGRATE WORK WITH ALL OTHER CONDITIONS OR TRADES. WORK INSTALLED BEFORE COORDINATING SO AS TO CAUSE INTERFERENCES WITH OTHER TRADES SHALL BE REMOVED AND REWORKED WITHOUT COST TO OWNER. COST OF PROVIDING SUCH RELOCATIONS, OFFSETS, SIZE, CHANGES, REROUTING, ETC. SHALL BE INCLUDED IN BID, CODE CONFORMING SCALED (1/4") COORDINATED DRAWINGS SHALL BE PREPARED BY EACH TRADE TO FACILITATE AND VERIFY FIT AND CONGRUENCE OF THEIR INSTALLATION WITH OTHER TRADES.

2. WHERE ADDITIONAL DETAILS, DIAGRAMS, EQUIPMENT DATA, AND ISOMETRICS ARE REQUIRED BY BUILDING DEPARTMENT OR CODE AUTHORITIES FOR PERMIT OR APPROVAL, CONTRACTOR SHALL PROVIDE SAME AT NO ADDITIONAL COST.

3. BUILDING PLANS SHOWN ARE COMPILED FROM SOURCES BELIEVED TO BE ACCURATE. HOWEVER, THE INFORMATION SHOWN ON THESE PLANS IS SCHEMATIC AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROPER DIMENSIONS, SIZES, SYSTEM VOLTAGES, QUANTITIES AND EXTENT OF WORK.

4. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR COORDINATION AND EXTENT OF THE WORK OF THE VARIOUS TRADES AND IMPACT ON THEIR WORK.



















5. WITH THE APPROVAL OF THE ARCHITECT AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE MODIFICATIONS IN THE WORK, INCLUDING REROUTING AS REQUIRED BY INTERFERENCE WITH STRUCTURAL, GENERAL AND WORK OF OTHER TRADES FOR PROPER EXECUTION OF THE WORK.

6. REFER TO THE ARCHITECTURAL DRAWINGS, FIELD CONDITIONS AND DETAILS FOR EXACT LOCATION OF PARTITIONS.

7. CUTTING AND PATCHING FOR THEIR WORK SHALL BE PERFORMED BY EACH TRADE CONTRACTOR UNLESS NOTED OTHERWISE.

8. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL EQUIPMENT, FIXTURES, CONTROLS AND DEVICES.

ELECTRICAL SYMBOLS

	SGR.	SINGLE GROUNDED RECEPTACLE
	DGR.	DUPLEX GROUNDED RECEPTACLE
	DDGR.	DEDICATED DUPLEX GROUNDED RECEPTACLE
	C.O.	CONVENIENCE OUTLET
	SPO.	SPECIAL PURPOSE OUTLET
	DR.	DIRECT WIRED CONNECTION
	ECS.	ELECTRICAL CONDUIT STUB UP
	JB.	JUNCTION BOX
	SW.	SWITCH
	TEL.	TELEPHONE
	JB ON EQUIPMENT	
	ANSUL FIRE PULL	
	KW.	KILOWATTS
	V.	VOLT
	AMP.	AMPS
	HP.	HORSEPOWER
	AFF.	ABOVE FINISHED FLOOR
	FA.	WIRED FROM ABOVE



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KITCHEN EQUIPMENT

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3 06-27-14 100% CONSTRUCTION DOCUMENTS

2 05-16-14 75% CONSTRUCTION DOCUMENTS

1 04-18-14 SCHEMATIC DESIGN

NO. DATE REVISIONS



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CAPITAL PLANNING
AND CONSTRUCTION

KITCHEN AND SERVRY
RENOVATIONS

OLIVE HARVEY COLLEGE
10001 SOUTH WOODLAWN AVENUE
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ELECTRICAL NOTES &
SYMBOLS

PROJECT NO.

SCALE

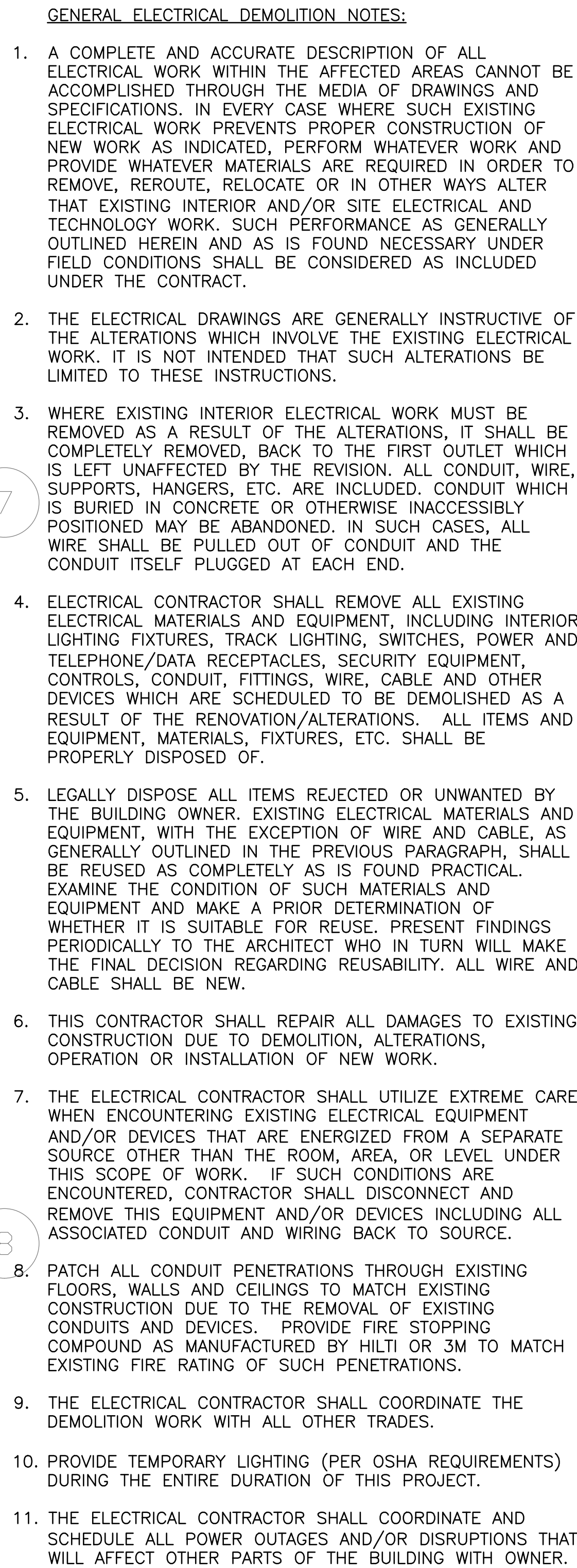
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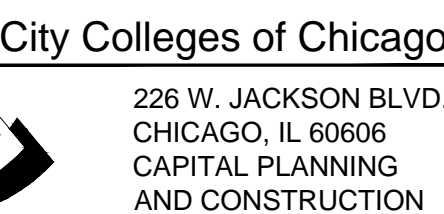


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DEMO POWER PLAN

E1.0

SCALE: $1/4" = 1'-0"$

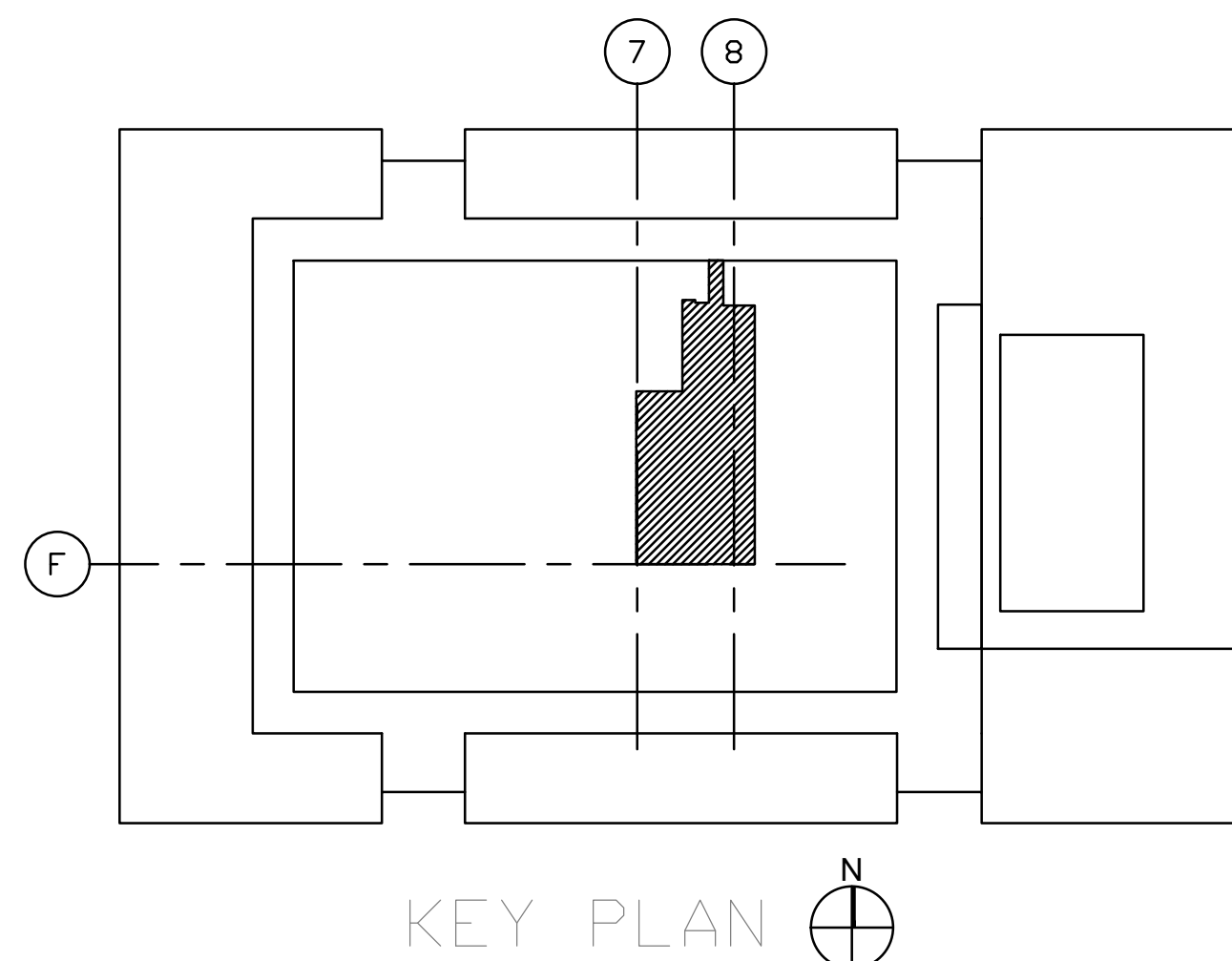
CONDENSERS FOR WALK-IN UNITS TO BE REPLACED. REFER TO POWER PLAN AND EQUIPMENT SCHEDULES FOR MORE DETAILS.

EXISTING KITCHEN HOOD AND HOOD EQUIPMENT INCLUDING EXHAUST AND LIGHTING ARE TO REMAIN. ANSUL FIRE SUPPRESSION SYSTEM TO BE REPLACED, REFER TO KITCHEN HOOD DETAIL FOR MORE INFORMATION.

MAINTAIN ALL EXISTING BRANCH CIRCUITS, CONDUITS AND RACEWAY FOR EQUIPMENT TO BE REPLACED AS FIELD CONDITIONS ALLOW. REFER TO POWER PLAN AND ELECTRICAL SCHEDULES FOR SPECIFIC DETAILS.

EQUIPMENT AND WORK TABLES TO REMAIN AS-IS.

CAP EXISTING BRANCH CIRCUITS USED FOR EXISTING CONVERTIBLE RECEPTACLES TO BE REPLACED. RE-USE BRANCH CIRCUITS FOR NEW RECEPTACLES. REFER TO POWER PLANS FOR MORE DETAIL.



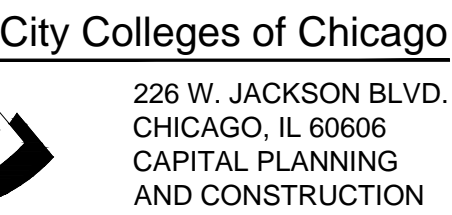


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- GENERAL ELECTRICAL DEMOLITION NOTES:**
1. A COMPLETE AND ACCURATE DESCRIPTION OF ALL ELECTRICAL WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIUM OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE, REROUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE ELECTRICAL AND TELECOMMUNICATIONS PERFORMANCE. PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED AS INCLUDED UNDER THE CONTRACT.
 2. THE ELECTRICAL DRAWINGS ARE GENERALLY INSTRUCTIVE OF THE ALTERATIONS WHICH INVOLVE THE EXISTING ELECTRICAL WORK. IT IS NOT INTENDED THAT SUCH ALTERATIONS BE LIMITED TO THESE INSTRUCTIONS.
 3. WHERE EXISTING INTERIOR ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, IT SHALL BE CUT OFF NEARLY RIGID, EACH END OF THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE REVISION. ALL CONDUIT, WIRE, SUPPORTS, HANGERS, ETC. ARE INCLUDED. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, ALL WIRE SHALL BE PULLED OUT OF CONDUIT AND THE CONDUIT ITSELF PLUGGED AT EACH END.
 4. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING INTERIOR LIGHTING FIXTURES, TRACK LIGHTING, SWITCHES, POWER AND TELEPHONE/DATA RECEPTACLES, SECURITY EQUIPMENT, CONTROLS, CONDUIT, FITTINGS, WIRE, CABLE AND OTHER DEVICES WHICH ARE SCHEDULED TO BE DEMOLISHED AS A RESULT OF THE RENOVATION/ALTERATIONS. ALL ITEMS AND EQUIPMENT, MATERIALS, FIXTURES, ETC. SHALL BE PROPERLY DISPOSED OF.
 5. LEGALLY DISPOSE ALL ITEMS REJECTED OR UNWANTED BY THE BUILDING OWNER. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, WITH THE EXCEPTION OF WIRE AND CABLE, AS GENERALLY OUTLINED IN THE PREVIOUS PARAGRAPH, SHALL BE REUSED AS COMPLETELY AS IS FOUND PRACTICAL. EXAMINE THE CONDITION OF SUCH MATERIALS AND EQUIPMENT AND MAKE A PRIOR DETERMINATION OF WHETHER IT IS WORTHY FOR REUSE. PRESENT FINDINGS PERIODICALLY TO THE ARCHITECT WHO IN TURN WILL MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE SHALL BE NEW.
 6. THIS CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO DEMOLITION, ALTERATIONS, OPERATION OR INSTALLATION OF NEW WORK.
 7. THE ELECTRICAL CONTRACTOR SHALL UTILIZE EXTREME CARE WHEN ENCOUNTERING EXISTING ELECTRICAL EQUIPMENT AND/OR DEVICES THAT ARE ENERGIZED FROM A SEPARATE SOURCE OTHER THAN THE ROOM, AREA, LEVEL UNDER THE SCOPE OF WORK. IF SUCH CONDITIONS ARE ENCOUNTERED, CONTRACTOR SHALL DISCONNECT AND REMOVE THIS EQUIPMENT AND/OR DEVICES INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
 8. PATCH ALL CONDUIT PENETRATIONS THROUGH EXISTING FLOORS, WALLS AND CEILINGS TO MATCH EXISTING CONSTRUCTION DUE TO THE REMOVAL OF EXISTING CONDUITS AND DEVICES. PROVIDE FIRE STOPPING COMPOUND AS MANUFACTURED BY HILTI OR 3M TO MATCH EXISTING FIRE RATING OF SUCH PENETRATIONS.
 9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE DEMOLITION WORK WITH ALL OTHER TRADES.
 10. PROVIDE TEMPORARY LIGHTING (PER OSHA REQUIREMENTS) DURING THE ENTIRE DURATION OF THIS PROJECT.
 11. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL POWER OUTAGES AND/OR DISRUPTIONS THAT WILL AFFECT OTHER PARTS OF THE BUILDING WITH OWNER.
 12. RE-USE EXISTING BRANCH CIRCUITS AND ALL SWITCHING LOCATIONS.

