MultiCare Good Samaritan Hospital Kitchen

07.25.2025
PW PROJECT #162433.000

401 15th Ave SE,
Puyallup,
WA 98372

PHASE 2 CONSTRUCTION DOCUMENTS

FACILITY	OWNER	ARCHITECT	FOOD SERVICE	STRUCTURAL	CIVIL	CONTRACTOR	PLUMBING	MECHANICAL	ELECTRICAL	PROJECT MNGR	Municipality Puyallup
MultiCare Good Samaritan Hospital 401 15th Ave SE, Puyallup, WA 98372 (253) 697-4000 (TEL)	MultiCare Health System 315 Martin Luther King, Jr. Way, Tacoma, WA 98405 (253) 403-1000 (TEL)	Perkins & Will 1301 5th Ave #2300, Seattle, WA 98101 (206) 381-6000 (TEL)	Inman Food Service Group 3807 Charlotte Avenue, Nashville, Tennessee 37209 615-321-5591 (TEL)	PCS 1011 Western Avenue, Suite 810 Seattle WA 98104 206.292.5076 (TEL)	AHBL 1200 6th Ave #1620, Seattle, WA 98101 (206) 267-2425 (TEL)	Abbott Construction 3408 1st Ave S, Seattle, WA 98134 (206) 467-8500 (TEL)	MacDonald Miller 1004 Madison St, Seattle, WA 98104 (206) 763-9400	MacDonald Miller 1004 Madison St, Seattle, WA 98104 (206) 763-9400 (TEL)	EBD SERVICES 14900 Interurban Ave S. #143 Seattle, WA 98168 (206) 413-6095 (TEL)	TURNER & TOWNSEND 920 Fifth Avenue, Seattle, WA, 98104 206 470 9001 (TEL)	Puyallup Puyallup City Hall 333 S. Meridian Puyallup, WA 98371 253-841-4321 (TEL)

Project Specifications, - not included in submittal
If project specifications are the same from one phase to the next please add this reference to the cover sheet with a publication date or other version details.
Also indicate which phase this is submitted as part of the record (reference permit number)

SHEET INDEX - PHASE 2

SHEET NUMBER	SHEET NAME	PHASE 2 PERMIT | 07.11.2025
01-GENERAL		
G00-00	COVER	•
G01-01	CODE COMPLIANCE EGRESS PLAN - PHASE 2	•
G05-01	FIRE RESISTANCE DETAILS AND DIAGRAMS	•
G06-01	PHASING DIAGRAMS	•
04-ARCHITECTURAL		
A00-01	GENERAL INFORMATION	•
A01-01	OVERALL EXISTING FLOOR PLAN LEVEL 01	•
A04-01	DEMOLITION PLAN LEVEL 01 - PHASE 2	•
A05-01	DEMOLITION REFLECTED CEILING PLAN LEVEL 01 - PHASE 2	•
A10-01	OVERALL FLOOR PLAN LEVEL 01	
A11-01	PARTIAL FLOOR PLAN LEVEL 01 - PHASE 2	•
A12-01	REFLECTED CEILING PLAN LEVEL 01 - PHASE 2	•
A13-01	FINISH PLAN LEVEL 01 - PHASE 2	•
A51-10	TYPICAL SUSPENDED CEILING DETAILS	
A61-01	PARTITION TYPE CHARTS & DETAILS	•
A62-01	DOOR SCHEDULE	•
A64-01	FINISH SCHEDULE AND LEGEND	•
05-STRUCTURAL		
S01-01	GENERAL NOTES	•
S01-02	GENERAL NOTES	•
S01-03	GENERAL NOTES	•
S01-04	GENERAL NOTES	•
S11-01.2	FRAMING PLAN - LEVEL 01 - PHASE 2	•
S11-02.2	FRAMING PLAN - LEVEL 02 - PHASE 2	•
S21-00	CONCRETE DETAILS	•
S21-02	STEEL DETAILS	•
S21-10	COLD FORMED STEEL FRAMING DETAILS	•
S21-11	COLD FORMED STEEL FRAMING DETAILS	•
S21-12	NON-BEARING COLD FORMED STEEL DETAILS	•
06-FOOD SERVICE		
FS01-000	OVERALL COMPLETE	•
FS01-0	PHASE 2 OVERALL	•
FS01-C.1	PHASE 2 (AREA - C) EQUIPMENT PLAN AND SCHEDULE	•
FS01-C.2	PHASE 2 (AREA - C) PLUMBING PLAN AND SCHEDULE	•
FS01-C.3	PHASE 2 (AREA - C) ELECTRICAL PLAN AND SCHEDULE	•
FS01-C.4	PHASE 2 (AREA - C) SPECIAL CONDITIONS PLAN AND VENTILATION SCHEDULE	•
FS01-C.9	PHASE 2 (AREA - C) ELEVATON AND ISOMETRIC VIEWS	•
FS01-C.10	PHASE 2 (AREA - C) ELEVATION AND ISOMETRIC VIEWS	•
FS01-C.11	PHASE 2 (AREA - C) ELEVATION AND ISOMETRIC VIEWS	•
FS01-C.12	PHASE 2 (AREA - C) HOOD DETAILS 4 OF 6 HALTON DOCUMENTS	•
FS01-C.13	PHASE 2 (AREA - C) DEMAND CONTROL DETAILS 6 OF 6 HALTON DOCUMENTS	•
FS01-D.1	PHASE 2 (AREA - D) EQUIPMENT PLAN AND SCHEDULE	•
FS01-D.2	PHASE 2 (AREA - D) PLUMBING PLAN AND SCHEDULE	•
FS01-D.3	PHASE 2 (AREA - D) ELECTRICAL PLAN AND SCHEDULE	•
FS01-D.5	PHASE 2 (AREA - D) SPECIAL CONDITIONS PLAN AND VENTILATION SCHEDULE	•
FS01-D.9	PHASE 2 (AREA - D) ELEVATION AND ISOMETRIC VIEWS	•
FS01-D.10	PHASE 2 (AREA - D) ELEVATION AND ISOMETRIC VIEWS	•
FS01-D.11	PHASE 2 (AREA - D) ELEVATION ISOMETRIC VIEWS	•
FS01-D.12	PHASE 2 (AREA - D) HOOD DETAILS 5 OF 6 HALTON DOCUMENTS	•

SHEET INDEX - PHASE 2

SHEET NUMBER	SHEET NAME	PHASE 2 PERMIT | 07.11.2025
07-MECHANICAL		
TM0.01	SCHEDULES - MECHANICAL	•
TM0.02	SCHEDULES - MECHANICAL	•
DM2.01	LEVEL 01 OVERALL DEMOLITION FLOOR PLAN - MECHANICAL	•
DM2.01C	LEVEL 01 DEMOLITION FLOOR PLAN - PHASE 2 AREA C - MECHANICAL	•
TM2.01	LEVEL 01 OVERALL FLOOR PLAN - MECHANICAL	•
TM2.01C	LEVEL 01 FLOOR PLAN - PHASE 2 AREA C - MECHANICAL	•
TM2.05	LEVEL 05 FLOOR PLAN - PHASE 2 - MECHANICAL	•
TM4.02	AIRFLOW DIAGRAMS - PHASE 2 - MECHANICAL	•
TM6.01	DETAILS - MECHANICAL	•
08-ELECTRICAL		
E00-01	SPECIFICATIONS	•
E20-10	PHASE 2 - OVERALL DEMOLITION FLOOR PLAN - LEVEL 01	•
E20-11	PHASE 2 - LIGHTING DEMOLITION PLAN - LEVEL 01	•
E20-12	PHASE 2 - POWER DEMOLITION PLAN - LEVEL 01	•
E21-10	PHASE 2 - OVERALL FLOOR PLAN - LEVEL 01	•
E21-11	PHASE 2 - LIGHTING RCP - LEVEL 01	•
E21-12	PHASE 2 - POWER PLAN - LEVEL 01	•
E50-00	ONE-LINE DIAGRAM - EXISTING 12.47kV	•
E50-03-2	PHASE 2 -ONE-LINE DIAGRAM - D & T WING	•
E50-04-2	PHASE 2 -ONE-LINE DIAGRAM - NORTH CENTRAL & SOUTH WINGS	•
E80-02	PHASE 2 - EQUIPMENT COORDINATION SCHEDULES	•
E80-04	PHASE 2 -PANEL SCHEDULES - PHASE 2	•
09-PLUMBING		
TP0.01	SCHEDULES - PLUMBING	•
TP0.03	SCHEDULES - PLUMBING	•
DP2.00	LEVEL 01 DEMOLITION UNDERGROUND OVERALL PLAN - PLUMBING	•
DP2.00C	LEVEL 01 DEMOLITION UNDERGROUND PLAN - PLUMBING - AREA C	•
DP2.00D	LEVEL 01 DEMOLITION UNDERGROUND PLAN - PLUMBING - AREA D	•
DP2.01	LEVEL 01 DEMOLITION OVRALL FLOOR PLAN - PLUMBING	•
DP2.01C	LEVEL 01 DEMOLITION FLOOR PLAN - PHASE 2 AREA C - PLUMBING	•
DP2.01D	LEVEL 01 DEMOLITION FLOOR PLAN - PHASE 2 AREA D - PLUMBING	•
TP2.00	LEVEL 01 OVERALL UNDERGROUND PLAN - PLUMBING	•
TP2.00C	LEVEL 01 UNDERGROUND PLAN - PHASE 2 AREA C - PLUMBING	•
TP2.00D	LEVEL 01 UNDERGROUND PLAN - PHASE 2 AREA D - PLUMBING	•
TP2.01	LEVEL 01 OVERALL FLOOR PLAN - PLUMBING	•
TP2.01C	LEVEL 01 FLOOR PLAN - PHASE 2 AREA C - PLUMBING	•
TP2.01D	LEVEL 01 FLOOR PLAN - PHASE 2 AREA D - PLUMBING	•
TP4.01B	DOMESTIC WATER RISER	•
TP4.02B	WASTE-VENT-GREASE RISER	•
TP6.01	PLUMBING DETAILS	•

OVERALL MAP

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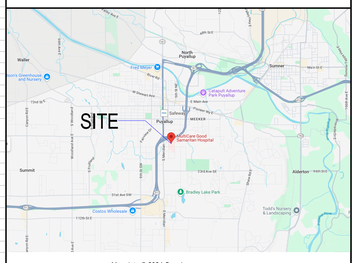
VICINITY MAP



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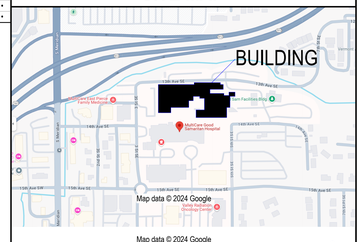
SITE MAP



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PROJECT INFORMATION

PROJECT DESCRIPTION

THIS TENANT IMPROVEMENT ON LEVEL 1 OF THE GOOD SAMARITAN HOSPITAL CAMPUS WILL EXPAND THE EXISTING NUTRITION DEPARTMENT IN ORDER TO SUPPORT THE FUTURE PATIENT CARE TOWER EXPANSION (WA DOH CERTIFICATE OF NEED 1980). PROJECT WILL BE REVIEWED BY WA DOH UNDER CRS# 61682265. THIS PROJECT WILL BE CONSTRUCTED IN MULTIPLE PHASES IN ORDER TO MAINTAIN FOOD SERVICE AND DINING OPERATIONS ACROSS THE HOSPITAL.

PHASING SCOPE AND PURPOSE

PHASE 0 CONSISTS OF CONSTRUCTING A TEMPORARY DRY GOODS STORAGE AREA IN A PORTION OF THE EXISTING CAFETERIA SPACE. THE EXISTING CAFE IS CURRENTLY AN ACCESSORY SPACE TO THE EXISTING B OCCUPANCY CLASSIFICATION WHICH IS SEPARATED FROM THE ADJOINING I-2 CONDITION 2 HOSPITAL BY A 2-HOUR FIRE BARRIER. THE TEMPORARY STORAGE SPACE WOULD BE CONSIDERED AN S-2 OCCUPANCY CLASSIFICATION AND ALSO AN ACCESSORY SPACE TO THE MAIN B OCCUPANCY. ADDITIONAL WORK IN PHASE 0 IS LIMITED TO MINOR CONSTRUCTION TO THE EXISTING LINEN ROOM, CONDENSATE RECEIVER TANK AND SMALL STORAGE ROOM.

THE SCOPE OF WORK IN **PHASE 1** CREATES:
- NEW DRY STORAGE SPACE
- WALK-IN COOLERS
- WALK-IN FREEZERS
- WAREWASH SPACE
- FOOD PRODUCTION AND TEMPORARY TRAY MAKEUP AREAS
- ENVIRONMENTAL SERVICES DEPARTMENT STAFF BREAK ROOM AND OFFICES
- NUTRITION DEPARTMENT OFFICES
- REVISED PALLIATIVE CARE AND SECURITY OFFICES ON LEVEL 2 (DUE TO NEW DUCTWORK)

THE SCOPE OF WORK IN **PHASE 2** CREATES:
- PERMANENT TRAY MAKE UP AREAS
- FOUR COOKING PODS
- TWO KITCHEN SUPERVISOR OFFICES

THROUGHOUT ALL PHASES, SCOPE ALSO INCLUDES NEW INFRASTRUCTURE NEEDED TO SUPPORT THIS ADDED CAPACITY.

ACCESS PATHS FOR HOSPITAL STAFF WILL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION. REFER TO PROJECT DESCRIPTION ON G00-00 FOR ADDITIONAL INFORMATION ON PHASES.

APPLICABLE CODES

PIERCE COUNTY:

CITY OF PUYALLUP:
2021 INTERNATIONAL BUILDING CODE (IBC)
2021 INTERNATIONAL MECHANICAL CODE (IMC)
2021 FUEL GAS CODE
2021 UNIFORM PLUMBING CODE (UPC) WITH WA. STATE AMENDMENTS
2021 INTERNATIONAL FIRE CODE (IFC)
2021 WASHINGTON STATE ENERGY CODES
2023 NFPA 70 NATIONAL ELECTRICAL CODE
2017 A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
STATE OF WASHINGTON:
2022 FGI GUIDELINES FOR DESIGN AND CONSTRUCTION - HOSPITALS
FEDERAL:
2012 NFPA 101 - LIFE SAFETY CODE

OCCUPANCY CLASSIFICATION
B OCCUPANCY - BUSINESS
I-2 CONDITION 2 OCCUPANCY - INSTITUTIONAL

CONSTRUCTION TYPE
TYPE I-A

FIRE RESISTANCE RATINGS (IN HOURS)

PRIMARY STRUCTURAL FRAME	3
BEARING WALLS (EXTERIOR)	3
BEARING WALLS (INTERIOR)	3
NONBEARING WALLS (EXTERIOR)	0
FLOOR CONSTRUCTION	2
ROOF CONSTRUCTION	1.5

PARCEL NUMBER: 9810000016

WA DEPT. OF HEALTH CRS NUMBER: 61682265

CITY OF PUYALLUP PERMIT NUMBERS: Phase 0 PRCTI20250558
Phase 1 PRCTI20250548

SPECIAL INSPECTIONS
THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT:
- FIRE-RESISTANT PENETRATIONS & JOINT MATERIALS
- NON-STRUCTURAL STEEL CONSTRUCTION

DEFERRED SUBMITTALS
THE FOLLOWING SCOPES WILL BE SUBMITTED FOR AHJ REVIEW AS DEFERRED SUBMITTALS:
- FIRE ALARM SYSTEMS (OVERALL AND PER PHASE)
- FIRE SPRINKLER SYSTEM (OVERALL AND PER PHASE)
- KITCHEN HOOD SUPPRESSION SYSTEMS

City of Puyallup
Planning Division
APPROVED
See permit conditions.
CBeale
08/28/2025
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Perkins&Will
1301 5th Ave
#2300, Seattle,
WA 98101
t +12063816000
www.perkinswill.com

6712 REGISTERED ARCHITECT
BRAD HINTHORNE
STATE OF WASHINGTON

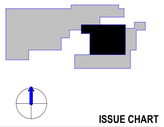
PHASE 2 CONSTRUCTION DOCUMENTS 07.25.2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE
Job Number	162433.000	

TITLE

COVER

SHEET NUMBER

G00-00

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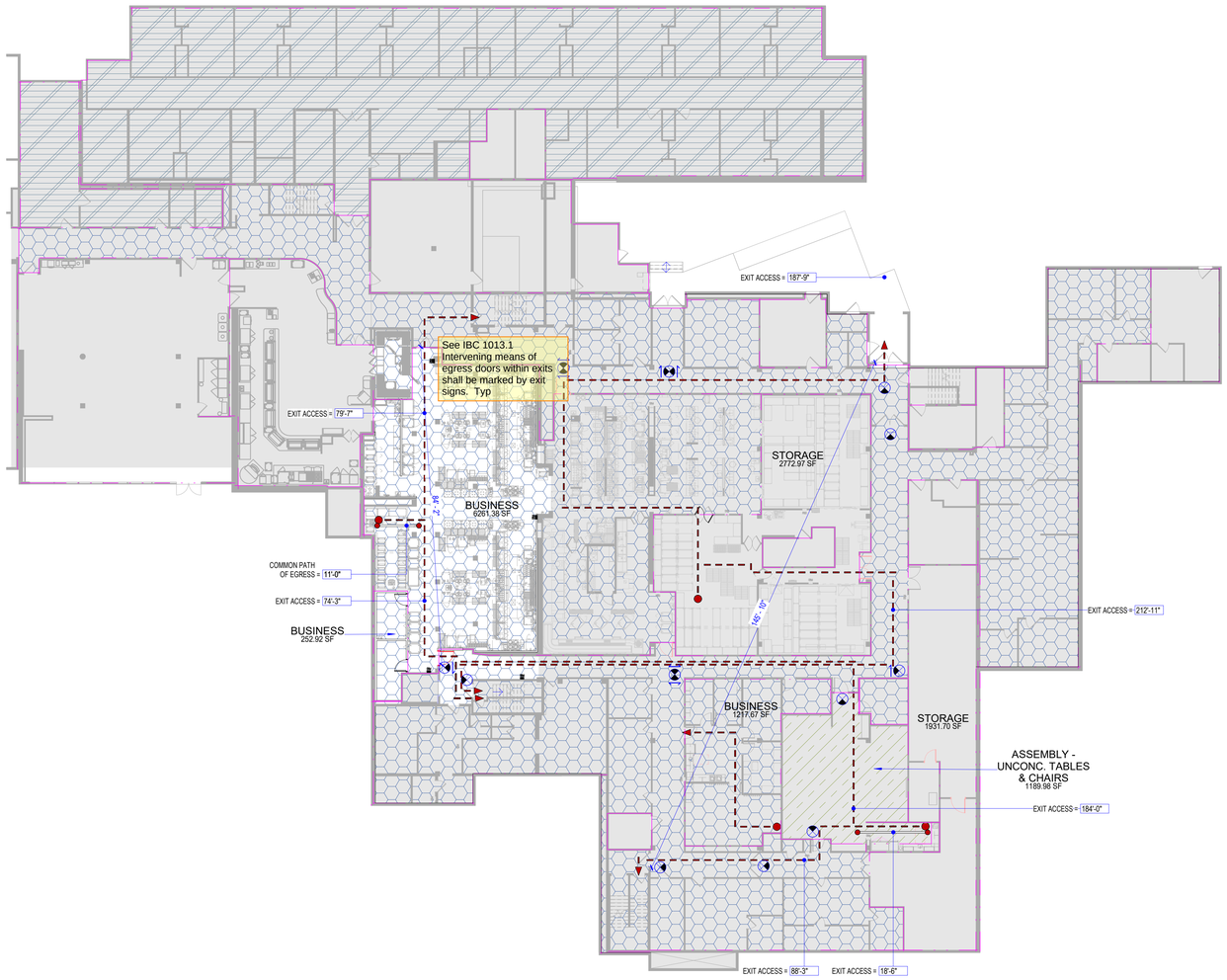
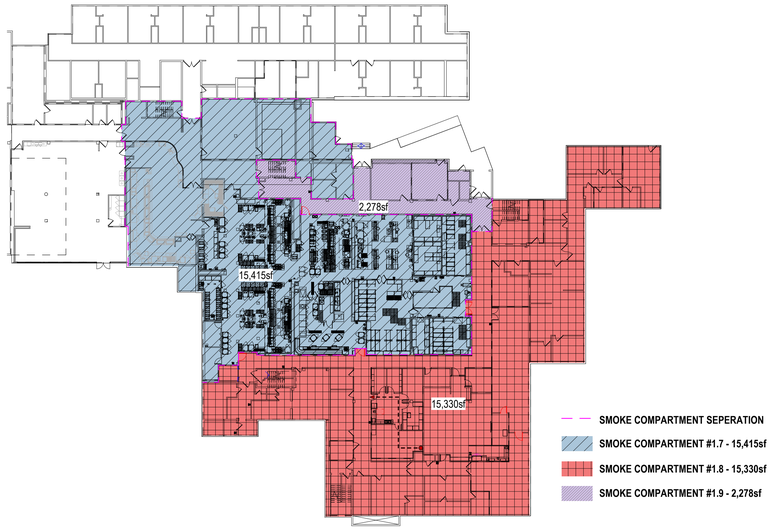


1 LEVEL 01 - OCCUPANCY DIAGRAM - PHASE 2
SCALE 1/16" = 1'-0"



2 LEVEL 01 SMOKE COMPARTMENT DIAGRAM
SCALE 1" = 30'-0"

Function of Space Legend

- ASSEMBLY - UNCONC. TABLES & CHAIRS
- BUSINESS
- ELECTRICAL
- INPATIENT
- STORAGE

PRIMARY USE CLASSIFICATION BY LEVEL

USE CLASSIFICATION	AREA	% OF LEVEL
LEVEL 01		
A-2	1,190 SF	3%
B	21,229 SF	48%
I-2-1	9,770 SF	22%
S-1	7,918 SF	18%
S-2	4,047 SF	9%
LEVEL 01: 20	44,155 SF	

OCCUPANT LOAD CALCULATIONS

NAME	AREA (SF)	OCC LOAD FACTOR	OCC LOAD
ASSEMBLY - UNCONC. TABLES & CHAIRS	1,190	15.00 SF	80
BUSINESS	21,065	150.00 SF	54
ELECTRICAL	164	300.00 SF	1
INPATIENT	9,770	240.00 SF	42
STORAGE	11,965	300.00 SF	48
Grand total	44,155		225

NOTES:
1. S-1 OCCUPANCIES ARE EXISTING HAZARDOUS STORAGE AREAS WITH 1-HOUR FIRE BARRIERS - THESE AREAS ARE NOT IN THE SCOPE OF THIS PROJECT.

2. I-2 OCCUPANCY IS OUT OF SCOPE OF THIS PROJECT – SQUARE FOOTAGE AND OCCUPANT LOADS ARE BASED UPON EXISTING LIFE SAFETY DOCUMENTS FROM PREVIOUS PROJECTS.

3. COMBINED A-2 OCCUPANCIES ARE ACCESSORY USE OCCUPANCIES TO THE MAIN B OCCUPANCY.

CODE COMPLIANCE PLAN GENERAL NOTES

1. ALL WORK IS TO BE DONE IN ACCORDANCE WITH APPLICABLE CODES.
2. FINAL LOCATIONS OF ALL LIFE SAFETY DEVICES AND FIXTURES ARE SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

EGRESS COMPONENTS

- NOT IN CONTRACT

EGRESS COMPONENTS - PATH OF TRAVEL

- EXIT ACCESS = 999'-11"
- EXIT SEPARATION = 999'-11"
- LONGEST DIAGONAL = **999'-11"** REQUIRED SEPARATION = X'-X"
- COMMON PATH OF EGRESS = 999'-11"
- ACCESSIBLE ROUTE

- FEC FIRE EXTINGUISHER & CABINET (HALFTONE IF EXISTING)
- FE FIRE EXTINGUISHER (HALFTONE IF EXISTING)
- FEC FIRE EXTINGUISHER & CABINET SURFACE MOUNTED (HALFTONE IF EXISTING)
- EXIT SIGN

- CR CARD READER
- PB PUSH BUTTON
- ML ELECTROMAGNETIC LOCK
- RX REQUEST TO EXIT SENSOR
- DE DELAYED EGRESS

X 3	STAIR A	# OF IDENTICAL ITEMS TAGGED - OPTIONAL
EXIT A	48" ACT.	EGRESS COMPONENT AND OPTIONAL GROUP
96" ACT.	120 OCC.	ACTUAL WIDTH PROVIDED
276 OCC.	44" REQ.	OCCUPANT LOAD
55.2" REQ.		REQUIRED WIDTH FOR OCCUPANT LOAD

AREA TAG
ASSEMBLY - UNCONC. TABLES & CHAIRS
999 SF
SF OC
OCC

- FUNCTION OF SPACE
- AREA
- OCCUPANT LOAD FACTOR
- OCCUPANTS

LEGEND

- RATED DOOR (RED)
- NON-RATED DOOR
- EXISTING DOOR

Perkins&Will
1301 5th Ave
#2300, Seattle,
WA 98101
t +1206816000
www.perkinswill.com

CONSULTANTS

FOOD SERVICE
INMAN FOOD SERVICES
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Nashville, Tennessee 37209

CIVIL
AHBL
1200 6th Ave #1620, Seattle, WA 98101

STRUCTURAL
PCS
1011 Western Avenue, Suite 810
Seattle WA 98104

CONTRACTOR
ABBOTT CONSTRUCTION
3408 1st Ave S,
Seattle, WA 98134

PLUMBING
MACDONALD MILLER
1004 Madison St,
Seattle, WA 98104

MECHANICAL
MACDONALD MILLER
1004 Madison St,
Seattle, WA 98104

ELECTRICAL
EBD SERVICES
14900 Interurban Ave S. #143
Seattle, WA 98168

PROJECT MNGR
TURNER & TOWNSEND
920 Fifth Avenue, Seattle, WA, 98104

6712 REGISTERED ARCHITECT
BRAD HINTHORNE
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MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 162433.000

TITLE
CODE COMPLIANCE EGRESS PLAN - PHASE 2

SHEET NUMBER
G01-01

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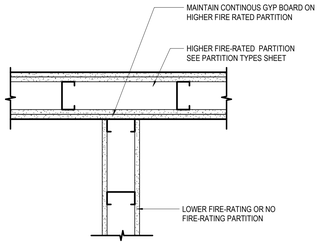
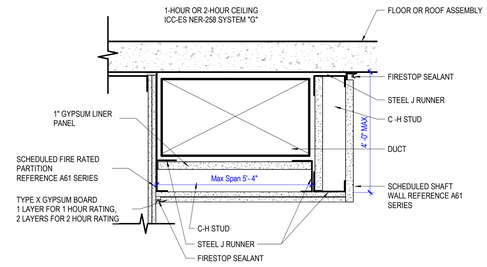
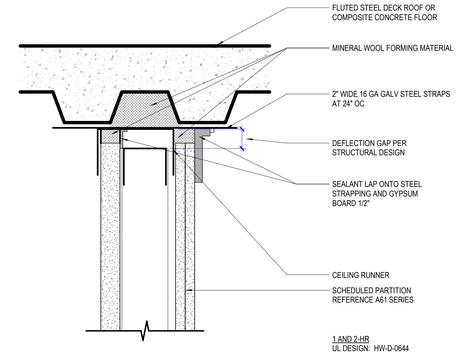


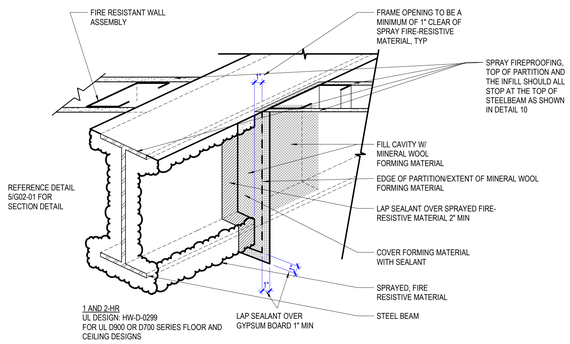
12 PARTITION PRIORITY DIGRAM
SCALE 1 1/2" = 1'-0"



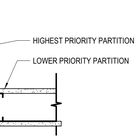
15 HORIZONTAL DUCT PROTECTION
SCALE 1 1/2" = 1'-0"

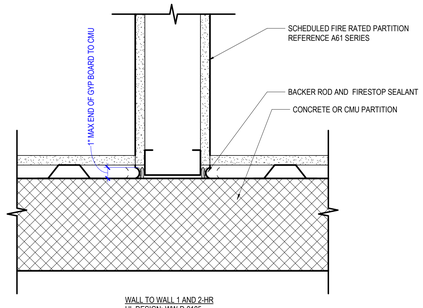


14 TYPICAL 1HR/2HR SHAFT WALL HEAD
3" = 1'-0" | METAL DECK PARALLEL TO PARTITION

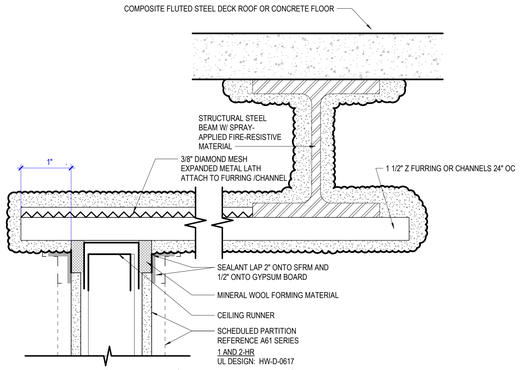


13 TYPICAL 1HR/2HR PARTITION HEAD AT STEEL BEAM INTERSECTION
1 1/2" = 1'-0" |

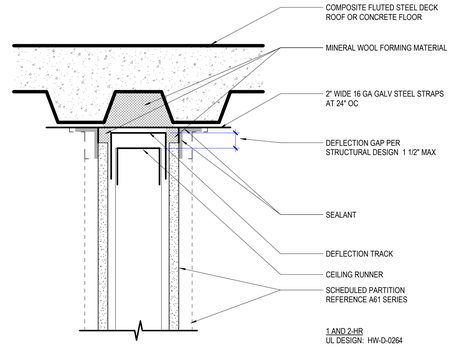




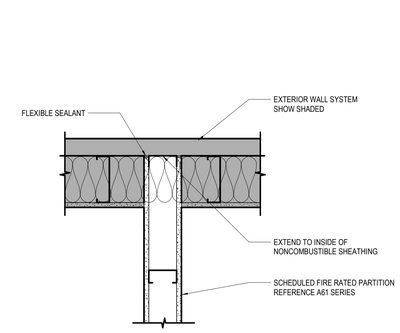
11 INTERSECTION OF RATED PARTITION AND CONCRETE OR CMU PARTITION
3" = 1'-0" |



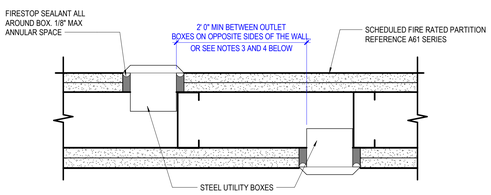
10 TYPICAL 1HR/2HR PARTITION HEAD AT STEEL BEAM
3" = 1'-0" | PARTITION 8" MAX FROM BEAM FLANGE



9 TYPICAL 1HR/2HR PARTITION HEAD
3" = 1'-0" | METAL DECK PARALLEL TO PARTITION

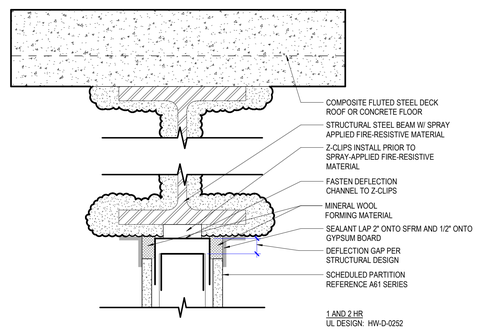


8 PARTITION PRIORITY @ EXTERIOR WALL
SCALE 1 1/2" = 1'-0"

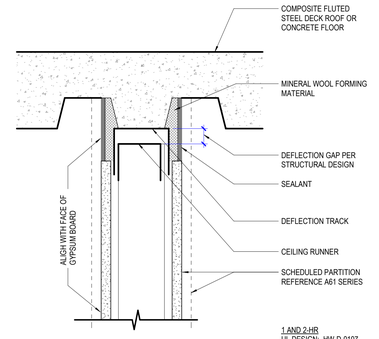


NOTES:
1. FOR ONE HOUR RATED PARTITIONS, TWO HOUR RATED PARTITIONS AND SMOKE PARTITIONS, SURFACE AREA OF INDIVIDUAL BOXES SHALL NOT EXCEED 16 SQUARE INCHES. THE AGGREGATED SURFACE OF ALL BOXES SHALL NOT EXCEED 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF PARTITION AREA AND SHALL BE LOCATED IN INDIVIDUAL NONCOMMUNICATING STUD CAVITIES
2. SOUND ATTENUATION BLANKETS NOT SHOWN FOR CLARITY, SEE A61 SERIES FOR ACOUSTICAL REQUIREMENTS.
3. MEMBRANE PENETRATIONS FOR LISTED ELECTRICAL OUTLETS ARE PERMITTED PROVIDED THEY HAVE BEEN TESTED FOR USE IN FIRE-RESISTANT RATED ASSEMBLIES.
4. UL DESIGN TESTED, BOX PADS MAY BE USED IN LIEU OF SEPARATING THE BOXES BY 24" AND TO PROTECT > 16" SQ BOXES.

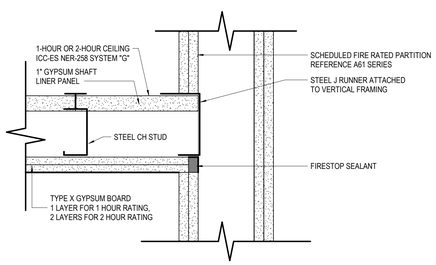
7 NON-LISTED UTILITY BOXES IN RATED PARTITIONS
SCALE 3" = 1'-0"



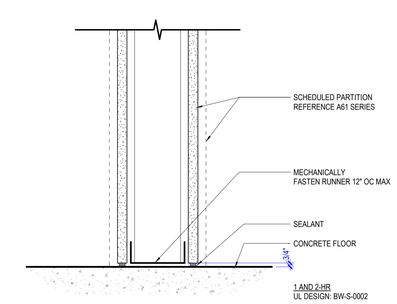
6 TYPICAL 1HR/2HR PARTITION HEAD AT STEEL BEAM
3" = 1'-0" | WALL CENTERED ON STEEL BEAM



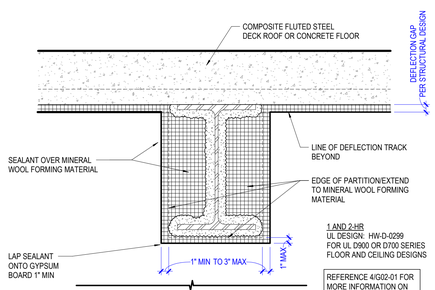
5 TYPICAL 1HR/2HR PARTITION HEAD
3" = 1'-0" | METAL DECK PARALLEL TO PARTITION



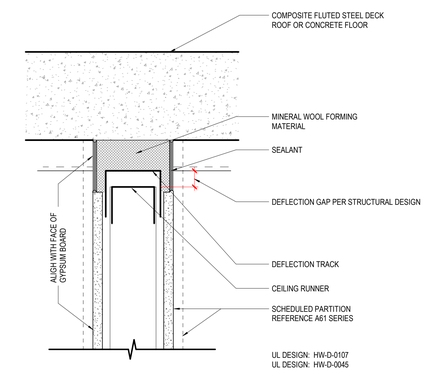
4 HORIZONTAL SHAFTWALL CEILING SYSTEM
SCALE 3" = 1'-0"



3 TYPICAL 1HR/2HR BASE OF PARTITION
3" = 1'-0" |



2 TYPICAL 1HR/2HR PARTITION HEAD AT STEEL BEAM INTERSECTION
1 1/2" = 1'-0" | METAL DECK PERPENDICULAR TO PARTITION



1 TYPICAL 1HR/2HR PARTITION HEAD
3" = 1'-0" | METAL DECK PERPENDICULAR TO PARTITION

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TURNER & TOWNSEND
920 Fifth Avenue, Seattle, WA, 98104

6712 REGISTERED ARCHITECT
BRAD HINTHORNE
STATE OF WASHINGTON

PHASE 2 CONSTRUCTION DOCUMENTS 07.25.2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital
MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
Job Number	162433.000	

TITLE
FIRE RESISTANCE DETAILS AND DIAGRAMS

SHEET NUMBER
G05-01

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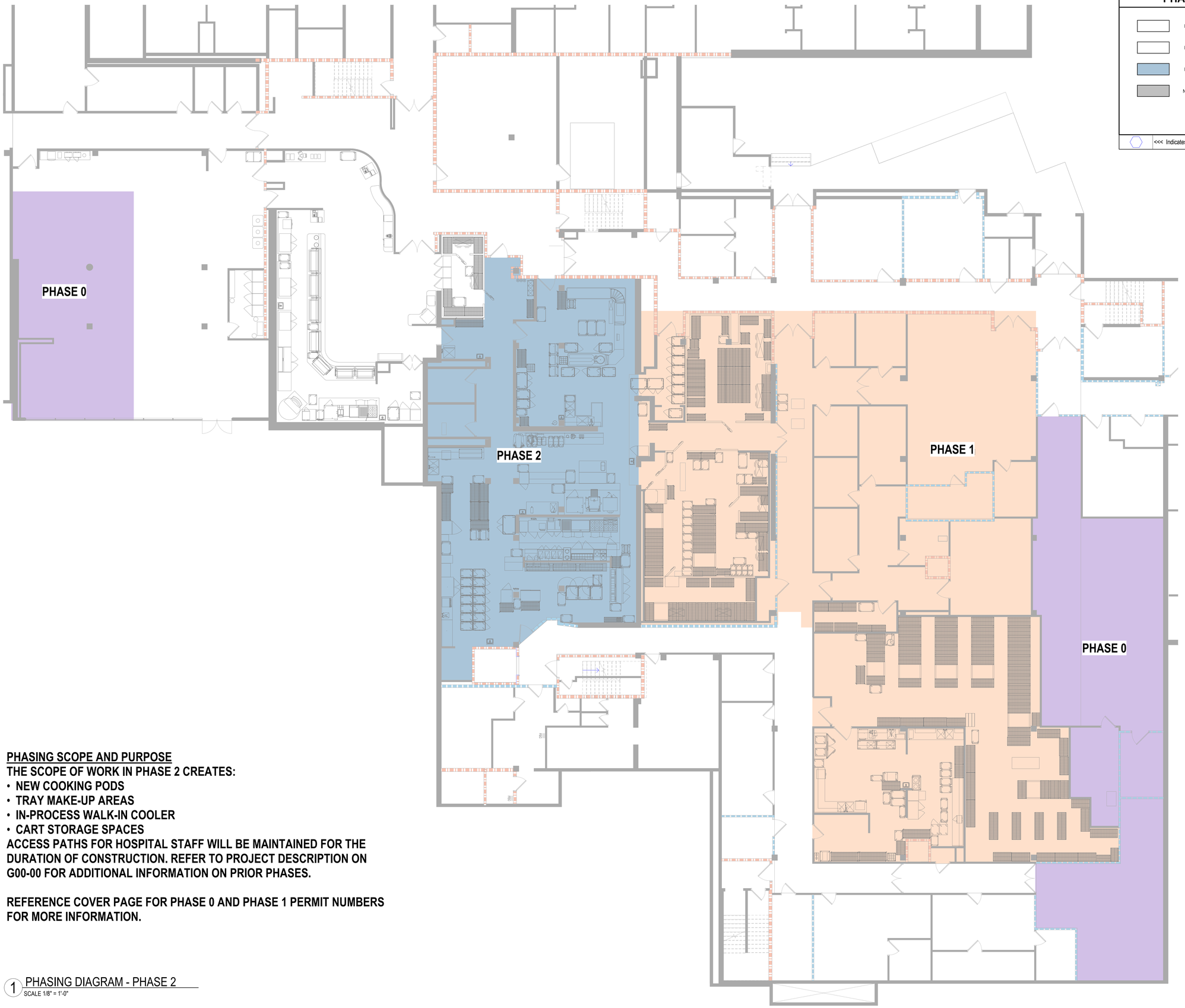

PHASING LEGEND

- PHASE 0
- PHASE 1
- PHASE 2
- NOT IN CONTRACT
- <<< Indicates Sheet Keynote on Plan

PHASING SCOPE AND PURPOSE

THE SCOPE OF WORK IN PHASE 2 CREATES:

- **NEW COOKING PODS**
- **TRAY MAKE-UP AREAS**
- **IN-PROCESS WALK-IN COOLER**
- **CART STORAGE SPACES**

ACCESS PATHS FOR HOSPITAL STAFF WILL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION. REFER TO PROJECT DESCRIPTION ON G00-00 FOR ADDITIONAL INFORMATION ON PRIOR PHASES.

REFERENCE COVER PAGE FOR PHASE 0 AND PHASE 1 PERMIT NUMBERS FOR MORE INFORMATION.