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KITCHEN AND SERVERY RENOVATIONS

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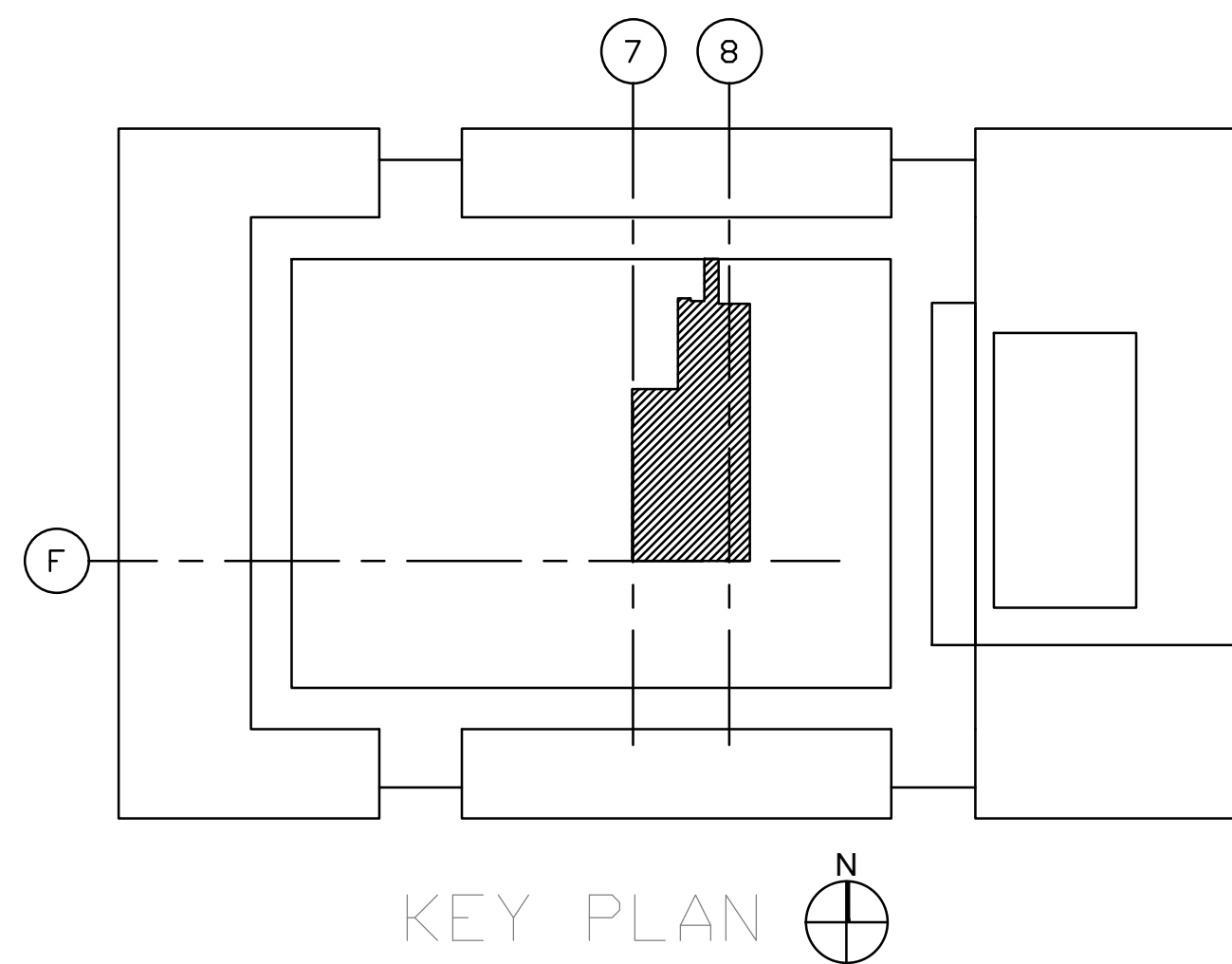
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DEMO LIGHTING PLAN

PROJECT NO.

SHEET NO.

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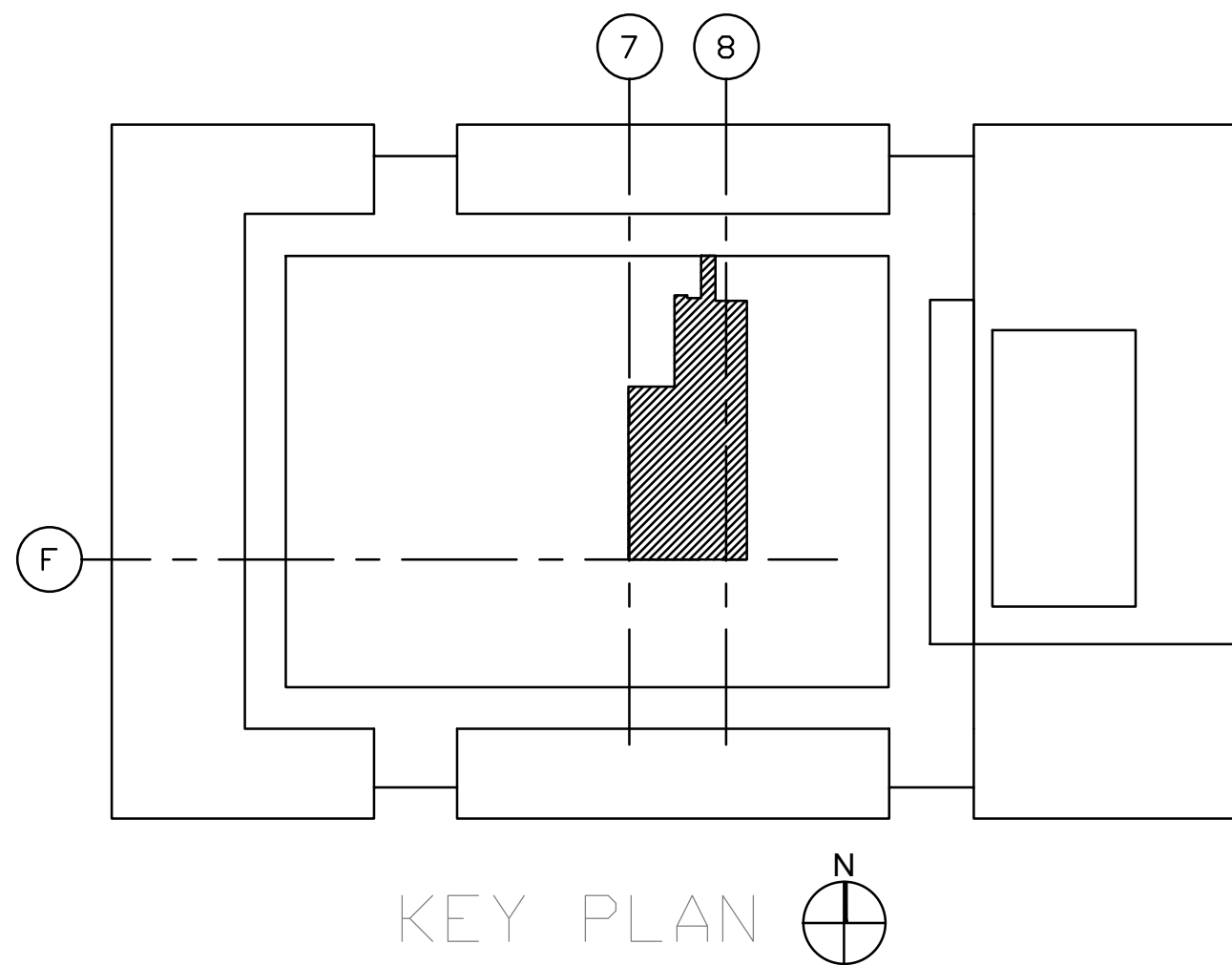
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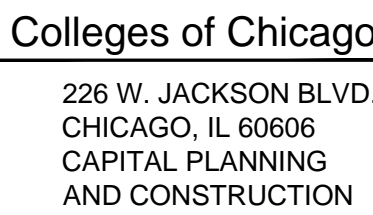
1. CONNECT ALL NEW POWER RECEPTACLES AND EQUIPMENT TO EXISTING KITCHEN AND LIGHTING PANELS UNLESS OTHERWISE NOTED.
2. ALL NEW CONDUIT RACEWAY SYSTEMS SHALL BE CONCEALED WITHIN DROP CEILING, WALL PARTITIONS AND FLOOR SLAB. EXPOSED CONDUIT RACEWAY SYSTEMS SHALL NOT BE ACCEPTABLE.
3. CONTRACTOR SHALL COORDINATE EXACT LOCATION, PLACEMENT AND/OR MOUNTING HEIGHTS OF ALL NEW POWER, TELEPHONE, DATA DEVICES. COORDINATE ALL FLOOR CONDUIT RACEWAY WITH FINAL PLACEMENT OF FURNITURE SYSTEM PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS, PLANS AND ELEVATIONS.
4. CONTRACTOR SHALL PROVIDE ALL SAW-CUTTING AND PATCHING OF EXISTING CONCRETE FLOOR SLAB FOR INSTALLATION OF ALL RECESSED FLOOR MOUNTED DEVICES AND ASSOCIATED CONDUIT RACEWAYS.
5. CONTRACTOR SHALL PAINT ALL EXPOSED ELECTRICAL CONDUIT RACEWAYS, BOXES, WHIPS, CABLING, ETC. "PT-1 WHITE". REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL FINISH REQUIREMENTS.
6. ELECTRICAL CONTRACTOR SHALL SUBMIT A 1/4" SCALED COORDINATION SHOP/INSTALLATION DRAWING INDICATING EXACT LOCATION AND MOUNTING HEIGHT OF ALL FLOOR BOXES, WALL AND CEILING RECEPTACLE DEVICES, CEILING AND WALL MOUNTED LIGHTING FIXTURES AND ASSOCIATED CONTROLS, TELEPHONE AND DATA DEVICES, ETC. TO OWNER AND ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
7. REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REFERENCING TAG NUMBER TO INDIVIDUAL PIECES OF KITCHEN EQUIPMENT REQUIRING ELECTRICAL POWER AND CONNECTION.
8. REPLACE ALL EXISTING CONVENIENCE OUTLETS LOCATED IN THE KITCHEN AND SERVERY. EXTEND AND REUSE EXISTING BRANCH CIRCUITS.



1. USE EXISTING 225A, 120/208V, 3-PHASE, 4-WIRE KITCHEN PANELS TO PROVIDE POWER TO ALL NEW AND RELOCATED KITCHEN EQUIPMENT AND RECEPTACLE BRANCH CIRCUITS UNLESS OTHERWISE NOTED. RE-USE ANY EXISTING BREAKERS, BRANCH CIRCUIT CONDUITS, AND RACEWAY AS FIELD CONDITIONS ALLOW. PROVIDE NEW BREAKERS IN EXISTING PANELS FOR NEW EQUIPMENT. REFER TO PANEL SCHEDULES ON DRAWING E5.0 FOR MORE DETAIL.
2. PROVIDE SINGLE BRANCH CIRCUIT TO EACH CONDENSER AND EVAPORATOR COIL PACKAGE SYSTEM. PROVIDE NEW UNI-STRUT RACK SUPPORT AND SHELVES FOR HOUSING CONDENSERS. RE-USE CONDUITS AND RACEWAY. USE EXISTING BRANCH CIRCUIT RACEWAY FOR CONNECTING CONDENSERS AND EVAPORATOR COILS.
3. NEW STEAMER EQUIPMENT TO REQUIRE TWO ELECTRICAL CONNECTIONS. RE-USE EXISTING BRANCH CIRCUITS FROM DISTRIBUTION PANEL IHP-K LOCATED IN ELECTRICAL CLOSET.
4. REPLACE EXISTING ANSUL FIRE PROTECTION PULL STATION AND HARDWARE. REFER TO KITCHEN HOOD DETAIL ON DRAWING E6.0 FOR MORE DETAIL.



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E2.0



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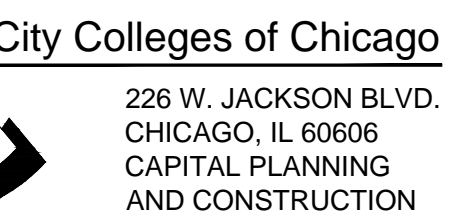
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1. CONNECT ALL NEW FIXTURES AND LIGHTING EQUIPMENT TO EXISTING KITCHEN AND LIGHTING PANELS UNLESS OTHERWISE NOTED. COORDINATE ALL NEW LIGHTING WITH DEMO PLANS.
2. ALL NEW CONDUIT RACEWAY SYSTEMS SHALL BE CONCEALED WITHIN DROP CEILING AND WALL PARTITIONS. EXPOSED CONDUIT RACEWAY SYSTEMS SHALL NOT BE ACCEPTABLE.
3. CONTRACTOR SHALL COORDINATE EXACT LOCATION, PLACEMENT AND/OR MOUNTING HEIGHTS OF ALL NEW POWER, TELEPHONE, DATA DEVICES. COORDINATE ALL FLOOR CONDUIT RACEWAY WITH FINAL PLACEMENT OF FURNITURE SYSTEM PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS, PLANS AND ELEVATIONS.
4. CONTRACTOR SHALL PROVIDE ALL SAW-CUTTING AND PATCHING OF EXISTING CONCRETE FLOOR SLAB FOR INSTALLATION OF ALL RECESSED FLOOR MOUNTED DEVICES AND ASSOCIATED CONDUIT RACEWAYS.
5. CONTRACTOR SHALL PAINT ALL EXPOSED ELECTRICAL CONDUIT RACEWAYS, BOXES, WHIPS, CABLING, ETC. "PT-1 WHITE". REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL FINISH REQUIREMENTS.
6. ELECTRICAL CONTRACTOR SHALL SUBMIT A 1/4" SCALED COORDINATION SHOP/INSTALLATION DRAWING INDICATING EXACT LOCATION AND MOUNTING HEIGHT OF ALL FLOOR BOXES, WALL AND CEILING RECEPTACLE DEVICES, CEILING AND WALL MOUNTED LIGHTING FIXTURES AND ASSOCIATED CONTROLS, TELEPHONE AND DATA DEVICES, ETC. TO OWNER AND ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.

1. RE-USE EXISTING BRANCH CIRCUITING FOR ALL NEW LIGHT FIXTURES CONTRACTOR TO VERIFY LIGHTING PANELS AND UPDATED PANEL DIRECTORIES.
2. FIXTURES SHOWN AS EMERGENCY TYPE TO REMAIN ON EMERGENCY AND LIFE SAFETY PLAN. REUSE EXISTING EMERGENCY BRANCH CIRCUITS.
3. REMOVE AND REPLACE ALL EXISTING LIGHT SWITCHES AND MAINTAIN ALL EXISTING SWITCH LOCATIONS



3	06-27-14	100% CONSTRUCTION DOCUMENTS
2	05-16-14	75% CONSTRUCTION DOCUMENTS
1	04-18-14	SCHEMATIC DESIGN
NO.	DATE	REVISIONS



OLIVE HARVEY COLLEGE
10001 SOUTH WOODLAWN AVENUE
CHICAGO, ILLINOIS 60628

E3.0



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KITCHEN EQUIPMENT

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EXISTING PANELBOARD 1-KP-1

LOCATION: KITCHEN													
SERVICE: 208/120V-3PH-4W													

EXISTING PANELBOARD 1-KP-2

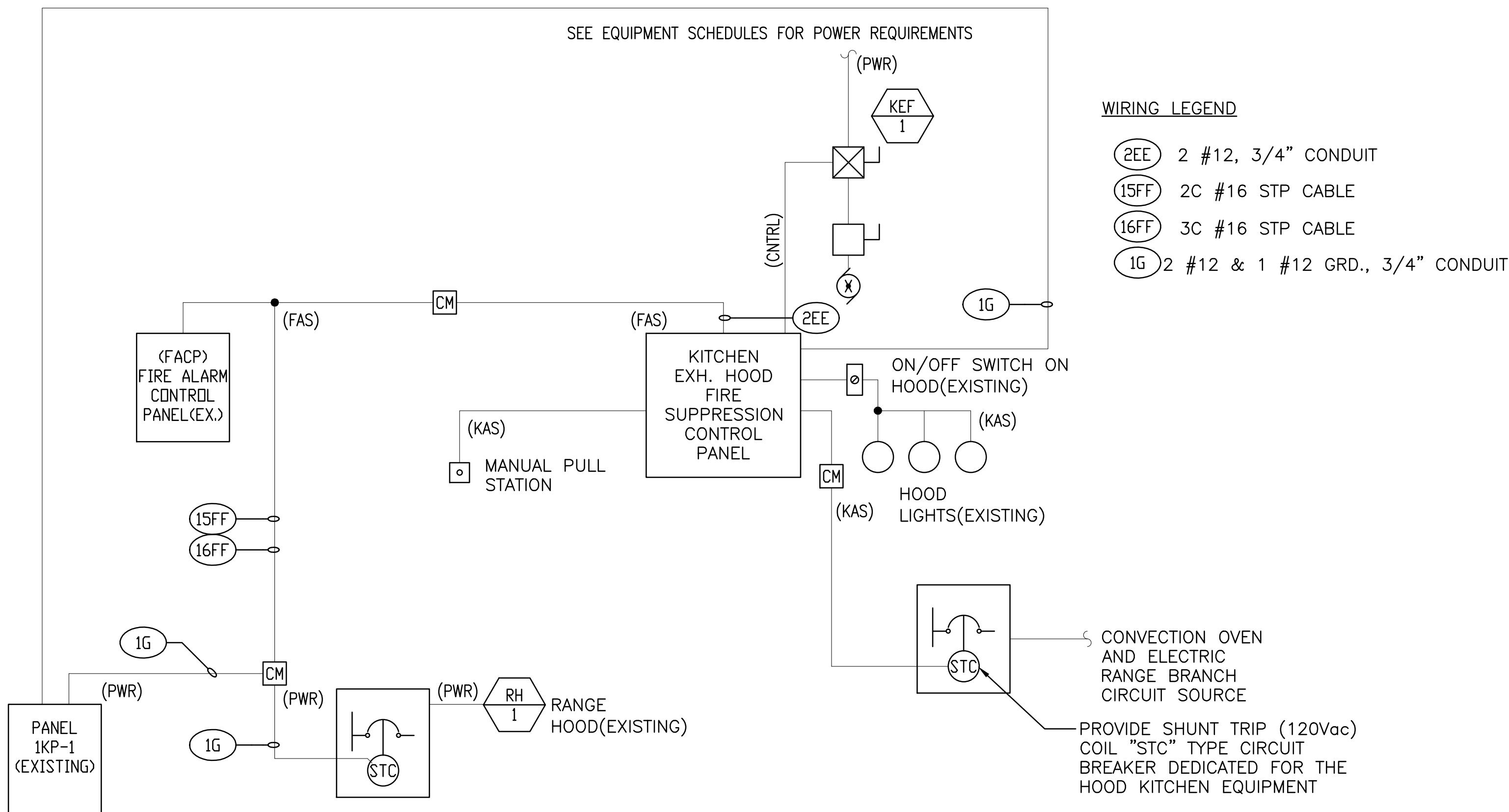
LOCATION: KITCHEN HALLWAY SERVICE: 208/120V-3PH-4W														208 V	NEUTRAL BUS: STANDARD, COPPER GROUND BUS: STANDARD, COPPER MOUNTING: SURFACE ENCLOSURE: NEMA 1			
MAIN CIRCUIT BREAKER: 200A MAIN BUS RATING AND TYPE: 200A COPPER INTERRUPT RATING: 42,000 AIC																		
DESCRIPTION	CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION								
				A	B	C												
M REFRIGERATION SYSTEM	1	45A-3P	4000	4000			20A-3P	2	M COMPRESSOR 1/2HP(EXISTING --									
M	3		4000		4000		--	4	M TO BE REMOVED)									
M	5		4000			4000			6	M								
M COMPRESSOR 1/2HP(EXISTING --	7	20A-3P		800			800	20A-3P	8	M DISPOSAL 3HP								
M TO BE REMOVED)	9				800		800	--	10	M								
M	11						800	800	--	12	M							
M DISHWASHER 2-1 1/2HPS	13	20A-3P	1000	6000			5000	20A-3P	14	M TANK HEATER 15KW								
	15				5000		5000	--	16	M								
	17						5000	5000	--	18	M							
M COFFEE WARMER FACULTY LOUNGE	19	20A-1P	500	1700			1200	20A-1P	20	M COMPACTOR 1/2HP								
M WALK-IN COOLER	21	20A-1P	240		1440		1200	20A-1P	22	M COOKS OFFICE WIREMOLD								
M TURN STYLE ELEC EVE.	23	20A-1P	500			500		20A-1P	24	M SPARE								
M CAN CRUSHER 1HP	25	20A-3P	500	1900			1400	20A-3P	26	M CONVECTION OVEN								
	27	--	500		1900		1400	--	28	M								
M	29	--	500			1900	1400		30	M								
SPARE	31	20A-1P		0				20A-1P	32	M SPARE								
M REFRIG FACULTY LOUNGE	33	20A-1P	800		800			20A-1P	34	M SPARE								
M SELF SER. SANDWICH	35	20A-1P	500			500		20A-1P	36	M SPARE								
M SELF SER REFRIG	37	20A-1P	500	500				20A-1P	38	M SPLIT DUPLEX FACULTY LOUNGE								
M SELF SER PEPS MECH	39	20A-1P	1200		1920		720	20A-1P	40	M SPLIT DUPLEX FACULTY LOUNGE								
SPARE	41	20A-1P				0		20A-1P	42	M SPARE								
				14900	15860	12700												
TOTAL VA PER PHASE																		
CONNECTED LOAD				DEMAND FACTOR			DEMAND LOAD											
L LIGHTING				0.00 KVA			1.00 0.00 KVA											
R RECEPTACLES				0.00 KVA			0.50 0.00 KVA											
M MOTOR / EQUIP.				43.46 KVA			1.00 43.46 KVA											
H ELECTRIC HEAT				0.00 KVA			1.00 0.00 KVA											
TOTAL CONNECTED LOAD:				43.46 KVA			TOTAL DEMAND LOAD: 43.5 KVA											
							TOTAL DEMAND CURRENT: 120.64 AMPS											

EXISTING PANELBOARD 1-KP-3

LOCATION: KITCHEN													
SERVICE: 208/120V-3PH-4W				208 V		NEUTRAL BUS: STANDARD, COPPER							
MAIN CIRCUIT BREAKER: 200A				GROUND BUS: STANDARD, COPPER									
MAIN BUS RATING AND TYPE: 200A COPPER				MOUNTING: SURFACE									
INTERRUPT RATING: 42,000 AC				ENCLOSURE: NEMA 1									
DESCRIPTION	CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION			
				A	B	C							
M DISPOSER	1	20A-3P	835	3635			3000	40A-2P	2	M SANITIZER 6W/SLICER			
M	3	-	835		3635		3000		4	M			
M	5	-	835			835			6	M SPARE			
M MIXER 1HP(EXISTING)	7	20A-3P	1200	3500			2300	25A-1P	8	M ICE MACHINE			
M	9	-	1200		1200			20A-1P	10	M SPARE			
M	11	-	1200			1200		20A-1P	12	M SPARE			
M STEAMER CONTROL(EXISTING)	13	20A-1P	100	100			50A-3P	14		CHARBROLL--TO BE REMOVED			
SPARE	15	20A-1P			0		-	-	16				
M SHUNT TRIP(EXISTING)	17	20A-1P	100			100			18				
M GRIDDLE	19	20A-3P	5700	5800			100	20A-1P	20	M SHUNT TRIP			
SPARE	21	-	5700		6200		500	-	22	M ISLAND VENT L			
M	23	-	5700			5700			24	M SPARE			
M BRAISING PAN(EXISTING)	25	50A-3P	3000	3250			250	20A-1P	26	M HOOD LIGHTS			
	27	-	3000		4200		1200	20A-1P	28	M RAISED RAIL REFRIGERATOR			
	29	-	3000			4200	1200	20A-2P	30	M RAISED RAIL REFRIGERATOR			
SPARE	31	20A-1P		0				-	32				
SPACE	33				0				34	SPACE			
SPACE	35					0			36	SPACE			
SPACE	37					0			38	SPACE			
SPACE	39					0			40	SPACE			
SPACE	41					0			42	SPACE			
				16485	15435	12035							
TOTAL VA PER PHASE													
CONNECTED LOAD				DEMAND FACTOR			DEMAND LOAD						
L LIGHTING				0.00 KVA			0.00 KVA						
R RECEPTACLES				0.00 KVA			0.50 KVA						
M MOTOR / EQUIP.				26.21 KVA			1.00 26.21 KVA						
H ELECTRIC HEAT				0.00 KVA			1.00 0.00 KVA						
TOTAL CONNECTED LOAD:				26.21 KVA			TOTAL DEMAND LOAD: 26.2 KVA						
							TOTAL DEMAND CURRENT: 72.74 AMPS						

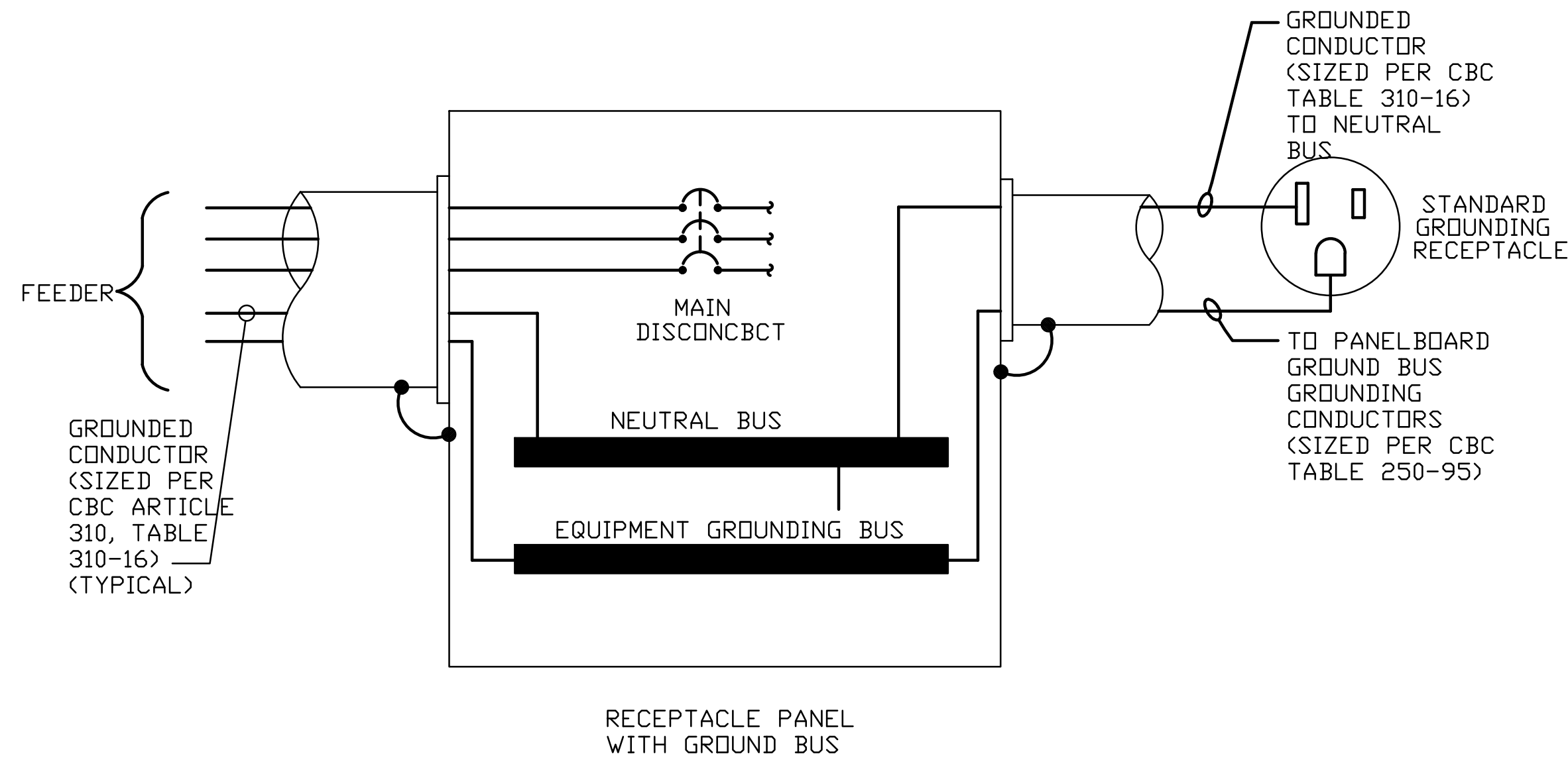
EXISTING PANELBOARD 1-KP-4

LOCATION: SERVERY SERVICE: 208/120V-3PH-4W 208 V NEUTRAL BUS: STANDARD, COPPER MAIN CIRCUIT BREAKER: 200A GROUND BUS: STANDARD, COPPER MAIN BUS RATING AND TYPE: 200A COPPER MOUNTING: SURFACE INTERRUPT RATING: 42,000 AIC ENCLOSURE: NEMA 1													
DESCRIPTION	CCT. NO.	CIRCUIT BREAKER	CIRCUIT LOAD	CONNECTED LOAD (VA)			CIRCUIT LOAD	CIRCUIT BREAKER	CCT. NO.	DESCRIPTION			
				A	B	C							
M SPARE(EXISTING)	1	20A-3P		500			500	40A-2P	2	M COFFEE MACHINE S WALL(EXISTING)			
M FIRE SUPPRESSION SYSTEM	3	20A-1P	1800		2300		500		4	M COFFEE MACHINE S WALL(EXISTING)			
M SHUNT TRIP(EXISTING)	5					0		20A-1P	6	M SPARE			
M FRYER	7	60A-3P	5667	6267			600	20A-2P	8	M 220V REC S WALL(EXISTING)			
M	9		5667		6267		600		10	M 220V REC S WALL(EXISTING)			
M	11		5667			5667	20A-1P	12	M SPARE S WALL				
M SPARE	13	20A-1P		0			50A-3P	14	M SPARE S WALL				
M WORK TOP REFRIGERATOR	15	20A-1P	1000		1000				16	M SPARE S WALL			
RECEPT S WALL(EXISTING)	17	20A-1P				0			18	M SPARE S WALL			
M FRYER	19	60A-3P	5667	5667			200	20A-2P	20	M TRAVISSEN 2P(EXISTING)			
SPARE	21		5667		5667		200		22	M			
SPARE	23		5667			6367	720		24	M S W RECEPT(EXISTING)			
M RECEPT & DRINK SIGN S WALL(EXISTING)	25	50A-3P	3600	5400			1800	20A-1P	26	M BLENDERS			
SPARE	27				1800		1800	20A-1P	28	M BLENDERS			
SPARE	29					1800	1800	20A-2P	30	M SOUP/SALAD BAR			
M COLD PANS	31	20A-1P	800	1700			1100	20A-2P	32	M HOT FOOD WELL			
R RECEPTACLES-SERVICE	33	20A-1P	1080		1680		600	20A-2P	34	M SNEEZE GUARDS			
R TURNSTILE	35	20A-1P	500			2400	1900	20A-2P	36	M SNEEZE GUARDS			
SPACE	37			1800			1800	20A-2P	38	M SNEEZE GUARDS			
SPACE	39				1050		1050	20A-2P	40	M REFRIGERATED MERCHANDISER			
SPACE	41					1050	1050		42	M			
				21534	19964	17304							
TOTAL VA PER PHASE													
CONNECTED LOAD				DEMAND FACTOR			DEMAND LOAD						
L LIGHTING				0.00 KVA			1.00			0.00 KVA			
R RECEPTACLES				1.58 KVA			0.50			0.79 KVA			
M MOTOR / EQUIP.				44.68 KVA			1.00			44.68 KVA			
H ELECTRIC HEAT				0.00 KVA			1.00			0.00 KVA			
TOTAL CONNECTED LOAD:				46.27 KVA			TOTAL DEMAND LOAD:				45.5 KVA		
							TOTAL DEMAND CURRENT:				126.24 AMP		