1 PHASING DIAGRAM - PHASE 2
SCALE 1/8" = 1'-0"

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WA 98372

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MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 162433.000

TITLE

PHASING DIAGRAMS

SHEET NUMBER

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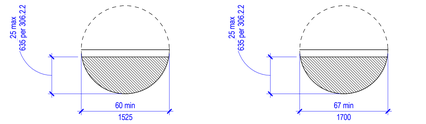


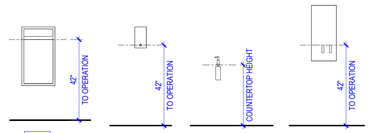
OVERLAP OF KNEE AND TOE CLEARANCE

CIRCULAR TURNING SPACE - EXISTING BUILDINGS (2017)

OVERLAP OF KNEE AND TOE CLEARANCE

CIRCULAR TURNING SPACE - NEW BUILDINGS (2017)

CIRCULAR TURNING SPACE

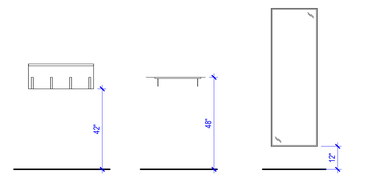


WR — SEMI-RECESSED WASTE RECEPTACLE

SD-1 — SURFACE MTD SOAP DISPENSER

SD-2 — COUNTERTOP MTD SOAP DISPENSER

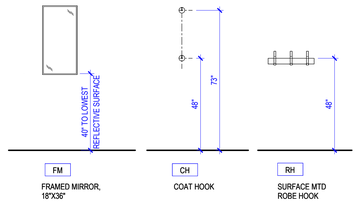
SND — SANITARY NAPKIN DISPENSER



B/MH — BROOM / MOP HOLDER W/ SHELF

WMS — WALL MTD SHELF

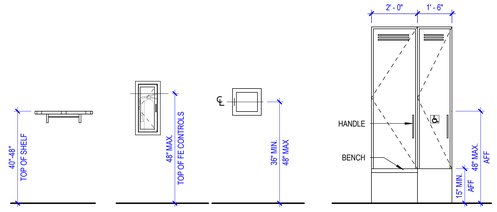
FM — FRAMED FULL-HEIGHT MIRROR, 24"X72"



FM — FRAMED MIRROR, 18"X36"

CH — COAT HOOK

RH — SURFACE MTD ROBE HOOK

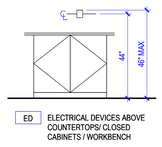


WMS — WALL MOUNT SHELF

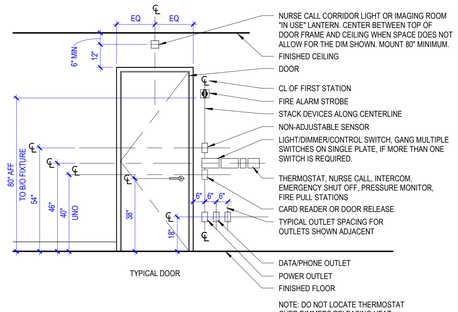
FEC — FIRE EXTINGUISHER CABINET

DC — AED DEFIBILLATOR CABINET

AL — ACCESSIBLE LOCKER



ED — ELECTRICAL DEVICES ABOVE COUNTERTOPS/ CLOSED CABINETS / WORKBENCH



NURSE CALL CORRIDOR LIGHT OR IMAGING ROOM "IN USE" LANTERN. CENTER BETWEEN TOP OF DOOR FRAME AND CEILING WHEN SPACE DOES NOT ALLOW FOR THE DIM SHOWN. MOUNT 80" MINIMUM.
FINISHED CEILING
DOOR
CL OF FIRST STATION
FIRE ALARM STROBE
STACK DEVICES ALONG CENTERLINE
NON-ADJUSTABLE SENSOR
LIGHT/DIMMER/CONTROL SWITCH, GANG MULTIPLE SWITCHES ON SINGLE PLATE, IF MORE THAN ONE SWITCH IS REQUIRED.
THERMOSTAT, NURSE CALL, INTERCOM, EMERGENCY SHUT OFF, PRESSURE MONITOR, FIRE PULL STATIONS
CARD READER OR DOOR RELEASE
TYPICAL OUTLET SPACING FOR OUTLETS SHOWN ADJACENT
DATA/PHONE OUTLET
POWER OUTLET
FINISHED FLOOR
NOTE: DO NOT LOCATE THERMOSTAT OVER DIMMERS RELEASING HEAT

TYPICAL DOOR

ACCESSIBILITY GENERAL NOTES

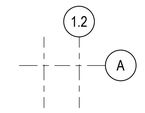
1. THESE PICTOGRAPHS DO NOT DESCRIBE ALL CONDITIONS WHICH MAY BE ENCOUNTERED IN THE FIELD. VERIFY QUESTIONS WITH ARCHITECT
2. INFORMATION IN THESE DRAWINGS IS COMPLEMENTARY TO THE PLANS, SECTIONS, ELEVATIONS AND DETAILS, AND SHALL BE USED IN CONJUNCTION WITH THEM
3. PROVIDE WORK SHOWN OR REFERRED TO HEREIN AS THOUGH SHOWN ON ALL OTHER ARCHITECTURAL DRAWINGS
4. INFORMATION REGARDING THE LOCATION OF MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS IS PROVIDED AS DESIGN CRITERIA FOR THE CONVENIENCE OF THOSE DESIGNERS OF RECORD WHO SHALL BEAR RESPONSIBILITY FOR COMPLIANCE WITH THE APPLICABLE CODE STANDARDS ILLUSTRATED AND CITED HEREIN
5. PROVIDE REINFORMENT, AS ILLUSTRATED HEREIN, AT TOILET AND SHOWER SEAT LOCATIONS. DASHED GRAB BARS DELINEATE REQUIRED REINFORCEMENT FOR FUTURE GRAB BARS. WHERE REINFORCEMENT IS NOT NOTED 32" MAX AFF AND 38" MIN AFF, UNO AND WHERE BLOCKING IS USED, A SINGLE 2X6 IS NOT ADEQUATE. GAPS IN REINFORCEMENT MUST BE 1/4" MAX.
6. IN LIEU OF REINFORCEMENT IN WALLS SURROUNDING SHOWERS, FIBERGLASS SHOWER SURROUNDINGS CAN BE REINFORCED TO ALLOW GRAB BARS TO BE ATTACHED TO SHOWER. ALLOWABLE STRESSES SHALL BE DESIGNED TO RESIST A VERTICAL OR HORIZONTAL FORCE OF 250 LBS APPLIED AT ANY POINT ON THE GRAB BAR, FASTNER MOUNTING DEVICE, OR SUPPORTING STRUCTURE.
7. PROVIDE GRAB BARS, AS ILLUSTRATED HEREIN, WITHIN PUBLIC AND COMMON SPACES, CODE MINIMUM AND MAXIMUM HEIGHTS ARE NOTED. SPECIFIC HEIGHT MAY BE CALLED OUT ON INTERIOR ELEVATIONS FOR COORDINATION WITH ACCESSORIES ABOVE GRAB BARS.
8. COMPLY WITH MOUTING HEIGHTS INDICATED HEREIN FOR WALL-MOUNTED ITEMS. MOUNTING HEIGHTS APPLY TO ALL ITEMS IN ACCESSIBLE AND TYPE A UNITS SAME AS PUBLIC/COMMON AREAS.
9. COMPLY WITH GENERAL BUILDING CLEARANCE REQUIREMENTS AS INDICATED HEREIN. CLEAR FLOOR SPACE REQUIREMENTS SHOWN DASHED. REFERENCE "TYPICAL SYMBOLS LEGEND" WITHIN ACCESSIBLE AND TYPE A MOBILITY UNITS, ALL DOORS FOR USER SHALL HAVE DOOR MANEUVERING CLEARANCES SAME AS IN PUBLIC AND COMMON AREAS. ALL TURNING SPACE, FLOOR LEVEL CHANGES AND REACH RANGES FROM PREVIOUS SHEET APPLY IN UNITS SAME AS IN PUBLIC AND COMMON AREAS.
10. ENCROACHMENT INTO FLOOR CLEARANCE AREAS AT DOORS, CASEWORK, OR EQUIPMENT IS NOT ALLOWED UNLESS OTHERWISE NOTED.
11. NOTIFY THE ARCHITECT IMMEDIATELY IF CONFLICTS ARE DISCOVERED BETWEEN THE REQUIREMENTS ILLUSTRATED HEREIN AND THOSE ON OTHER DRAWINGS.
12. OPERABLE PARTS IN PUBLIC, COMMON, ACCESSIBLE UNITS, TYPE A UNITS SHALL BE OPERATED WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5.0 POUNDS (22.2 N) MAXIMUM.
13. FOR SHOWERS REQUIRED TO COMPLY WITH DETAILS ON THESE SHEETS, FOLLOW INFORMATION PROVIDED IN DETAILS. FOR NON-ACCESSIBLE SHOWERS AND WHERE NOT NOTED HERE, FIXED SHOWER HEAD TO BE MOUNTED AT 80" FROM FLOOR TO CENTER. SHOWER CURTAIN ROD FOR TUB/ SHOWERS SHALL BE MOUNTED AT 77" TO CENTER FOR TYPE B UNIT AND NON-ACCESSIBLE SHOWER WITH CURB, AND 74" FOR ALL OTHER SHOWERS.
14. ALL DIMENSIONS ON THIS SHEET ARE MEASURED TO FINISH FLOOR EXCEPT FOR ITEMS WITHIN IN STAND-ALONE SHOWER ARE NOTED TO FLOOR SURFACE OF SHOWER BELOW ITEM.
15. PROVIDE A HAND SHOWER WITH A HOSE 59" MIN IN LENGTH THAT CAN BE USED AS BOTH FIXED SHOWER HEAD AND AS A HAND SHOWER. THE HAND SHOWER SHALL HAVE A CONTROL WITH NON-POSITIVE SHUT-OFF FEATURE. AN ADJUSTABLE HEIGHT HAND SHOWER MOUNTED ON A VERTICAL BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS. HAND SHOWER MOUNTED AT 45° MAX TO BOTTOM OF SLIDE BAR.
16. MAXIMUM 2'-10" (AFF) TO TOP OF COUNTER TOP AT ACCESSIBLE LAVATORY WITH UNDER MOUNT SINKS - 2'-10" (AFF) TO TOP OF FLOW RING AT DROP-IN SINK.

ABBREVIATIONS

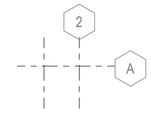
APC	ACOUSTICAL PANEL CEILING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL), ARCHITECT
BLDG	BUILDING
CF/CI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED, OWNER INSTALLED
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
cm	CENTIMETER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
COORD	COORDINATE
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DS	DOWNSPOUT
DWG	DRAWING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FLR	FLOOR
FP	FIRE PROTECTION/ FIREPROOF
FRTW	FIRE RETARDANT TREATED WOOD
FT	FOOT (FEET)
FTG	FOOTING
FURN	FURNISH, FURNITURE
GA	GAGE
GALV	GALVANIZED
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GLU LAM	GLUED LAMINATED WOOD
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
H	HIGH
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
L	LONG, LENGTH
LAM	LAMINATE(D)
LF	LINEAR FOOT, (FEET)
LP	LOW POINT
LVR	LOUVER
m	METER
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER
MO	MASONRY OPENING
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED, OWNER INSTALLED
OPH	OPPOSITE HAND
PCC	PRE-CAST CONCRETE
PERF	PERFORATED
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PNT	PAINT
PREFAB	PREFABRICATE(D)
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RADIUS, RISER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REINF	REINFORCE, REINFORCING
REQ(D)	REQUIRE, REQUIRED
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT(FEET)
SIM	SIMILAR
SPEC	SPECIFICATION
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STRUCT	STRUCTURAL
T	TREAD
T/	TOP OF
T&G	TONGUE & GROOVE
TEMP	TEMPORARY
THK	THICK
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITHOUT
WD	WOOD
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
X	BY

SYMBOLS LEGEND

COLUMN GRID DESIGNATION



NEW GRID

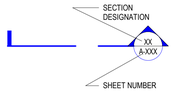


EXISTING GRID

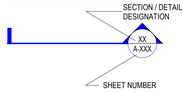
SHEET KEYNOTE TAGS

SHEET KEYNOTE

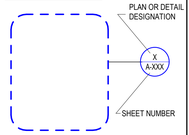
BUILDING SECTION TAG



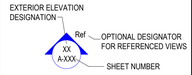
WALL / DETAIL SECTION TAGS



ENLARGED PLAN TAG

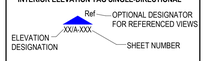


EXTERIOR ELEVATION TAG



INTERIOR ELEVATION TAGS

INTERIOR ELEVATION TAG SINGLE-DIRECTIONAL



DOOR IDENTIFICATION TAG

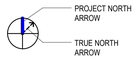
EQUIPMENT DESIGNATION

XXXXX — EQUIPMENT TAG
REFER TO A66 SERIES FOR INFORMATION

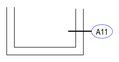
TOILET ACCESSORY TAG

TA-1 — TOILET ACCESSORY TAG. REFER TO THIS SHEET FOR LEGEND AND MOUNTING HEIGHTS

NORTH ARROW



PARTITION TAG



REFER TO A61 SERIES FOR PARTITION TYPES

GLAZING TAG

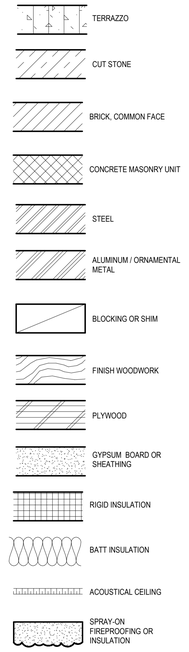
A — EXTERIOR GLAZING SYSTEM TAG. REFER TO A33 SERIES FOR SCHEDULE

1 — INTERIOR GLAZING SYSTEM TAG. REFER TO A63 SERIES FOR SCHEDULE

GENERAL PROJECT NOTES

1. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
2. DO NOT SCALE THE DRAWINGS. IF DIMENSIONS ARE IN QUESTION OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING.
3. DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF GYPSUM BOARD FOR PARTITIONS, TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR MASONRY WALLS UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS AND TO FINISH FACE OF GYPSUM BOARD FOR NEW PARTITIONS UNLESS OTHERWISE INDICATED.
4. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OF OF/CI EQUIPMENT. MINIMUM REQUIRED OPENINGS AND ACCESSIBLE ROUTES TO THE INSTALLATION AREA SHALL BE COORDINATED WITH THE SUPPLIER.
5. FINISH FLOOR ELEVATIONS ARE TO TOP OF STRUCTURAL FLOOR UNLESS OTHERWISE NOTED.
6. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE.
7. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A PARTITION ARE TO BE CONSISTENT FOR THE LENGTH AND HEIGHT OF A PARTITION.
8. OPENINGS IN A RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEMS OR PROTECTED WITH A FIRE RATED CHASE.
9. WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
10. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
11. COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS.
12. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
13. DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK. IT IS ACCEPTABLE TO ATTACH CEILING SYSTEM WIRE HANGERS FROM JOISTS OR BEAMS. IF NO JOIST OR BEAM IS AVAILABLE, PROVIDE SUPPLEMENTAL STEEL SUPPORTS

MATERIALS AT LARGE SCALES



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STATE OF WASHINGTON

PHASE 2 CONSTRUCTION DOCUMENTS 07.25.2025

MultiCare Good Samaritan Hospital Kitchen
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MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
Job Number		162433.000

TITLE

GENERAL INFORMATION

SHEET NUMBER

A00-01

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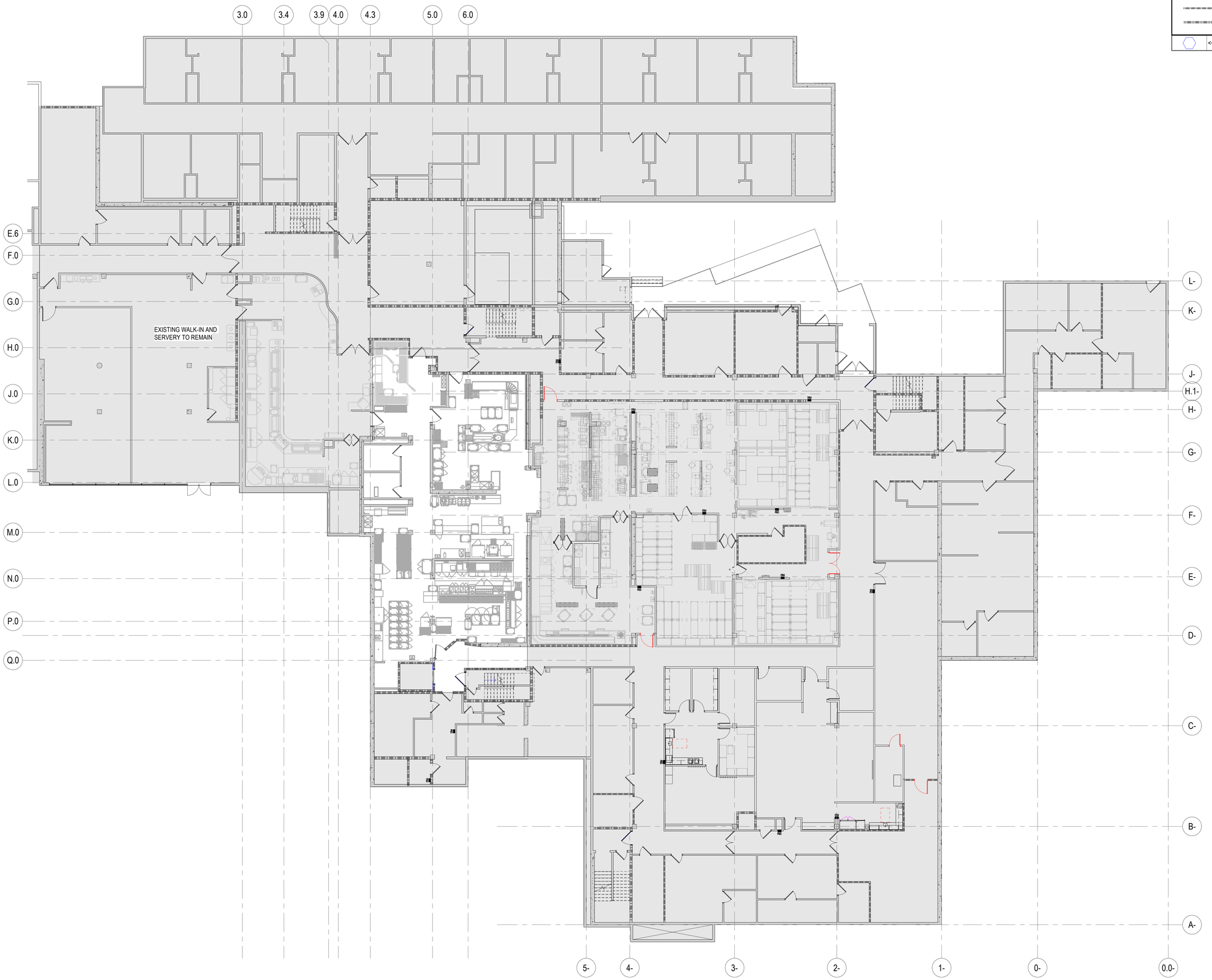
FOR INFORMATION ONLY

FIRE AND SMOKE RATING LEGEND

	NOT IN CONTRACT
	EXISTING 1HR FIRE BARRIER
	EXISTING 2HR FIRE BARRIER
<<<	Indicates Sheet Keynote on Plan



1 OVERALL EXISTING LEVEL 01
SCALE 3/32" = 1'-0"

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MultiCare Good Samaritan Hospital

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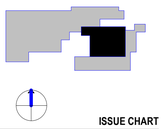
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 162433.000

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OVERALL EXISTING FLOOR PLAN LEVEL 01

SHEET NUMBER

A01-01

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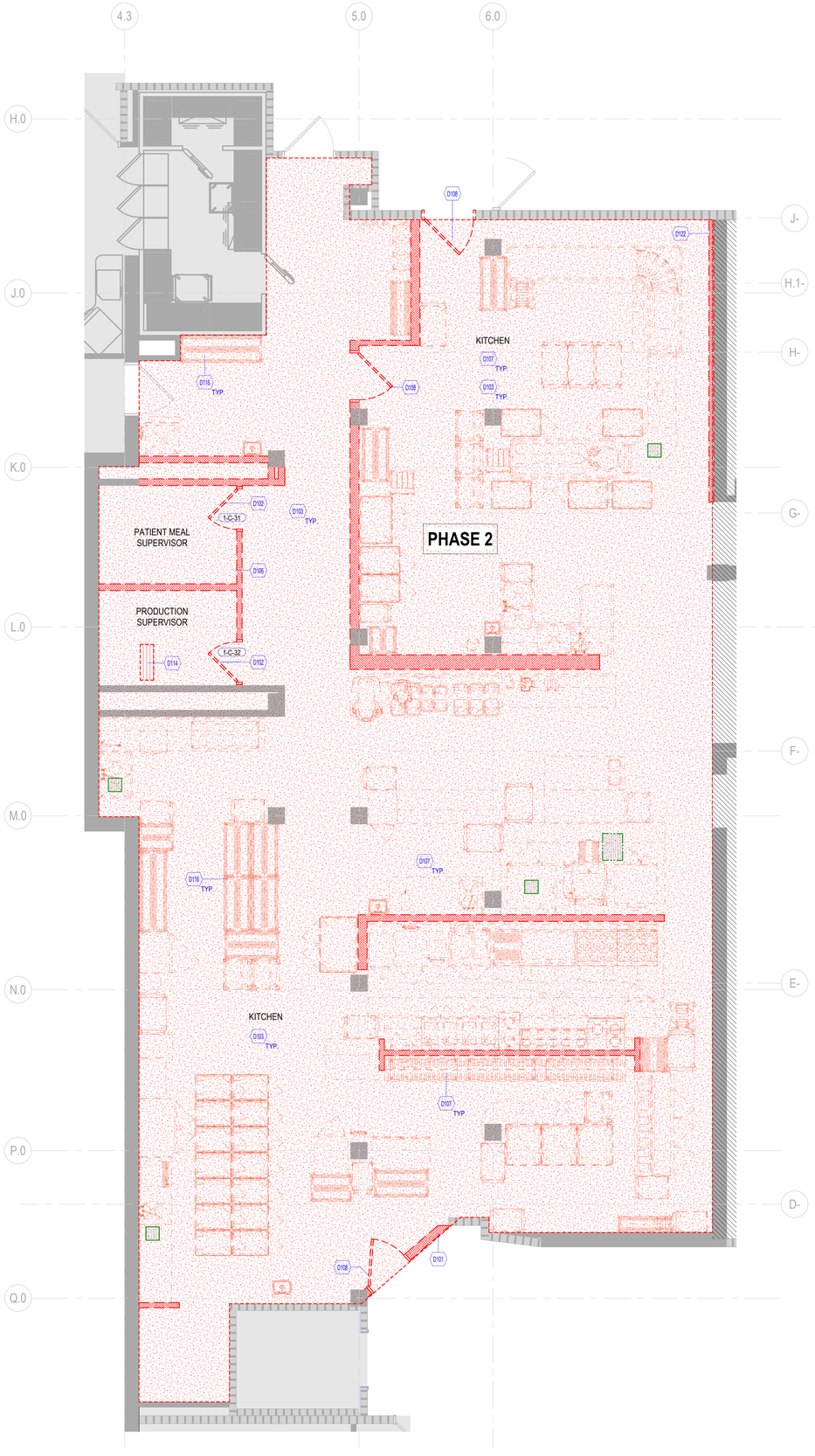

1 DEMOLITION PLAN LEVEL 01 - PHASE 2
SCALE 1/4" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD SURVEY THE SITE OF PROPOSED WORK TO DETERMINE THE EXTENT AND NATURE OF THE DEMOLITION WORK. REFER TO ALL CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND SCOPE OF DEMOLITION WORK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
2. CONTRACTOR TO SCAN OR X-RAY FLOOR PRIOR TO CUTTING OPENINGS FOR FLOOR PENETRATIONS.
3. PROTECTION SHALL BE PROVIDED FOR BASE BUILDING CONSTRUCTION AND ALL EXISTING CONSTRUCTION TO REMAIN.
4. THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDUIT, WIRING, JUNCTION BOXES, ELECTRICAL COMMUNICATION, AND LIFE SAFETY DEVICES WITH THE LANDLORD AND OWNER PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. ALL EXISTING ITEMS TO REMAIN SHALL BE PROPERLY MARKED AT THE PROJECT SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDLORD AND OWNER.
5. COORDINATE WITH OWNER TO VERIFY THAT OWNER HAS REMOVED ALL ITEMS SCHEDULED OR PLANNED TO BE REMOVED BY OWNER.
6. WHERE PARTITIONS ARE BEING REMOVED, ALL ELECTRICAL OUTLETS AND SWITCHES SHALL BE DISCONNECTED AT SUPPLY JUNCTION BOXES, UNO.
7. WHERE PLUMBING, WATER LINES, WASTES, AND VENTS ARE REMOVED, THEY SHALL BE DISCONNECTED AND CAPPED AT THE TAP SOURCE; ADEQUATELY RECESS TO ACCOMMODATE PATCHING AND FINISH OF THE FINISH SURFACE.
8. WHERE TACKLESS CARPET AND/OR PAD ARE BEING REMOVED, REMOVE MECHANICAL ATTACHMENTS TO THE FLOOR.
9. WHERE GLUE DOWN CARPET, RESILIENT FLOORING OR OTHER GLUED FLOOR INSTALLATIONS ARE TO BE REMOVED, REMOVE ALL ADHESIVE TO LEAVE THE FLOOR WITH A SMOOTH, FINISH.
10. REMOVE ALL LOW VOLTAGE CABLING AND CONNECTORS THAT ARE NOT REQUIRED FOR THE OPERATION OF THE FINAL LOW VOLTAGE SYSTEM.
11. ALL EMPTY CONDUITS TO BE REMOVED.
12. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO OWNER OR ARCHITECT. IMMEDIATELY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.
13. IF SALVAGED DOORS FOR FUTURE USE ARE NOT NEEDED TO BE RATED REMOVE RATED MARKINGS

LEGEND

X' - X"	REFER STRUCTURE FOR DIMENSION
	CONSTRUCTION TO BE REMOVED
	NOT IN CONTRACT
	AREA OUT OF ARCHITECTURAL SCOPE FOR CURRENT PHASE (BUT REFER TO OTHER DISCIPLINE DEMOLITION DOCUMENTS FOR ADDITIONAL WORK)
	FLOOR SLAB TO BE REMOVED WITHIN AREA INDICATED. REFER MECHANICAL, PLUMBING AND STRUCTURE.
	WALL TO BE REMOVED WITHIN AREA INDICATED
	FLOOR FINISH TO BE REMOVED WITHIN AREA INDICATED
EX	EXISTING TO REMAIN
ED	EXISTING TO BE DEMOLISHED
ES	EXISTING TO BE SALVAGED
	EXISTING CONSTRUCTION TO REMAIN
	NEW NON-RATED CONSTRUCTION
	EXISTING 1HR FIRE BARRIER
	EXISTING 2HR FIRE BARRIER

DEMOLITION PLAN KEYNOTES

⬡	<<< Indicates Sheet Keynote on Plan
D101	DEMOLISH PORTION OF EXISTING PARTITION.
D102	EXISTING DOOR, FRAME AND HARDWARE - SALVAGED FOR REUSE
D103	DEMOLISH EXISTING FLOOR FINISH AND BASE.
D106	NOT USED
D107	EXISTING COUNTERS, EQUIPMENT AND PLUMBING FIXTURES TO BE REMOVED.
D108	EXISTING DOOR, FRAME AND HARDWARE TO BE DEMOLISHED.
D114	SLAB TO BE DEMOLISHED WITHIN AREA INDICATED. REFER TO STRUCTURAL AND FOOD SERVICE DRAWINGS FOR SIZING AND LOCATION.
D116	EXISTING DRY STORAGE EQUIPMENT TO BE REMOVED AND SALVAGED. DETAILS TO BE COORDINATED WITH OWNER.
D122	EXISTING FUR OUT FRAMING TO BE SALVAGED OR REBUILT

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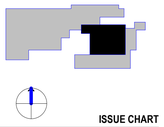
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 162433.000

TITLE

DEMOLITION PLAN LEVEL 01 - PHASE 2

SHEET NUMBER

A04-01

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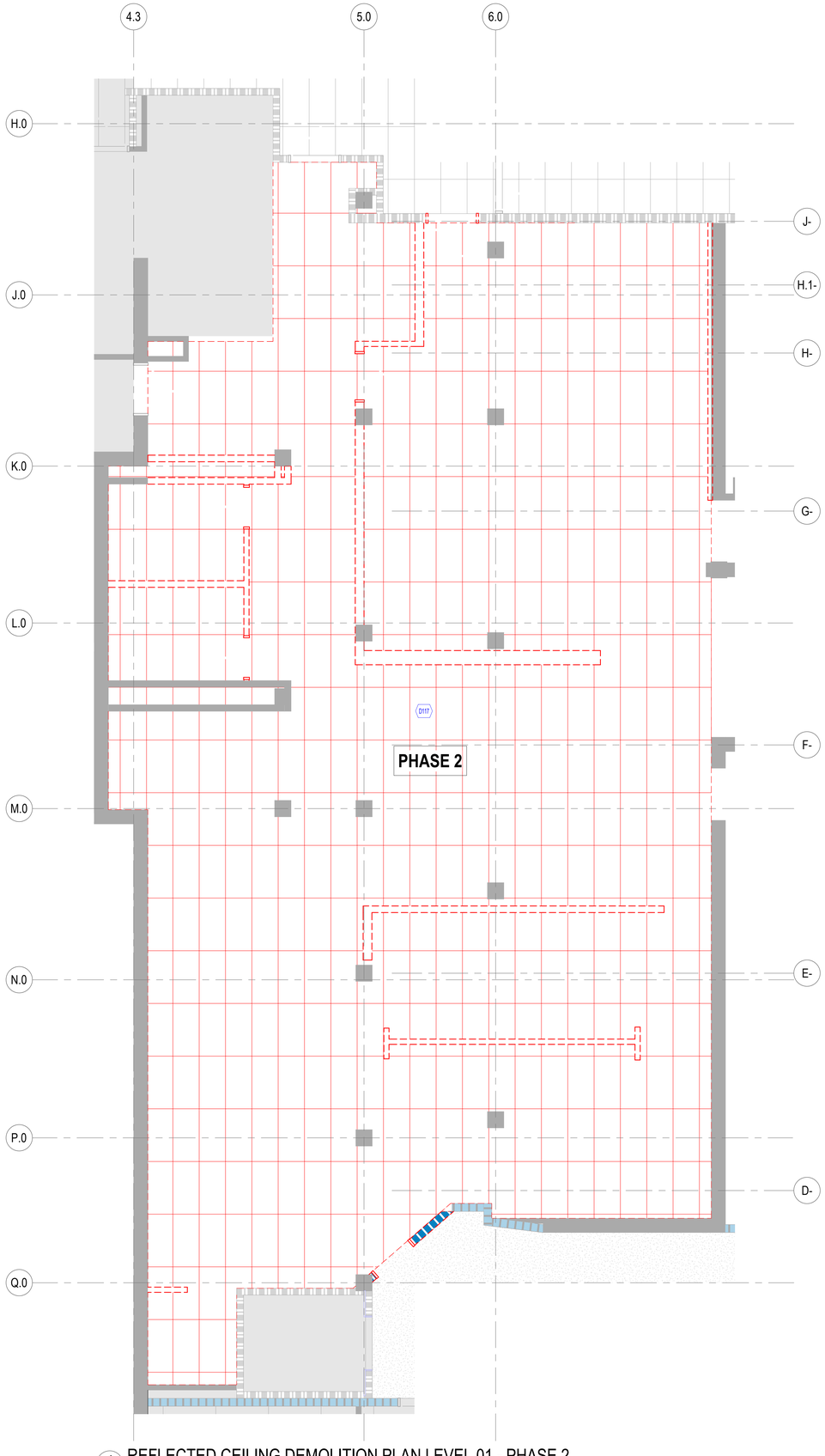

1 REFLECTED CEILING DEMOLITION PLAN LEVEL 01 - PHASE 2
SCALE 1/4" = 1'-0"

DEMOLITION CEILING PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD SURVEY THE SITE OF PROPOSED WORK TO DETERMINE THE EXTENT AND NATURE OF THE DEMOLITION WORK. REFER TO ALL CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND SCOPE OF DEMOLITION WORK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
2. CONTRACTOR TO SCAN OR X-RAY FLOOR PRIOR TO CUTTING OPENINGS FOR FLOOR PENETRATIONS.
3. PROTECTION SHALL BE PROVIDED FOR BASE BUILDING CONSTRUCTION AND ALL EXISTING CONSTRUCTION TO REMAIN.
4. THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDUIT, WIRING, JUNCTION BOXES, ELECTRICAL COMMUNICATION, AND LIFE SAFETY DEVICES WITH THE LANDLORD AND OWNER PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. ALL EXISTING ITEMS TO REMAIN SHALL BE PROPERLY MARKED AT THE PROJECT SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDLORD AND OWNER.
5. COORDINATE WITH OWNER TO VERIFY THAT OWNER HAS REMOVED ALL ITEMS SCHEDULED OR PLANNED TO BE REMOVED BY OWNER.
6. WHERE PLUMBING, WATER LINES, WASTES, AND VENTS ARE REMOVED, THEY SHALL BE DISCONNECTED AND CAPPED AT THE TAP CONNECTION; ADEQUATELY RECESS TO ACCOMMODATE PATCHING AND FINISH OF THE FINISH SURFACE.
7. REMOVE ALL LOW VOLTAGE CABLING AND CONNECTORS THAT ARE NOT REQUIRED FOR THE OPERATION OF THE FINAL LOW VOLTAGE SYSTEM.
8. ALL EMPTY CONDUITS TO BE REMOVED.
9. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO OWNER OR ARCHITECT. IMMEDIATELY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.

LEGEND

- NOT IN CONTRACT
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING ACOUSTICAL TILE CEILING SYSTEM TO BE DEMOLISHED
- EXISTING METAL CEILING SYSTEM ABOVE COOLERS TO BE DEMOLISHED
- EXISTING GYB BD CEILING AND SOFFIT TO BE DEMOLISHED
- EX — FIXTURE TO REMAIN
- ED — FIXTURE TO BE DEMOLISHED
- ES — FIXTURE TO BE SALVAGED

DEMOLITION CEILING PLAN KEYNOTES

<<<	Indicates Sheet Keynote on Plan
D117	EXISTING CEILING SYSTEM AND CEILING MOUNTED FIXTURES TO BE REMOVED.

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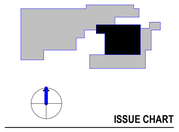
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 162433.000

TITLE
DEMOLITION REFLECTED CEILING PLAN LEVEL 01 - PHASE 2

SHEET NUMBER
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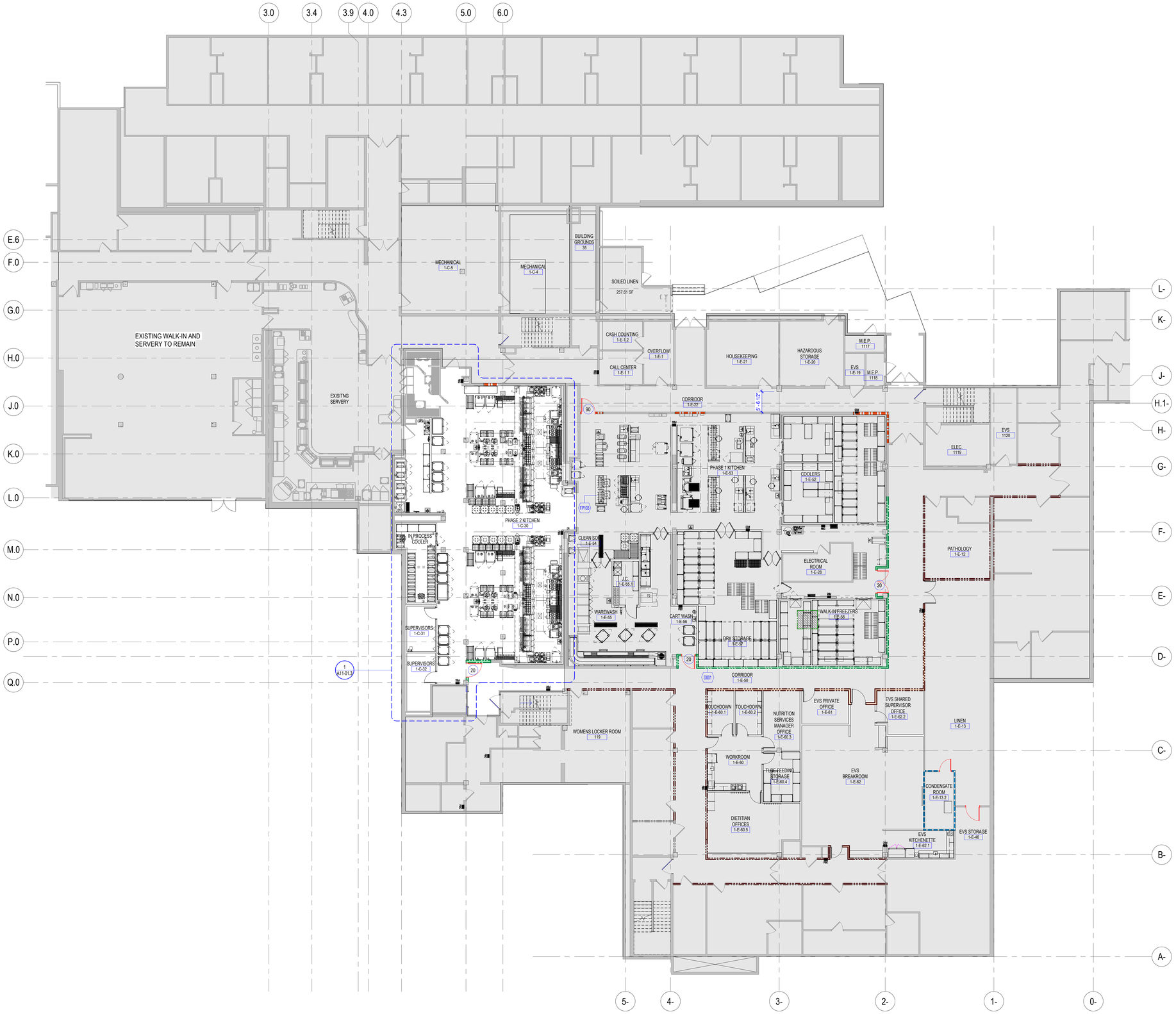

1 OVERALL LEVEL 01- PHASE 2
SCALE 3/32" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE THE A61 SERIES FOR PARTITION TYPES.
2. ADDITION TO OR INFILL OF EXISTING WALLS ARE TO MATCH ASSEMBLY, WIDTH AND FIRE RATING IF REQUIRED.
3. ALL PARTITIONS ARE TYPE * A42 * UNLESS NOTED OTHERWISE.
4. ALL SHAFT WALLS ARE TYPE "K40" UNLESS NOTES OTHERWISE. ALL SHAFT WALLS TO BE INSTALLED TIGHT TO DUCTS UNLESS DIMENSION PROVIDED.
5. ALL PARTITION TYPE A33 TO BE 5' 6", UNLESS NOTED OTHERWISE.
6. DOOR DIMENSIONS ARE TO EDGE OF DOOR LEAF UNLESS NOTED OTHERWISE.
7. FOR SWINGING DOORS, THE HINGE SIDE OF THE DOOR JAMB SHALL BE LOCATED 4" FROM THE ADJACENT PERPENDICULAR WALL, UNLESS NOTED OTHERWISE.
8. ROOM NUMBERS ARE FOR CONSTRUCTION ONLY.
9. EXISTING DOORS ARE TO BE SALVAGED FOR REINSTALLATION AT CORRESPONDING DOOR TAG LOCATIONS WHERE NOTED.
10. IF SALVAGED DOORS FOR FUTURE USE ARE NOT NEEDED TO BE RATED REMOVE RATED MARKINGS.
11. PARTITION DIMENSIONS ARE TO FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.
12. FURNITURE IS SHOW FOR REFERENCE AND COORDINATION PURPOSES ONLY. ALL FURNITURE IS EXISTING TO BE RELOCATED, UNLESS NOTES OTHERWISE.
13. ALL COLUMNS TO RECEIVE WALL PROTECTION AND CORNER GUARDS, UNLESS NOTES OTHERWISE. REFER TO FINISH PLANS.

FLOOR PLAN LEGEND

- NOT IN CONTRACT
- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION (CONTRACTOR TO VERIFY AND LOCATE ALL EXISTING AND NEW FIRE PARTITIONS PRIOR TO CONSTRUCTION. FIRE RATED PARTITIONS ARE NOT SHOWN ON THIS PLAN FOR CLARITY. REFERENCE SHEETS 10-01 AND 12-01 FOR FIRE RATED PARTITION LOCATIONS)
- 1-X-301.1 — DOOR TAG REF A 62 SERIES FOR DOOR SCHEDULE
- A11 — PARTITION TAG REF A61 SERIES FOR CHARTS
- FEC — FIRE EXTINGUISHER CABINET, REFER TO A61-01 SHEET FOR INSTALLATION DETAIL
- CR — CARD READER EX DENOTES EXISTING TO REMAIN
- TC — TIME CLOCK EX DENOTES EXISTING TO REMAIN
- AO — AUTO OPERATOR EX DENOTES EXISTING TO REMAIN

<<<	Indicates Sheet Keynote on Plan
D001	THIS EXISTING FIRE BARRIER TO BECOME NEW SMOKE BARRIER WITH SMOKE COMPARTMENT ADJUSTMENT
FP103	REFER TO FOOD SERVICE DRAWINGS FOR STEP 1 AND STEP 2 CONFIGURATIONS IN THIS ZONE

FIRE & SMOKE RATING LEGEND

- 90 — DOOR FIRE RATING
- PARTITION FIRE RATING
- PARTITION SMOKE REQUIREMENT
- EXISTING CONSTRUCTION TO REMAIN
- NEW NON-RATED CONSTRUCTION
- EXISTING 1HR FIRE BARRIER
- EXISTING 2HR FIRE BARRIER
- NEW 1HR RATED FIRE BARRIER
- NEW 2HR RATED FIRE BARRIER
- EXISTING 1HR RATED SMOKE BARRIER
- EXISTING SMOKE PARTITION
- NEW 1HR RATED SMOKE BARRIER
- NEW SMOKE PARTITION

FLOOR PLAN KEYNOTES

- RATED DOOR (RED)
- NON-RATED DOOR
- EXISTING DOOR

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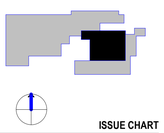

ISSUE CHART

MARK	ISSUE	DATE
Job Number	162433.000	

TITLE

OVERALL FLOOR PLAN LEVEL 01

SHEET NUMBER

A10-01

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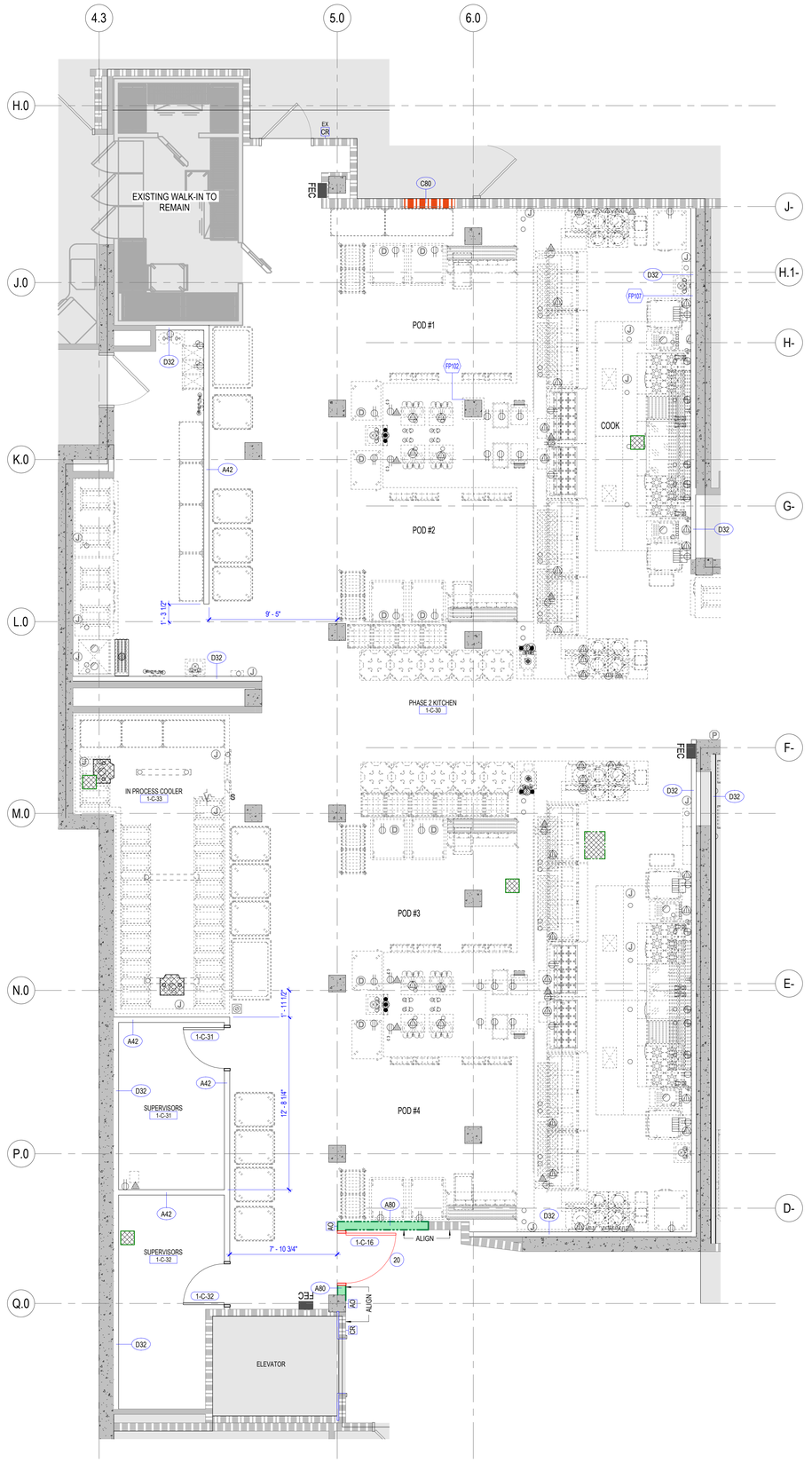

1 FLOOR PLAN LEVEL 01 - PHASE 2
SCALE 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

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2. ADDITION TO OR INFILL OF EXISTING WALLS ARE TO MATCH ASSEMBLY, WIDTH AND FIRE RATING IF REQUIRED.
3. ALL PARTITIONS ARE TYPE * A42 * UNLESS NOTED OTHERWISE.
4. ALL SHAFT WALLS ARE TYPE "K40" UNLESS NOTES OTHERWISE. ALL SHAFT WALLS TO BE INSTALLED TIGHT TO DUCTS UNLESS DIMENSION PROVIDED.
5. ALL PARTITION TYPE A33 TO BE 5' 6", UNLESS NOTED OTHERWISE.
6. DOOR DIMENSIONS ARE TO EDGE OF DOOR LEAF UNLESS NOTED OTHERWISE.
7. FOR SWINGING DOORS, THE HINGE SIDE OF THE DOOR JAMB SHALL BE LOCATED 4" FROM THE ADJACENT PERPENDICULAR WALL, UNLESS NOTED OTHERWISE.
8. ROOM NUMBERS ARE FOR CONSTRUCTION ONLY.
9. EXISTING DOORS ARE TO BE SALVAGED FOR REINSTALLATION AT CORRESPONDING DOOR TAG LOCATIONS WHERE NOTED.
10. IF SALVAGED DOORS FOR FUTURE USE ARE NOT NEEDED TO BE RATED REMOVE RATED MARKINGS.
11. PARTITION DIMENSIONS ARE TO FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.
12. FURNITURE IS SHOW FOR REFERENCE AND COORDINATION PURPOSES ONLY. ALL FURNITURE IS EXISTING TO BE RELOCATED, UNLESS NOTES OTHERWISE.
13. ALL COLUMNS TO RECEIVE WALL PROTECTION AND CORNER GUARDS, UNLESS NOTES OTHERWISE. REFER TO FINISH PLANS.