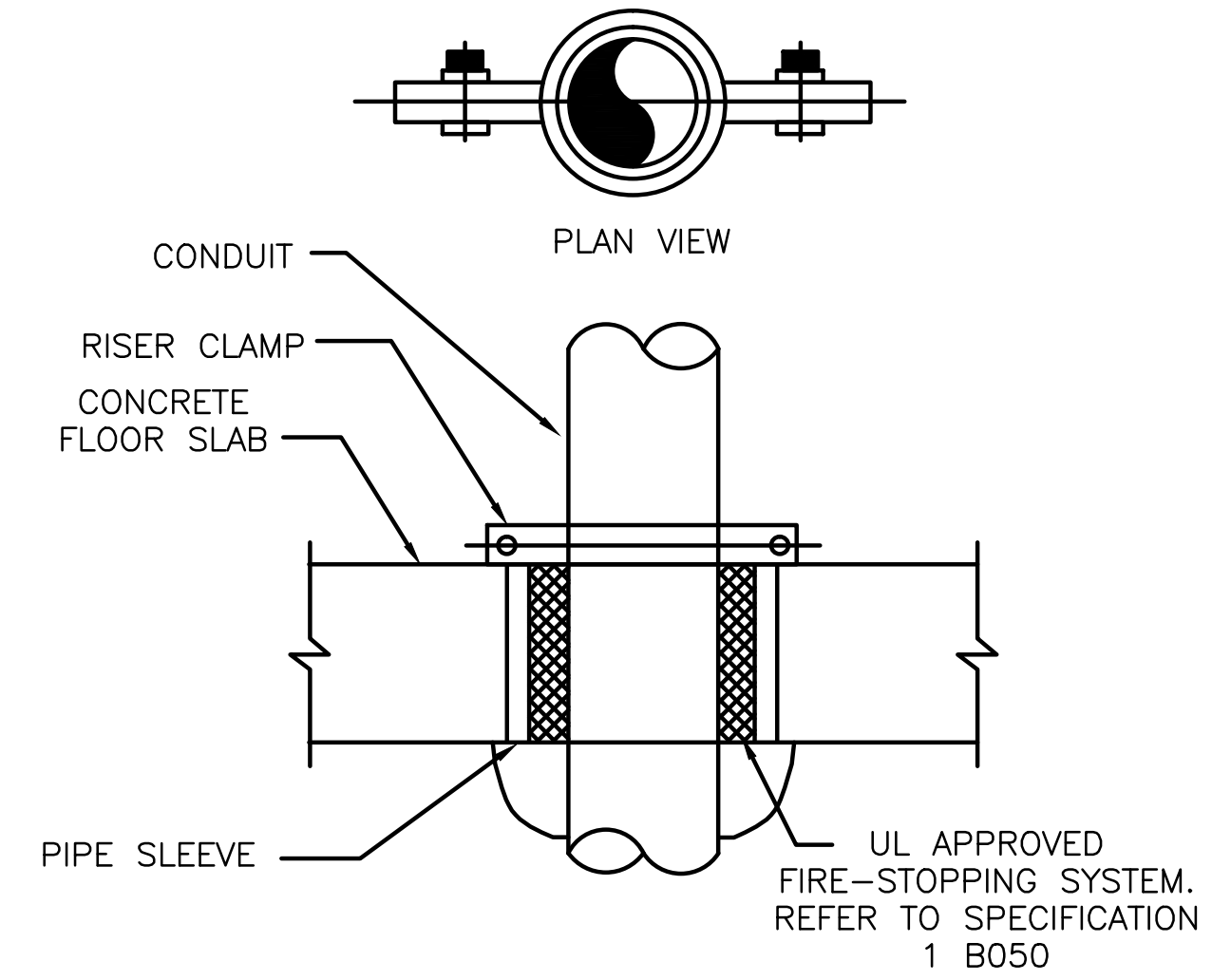
KITCHEN HOOD MAU CONTROL SYSTEM KHCS

SCALE: N.T.S.



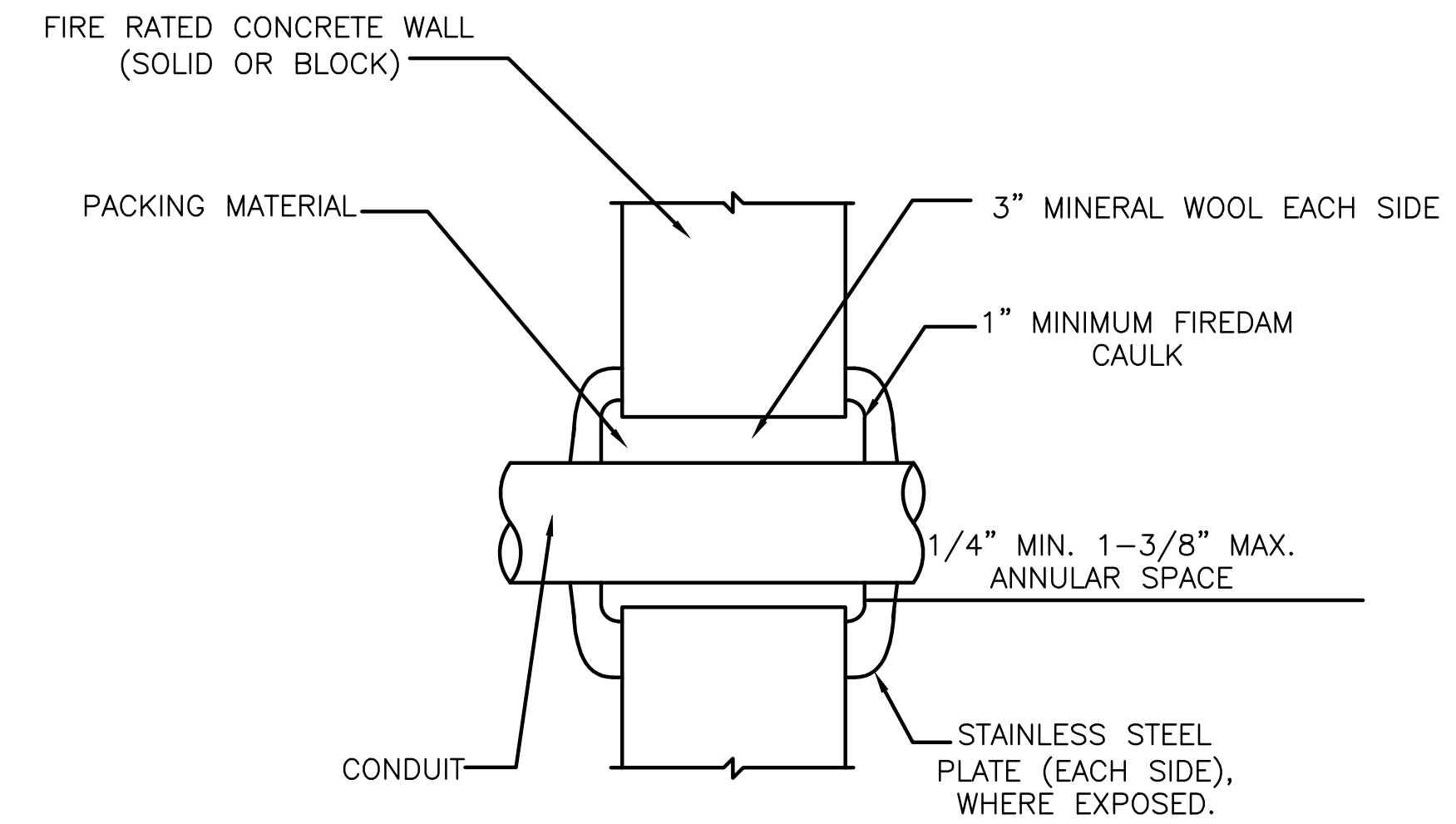
RECEPTACLE PANEL GROUNDING DIAGRAM

SCALE: N.T.S.



CONDUIT INTERIOR FLOOR PENETRATION

NOT TO SCALE



CONDUIT INTERIOR CONCRETE WALL PENETRATION DETAIL

SCALE: N.T.S.



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3	06-27-14	100% CONSTRUCTION DOCUMENTS
2	05-16-14	75% CONSTRUCTION DOCUMENTS
1	04-18-14	SCHEMATIC DESIGN

NO.	DATE	REVISIONS
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City Colleges of Chicago
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CHICAGO, IL 60606
CAPITAL PLANNING
AND CONSTRUCTION

KITCHEN AND SERVERY RENOVATIONS

OLIVE HARVEY COLLEGE
10001 SOUTH WOODLAWN AVENUE
CHICAGO, ILLINOIS 60628

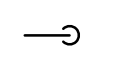
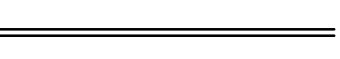
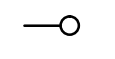
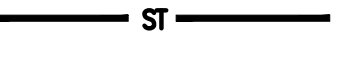
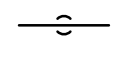
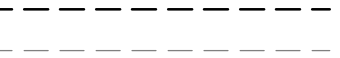
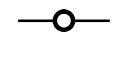

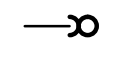


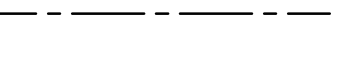

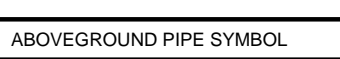
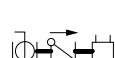

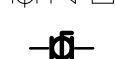
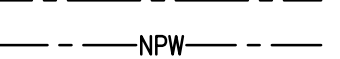



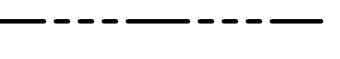





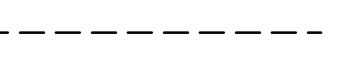

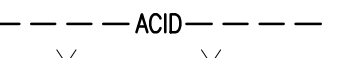
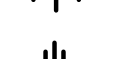

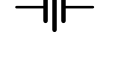



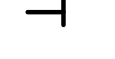

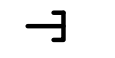

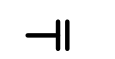
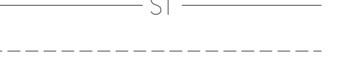





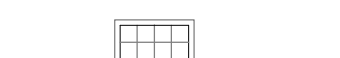
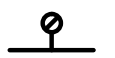








SHEET TITLE

ELECTRICAL DETAILS

PROJECT NO. SHEET NO.

SCALE:

E6.0

SYMBOLS LIST			
SYMBOLS LIST		PIPING SYSTEMS	
SYMBOL	DESCRIPTION	UNDERGROUND PIPE SYMBOL	DESCRIPTION
	ELBOW DOWN		SANITARY, SOIL OR WASTE PIPE
	ELBOW UP		STORM SEWER PIPE
	TEE DN		SANITARY VENT PIPE
	TEE UP		EXISTING SANITARY, SOIL OR WASTE PIPE
	FIXTURE TRAP		EXISTING STORM SEWER PIPE
	CHECK VALVE		EXISTING SANITARY VENT PIPE
	BALANCING COCK		DOMESTIC COLD WATER PIPE
	BALANCING VALVE		NON-POTABLE WATER
	BALL VALVE / ISOLATION VALVE		DOMESTIC HOT WATER PIPE
	OS&Y VALVE		DOMESTIC HOT WATER RECIRC. PIPE
	GATE VALVE		SANITARY, SOIL OR WASTE PIPE
	GLOBE VALVE		STORM SEWER PIPE
	MIXING VALVE		OVERFLOW STORM SEWER PIPE
	WALL SLEEVE		SANITARY VENT PIPE
	UNION		ACID VENT PIPE
	FLOOR CLEAN OUT		PIPING TO BE REMOVED
	CLEAN OUT		EXISTING DOMESTIC COLD WATER PIPE
	PIPE CAP		EXISTING DOMESTIC HOT WATER PIPE
	WALL CLEAN OUT		EXISTING DOMESTIC HOT WATER RECIRC. PIPE
	STRAINER		EXISTING SANITARY, SOIL OR WASTE PIPE
	THERMOMETER		EXISTING STORM SEWER PIPE
	PRESSURE GAUGE		EXISTING SANITARY VENT PIPE
	HOSE BIB, EXTERIOR WITH BOX & KEY		FD - FLOOR DRAIN
	HOSE BIB, EXTERIOR		FS - FLOOR SINK
	HOSE BIB		
	HOSE BIB, SPECIAL USE		
	DOUBLE DETECTOR CHECK VALVE		
	WATER METER		
	WATER METER ASSEMBLY		
	PUMP		
	INLINE BACK FLOW PREVENTOR		
	DISCONNECT FROM EXISTING		
	CONNECT TO EXISTING		

GENERAL PLUMBING NOTES:

- ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE ILLINOIS PLUMBING CODE, THE LATEST EDITION OF THE CHICAGO BUILDING CODE, THE LATEST EDITION OF THE CITY OF CHICAGO PLUMBING CODE, AND ALL RELATIVE AMENDMENTS
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS AND FEES.
- DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, DUCTWORK, CONDUITS, RACEWAYS, ETC. AS SHOWN ON THE DRAWINGS DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. PLUMBING CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTINGS SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS, OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN THE COMPLETION DATE OF THE PROJECT.
- COORDINATE & VERIFY WITH GENERAL CONTRACTOR AND RELATED DISCIPLINES, PRIOR TO START OF ANY WORK, ALL WORK TO BE PERFORMED OUTSIDE OF THE 5'-0" BUILDING PERIMETER LIMITS OF CONSTRUCTION
- ALL PIPING PASSING THRU FLOORS, WALLS, CEILINGS OR ROOF SHALL HAVE A DUCTILE IRON PIPE SLEEVE INSTALLED AROUND THE PIPE AND/OR INSULATION. SLEEVES THROUGH FOUNDATION WALLS SHALL BE AT LEAST 2 PIPE SIZES LARGER THAN THE SERVICE PIPE. PROVIDE AN ESCUTCHEON PLATE AROUND PENETRATIONS EXPOSED TO VIEW. ESCUTCHEON PLATES SHALL BE LARGE ENOUGH TO COVER THE ENTIRE HOLE. ALL PENETRATIONS SHALL BE SEALED TO MAINTAIN THE WALL/FLOOR/ROOF FIRE & INSULATION RATINGS.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FINISHED CEILING HEIGHTS, AND LOCATION OF WALL, ROOF, AND FLOOR OPENINGS.
- PROVIDE HANGERS AND SUPPLEMENTAL SUPPORT STEEL FOR ALL EQUIPMENT AND PIPING. ALL WATER SUPPLY PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS. PIPE COVERING PROTECTION SADDLES OR SHEET METAL INSULATION SHIELDS.
- CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID OR DOING ANY WORK. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS.
- PROVIDE ACCESS TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT IN MECHANICAL ROOMS SUCH AS ISOLATION VALVES, RECIRCULATION PUMPS, ETC. SHALL BE INSTALLED AT A REASONABLE HEIGHT IN ORDER TO FACILITATE MAINTENANCE.
- EXCEPT FOR PIPING ASSOCIATED WITH THE SUMP PUMPS, PLUMBING PIPING SHALL NOT BE ROUTED THROUGH OR OVER ANY ELEVATOR SHAFTS, ELEVATOR EQUIPMENT AREAS, ELECTRICAL EQUIPMENT AREAS, OR COMMUNICATIONS AREAS.
- PLUMBING CONTRACTOR TO GIVE ALL LOCATIONS AND DIMENSIONS OF ALL REQUIRED ACCESS PANELS TO THE GENERAL CONTRACTOR. GENERAL CONTRACTOR WILL SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL ALL FINISH REQUIREMENTS PRIOR TO INSTALLATION.
- IN ANY CASE WHERE NEW EQUIPMENT IS INSTALLED AND HAS TO BE CONNECTED TO EXISTING SYSTEMS, THE CONTRACTOR SHALL VERIFY THE CAPACITIES AT THE INDICATED POINT OF CONNECTION. SHOULD THE EXISTING CONDITION REQUIRE THE NEW BRANCH TO BE ROUTED TO ANOTHER LOCATION, THE CONTRACTOR SHALL PERFORM THIS WORK AS PART OF HIS CONTRACT.

DOMESTIC WATER:

- ALL WATER SUPPLIED TO EQUIPMENT BY OTHER TRADES SHALL HAVE AN ISOLATION VALVE AND AN APPROVED BACKFLOW PREVENTER WHICH SHALL BE SUPPLIED AND INSTALLED BY THIS CONTRACTOR.
- ALL DOMESTIC WATER SUPPLIES TO FIXTURES AND EQUIPMENT SHALL HAVE AIR CHAMBERS.
- ALL WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED, INCLUDING ALL PIPING ABOVE CEILINGS, IN PIPE CHASES, AND IN WALLS. SEE SPECIFICATIONS FOR TYPE AND THICKNESS OF INSULATION. PROVIDE VALVE HANDLE EXTENSIONS ON ALL INSULATED PIPING.
- ALL HOT WATER SUPPLY PIPING SHALL BE INSTALLED TO COMPENSATE FOR EXPANSION OF THE PIPE BY INSTALLING PIPE ANCHORS, GUIDES, EXPANSION JOINTS, PIPE OFFSETS, OR LOOPS. EXPANSION JOINTS TO ACCOMMODATE MOVEMENT IN (3) AXIS(5).
- MOP SINKS ONLY WITH HOSE THREADED FAUCETS SHALL HAVE A VACUUM BREAKER ON THE SUPPLY AFTER THE VALVE, LOCATED 7'-6" ABOVE FINISHED FLOOR.
- EACH GROUP OF FIXTURES SUPPLIED WITH A BRANCH FROM THE MAIN SHALL HAVE AN ISOLATION VALVE NEAR THE POINT OF CONNECTION TO THE MAIN. ALL EQUIPMENT SUPPLIED BY COLD AND/OR HOT WATER SHALL HAVE AN ISOLATION VALVE ON THE WATER SUPPLY.
- PITCH ALL SUPPLY AND RETURN LINES TO DRAIN COMPLETELY THROUGH LOWER EQUIPMENT FIXTURES, UNIONS, AND DRAIN VALVES. INSTALL A 1/2" DRAIN VALVE WITH 3/4" HOSE THREAD AND VACUUM BREAKER OUTLET IN ALL MAIN PIPING RUNS WHICH WOULD NOT BE ABLE TO DRAIN THRU A LOWER PIECE OF EQUIPMENT.
- ALL WATER DISTRIBUTION SYSTEMS, POTABLE AND NONPOTABLE, SHALL BE IDENTIFIED BY COLOR MARKING OR METAL TAGS AS REQUIRED BY ASME A13.1.
- COPPER PIPE ABOVE GROUND SHALL BE (TYPE L) MINIMUM, SWEAT WITH WROUGHT FITTINGS
- PROVIDE UNIONS AND/OR FLANGES TO DISCONNECT ALL PERTINENT EQUIPMENT INCLUDING BUT NOT LIMITED TO PUMPS, WATER HEATERS, TANKS, FILTERS AND VALVE TRAINS.

SANITARY & VENT:

- ALL SANITARY PIPING SHALL SLOPE AT 1/4" PER FOOT FOR 2'-1/2" AND SMALLER, AT 1/8" PER FOOT FOR 3' TO 6", AND 1/16" FOR 8' AND LARGER PIPING UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- ALL HORIZONTAL DRAINS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NO MORE THAN 100 FEET APART, EXCEPT THAT THE MAXIMUM SHALL BE 50 FEET FOR DRAINS 4"Ø OR LESS, 150 FEET FOR DRAINS 10"Ø OR LARGER.
- ALL SOIL STACKS SHALL RUN FULL SIZE THROUGH THE ROOF.
- THE DIAMETER OF ALL VENTS SHALL BE AT LEAST ONE-HALF THE DIAMETER OF THE DRAIN LINE SERVED BUT NOT LESS THAN 1-1/2".

INSULATION:

- DOMESTIC HOT & COLD WATER, SUSPENDED PIPING: HEAVY DENSITY, FIBERGLASS PIPE INSULATION, 1" THICK, WITH FLAME RETARDANT VAPOR BARRIER JACKET, AS MANUFACTURED BY OWENS-CORNING OR JOHNS-MANVILLE. ALL PIPING SHALL BE INSULATED AS WELL AS ALL WATER PIPING IN EXTERIOR WALLS WHERE FREEZING MAY OCCUR.

- VENTS-EXPOSED PIPING: HEAVY DENSITY, FIBERGLASS PIPE INSULATION, 1/2" THICK, WITH FLAME RETARDANT VAPOR BARRIER JACKET, AS MANUFACTURED BY OWENS-CORNING OR JOHNS-MANVILLE WITH PVC JACKET. INSULATE INTERIOR, EXPOSED, HORIZONTAL VENT PIPING & VERTICAL LEADERS FROM VTR TO PREVENT CONDENSATION.

MATERIALS: (HUB & SPIGOT)

- ABOVE-GROUND STORM, DRAINAGE AND VENT PIPE SHALL BE: CAST-IRON PIPE, HUB & SPIGOT: ASTM A-74; CISPI 301; ASTM A888 COPPER OR COPPER-ALLOY PIPE: ASTM B-42, ASTM B-302 COPPER OR COPPER-ALLOY TUBING (TYPE K OR L); ASTM F75; ASTM B-88; ASTM B-251; ASTM B-306 GALVANIZED STEEL PIPE: ASTM A-53
- ABOVE-GROUND WATER DISTRIBUTION PIPE SHALL BE: ALL SIZES - COPPER OR COPPER-ALLOY TUBING (TYPE K OR L); ASTM B-74; ASTM B-88; ASTM B-251; ASTM B-4476" AND LARGER - GALVANIZED STEEL PIPE: ASTM A-53
- ABOVE-GROUND SOLAR PIPE SHALL BE: ALL SIZES - BRAZED COPPER OR COPPER-ALLOY PIPING (TYPE K OR L).

ABBREVIATIONS			
ABBRV	DESCRIPTION	ABBRV	DESCRIPTION
AD	ACCESS DOOR	IW	INDIRECT WASTE
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
BV	BALL VALVE	MB	MOP BASIN
CI	CAST IRON	NIC	NOT IN CONTRACT
CL	CENTER LINE	NPW	NON-POTABLE WATER
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEANOUT	RM	ROOM
CV	CHECK VALVE	SA	SANITARY
CW	COLD WATER	SE	SEWAGE EJECTOR
DFU	DRAIN FIXTURE UNITS	SK	SINK
DIA, Ø	DIAMETER	SP	SUMP PUMP
DN	DOWN	ST	STORM
DWG	DRAWING	SF	SQUARE FEET
EX	EXISTING	TMV	THERMOSTATIC MIXING VALVE
EA	EACH	TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	U.C.	UNDER COUNTER
°F	DEGREES FAHRENHEIT	UG	UNDERGROUND
FL	FLOOR	V	VENT
HD	HUB DRAIN	VB	VACUUM BREAKER
HW	HOT WATER	VTR	VENT THROUGH ROOF
HWR	HOT WATER RECIRCULATING	WC	WATER CLOSET
IM	ICE MACHINE	FCO	FLOOR CLEANOUT



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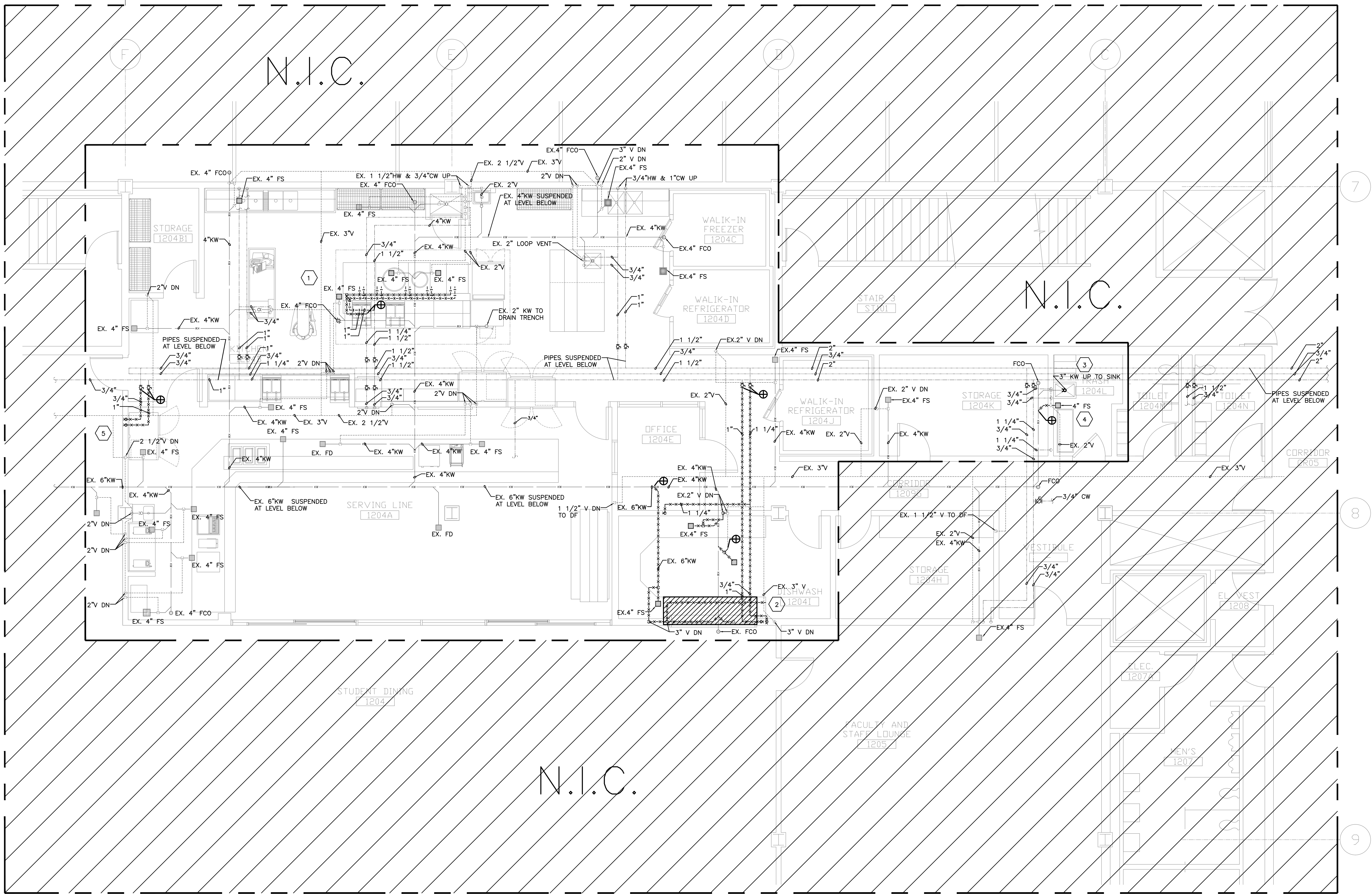
PLUMBING NOTES &
SYMBOLS

PROJECT NO:

SHEET NO:

SHEET

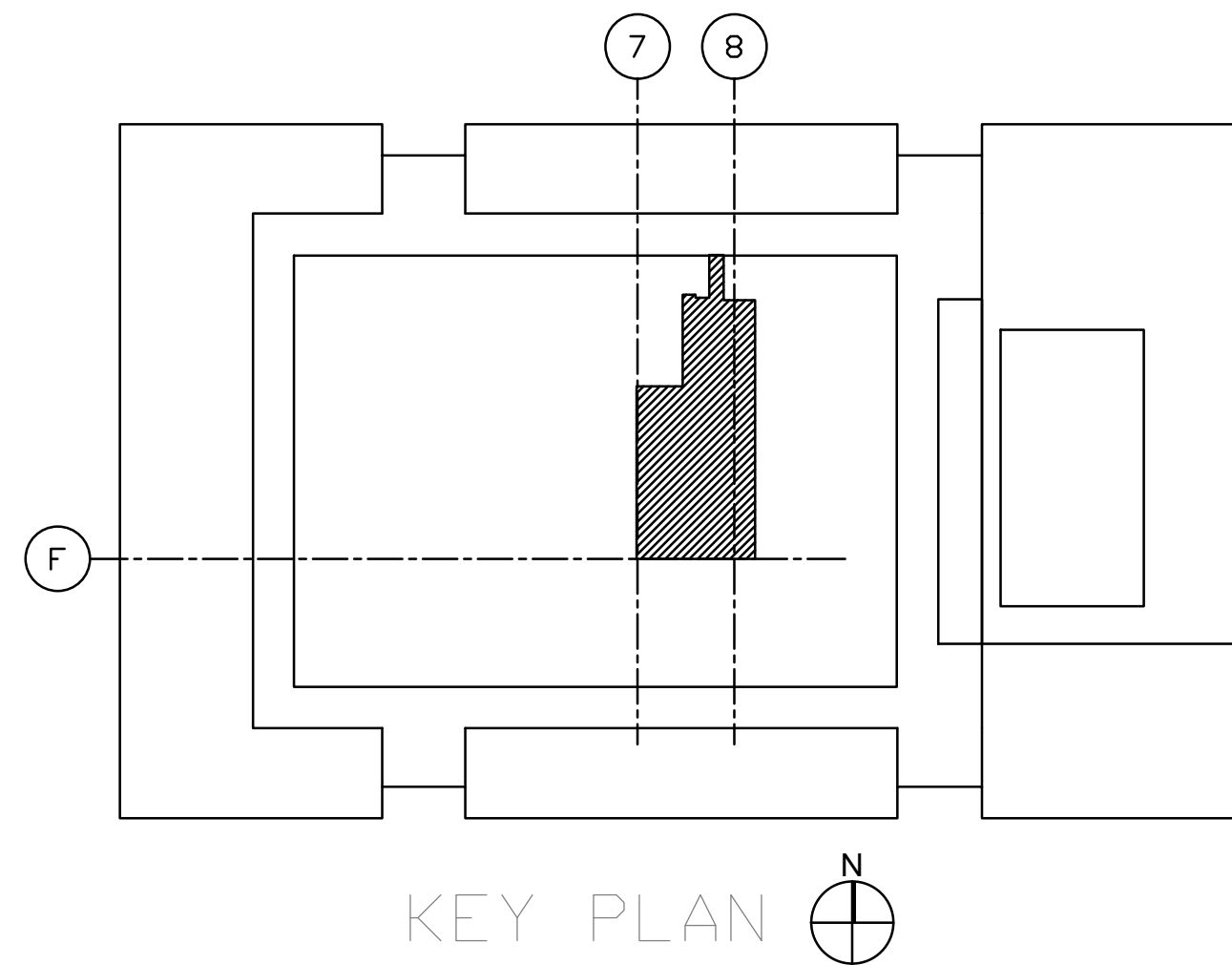
P0.1



1 DEMOLITION PLUMBING PLAN
SCALE: 1/4" = 1'-0"

PLUMBING DEMO WORK
KEYED NOTES:

- 1 REMOVE CW AND HW PIPING TO DEMOLISHED EQUIPMENT BACK TO THE MAINS, NO DEAD-LEGS ARE PERMITTED.
- 2 REMOVE EXISTING DISHWASHER, WORK SINK AND ASSOCIATED PIPING BACK TO THE MAINS, NO DEAD-LEGS ARE PERMITTED.
- 3 REPLACE EXISTING MOP SINK DRAIN AND PREPARE PIPING FOR NEW FIXTURE.
- 4 REMOVE EXISTING FLOOR SINK BACK TO THE MAINS, NO DEAD-LEGS ARE PERMITTED.
- 5 REMOVE CW AND HW PIPING TO DEMOLISHED WALL MOUNTED POT FILLER FAUCET, BACK TO THE MAINS, NO DEAD-LEGS ARE PERMITTED.



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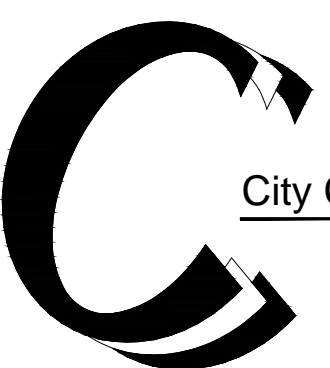
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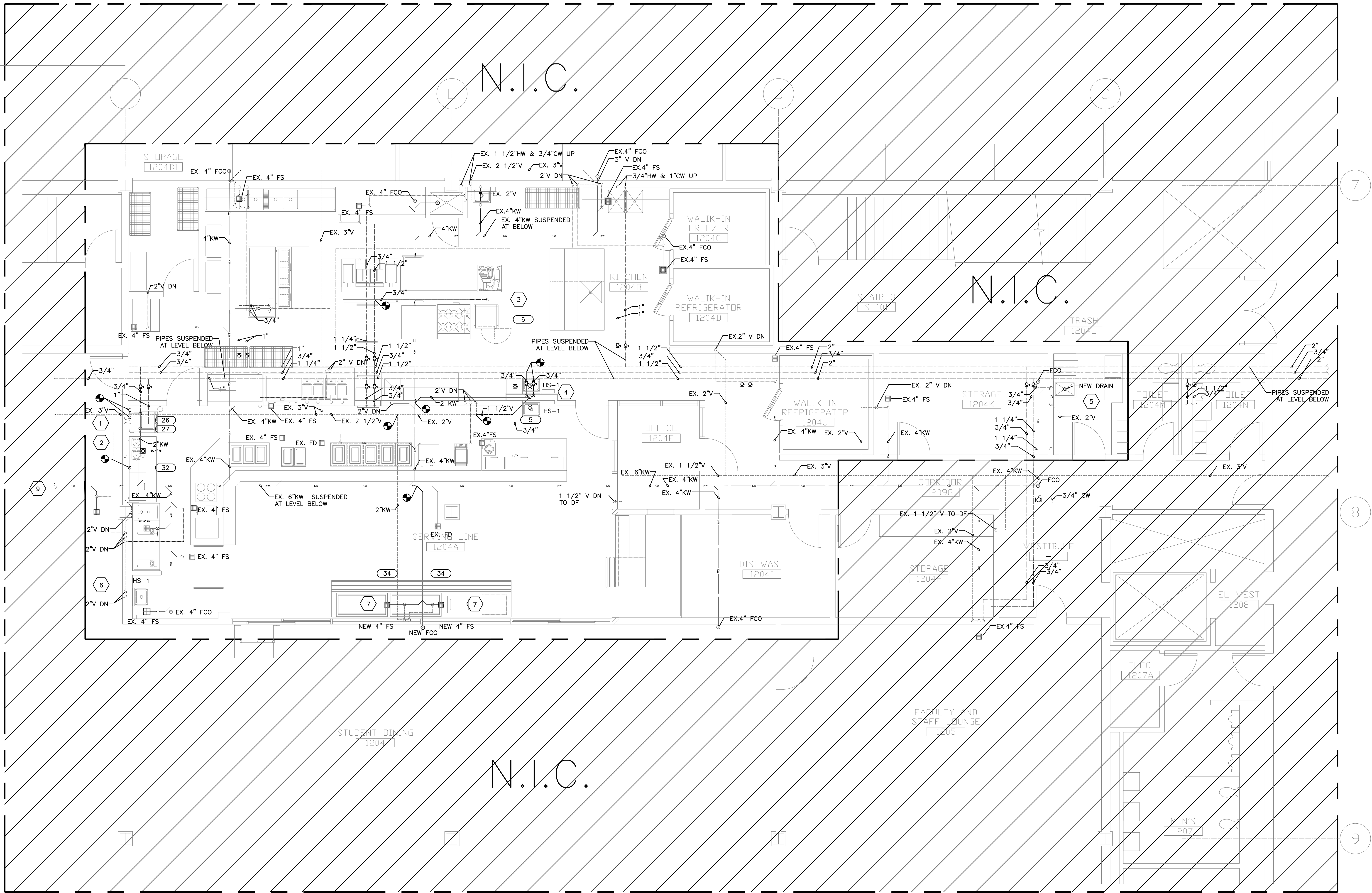
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**KITCHEN AND SERVERY
RENOVATIONS**

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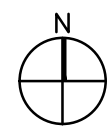
DEMO PLUMBING PLAN

PROJECT NO:	SHEET NO:
SCALE:	P1.0



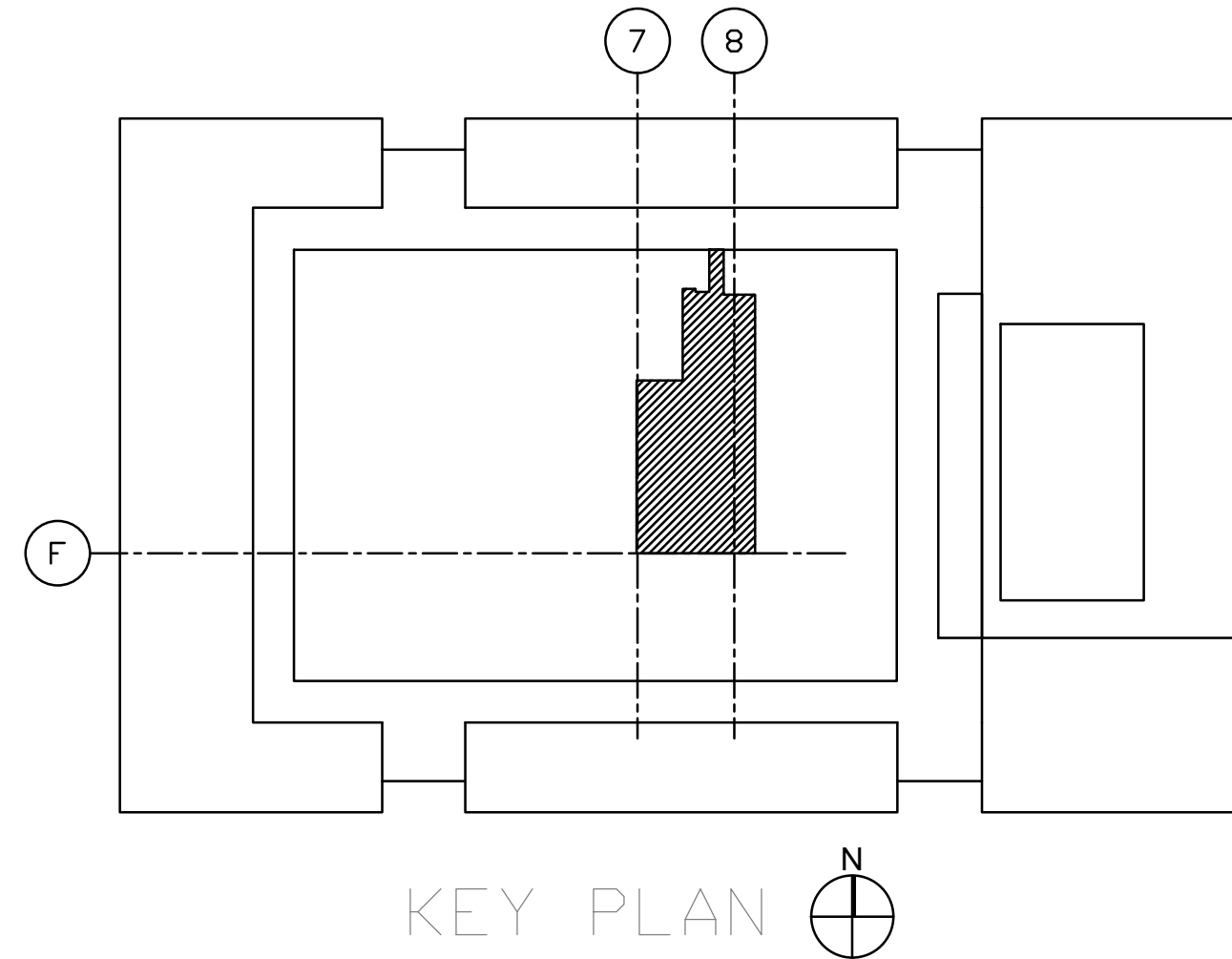
FOOD SERVICE EQUIPMENT			MECHANICAL SCHEDULE							
ITEM NUMBER	QUANTITY	ITEM DESCRIPTION	WATER CONNECTIONS				DRAINS			
			HOT WATER SIZE	COLD WATER SIZE	STUB UP HEIGHT	EQUIP. HEIGHT	H.W. CONSUMPTION GAL PER HOUR	IND. WASTE SIZE	DIRECT WASTE SIZE	WASTE HEIGHT
5	3	HAND SINKS	5"	5"	12"	40"			1.5"	
6	1	STEAMER	5"	5"	75"			FS		
26	1	WORK COUNTER W/ SINK	5"	5"	12"	40"				
32	1	BLENDER RINSER	5"	5"	50"	50"				
			REMARKS							
			USE EXISTING FS							

1 NEW WORK PLUMBING PLAN
SCALE: 1/4" = 1'-0"



PLUMBING NEW WORK KEYED NOTES:

- PROVIDE NEW WORK TABLE SINK WITH 1/2" CW, 1/2" HW, VALVE, RE-USE EXISTING FLOOR SINK, INSULATE WATER SUPPLY PIPING, TIE INTO EXISTING PLUMBING SYSTEM.
- PROVIDE 3/4" CW AND RE-USE EXISTING FLOOR SINK, INSULATE WATER SUPPLY PIPING, TIE INTO EXISTING PLUMBING SYSTEM.
- PROVIDE 3/4" CW AND RE-USE EXISTING FLOOR SINK, INSULATE WATER SUPPLY PIPING, TIE INTO EXISTING PLUMBING SYSTEM.
- PROVIDE NEW BACK TO BACK WALL MOUNTED HAND SINKS WITH 1/2" CW, 1/2" HW, VALVE, 1-1/2" W & 1-1/2" V, INSULATE WATER SUPPLY PIPING, TIE INTO EXISTING SUSPENDED PLUMBING MAINS BELOW.
- REPLACE EXISTING FLOOR SINK AND MOP SINK DRAIN, THEN PREPARE PIPING FOR NEW FIXTURES.
- PROVIDE NEW WALL MOUNTED HAND SINK WITH 1/2" CW, 1/2" HW, VALVE, 1-1/2" W & 1-1/2" V, INSULATE WATER SUPPLY PIPING, TIE INTO EXISTING PLUMBING SYSTEM.
- PROVIDE (2) NEW 4" FLOOR SINKS FOR SALAD BAR CONDENSATE DRAINS, CONNECT TO EXISTING PLUMBING SYSTEMS.
- PRIOR TO THE START OF CONSTRUCTION, ALL EXISTING PLUMBING SYSTEMS TO BE RE-USED SHALL BE SURVEYED BY THE CONTRACTOR FOR DEFECTS AND TESTED PER CITY OF CHICAGO COLLEGE STANDARDS AND CHICAGO BUILDING CODE #18-29-312, 18-29-606.6 AND 18-29-703.4.
- CONTRACTOR SHALL CLEAN THE EXISTING EXTERIOR GREASE TRAP AND SANITARY LINE OUT TO THE CITY'S SEWER MAIN.



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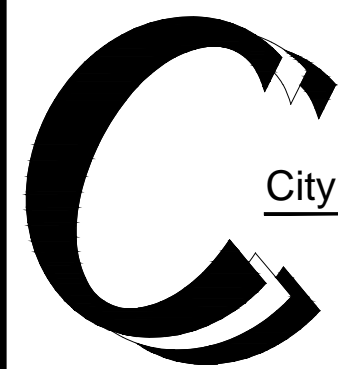
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KITCHEN AND SERVRY
RENOVATIONS

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SHEET TITLE

NEW WORK PLUMBING
PLAN

PROJECT NO.

SCALE

SHEET NO.