FLOOR PLAN LEGEND

- NOT IN CONTRACT
- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION (CONTRACTOR TO VERIFY AND LOCATE ALL EXISTING AND NEW FIRE PARTITIONS PRIOR TO CONSTRUCTION. FIRE RATED PARTITIONS ARE NOT SHOWN ON THIS PLAN FOR CLARITY. REFERENCE SHEETS 10-01 AND 12-01 FOR FIRE RATED PARTITION LOCATIONS)
- 1-X-301.1 — DOOR TAG REF A 62 SERIES FOR DOOR SCHEDULE
- A11 — PARTITION TAG REF A61 SERIES FOR CHARTS
- FEC — FIRE EXTINGUISHER CABINET, REFER TO A61-01 SHEET FOR INSTALLATION DETAIL
- CR — CARD READER EX DENOTES EXISTING TO REMAIN
- TC — TIME CLOCK EX DENOTES EXISTING TO REMAIN
- AO — AUTO OPERATOR EX DENOTES EXISTING TO REMAIN

<<<	Indicates Sheet Keynote on Plan
FP102	COUNTER ASSEMBLY CLEARANCE. REFER TO FOOD SERVICE DRAWINGS FOR CONTRACTOR TO NOTE.
FP107	WALL LOCATION TO BE COORDINATED IN FIELD DUE TO PLUMBING LINE CONFLICTS WITH CONCRETE WALL FOOTING.

FIRE & SMOKE RATING LEGEND

- 90 — DOOR FIRE RATING
- PARTITION FIRE RATING
- PARTITION SMOKE REQUIREMENT
- EXISTING CONSTRUCTION TO REMAIN
- NEW NON-RATED CONSTRUCTION
- EXISTING 1HR FIRE BARRIER
- EXISTING 2HR FIRE BARRIER
- NEW 1HR RATED FIRE BARRIER
- NEW 2HR RATED FIRE BARRIER
- EXISTING 1HR RATED SMOKE BARRIER
- EXISTING SMOKE PARTITION
- NEW 1HR RATED SMOKE BARRIER
- NEW SMOKE PARTITION

FLOOR PLAN KEYNOTES

- RATED DOOR (RED)
- NON-RATED DOOR
- EXISTING DOOR

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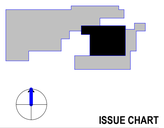
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE
Job Number		162433.000

TITLE

PARTIAL FLOOR PLAN LEVEL 01 - PHASE 2

SHEET NUMBER

A11-01

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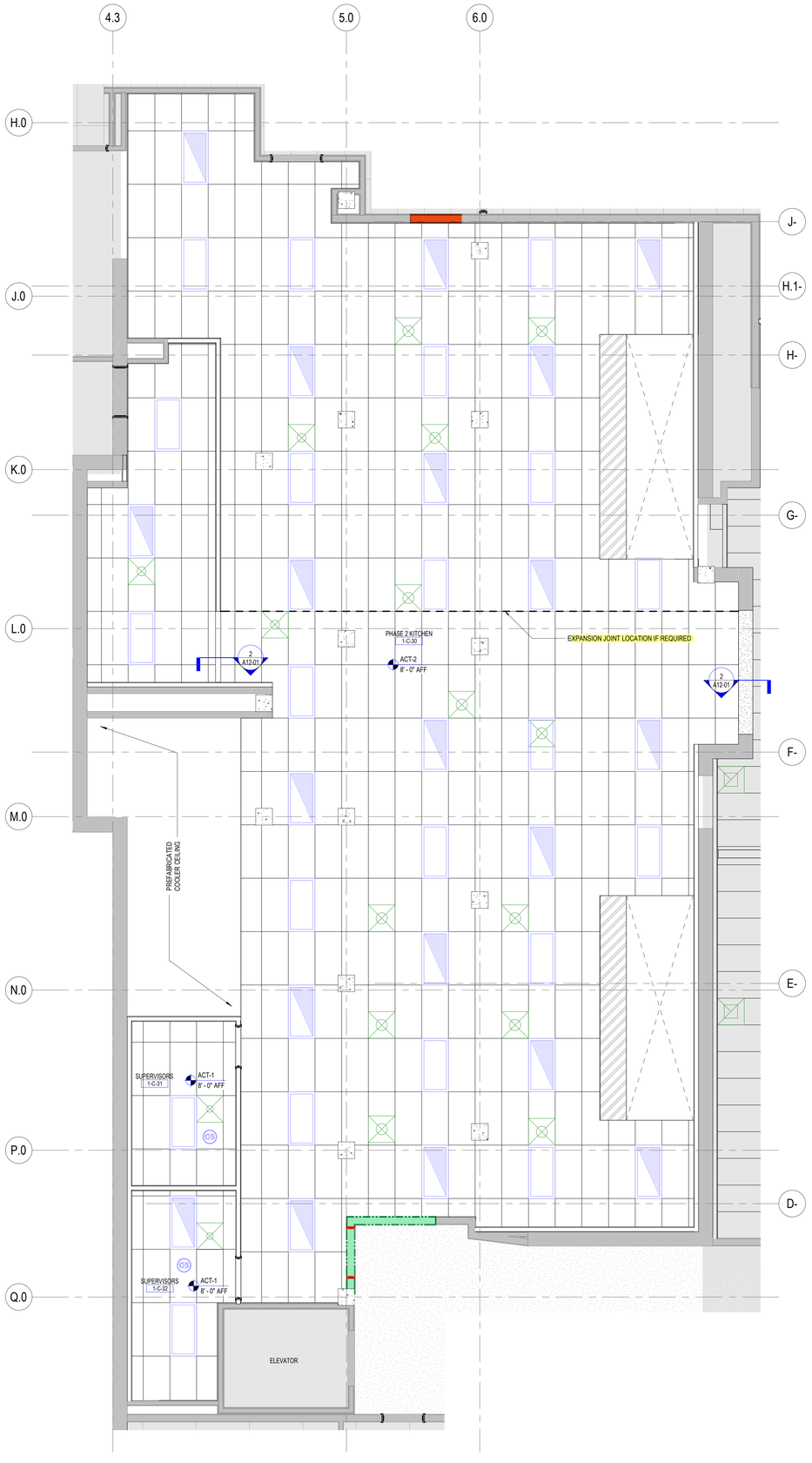
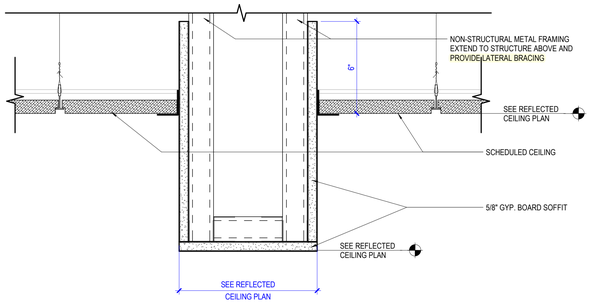


1 REFLECTED CEILING PLAN LEVEL 01- PHASE 2
SCALE 1/4" = 1'-0"



2 SECTION DETAIL @ GYP BULKHEAD
SCALE 3" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE 8'-0", UNO.
2. ALL CEILINGS TO BE TYPE ACT-1, UNO.
3. GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED WITH P-2, UNO.
4. OPEN-TO-STRUCTURE AREAS (NO CEILING), INCLUDING OVERHEAD MEPFP SYSTEMS, SHALL BE PAINTED WITH P-2, UNO.
5. CENTER FIXTURES, DEVICES AND OTHER ELEMENTS IN ACOUSTIC PANEL(S) IN BOTH DIRECTIONS, UNLESS OTHERWISE NOTED.
6. LIGHTING FIXTURES ARE DIMENSIONED TO CENTER OF FIXTURE, UNLESS NOTED OTHERWISE.
7. CEILING DEVICES SHOWN IN THESE PLANS ARE TO BE USED FOR COORDINATION ONLY. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE SCHEDULE NOTING TYPE, QUANTITY AND CIRCUITING OF DEVICES IN CEILINGS, AND TO MECHANICAL DRAWINGS FOR AIR TERMINALS INFORMATION. NOTIFY ARCHITECT/ENGINEER OF OMISSIONS AND INCONSISTENCIES.
8. SMALLER ELECTRICAL FIXTURES INCLUDING BUT NOT LIMITED TO: CEILING MOUNTED SMOKE DETECTORS, SPEAKER, EXIT SIGNAGE, FIRE ALARM DEVISES, STROBES, HORNS AND WIFI ANTENNAE, TRANSMITTERS OR RECEIVERS ARE NOT SHOWN ON THESE DRAWINGS. SEE ELECTRICAL AND TELECOM DRAWINGS FOR THE LOCATION OF THESE ITEMS.
9. LAY DIRECTIONAL PATTERN CEILING PANEL OR TILE ONE WAY WITH PATTERN AS INDICATED BY ARCHITECT UNLESS OTHERWISE NOTED.
10. LOCATE ACCESS PANELS AS INDICATED ON THE DRAWINGS. FOR ACCESS PANELS NOT SHOWN BUT REQUIRED BY PROVISIONS OF THE CONTRACT DOCUMENTS, LOCATE IN ACCORDANCE WITH APPLICABLE CODES. FIELD VERIFY LOCATION OF ACCESS PANELS, AND MARK ON SLAB FOR ARCHITECT'S REVIEW. ENSURE ALL ABOVE-CEILING MEPFP DEVICES WHICH MAY REQUIRE SERVICE OR MAINTENANCE ARE ACCESSIBLE.
11. ALL VISIBLE SURFACES, DEVICES AND EQUIPMENT INSIDE DUCTWORK OR SUPPLY/RETURN REGISTERS SHALL BE PAINTED NON-SPECULAR BLACK.
12. CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLE, CONDUIT, LIGHTS, MECHANICAL EQUIPMENT OR OTHER CONSTRUCTION. SUPPORT THESE ITEMS INDEPENDENTLY FROM THE STRUCTURE ABOVE.
13. DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK..

LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION (CONTRACTOR TO VERIFY AND LOCATE ALL EXISTING AND NEW FIRE PARTITIONS PRIOR TO CONSTRUCTION. FIRE RATED PARTITIONS ARE NOT SHOWN ON THIS PLAN FOR CLARITY. REFERENCE SHEETS 10-01 AND 12-01 FOR FIRE RATED PARTITION LOCATIONS)
- NOT IN CONTRACT
- GYPSUM BOARD CEILING / SOFFIT
- ACOUSTICAL PANEL CEILING
- LIGHT FIXTURE (REFER ELECTRICAL DWG)
- EM LIGHT FIXTURE (REFER ELECTRICAL DWG)
- MECHANICAL AIR TERMINAL (REFER MECHANICAL DWG)
- EXIT SIGN
  - SHADED SIDE(S) INDICATE(S) LIT SIGN FACE
  - SYMBOL ARROWS INDICATE CHEVRON DIRECTIONAL ARROWS ON SIGN FACE(S)
- XXX.X / T' - 0" AFF — CEILING MATERIAL CODE (REFER TO FINISH SCHEDULES); CEILING HEIGHT
- EX — EXISTING FIXTURE TO REMAIN
- ETR — EXISTING TO REMAIN
- ER — EXISTING FIXTURE TO BE RELOCATED
- WT# # — WINDOW TREATMENT - REFER TO FINISH SCHEDULE AND LEGEND
- CJ — GYPSUM BOARD CONTROL JOINT

REFLECTED CEILING PLAN KEYNOTES

<<< Indicates Sheet Keynote on Plan

FIRE & SMOKE RATING LEGEND

- 90 — DOOR FIRE RATING
- PARTITION FIRE RATING
- PARTITION SMOKE REQUIREMENT
- EXISTING CONSTRUCTION TO REMAIN
- NEW NON-RATED CONSTRUCTION
- EXISTING 1HR FIRE BARRIER
- EXISTING 2HR FIRE BARRIER
- NEW 1HR RATED FIRE BARRIER
- NEW 2HR RATED FIRE BARRIER
- EXISTING 1HR RATED SMOKE BARRIER
- EXISTING SMOKE PARTITION
- NEW 1HR RATED SMOKE BARRIER
- NEW SMOKE PARTITION
- RATED DOOR (RED)
- NON-RATED DOOR
- EXISTING DOOR

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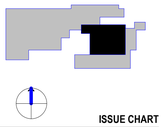

ISSUE CHART

MARK	ISSUE	DATE

Job Number 162433.000

TITLE

REFLECTED CEILING PLAN LEVEL 01 - PHASE 2

SHEET NUMBER

A12-01

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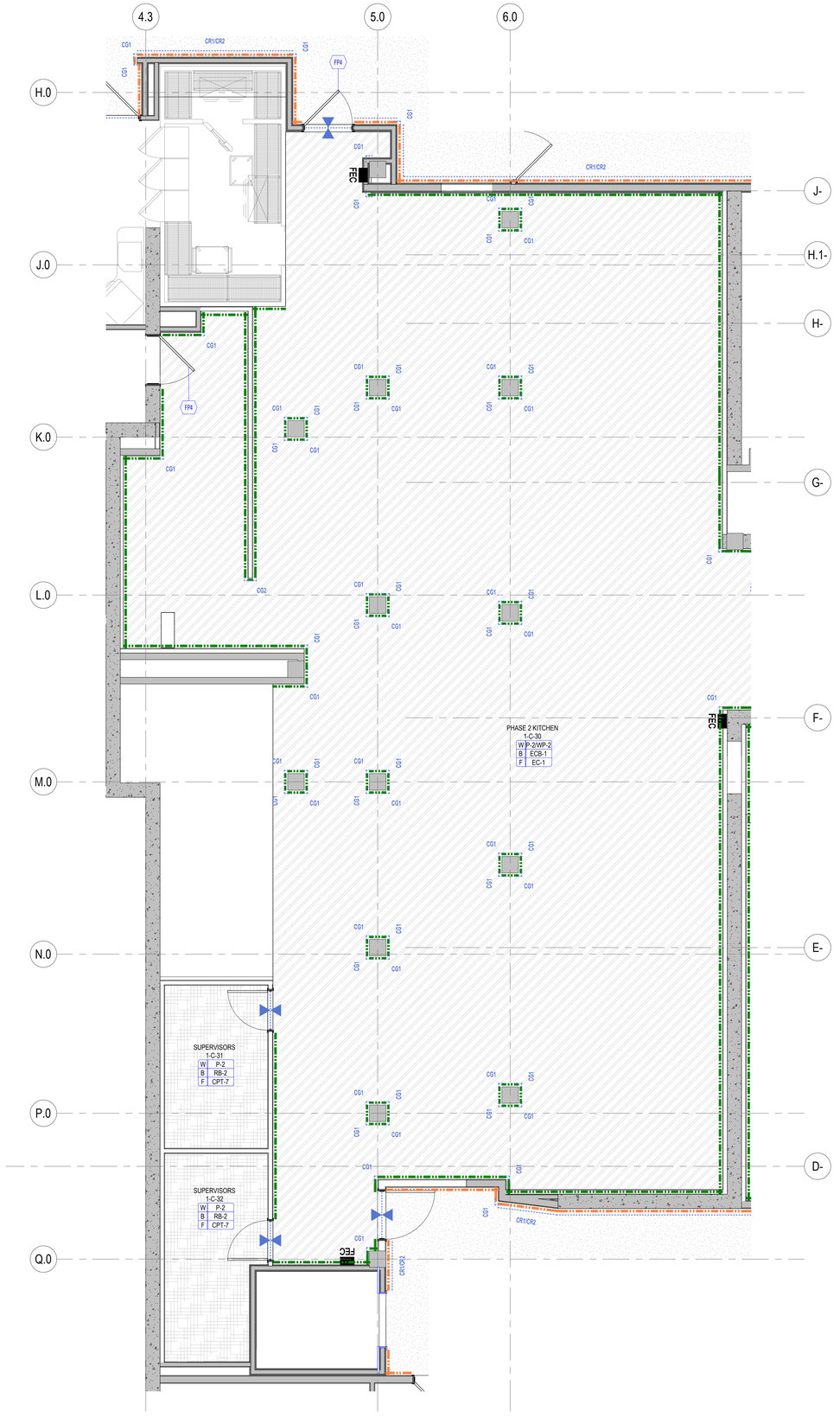

1 FINISH PLAN LEVEL 01 - PHASE 2
SCALE 1/4" = 1'-0"

INTERIOR FINISH PLAN GENERAL NOTES

1. REFER TO INTERIOR FINISH LEGEND IN A64-01 SHEET FOR INFORMATION.
2. SEE A50 SERIES FOR CASEWORK INFORMATION.
3. ALL FINISHES INSIDE COAT AND STORAGE CLOSETS SHALL BE CONSISTENT WITH THE ADJACENT ROOM FINISHES, UNO. FLOOR COVERINGS SHALL CONTINUE FROM ADJACENT ROOM INTO CLOSETS
4. PROVIDE A FINISH AT ALL AREAS THAT ARE EXPOSED BEHIND MILLWORK, FILE CABINETS, PANELING, ETC. DUE TO REVEALS, JOINTS, END CONDITIONS, ETC.
5. SEE ELEVATIONS FOR ADDITIONAL FINISH INFORMATION.

BASE:

6. NEW WALL BASE SHALL BE INSTALLED ON ALL NEW, EXISTING WALLS AND COLUMNS, EXPOSED CONCRETE COLUMNS, UNO.
7. RESILIENT WALL BASE AT ALL CARPETED AREAS SHALL BE STRAIGHT BASE, UNO. RESILIENT WALL BASE AT ALL HARD SURFACE FLOORS SHALL BE COVED BASE, UNO. ACCENT PAINT TO RECEIVE MATCHING BASE COLOR.

PAINT:

8. PAINT REVEALS AND FILER PANELS TO MATCH ADJACENT FINISHES, UNO.
9. PAINT EXPOSED ELECTRICAL RACEWAYS TO MATCH THE ADJACENT WALL SURFACE.
10. PROVIDE A PRIME PAINT COAT IN UNEXPOSED AREAS COVERED BY MILLWORK, PANELING, AND OTHER FIXED ARCHITECTURAL ELEMENTS UNO.
11. DOORS TO RECEIVE PAINT SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACE, UNO.
12. HOLLOW METAL FRAMES SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACE, UNO.
13. VISION LITE FRAMES SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACE, UNO.
14. FIRE EXTINGUISHER CABINETS SHALL BE STANDARD WHITE COLOR, UNO.
15. ACCESS PANELS SHALL BE STANDARD WHITE COLOR, UNO. ACCESS PANELS AT ACCENT WALLS TO BE PAINTED TO MATCH ADJACENT WALL.
16. GYPSUM BOARD SOFFITS ABUTTING A WALL SHALL BE PAINTED TO MATCH THE WALL. GYPSUM BOARD SOFFITS NOT ABUTTING A WALL SHALL BE PAINTED TO MATCH ADJACENT GYPSUM BOARD CEILING, IF APPLICABLE. GYPSUM BOARD SOFFITS ADJACENT TO ONLY ACOUSTICAL PANEL CEILINGS SHALL BE PAINTED P-2.

FLOORING:

17. FLOORING TRANSITIONS AT DOORWAYS SHALL BE ALIGNED WITH THE FACE OF THE FRAME'S STOP FACING THE DOOR.
18. REFER TO SHEET A64-01 SHEET FOR ADDITIONAL INFORMATION ON FLOORING TRANSITIONS.

LEGEND

- DENOTES AREA "NOT IN CONTRACT"
- MILLWORK
- WALL PROTECTION

ROOM FINISH TAG

Name
101
W XXX — WALL FINISH
B XXX — WALL BASE FINISH
F XXX — FLOOR FINISH
ACCENT — ACCENT FINISH PRESENT

FINISH TAG LEGEND

MATERIAL APPLICATION
W PNT1 — FINISH KEY

W	WALL	M	MILLWORK
B	BASE	WI	WINDOW
F	FLOOR	P	PARTITION
C	CEILING (RCP ONLY)	EX	EXISTING TO REMAIN

ACCENT FINISHES

- ACCENT PAINT
- WALL PROTECTION 52" AFF
- WALL PROTECTION FULL HEIGHT

FINISH SYMBOLS

- FLOOR FINISH TRANSITION
- CG1 — CORNER GUARD TAG. REFER TO A64 SERIES FOR INFORMATION.
- CG2 — END WALL PROTECTOR TAG. REFER TO A64 SERIES FOR INFORMATION.
- CR1/CR2 — CRASH RAIL TAG, INSTALLED AT 36" AFF AND 52" AFF, REFER TO A64 SERIES FOR INFORMATION.
- MATERIAL PATTERN DIRECTION
- PATTERN START POINT

FINISH PLAN KEYNOTES

<<<	Indicates Sheet Keynote on Plan
FP4	EXISTING DOOR AND FRAME TO BE PREPARED FOR PAINT REFRESH, P-2 UNLESS NOTED OTHERWISE

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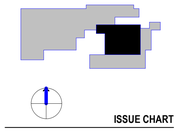

ISSUE CHART

MARK	ISSUE	DATE

Job Number 162433.000

TITLE

FINISH PLAN LEVEL 01 - PHASE 2

SHEET NUMBER

A13-01

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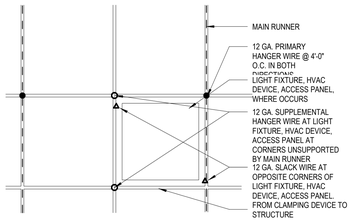
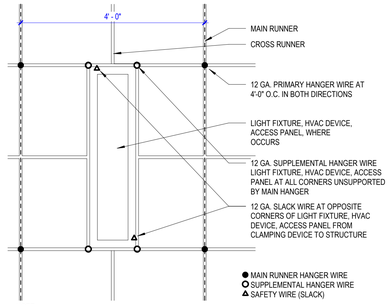


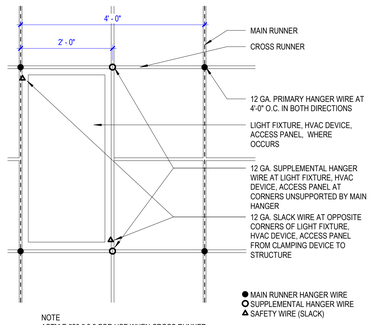
REFERENCE ASTM E 580 5.3.3

14 SUPP. HANGER @ 2X2 ONE SIDE / MAIN RUNNER
SCALE 3/4" = 1'-0"



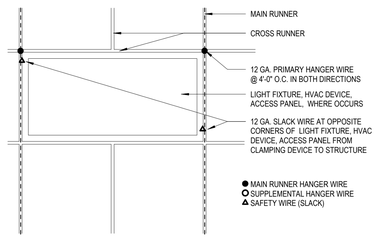
REFERENCE ASTM E 580 5.3.3

16 SUPP. HANGER ODD SIZE, ANY LOC.
SCALE 3/4" = 1'-0"



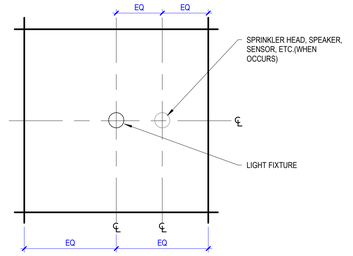
REFERENCE ASTM E 580 5.3.3

17 SUPP. HANGER @ 2X4 / TO MAIN RUNNER
SCALE 3/4" = 1'-0"

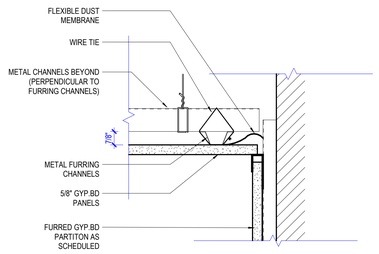


REFERENCE ASTM E 580 5.3.3

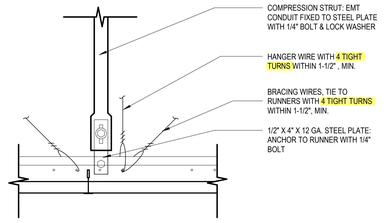
18 SUPP. HANGER @ 2X4 PERP. TO MAIN RUNNER
SCALE 3/4" = 1'-0"



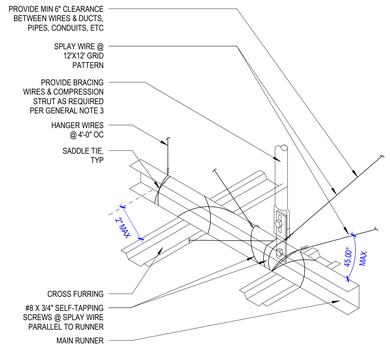
13 TILE WITH LIGHT AND SPRINKLER HEAD
SCALE 1 1/2" = 1'-0"



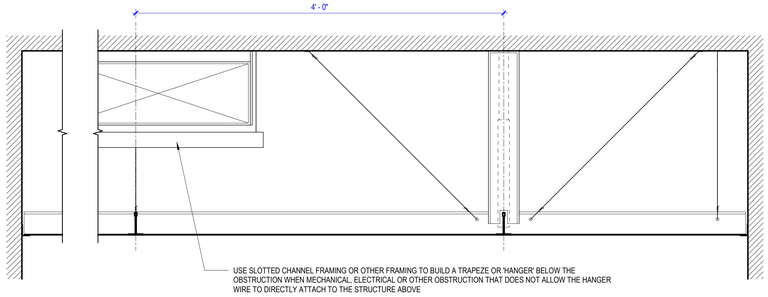
11 EDGE DETAIL STL FRAMED GYP BD CEILING
SCALE 3" = 1'-0"



6 COMPRESSION STRUT AT RUNNER
SCALE 3" = 1'-0"

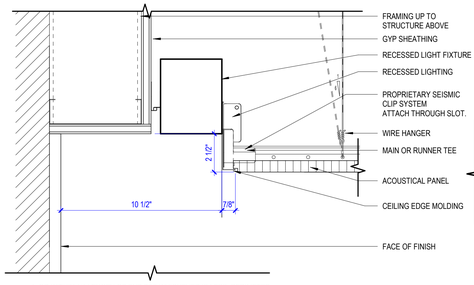


2 MAIN & CROSS RUNNER CONNECTION
SCALE 3" = 1'-0"

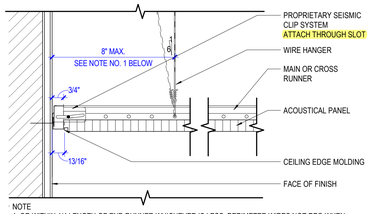


REFERENCE ASTM E 580 5.2.7.4 & 5.2.8

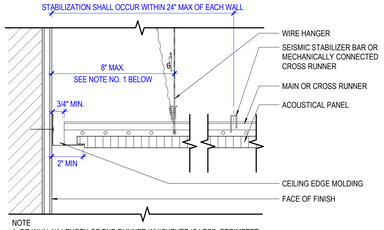
9 SUSPENDED CEILING DETAIL KEY
SCALE 1 1/2" = 1'-0"



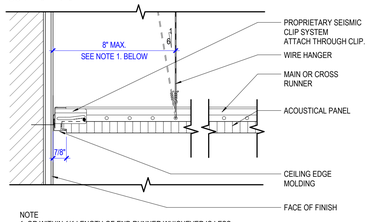
UNATTACHED PERIMETER - AT SOFFIT W/ RECESSED LIGHTING
15
SCALE 3" = 1'-0"



12 PERIM UNATCH'D PROPRIETARY
SCALE 3" = 1'-0"



8 PERIM UNATCH'D
SCALE 3" = 1'-0"



7 PERIM ATCH'D - PROPRIETARY
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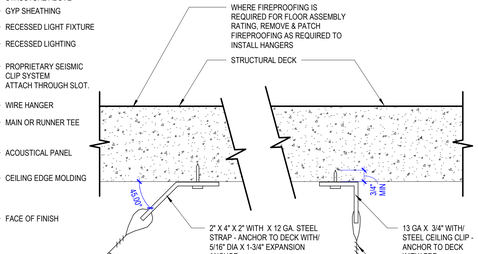
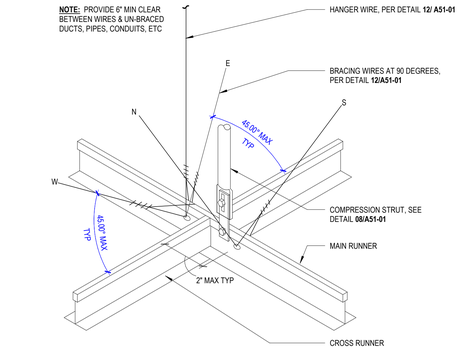
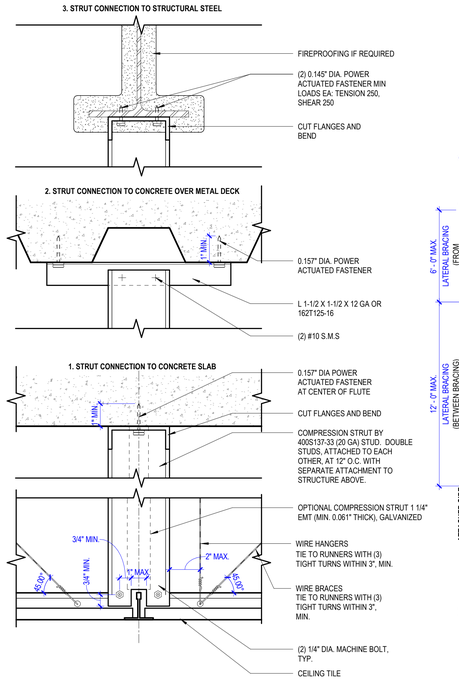


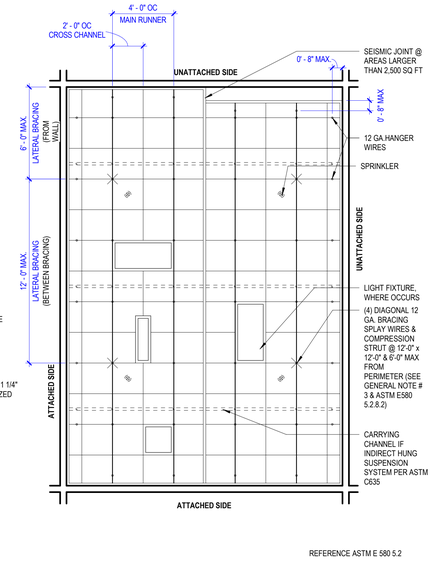
4 WIRE ATTACHMENT AT CONC. DECK
SCALE 3" = 1'-0"



3 LATERAL FORCE DIAGRAM
SCALE 3" = 1'-0"



10 COMPRESSION STRUCT AT RUNNER
SCALE 3" = 1'-0"



REFERENCE ASTM E 580 5.2

5 COMPRESSION STRUT SCHEDULE
SCALE 3" = 1'-0"

1 TYP SUSPENDED ACT CEILING
SCALE 1/4" = 1'-0"

CEILING GENERAL NOTES

1. TYPICAL DETAILS: SEE TYP SUSPENDED GYP BD CEILING & ACOUSTICAL PANEL CEILING DETAILS THIS SHEET.
2. HANGER WIRES: PROVIDE 8 GA HANGER WIRES AT MAX. SPACING OF 4'-0" X 4'-0" ALONG MAIN RUNNERS. DO NOT SPLICE HANGER WIRES.
3. LATERAL FORCE BRACING: WHERE CEILINGS EXTEND TO ALL SIDES OF A SPACE UNINTERRUPTED ON ONE LEVEL NO LATERAL FORCE BRACING IS REQUIRED. WHERE CEILINGS DO NOT EXTEND TO ALL SIDES OF THE SPACE, WHERE PARTITIONS ARE SUPPORTED BY THE SUSPENDED CEILING, AND WHERE THERE ARE CHANGES IN PLANE, AND AS REQUIRED BY ICBO EVALUATION REPORT NO. ER-4071 PROVIDE LATERAL FORCE BRACING AS INDICATED.
4. PROVIDE SETS OF FOUR SPLAYED 12 GA BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
5. PROVIDE BRACING WIRES AT LOCATIONS NOT MORE THAN 1/2 OF THE ABOVE SPACINGS FROM EACH PERIMETER WALL AND AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLAN OF THE CEILING AND SHOULD BE THAT WITH CAUSING THE CEILING TO LIFT.
6. PROVIDE VERTICAL COMPRESSION STRUTS AT ALL LOCATIONS WHERE BRACING WIRES ARE REQUIRED
7. FASTEN HANGER WIRES WITH NOT LESS THAN 4 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
8. OBSTRUCTIONS: SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC. IT IS ACCEPTABLE TO ATTACH LIGHTWEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER WITH A FASTENER APPROVED BY THE STRUCTURAL ENGINEER.
9. PROVIDE TRAPESE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
10. LIGHT FIXTURES: ALL LIGHT FIXTURES ARE TO BE SUPPORTED BY MAIN RUNNERS OR AUXILIARY FRAMING ATTACHED TO MAIN RUNNERS.
11. PROVIDE OVERSIZE RING, SLEEVE OR ADAPTER TO ALLOW FOR A MINIMUM OF 1" FREE MOVEMENT ALL AROUND SPRINKLER HEAD.

DESIGN CRITERIA:
CODE: 2021 IBC
SEISMIC DESIGN CATEGORY X
OCCUPANCY CATEGORY II = 1.0
SEISMIC SPLAY WIRE GROUPS BRACING
L/R RATIO OF 200 MAXIMUM

THE CRITERIA USED AND DESIGN OF THE STRUT IS TO BE VERIFIED FOR EACH PROJECT. THE SEISMIC STRUT IS TO BE ENGINEERED TO COMPLY WITH CODE REQUIREMENTS FOR THE PROJECT WHERE THEY MAY BE DIFFERENT THAN THE DESIGN INDICATED IN THIS DETAIL.

STRUTS AND BRACING WIRES ARE TO BE PROVIDED AND ENGINEERED WHERE PARTITIONS ARE INDICATED TO BE ATTACHED TO AND BRACED BY THE CEILING SYSTEM

EMT	MAX. HEIGHT
SIZE	ft - in
1/2"	4'-0"
3/4"	5'-2"
1"	6'-6"
1 1/4"	8'-6"
1 1/2"	9'-11"

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Nashville, Tennessee 37209
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AHBL
1200 6th Ave #1620, Seattle, WA 98101
STRUCTURAL
PCS
1011 Western Avenue, Suite 810
Seattle WA 98104
CONTRACTOR
ABBOTT CONSTRUCTION
3408 1st Ave S,
Seattle, WA 98134
PLUMBING
MACDONALD MILLER
1004 Madison St,
Seattle, WA 98104
MECHANICAL
MACDONALD MILLER
1004 Madison St,
Seattle, WA 98104
ELECTRICAL
EBD SERVICES
14900 Interurban Ave S. #143
Seattle, WA 98168
PROJECT MNGR
TURNER & TOWNSEND
920 Fifth Avenue, Seattle, WA 98104

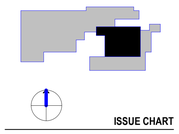
6712 REGISTERED ARCHITECT
BRAD HINTHORNE
STATE OF WASHINGTON

PHASE 2 CONSTRUCTION DOCUMENTS 07.25.2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital
MULTICARE

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 162433.000

TITLE
TYPICAL SUSPENDED CEILING DETAILS

SHEET NUMBER
A51-10

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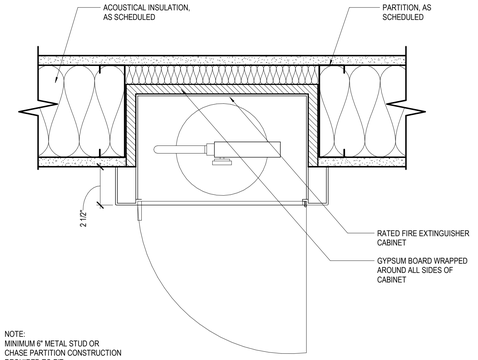
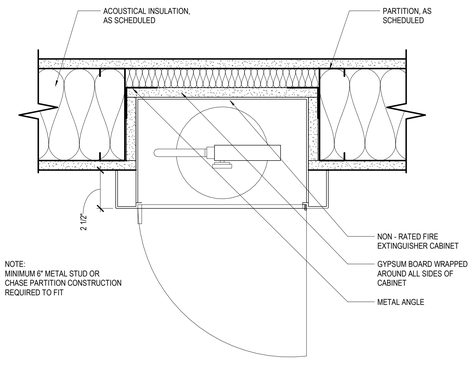


AT 1 OR 2 HOUR PARTITION WITH 45, 60 OR 90 MINUTE OPENING REQUIREMENT

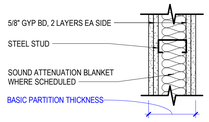
9 RATED SEMI RECESSED FIRE EXTINGUISHER

SCALE 3" = 1'-0"



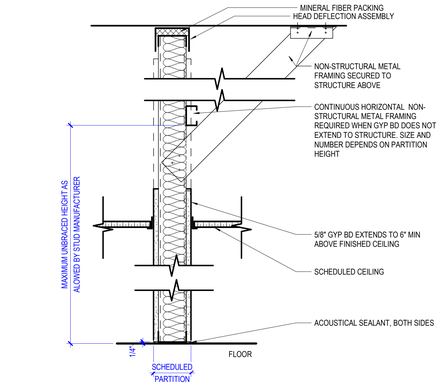
8 NON-RATED SEMI RECESSED FIRE EXTINGUISHER

SCALE 3" = 1'-0"



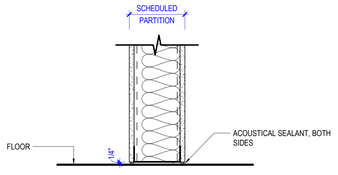
C

	C1_	STC	C2_	STC	C3_	STC	C4_	STC	C5_	STC	C6_	STC	C7_	STC	C8_	STC
2-HR RATED WITH GYP BD TO STRUCTURE ABOVE	C10	/	C20	55	C30	48	C40	56	C50	/	C60	/	C70	/	C80	57
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	C11	/	C21	55	C31	48	C41	56	C51	/	C61	/	C71	/	C81	57
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"	
BASIC PARTITION THICKNESS	5"		5"		6 1/8"		6 1/8"		6 1/2"		6 1/2"		8 1/2"		8 1/2"	
ACOUSTICAL INSULATION	-		YES		-		YES		-		YES		-		YES	
FIRE TEST NUMBER	UL DES U411		UL DES U411		UL DES U411		UL DES U411		UL DES U411		UL DES U411		UL DES U411		UL DES U411	



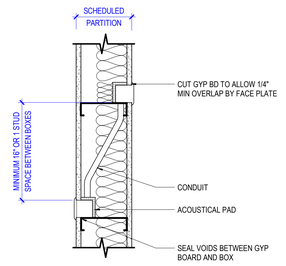
7 PARTITION SECTION

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



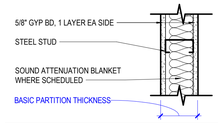
6 ACOUSTICAL PARTITION @ FLOOR

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



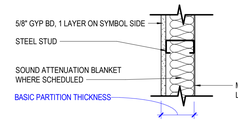
5 ACOUSTICAL PARTITION PLAN DETAIL

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



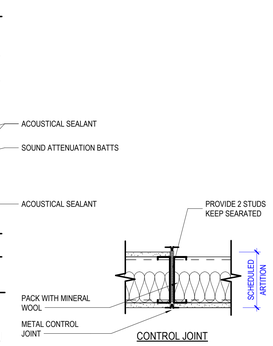
A

	A1_	STC	A2_	STC	A3_	STC	A4_	STC	A5_	STC	A6_	STC	A7_	STC	A8_	STC
1-HR RATED WITH GYP BD TO STRUCTURE ABOVE			A20	47	A30	40	A40	47	A50	/	A60	/	A70	/	A80	49
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	A11	/	A21	47	A31	40	A41	47	A51	/	A61	/	A71	/	A81	49
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	A12	/	A22		A32		A42		A52	/	A62	/	A72	/	A82	
NON-RATED PARTIAL HEIGHT WALL	A13	/	A23		A33		A43		A53	/	A63	/	A73	/	A83	
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"	
BASIC PARTITION THICKNESS	3 3/4"		3 3/4"		4 7/8"		4 7/8"		5 1/4"		5 1/4"		7 1/4"		7 1/4"	
ACOUSTICAL INSULATION	-		YES		-		YES		-		YES		-		YES	
FIRE TEST NUMBER	-		UL DES U494		UL DES U465		UL DES U465		UL DES U465		UL DES U465		UL DES U465		UL DES U465	



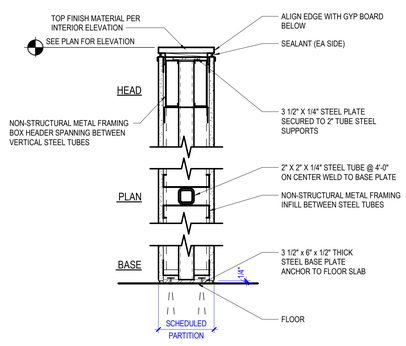
D

	D1_	STC	D2_	STC	D3_	STC	D4_	STC	D5_	STC	D6_	STC	D7_	STC	D8_	STC	D9_	STC
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	D11	/	D21	/	D31	/	D41	34	D51	/	D61	/	D71	/	D81	37	D91	/
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	D12	/	D22	/	D32	/	D42	/	D52	/	D62	/	D72	/	D82	/	D92	/
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	D13	/	D23	/	D33	/	D43	/	D53	/	D63	/	D73	/	D83	/	D93	/
STUD SIZE	2 1/2"		2 1/2"		3 5/8"		3 5/8"		4"		4"		6"		6"		1 1/2"	
BASIC PARTITION THICKNESS	3 1/8"		3 1/8"		4 1/4"		4 1/4"		4 5/8"		4 5/8"		6 5/8"		6 5/8"		2 1/8"	
ACOUSTICAL INSULATION	-		YES		-		YES		-		YES		-		YES		YES	



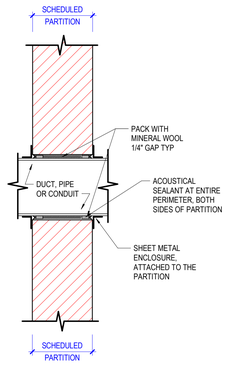
4 ACOUSTICAL PARTITION PLAN DETAILS

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



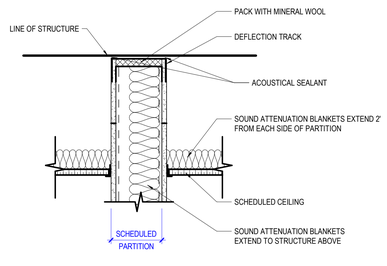
3 PARTIAL HEIGHT PARTITION SECTION

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



2 ACOUSTICAL SLEEVE SECTION

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



1 ACOUSTICAL PARTITION @ CEILING

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

INTERIOR PARTITION CHARTS GENERAL NOTES

PARTITION TYPE GENERAL NOTES

1. NOT ALL PARTITION TYPES SHOWN ARE UTILIZED.
2. PARTITION TYPE, FIRE-RESISTANCE RATING AND STC RATING INDICATED FOR A GIVEN PARTITION ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF THAT PARTITION UNLESS OTHERWISE NOTED.
3. CONSTRUCT FIRE-RESISTANCE RATED PARTITIONS BEFORE NON-RATED. ABUT NON-RATED PARTITIONS INTO RATED PARTITIONS.
4. ISOLATE NON-LOAD-BEARING FRAMING FROM STRUCTURAL ELEMENTS TO PREVENT THE TRANSFER OF LOAD TO PARTITION FRAMING. UNLESS OTHERWISE NOTED, STOP VERTICAL STUDS ½" BELOW TOP OF CEILING RUNNER (TOP TRACK) TO ALLOW FOR VERTICAL DEFLECTION. DO NOT ATTACH STUDS OR GYPSUM BOARD TO CEILING RUNNER (TOP TRACK). THIS MAY ALSO BE ACHIEVED BY UTILIZING PROPRIETARY SYSTEMS DESCRIBED IN THE SPECIFICATIONS.
5. PROVIDE DOUBLE-STUD FRAMING AT JAMBS OF ALL PARTITION OPENINGS.
6. WHERE CONTROL JOINTS ARE REQUIRED BASED UPON SPECIFIED FREQUENCY, AND ARE NOT SHOWN ON INTERIOR ELEVATIONS, LOCATE CONTROL JOINTS ON BOTH STRIKE AND HINGE SIDES OF DOORS. WHEN PROVIDING CONTROL JOINTS AT DOORS DOES NOT MEET THE SPECIFIED FREQUENCY, PROVIDE DOUBLE-STUD CONTROL JOINT CONSTRUCTION AND VERIFY LOCATION WITH THE ARCHITECT PRIOR TO PROCEEDING.
7. PROVIDE SHEET METAL BLOCKING/BACKING FOR WALL MOUNTED ITEMS SPECIFIED OR SHOWN IN THE DRAWINGS..

FIRE-RESISTANCE RATED PARTITIONS (THE FOLLOWING NOTES APPLY TO ALL PARTITIONS INDICATED TO HAVE A FIRE-RESISTANCE RATING.)

1. PROVIDE PERMANENTLY STENCILED IDENTIFICATION ABOVE THE CEILING WITHIN 15 FEET OF EACH END OF THE PARTITION AND AT INTERVALS NOT EXCEEDING 30 FEET HORIZONTALLY ALONG THE LENGTH OF THE PARTITION. THE IDENTIFICATION TEXT SHALL BE A MINIMUM 3" HIGH WITH A MINIMUM OF 3/8" STROKE IN A CONTRASTING COLOR AND READ AS FOLLOWS: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS.
2. FIRE-RESISTANCE RATED PARTITIONS SHALL BE CONSTRUCTED FROM THE TOP OF NON-FINISHED FLOOR TO THE UNDERSIDE OF THE FLOOR OR ROOF STRUCTURE ABOVE.
3. THROUGH-PENETRATIONS IN FIRE-RESISTANCE RATED PARTITIONS SHALL BE SEALED WITH MATERIALS AND ASSEMBLIES NECESSARY TO MAINTAIN THE REQUIRED FIRE-RESISTANCE RATING.

ACOUSTICAL PARTITIONS (THE FOLLOWING NOTES APPLY TO ALL PARTITIONS DESIGNATED TO HAVE EITHER SOUND ATTENUATION BLANKETS OR A SOUND TRANSMISSION CLASS (STC) RATING.)

1. SEAL PARTITIONS AT ENTIRE PERIMETER WITH NON-HARDENING ACOUSTICAL SEALANT.
2. SOUND ATTENUATION BLANKETS ARE TO FILL THE DEPTH OF THE FRAMING CAVITY UNLESS OTHERWISE NOTED.
3. DO NOT COMPRESS SOUND ATTENUATION BLANKETS AT BLOCKING OR RECESSED ITEMS.
4. SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS WITH NON-HARDENING ACOUSTICAL SEALANT.
5. SEAL ALL CONDUIT, STRUCTURAL, DUCT AND PIPE PENETRATIONS WITH NON-HARDENING ACOUSTICAL SEALANT.
6. PROVIDE ACOUSTICAL PADS AROUND ANY ITEMS PENETRATING THE FACE OF PARTITION, INCLUDING ELECTRICAL AND TECHNOLOGY JUNCTION OR DEVICE BOXES.
7. ELECTRICAL/TECHNOLOGY BOXES ON OPPOSITE SIDES OF A PARTITION ARE TO BE SEPARATED BY A MINIMUM OF 1 STUD SPACE.

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EBD SERVICES
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Seattle, WA 98168

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920 Fifth Avenue, Seattle, WA 98104

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REGISTERED ARCHITECT
BRAD HINTHORNE
STATE OF WASHINGTON

PHASE 2 CONSTRUCTION DOCUMENTS 07.25.2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
Job Number		162433.000

TITLE

PARTITION TYPE CHARTS & DETAILS

SHEET NUMBER

A61-01

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DOOR SCHEDULE - PHASE 2

		DOOR						FRAME							
		SIZE									DETAILS		FIRE	HARDWARE SET	
DOOR NO	ROOM NAME	W	HT	THK	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	RATING	NUMBER	REMARKS
1-C-16	PHASE 2 KITCHEN	3' - 8"	7' - 0"	0' - 1 3/4"	F	HM	P-2	1	HM	P-2	1/A62-01	2/A62-01	20	02W	CR, AUTO OPERATOR: NABCO GT8500
1-C-31	SUPERVISORS	3' - 0"	7' - 0"	0' - 1 3/4"	F	EX	P-2	EX	EX	P-2	1/A62-01	2/A62-01		00.1	OFFICE LOCK
1-C-32	SUPERVISORS	3' - 0"	7' - 0"	0' - 1 3/4"	F	EX	P-2	EX	EX	P-2	1/A62-01	2/A62-01		00.1	OFFICE LOCK

DOOR HARDWARE SETS

SET # 00.1
DOORS 1-C-31 1-C-32 1-E-13.1 1-E-13.2

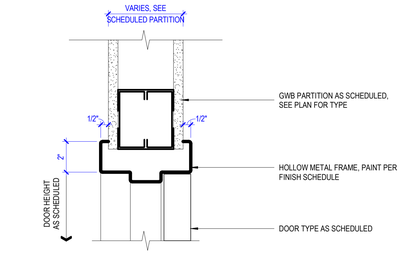
1 EA EXISTING HARDWARE TO REMAIN

SET # 02W
DOORS 1-C-1 / 1-C-16 / 1-E-56 / 1-E-62

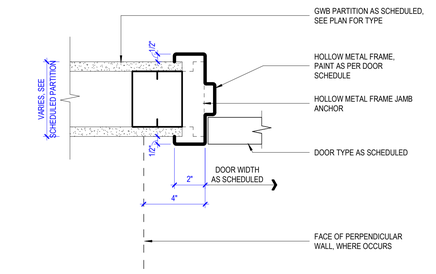
3 EA	HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1 EA	BEST SFIC	BEST SFIC CYLINDER & CORE PROVIDED BY OWNER		BES
1 EA	STOREROOM LOCK	ND80JD TLR	626	SCH
1 EA	ELECTRIC STRIKE	6400 FSE	630	VON
1 EA	ACTUATOR, TOUCH	8310-856T	630	LCN
1 EA	ARMOR PLATE	8400 34" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

AUTOMATIC OPERATOR - PROVIDED BY DIVISION 28
POWER SUPPLY - PROVIDED BY DIVISION 28
CARD READER - PROVIDED BY DIVISION 28
DOOR CONTACT - PROVIDED BY DIVISION 28

DOOR NOMRALLY CLOSED AND LOCKED. VALID CREDENTIAL WILL UNLOCK ELECTRIC STRIKE AND ENABLE ACTUATORS. ACTUATOR WILL ACTIVATE AUTOMATIC OPERATOR. DOOR CONTACT (DC) WILL SIGNAL MONITORING SYSTEM. ELECTRIC STRIKE WILL LOCK UPON LOSS OF POWER. FREE EGRESS AT ALL TIMES.



1 HM - HEAD DETAIL
SCALE 3" = 1'-0"

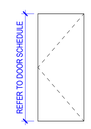


2 HM - JAMB DETAIL
SCALE 3" = 1'-0"

DOOR SCHEDULE GENERAL NOTES

1. GLAZING IN FIRE RESISTANCE RATED DOORS SHALL MATCH THE FIRE RESISTANCE RATING OF THE DOOR.
2. ALL DOORS TO HAVE BOXED HEADERS UNLESS STEEL CHANNELS ARE INDICATED IN THE REMARKS COLUMN OF THE DOOR SCHEDULE OR UNLESS OTHERWISE INDICATED BY HEAD DETAIL.
3. GLAZING IN DOORS SHALL BE CLEAR TEMPERED UNLESS NOTED OTHERWISE.

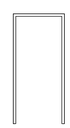
DOOR TYPES



FLUSH SINGLE

F

DOOR FRAME TYPES



HM FRAME

1

DOOR SCHEDULE REMARKS

1. PROVIDE FIRE LABEL ON HINGE SIDE OF DOOR AND FRAME
2. CARD READER ACCESS DOOR
3. AUTO OPENER WITH CARD READER AND PUSH BUTTON ACTIVATION
4. CURTRON POLAR-PRO SWINGING IMPACT DOOR IN FLEXIBLE PVC (OR EQ) PROVIDE GYP CASED OPENING WITH 60" EDGE GUARD EACH JAMB
5. RELOCATED EXISTING DOOR - SEE DOOR TAG FOR NEW LOCATION
6. EXISTING DOOR AND FRAME - REPAIR ANY DAMAGE AND PAINT AS SPECIFIED - DO NOT PAINT OVER FIRE LABELS WHERE APPLICABLE
7. 20-MINUTE SMOKE BARRIER DOOR
8. 90-MINUTE FIRE BARRIER DOOR

DOOR SCHEDULE ABBREVIATIONS

FACT	FACTORY FINISHED
GL-1	TEMPERED GLASS PANEL
HM	HOLLOW METAL
P-2	PAINTED FINISH (REF. FINISH SCHEDULE)
SR	SMOKE RESISTANT

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MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
Job Number	162433.000	

TITLE

DOOR SCHEDULE

SHEET NUMBER

A62-01

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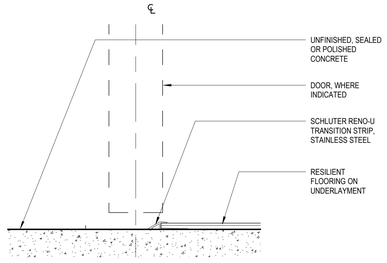
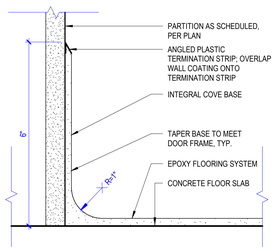


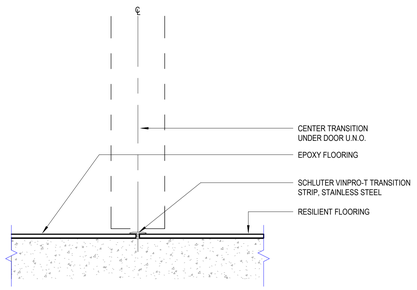
3 RESILIENT FLOOR TO UNFINISHED, SEALED OR POLISHED CONCRETE FLOORING

SCALE 6" = 1'-0"



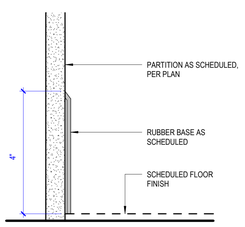
5 EPOXY BASE

SCALE 6" = 1'-0"



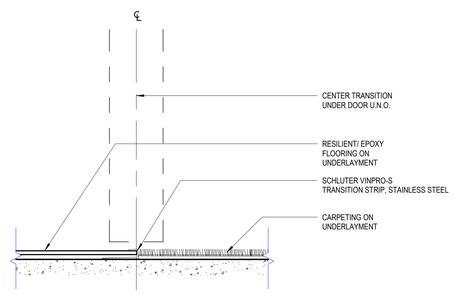
2 RESILIENT SHEET TO EPOXY FLOORING

SCALE 6" = 1'-0"



4 RUBBER BASE

SCALE 6" = 1'-0"



1 CARPET TO RESILIENT SHEET / EPOXY FLOORING

SCALE 6" = 1'-0"

FINISH LEGEND

TAG	LOCATION	TYPE	MFR	STYLE	COLOR/FINISH	SIZE	COMMENTS
CARPET							
CPT-1A		CARPET	MOHAWK GROUP	FORWARD VISION GT135	936 TECHNIQUE	24" X 24"	ASHLAR INSTALL PATTERN
CPT-1B		CARPET	MOHAWK GROUP	BRAIN POWER GT136	936 TECHNIQUE	24" X 24"	ASHLAR INSTALL PATTERN
CPT-2A		CARPET	MOHAWK GROUP	FORWARD VISION GT135	138 CRAFTINESS	24" X 24"	ASHLAR INSTALL PATTERN
CPT-2B		CARPET	MOHAWK GROUP	BRAIN POWER GT136	138 CRAFTINESS	24" X 24"	ASHLAR INSTALL PATTERN
CPT-3A	PALLIATIVE CARE	CARPET	MOHAWK GROUP	FORWARD VISION GT135	659 WORKMANSHIP	24" X 24"	ASHLAR INSTALL PATTERN
CPT-3B		CARPET	MOHAWK GROUP	BRAIN POWER GT136	659 WORKMANSHIP	24" X 24"	ASHLAR INSTALL PATTERN
CPT-4A		CARPET	MOHAWK GROUP	FORWARD VISION GT135	989 SKILL	24" X 24"	ASHLAR INSTALL PATTERN
CPT-4B		CARPET	MOHAWK GROUP	BRAIN POWER GT136	989 SKILL	24" X 24"	ASHLAR INSTALL PATTERN
CPT-5	SECURITY	CARPET	SHAW CONTRACT	SPACE WORX PRIMARY TILE ST123	BROWN BARK 17500	24" X 24"	ASHLAR INSTALL PATTERN
CPT-6		CARPET	SHAW CONTRACT	SPACE WORX PRIMARY TILE ST123	KHAKI 17761	24" X 24"	ASHLAR INSTALL PATTERN
CPT-7	LEVEL 01 STAFF AREAS	CARPET	SHAW CONTRACT	SPACE WORX PRIMARY TILE ST123	STORM CLOUD 17597	24" X 24"	ASHLAR INSTALL PATTERN
CPT-8		CARPET	SHAW CONTRACT	SPACE WORX PRIMARY TILE ST123	DOVE GREY 17557	24" X 24"	ASHLAR INSTALL PATTERN
EPOXY COATING							
EC-1	KITCHEN	EPOXY COATING	DUR-A-FLEX	POLY-CRETE SLB	GREY		
ECB-1	KITCHEN	EPOXY COATING	DUR-A-FLEX	POLY-CRETE SLB	GREY	6"	INTEGRAL COVE BASE
PAINT							
P-1	GENERAL WALL	PAINT	RODDA	CUSTOM MATCH	BARRISTER WHITE #19-05-909		
P-2	GENERAL WALL, CEILING, SOFFITS	PAINT	RODDA	CUSTOM MATCH	BM OC-65 CHANTILLY LACE		LATEX PAINT TYPICAL, EPOXY PAINT AT KITCHEN
P-3	SECONDARY WALL	PAINT	RODDA		POLISHE MARBLE 0274		
P-4	GENERAL CEILING WITH P-1 AT WALL	PAINT	RODDA		BUNNY CAKE 0012		
P-5	ACCENT	PAINT	RODDA		DREAMING OF THE DAY 0470		
P-6	ACCENT	PAINT	RODDA		NORTH BEACH BLUE 0485		
P-7	ACCENT	PAINT	RODDA		GATES OF GOLD 0997		
P-8	ACCENT	PAINT	RODDA		PERKY YELLOW 0926		
P-9	ACCENT	PAINT	RODDA		NEW FOLIAGE 0400		
P-10	ACCENT	PAINT	RODDA		SHARK FIN 0574		
P-11	ACCENT	PAINT	RODDA		GREYSTOKE 0575		
P-12	ACCENT	PAINT	RODDA		DEEP LAGOON 0507		
P-13	ACCENT	PAINT	RODDA		DOWAGER 0442		
P-14	ACCENT	PAINT	RODDA		FLICKERING FLAME 1005		
P-15	ACCENT	PAINT	RODDA		SUNRISE HEAT 0920		
P-16	ACCENT	PAINT	RODDA		FERN GULLY 0436		
P-17	ACCENT	PAINT	RODDA		SANDY SHOES 0199		
P-18	ACCENT	PAINT	RODDA		RIVER GOD 0450		
PLASTIC LAMINATE							
PLAM-1		PLASTIC LAMINATE	FORMICA		PENCIL WOOD 7747-58		
PLAM-2		PLASTIC LAMINATE	FORMICA		PECAN WOODLINE 5883-58		
PLAM-3		PLASTIC LAMINATE	FORMICA		AMBER CHERRY 7919		
PLAM-4		PLASTIC LAMINATE	FORMICA		THERMO WALNUT 6402-58		
PLAM-5		PLASTIC LAMINATE	FORMICA		WALNUT RIFTWOOD 9283-NG		
PLAM-6		PLASTIC LAMINATE	WILSONART		SLATE GREY D91-60		
PLAM-7		PLASTIC LAMINATE	WILSONART		CRISP LINEN 4942-38		
PLAM-8		PLASTIC LAMINATE	WILSONART		CLASSIC LINEN 4943-38		
PLAM-9		PLASTIC LAMINATE	WILSONART		FLAX LINEN 4990-38		
PLAM-10		PLASTIC LAMINATE	WILSONART		CASUAL LINEN 4944-38		
RUBBER BASE							
RB-1	GENERAL WALL BASE AT RESILIENT FLOORING	RUBBER BASE	JOHNSONITE	COVE BASE	TO MATCH ADJACENT WALL COLOR	4"	
RB-2	GENERAL WALL BASE AT CARPET	RUBBER BASE	JOHNSONITE	STRAIGHT BASE	TO MATCH ADJACENT WALL COLOR	4"	
SHEET VINYL							
SV-1	LEVEL 01 STAFF AREAS	SHEET VINYL	TEKNOFLOR	FORESTSCAPES HPD	88060 LIGHT FAWN		
SV-2	LEVEL 02 STAFF AREAS	SHEET VINYL	TEKNOFLOR	FORESTSCAPES HPD	88061 TANNED		
SV-3		SHEET VINYL	TEKNOFLOR	FORESTSCAPES HPD	88063 DAWN		
SV-4		SHEET VINYL	TEKNOFLOR	FORESTSCAPES HPD	88057 BUCK		
SV-5		SHEET VINYL	TEKNOFLOR	CLASSIC CUT HPD	MINK MUFFS CC43108		
SV-6		SHEET VINYL	TEKNOFLOR	CLASSIC CUT HPD	CANDIED WALNUT CC43104		
SV-7		SHEET VINYL	TEKNOFLOR	CLASSIC CUT HPD	TWEEDY CC43105		
SV-8		SHEET VINYL	TEKNOFLOR	CLASSIC CUT HPD	SMARTY PANTS CC43106		
SV-9		SHEET VINYL	BARE NAKED/TEKNOFLOR	CS COLLECTION	LATTE CS5507		
SV-10	BACK OF HOUSE	SHEET VINYL	BARE NAKED/TEKNOFLOR	CS COLLECTION	FRESH MACAROON CS5511		
SV-11		SHEET VINYL	BARE NAKED/TEKNOFLOR	CS COLLECTION	MOCHA CS5512		
SV-12		SHEET VINYL	MANNINGTON	BIOSPEC ARMOR	NORTHSTAR		
SV-13		SHEET VINYL	MANNINGTON	BIOSPEC ARMOR	FROSTWORK		
SV-14		SHEET VINYL	MANNINGTON	BIOSPEC ARMOR	GOLDEN HARVEST		
SOLID SURFACE							
SSF-1		SOLID SURFACE	CORIAN		<varies>		<varies>
SSF-2		SOLID SURFACE	CORIAN		BISQUE		
SSF-3	EVS	SOLID SURFACE	CORIAN		SAVANNAH		
SSF-4		SOLID SURFACE	CORIAN		RAFFIA		
SSF-5	TYPICAL	SOLID SURFACE	CORIAN		DOVE		
SSF-6		SOLID SURFACE	CORIAN		FAWN		INTEGRAL SINKS ONLY
SSF-7		SOLID SURFACE	CORIAN		DEEP MINK		INTEGRAL SINKS ONLY
WALL PROTECTION							
CG-1	PER PLAN	WALL PROTECTION	INPRO	CORNER GUARD	STAINLESS STEEL	3-1/2"x3-1/2"x7'	
CG-2	PER PLAN	WALL PROTECTION	INPRO	END WALL PROTECTION	STAINLESS STEEL	3-1/2"x3-1/2"x7'	
CR-1	CORRIDOR	WALL PROTECTION	ACROVYN	CRASH RAIL BG-10	162 CHARCOAL	4"	INSTALLED AT 36" AFF
CR-2	CORRIDOR	WALL PROTECTION	ACROVYN	CRASH RAIL BG-30	162 CHARCOAL	2-3/4"	INSTALLED AT 52" AFF
WP-1		WALL PROTECTION	INPRO	SUEDE TEXTURE	ANTIQUE WHITE 0104		
WP-2	PER PLAN	WALL PROTECTION	INPRO	SUEDE TEXTURE	FEATHER 0238	8' OR 4'	REFER TO FINISH PLANS FOR EXTENT
WP-3		WALL PROTECTION	INPRO	SUEDE TEXTURE	CHAMOIS 0234		

PAINT NOTES

1. ALL PAINT TO BE INTERIOR ZERO VOC, ALL KITCHEN AREAS TO RECEIVE EPOXY PAINT.
2. GYPSUM BOARD WALLS SHALL HAVE EGGSHELL FINISH, UNLESS NOTED OTHERWISE.
3. GYPSUM BOARD CEILINGS SHALL HAVE FLAT FINISH, UNLESS NOTED OTHERWISE.
4. ALL DOORS AND FRAMES SCHEDULED TO RECEIVE PAINT SHALL HAVE SEMI-GLOSS FINISH, UNLESS NOTED OTHERWISE.

CEILING SYSTEMS

TAG	TYPE	MFR	STYLE	COLOR / FINISH	COMMENT
ACT-1	2'x4' ACOUSTIC CEILING TILE SYSTEM	ARMSTRONG	ULTIMA, BEVELED TEGULAR, PRELUDE 15/16	WHITE/ BLIZZARD WHITE	ACT-1
ACT-2	2'x4' ACOUSTIC CEILING TILE SYSTEM	ARMSTRONG	KITCHEN ZONE, LAY-IN	WHITE/ BLIZZARD WHITE	STEEL SUSPENSION SYSTEM
ACT-3	2'x2' ACOUSTIC CEILING TILE SYSTEM	ARMSTRONG	ULTIMA, BEVELED TEGULAR, PRELUDE 15/16		ACT-3
GYP BD	GYPSUM BOARD CEILING		PAINTED	P-2, UNO	ETR
SST-1	STAINLESS STEEL CEILING CLOSURE PANELS		REFER TO KITCHEN DRAWINGS		AT KITCHEN HOODS

FLOORING TRANSITION MATRIX

	CARPET	EPOXY FLOORING	RESILIENT FLOORING	CONCRETE
CARPET	ABUT FINISHES	SCHLUTER VINPRO-S	SCHLUTER VINPRO-S	-
EPOXY FLOORING	SCHLUTER VINPRO-S	ABUT FINISHES	SCHLUTER VINPRO-T	-
RESILIENT FLOORING	SCHLUTER VINPRO-S	SCHLUTER VINPRO T	ABUT FINISHES	SCHLUTER RENO-U
CONCRETE	-	-	SCHLUTER RENO-U	ABUT FINISHES

FLOORING TRANSITION NOTES:

1. METAL FLOORING TRANSITIONS SHALL BE **CLEAR ANODIZED ALUMINUM OR STAINLESS STEEL** FINISH.
2. COORDINATE HEIGHT OF FLOORING TRANSITION PRODUCTS WITH THICKNESSES OF CORRESPONDING FLOORING ASSEMBLIES.
3. REFER TO FINISH NOTES & PLAN ON A13 SERIES DRAWINGS FOR MORE INFORMATION.

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MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 162433.000

TITLE

FINISH SCHEDULE AND LEGEND

SHEET NUMBER

A64-01

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GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS
ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN **BOTH** ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD (1)	PARTITION LOAD	CONCENTRATED LOADS
ROOF	20 PSF	25 PSF		300#
OPERATING ROOMS AND LABORATORIES	90 PSF	60 PSF		
PATIENT ROOMS	90 PSF	40 PSF	20 PSF	
OFFICE	90 PSF	50 PSF	+15 PSF	2,000#
CORRIDORS (ABOVE 1ST FLR)	90 PSF	80 PSF		2,000#
CORRIDORS (1ST FLR)	90 PSF	100 PSF		2,000#
STAIRS	50 PSF	100 PSF		300#

(1) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.12.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

Pg = 20 PSF = GROUND SNOW LOAD
Pf = 0.7CeCtIsPg = FLAT ROOF SNOW LOAD
Ps = CsPf = SLOPED ROOF SNOW LOAD
I s = 1.2 Ce = 1.0, Ct = 1.0, Cs = VARIES

LATERAL FORCES

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "ENCLOSED, PARTIALLY ENCLOSED, AND OPEN BUILDING OF ALL HEIGHTS PROCEDURE" PER ASCE 7-16.

- EXPOSURE CATEGORY = B
- BASIC WIND SPEED, (3 SEC. GUST), V_{ULT} = 108 MPH
- RISK CATEGORY PER IBC TABLE 1604.5 = IV
- TOPOGRAPHIC FACTOR K_{ZT} = 1.0
- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18

SEISMIC: (ASCE 7-16)

THIS IS A LIMITED SCOPE REMODEL IN WHICH THE EXISTING LATERAL SYSTEM IS NOT BEING MODIFIED. SEISMIC PARAMETERS ARE LISTED FOR USE IN DETERMINING THE DEMANDS ON NON-STRUCTURAL COMPONENTS IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7.

DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 1.014

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE SHALL CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

FOUNDATION DESIGN CRITERIA

ALLOWABLE SOIL BEARING PRESSURE: 1500 PSF (ASSUMED)*

ACTIVE PRESSURE - RESTRAINED: 50 PCF +14H SEISMIC SURCHARGE (ASSUMED)
ACTIVE PRESSURE - UNRESTRAINED: 35 PCF +6H SEISMIC SURCHARGE (ASSUMED)
PASSIVE RESISTANCE: 200 PCF (INCLUDES F.O.S. ≥ 1.5) (ASSUMED)
COEFFICIENT OF FRICTION: .35 (INCLUDES F.O.S. ≥ 1.5) (ASSUMED)
*1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (f'c= 2000 PSI) OR "STRUCTURAL BACKFILL". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 4". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

FREE DRAINING BACKFILL MATERIAL FOR RETAINING & BASEMENT WALLS

A CLEAN, FREE DRAINING, WELL GRADED GRANULAR MATERIAL CONFORMING TO ASTM D2487 GW OR SW WHOSE MAXIMUM PARTICLE SIZE DOES NOT EXCEED 3/4" AND WHOSE FINES CONTENT (MATERIAL PASSING THE NO. 200 SIEVE) DOES NOT EXCEED 5%,

WITH A MAXIMUM DUST RATIO $\frac{\%\text{ PASSING U.S. NO. 200 SIEVE}}{\%\text{ PASSING U.S. NO. 40 SIEVE}}$ = 2/3 MAX.

CONCRETE

CAST-IN-PLACE CONCRETE

CODES, SPECIFICATIONS, AND STANDARDS. CONCRETE WORK SHALL CONFORM TO THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, AND THE STANDARDS AND SPECIFICATIONS THEY REFERENCE. THE CONTRACTOR SHALL OBTAIN AND HAVE READILY AVAILABLE ON SITE THE LATEST VERSION OF THE "ACI MANUAL OF CONCRETE PRACTICE":

ACI:
1. ACI-117 'SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS AND COMMENTARY'.
2. ACI-301 'SPECIFICATIONS FOR CONCRETE CONSTRUCTION'.
3. ACI-302.1 'GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION'.
4. ACI-304 'GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE'.
5. ACI-305.1 'SPECIFICATIONS FOR HOT WEATHER CONCRETING'.
6. ACI-306.1 'STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING'.
7. ACI-308.1 'STANDARD SPECIFICATION FOR CURING CONCRETE'.
8. ACI-309 'GUIDE FOR CONSOLIDATION OF CONCRETE'.
9. ACI-311.4 'GUIDE FOR CONCRETE INSPECTION'.
10. ACI-315 'GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS'.
11. ACI-318 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE'.
12. ACI-506.2 'SPECIFICATION FOR SHOTCRETE'.
13. ACI 347 'GUIDE TO FORMWORK FOR CONCRETE'.
14. ACI 303 'GUIDE TO CAST-IN-PLACE ARCHITECTURAL CONCRETE PRACTICE'.

ASTM:
1. ASTM C33 'STANDARD SPECIFICATION FOR CONCRETE AGGREGATES'.
2. ASTM C94 'STANDARD SPECIFICATION FOR READY-MIX CONCRETE'.
3. ASTM C150 'STANDARD SPECIFICATION FOR PORTLAND CEMENT'.
4. ASTM C260 'STANDARD SPECIFICATION FOR AIR-ENTRAINED ADMIXTURES FOR CONCRETE'.
5. ASTM C309 'STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE'.
6. ASTM C494 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE'.
7. ASTM C595 'STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS'.
8. ASTM C618 'STANDARD SPECIFICATION FOR ..., COAL-ASH...'.
9. ASTM C989 'STANDARD SPECIFICATION FOR SLAG...'.
10. ASTM C1017 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR USE IN PRODUCING FLOWING CONCRETE'.
11. ASTM C1116 'STANDARD SPECIFICATION FOR FIBER-REINFORCED CONCRETE'.
12. ASTM C1218 'STANDARD TEST METHOD FOR WATER-SOLUBLE CHLORIDE IN MORTAR AND CONCRETE'.
13. ASTM C1315 'STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS HAVING SPECIAL PROPERTIES FOR CURING AND SEALING CONCRETE'

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. ALL CONCRETE MIXES SHALL BE NORMAL WEIGHT, UNLESS NOTED OTHERWISE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

LIGHTWEIGHT CONCRETE: SHALL CONFORM TO ASTM C330 AND ACI 211.2. LIGHTWEIGHT CONCRETE SHALL HAVE MAXIMUM DRY DENSITY OF 116 PCF AND A MINIMUM OF 90 PCF AT PLACEMENT.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT OR ASTM C595 - TYPE IL PORTLAND LIMESTONE CEMENT, UNLESS NOTED OTHERWISE. CEMENT IN CONCRETE EXPOSED TO EARTH SHALL BE TYPE II OR TYPE IL-MS.

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

SLAG: GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

SHOTCRETE: SHALL CONFORM TO IBC SECTION 1908.

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLYASH AND SLAG. AT THE CONTRACTORS OPTION FLYASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLYASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE. FOOTING MIXES SHALL CONTAIN NOT LESS THAN **5 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, ALL OTHER MIXES SHALL CONTAIN NOT LESS THAN **5-1/2 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.

ITEM	DESIGN f'c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	NOTES
SLABS ON GRADE - UNO	4000	0.45	100	57 OR 67	
FOUNDATIONS - UNO	3000	0.50	--	57 OR 67	
STEM WALLS AND OTHER WALLS EXPOSED TO EARTH OR WEATHER	4500	0.45	100	57 OR 67	
CONTROLLED DENSITY FILL (CDF)	200	--	--	SAND	1
ALL OTHER CONCRETE	4000	0.50	--	57 OR 67	

CONCRETE MIX NOTES:

1. SAND - CEMENT CONCRETE GROUT.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

COLD WEATHER PLACEMENT:

1. COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
2. NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
3. CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
4. THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
5. NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

CONDITION OF PLACEMENT AND CURING		WALLS & SLABS	FOOTINGS
MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED, DEGREES F.	ABOVE 30° F. 0° TO 30° F. BELOW 0° F.	60° 65° 70°	55° 60° 65°
MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F.		55°	50°
MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F.		50°	40°

HOT OR WINDY WEATHER PLACEMENT

HOT WEATHER IS DEFINED BY ACI 305 AS "ANY COMBINATION OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY, TENDING TO IMPAIR THE QUALITY OF FRESH HARDENED CONCRETE. ACI 305 FIGURE 2.1.5 SHALL BE USED BY THE CONTRACTOR TO ESTIMATE THE RATE OF EVAPORATION. WHEN THE ESTIMATED RATE OF EVAPORATION IS GREATER THAN O.2 PSF/HOUR THE PLACEMENT SHALL BE CONSIDERED A HOT WEATHER PLACEMENT. PRECAUTIONS AGAINST PLASTIC SHRINKAGE CRACKING ARE NECESSARY. PRECAUTIONS TAKEN BY THE CONTRACTOR VARY DEPENDING UPON THE FACTORS ASSOCIATED WITH WATER EVAPORATION AND INCLUDE BUT ARE NOT LIMITED TO:

1. LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.
2. APPLICATION OF AN EVAPORATION RETARDER.
3. USE OF FOG SPRAY.
4. REDUCTION OF POUR SIZE.
5. PLACING CONCRETE AT NIGHT.

CONTROL AND CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. SPECIAL BONDING METHODS PER SECTION 5.3.2.6 SHALL BE SATISFIED BY ITEM 6 BELOW UNLESS OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN ON PLAN OR ADDITIONAL CONSTRUCTION JOINTS ARE REQUIRED SUBMIT PROPOSED JOINTING FOR STRUCTURAL ENGINEERS APPROVAL. PROVIDE CONSTRUCTION JOINTS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS:

1. SLABS ON GRADE: PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AT 16 FEET O.C. MAXIMUM FOR UNEXPOSED SLABS ON GRADE AND 12 FEET O.C. FOR EXPOSED SLABS ON GRADE. COORDINATE JOINTS WITH ARCHITECTURAL DRAWINGS.
2. BONDING AGENT: WHERE BONDING AGENT IS SPECIFICALLY CALLED OUT ON THE STRUCTURAL DRAWINGS USE "WELD CRETE" BY LARSEN PRODUCTS CORPORATION OR PRE-APPROVED EQUAL. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS.
3. ATTACHMENT OF NEW CONCRETE TO EXISTING: WHERE SHOWN, ROUGHEN CONCRETE TO A MINIMUM AMPLITUDE OF 1/4" USING IMPACT HAMMER. REMOVE ALL LOOSE OR DAMAGED CONCRETE, THOROUGHLY FLUSH ALL SURFACES WITH POTABLE WATER, AIR BLAST WITH OIL FREE COMPRESSED AIR TO REMOVE ALL WATER.

EMBEDDED ITEMS

1. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.
2. ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.
3. ALL EMBEDDED STEEL ITEMS EXPOSED TO EARTH SHALL BE GALVANIZED.
4. ALL EMBEDDED STEEL ITEMS EXPOSED TO WEATHER SHALL BE PAINTED UNLESS NOTED AS GALVANIZED. SEE DRAWINGS AND SPECIFICATIONS FOR PAINT, PRIMER, AND GALVANIZING REQUIREMENTS.

CONCRETE CURING AND SEALING

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. SLABS ARE DEFINED AS SLABS ON GRADE, CONCRETE ON METAL DECK, ELEVATED POST-TENSIONED OR MILD REINFORCED DECKS, AND TOPPING SLABS.

ITEM	CONCRETE CURING NOTES
ALL OTHER SLABS	1, (3 OR 4 OR 5)
FORMED SURFACES EXCLUDING FOUNDATIONS	2
SHOTCRETE WALLS	4
ALL OTHER CONCRETE	NONE

CONCRETE CURING NOTES:

1. WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.
2. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS TO ALL FORMED SURFACES IMMEDIATELY AFTER FINAL FORM REMOVAL. NOT REQUIRED IF FORMWORK REMAINS IN PLACE FOR MORE THAN 7 DAYS.
3. PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
4. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS OR ASTM C1315 TYPE 1 CLASS A SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER FINAL FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH ARCHITECTURAL FLOOR COVERINGS AND SEALERS.
5. PROVIDE "ULTRACURE DOT" MOISTURE RETAINING COVER BY MCTECH GROUP, OR APPROVED EQUAL, FOR A MINIMUM OF 14 DAYS.
6. APPLY A SILANE SEALER WITH MINIMUM SOLIDS CONTENT OF 40% PER MANUFACTURER'S RECOMMENDATIONS.

GROUT

NON-SHRINK GROUT: MASTER BUILDERS "MASTERFLOW 928" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING. 28-DAY MINIMUM STRENGTH SHALL BE 7,500 PSI MINIMUM

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

ASTM A615 GRADE 75 WHERE NOTED AS Fy = 75 ON DRAWINGS.

ASTM A615 GRADE 80 WHERE NOTED AS Fy = 80 ON DRAWINGS.

ASTM A615 GRADE 40 WHERE NOTED AS Fy = 40 ON DRAWINGS, HIGHER GRADES MAY NOT BE SUBSTITUTED.

ASTM A706 GRADE 60 FOR ALL MOMENT FRAME HORIZONTAL BEAM BARS, MOMENT FRAME VERTICAL COLUMN BARS, VERTICAL SHEAR WALL BARS, ALL COUPLING BEAM BARS (EXCEPT TIES), AND ALL ANCHORAGE REINFORCING AT BASE PLATES OF STEEL COLUMNS PART OF MOMENT FRAME/BRACED FRAME. PER ACI 318, ASTM A615 GRADE 60 MAY BE SUBSTITUTED FOR THESE MEMBERS IF THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18 KSI, THE RATIO OF ACTUAL ULTIMATE TENSILE STRENGTH TO ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25, AND IF THE ELONGATION OVER AN 8" GAGE LENGTH MEETS THE FOLLOWING:

BAR SIZE	MINIMUM ELONGATION
#3 - #6	14% ≥
#7 - #11	12% ≥
#14, #18	10% ≥

ASTM A706 GRADE 60 FOR ALL WELDED BARS.

DETAIL FABRICATE AND PLACE PER ACI 315 AND ACI 318.

WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064. LAP ONE FULL MESH ON SIDES AND ENDS BUT NOT LESS THAN 8 INCHES. WELDED WIRE REINFORCING SHALL BE SUPPORTED TO WITHSTAND CONCRETE PLACEMENT. PULLING OF MESH INTO PLACE AFTER PLACEMENT IS NOT ALLOWED.

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE, Fy=60 KSI (UNLESS NOTED OTHERWISE)

BAR SIZE	MINIMUM LAP SPLICE LENGTHS ("Ls")		MINIMUM DEVELOPMENT LENGTHS ("Ld")		MINIMUM EMBEDMENT LENGTH FOR STANDARD END HOOKS ("Ldh")
	TOP BARS (1)	OTHER BARS	TOP BARS (1)	OTHER BARS	
#3	2'-0"	1'-6"	1'-6"	1'-3"	0'-6"
#4	2'-8"	2'-0"	2'-0"	1'-7"	0'-6"
#5	3'-4"	2'-7"	2'-7"	2'-0"	0'-8"
#6	4'-0"	3'-1"	3'-1"	2'-4"	0'-10"
#7	5'-10"	4'-6"	4'-6"	3'-6"	1'-0"
#8	6'-8"	5'-2"	5'-2"	3'-11"	1'-3"
#9	7'-6"	5'-10"	5'-10"	4'-6"	1'-6"
#10	8'-6"	6'-6"	6'-6"	5'-0"	1'-9"
#11	9'-5"	7'-3"	7'-3"	5'-7"	2'-1"
#14	MECHANICAL SPLICE REQUIRED		8'-8"	6'-8"	5'-6"
#18	MECHANICAL SPLICE REQUIRED		11'-7"	8'-11"	8'-5"

SPLICE TABLE NOTES:

1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

MECHANICAL COUPLERS: "LENTON" BY NVENT, "CADWELD" BY NVENT, "BAR-LOCK" BY DAYTON SUPERIOR L-SERIES, OR PRE-APPROVED EQUAL. COUPLERS SHALL BE TYPE 2 PER ACI 318 SECTION 18.2.7.1.

WELDED HALF COUPLERS: "LENTON" BY NVENT WELDABLE HALF COUPLERS TYPE C2/C3J OR APPROVED EQUAL.

TERMINATORS: "LENTON" BY NVENT THREADED TERMINATORS TYPE D6 OR APPROVED EQUAL.

FORM SAVERS: "LENTON" BY NVENT THREADED FORM SAVERS TYPE FS OR APPROVED EQUAL.

REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ---------- 3"
EXPOSED TO WEATHER OR EARTH ---------- 2"
TIES ON BEAMS AND COLUMNS ---------- 1-1/2"
WALLS AND SLABS NOT EXPOSED TO WEATHER---- 3/4"

GENERAL REQUIREMENTS

REPAIR MORTAR: SIKA "QUICK VOH" OR PRE-APPROVED EQUAL. TREAT ALL REBAR IN PATCH AREA WITH SIKA "ZINC-RICH 1 PRIMER" OR PRE-APPROVED EQUAL. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS.

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS: SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH REBAR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. INSTALLER SHALL BE QUALIFIED AND TRAINED BY THE MANUFACTURER. HOLES SHALL BE HAMMER DRILLED ONLY (ROTARY DRILLED ONLY AT UNREINFORCED MASONRY - NO HAMMER TOOLS).

SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO BID, ALONG WITH CALCULATIONS THAT SHALL BE STAMPED BY A PROFESSIONAL ENGINEER (LICENSED IN THE STATE OF THE PROJECT) DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

CONCRETE ANCHORS:
- ADHESIVE ANCHORS: HILTI HIT-HY 200 V3 (ICC-ESR-4868), HILTI HIT-RE 500 V3 (ICC-ESR-3814), DEWALT PURE 110+ (ICC-ESR-3298) OR SIMPSON SET-3G (ICC-ESR-4057) OR PRE-APPROVED EQUAL.
  - *CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT TIME OF INSTALLATION.
  - *CONCRETE SHALL BE IN THE TEMPERATURE RANGE AS REQUIRED BY THE CONCRETE MANUFACTURER.
  - *HOLE SHALL BY HAMMER-DRILLED ONLY.
  - *DO NOT INSTALL IN WATER-FILLED HOLES.
  - *INSTALLER OF HORIZONTAL OR UPWARDLY INCLINED (ANY POSITION EXCEPT DIRECTLY DOWNWARD) ANC

NON-AISC CERTIFIED STEEL FABRICATORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO BID.

STEEL ERECTORS

ALL STEEL ERECTION SHALL BE PERFORMED BY AN ERECTOR CERTIFIED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. THE ERECTOR SHALL BE DESIGNATED AN AISC CERTIFIED ERECTOR, CATEGORY CSE AT THE TIME OF BID AND SHALL MAINTAIN THIS CERTIFICATION FOR THE DURATION OF THE PROJECT.

NON-AISC CERTIFIED STEEL ERECTORS MAY BE ACCEPTABLE PROVIDED THEY HAVE A MINIMUM OF (5) YEARS EXPERIENCE ON PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TO STRUCTURAL ENGINEER (2) WEEKS PRIOR TO BID.

STEEL DETAILERS

ALL STEEL DETAILING SHALL BE PERFORMED BY A DETAILER WITH FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO BID.

MATERIAL PROPERTIES

WIDE FLANGE SECTIONS: ASTM A992 (Fy = 50 KSI)

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI) TYP. U.N.O.; ASTM A572 (Fy = 50 KSI) WHERE INDICATED

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE - ASTM A500, GRADE C (Fy = 50 KSI) ROUND - ASTM A500, GRADE C (Fy = 46 KSI)

STRUCTURAL STEEL PIPES: ASTM A53, GRADE B, TYPE E OR S (Fy = 35 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

HIGH-STRENGTH BOLTS: ASTM 3125, GRADE F1852, UNLESS NOTED OTHERWISE, ASTM 3125, GRADE F2280 WHERE INDICATED

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE, ASTM F1554, GRADE 105 WHERE INDICATED.

WIDE FLANGE STRUCTURAL MEMBERS WHICH ARE ASTM A6 GROUP 3 SHAPES WITH FLANGE THICKNESS 1-1/2" THICK AND THICKER, AND ALL ASTM A6 GROUP 4 AND 5 SHAPES AND PLATE THAT IS 1-1/2" THICK OR THICKER SHALL HAVE A CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LBS @ 70 DEG F.

WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

LATERAL FORCE-RESISTING SYSTEM: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT" AWS D1.8.

REINFORCING STEEL: WELD IN ACCORDANCE WITH "REINFORCING STEEL WELDING CODE" AWS D1.4. WELD ONLY WITH SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER. IN NO CASE SHALL A WELD BE MADE WITHIN 6 BAR DIAMETERS OF A "COLD BEND".

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS) SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE.

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE THE TENSILE STRENGTH AND CHARPY V-NOTCH RATINGS AS FOLLOWS:

GRAVITY FRAME

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHARPY V-NOTCH (CVN) RATING
FILLET	70 KSI	-----
PARTIAL PENETRATION	70 KSI	-----
COMPLETE PENETRATION	70 KSI	20 FT-LBS @ 40 DEG F

LATERAL FORCE-RESISTING SYSTEM

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHARPY V-NOTCH (CVN) RATING
FILLET	70 KSI	20 FT-LBS @ 0 DEG F
PARTIAL PENETRATION	70 KSI	20 FT-LBS @ 0 DEG F
COMPLETE PENETRATION	70 KSI	20 FT-LBS @ 0 DEG F
FILLET (1)	70 KSI	40 FT-LBS @ 70 DEG F
PARTIAL PENETRATION (1)	70 KSI	40 FT-LBS @ 70 DEG F
COMPLETE PENETRATION (1)	70 KSI	40 FT-LBS @ 70 DEG F

(1) DCW LOCATIONS ARE INDICATED IN THE DETAILS.

WELDED CONNECTIONS INSPECTION:

1. ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.

2. ALL FULL PENETRATION WELDS TO MEMBERS WHICH FORM A PORTION OF THE LATERAL FORCE-RESISTING SYSTEM SHALL BE CHECKED 100 PERCENT BY ULTRASONIC TESTING.

3. THE CONTRACTOR SHALL SUBMIT A WRITTEN WELDING PROCEDURE SPECIFICATION FOR SHOP AND FIELD WELDING OF ALL LATERAL FORCE-RESISTING SYSTEM CONNECTIONS FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION.

THE STANDARDS OF ACCEPTANCE FOR WELDS TESTED BY ULTRASONIC METHODS SHALL CONFORM TO AWS D1.1.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR

GENERAL REQUIREMENTS

HIGH-STRENGTH BOLTS: ALL A325 HIGH-STRENGTH BOLTS (HSB) INDICATED AS A325 IN THE DRAWINGS SHALL BE ASTM F3125, GRADE F1852, UNLESS OTHERWISE INDICATED AS A490. ALL HSB INDICATED AS A490 SHALL BE ASTM F3125, GRADE F2280. ALL HSB SHALL BE BY "LEJEUNE BOLT COMPANY" OR PRE-APPROVED EQUAL AND SHALL BE INSTALLED PER SECTION 8.2 OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS", JUNE 2020 BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC SPECIFICATION). ALL BOLT HOLES SHALL BE STANDARD ROUND HOLES UNLESS NOTED OTHERWISE. THE FAYING SURFACES OF ALL PLIES WITHIN THE GRIP OF SLIP-CRITICAL BOLTS (A325SC OR A490SC) SHALL MEET THE REQUIREMENTS FOR A CLASS A SURFACE PER SECTION 3.2 OF THE RCSC SPECIFICATION.

BOLTED CONNECTIONS INSPECTION: CONNECTIONS MADE WITH BEARING TYPE BOLTS SHALL BE INSPECTED PER SECTION 9.1 AND CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL BE INSPECTED PER SECTION 9.3 OF RCSC SPECIFICATION.

ADHESIVE ANCHOR RODS: FULLY THREADED ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE.

FINISH: STRUCTURAL STEEL SHALL BE UNPAINTED, UNLESS NOTED OTHERWISE, AND SHALL BE CLEAN OF LOOSE RUST, LOOSE MILL SCALE, OIL, GREASE AND OTHER FOREIGN SUBSTANCES AND SHALL MEET THE REQUIREMENTS OF SSPC-SP1. WHERE STRUCTURAL STEEL IS NOTED TO BE PAINTED, ALL AREAS COMPRISING THE FAYING SURFACES OF BOLTED CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL COMPLY WITH THE REQUIREMENTS OF THE RCSC SPECIFICATION. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.

COLD-FORMED STEEL FRAMING CONSTRUCTION:

THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED CARBON OR LOW-ALLOY STEEL, STRUCTURAL AND NON-STRUCTURAL STEEL FRAMING, SHALL BE IN ACCORDANCE WITH IBC SECTION 2211 AND AMERICAN IRON AND STEEL INSTITUTE (AISI) STANDARD S100-16 AND S240-20 AND SHALL BE MANUFACTURED BY A MEMBER OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA), CERTIFIED STEEL STUD ASSOCIATION (CSSA), STEEL FRAMING INDUSTRY ASSOCIATION (SFIA), OR PRE-APPROVED EQUAL, IN ACCORDANCE WITH A CURRENT ICC EVALUATION SERVICE REPORT, AISI S202-20 AND S240-20. ALL 54 MIL AND HEAVIER GALVANIZED MEMBERS SHALL BE FORMED FROM STEEL THAT MEETS THE REQUIREMENTS OF ASTM A653, QUALITY SQ, GRADE 50, CLASS 1, FY= 50 KSI. ALL 43 MIL AND LIGHTER GALVANIZED MEMBERS SHALL BE FORMED FROM STEEL THAT MEETS THE REQUIREMENTS OF ASTM A653, QUALITY SQ, GRADE 33, FY=33 KSI. BRIDGING PER MANUFACTURER'S REQUIREMENTS AND AS SHOWN IN THE STRUCTURAL DRAWINGS SHALL BE IN PLACE PRIOR TO PLACING OF ANY CONSTRUCTION LOADS. ALL RUNS SHALL BE RIGIDLY ANCHORED TO END WALLS.

INTERIOR NON-BEARING WALL, CEILING, SOFFIT, AND OTHER MISC. COLD-FORMED STEEL FRAMING: COLD-FORMED STEEL FRAMING MEMBERS SHALL MEET THE TYPE, SIZE, AND THICKNESS AS INDICATED IN THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS, AND SHALL CONFORM TO THE MINIMUM PERSCRIPTIVE REQUIREMENTS OF THE GYPSUM CONSTRUCTION HANDBOOK BY CGC, INC. FRAMING CONDITIONS THAT EXCEED THE WEIGHT, SPAN OR HEIGHT LIMITATIONS SHALL BE CONSTRUCTED USING APPLICABLE DETAILS ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL COLD-FORMED FRAMING NOT SPECIFICALLY DETAILED IN THE GYPSUM CONSTRUCTION HANDBOOK OR ON THE STRUCTURAL DRAWINGS. THE DESIGN AND DETAILING OF THE COLD-FORMED STEEL FRAMING AND CONNECTION TO THE STRUCTURE SHALL BE PREPARED UNDER THE DIRECTION OF AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.

COLD-FORMED STEEL FRAMING SUBSTITUTION: AT THE CONTRACTOR'S OPTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, FABRICATION AND ERECTION OF THE INTERIOR NON-BEARING COLD-FORMED STEEL FRAMING, NOT OCCURING AT BRICK VENEER, AND THE CONNECTION OF THE COLD-FORMED STEEL FRAMING TO THE STRUCTURE. THE DESIGN AND DETAILING OF THE COLD-FORMED STEEL FRAMING AND CONNECTION TO THE STRUCTURE SHALL BE PREPARED UNDER THE DIRECTION OF AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.

POWDER ACTUATED FASTENERS: SHALL BE X-U UNIVERSAL KNURLED SHANK FASTENER BY HILTI OR PRE-APPROVED EQUAL. INSTALL PER ALL MANUFACTURER'S PUBLISHED RECOMMENDATIONS. COLD-FORMED STEEL TO STRUCTURAL STEEL: UNLESS NOTED OTHERWISE, PROVIDE 0.157" SHANK DIAMETER X-U LOW-VELOCITY FASTENER - FASTENER TIP SHALL PENETRATE STRUCTURAL STEEL. COLD-FORMED STEEL TO CONCRETE: UNLESS NOTED OTHERWISE, PROVIDE 0.157" SHANK DIAMETER X-U LOW-VELOCITY FASTENER - EMBED 1-1/2" MINIMUM INTO CONCRETE, UNLESS NOTED OTHERWISE.

MISCELLANEOUS:

PRE-APPROVED SUBSTITUTIONS: SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES, IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.

SHOP DRAWINGS/SUBMITTALS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

		STRUCTURAL ENGR.	BLDG. DEPT.
1.	CONCRETE MIX DESIGNS	X	X
2.	REINFORCING STEEL SHOP DRAWINGS	X	
3.	STRUCTURAL STEEL	X	X
4.	COLD-FORMED STEEL FRAMING	X	X
5.	MISCELLANEOUS STEEL	X	X
6.	CONTRACTOR'S STATEMENT OF RESPONSIBILITY	X	X

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

WABO Certified and Registered special inspection testing lavatory, inspectors and agencies are acceptable.

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PHASE 2 PERMIT SET 07/08/2025

MultiCare Good Samaritan Hospital Kitchen
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MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

GENERAL NOTES

SHEET NUMBER

S01-02

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STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
SOILS	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		IBC 1705.6
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		
	DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X			
	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		

STEEL CONSTRUCTION	INSPECTION TASKS	OBSERVE	PERFORM	COMMENTS	REFERENCES
	PRIOR TO WELDING:			SPECIAL INSPECTIONS IN THIS SECTION **MAY BE** WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A WABO CERTIFIED FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5 **AND WITH THE APPROVAL OF THE BUILDING OFFICIAL.**	AISC 360, TABLE N5.4-1 AISC 341, TABLE J6.1
	WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	X			
	WELDING PROCEDURE SPECIFICATIONS		X		
	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		X		
	MATERIAL IDENTIFICATION (TYPE/GRADE)	X			
	WELDER IDENTIFICATION SYSTEM	X			
	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	X			
	FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K—JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	X			
	CONFIGURATION AND FINISH OF ACCESS HOLES	X			
	FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	X			
	DURING WELDING:				AISC 360, TABLE N5.4-2 AISC 341, TABLE J6.2
	CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	X			
	NO WELDING OVER CRACKED TACK WELDS	X			
	ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	X			
	WELDING PROCEDURE SPECIFICATIONS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F, V, H, OH) • INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED (LATERAL CONNECTIONS ONLY)	X			
	WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	X			
	USE OF QUALIFIED WELDERS (FOR LATERAL CONNECTIONS)	X			
	PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS		X		
	AFTER WELDING:				AISC 360, TABLE N5.4-3 AISC 341, TABLE J6.3
	WELDS CLEANED	X			
	SIZE, LENGTH, AND LOCATION OF WELDS		X		
	WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY		X		
	ARC STRIKES		X		
	k-AREA		X		
	WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES		X		

STEEL CONSTRUCTION (CONTINUED)	INSPECTION TASKS	OBSERVE	PERFORM	COMMENTS	REFERENCES
	BACKING REMOVED AND WELD TABLES REMOVED (IF REQUIRED)		X		
	REPAIR ACTIVITIES		X		
	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		X		
	NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER	X			
	PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS AS REQUIRED (LATERAL CONNECTIONS ONLY)		X		
	PRIOR TO BOLTING:				AISC 360, TABLE N5.6-1 AISC 641, TABLE J7.1
	MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS	X			
	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	X			
	CONNECTING ELEMENTS INCLUDING FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	X			
	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED FOR FASTENER ASSEMBLIES AND METHODS USED	X			
	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	X			
	DURING BOLTING:				AISC 360, TABLE N5.6-2 AISC 341, TABLE J7.2
	FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	X			
	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION	X			
	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	X			
	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC *SPECIFICATION*, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	X			
	AFTER BOLTING:				AISC 360, TABLE N5.6-3 AISC 341, TABLE J7.3
	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		X		
	OTHER INSPECTION TASKS:				
	PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS		X		AISC 360 SECTION N5.8
	FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPLICABLE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS		X		
	REDUCED BEAM SECTION REQUIREMENTS, IF APPLICABLE • CONTOUR AND FINISH • DIMENSIONAL TOLERANCE		X		AISC 341 TABLE J8.1
	PROTECTED ZONE – NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE		X		
	NONDESTRUCTIVE TESTING OF WELDED JOINTS:			SPECIAL INSPECTIONS IN THIS SECTION **MAY BE** WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5 **AND WITH THE APPROVAL OF THE BUILDING OFFICIAL.** SEE AISC 360 SECTION N5 FOR ULTRASONIC TESTING RATE	AISC 360 SECTION N5
	FOR RISK CATEGORY III AND IV STRUCTURES ALL COMPLETE-JOINT-PENETRATION WELDS, T- AND CORNER JOINTS, IN MATERIAL 5/16" OR GREATER		X		
	FOR RISK CATEGORY II STRUCTURES 10% OF ALL COMPLETE-JOINT-PENETRATION WELDS, T- AND CORNER JOINTS, IN MATERIAL 5/16" OR GREATER		X		
	COMPOSITE STRUCTURES PRIOR TO CONCRETE PLACEMENT:				AISC 341 TABLE J9.1
	MATERIAL IDENTIFICATION OF REINFORCEMENT STEEL (TYPE/GRADE)	X			
	DETERMINATION OF CARBON EQUIVALENT FOR REINFORCING STEEL OTHER THAN ASTM A706/A706M	X			
	PROPER REINFORCING STEEL SIZE, SPACING AND ORIENTATION	X			
	REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD	X			
	REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED	X			
	REQUIRED REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED	X			
	COMPOSITE MEMBER HAS REQUIRED SIZE	X			
	COMPOSITE STRUCTURES DURING CONCRETE PLACEMENT:				AISC 341 TABLE J9.2
	CONCRETE: MATERIAL IDENTIFICATION (MIX DESIGN, COMPRESSIVE STRENGTH, MAXIMUM LARGE AGGREGATE SIZE, MAXIMUM SLUMP)	X			
	LIMITS ON WATER ADDED AT THE TRUCK OR PUMP	X			
	PROPER PLACEMENT TECHNIQUES TO LIMIT SEGREGATION	X			
	COMPOSITE STRUCTURES AFTER CONCRETE PLACEMENT:				AISC 341 TABLE J9.3
	ACHIEVEMENT OF MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH AT SPECIFIED AGE		X		
	H-PILES:				AISC 341 TABLE J10.1
	PROTECTED ZONE – NO HOLES AND UNAPPROVED ATTACHMENTS MADE by THE RESPONSIBLE CONTRACTOR, AS APPLICABLE		X		

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL	MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		X		APPLICABLE ASTM MATERIAL STANDARDS & IBC 2210.1.1
	B. MANUFACTURER'S CERTIFIED TEST REPORTS		X		
	INSPECTION OF WELDING A. COLD-FORM STEEL DECK WELDS	X	X		AWS D1.3 AWS D1.4 IBC 1705.2.3
	B. OPEN WEB STEEL JOISTS & JOIST GIRDERS 1. END CONNECTIONS - WELDING OR BOLTED		X		SJI SPECIFICATIONS LISTED IN SECTION 2207.1
	2. BRIDGING - HORIZONTAL OR DIAGONAL a. STANDARD BRIDGING		X		
	b. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		X		SJI SPECIFICATIONS LISTED IN SECTION 2207.1

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WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

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SHEET NUMBER

S01-03

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STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
CONCRETE	INSPECT REINFORCEMENT, INCLUDING PRE-STRESSING TENDONS, AND VERIFY PLACEMENT		X	SPECIAL INSPECTIONS NOT REQUIRED FOR THE FOLLOWING CONDITIONS:	ACI 318: CH 20, 25.2, 25.3, 26.6-1 TO 26.6-3, IBC 1908
	ANCHORS CAST IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE		X	NON-STRUCTURAL SLAB ON GRADE	ACI 318: 26.7 AISC 360 SECTION N7
	VERIFY USE OF REQUIRED DESIGN MIX		X	CONCRETE FOUNDATION WALLS WITH F'c ≤ 2500 PSI	ACI 318, CH 19
	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ISOLATED SPREAD FOOTINGS FOR BUILDINGS THREE-STORIES AND LESS ABOVE GRADE PLANE	ASTM C172, C31 ACI 318: 26.4, 26.12
	CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION	X		CONTINUOUS FOOTINGS SUPPORTING WALLS OF THREE-STORIES AND LESS ABOVE GRADE PLANE WHERE WALLS ARE LIGHT-FRAME CONSTRUCTION AND STRUCTURAL DESIGN IS BASED ON F'c ≤ 2500 PSI	ACI 318: 26.5
	MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X		ACI 318: 26.5.3 TO 26.5.5
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS INSTALLED IN ANY DIRECTION AND ADHESIVE ANCHORS INSTALLED DOWNWARD)		X	PERIODIC INSPECTION TO INCLUDE A QUANTITY OF 10% WITH A MINIMUM OF (5) ANCHORS INSPECTED PER INSTALLER ON A DAILY BASIS.	ACI 318: 26.7 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (ADHESIVE ANCHORS INSTALLED HORIZONTAL OR UPWARDLY INCLINED)	X			ACI 318: 26.7 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X		ACI 318: 26.11.1.2(b)
	MATERIAL VERIFICATION OF REINFORCEMENT STEEL FOR ASTM A615 REINFORCING		X	MANUFACTURER SHALL PROVIDE MILL TEST REPORTS. CONTINUOUS INSPECTION FOR ALL WELDS GREATER THAN 5/16" FILLET. PERIODIC INSPECTION FOR FILLET WELD 5/16" AND SMALLER	ACI 318: 26.6.4 AWS D1.4 IBC 1705.3.1
	TESTING OF MATERIALS		X		IBC 1705.3.2
	INSPECTION OF WELDING FOR REINFORCING STEEL A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 B. REINFORCING STEEL IN MOMENT FRAMES AND BOUNDARY ELEMENTS C. SHEAR REINFORCEMENT D. OTHER REINFORCING STEEL	 X X X	X		AWS D1.3 AWS D1.4 ACI 318 SECTION 26.6.4
SUSPENDED CEILINGS	ANCHORAGE AND SEISMIC BRACING		X		
STORAGE RACKS	MATERIALS USED, TO VERIFY COMPLIANCE WITH ONE OR MORE OF THE MATERIAL TEST REPORTS IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS		X	SPECIAL INSPECTION NOT REQUIRED FOR STORAGE RACKS < 8 FT. HIGH	IBC 1705.13.7
	FABRICATED STORAGE RACK ELEMENTS		X		IBC 1704.2.5
	STORAGE RACK ANCHORAGE INSTALLATION		X		ANSI/MH16.1, SECTION 7.3.2
	COMPLETED STORAGE RACK SYSTEM, TO INDICATE COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS		X		
MECHANICAL AND ELECTRICAL SYSTEMS	MINIMUM CLEARANCE TO SPRINKLER PIPING OF 3"		X		IBC 1705.13.6
	TESTING FOR SMOKE CONTROL		X		IBC 1705.19
FIRE-RESISTANT MATERIALS	SPRAYED FIRE-RESISTANT MATERIALS		X		IBC 1705.15
	MASTIC AND INTUMESCENT COATINGS		X		IBC 1705.16
	FIRE RESISTANT PENETRATIONS AND JOINTS		X		IBC 1705.18

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- REVIEW OF TESTING AND INSPECTION REPORTS.
- REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

ABBREVIATION LIST			
@	AT	HDR	HEADER
A.B.	ANCHOR BOLT	HGR	HANGER
ADD'L	ADDITIONAL	HORIZ.	HORIZONTAL
A.F.F.	ABOVE FINISH FLOOR	HSS	HOLLOW STRUCTURAL SECTION
ALT.	ALTERNATE	HT	HEIGHT
ARCH.	ARCHITECTURAL	INT.	INTERIOR
BLD'G	BUILDING	JST	JOIST
BLK'G	BLOCKING	JT	JOINT
BM	BEAM	L	ANGLE
B.O.F.	BOTTOM OF FOOTING	L.F.R.S.	LATERAL FORCE-RESISTING SYSTEM
BOT.	BOTTOM	L.L.	LIVE LOAD
BRB	BUCKLING RESTRAINED BRACE	LLH	LONG LEG HORIZONTAL
BRG	BEARING	LLV	LONG LEG VERTICAL
BTWN	BETWEEN	LOC.	LOCATION
B.U.	BUILT UP	LSL	LAMINATED STRAND LUMBER
(C=)	CAMBER	LVL	LAMINATED VENEER LUMBER
CANT.	CANTILEVER	MAX.	MAXIMUM
CFS	COLD-FORMED STEEL	M.B.	MACHINE BOLT
C.J.	CONTROL/CONSTRUCTION JOINT	MECH.	MECHANICAL
℄	CENTERLINE	MEZZ.	MEZZANINE
CLR.	CLEARANCE	MFR	MANUFACTURER
CLT	CROSS-LAMINATED TIMBER	MIN.	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC.	MISCELLANEOUS
COL.	COLUMN	MTL	METAL
CONC.	CONCRETE	MT SCREW	MASS TIMBER SCREW
CONN.	CONNECTION	N.F.	NEAR FACE
CONST.	CONSTRUCTION	N.S.	NEAR SIDE
CONT.	CONTINUOUS	NTS	NOT TO SCALE
CONTR.	CONTRACTOR	O.C.	ON CENTER
COORD.	COORDINATE	OPN'G	OPENING
C.P.	COMPLETE PENETRATION	OPP.	OPPOSITE
CTR'D	CENTERED	P.A.F.	POWDER ACTUATED FASTENER
C.Y.	CUBIC YARD	PERP.	PERPENDICULAR
DBL.	DOUBLE	PL	PLATE
DCW	DEMAND CRITICAL WELD	P.P.	PARTIAL PENETRATION
D.F.	DOUGLAS FIR	P.P.T.	PRESERVATIVE PRESSURE TREATED
DIA. OR ⌀	DIAMETER	P.S.F.	POUNDS PER SQUARE FOOT
DIAG.	DIAGONAL	PSL	PARALLAM
DIM.	DIMENSION	P.T.	POST TENSION
D.L.	DEAD LOAD	PWL	PLYWOOD
DLT	DOWEL-LAMINATED TIMBER	REINF.	REINFORCEMENT
DWG	DRAWING	REQ'D	REQUIRED
DWL	DOWEL	SCHED.	SCHEDULE
(E)	EXISTING	SCL	STRUCTURAL COMPOSITE LUMBER
EA.	EACH	SHT'G	SHEATHING
E.F.	EACH FACE	SIM.	SIMILAR
EL.	ELEVATION	S.O.G.	SLAB ON GRADE
ELEV.	ELEVATOR	SQ.	SQUARE
ENGR	ENGINEER	STD	STANDARD
EQ.	EQUAL	STIFF.	STIFFENER
E.W.	EACH WAY	STL	STEEL
EXP.	EXPANSION	STRUCT.	STRUCTURAL
EXT.	EXTERIOR	T&B	TOP & BOTTOM
FDN	FOUNDATION	T&G	TONGUE AND GROOVE
F.F.	FAR FACE	THR'D	THREADED
FLR	FLOOR	T.O.F.	TOP OF FOOTING
F.O.M.	FACE OF MASONRY	T.O.S.	TOP OF STEEL
F.O.S.	FACE OF STUD	TRT'D	TREATED
FRM'G	FRAMING	TYP.	TYPICAL
F.R.T.	FIRE RETARDANT TREATED	U.N.O.	UNLESS NOTED OTHERWISE
F.S.	FAR SIDE	U.T.	ULTRASONIC TESTED
FTG	FOOTING	VERT.	VERTICAL
GA.	GAGE/GAUGE	W/	WITH
GALV.	GALVANIZED	W.P.	WORK POINT
GL.	GLULAM	WT	WEIGHT
GR.	GRADE	W.W.R.	WELDED WIRE REINFORCING
GWB	GYPSUM WALL BOARD		

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PHASE 2 PERMIT SET 07/08/2025

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

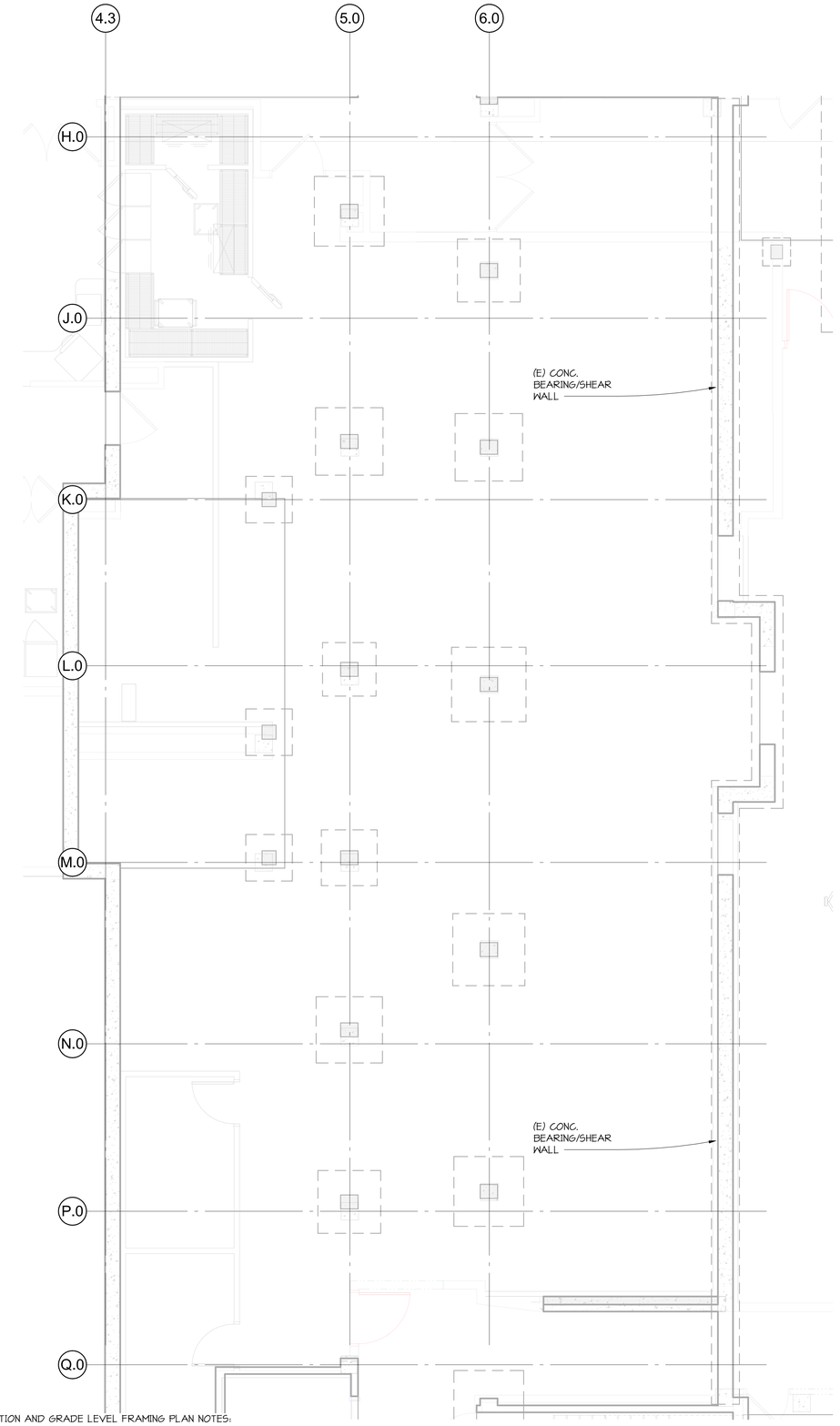
TITLE

GENERAL NOTES

SHEET NUMBER

S01-04

7/8/2025 11:31:01 AM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/STRU-MultiCare-Kitchen-R25.rvt



FOUNDATION AND GRADE LEVEL FRAMING PLAN NOTES:

1. INDICATES NON-STRUCTURAL STUD WALLS. ALL WALLS ARE NOT SHOWN. FOR LOCATION SEE ARCHITECTURAL FOR BRACING AT TOPS OF WALLS SEE SHEET S21.12. FOR SCHEDULE AND TYPICAL FRAMING SEE SHEETS S21-10 & S21-11.

2. SEE DETAIL 1/S21-00 FOR CUTTING AND PATCHING EXISTING SLAB ON GRADE.

1 / S11-01.2 FRAMING PLAN - LEVEL 01

1/4" = 1'-0"

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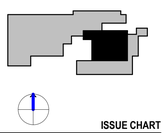
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE
Job Number		24127

TITLE

FRAMING PLAN - LEVEL 01 - PHASE 2

SHEET NUMBER

S11-01.2

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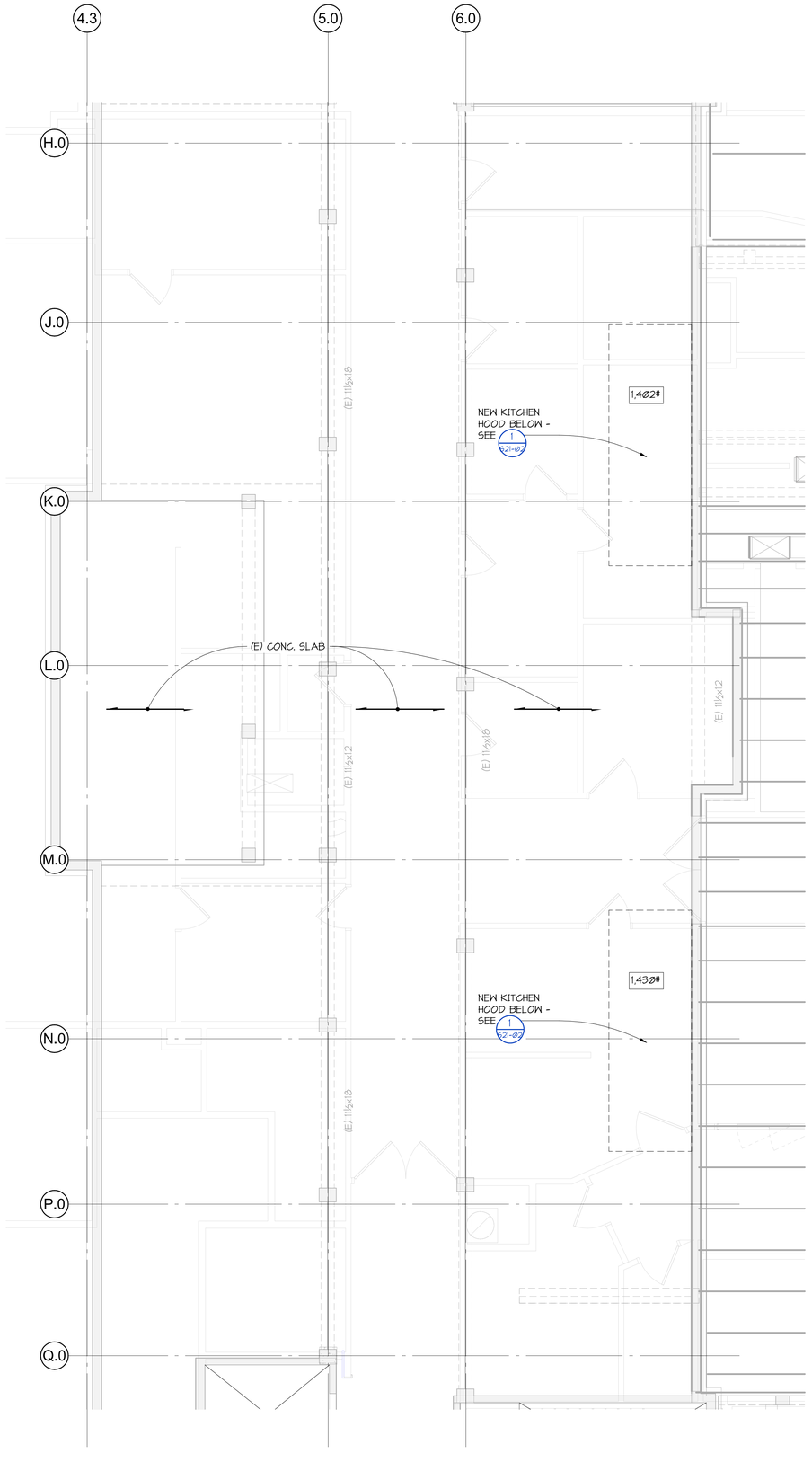

1 S11-02.2 FRAMING PLAN - LEVEL 02 - PHASE 2
1/4" = 1'-0"

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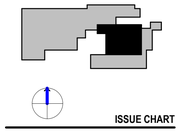
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

FRAMING PLAN - LEVEL 02 - PHASE 2

SHEET NUMBER

S11-02.2

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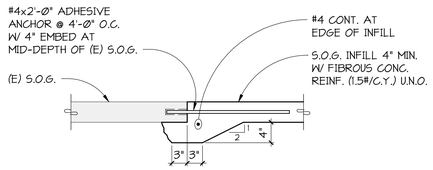
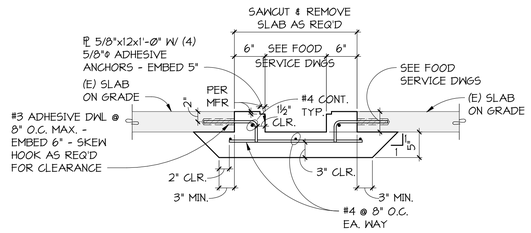
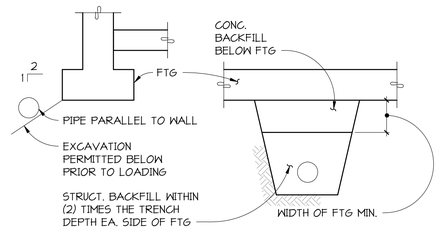


TYPICAL SLAB ON GRADE CONNECTION
TO EXISTING SLAB ON GRADE

1 S21-00 SECTION
1" = 1'-Ø"



2 S21-00 SECTION
1" = 1'-Ø"



TYPICAL FOR PARALLEL PIPES ADJACENT TO FOOTINGS

TYPICAL FOR PERPENDICULAR PIPES UNDER FOOTINGS

NOTES:
1. FOUNDATIONS SHALL NOT BE LOADED PRIOR TO COMPLETING STRUCTURAL BACKFILL UNDER AND NEAR FOOTINGS.
2. CONCRETE BACKFILL SHALL BE USED UNDER FOOTINGS WHERE 95% COMPACTION CANNOT BE ACCOMPLISHED.
3. ALL STRUCTURAL BACKFILL NOTED SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM.
4. A PIPE SLEEVE SHALL BE PROVIDED FOR SHALLOW PIPES CAST IN CONCRETE.
5. PIPES SHALL NOT BE PLACED IN THE FOOTING WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER.
6. FOR VARIATIONS CONTACT ENGINEER.

3 S21-00 SECTION
NO SCALE

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

CONCRETE DETAILS

SHEET NUMBER

S21-00

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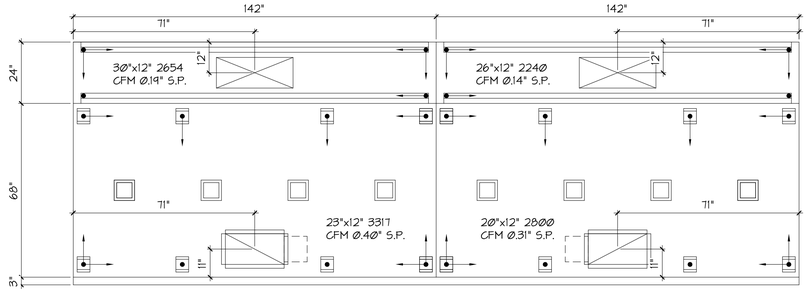
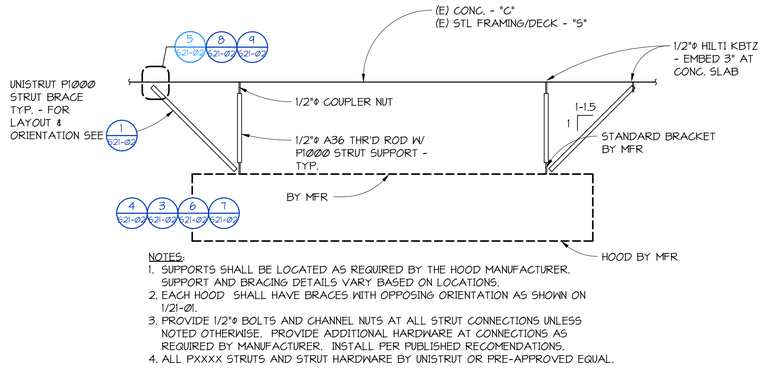


FRAMING NOTES:

1. ●—— INDICATES 1/2" DIAMETER ALL THREAD ROD WITH P1000 STRUT SUPPORT AND P1000 BRACE UP TO STRUCTURE. ARROW END OF BRACE INDICATES THE END WHICH CONNECTS TO STRUCTURE. SEE DETAIL 2/S21-02 FOR TYPICAL CONNECTION INFORMATION.
2. ● INDICATES 1/2" DIAMETER ALL THREAD ROD WITH P1000 STRUT SUPPORT. SEE DETAIL 2/S21-02 FOR TYPICAL CONNECTION INFORMATION.

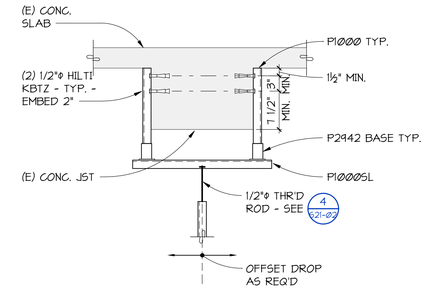
1 / S21-02 **PLAN**
1/2" = 1'-0"



NOTES:
1. SUPPORTS SHALL BE LOCATED AS REQUIRED BY THE HOOD MANUFACTURER. SUPPORT AND BRACING DETAILS VARY BASED ON LOCATIONS.
2. EACH HOOD SHALL HAVE BRACES WITH OPPOSING ORIENTATION AS SHOWN ON 1/21-01.
3. PROVIDE 1/2"ø BOLTS AND CHANNEL NUTS AT ALL STRUT CONNECTIONS UNLESS NOTED OTHERWISE. PROVIDE ADDITIONAL HARDWARE AT CONNECTIONS AS REQUIRED BY MANUFACTURER. INSTALL PER PUBLISHED RECOMENDATIONS.
4. ALL PXXXX STRUTS AND STRUT HARDWARE BY UNISTRUT OR PRE-APPROVED EQUAL.