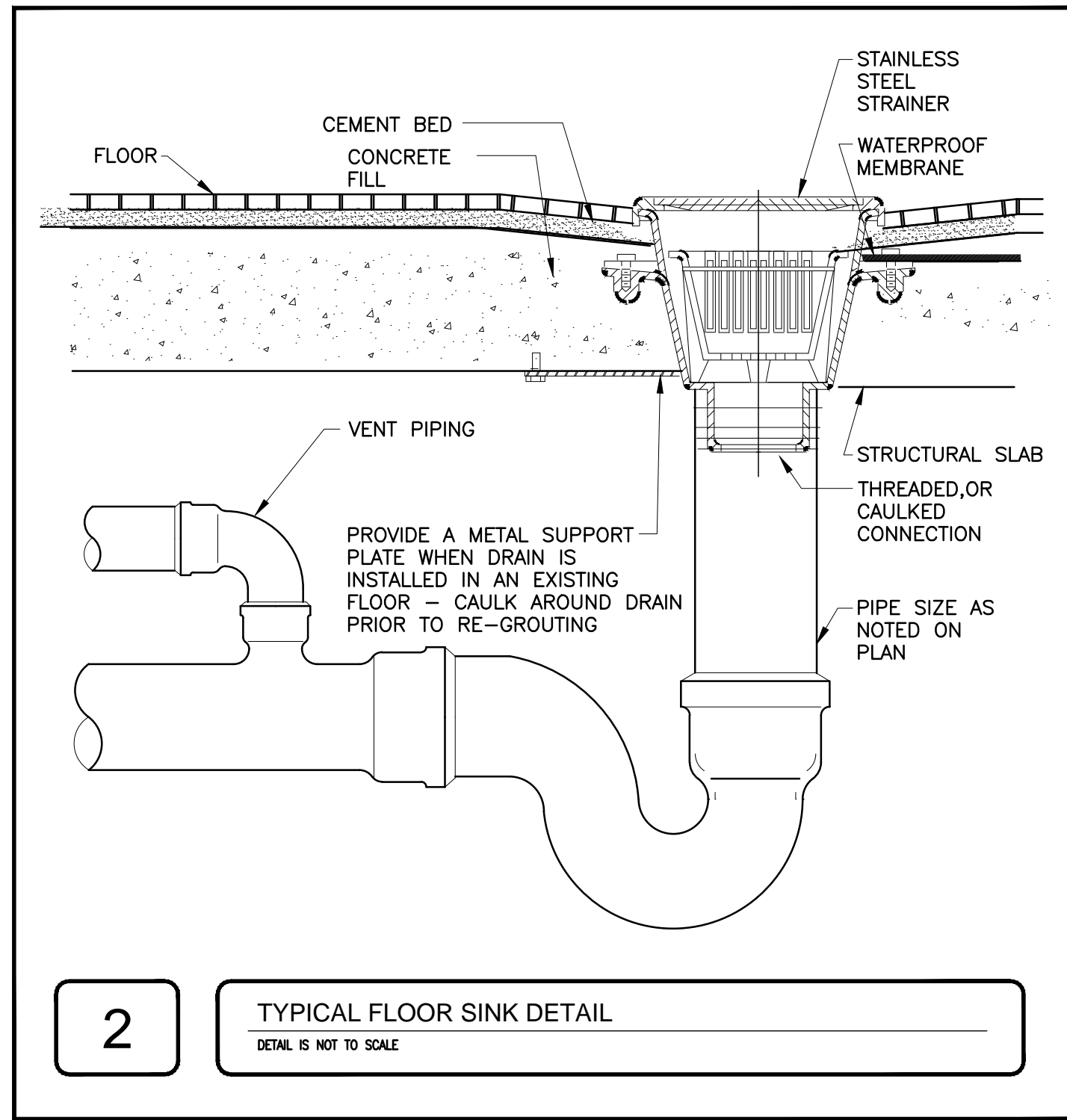
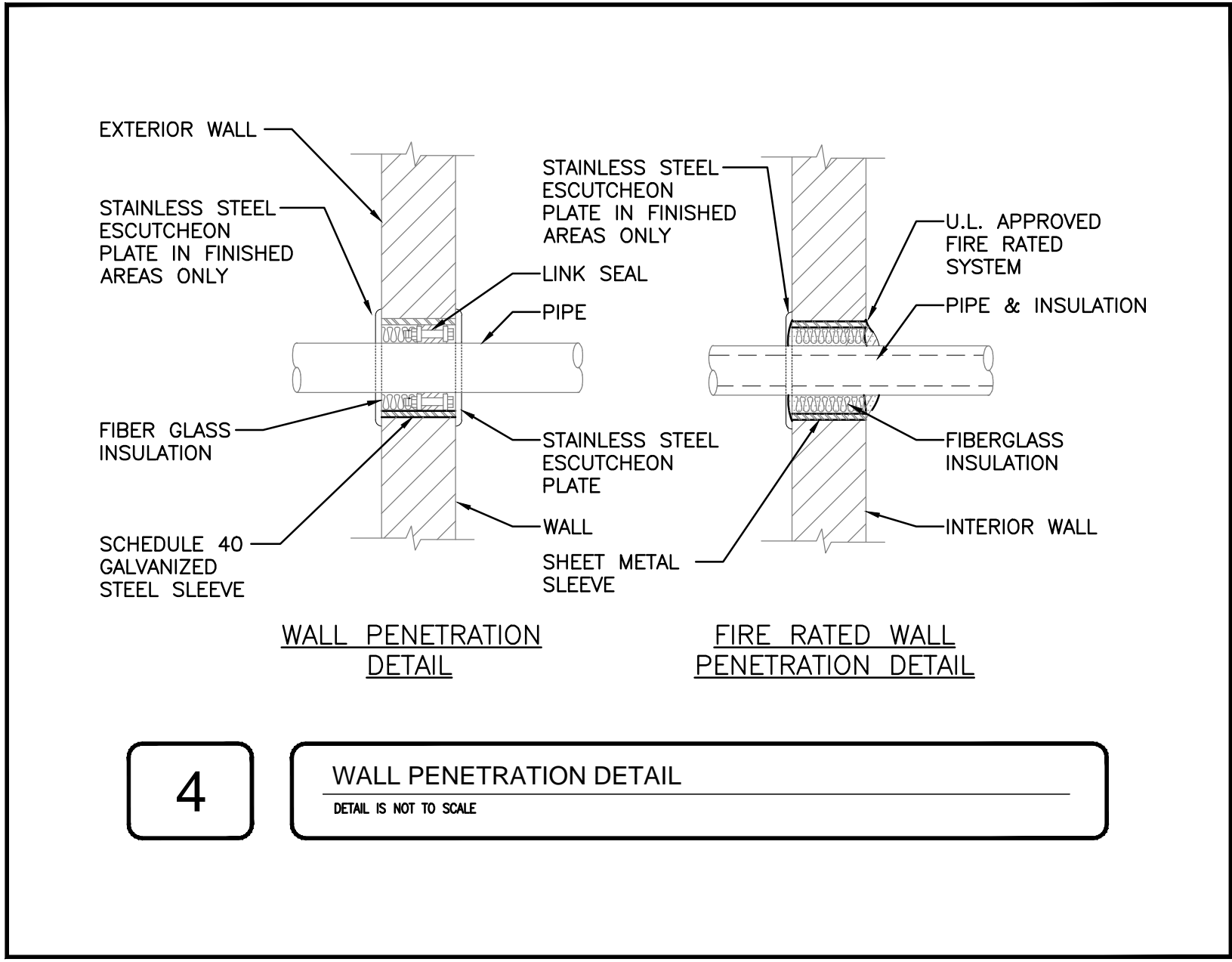
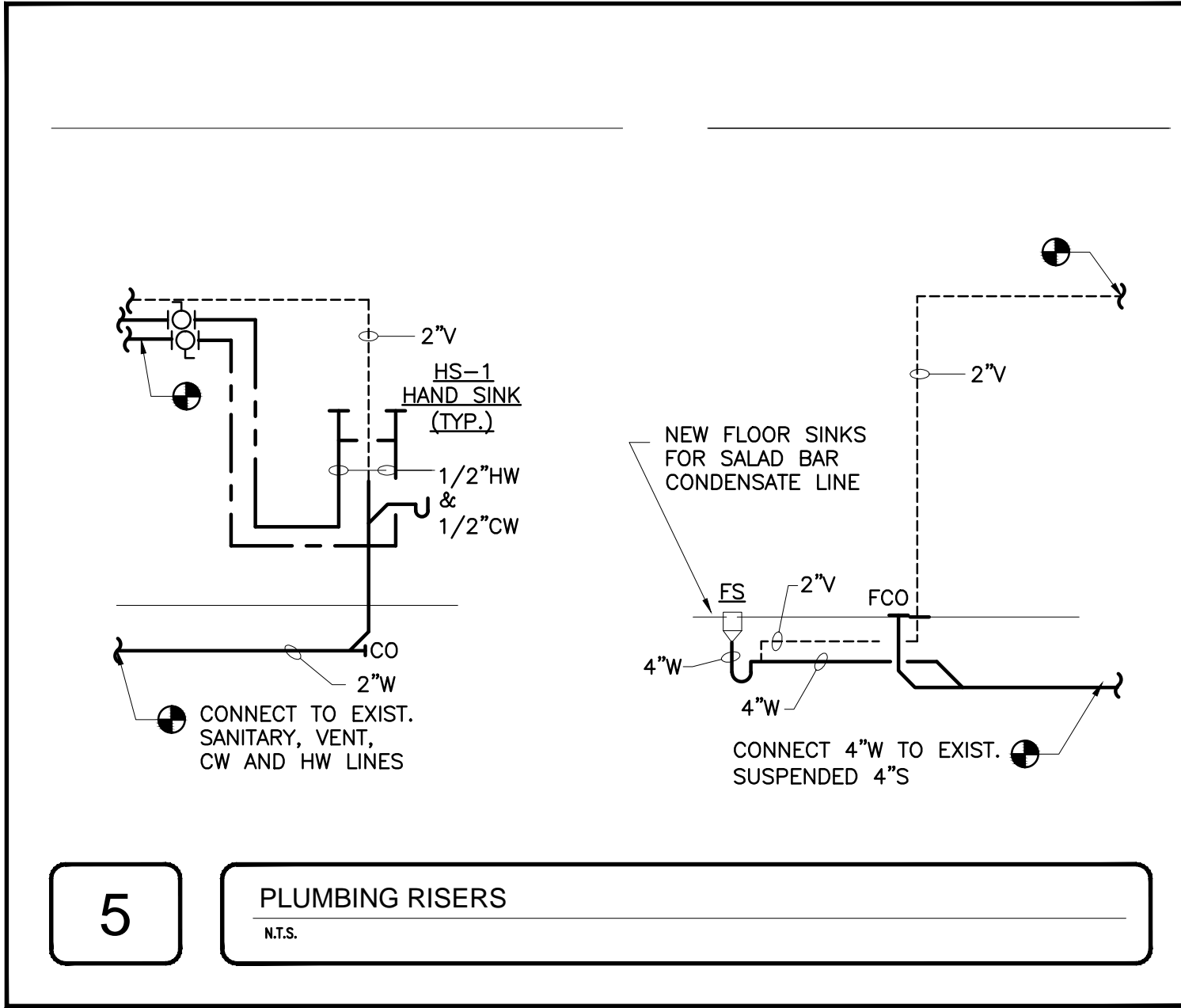
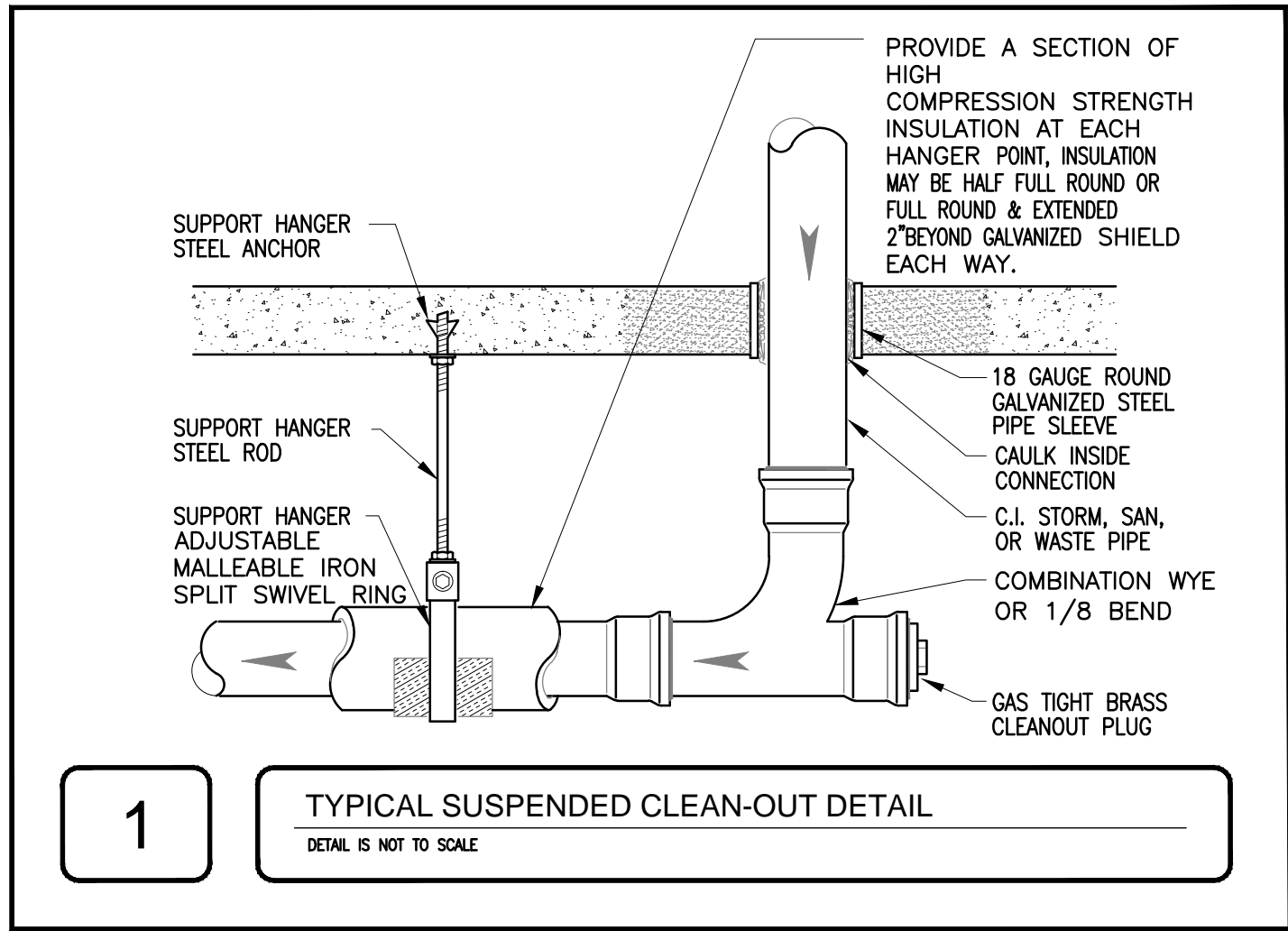
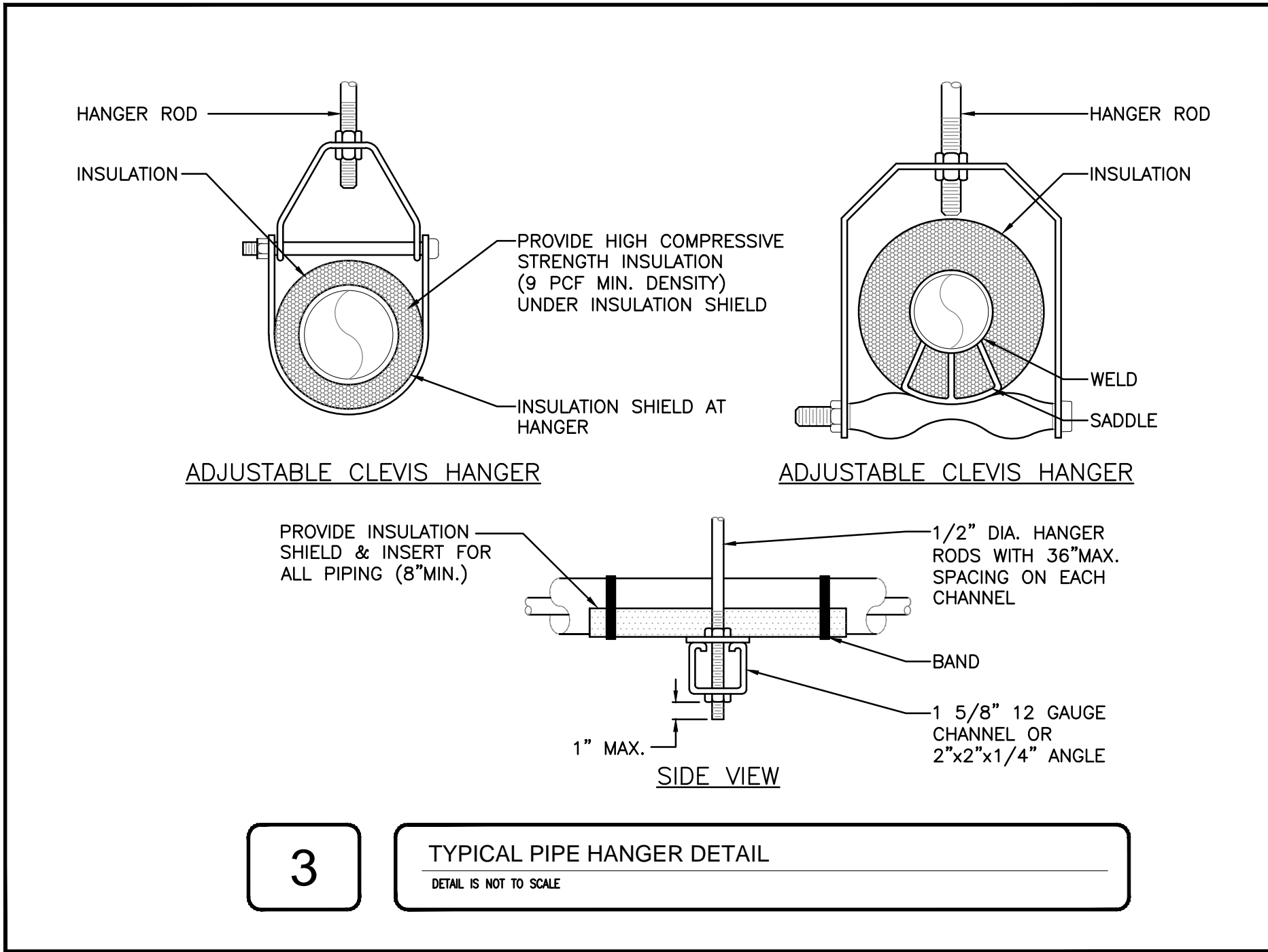
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PLUMBING PIPING MATERIALS SCHEDULE				
PIPING SYSTEM	PIPE	FITTINGS	JOINTS	INSULATION OR COATING
SANITARY WASTE AND VENT SUSPENDED	ASTM A74 SERVICE WEIGHT CAST IRON	ASTM A74 SERVICE WEIGHT CAST IRON	CALKING MATERIALS: ASTM B29 PURE LEAD AND OAKUM	PAINT EXPOSED PIPING PER OWNERS REQUIREMENTS
	TYPE "K OR L" COPPER TUBE; ASTM B16.22 WROUGHT COPPER	ASTM B16.22 WROUGHT COPPER	LEAD FREE SOLDER	
DOMESTIC WATER SUSPENDED 4" AND SMALLER	ASTM B88 TYPE L COPPER	ASTM B16.22 WROUGHT COPPER	LEAD FREE SOLDER	1/2" MINERAL FIBER INSULATION IN ALL AREAS EXPOSED AND CONCEALED. ALL SERVICE JACKET IN CONCEALED LOCATIONS, PRE-FORMED FITTINGS
DOMESTIC HOT WATER AND HOT WATER RETURN PIPING	SAME AS COLD WATER	SAME AS COLD WATER	SAME AS COLD WATER	1" MINERAL FIBER INSULATION IN ALL AREAS EXPOSED AND CONCEALED. ALL SERVICE JACKET IN CONCEALED LOCATIONS, PVC JACKET IN EXPOSED LOCATIONS, PRE-FORMED FITTINGS
1. THIS TABLE IDENTIFIES MINIMUM STANDARDS. OTHER CODE APPROVED MATERIALS MAY BE USED AT THE CONTRACTORS DISCRETION WHERE THE MATERIAL IS APPROVED BY THE CHICAGO PLUMBING CODE AND EQUAL OR BETTER THAN LISTED OR WHERE THE DRAWINGS SPECIFICALLY REQUIRE (I.E., TYPE L COPPER MAY BE USED FOR WASTE AND VENT.) 2. PROVIDE VALVE HANDLE EXTENSIONS FOR ALL VALVES IN INSULATED PIPING				