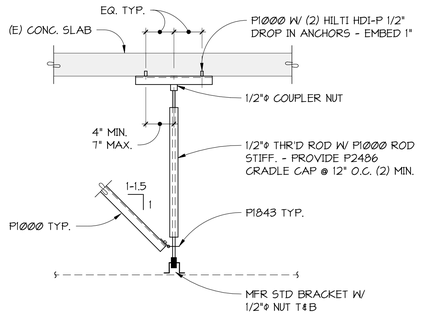
LIFT SUPPORT AT EXISTING FRAMING

2 / S21-02 **SECTION**
NO SCALE



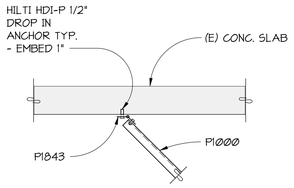
ALTERNATE DROP DETAIL AT CONCRETE JOIST AS REQUIRED

3 / S21-02 **SECTION**
NO SCALE



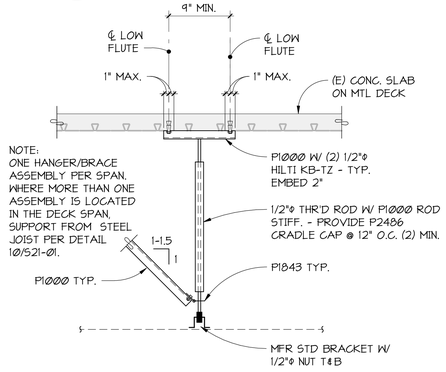
TYPICAL SUPPORT AT SLAB

4 / S21-02 **DETAIL**
NO SCALE



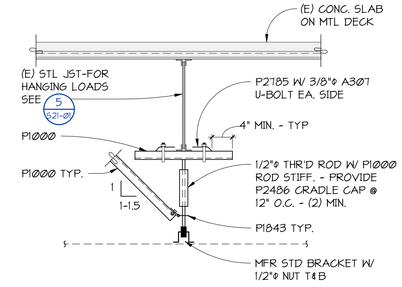
TYPICAL BRACE AT SLAB

5 / S21-02 **DETAIL**
NO SCALE



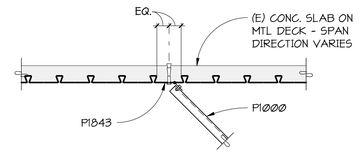
TYPICAL SUPPORT AT SLAB ON METAL DECK

6 / S21-02 **DETAIL**
NO SCALE



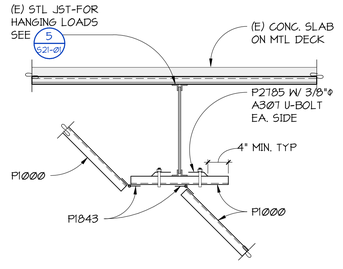
TYPICAL SUPPORT AT STEEL BEAM

7 / S21-02 **DETAIL**
NO SCALE



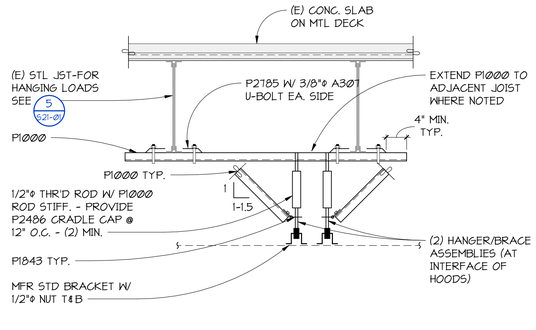
TYPICAL BRACE AT SLAB ON METAL DECK

8 / S21-02 **DETAIL**
NO SCALE



TYPICAL BRACE AT BOTTOM OF STEEL BEAM

9 / S21-02 **DETAIL**
NO SCALE



TYPICAL BRACE AT WEB OF STEEL BEAM

10 / S21-02 **DETAIL**
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MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
Job Number	24127	

TITLE

STEEL DETAILS

SHEET NUMBER

S21-02

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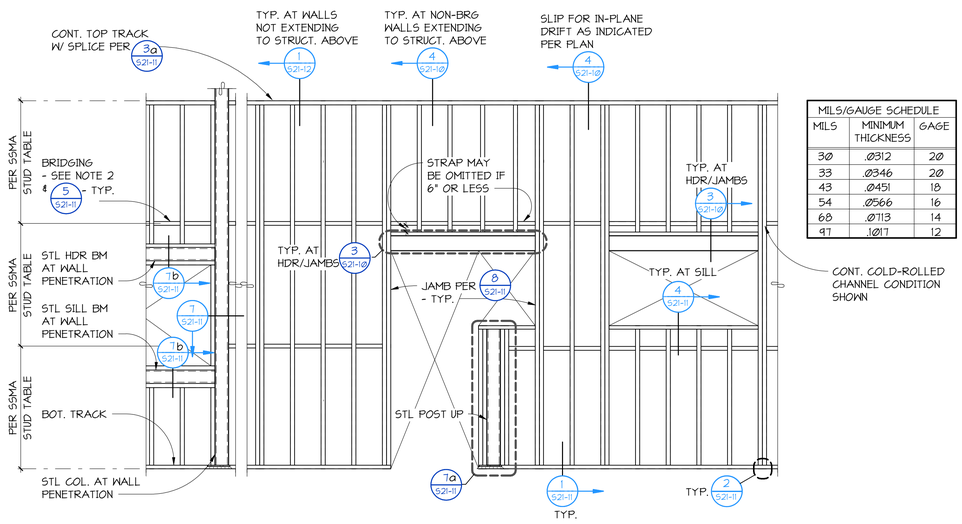


MILS/GAUGE SCHEDULE		
MILS	MINIMUM THICKNESS	GAGE
30	.0312	20
33	.0346	20
43	.0451	18
54	.0566	16
68	.0713	14
97	.1017	12

COLD FORMED STEEL STUD WALL FRAMING NOTES:

1. ALL NON-BEARING WALL STUDS SHALL BE PER 2/S21-10 UNLESS NOTED OTHERWISE. FOR WALL TYPE AND PROPER LOCATION SEE ARCHITECTURAL DRAWINGS.
2. PROVIDE BRIDGING AT ALL NON-BEARING WALLS WITHOUT FULL HEIGHT QUALIFIED SHEATHING EITHER SIDE OF STUD PER 5/SLGM3 NOTE #1.
3. FOR TYPICAL COLD-FORMED STEEL JOIST CEILING FRAMING SCHEDULE AND DETAIL - SEE 4/S21-12.
4. ALL WELDS SHALL BE 1/8" FILLET MAXIMUM. FOR MATERIALS THINNER THAN Ø.15", EFFECTIVE THROAT SHALL NOT BE LESS THAN THINNEST MATERIAL. WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE -- SHEET METAL" AWS D1.3.
5. STUD PUNCHOUTS SHALL NOT BE SPACED LESS THAN 24" ON CENTER, NOR WITHIN 10" CLEAR OF MEMBER END AT STUDS, HEADERS, BEAMS, JOISTS, ETC. FOR TYPICAL ALLOWABLE PUNCHOUT DETAIL - SEE 6/S21-11.
6. SCREWS SHALL BE THREAD-FORMING OR THREAD-CUTTING, WITH OR WITHOUT A SELF DRILLING POINT. SCREWS SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. MINIMUM SPACING IS THREE SCREW DIAMETERS. A MINIMUM OF (3) THREADS SHALL BE ENGAGED.
7. FOR TYPICAL COLD-FORMED STEEL WALL CORNER REQUIREMENTS - SEE 3b/S21-11.
8. FOR POWER ACTUATED FASTENER REQUIREMENTS - SEE GENERAL NOTES.

TYPICAL NON-BEARING COLD-FORMED STEEL STUD WALL FRAMING

1 ELEVATION
S21-10 NO SCALE

EXTERIOR NON-BEARING COLD-FORMED STEEL WALL STUDS WITH MASONRY VENEER
15 PSF (ASD) WIND LOAD, L/600 DEFLECTION LIMIT

REQUIRED BRIDGING TYPE	STUD SIZE	STUD MIL	33 MIL	43 MIL	54 MIL	68 MIL
		STUDS SPACED @ 16" O.C. MAXIMUM				
		MAXIMUM STUD HEIGHT ALLOWED				
1 OR 2 OR 3	4005137	SEE NOTE #3	11'-4"	12'-1"	21'-11"	
	4005162		11'-10"	12'-8"	13'-7"	
	4005200		12'-6"	13'-5"	14'-4"	
	6005137		15'-7"	16'-9"	17'-11"	
	6005162		16'-3"	17'-6"	18'-9"	
	6005200		17'-1"	18'-4"	19'-8"	
1 OR 3	8005137		19'-6"	21'-0"	22'-9"	
	8005162		20'-4"	21'-10"	23'-7"	
	8005200		21'-6"	23'-1"	24'-9"	

EXTERIOR NON-BEARING COLD-FORMED STEEL WALL STUDS
15 PSF (ASD) LOAD, 1/360 DEFLECTION LIMIT

REQUIRED BRIDGING TYPE	STUD SIZE	STUD MIL	33 MIL	43 MIL	54 MIL	68 MIL
		STUDS SPACED @ 16" O.C. MAXIMUM				
		MAXIMUM STUD HEIGHT ALLOWED				
1 OR 2 OR 3	4005137		12'-4"	13'-5"	14'-4"	15'-4"
	4005162		12'-11"	14'-0"	15'-1"	16'-1"
	4005200		13'-7"	14'-10"	15'-11"	17'-0"
	6005137		16'-6"	18'-6"	19'-10"	21'-3"
	6005162		17'-9"	19'-4"	20'-9"	22'-3"
	6005200		18'-7"	20'-3"	21'-9"	23'-4"
1 OR 3	8005137		18'-10"	22'-10"	24'-11"	26'-11"
	8005162		20'-6"	24'-1"	25'-11"	28'-0"
	8005200		22'-0"	25'-5"	27'-3"	29'-4"

EXTERIOR NON-BEARING COLD-FORMED STEEL WALL STUDS WITH MASONRY VENEER
20 PSF (ASD) WIND LOAD, 1/600 DEFLECTION LIMIT

REQUIRED BRIDGING TYPE	STUD SIZE	STUD MIL	33 MIL	43 MIL	54 MIL	68 MIL
		STUDS SPACED @ 16" O.C. MAXIMUM				
		MAXIMUM STUD HEIGHT ALLOWED				
1 OR 2 OR 3	4005137	SEE NOTE #3	10'-3"	11'-0"	11'-9"	
	4005162		10'-9"	11'-6"	12'-4"	
	4005200		11'-4"	12'-2"	13'-0"	
	6005137		14'-2"	15'-2"	16'-3"	
	6005162		14'-9"	15'-10"	17'-0"	
	6005200		15'-6"	16'-8"	17'-11"	
1 OR 3	8005137		17'-4"	19'-1"	20'-8"	
	8005162		18'-5"	19'-10"	21'-6"	
	8005200		19'-6"	20'-11"	22'-6"	

EXTERIOR NON-BEARING COLD-FORMED STEEL WALL STUDS
20 PSF (ASD) LOAD, 1/360 DEFLECTION LIMIT

REQUIRED BRIDGING TYPE	STUD SIZE	STUD MIL	33 MIL	43 MIL	54 MIL	68 MIL
		STUDS SPACED @ 16" O.C. MAXIMUM				
		MAXIMUM STUD HEIGHT ALLOWED				
1 OR 2 OR 3	4005137		10'-11"	11'-11"	12'-9"	13'-7"
	4005162		11'-5"	12'-5"	13'-4"	14'-3"
	4005200		12'-0"	13'-2"	14'-1"	15'-1"
	6005137		15'-1"	16'-5"	17'-7"	18'-10"
	6005162		15'-9"	17'-2"	18'-5"	19'-8"
	6005200		16'-6"	18'-0"	19'-4"	20'-9"
1 OR 3	8005137		-	20'-9"	22'-4"	23'-11"
	8005162		-	21'-7"	23'-2"	24'-11"
	8005200		-	22'-7"	24'-3"	26'-1"

INTERIOR NON-BEARING COLD-FORMED STEEL WALL STUDS
5 PSF (ASD) LIVE LOAD, 1/360 DEFLECTION LIMIT

REQUIRED BRIDGING TYPE	STUD SIZE	STUD MIL	18 MIL	33 MIL
		STUD SPACING		
			16" O.C.	16" O.C.
		MAXIMUM STUD HEIGHT ALLOWED		
4	1625125		8'-2"	8'-5"
	2505125		9'-10"	11'-2"
	3625125		12'-4"	14'-3"
	4005125		13'-4"	15'-11"
	6005125		17'-11"	21'-4"

REQUIRED BRIDGING TYPE	STUD SIZE	STUD MIL	43 MIL	54 MIL
		STUD SPACING		
			16" O.C.	16" O.C.
		MAXIMUM STUD HEIGHT ALLOWED		
1 OR 2 OR 3 OR 4	4005137		17'-2"	18'-5"
	4005162		18'-0"	19'-3"
	4005200		19'-0"	20'-4"
	6005137		23'-8"	25'-5"
	6005162		24'-9"	26'-6"
	6005200		26'-0"	27'-11"
1 OR 3 OR 4	8005137		30'-0"	32'-2"
	8005162		31'-2"	33'-6"
	8005200		32'-7"	35'-0"

NOTES:
1. FOR TYPICAL COLD-FORMED STEEL WALL STUD BRIDGING DETAIL SEE 5/SLGM3.
2. INFORMATION SHOWN FOR S125 STUDS TAKEN FROM THE GYPSUM CONSTRUCTION HAND BOOK BY CGC INC. - INFORMATION SHOWN FOR ALL OTHER STUDS TAKEN FROM ICC ES LEGACY REPORT ER-4943P*.
3. 43 MIL MINIMUM REQUIRED AT MASONRY VENEER.

2 SCHEDULE
S21-10 NO SCALE

EXTERIOR NON-BEARING COLD FORMED STEEL STUD WALL PENETRATION JAMB SCHEDULE 15 PSF (ASD) WIND LOAD

STUD SIZE AND MIL	MAXIMUM PENETRATION (FEET)	MINIMUM NUMBER STUD(S) AT JAMB (1)		(2)		(3)		(4)	
		HORIZONTAL DEFLECTION LIMIT OF WALL HEIGHT							
		L / 360	L / 600	L / 360	L / 600	L / 360	L / 600	L / 360	L / 600
		MAXIMUM JAMB HEIGHT (FEET)							
4005137-33	4	10	9	13	11	15	13	16	-
	8	-	-	10	9	12	10	13	11
6005137-33	4	13	12	16	15	16	16	16	16
	8	-	-	10	10	15	14	16	15
	12	-	-	-	-	10	10	13	13
8005162-43	4	16	16	16	16	16	16	16	16
	8	14	14	16	16	16	16	16	16
	12	11	11	13	13	16	16	16	16

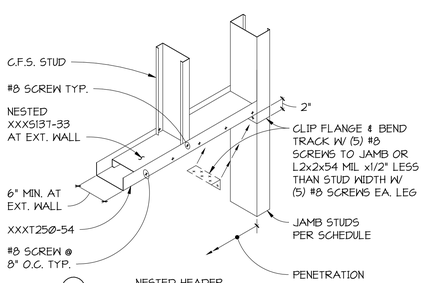
EXTERIOR NON-BEARING COLD FORMED STEEL STUD WALL PENETRATION JAMB SCHEDULE 20 PSF (ASD) WIND LOAD

STUD SIZE AND MIL	MAXIMUM PENETRATION (FEET)	MINIMUM NUMBER STUD(S) AT JAMB (1)		(2)		(3)		(4)	
		HORIZONTAL DEFLECTION LIMIT OF WALL HEIGHT							
		L / 360	L / 600	L / 360	L / 600	L / 360	L / 600	L / 360	L / 600
		MAXIMUM JAMB HEIGHT (FEET)							
4005137-33	4	9	-	12	10	14	11	15	13
	8	-	-	-	-	11	9	12	10
6005137-33	4	11	11	15	14	16	16	16	16
	8	-	-	-	-	11	11	15	14
	12	-	-	-	-	-	-	10	10
8005162-43	4	16	16	16	16	16	16	16	16
	8	12	12	16	16	16	16	16	16
	12	9	9	11	11	12	12	16	16

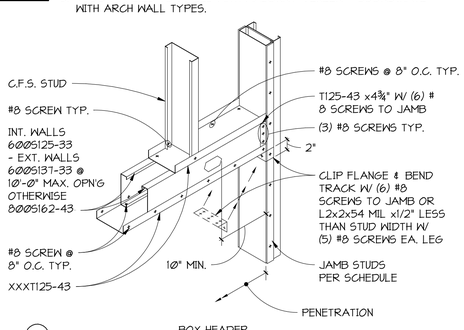
INTERIOR NON-BEARING COLD FORMED STEEL STUD WALL PENETRATION JAMB SCHEDULE 5 POUNDS PER SQUARE FOOT (ASD) LIVE LOAD - L/360

STUD SIZE AND MIL	MAXIMUM PENETRATION (FEET)	MINIMUM NUMBER OF BUILT-UP STUDS AT JAMB (2)	(3)	(4)	STUD DEPTH	STUD WIDTH AND MIL	MAXIMUM PENETRATION WIDTH (FEET) WITH SINGLE JAMB STUD (4)	(8)	(12)
		MAXIMUM JAMB HEIGHT (FEET)					MAXIMUM JAMB HEIGHT (FEET)		
3625125-33 OR 4005125-33	4	12	15	-	3625 OR 4005	125-33	10	-	-
						137-43	12	-	-
						162-54	13	11	-
	8	10	12	14		200-54	14	12	10
6005125-33	4	16	-	-	6005	125-33	11	-	-
						137-43	14	-	-
	8	13	16	-		162-54	-	15	-
						200-54	-	-	15
	12	9	14	16					

NOTES:
1. BOXED JAMB STUDS SHOWN. BACK-TO-BACK JAMB STUDS PERMITTED AT CONTRACTOR'S OPTION. FOR DETAIL SEE 8/SLGM3.
2. FOR CONNECTION TO STRUCTURE ABOVE - SEE 4/SLGM2 & 1/SLGM4.
3. FOR CONNECTION TO STRUCTURE BELOW - SEE 1/SLGM3.
4. HEADER AND STUDS SHALL BE CONTINUOUS - NO SPLICES ALLOWED.
5. 1/600 APPLIES TO WALLS WITH MASONRY VENEER - COORDINATE WITH ARCH WALL TYPES.



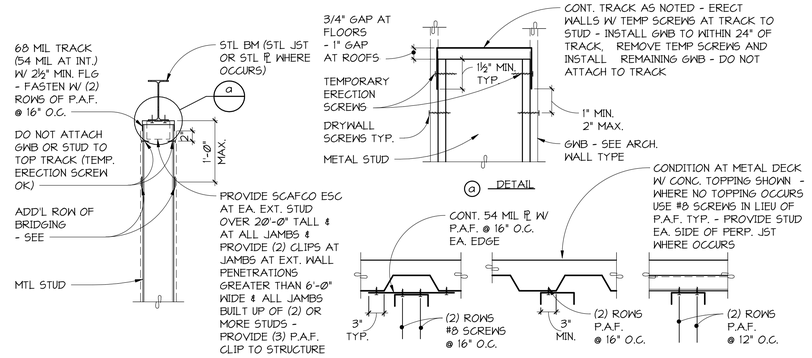
a NESTED HEADER
4'-0" MAXIMUM PENETRATION SIZE (NOT ALLOWED AT DOORS) (6005 MINIMUM AT EXTERIOR)



b BOX HEADER
12'-0 MAXIMUM PENETRATION UNLESS NOTED OTHERWISE
8'-0" MAXIMUM PENETRATION AT 4" EXTERIOR WALL
10'-0" MAXIMUM PENETRATION AT 4" OR 3⅝" INTERIOR WALL

TYPICAL NON-BEARING COLD-FORMED STEEL WALL PENETRATION AT 16'-0" MAXIMUM STUD HEIGHT - JAMB STUD SCHEDULE

3 DETAIL
S21-10 NO SCALE



TYPICAL NON-BEARING CFS WALL EXTENDING TO STRUCTURE ABOVE

4 SECTION
S21-10 NO SCALE

Perkins&Will

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#2300, Seattle,
WA 98101
t +12063816000
www.perkinswill.com

INMAN FOOD SERVICES
3807 Charlotte Avenue,
Nashville, Tennessee 37209

AHBL
1200 6th Ave #1620,
Seattle, WA 98101

PCS
1011 Western Avenue, Suite 810
Seattle WA 98104

SELLEN
227 Westlake Ave,
Seattle, WA 98109

MACDONALD MILLER
1004 Madison St,
Seattle, WA 98104

MACDONALD MILLER
1004 Madison St,
Seattle, WA 98104

EBD SERVICES
14900 Interurban Ave S, #143
Seattle, WA 98168

TURNER & TOWNSEND
920 Fifth Avenue,
Seattle, WA, 98104

PHASE 2 PERMIT SET 07/08/2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
Job Number	24127	

TITLE

COLD FORMED STEEL FRAMING DETAILS

SHEET NUMBER

S21-10

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NOTE:
PROVIDE LOAD BEARING SHIMS OR GROUT BETWEEN UNDERSIDE OF WALL BOTTOM TRACK OR RIM TRACK AND SUPPORT BELOW AT STUD OR JOIST LOCATION WHERE GAP GREATER THAN 1/4" OCCURS.

- FOR NON-SHEAR WALL USE P.A.F. @ 16" O.C. MAX. (EMBED 1½" MIN.) (NOT ALLOWED AT SHEAR WALLS)
- FOR SHEAR WALL USE 5/8"ø ADHESIVE ANCHOR @ 32" O.C. MAX. (SPACING PER SHEAR WALL SCHED. WHERE OCCURS) (EMBED 7" MIN.)
- W/ 3"x3"x1/4" ℄ WASHER

43 MIL MIN. TRACK, OR MATCH STUD THICKNESS WHICHEVER IS GREATER
- MIN. FLANGE WIDTH = 1¼"

STUD ENDS MUST BEAR ON TRACK WEB - 1/16" GAP MAX. AT BRG WALL - 1/8" MAX. AT NON-BRG WALL

#8 SCREW EA. STUD TYP.

1/8

AT ℄ WASHER AT BRG WALL OR SHEAR WALL

END OF WALL

JAMB STUD & L3x3 PER 3/S21-10 AT NON-BEARING WALL

6" MAX., 3" MIN.

PROVIDE P.A.F. FOR NON-SHEAR WALL SEE 2/S21-11 PROVIDE L3x3 W/ 5/8"ø ADHESIVE ANCHOR AT EA. END OF SHEAR WALL

3" MIN. FROM EDGE OF SLAB OR STEM WALL

TYPICAL COLD-FORMED STEEL STUD AND TRACK ATTACHMENT

1/S21-11 DETAIL
NO SCALE

NOTE:
PROVIDE LOAD BEARING SHIMS OR GROUT BETWEEN UNDERSIDE OF WALL BOTTOM TRACK OR RIM TRACK AND SUPPORT BELOW AT STUD OR JOIST LOCATION WHERE GAP GREATER THAN 1/4" OCCURS.

L3x EA. SIDE OF JAMB STUD FOR ALL PENETRATION WIDTHS

1½" EQ.

5/8"ø ADHESIVE ANCHOR - EMBED 7"

AT CONTRACTOR'S OPTION UNLESS NOTED OTHERWISE ALTERNATE JAMB ATTACHMENT AT FOUNDATION WALL

1" 1/2" EQ. 1/2"

L5x3x54 MIL x 1/2" LESS THAN STUD WIDTH LLH - W/ (4) #8 SCREWS TO JAMB - W/ (2) P.A.F. TO CONC. (EMBED 1½" MIN.) - W/ (4) #8 SCREWS TO TRACK ABOVE AT BRG WALL

#8 SCREW EA. STUD TYP.

WALL PENETRATION

ADD'L L3x AT WALL PENETRATION OVER 6'-0" WIDE ℄ AT ALT. ATTACHMENT FOR ALL PENETRATION WIDTHS TYP.

JAMB STUDS PER 3/S21-10 AT NON-BEARING WALL

SINGLE JAMB STUD WHERE OCCURS AT NON-BEARING

TYPICAL COLD-FORMED STEEL JAMB STUD ATTACHMENT

2/S21-11 DETAIL
NO SCALE

TRACK BLOCK PIECE TO MATCH WALL STUD CLIP FLANGE & BEND - INSTALL 96" O.C. MAX. - ALL STRAPS SHALL BE CONNECTED TO AT LEAST (1) BLOCK - PROVIDE ADD'L BLOCK EA. SIDE AT DISCONTINUOUS STRAP

C.F.S. STUD

PROVIDE BRIDGING @ 48" O.C. VERT. MAX.

1½"

(2) #8 EA. FLANGE TYP.

SCREW ATTACHMENT - (4) #8 MIN. SCREWS EA. SIDE

TAUT 33 MIL x 1½" CONT. STRAP EA. SIDE

(1) #8 SCREW EA. FLANGE EA. STUD

OPTION 1: BRIDGING CONSISTS OF DOUBLE FLAT STRAP WITH BLOCKING

TRACK BLOCK PIECE TO MATCH WALL STUD CLIP FLANGE & BEND - INSTALL 96" O.C. MAX. - ALL STRAPS SHALL BE CONNECTED TO AT LEAST (1) BLOCK - PROVIDE ADD'L BLOCK EA. SIDE AT DISCONTINUOUS STRAP

FULL HT SHT'G - SEE NOTE #1

1½"

SCREW ATTACHMENT - (4) #8 SCREWS MIN. EA. SIDE

C.F.S. STUD

TAUT 33 MIL x 1½" CONT. STRAP

PROVIDE BRIDGING @ 48" O.C. VERT. MAX.

OPTION 3: BRIDGING CONSISTS OF SINGLE FLAT STRAP WITH BLOCK AND FULL HEIGHT SHEATHING OPPOSITE FACE

TYPICAL MINIMUM EDGE DISTANCE = 3 TIMES SCREW DIAMETER

1/2" 1/2"

(2) #8 SCREWS TO CHANNEL & STUD

PLAN PLAN

1½"x1½"x(d)-1/2" CLIP ANGLE - (1) THICKNESS HEAVIER THAN STUD OR 54 MIL MIN.

WELDED ANGLE SCREWED ANGLE

PROVIDE BRIDGING @ 48" O.C. VERT. MAX.

150U50-54 COLD-ROLLED CHANNEL - OPTIONAL SPLICE AT CLIP

6" MAX.

CLIP ANGLE - PROVIDE DBL. CLIP ANGLE ((1) EA. SIDE) AT B.U. STUDS

OPTION 2: BRIDGING CONSISTS OF COLD-ROLLED CHANNEL WITH CLIP ANGLE (6" MAXIMUM STUD SIZE)

FULL HT SHT'G - SEE NOTE #1

FASTEN W/ #8 SCREW MIN. @ 12" O.C. MAX. TYP.

OPTION 4: FULL HEIGHT SHEATHING EACH FACE

NOTES:

1. QUALIFIED SHEATHING SHALL BE GYPSUM WALL BOARD, GYPSHEATHING, PLYWOOD, OR ORIENTED STRAND BOARD ONLY AND SHALL OCCUR FULL HEIGHT OF WALL.
2. OPTIONS 3 & 4 ARE NOT ALLOWED FOR STUD BRACING AT LOAD BEARING WALL CONDITION.

TYPICAL BRIDGING AT COLD-FORMED STEEL WALL

5/S21-11 DETAIL
NO SCALE

(4) #8 SCREWS AT LAPPED TRACK

STUD SECTION INSIDE TRACK

6" MIN.

#8 SCREWS @ 24" O.C. CONNECTING CORNER STUD

(4) #8 SCREWS ON EA. SIDE OF SPLICE

a TYPICAL COLD-FORMED STEEL BOTTOM/TOP TRACK SPLICE

b TYPICAL COLD-FORMED STEEL WALL CORNER

3/S21-11 DETAIL
NO SCALE

8'-0" MAX. PENETRATION AT 4" OR 3⅝" WALL
- 12'-0" MAX. PENETRATION AT 6" & 8" WALL

CONT. XXXT250-54 - TYP.

#8 SCREW AT XXX5137-33 NESTED STUD, TYP. L2x2x54 CLIP AT XXX5200-54 NESTED STUD

NESTED XXX5137-33 AT 3⅝" & 4" WALL, NESTED XXX5200-54 AT 6" & 8" WALL U.N.O. (OMIT AT 6" & 8" WALL W/ PENTRATION 8'-0" MAX)

#8 SCREW @ 8" O.C. - TYP.

C.F.S. STUD

NOTE:
SILL TRACK AND STUD SHALL BE CONTINUOUS - NO SPLICES ALLOWED.

JAMB PER 3/S21-10 AT NON- BEARING WALL

2"

CLIP FLANGE & BEND TRACK W/ (5) #8 SCREWS TO JAMB OR L2x2x54 MIL x1/2" LESS THAN STUD WIDTH W/ (5) #8 SCREWS EA. LEG

6" LONG GRIPPLE STUD TO MATCH TYP. WALL STUD SIZE W/ (4) #8 SCREWS TO JAMB

2-12 2-12

CONT. XXX5162-54

ROUGH OPN'G

XXXT250-54 IN 10'-0" LENGTHS

CONT. XXX5137-33 NESTED

a ALTERNATE ALLOWED CONDITION AT DISCONTINUOUS TRACK PIECE

TYPICAL SILL AT COLD-FORMED STEEL WALL PENETRATION AT 16'-0" MAXIMUM STUD HEIGHT

4/S21-11 DETAIL
NO SCALE

10" MIN.

4½" MAX. TYP.

PENETRATION (HOLE, PUNCHOUT)

24" MIN.

1½" MAX. TYP.

℄ STUD & PUNCHOUT

6" MIN.

a TYPICAL ALLOWABLE COLD-FORMED STEEL STUD PUNCHOUT

6" MIN.

SCREWS 1" O.C. - TYP.

(E) PENETRATION PER a

SOLID STL ℙ, C-SECTION OR TRACK MIN. THICKNESS AS STUD

b TYPICAL INFILL OF FACTORY COLD-FORMED STEEL STUD PUNCHOUT

24" MIN. 10" MIN.

8" MIN.

2½" MAX. 2½" MAX.

4½" MAX. 4½" MAX.

℄ WEB

BRG CONDITION

c TYPICAL ALLOWABLE COLD-FORMED STEEL JOIST PUNCHOUT

6/S21-11 DETAIL
NO SCALE

BOT. OF WALL PENETRATION

SILL TRACK W/ NESTED STUD - SEE 4/S21-11

T.O.S. - COORD. EL. W/ GENERAL CONTR.

ANCHORS SAME SIDE OF COL. AT DOOR OPN'G

℄ COL.

L2x2x54 MILx1/2" LESS THAN STUD WIDTH W/ (3) P.A.F. TO STL COL. & (4) #8 SCREWS TO NESTED STUD

PARTIAL HT STL COL.

COORD. LOC. W/ GENERAL CONTR. & WINDOW, DOOR, ETC. MFR AT WALL PENETRATION CONDITION

a CONDITION AT STEEL POST UP

COORD. LOC. W/ GENERAL CONTR. & WINDOW , DOOR, ETC. MFR AS REQ'D

FACE OF STL COL.

2" MAX.

CONT. XXX5137-43 W/ P.A.F. @ 16" O.C.

℄ COL.

WALL OPN'G

C.F.S. STUD ABOVE HDR & BELOW SILL

XXXT125-43 W/ P.A.F. @ 16" O.C. ABOVE HDR & BELOW SILL

STL COL. OR HDR BM OR SILL BM

#8 SCREW @ 6" O.C. EA. SIDE

CONT. XXXT250-54

b CONDITION AT OPENING

7/S21-11 DETAIL
NO SCALE

#8 SCREW @ 6" O.C. STAGGERED - AT BRG WALLS PROVIDE MIN. OF 50% SCREW COUNT PER PLAN AND 3/S21-10

2-12 2-12 TYP.

#8 SCREW @ 6" O.C. EA. FLANGE - AT BRG WALLS PROVIDE MIN. OF 50% SCREW COUNT PER PLAN AND 3/S21-10

43 MIL MIN. TRACK ON PENETRATION SIDE (FULL HT OF JAMB) OR MATCH STUD THICKNESS WHICHEVER IS GREATER - MIN. FLANGE WIDTH = 1¼"

#8 SCREW @ 6" O.C. EA. FLANGE

BOXED JAMBS (2 OR MORE STUDS)

BACK-TO-BACK JAMBS (2 STUDS)

BACK-TO-BACK JAMBS (3 OR MORE STUDS)

NOTE:
FOR JAMB STUD SIZE AND QUANTITY SEE SCHEDULE 3/S21-10

TYPICAL JAMB STUD CONFIGURATIONS AT BEARING WALLS

8/S21-11 DETAIL
NO SCALE

Perkins&Will

1301 5th Ave
#2300, Seattle,
WA 98101
t +12063816000
www.perkinswill.com

INMAN FOOD SERVICES
3807 Charlotte Avenue,
Nashville, Tennessee 37209

AHBL
1200 6th Ave #1620,
Seattle, WA 98101

PCS
1011 Western Avenue, Suite 810
Seattle WA 98104

SELLEN
227 Westlake Ave,
Seattle, WA 98109

MACDONALD MILLER
1004 Madison St,
Seattle, WA 98104

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1004 Madison St,
Seattle, WA 98104

EBD SERVICES
14900 Interurban Ave S, #143
Seattle, WA 98168

TURNER & TOWNSEND
920 Fifth Avenue,
Seattle, WA, 98104

REGISTERED PROFESSIONAL ENGINEER
JOHN PAUL LABOSKI
STATE OF WASHINGTON
49217

PHASE 2 PERMIT SET 07/08/2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

COLD FORMED STEEL FRAMING DETAILS

SHEET NUMBER

S21-11

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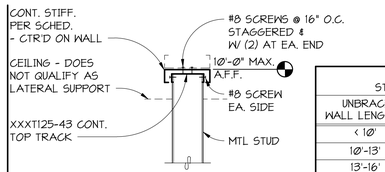
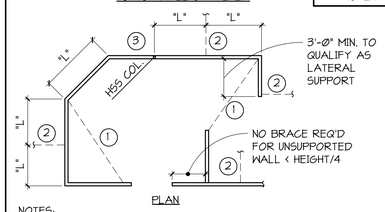


TOP OF WALL STIFFENER

TOP OF WALL STIFFENER SCHEDULE	
UNBRACED WALL LENGTH "L"	STIFFENER MEMBER CONTINUOUS
< 10'	NONE REQ'D
10'-13'	600S137-33
13'-16'	(2) 600S137-33
16'-24'	(2) 800S162-43



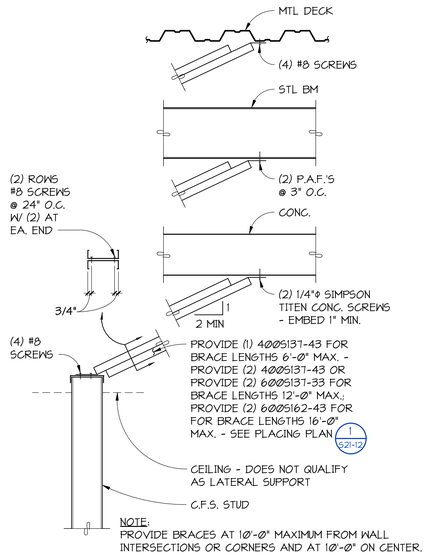
PLAN

NOTES:

1. THIS PLAN IS AN EXAMPLE ONLY. IT DOES NOT REPRESENT A SPECIFIC WALL.
2. "L" INDICATES UNBRACED LENGTH OF WALLS - SEE SCHEDULE FOR TOP OF WALL STIFFENER SIZE.
3. AT CONTRACTORS OPTION, IN LIEU OF TOP OF WALL STIFFENER:
   - (1) INDICATES HORIZONTAL BRACE EXTENDING TO ADJACENT CORNER - SEE 3/S21-12.
   - (2) INDICATES BRACE UP TO STRUCTURE - SEE 2/S21-12.
   - (3) INDICATES WALL BRACED AT HOLLOW STRUCTURAL SECTION COLUMN - PROVIDE L2"x2"x1/2" LESS THAN STUD WIDTH x54MIL. WITH (4) #8 SCREWS TO TOP TRACK. - WELD CONNECTION ANGLE TO HOLLOW STRUCTURAL SECTION COLUMN OR PROVIDE (4) POWER ACTUATED FASTENERS AT CONTRACTOR'S OPTION.
4. ALL TOP TRACK SPLICES SHALL BE AT BRACE LOCATIONS.

TYPICAL LATERAL SUPPORT FOR COLD-FORMED STEEL STUD WALLS NOT EXTENDING TO STRUCTURE ABOVE

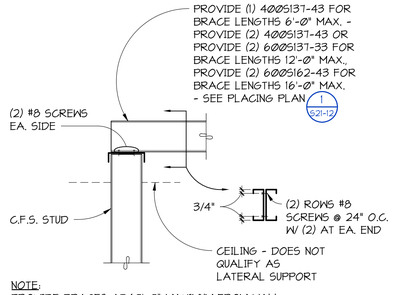
1 S21-12 **DETAIL** NO SCALE



NOTE:
PROVIDE BRACES AT 10'-0" MAXIMUM FROM WALL INTERSECTIONS OR CORNERS AND AT 10'-0" ON CENTER.

TYPICAL COLD-FORMED STEEL STUD WALL BRACE UP TO STRUCTURE

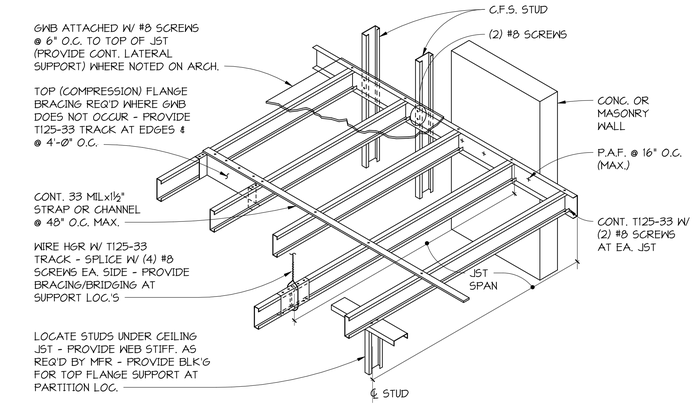
2 S21-12 **DETAIL** NO SCALE



NOTE:
PROVIDE BRACES AT 10'-0" MAXIMUM FROM WALL INTERSECTIONS OR CORNERS AND AT 10'-0" ON CENTER.

TYPICAL COLD-FORMED STEEL STUD WALL HORIZONTAL BRACE

3 S21-12 **DETAIL** NO SCALE



TYPICAL COLD-FORMED STEEL CEILING FRAMING DETAIL

COLD-FORMED STEEL JOIST CEILING FRAMING SCHEDULE 10 POUNDS PER SQUARE FOOT (ASD) LIVE LOAD, 1/240 DEFLECTION LIMIT, (2) LAYERS MAXIMUM OF 5/8" GYPSUM WALL BOARD

JOIST SIZE	STUD MIL											
	18 MIL						33 MIL					
	JOIST SPACING											
	12" O.C.		16" O.C.		24" O.C.		12" O.C.		16" O.C.		24" O.C.	
	NUMBER OF CONTINUOUS SPANS											
	ONE	TWO+	ONE	TWO+	ONE	TWO+	ONE	TWO+	ONE	TWO+	ONE	TWO+
	MAXIMUM JOIST SPAN ALLOWED											
250S	6'-9"	6'-11	5'-4"	5'-9"	-	4'-4"	8'-3"	10'-0"	7'-6"	8'-9"	6'-4"	7'-1"
362S	7'-3"	6'-8"	5'-5"	5'-3"	-	-	11'-0"	13'-3"	10'-0"	11'-6"	8'-4"	9'-4"
400S	9'-0"	6'-3"	7'-6"	4'-10"	5'-0"	-	11'-11"	14'-3"	10'-10"	12'-4"	9'-0"	9'-9"
600S	-	-	-	-	-	-	16'-6"	16'-10"	14'-9"	13'-10"	12'-0"	10'-2"

NOTES:
1. BRACE TOP FLANGE AT 48" ON CENTER MAXIMUM.
2. INFORMATION SHOWN TAKEN FROM THE GYPSUM CONSTRUCTION HAND BOOK BY CGC INCORPORATED.
3. SEE ARCHITECTURAL DRAWING FOR LATERAL SUPPORT OF SUSPENDED FRAMING.