MINIMUM PLUMBING FIXTURE CONNECTIONS						
COUNT	TAG	FIXTURE	DOMESTIC WATER		SANITARY	
			CW (IN)	HW (IN)	DRAIN (IN)	VENT (IN)
1	HS	HAND SINK	1/2	1/2	1-1/2	1-1/2
4	LAV	LAVATORY	1/2	1/2	1-1/2	1-1/2
4	WC	WATER CLOSET	1/2	N/A	4	2
2	BT	BATH TUB	1/2	1/2	2	1-1/2
2	SH	SHOWERS	1/2	1/2	2	1-1/2
1	BS	BAR SINK	1/2	1/2	2	1-1/2
1	SM	STEAM GENERATOR	3/8		2	1-1/2

FLOOR SINK SCHEDULE							
TAG	FIXTURE	MANUFACTURER	APPLICATION	MATERIAL	DIMENSION	MODEL	(FOR MEMBRANE FLOORS PROVIDE)
FS	FLOOR SINK	JR SMITH	FINISHED FLOORS	CAST IRON NB COVER	8 1/2" SQUARE TOP	3100C	-
1. PROVIDE DOME STRAINER, ADJUSTABLE COLLAR, NICKEL BRONZE GRATE, ACID RESISTANT COATED FLOOR SINK.							

SINK (HS) SCHEDULE								
TAG	TYPE	GPM	MANUFACTURE	MODEL	TYPE	FAUCET MANUFACTURE	FAUCET MODEL	NOTES
HS-1	15 1/2"x16 3/4"	1.5	ELKAY	PROFESSIONAL SERIES CHST1716C	STAINLESS STEEL WALL MOUNT	ELKAY	COMMERCIAL FAUCET BK940CNO8T4H 8" GOOSENECK	1,2
NOTES: 1. PROVIDE COPPER WATER SUPPLY TUBING AND CHROME PLATED 17 GAUGE P-TRAP AND 1/2" ANGLE STOPS 2. SEE MFR. SPECIFICATION SHEET PRIOR TO INSTALL.								



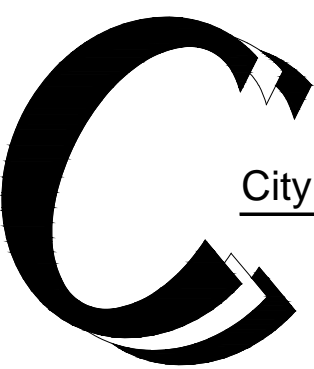
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SHEET TITLE

PLUMBING DETAILS,
RISERS AND SCHEDULES

PROJECT NO:

SCALE:

SHEET NO.

P5.0



EXHIBIT II

GOOD FOOD PURCHASING PROGRAM



PURCHASING
PROGRAM

TRANSFORMING THE WAY PUBLIC INSTITUTIONS PURCHASE FOOD

by creating a transparent and equitable food system built on five core values: local economies, health, a valued workforce, animal welfare, and environmental sustainability.



ENVIRONMENTAL SUSTAINABILITY

Support sustainable production practices that reduce or eliminate synthetic pesticides and fertilizers and avoid genetic engineering in agriculture; avoid the use of hormones and routine antibiotics in livestock production; conserve soil and water; protect and enhance wildlife habitats and biodiversity; and reduce on-farm energy and water consumption, food waste and greenhouse gas emissions.



NUTRITION

Promote health and well-being by offering generous portions of vegetables, fruit, whole grains and minimally processed foods, while reducing salt, added sugars, saturated fats, and red meat consumption, and eliminating artificial additives.



LOCAL ECONOMIES

Support robust regional economies by sourcing from locally-owned small and mid-sized agricultural and food processing operations.



VALUED WORKFORCE

Provide safe and healthy working conditions and fair compensation for all food-sector workers and producers from production to consumption.



ANIMAL WELFARE

Provide healthy and humane care for farm animals.

HOW IT WORKS



BASELINE STANDARD

Each of the five value categories has a baseline standard. To become a Good Food Provider, an institution must meet at least the baseline in each of the five values.

CERTIFICATION-BASED

Standards are based on third party certifications that have been identified as meaningful and ranked by national experts in each category.

FLEXIBLE, TIERED POINT SYSTEM

More points are awarded for achievement at higher levels in each category, allowing institutions to raise their score by emphasizing their high priority categories.



As of November 2017, the Good Food Purchasing Program has been adopted by the Los Angeles Unified School District, City of Los Angeles, San Francisco Unified School District, Oakland Unified School District, Chicago Public Schools, Chicago Park District, and the City of Chicago. Local campaigns to support the Program expansion are currently active in: Austin, Cincinnati, Madison, Minneapolis/St. Paul, New York City and Washington D.C. There is mounting interest in at least a dozen more cities across the country.

These cities are on their way to shifting over \$500 million in public food dollars to vendors that reflect the Good Food Purchasing values.

IMPACT HIGHLIGHTS FROM LOS ANGELES UNIFIED SCHOOL DISTRICT:



ENVIRONMENTALLY SUSTAINABLE PRODUCTS

- **45 million annual servings** of bread and rolls are now made from wheat grown sustainably in Central California, milled in downtown Los Angeles, with prices staying the same over the last three years

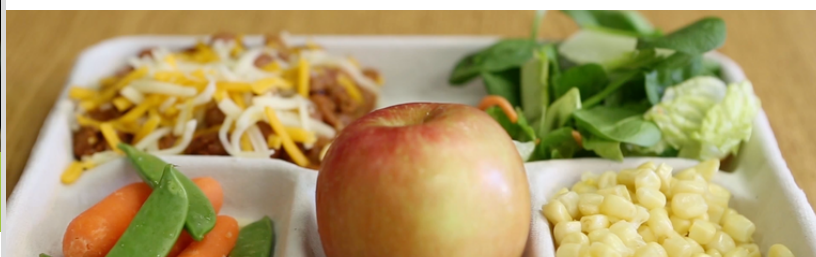


GOOD JOB CREATION

- **150 new well-paying food chain jobs** created in Los Angeles County, including food processing, manufacturing and distribution
- **160 delivery truck drivers** in LAUSD's supply chain received higher wages and improved working conditions

LOCAL PRODUCE

- **\$12 million** re-directed to local produce



HEALTH & NUTRITION

- **lower-sodium bread products** made without high fructose corn syrup



LESS MEAT, BETTER MEAT

- **15% decrease in meat purchased** and an estimated 19.6 million gallons of water saved each week due to implementing Meatless Mondays
- **\$20 million, five-year contract** awarded for chicken produced free of routinely administered antibiotics.

TDL café equipment

Ice Cube Machine	Manitowoc SM-50
Solid Door Freezer	True TUC-27F
Solid Door Refridgerator	True TUC-27
Glass Door Refridgerator	True TUC-48G
Refrigerated Self Service Case	Harmony HMBC5
Soda Machine	6 Valve Ice Beverage Dispenser

Operator equipment	To Be Determined
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EXHIBIT III

SAMPLE ACADEMIC CALENDAR

Academic Calendar 2017-2018 (Credit Programs)

SUMMER 2017 TERM	Regular session		
Priority registration (continuing students) ^{4,6}	Apr 3, 2017 (Mon) – Apr 4, 2017 (Tue)		
Open registration (all students) ^{3,4}	Apr 5, 2017 (Wed) – Jun 7, 2017 (Wed)		
First day of class	Jun 7, 2017 (Wed)		
Independence Day Holiday	Jul 4, 2017 (Tue)		
Mid-term	Jul 5, 2017 (Wed)		
Last day for student initiated withdrawal	Jul 19, 2017 (Wed)		
Last day of Summer classes	Jul 29, 2017 (Sat)		
Summer 2017 term ends	Jul 29, 2017 (Sat)		
FALL 2017 TERM	Regular 16 week session	12 week session ²	8 week session ²
Priority registration (continuing students) ^{4,6}	Apr 3, 2017 (Mon) – Apr 4, 2017 (Tue)		
Open registration (all students) ^{3,4}	Apr 5, 2017 (Wed)– Aug 25, 2017 (Fri)	Apr 5, 2017 (Wed) – Sep 18, 2017 (Mon)	Apr 5, 2017 (Wed) – Oct 16, 2017 (Mon)
First day of class	Aug 28, 2017 (Mon)	Sept 25, 2017 (Mon)	Oct 23, 2017 (Mon)
Labor Day Holiday	Sept 4, 2017 (Mon)		
Mid-term	Oct 25, 2017 (Wed)	Nov 5, 2017 (Sun)	Nov 19, 2017 (Sun)
Last day for student initiated withdrawal	Nov 20, 2017 (Mon)	Nov 25, 2017 (Sat)	Dec 2, 2017 (Sat)
Thanksgiving Holiday (Thursday & Friday)	Nov 23 – 24, 2017 (Thu-Fri)		
Last day of Fall classes	Dec 16, 2017 (Sat)		
Fall 2017 term ends	Dec 16, 2017 (Sat)		
SPRING 2018 TERM	Regular 16 week session	12 week session ²	8 week session ²
Priority registration (continuing students) ^{4,6}	Nov 6, 2017 (Mon) – Nov 7, 2017 (Tue)		
Open registration (all students) ^{3,4}	Nov 8, 2017 (Wed)– Jan 12, 2018 (Fri)	Nov 8, 2017 (Wed) – Feb 5, 2018 (Mon)	Nov 8, 2017 (Wed) – Mar 5, 2018 (Mon)
Martin Luther King Holiday	Jan 15, 2018 (Mon)		
First day of class	Jan 16, 2018 (Tue)	Feb 12, 2018 (Mon)	Mar 12, 2018 (Mon)
President's Day Holiday	Feb 19, 2018 (Mon)		
Complete financial aid application for next academic year ⁵	NO LATER THAN Feb 23, 2018 (Fri)		
Mid-term	Mar 14, 2018 (Wed)	Mar 28, 2018 (Wed)	Apr 11, 2018 (Wed)
Spring Break	Mar 26, 2018 – Apr 1, 2018 (Mon-Sun)		
Last day for student initiated withdrawal	Apr 16, 2018 (Mon)	Apr 19, 2018 (Thu)	Apr 26, 2018 (Thu)
Last day of Spring classes	May 12, 2018 (Sat)		
Spring 2018 term ends	May 12, 2018 (Sat)		