4 S21-12 **DETAIL** NO SCALE

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PHASE 2 PERMIT SET 07/08/2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

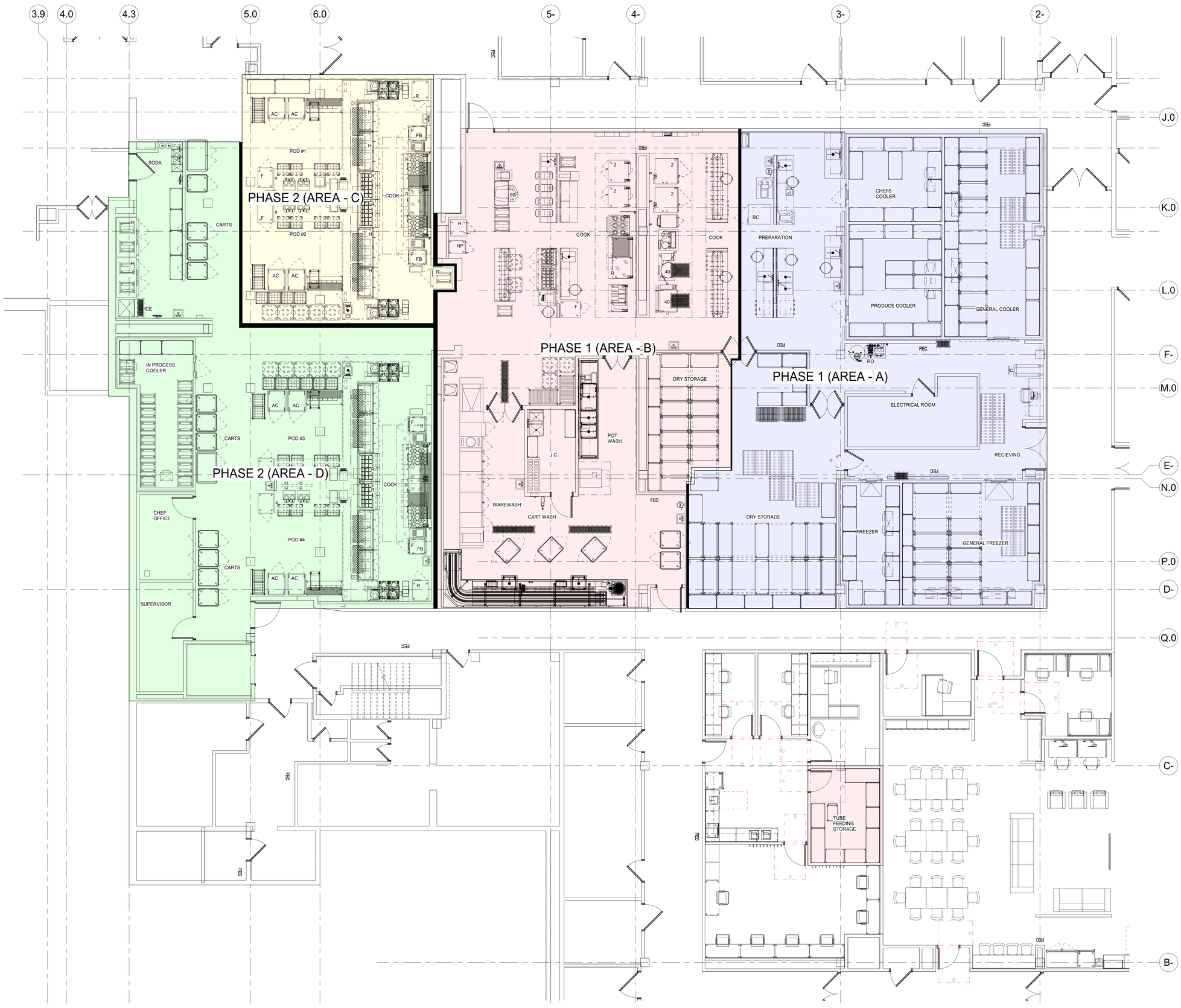
TITLE

NON-BEARING COLD FORMED STEEL DETAILS

SHEET NUMBER

S21-12

7/8/2025 11:31:22 AM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/STRU-MultiCare-Kitchen-R25.rvt



1 OVERALL FINAL EQUIPMENT PLAN
3/16" = 1'-0"

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Hospital Kitchen
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Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

100% CD SET 6/30/2025

KEY PLAN

ISSUE CHART

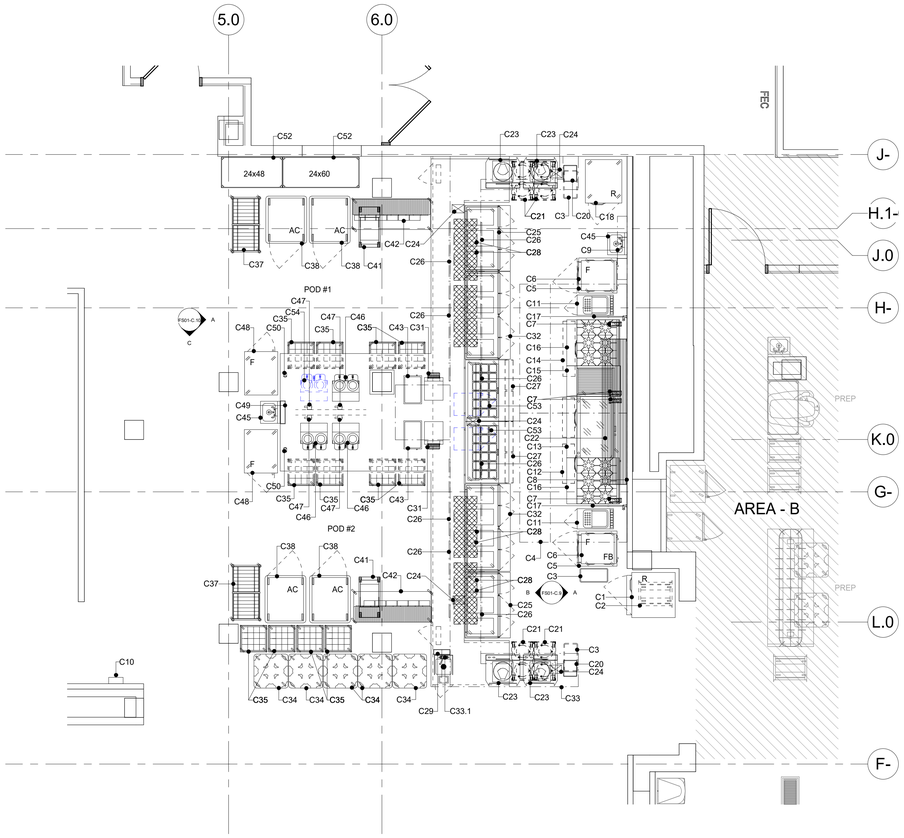
MARK	ISSUE	DATE
Job Number		24127

TITLE

OVERALL COMPLETE

SHEET NUMBER

FS01-000



1 PHASE 2 (AREA - C) EQUIPMENT PLAN
1/4" = 1'-0"

PHASE 2 (AREA - C) SHEET INDEX

NUMBER	NAME
FS01-C.1	PHASE 2 (AREA - C) EQUIPMENT PLAN AND SCHEDULE
FS01-C.2	PHASE 2 (AREA - C) PLUMBING PLAN AND SCHEDULE
FS01-C.3	PHASE 2 (AREA - C) ELECTRICAL PLAN AND SCHEDULE
FS01-C.4	PHASE 2 (AREA - C) SPECIAL CONDITIONS PLAN AND VENTILATION SCHEDULE
FS01-C.5	PHASE 2 (AREA - C) HOOD DETAILS 4 OF 6 HALTON DOCUMENTS
FS01-C.6	PHASE 2 (AREA - C) DEMAND CONTROL DETAILS 6 OF 6 HALTON DOCUMENTS
FS01-C.7	PHASE 2 (AREA - C) DETAILS AND WALL BACKING DETAILS
FS01-C.8	PHASE 2 (AREA - C) ELEVATON AND ISOMETRIC VIEWS
FS01-C.9	PHASE 2 (AREA - C) ELEVATION AND ISOMETRIC VIEWS
FS01-C.10	PHASE 2 (AREA - C) ELEVATION AND ISOMETRIC VIEWS

PHASE 2 (AREA - C) SCHEDULE OF EQUIPMENT

ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL NUMBER	REMARKS
C1	1	ROLL-IN REFRIGERATOR	CONTINENTAL	D1RINSS	W/ EXPANSION VALVE / E-CONTROL MONITORING
C2	1	MOBILE PAN RACK	METRO	RF3N	-
C3	3	SLIM JIM TRASH RECEPTACLE W/ LID	-	-	BY OWNER
C4	1	ROOM SERVICE EXHAUST HOOD	HALTON	KVE	-
C5	2	WORKTOP FREEZER W/ S/S INTERIOR	CONTINENTAL	SWF27N	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING
C6	2	FLASH BAKE OVEN	TURBOCHEF	i3	-
C7	(2) SETS	WHEEL POSITION DEVICE	T&S BRASS	POSI-SET	-
C8	LOT	S/S WALL FLASHING	FABRICATOR	CUSTOM	-
C9	1	FIRE SUPPRESSION SYSTEM	ANSUL	R-102	FOR ITEM #C4
C10	1	M.A.R.V.E.L. CONTROL PANEL	HALTON	CUSTOM	-
C11	2	PASTA COOKER	ARCOBALENO	APCE28	-
C12	1	REFRIGERATED EQUIPMENT STAND	CONTINENTAL	D84GN	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING
C13	1	COUNTER TOP GRIDDLE W/ THERMOSTAT	MONTAGUE	DG2448-SAT	W/ 8" PLATE SHELF
C14	1	REFRIGERATED EQUIPMENT STAND	CONTINENTAL	D60GN	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING
C15	1	COUNTER TOP CHAR BROILER	MONTAGUE	UFLC-24R	W/ 8" PLATE SHELF
C16	2	COUNTER TOP 6-BURNER RANGE	MONTAGUE	C36-5	W/ 8" PLATE SHELF
C17	2	POT FILLER	T&S BRASS	B-0594-CR	-
C18	1	REFRIGERATOR	CONTINENTAL	D1RENSS	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING
C19	-	SPARE NUMBER	-	-	-
C20	2	HALF SIZE PAN	VOLLRATH	SUPER PAN V 30262	-
C21	4	MOBILE HEATED DISH DISPENSER	CADDY	CM-S-302-H	-
C22	1	TUBULAR WALL SHELVING	FABRICATOR	CUSTOM	-
C23	4	BASE ACTIVATOR	ALADDIN	ADV700	-
C24	5	PRINTER	-	-	BY OWNER
C25	2	3-WELL HOT FOOD TABLE W/ HEATED BASE	F.W.E.	HLC-3W6-7H-21-HWR	W/ 3-1/2" CASTERS / 8" PLATE SHELF
C26	8	CHECK MINDER	ADVANCE TABCO	CM-60	-
C27	2	REFRIGERATED SANDWICH PREPARATION UNIT	CONTINENTAL	D48N18M-FB-D	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING
C28	8	HEAT LAMP W/ LIGHTS / INFINITE CONTROLS	HATCO	GRAL-48D	-
C29	1	S/S UTILITY CHASE	FABRICATOR	CUSTOM	-
C30	-	SPARE NUMBER	-	-	-
C31	2	CONVEYOR TOASTER	HATCO	TQ-10	-
C32	2	4-WELL HOT FOOD TABLE W/ HEATED BASE	F.W.E.	HLC-4W6-7H-28-HWR	W/ 3-1/2" CASTERS / 8" PLATE SHELF
C33	1	ROOM SERVICE / TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF / HAND SINK	FABRICATOR	CUSTOM	W/ (2) LOAD CENTERS
C33.1	1	DECK WORKBOARD MOUNTED FAUCET	T&S BRASS	B-1110-CR	-
C34	5	MOBILE POKER CHIP DISH DOLLY	METRO	PCD11A	-
C35	12	MOBILE CUP / GLASS RACK DOLLY	METRO	D2121C	-
C36	-	SPARE NUMBER	-	-	-
C37	2	MOBILE DOME STORAGE RACK	ALADDIN	SR100	-
C38	4	AIR-CURTAIN REFRIGERATOR	F.W.E.	ASU-10	W/ CASTERS / E-CONTROL MONITORING
C39	-	SPARE NUMBER	-	-	-
C40	-	SPARE NUMBER			-
C41	2	MOBILE TRAY LOWERATOR	CADDY	CM-2015-C	-
C42	2	TRAY STARTER STATION	METRO	INM-STARTER 2460FS	-
C43	2	COUNTERTOP HOT FOOD WELL	VOLLRATH	72000	-
C44	-	SPARE NUMBER	-	-	-
C45	2	HAND SINK W/ SIDE SPLASHES	ADVANCE TABCO	7-PS-66W	-
C46	3	COFFEE BREWER W/ URNS	-	-	BY VENDOR
C47	4	WATER FILTER	EVERPURE	QTCR-1	-
C48	2	FREEZER	CONTINENTAL	D1FNSSGD	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING
C49	1	S/S UTILITY CHASE	FABRICATOR	CUSTOM	-
C50	2	SCANNER	-	-	BY OWNER
C51	-	SPARE NUMBER	-	-	-
C52	LOT	POD STORAGE SHELVING	METRO	MAX Q	W/ SOLID BOTTOM SHELF
C53	2	MICROWAVE OVEN	MENUMASTER	MDC182	EXISTING RELOCATED
C54	1	COFFEE BREWER W/ URNS	-	-	EXISTING RELOCATED

GENERAL NOTES

PLEASE DISREGARD ANY NOTES THAT DO NOT APPLY TO THIS PROJECT

DIMENSION SHOWN ARE DESIGN PURPOSES ONLY & ARE TO BE CONSIDERED FROM FINISHED WALLS. ALL DIMENSIONS GIVEN MUST BE FIELD VERIFIED BEFORE FINAL PLANS ARE SUBMITTED.

THESE DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTIONS W/THE WRITTEN FOODSERVICE EQUIPMENT SPECIFICATIONS AS WRITTEN BY INMAN FOODSERVICES GROUP & IN COORDINATION W/ARCHITECTURAL/ENGINEERING DRAWINGS AS AN AID TO ALL CONTRACTORS INVOLVED W/FOODSERVICE EQUIPMENT.

INDICATED MECHANICAL, ELECTRICAL & PLUMBING INFORMATION & OUTLETS HAVE BEEN LOCATED AS ACCURATELY AS CAN BE DETERMINED & ARE INTENDED TO SUIT REQUIREMENTS OF FIXTURES & EQUIPMENT AS SPECIFIED IN THIS CONTRACT DOCUMENT SET. INMAN FOODSERVICES GROUP SHALL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES WHICH MAY DEVELOP BETWEEN LOCATIONS OF CONNECTIONS SHOWN & ACTUAL LOCATIONS OF CONNECTIONS OF FIXTURE FURNISHED.

CONNECTIONS SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS ON FIXTURES, EXCEPT WHERE OTHERWISE NOTED & ALLOWANCES MUST BE MADE FOR TRAPS, VALVES, SWITCHES OR OTHER CONNECTIONS REQUIREMENTS SO AS NOT TO INTERFERE W/OPERATIONS OF ITEMS OF FOODSERVICE EQUIPMENT.

KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH THE DIMENSIONED EQUIPMENT LAYOUT PLAN & MECHANICAL, ELECTRICAL & PLUMBING ROUGH-IN DRAWINGS AS PER THE WRITTEN SPECIFICATIONS AS DETAILED UNDER 1.22 SUBMITTALS REQUIREMENTS & APPROVALS.

THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DISCREPANCIES BETWEEN THE CONNECTIONS SHOWN HEREIN & THOSE REQUIRED FOR THE ACTUAL EQUIPMENT FURNISHED AS A RESULT OF SUBSTITUTIONS OR CHANGES INITIATED BY THE KITCHEN EQUIPMENT CONTRACTOR. THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ANY & ALL RE-ENGINEERED OR REDESIGN COST INCURRED BY SAID SUBSTITIONS OR CHANGES.

CONNECTIONS, LOADS & CONSUMPTION SHOWN ON UTILITY CONNECTIONS PLANS ARE FOR ONE UNIT. TO DETERMINE TOTAL REQUIREMENTS MULTIPLY BY NUMBER IN EQUIPMENT SPECIFICATIONS.

CONSUMPTION RATES SHOWN ON CONNECTION PLANS ARE MAXIMUM RATES ONLY. ACTUAL CONSUMPTION WILL DEPEND UPON THE TOTAL HOURS THE VARIOUS EQUIPMENT ITEMS ARE OPERATED.

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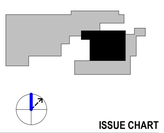
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

PHASE 2 (AREA - C) EQUIPMENT PLAN AND SCHEDULE

SHEET NUMBER

FS01-C.1

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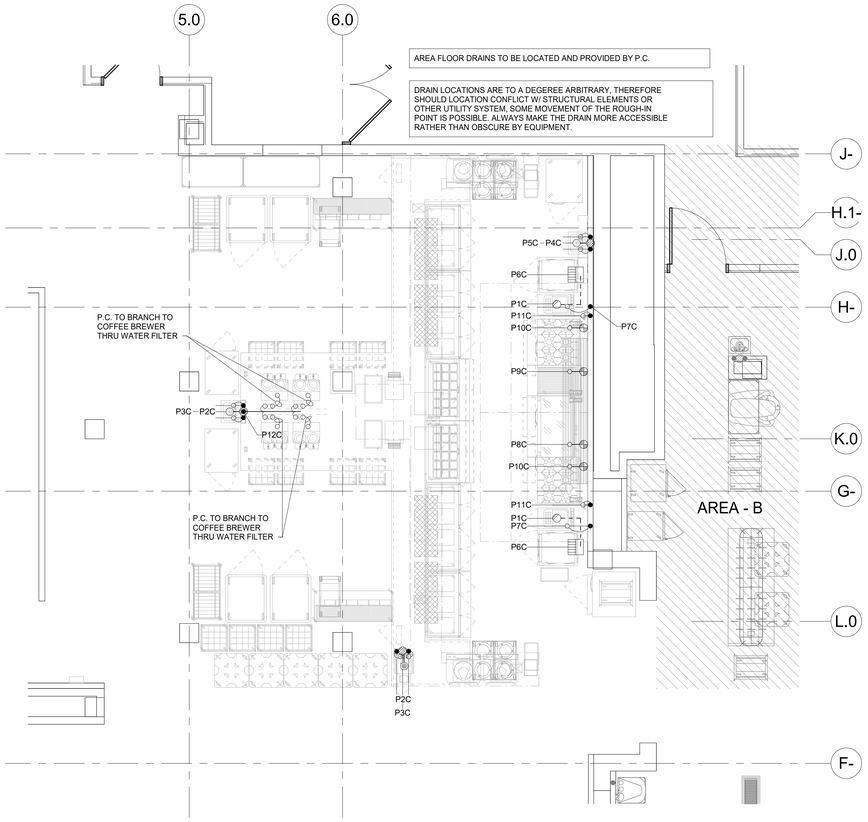

1 PHASE 2 (AREA - C) PLUMBING PLAN
1/4" = 1'-0"

PHASE 2 (AREA - C) PLUMBING CONNECTIONS SCHEDULE

NUMBER	SIZE	DESCRIPTION	LOCATION	A.F.F.	SERVICE TO	ITEM NO.	REMARKS
P1C	1"	INDIRECT WASTE	-	-	AIR GAP DRAIN	-	-
P2C	1/2"	HOT & COLD WATER	FA	CLG	HAND SINK	C33 / C45	P.C. TO BRANCH TO CONNECTION AS REQUIRED THRU-S/S CHASE
P3C	1-1/2"	DIRECT WASTE	FLOOR	STUB	HAND SINK	C33 / C45	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P4C	1/2"	HOT & COLD WATER	WALL	20"	HAND SINK	C45	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P5C	1-1/2"	DIRECT WASTE	WALL	22"	HAND SINK	C45	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P6C	-	FLOOR SINK	-	-	-	-	-
P7C	3/4"	COLD WATER	WALL	18"	PASTA COOKER	C11	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P8C	3/4"	GAS @ 120,000 BTU	WALL	18"	COUNTER TOP GRIDDLE	C13	P.C. TO BRANCH TO CONNECTION AS REQUIRED / PROVIDE QUICK DISCONNECT
P9C	1"	GAS @ 76,000 BTU	WALL	18"	COUNTER TOP CHAR BROILER	C15	P.C. TO BRANCH TO CONNECTION AS REQUIRED / PROVIDE QUICK DISCONNECT
P10C	1"	GAS @ 180,000 BTU	WALL	18"	COUNTER TOP 6-BURNER RANGE	C16	P.C. TO BRANCH TO CONNECTION AS REQUIRED / PROVIDE QUICK DISCONNECT (QTY. 2)
P11C	1/2"	COLD WATER	WALL	54"	POT FILLER	C17	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P12C	3/4"	COLD WATER	FA	CLG	WATER FILTER	C47	P.C. TO BRANCH TO CONNECTION AS REQUIRED THRU S/S CHASE

PLUMBING NOTES

PLEASE DISREGARD NOTES THAT DO NOT APPLY TO THIS PROJECT

ALL DIMENSIONS ARE FROM FINISHED WALLS, FLOORS, CEILINGS &/OR FROM CENTERLINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR & ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO-FINISH" UNLESS OTHERWISE NOTED.

UTILITIES SHOWN ARE FOR ITEMS OF FOODSERVICE EQUIPMENT ONLY & ARE THE MINIMUM REQUIRED TO OPERATE EQUIPMENT. LOCATIONS OF ANY ADDITIONAL PLUMBING UTILITIES WHICH MAY BE REQUIRED SHALL BE DETERMINED BY THE ARCHITECT/ ENGINEER.

PLUMBING PLAN SHOWS OUTLET & CONNECTIONS LOCATIONS W/CAPACITIES. FOR ACTUAL ROUGH-IN LOCATIONS, REFER TO DIMENSIONED DRAWINGS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR.

FINAL PLUMBING CONNECTIONS INCLUDING MOUNTING OF DRAINS, FAUCETS & PIPING FROM POINT-OF-CONNECTIONS ON EQUIPMENT TO BUILDING PLUMBING SYSTEM & INTERCONNECTIONS BETWEEN EQUIPMENT COMPONENTS SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

PLUMBING CONTRACTOR SHALL PROVIDE FINAL INTERCONNECTIONS BETWEEN EQUIPMENT & UTILITY DISTRIBUTION SYSTEM. QUICK DISCONNECT HOSES SHALL BE FURNISHED LOOSE BY THE KITCHEN EQUIPMENT CONTRACTOR.

ALL PLUMBING MATERIALS, INCLUDING PIPE, TRAPS, STOPS, VALVES, FITTINGS, SHUT-OFFS, WATER HAMMER ARRESTORS, PRESSURE REDUCING VALVES, GAUGES, UNIONS & INSULATION SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

PLUMBING CONTRACTOR SHALL INSTALL ALL FAUCETS & PLUMBING ACCESSORIES PROVIDED LOOSE BY KITCHEN EQUIPMENT CONTRACTOR.

UTILITIES (GAS, WATER & STEAM) SHALL BE CONCEALED IN WALLS & STUBBED-OUT OF FINISHED WALLS. 6" PIPING STUBBED OUT OF THE FLOOR OR WALL & RUN EXPOSED SHALL NOT BE ACCEPTABLE & IS IN VIOLATION OF HEALTH DEPARTMENT CODES. ALL PENETRATIONS SHALL BE SEALED & WATER TIGHT.

ALL EXPOSED PIPING SHALL BE CHROME PLATED TO SATISFY LOCAL HEALTH DEPARTMENT.

PLUMBING COMPONENTS, PROVIDED BY PLUMBING CONTRACTOR INCLUDING VALVES, TRAPS, SHUT-OFFS, GAUGES AND CONNECTIONS SHALL NOT INTERFERE IN ANY WAY W/THE OPERATION OF ITEMS OF FOODSERVICE.

WATER PRESSURE IN EQUIPMENT AREA SHOULD NOT EXCEED 50 PSI IN BOTH HOT & COLD WATER SUPPLY LINES. THE WATER PRESSURE TO DISHWASHERS, GLASSWASHERS & BOOSTER HEATERS SHOULD NOT EXCEED 25 PSI. PRESSURE REDUCING VALVES PROVIDED BY PLUMBING CONTRACTOR MUST MEET EQUIPMENT MANUFACTURER'S FLOOR RECOMMENDATIONS.

FLOOR SINKS SHALL BE INSTALLED FLUSH W/FINISHED FLOOR W/OR WITHOUT GRATE COVER AS INDICATED ON PLAN.

ALL LINES SHALL BE FLUSHED FREE OF FOREIGN MATTER & LINE STRAINERS & FAUCET AERATORS CLEANED PRIOR TO MAKE-UP OF FINAL UTILITY CONNECTIONS BY PLUMBING CONTRACTOR.

GREASE TRAPS SHALL BE PROVIDED BY PLUMBING CONTRACTOR & SHALL BE RECESS-MOUNTED, FLUSH W/TOP OF FINISHED FLOOR. GREASE TRAPS SHALL NOT BE LOCATED BENEATH ANY ITEM OF FOODSERVICE EQUIPMENT & THE REMOVAL OF COVER SHALL NOT INTERFERE W/THE OPERATIONS OF ANY FOODSERVICE EQUIPMENT ITEMS.

ALL DRAIN LINES FOR DISPOSERS SHALL BY-PASS GREASE TRAPS.

HOT WATER TEMPERATURE TO BOOSTER HEATER, DISHMACHINE & GLASSWASHER MUST BE 110F. HOT WATER LINE FROM BOOSTER HEATER TO GLASSWASHER/DISHMACHINE SHALL BE PROVIDED W/WATER HAMMER ARRESTOR (ASSE-1010 STD) @ CONNECTION TO DISHWASHER & SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

DRAIN LINES FROM EVAPORATOR COILS (QUICK-FALL TYPE) SHALL BE TRAPPED OUTSIDE OF WALK-IN FREEZER/COOLER ASSEMBLIES & EXTENDED OVER BUILDING DRAIN BY PLUMBING CONTRACTOR. ALL PENETRATIONS IN WALK-IN FREEZER/COOLER ASSEMBLIES SHALL BE MADE BY KITCHEN EQUIPMENT CONTRACTOR. REFER TO EVAPORATOR COIL DETAIL.

TRENCH-TYPE DRAIN TROUGH SHALL BE FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR TO THE G.C. FOR INSTALLATION. PLUMBING CONTRACTOR SHALL PROVIDE DRAIN CONNECTIONS AS SHOWN ON DETAILS.

GAS MAIN SHALL BE PROVIDED W/A READILY ACCESSIBLE MANUAL SHUT-OFF VALVE BY PLUMBING CONTRACTOR. LOCATION OF VALVE TO BE COORDINATED W/FOODSERVICE CONSULTANT. A LOOPED GAS SERVICE IS RECOMMENDED TO PROVIDE FOR BALANCED FUEL DISTRIBUTION. SIZE OF GAS LINE TO BE DETERMINED BY ARCHITECT/ENGINEER. SEE PLUMBING SCHEDULE FOR BTU/HOUR REQUIREMENTS.

PLUMBING CONTRACTOR SHALL PROVIDE MANUAL GAS SHUT-OFF DEVICES @ EACH INDIVIDUAL PIECE OF EQUIPMENT NOT BATTERED TOGETHER. LOCATION OF FUEL SHUT-OFF VALVES TO BE COORDINATED W/FOODSERVICE CONSULTANT. GAS PRESSURE REDUCING VALVES REQUIRED FOR EACH INDIVIDUAL PIECE OF COOKING EQUIPMENT SHALL BE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR FOR INSTALLATION BY PLUMBING CONTRACTOR.

FOR VENTILATION FIRE SUPPRESSION SYSTEM W/GAS HEATED COOKING EQUIPMENT, PLUMBING CONTRACTOR SHALL INSTALL MECHANICAL FUEL SHUT-OFF VALVE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR IN GAS LINES SERVING COOKING EQUIPMENT. LOCATION OF FUEL SHUT-OFF VALVES TO BE COORDINATED W/FOODSERVICE CONSULTANT. KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE REMOTE MANUAL PULL STATION, & MICRO-SWITCH. GAS SHUT-OFF VALVE SHALL BE MECHANICALLY ACTIVATED IN CASE OF FIRE BY MECHANICAL/PNEUMATIC MECHANISM. ANY & ALL ELECTRICAL INTERCONNECTING REQUIRED FOR FAN CONTROL &/OR ALARM SYSTEMS SHALL BE BY ELECTRICAL CONTRACTOR.

DISPOSER &/OR WASTE PULPER DRAIN LINES SHALL BE PROVIDED W/ADEQUATE CLEANOUT FITTINGS.

INTERPIPING BETWEEN DISPOSER SOLENOID VALVE, DISPOSER & TROUGH &/OR SINK INLETS SHALL BE PROVIDED BY PLUMBING CONTRACTOR. SEE DETAILS FOR ADDITIONAL INFORMATION.

PLUMBING CONTRACTOR SHALL FURNISH & INSTALL ALL BELOW GRADE 6" BEVERAGE CONDUITS AS INDICATED W/24" MINIMUM SWEEPING BENDS, CUT OFF CONDUIT 6" A.F.F. & CAP OFF CONDUIT MUST BE WATER TIGHT & MATERIAL MUST MEET ALL LOCAL & STATE CODES.

PLUMBING SYMBOLS

COLD WATER	CW	●
HOT WATER	HW	●
COOLING TOWER WATER	CTW	●
COOLING TOWER WATER RETURN	CTWR	●
WASTE	W	◍
INDIRECT WASTE	IW	◌
HUB DRAIN/AIR GAP DRAIN	HD/AGD	○
FLOOR DRAIN	FD	◎
FUNNEL-TYPE FLOOR DRAIN	FFD	⊚
FLOOR SINK - 1/2 GRATE	FS	▦
STEAM SUPPLY	SS	⊘
CONDENSATE RETURN	CR	⊙
GAS SUPPLY	G	⊕
POINT OF CONNECTION		⌒

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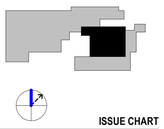
MultiCare Good Samaritan Hospital

MULTICARE

100% CD SET 6/30/2025

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

PHASE 2 (AREA - C) PLUMBING PLAN AND SCHEDULE

SHEET NUMBER

FS01-C.2

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PHASE 2 (AREA - C) ELECTRICAL CONNECTIONS SCHEDULE

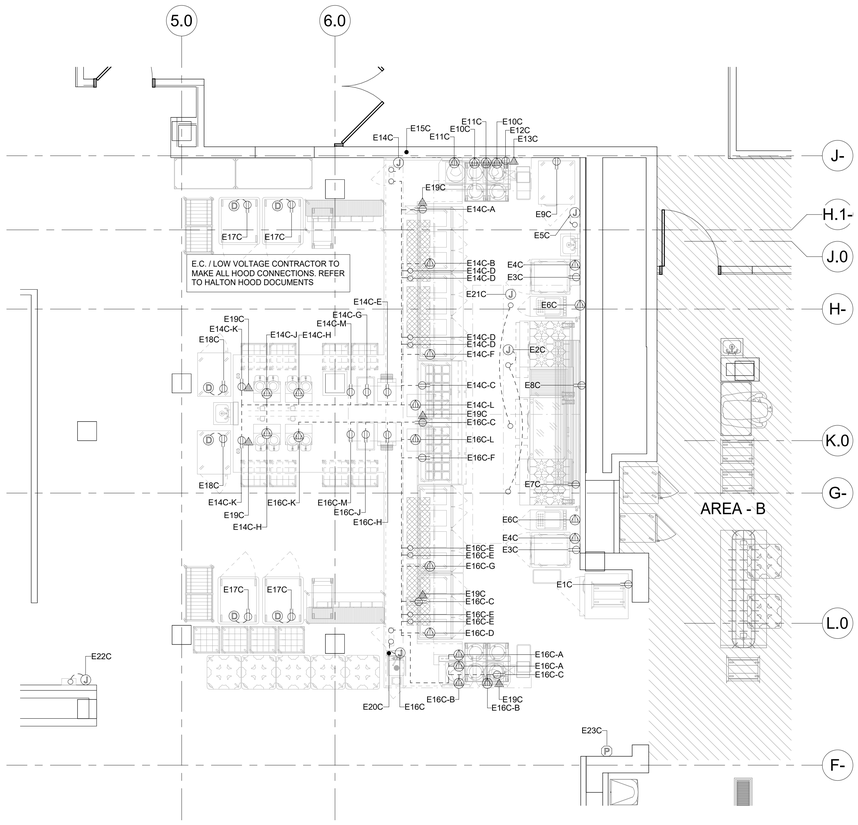
NUMBER	CONNECTION	SERVICE TO	ITEM NO.	HP	KW	AMPS	VOLT	PHASE	LOCATION	A.F.F.	REMARKS
E1C	DUPLEX	ROLL-IN REFRIGERATOR	C1	1/3	-	6.3	120	1	WALL	80"	-
E2C	JUNCT. BOX	HOOD LIGHTS	C4	-	-	15.0	120	1	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E3C	DUPLEX	WORK TOP FREEZER	C5	1/4	-	4.8	120	1	WALL	18"	-
E4C	SINGLE	FLASH BAKE OVEN	C6	-	-	30.0	208	1	WALL	50"	-
E5C	JUNCT. BOX	FIRE SUPPRESSION SYSTEM	C9	-	-	10.0	120	1	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E6C	SINGLE	PASTA COOKER	C11	-	7.8	19.5	208	3	WALL	18"	-
E7C	DUPLEX	REFRIGERTAED EQUIPMENT STAND	C12	1/4	-	4.2	120	1	WALL	18"	-
E8C	DUPLEX	REFRIGERATED EQUIPMENT STAND	C14	1/4	-	4.2	120	1	WALL	18"	-
E9C	DUPLEX	REFRIGERATOR	C18	1/4	-	5.1	120	1	WALL	76"	-
E10C	SINGLE	MOBILE HEATED PLATE DISPENSER	C21	-	.950	4.6	208	1	WALL	18"	-
E11C	SINGLE	BASE ACTIVATOR	C23	-	7.8	23.5	208	3	WALL	56"	-
E12C	DUPLEX	PRINTER (DEDICATED CURCUIT)	C24	-	-	15.0	120	1	WALL	68"	E.C. TO VERIFY LOADS OF OWNER SUPPLIED EQUIPMENT W/ OWNER
E13C	COMMUNICATION DATA PORT	PRINTER	-	-	-	-	-	-	WALL	68"	E.C. TO VERIFY REQUIREMENTS W/OWNER/OPERATOR EDP/POS PLANS
E14C	JUNCT. BOX	ROOM SERVICE COUNTER LOAD CENTER	C33	-	-	-	120/208	3	WALL	18"	E.C. TO BRANCH TO CONNECTION AS REQUIRED - REFER TO E14C LOAD CENTER SCHEDULE
E15C	-	EMPTY CONDUIT FOR EDP/POS SYSTEMS & PRINTERS	-	-	-	-	-	-	WALL	18"	E.C. TO BRANCH TO E19C COMMUNICATION DATA PORT / VERIFY REQUIREMENTS W/OWNER/OPERATOR EDP/POS PLANS
E16C	JUNCT. BOX	ROOM SERVICE COUNTER LOAD CENTER	C33	-	-	-	120/208	3	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED - REFER TO E16C LOAD CENTER SCHEDULE
E17C	DC / DUPLEX	AIR CUTAIN REFRIGERATOR	C38	-	-	8.5	120	1	FA	CLG	E.C. TO PROVIDE DROP CORD AS REQUIRED
E18C	DC / DUPLEX	FREEZER	C48	1/2	-	7.1	120	1	FA	CLG	E.C. TO PROVIDE DROP CORD AS REQUIRED
E19C	COMMUNICATION DATA PORT	PRINTERS / SCANNERS	-	-	-	-	-	-	-	-	-
E20C	-	EMPTY CONDUIT FOR EDP/POS SYSTEMS & PRINTERS	-	-	-	-	-	-	FA	CLG	E.C. TO BRANCH TO E19C COMMUNICATION DATA PORT / VERIFY REQUIREMENTS W/OWNER/OPERATOR EDP/POS PLANS
E21C	JUNCT. BOX	HOOD CONTROLLER	C4	-	-	15.0	120	1	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E22C	JUNCT. BOX	M.A.R.V.E.L. CONTROL PANEL	C10	-	-	10.0	120	1	WALL	60"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E23C	-	EMPTY OCTAGON BOX FOR REMOTE PULL STATION	-	-	-	-	-	-	WALL	48"	PER LOCAL CODES

PHASE 2 E14C LOAD CENTER ELECTRICAL CONNECTIONS SCHEDULE

NUMBER	CONNECTION	QTY	SERVICE TO	ITEM NO.	HP	KW	AMPS	VOLT	PHASE	REMARKS
E14C-A	DUPLEX	1	PRINTER (DEDICATED CURCUIT)	C24	-	-	15.0	120	1	E.C. TO VERIFY LOADS OF OWNER SUPPLIED EQUIPMENT W/ OWNER
E14C-B	SINGLE	1	3-WELL HOT FOOD TABLE W/ HEATED BASE	C25	-	4.641	19.3	208	1	-
E14C-C	DUPLEX	1	REFRIGERATED SANDWICH PREPARATION UNIT	C27	1/4	-	4.8	120	1	-
E14C-D	JUNCT. BOX	4	HEAT LAMP W/ HEAT LAMP / INFINITE CONTROLS	C28	-	1.840	9.7	120/208	1	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E14C-E	DUPLEX	1	CONVEYOR TOASTER	C31	-	1.8	15.0	120	1	-
E14C-F	SINGLE	1	4-WELL HOT FOOD CABINET W/ HEATED BASE	C32	-	6.188	25.8	208	1	-
E14C-G	DUPLEX	1	COUNTER TOP HOT FOOD WELL	C43	-	1.0	8.3	120	1	-
E14C-H	SINGLE	2	COFFEE BREWER	C46	-	-	30.0	120/208	1	E.C. TO VERIFY LOADS OF VENDOR SUPPLIED EQUIPMENT W/ OWNER
E14C-J	SINGLE	1	COFFEE BREWER	C54	-	-	30.0	120/208	1	E.C. TO VERIFY LOADS OF EXISTING RE-LOCATED EQUIPMENT W/ OWNER
E14C-K	DUPLEX	2	SCANNER (DEDICATED CURCUIT)	C50	-	1.8	15.0	120	1	E.C. TO VERIFY LOADS OF OWNER SUPPLIED EQUIPMENT W/ OWNER
E14C-L	SINGLE	1	MICROWAVE OVEN	C53	-	-	20.0	208	1	E.C. TO VERIFY LOADS OF EXISTING SUPPLIED EQUIPMENT W/ OWNER
E14C-M	DUPLEX	1	CONVENIENCE OUTLET	-	-	-	16.0	120	1	-

PHASE 2 E16C LOAD CENTER ELECTRICAL CONNECTIONS SCHEDULE

NUMBER	CONNECTION	QTY	SERVICE TO	ITEM NO.	HP	KW	AMPS	VOLT	PHASE	REMARKS
E16C-A	SINGLE	2	MOBILE HEATED PLATE DISPENSER	C21	-	.950	4.6	208	1	-
E16C-B	SINGLE	2	BASE ACTIVATOR	C23	-	7.8	23.5	208	3	-
E16C-C	DUPLEX	3	PRINTER (DEDICATED CURCUIT)	C24	-	-	15.0	120	1	E.C. TO VERIFY LOADS OF OWNER SUPPLIED EQUIPMENT W/ OWNER
E16C-D	SINGLE	1	3-WELL HOT FOOD TABLE W/ HEATED BASE	C25	-	4.641	19.3	208	1	-
E16C-E	JUNCT. BOX	4	HEAT LAMP W/ LIGHTS / INFINITE CONTROLS	C28	-	1.840	9.7	120/208	1	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E16C-F	DUPLEX	1	REFRIGERATED SANDWICH PREPARATION UNIT	C27	1/4	-	4.8	120	1	-
E16C-G	SINGLE	1	4-WELL HOT FOOD CABINET W/ HEATED BASE	C32	-	6.188	25.8	208	1	-
E16C-H	DUPLEX	1	CONVEYOR TOASTER	C31	-	1.8	15.0	120	1	-
E16C-J	DUPLEX	1	COUNTER TOP HOT FOOD WELL	C43	-	1.0	8.3	120	1	
E16C-K	SINGLE	1	COFFEE BREWER	C46	-	-	30.0	120/208	1	E.C. TO VERIFY LOADS OF VENDOR SUPPLIED EQUIPMENT W/ OWNER
E16C-L	SINGLE	1	MICROWAVE OVEN	C53	-	-	20.0	208	1	E.C. TO VERIFY LOADS OF EXISTING SUPPLIED EQUIPMENT W/ OWNER
E16C-M	DUPLEX	1	CONVENIENCE OUTLET	-	-	-	16.0	120	1	-



1 PHASE 2 (AREA - C) ELECTRICAL PLAN
1/4" = 1'-0"

ELECTRICAL NOTES

PLEASE DISREGARD NOTES THAT DO NOT APPLY TO THIS PROJECT

ELECTRICAL SYSTEM IS DESIGNED FOR 120/208/3 VOLT, 3 PHASE, 60 HERTZ SYSTEM.

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILING &/OR FROM CENTERLINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR & ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO FINISH" UNLESS OTHERWISE NOTED.

UTILITIES SHOWN ARE FOR ITEMS FOR FOODSERVICE EQUIPMENT ONLY & ARE THE MINIMUM REQUIRED TO OPERATE EQUIPMENT. LOCATIONS OF ANY ADDITIONAL ELECTRICAL UTILITIES (CONVENIENCE RECEPTACLES, TELEPHONE JACKS, INTERCOM JACKS, ETC.) WHICH MAY BE REQUIRED SHALL BE DETERMINED BY THE ARCHITECT/ENGINEER.

ELECTRICAL PLAN SHOWS OUTLETS & CONNECTIONS W/CAPACITIES FOR ACTUAL ROUGH-IN LOCATIONS, REFER TO DIMENSIONED DRAWINGS PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR.

FINAL ELECTRICAL CONNECTIONS INCLUDING WIRING FROM POINT-OF CONNECTION ON EQUIPMENT TO BUILDING ELECTRICAL SYSTEM & INTERCONNECTIONS BETWEEN EQUIPMENT COMPONENTS SHALL E PROVIDED BY ELECTRICAL CONTRACTOR.

ALL ELECTRICAL MATERIALS, INCLUDING WIRE, CONDUIT, OVERLOAD PROTECTION, MAIN SWITCHES, SAFETY CUT-OUTS, FUSE BOXES, SHUNT-TRIP BREAKERS, DISCONNECT SWITCHES, & CONTROLS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

UTILITIES SHALL BE CONCEALED IN WALLS & STUBBED-OUT OF WALLS. WIRING STUBBED OUT OF FLOOR & RUN EXPOSED ON THE FACE OF THE WALL SHALL NOT BE ACCEPTABLE.

ELECTRICAL COMPONENTS, INCLUDING MAIN SWITCHES, FUSE BOXES, TERMINAL PANELS, DISCONNECT SWITCHES CONDUIT & CONNECTIONS SHALL NOT INTERFERE IN ANY WAY W/THE OPERATION OF ITEMS OF FOODSERVICE EQUIPMENT.

AMPERAGES INDICATED PER TOTAL FOR EACH UNIT & NOT IN ADDITION TO ANY HP &/OR KW RATINGS SHOWN.

WHERE CALLED FOR, KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH CORDS & PLUGS FOR INSTALLATION BY ELECTRICAL CONTRACTOR. NEMA NUMBERS SHOWN INDICATE THE CONFIGURATION TO BE PROVIDED FOR THE EQUIPMENT. ANY DIRECT CONNECTIONS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

ALL LIGHT FIXTURES IN FOOD STORAGE, PREPARATION, SERVICE OR DISPLAY FACILITIES, AS WELL AS UTENSIL CLEANING & STORAGE AREAS SHALL HAVE SHIELDING OVER BULBS.

KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE WALK-IN FREEZER/COOLER ASSEMBLIES COMPLETE W/OUTLET BOXES, DOOR HEATERS & ALL SYSTEM COMPONENTS PRE-WIRED TO A SINGLE POINT OF CONNECTION, ELECTRICAL CONTRACTOR SHALL PROVIDE INTERCONNECTION CONDUIT & WIRING & MAKE FINAL CONNECTIONS.

ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL POWER TO & INTERCONNECTION BETWEEN EVAPORATOR COIL, TIME CLOCK, TEMPERATURE CONTROL DEVICE, & CONDENSING UNITS, FOR WALK-IN FREEZER/COOLER ASSEMBLIES FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR.

DRAIN LINE FROM FREEZER COIL SHALL BE WRAPPED W/HEAT CABLE, TAPED & INSULATED TO PREVENT FREEZING OF CONDENSATE IN THE LINE, BY ELECTRICAL CONTRACTOR.

WALK-IN FREEZER/COOLER VAPOR-PROOF LIGHT FIXTURES ARE SHIPPED LOOSE BY KITCHEN EQUIPMENT CONTRACTOR FOR FIELD INSTALLATION & INTERWIRING AS REQUIRED BY ELECTRICAL CONTRACTOR.

ALL PENETRATIONS INTO WALK-IN FREEZER/COOLERS SHALL BE MADE BY THE KITCHEN EQUIPMENT CONTRACTOR.

ELECTRICAL CONTRACTOR SHALL SEAL ALL PENETRATIONS MADE INTO WALK-IN FREEZER/ COOLER ASSEMBLIES, REFRIGERATORS, EXHAUST VENTILATORS W/METHODS & MATERIALS AS APPROVED BY EQUIPMENT MANUFACTURER.

KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE EXHAUST VENTILATOR ASSEMBLIES COMPLETE W/CONTROL PANEL, WASH-DOWN PANEL, LIGHTS, & FIRE SUPPRESSION SYSTEM. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER TO & INTERCONNECTIONS BETWEEN VENTILATOR, CONTROL PANEL, WASH-DOWN PANEL LIGHTS, EXHAUST & SUPPLY FAN, MAGNETIC STARTERS, & ALL MISCELLANEOUS COMPONENTS. SEE PLAN & VENTILATOR SHOP DRAWINGS FOR ADDITIONAL INFORMATION.

FOR VENTILATOR FIRE SUPPRESSION SYSTEM W/ELECTRICALLY HEATED COOKING EQUIPMENT, KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE REMOTE MANUAL PULL STATION, & MICRO-SWITCH. ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL ELECTRICAL CONTACTOR &/OR SHUNT-TRIP BREAKERS & ALL INTERCONNECTION CONDUIT & WIRING FOR SHUT-OFF OF ALL ELECTRICALLY HEATED COOKING EQUIPMENT. CONTACTOR FOR SHUNT-TRIP RELAYS SHALL BE ACTIVATED IN CASE OF FIRE BY MICRO-SWITCH AS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR.

FIRE PROTECTION SYSTEM REMOTE CABLE PULL BOX SHALL BE RECESS MOUNTED OCTAGONAL J-BOX & CENTERED @ 48" A.F.F. W/1/2" EMT CONDUIT OUT OF TOP, CONCEALED IN WALL TO 6" ABOVE FINISHED CEILING, BY ELECTRICAL CONTRACTOR.

ELECTRICAL CONTRACTOR SHALL PROVIDE AN EMPTY CONDUIT BETWEEN WASTE PULPING UNIT & WASTE EXTRACTOR UNIT FOR LOW VOLTAGE CONTROL WIRING.

ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY CONDUIT W/J-BOXES FOR INSTALLATION OF OWNER SUPPLIED CASH REGISTER SYSTEM. VERIFY EXACT REQUIREMENTS W/EQUIPMENT SUPPLIER.

ELECTRICAL CONTRACTOR SHALL PROVIDE COMPUTER GRADE, ISOLATED GROUND ELECTRICAL SERVICE FOR ELECTRICAL CASH REGISTER EQUIPMENT. VERIFY EXACT REQUIREMENTS W/EQUIPMENT SUPPLIES.

ELECTRICAL RECEPTACLES SHALL BE INSTALLED W/THEIR LONG DIMENSIONS RUN HORIZONTALLY.

ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT RACEWAY SYSTEM, FOR REMOTE REFRIGERATION LINES AS INDICATED ON REFRIGERATION PLAN & DETAILS. CONDUIT SHALL HAVE 24" MINIMUM RADIUS BENDS.

ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT & POWER & CONTROL WIRING BETWEEN REMOTE LOW TEMPERATURE EVAPORATORS & REMOTE COMPRESSOR RACK. REFER TO DRAWINGS FOR DETAILS.

ELECTRICAL SYMBOLS

SINGLE RECEPTACLE, NEMA 5-20R	SR	
DUPLEX RECEPTACLE, NEMA 5-15R	DR	
SINGLE RECEPTACLE, 208V OR 480V	SR	
FLOOR RECEPTACLE	FR	
JUNCTION BOX	JB	J
DROP CORD OR CONDUIT	DC	D
CONDUIT STUB	C	•
SWITCH	S	S
INCANDESCENT LIGHT		
L.E.D. LIGHT		
POINT OF CONNECTION ON EQUIPMENT		
COMMUNICATIONS OUTLET		
VAPOR-PROOF LIGHTS		
PULL BOX-FIRE SUPRESSION		P
GREASE SENSOR	GS	

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MultiCare
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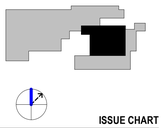
MultiCare Good Samaritan Hospital

MULTICARE

100% CD SET 6/30/2025

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

PHASE 2 (AREA - C) ELECTRICAL PLAN AND SCHEDULE

SHEET NUMBER

FS01-C.3

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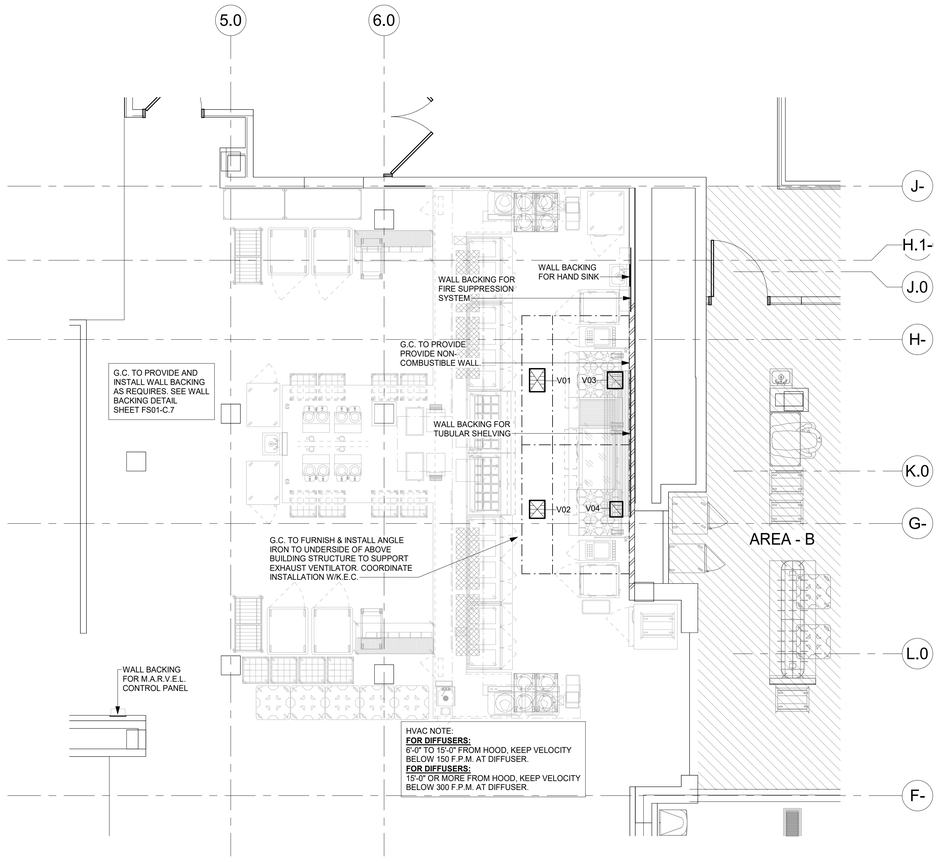

1 PHASE 2 (AREA - C) SPECIAL CONDITIONS PLAN
1/4" = 1'-0"

SPECIAL CONDITIONS NOTES

PLEASE DISREGARD NOTES THAT DO NOT APPLY TO THIS PROJECT

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILINGS &/OR FROM CENTER LINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR & ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO-FINISH" UNLESS OTHERWISE NOTED.

REFER TO ARCHITECTURAL/ENGINEERING DRAWINGS FOR ACTUAL CONSTRUCTION DIMENSIONS, LOCATION, THICKNESS & FINISH OF PARTITIONS, FURRING & FLOOR SIZES & LOCATIONS NOT INDICATED ON THE SPECIAL CONDITIONS PLAN.

CEILING SHALL BE SMOOTH, NON-ABSORBENT, WASHABLE & LIGHT COLORED, BY GENERAL CONTRACTOR.

GENERAL CONTRACTOR TO FURNISH & INSTALL ANGLE IRON TO UNDERSIDE OF BUILDING STRUCTURE ABOVE TO SUPPORT EXHAUST VENTILATOR. COORDINATE INSTALLATION W/THE KITCHEN EQUIPMENT CONTRACTOR.

DEPRESSION FOR WALK-IN FREEZER/COOLER ASSEMBLIES &/OR FLOOR TROUGHS SHALL BE SMOOTH & TRANSIT-LEVEL. REFER TO PLAN FOR SIZES, DEPTHS & ADDITIONAL INFORMATION.

CONCRETE & MASONRY BASES & CURBS SHALL BE SMOOTH & TRANSIT-LEVEL. ALL EXPOSED SURFACES SHALL BE FINISHED THE SAME AS FINISHED FLOOR. REFER TO PLAN FOR SIZES & ADDITIONAL INFORMATION.

ALL BACKING MATERIALS SUITABLE FOR WALL-MOUNTED EQUIPMENT SHALL BE PROVIDED BY GENERAL CONTRACTOR AS DETAILED.

ALL STRUCTURE SUPPORT MATERIALS & BRACING SUITABLE FOR CEILING HUNG EQUIPMENT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. COORDINATE INSTALLATION W/THE KITCHEN EQUIPMENT CONTRACTOR.

ALL RACKS &/OR PLATFORMS FOR ROOF-MOUNTED EQUIPMENT & COMPRESSOR RACKS SHALL BE PROVIDED BY GENERAL CONTRACTOR.

ALL WALL, FLOOR &/OR ROOF SLEEVES SHALL BE PROVIDED BY GENERAL CONTRACTOR.

KITCHEN EQUIPMENT CONTRACTOR SHALL UNDER NO CONDITIONS SET-IN-PLACE OR INSTALL ANY PIECE OF EQUIPMENT PRIOR TO TILE FLOORS BEING ACID WASHED & RINSED.

WHERE QUARRY TILE FLOORS ARE EXTENDED INTO WALK-IN FREEZER/COOLER ASSEMBLIES, GENERAL CONTRACTOR SHALL PROTECT ALL EXPOSED METAL SURFACES & REMOTE DOORS PRIOR TO ACID WASHING OF FLOORS & PROVIDE POWER VENTILATION TO REMOVE FUMES.

GENERAL CONTRACTOR SHALL PROVIDE WALL OPENINGS TO ACCOMMODATE ITEMS OF PASS-THRU & CONVEYOR EQUIPMENT AS DETAILED ON PLAN. REFER TO PLAN FOR ADDITIONAL INFORMATION.

BEVERAGE SYSTEM CONDUIT SHALL BE 6" MINIMUM DIAMETER W/24" MINIMUM RADIUS EASY-SWEEP BENDS @ ALL TURNS & FLOOR PENETRATIONS. CONDUITS SHALL BE RUN BELOW FLOOR SLAB WHERE EVER POSSIBLE & SHALL BE ROUTED TO PROVIDE THE SHORTEST RUNS POSSIBLE. RUNS SHOULD NOT EXCEED 75'0" W/O PULL BOX. ALL PULL BOXES SHALL BE STAINLESS STEEL WHERE EXPOSED & SHALL BE LOCATED IN ACCESSIBLE AREAS. FOR ABOVE SLAB INSTALLATIONS OR WHERE CONDUIT PASSES THROUGH RETURN AIR PLENUMS. PROVIDE 6" EMT CONDUIT(PVC WILL NOT BE PERMITTED). CONDUIT MUST BE PROVIDED BY GENERAL CONTRACTOR.

16GA. STAINLESS STEEL CORNER GUARDS SHALL BE FURNISHED & INSTALLED BY KITCHEN EQUIPMENT CONTRACTOR AS PER PLANS & DETAILS.

SPECIAL CONDITIONS SYMBOLS

SLEEVE	○
SLAB DEPRESSION	
BLOCKOUT	
RAISED CURB	
WALL BACKING	

PHASE 2 (AREA - C) VENTILATION SCHEDULE

ITEM	QTY.	SIZE	CONNECTION	C.F.M.	S.P.	REMARKS
V01	1	18" X 12"	SUPPLY	1549	0.20"	FOR HOOD #C4
V02	1	14" X 12"	SUPPLY	1123	0.20"	FOR HOOD #C4
V03	1	13" X 12"	EXHAUST	1936	0.43"	FOR HOOD #C4
V04	1	12" X 10"	EXHAUST	1404	0.27"	FOR HOOD #C4

VENTILATION NOTES

PLEASE DISREGARD NOTES THAT DO NOT APPLY TO THIS PROJECT

VENTILATION DUCTWORK, EXHAUST FANS, SUPPLY FANS, INTERLOCKS, MOTOR STARTERS, DISCONNECT SWITCHES, FAN CONTROL, SWITCHES, INTERCONNECTING WIRING, CONDUIT, & FINAL CONNECTIONS (TO & FROM) VENTILATORS &/OR DISHWASHER CONDENSATE HOODS SHALL BE BY H.V.A.C./MECHANICAL CONTRACTOR.

DISHWASHER CONDENSATE DUCT & EXHAUST VENTILATOR SUPPLY & EXHAUST, DUCT SIZES & ALL OTHER VENTILATION SPECIFICATIONS FROM THE DUCT COLLAR ON SHALL BE DETERMINED BY ARCHITECT/ENGINEER & ALL NECESSARY MATERIAL & LABOR PROVIDED BY H.V.A.C./MECHANICAL CONTRACTOR.

VENTILATION CFM, STATIC PRESSURE & DUCT SIZES INDICATED ON THESE PLANS ARE THE SPECIFIED EQUIPMENT MINIMUM REQUIREMENTS.

THE FOLLOWING MINIMUM GENERAL FOODSERVICE VENTILATION REQUIREMENTS ARE RECOMMENDED:

A. COOKING, PREPARATION, POTWASHING & DISHWASHING AREAS: REFER TO ASHRAE RECOMMENDATIONS FOR AIR CHANGES PER HOUR.

B. STORAGE AREAS: 2-3 AIR CHANGES PER HOUR, 70D FAHRENHEIT MAXIMUM AMBIENT TEMPERATURE.

C. OFFICES AREAS: 4 AIR CHANGES PER HOUR.

D. AIR-COOLED REFRIGERATION CONDENSING UNITS, 1000 CFM PER HORSEPOWER SUPPLY & EXHAUST, 90D FAHRENHEIT MAXIMUM AMBIENT TEMPERATURE. ALL AREAS MUST BE VENTILATED AS REQUIRED BY APPLICABLE GOVERNING CODES.

MAKE-UP AIR SYSTEM SHALL BE DESIGNED TO PROVIDE A 10% TO 20% NEGATIVE AIR PRESSURE IN KITCHEN AREAS TO CONTAIN SMOKE & ODORS.

ADEQUATE VENTILATION (24 HOURS) IS REQUIRED FOR SELF-CONTAINED REFRIGERATION UNITS IN ENCLOSED AREAS, SUCH AS, ICE MAKERS, WALK-IN COOLER ASSEMBLIES, & BEVERAGE SYSTEMS, TO PREVENT OVERHEATING & COMPRESSOR FAILURE.

VENTILATION SYMBOLS

EXHAUST DUCT	
SUPPLY DUCT	
STATIC PRESSURE, WATER GAUGE	SPWG
CUBIC FEET/MINUTE	CFM

Perkins&Will

1301 5th Ave
#2300, Seattle,
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t +1206381600
www.perkinswill.com

CONSULTANTS

FOOD SERVICE
INMAN FOOD SERVICES
3807 Charlotte Avenue,
Nashville, Tennessee 37209

CIVIL
AHBL
1200 6th Ave #1620,
Seattle, WA 98101

STRUCTURAL
PCS
1011 Western Avenue, Suite 810
Seattle WA 98104

CONTRACTOR
SELLEN
227 Westlake Ave,
Seattle, WA 98109

PLUMBING
MACDONALD MILLER
1004 Madison St,
Seattle, WA 98104

MECHANICAL
MACDONALD MILLER
1004 Madison St,
Seattle, WA 98104

ELECTRICAL
EBD SERVICES
14900 Interurban Ave S, #143
Seattle, WA 98168

PROJECT MANAGER
TURNER & TOWNSEND
920 Fifth Avenue,
Seattle, WA, 98104

MultiCare
Good Samaritan
Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

100% CD SET 6/30/2025

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

PHASE 2 (AREA - C) SPECIAL CONDITIONS PLAN AND VENTILATION SCHEDULE

SHEET NUMBER

FS01-C.4

6/24/2025 11:34:22 AM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-C-R25.rvt

HOOD INFORMATION TABLE

HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS						GREASE EXTRACTOR				HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	SUPPLY AIR REQUIREMENTS					PLENUM WEIGHT (LBS)
		EXHAUST CFM	TOTAL HOOD STATIC PRESSURE	T.A.B. PORT STATIC PRESSURE	EXHAUST COLLAR			QTY.	SIZE		TYPE			SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR			
					QTY.	LENGTH	WIDTH		L	H						QTY.	LENGTH	WIDTH	
C4L	KVE	1936	0.43"	0.31"	1	13"	12"	5	20"	13"	KSA	ALL 18 GA. 304 S.S.	715	1549	0.20"	1B1	18"	12"	168
								-	11"	13"									
C4R	KVE	1404	0.27"	0.16"	1	12"	10"	5	20"	13"	KSA	ALL 18 GA. 304 S.S.	715	1123	0.20"	1B1	14"	12"	168
								-	11"	13"									

TOTAL EXH. CFM = 3340 TOTAL SUPPLY CFM = 2672

MAKE UP AIR GUIDELINES

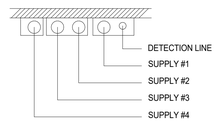
- VELOCITY MEASURED AT THE LOWER FRONT LIP OF THE HOOD SHALL NOT EXCEED 75 FPM.
- TRANSFER AIR FROM PARTS OF THE BUILDING OTHER THAN THE KITCHEN SHALL NOT EXCEED 50 FPM VELOCITY.
- NO SLOT, 2-WAY, 3-WAY OR 4-WAY CEILING DIFFUSER SHALL PROVIDE AIRFLOW DIRECTED AT HOOD. MUST INSTALL DIFFUSERS MINIMUM OF 48 " [1219 MM] AWAY FROM ALL OPEN SIDES OF HOODS*.

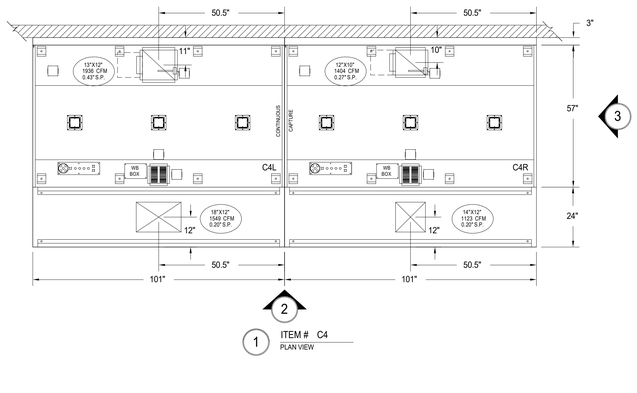
*EXCEPTION-HALTON KCDs MAY BE PLACED 24" [610 MM] AWAY FROM ALL OPEN SIDES OF HOODS.

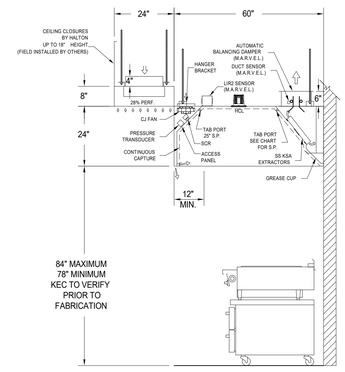
ANSUL R-102 SYSTEM

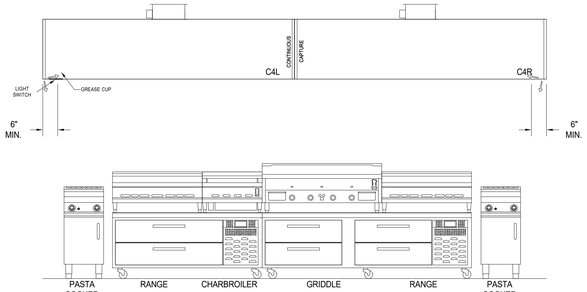
REMOTE MOUNTED:

(1) ELEC. REGULATED RELEASE (WITH ONE TANK)
(1) DOUBLE TANK ENCLOSURE (WITH TWO TANKS)
(1) REGULATED ACTUATOR (WITH ONE TANK)

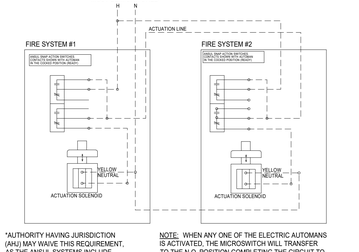








Wiring Diagram for Simultaneous Actuation of Two Electric Automans



*AUTHORITY HAVING JURISDICTION (AHJ) MAY WAIVE THIS REQUIREMENT, AS THE ANSUL SYSTEMS INCLUDE MECHANICAL DETECTION AND ACTUATION AS A BACKUP DETECTION SYSTEM.

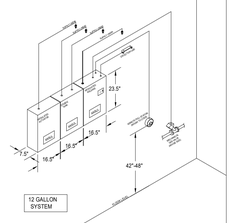
NOTE: WHEN ANY ONE OF THE ELECTRIC AUTOMANS IS ACTIVATED, THE MICROSWITCH WILL TRANSFER TO THE N.O. POSITION COMPLETING THE CIRCUIT TO THE SOLENOID IN THE OTHER ELECTRIC AUTOMAN. THIS WILL ACTIVATE THE AUTOMAN SOLENOID FIRING THE AUTOMAN.

PHASE 2 AREA C

KEF-1

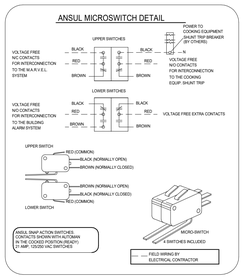
FULL FLOOD

ANSUL R-102 SYSTEM



1) ANSUL R-102 FIRE SYSTEM
2) FOUR TANK SYSTEM (12 GALLON)
3) 3/8" BLACK IRON PIPING (CONCEALED)
3/8" S.S. APPLIANCE DROPS (EXPOSED)
4) MECHANICAL GAS VALVE + (4)OVISE SIZE)

ANSUL MICROSWITCH DETAIL



GENERAL SPECIFICATIONS

1- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96, IMC SECTION 507 AND UL 710 STANDARD.

2- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #10314320#PRT-001

3- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.

4- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LADEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.

5- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.

6- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.

7- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

INSTALLATION REQUIREMENTS

KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS

1- PROVIDE DRAWINGS IN APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.

2- DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.

3- FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.

4- THE K.E.C MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.

5- IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED. THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

6- IF HALTON MODEL KVL BACKSHELF STYLE HOODS ARE PROVIDED. THE K.E.C. IS RESPONSIBLE FOR THE INSTALLATION OF THE CAPTURE-JET FAN.

ELECTRICAL CONTRACTOR'S REQUIREMENTS

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

ELECTRICAL EQUIPMENT REQUIREMENTS

FLUORESCENT LIGHT FIXTURE
40 WATT MAX BULB= .67 AMP EA.

RECESSED INCANDESCENT LIGHT FIXTURE
150 WATT MAX BULB= 1.25 AMP EA.

GLOBE INCANDESCENT LIGHT FIXTURE
100 WATT MAX BULB= .83 AMP EA.

HCL LIGHT FIXTURES= .12 AMP EA.

LED LIGHT FIXTURES= .30 AMP EA

CAPTURE JET FAN= .72 AMP EA

ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP

LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS

100W EQUIVALENT CFL OR LED BULBS ARE ACCEPTABLE FOR USE IN THE INCANDESCENT FIXTURE HOUSINGS

CEILING HEIGHT NOTE

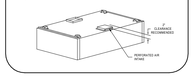
IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

FINISHED CEILING HEIGHT A.F.F.: _____

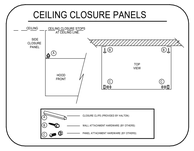
CAPTURE JET CLEARANCE DETAIL

Capture Jet ® Fan Cover Clearance

Patented Capture Jet ® technology perimeter air jets improve capture and containment of heat and grease emissions. It is very important to leave air space above and around the Capture Jet ® air intake cover on the top of the Halton hood. Please leave 2 inches of clearance on the top and sides of the perforated Capture Jet ® intake cover to allow unimpeded entrance of air into the Capture Jet ® fan.



CEILING CLOSURE PANELS



EXHAUST VOLUME DAMPER

MODEL: ABD (Automatic Balancing Damper)

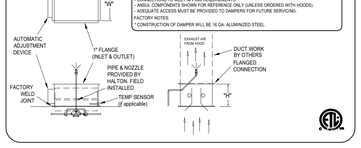
TAG	"L"(mm)	"W"(mm)	"H"(mm)	QTY	CONSTRUCTION	GREASE SENSOR	TEMP SENSOR	DETECTOR (HOOD/DAMPER)	ANSUL
C4L	13"	12"	6"	1	16 GA. ALUM	N	N	H	Y
C4R	12"	10"	6"	1	16 GA. ALUM	N	N	H	Y

ACTUATOR: BELIMO

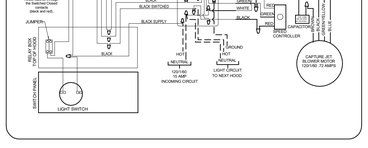
GENERAL NOTES

FIELD NOTES:
- DAMPER FIELD CONNECTION REQUIRED. SLEEVED CONNECTION WILL CAUSE DAMPER BLADES TO BIND.
- CONNECTIONS TO MEET NFPA96 REQUIREMENTS.
- ANSUL COMPONENTS SHOWN FOR REFERENCE ONLY (UNLESS ORDERED WITH HOODS).
- ADEQUATE ACCESS MUST BE PROVIDED TO DAMPERS FOR FUTURE SERVICING.

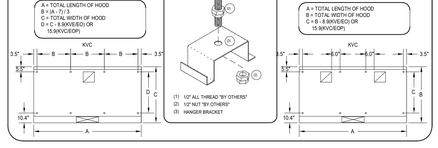
FACTORY NOTES:
- CONSTRUCTION OF DAMPER WILL BE 16 GA. ALUMANIZED STEEL.



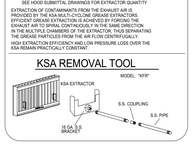
Typical Wiring of Capture-Jet Fan W/HALTON SUPPLIED SWITCH PANEL



HANGER BRACKET LAYOUT



KSA GREASE EXTRACTOR



EXTRACTION OF CONTAMINANTS FROM THE EXHAUST AIR IS ACCOMPLISHED BY PASSING THE AIR THROUGH AN EFFICIENT GREASE EXTRACTION IS ACHIEVED BY FORCING THE EXHAUST AIR TO SPIRAL CONTINUOUSLY IN THE SAME DIRECTION AS THE EXTRACTOR ROTATION. THIS ACTION, THUS SEPARATING THE GREASE PARTICLES FROM THE AIR STREAM RESULTS IN HIGH EXTRACTION EFFICIENCY AND LOW PRESSURE LOSS OVER THE KSA REMAIN PRACTICALLY CONSTANT.

KSA REMOVAL TOOL

PERFORMANCE CRITERIA

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

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

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

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

MANUFACTURER MUST PROVIDE A WRITTEN GUARANTEE OF PERFORMANCE, ENSURING THE SPECIFYING ENGINEER THAT THE SYSTEM WILL PERFORM TO THE ENGINEER'S SATISFACTION WHEN INSTALLED AND BALANCED ACCORDING TO DESIGN AIR FLOWS AND RESULTS OF ASTM STANDARD F1704 TEST. (AS DETERMINED BY TAB PORTS AND PRESSURE VS. AIR FLOW CURVES.) CONSULTANT RESERVES THE RIGHT TO REJECT ANY SYSTEM WHICH, WHEN INSTALLED, DOES NOT PROVIDE CAPTURE AND CONTAINMENT AT THE THRESHOLD FLOW RATE DETERMINED IN ASTM F1704. REJECTED SYSTEM MUST BE REPLACED WITH SPECIFIED SYSTEM, WITH ALL REPLACEMENT COSTS PAID BY MANUFACTURER OF REJECTED SYSTEM.

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

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

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

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:
HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0301
WEBSITE: www.halton.com
HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5900

REV.	REVISION DESCRIPTION	BY	DATE
1	NO CHANGE	RTC	02.07.25
2	NO CHANGE	RTC	02.10.25
3	REVISED APPLIANCES, CFMS	RB	03.06.25
4	REVISED HOOD LAYOUT	RTC	04.04.25
5	ABSORBED PHASE D INTO PHASE C, CONNECTED ACCORDINGLY	RTC	04.30.25
6	REVISED ROOM LABEL	RTC	05.14.25
7	REVISED HOOD LABEL & ADDED ANSUL TANK	RTC	

PROJECT: 24127 GOOD SAMARITAN MULTICARE - PHASE C
LOCATION:
DRAWN BY: RTC DATE: 12.13.24
SCALE: NOT TO SCALE
CONSULTANT: INMAN

DRAWING TITLE: HOOD DETAILS
DRAWING No.: U24-977
REV. NO.: 7 SHEET NO.: 4 of 6

Halton

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PLUMBING
MACDONALD MILLER
1004 Madison St.
Seattle, WA 98104

MECHANICAL
MACDONALD MILLER
1004 Madison St,
Seattle, WA 98104

ELECTRICAL
EBD SERVICES
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Seattle, WA 98168

PROJECT MANAGER
TURNER & TOWNSEND
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Seattle, WA, 98104

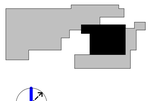
MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

100% CD SET 6/30/2025

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE
Job Number		24127

TITLE

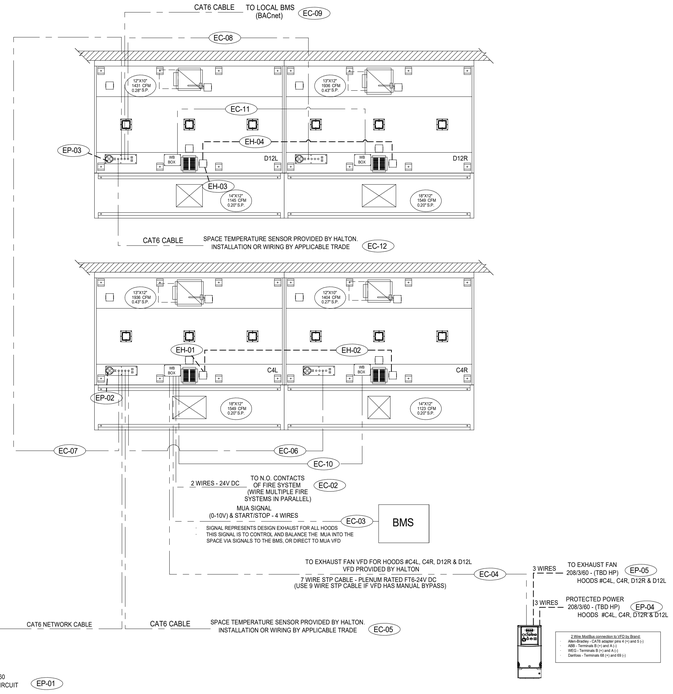
PHASE 2 (AREA - C)
HOOD DETAILS 4 OF 6
HALTON DOCUMENTS

SHEET NUMBER

FS01-C.5

6/24/2025 11:34:23 AM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-C-R25.rvt

PHASE 2



M.A.R.V.E.L. TOUCH SCREEN

CONTROL PANEL 1

NOTE: 12" CLEARANCE REQUIRED FOR CELLULAR MODEM KVE

SHOP NOTE: C/W CELLULAR MONITORING

OVERRIDE IN HMI

KEF-1

ELECTRICAL CONNECTION SCHEDULE

CONNECTION #	CONNECTION DESCRIPTION	TYPE	FROM	TO
	HOOD CONNECTIONS (EH)			
EH-01	HOOD LIGHT & CAPTURE JET POWER	3-WIRE, 120V, 15A	BUILDING SOURCE	HOOD C4L
EH-02	HOOD TO HOOD - FIELD CONNECTION	3-WIRE, 120V	HOOD C4L	HOOD C4R
EH-03	HOOD LIGHT & CAPTURE JET POWER	3-WIRE, 120V, 15A	BUILDING SOURCE	HOOD C4L
EH-04	HOOD TO HOOD - FIELD CONNECTION	3-WIRE, 120V	HOOD D12R	HOOD D12L
	CONTROLS POWER CONNECTIONS (EP)			
EP-01	CONTROL PANEL POWER	3-WIRE, 120V, 15A	BUILDING SOURCE	TOUCH SCREEN
EP-02	HOOD CONTROLLER POWER	3-WIRE, 120V, 15A	BUILDING SOURCE	HOOD C4L
EP-03	HOOD CONTROLLER POWER	3-WIRE, 120V, 15A	BUILDING SOURCE	HOOD D12L
EP-04	VFD POWER (HIGH VOLTAGE)	3-WIRE, TBD/3/60, TBD HP	BUILDING SOURCE	EXH FAN VFD
EP-05	EXH FAN POWER (HIGH VOLTAGE)	3-WIRE, TBD/3/60, TBD HP	EXH FAN VFD	EXH FAN MOTOR
	CONTROLS CONNECTIONS (EC)			
EC-01	NETWORK CABLE - PANEL TO HOODS	CAT6	TOUCH SCREEN	HOOD C4L
EC-02	FIRE MODE SIGNAL	2-WIRE, 24V	HOOD C4L	FIRE SYSTEM
EC-03	MUA SIGNAL - START/STOP, DEMAND LEVEL (0-10V)	4-WIRE, 24V	HOOD C4L	BMS
EC-04	VFD CONTROL WIRING	7-WIRE, 24V, PLENUM RATED	HOOD C4L	EXH FAN VFD
EC-05	SPACE TEMP SENSOR - FIELD CONNECTION	CAT6	HOOD C4L	TEMP SENSOR
EC-06	NETWORK CABLE - HOOD PAIR - PRIMARY TO SECONDARY	CAT6	HOOD C4L	HOOD C4R
EC-07	NETWORK CABLE - HOOD CONTROLLER TO HOOD CONTROLLER	CAT6	HOOD C4L	HOOD D12L
EC-08	NETWORK CABLE - HOOD PAIR - PRIMARY TO SECONDARY	CAT6	HOOD D12L	HOOD D12R
EC-09	BMS(BACNET) CONNECTION	CAT6	HOOD D12L	BMS
EC-10	24V POWER - 2 WIRES	2-WIRE, 24V	HOOD C4L	HOOD C4R
EC-11	24V POWER - 2 WIRES	2-WIRE, 24V	HOOD D12L	HOOD D12R
EC-12	SPACE TEMP SENSOR - FIELD CONNECTION	CAT6	HOOD D12L	TEMP SENSOR

NOTE:
HALTON SUPPLIED VARIABLE FREQUENCY DRIVES (VFD'S):
MANUFACTURER: WEG
VFD'S WILL BE PROGRAMMED BY HALTON.

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

RESPONSIBILITY TO BE SELECTED BY GENERAL CONTRACTOR

DEFINITIONS FOR REFERENCE:

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

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

VFD = VARIABLE FREQUENCY DRIVES

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

1. APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE M.A.R.V.E.L. CONTROL PANEL. LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN SAME SPACE AS THE KITCHEN HOODS BEING SERVED BY PANEL. (M.A.R.V.E.L. I HOOD SYSTEMS WILL NOT HAVE SUCH PANEL)
2. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT M.A.R.V.E.L. CONTROL PANEL
3. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL RJ45 CAT6 CABLE CONNECTION AT M.A.R.V.E.L. CONTROL PANEL FOR M.A.R.V.E.L. II SYSTEMS OR AT KITCHEN HOOD FOR M.A.R.V.E.L. I SYSTEMS FOR I.P. ADDRESS.
4. APPLICABLE CONTRACTOR TO INSTALL SPACE TEMP SENSOR (SUPPLIED BY HALTON) IN SAME SPACE AS KITCHEN HOOD SYSTEM AND 48"-54" A.F.F. NEAREST MUA T-STAT.
5. APPLICABLE CONTRACTOR SHALL SUPPLY AND RUN RJ45 CAT6 CABLE CONNECTION FROM SPACE TEMP SENSOR TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. II) OR TO KITCHEN HOOD (M.A.R.V.E.L. I)
6. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 2 WIRE 24V DC WIRING FROM ANSUL FIRE SYSTEM EITHER TO M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. II) OR TO KITCHEN HOOD (M.A.R.V.E.L. I).
7. APPLICABLE CONTRACTOR TO SUPPLY AND RUN RJ45 CAT6 CABLE FROM HOOD TO HOOD AND TO PANEL AS SHOWN IN HALTON M.A.R.V.E.L. DIAGRAM
8. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 4 WIRE MUA SIGNAL (0-10V & START/STOP) FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. II) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO BMS OR DDC.
9. APPLICABLE CONTRACTOR TO SUPPLY AND RUN 7 WIRE STP PLENUM RATED CABLE (9 WIRE STP CABLE IF VFD IS PROVIDED WITH BYPASS) FROM M.A.R.V.E.L. CONTROL PANEL (M.A.R.V.E.L. II) OR FROM KITCHEN HOOD (M.A.R.V.E.L. I) TO EXHAUST FAN VFD(S) (VFD'S AND CABINET SUPPLIED BY HALTON UNLESS OTHERWISE NOTED)
10. APPLICABLE CONTRACTOR TO SUPPLY AND RUN RJ45 CAT6 CABLE FROM CONTROL PANEL TO VFD, FOR MODBUS COMMUNICATION.
11. APPLICABLE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE VFD(S). LOCATION TO BE DETERMINED BY GC AND SHALL BE WITHIN 150 FEET MAX DISTANCE FROM EXHAUST FAN(S).
12. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FEED FROM CIRCUIT BREAKER(S) TO VFD(S). APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL THREE PHASE OR SINGLE PHASE POWER FROM VFD(S) TO EXHAUST / MUA (IF APPLICABLE) MOTORS. ALL TO BE RAN IN SEPARATE CONDUIT.
13. APPLICABLE CONTRACTOR SHALL INSTALL GREASE SENSOR(S), IF PROVIDED, IN MAIN EXHAUST TRUNK, AND WIRE THE SENSOR BACK TO THE DESIGNATED LOCATION.
14. APPLICABLE CONTRACTOR TO SUPPLY AND INSTALL 115V (15AMP) DEDICATED CIRCUIT AT EACH KITCHEN HOOD. (IF HOODS ARE UV, A SECOND 115V DEDICATED CIRCUIT IS REQUIRED.)
15. INSTALLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING ADEQUATE ACCESS TO ALL COMPONENTS LOCATED ABOVE HOOD.
16. HALTON REPRESENTATIVE TO PERFORM FINAL FIELD COMMISSIONING ONCE ALL RESPONSIBILITIES ARE COMPLETED ABOVE.

COMMUNICATION WIRING

NOTE:

MAXIMUM LENGTH OF CABLES BETWEEN ANY THREE CONTROLLERS (CONTROL PANELS, HOODS, ETC) IN SERIES IS 328 FEET (100 METERS). THIS ALLOWS CONTINUED COMMUNICATION THROUGH A FAILED CONTROLLER. IF GREATER CABLE LENGTH IS NEEDED BETWEEN CONTROLLERS, AN INLINE ETHERNET BOOSTER MUST BE SPECIFIED AND USED.

NOTES:

ALL FIELD WIRING AND CONNECTION POINTS ARE SUBJECT TO CHANGE DUE TO ELECTRICAL COMPONENT(S) UPDATE OR OBSOLESCENCE. HALTON WILL NOT BE LIABLE FOR ANY CHANGE ORDERS BASED ON DRAWINGS CREATED ONE OR MORE YEARS PRIOR TO PRODUCTION. WHEN RELEASED AN UPDATED SET OF ELECTRICAL DIAGRAMS(S) WILL BE SUPPLIED.

CONNECTIVITY NOTES:

IF COMMUNICATION WITH BUILDING MANAGEMENT SYSTEM (BMS) IS VIA BACNET, THE COMMUNICATION PROTOCOL DEFAULT IS BACNET IP.

NOTES:

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

NOTES:

ALL FAN MOTORS MUST BE COMPATIBLE WITH VARIABLE FREQUENCY DRIVES (VFD'S). ALL MOTORS MUST BE CONNECTED TO THREE PHASE POWER. ELECTRONICALLY COMMUTATED MOTORS (ECM) ARE ALSO ACCEPTABLE IF SINGLE PHASE POWER IS TO BE USED. (24V POWER SUPPLY TO THE ECM IS BY OTHERS)

NOTES:

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

HOOD GROUPINGS

PRIMARY	SECONDARY
C4L	C4R
D12L	D12R

M.A.R.V.E.L. BASIC SEQUENCE OF OPERATIONS

- ☑ M.A.R.V.E.L.
- START UP & SHUTDOWN
  - OFF
  - IDLE
  - COOKING OR ACTIVE MODE
- MAKE UP AIR
  - START/STOP
  - 0-10V OUTPUT TOTAL MUA DEMAND
- FIRE MODE SEQUENCE
- STANDARD OVERRIDE FEATURE - HMI
  - ☑ ABDS - INDIVIDUAL HOOD CONTROL
  - ☐ MBDS - GROUP HOOD CONTROL
  - ☐ NO BALANCING DAMPERS
- ☑ HALTON CONNECT (EDGE)
- ☑ ROOM TEMP SENSOR

FAN CONFIGURATION DATA FOR M.A.R.V.E.L.

Exhaust Data:

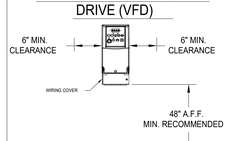
EF Item #: _____ Voltage/Phase/Hertz: ____ / __ / ____
EF HP: _____
Hood Item #'s connected to this fan: _____
EF Item #: _____ Voltage/Phase/Hertz: ____ / __ / ____
EF HP: _____
Hood Item #'s connected to this fan: _____
EF Item #: _____ Voltage/Phase/Hertz: ____ / __ / ____
EF HP: _____
Hood Item #'s connected to this fan: _____
EF Item #: _____ Voltage/Phase/Hertz: ____ / __ / ____
EF HP: _____
Hood Item #'s connected to this fan: _____

Make Up Air Data:

Quantity of MUA "Zones": _____
Hood Item #'s located in Zone 1: _____
Hood Item #'s located in Zone 2: _____

NOTE: Above information must be completed in full prior to project being released for production. If more than four exhaust fans or two MUA zones are being used, please provide this data as well.

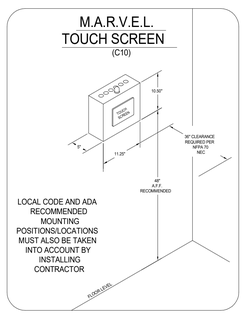
VARIABLE FREQUENCY DRIVE (VFD)



- VFD PHYSICAL DIMENSIONS TO BE DETERMINED BY MOTOR HORSEPOWER AND VOLTAGE.
- VFD TO BE MOUNTED IN DESIGNATED LOCATION.
- VFD MUST BE LOCATED WITHIN 150' OF FAN MOTOR.
- INSTALL SEPERATE CONDUITS FOR INCOMING & OUTGOING WIRING FROM EACH VFD.
- VFD'S ARE SUPPLIED & PROGRAMMED BY HALTON. THEY ARE TO BE INSTALLED & WIRED BY APPLICABLE TRADE OTHER THAN HALTON.
- VFD CABINETS ARE NOT SUPPLIED BY HALTON.
- IF VFD CABINETS ARE SUPPLIED IN THE FIELD, ENSURE THAT CABINET IS PROPERLY VENTILATED.

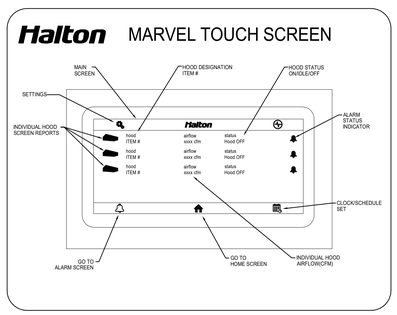
M.A.R.V.E.L. TOUCH SCREEN

(C10)



LOCAL CODE AND ADA RECOMMENDED MOUNTING POSITIONS/LOCATIONS MUST ALSO BE TAKEN INTO ACCOUNT BY INSTALLING CONTRACTOR

Halton MARVEL TOUCH SCREEN



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

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

M.A.R.V.E.L. CONTROL PANEL= 10 AMPS EA.

M.A.R.V.E.L. PLC AT EACH HOOD SECTION= 4 AMPS EA. (MAXIMUM 3 M.A.R.V.E.L. HOOD PLC'S PER 15A CIRCUIT)

ALL CIRCUITS ARE NOT TO EXCEED 15 AMP

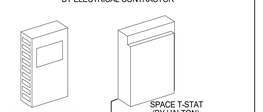
NOTES:

- - - - - - - FIELD WIRING (BY E.C.) - 120V - 12AWG MIN.-10AWG MAX.
— — — — FIELD WIRING (BY E.C.) - 24V - 22AWG MIN.-16AWG MAX.
—— - —— FIELD WIRING (BY E.C.) - 24V - CAT6

(FIG 1-1)

SPACE TEMPERATURE SENSOR

CAT6 COMMUNICATION CABLE TO M.A.R.V.E.L. CONTROL PANEL BY ELECTRICAL CONTRACTOR



TEMPERATURE SENSOR TO BE MOUNTED AWAY FROM VARYING SOURCES OF HEAT. USUALLY IN CLOSE PROXIMITY TO THE ROOM THERMOSTAT. SENSOR TO BE LOCATED IN SAME "ZONE" AS HOODS THEY SERVE, BY NO CLOSER THAN 10'-12' FROM THE EXHAUST HOOD OR ANY OTHER UNHOODED APPLIANCES.

M.A.R.V.E.L. CONTROL PANEL LOCATED IN (AREA - C) WILL CONTROL THE TWO HOODS IN PHASE 2. - ONE IN (AREA - C) AND ONE IN (AREA - D)

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

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

NOTE TO APPROVER
ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES OCCUR, A RECALCULATION OF EXHAUST AIRFLOW MAY BE REQUIRED. ANY OF THESE CHANGES OCCUR, A RECALCULATION OF EXHAUST AIRFLOW MAY BE REQUIRED

☐ REVISE AND RESUBMIT

APPROVED FOR FABRICATION
☐ WITH NO CHANGES
☐ WITH CHANGES AS NOTED

APPROVED BY _____ DATE _____

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
(905)624-0501

WEBSITE: www.halton.com

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5900

REV.	REVISION DESCRIPTION	BY	DATE
1	REVISED HOOD AND CONNECTIONS	CT	02.07.25
2	REVISED HOODS	RTC	02.10.25
3	NO CHANGE	KB	03.05.25
4	REVISED COLLAR BUBBLES	RTC	04.04.25
5	REVISED ROOM LABEL	RTC	04.30.25
6	NO CHANGE	RTC	04.30.25
7	REVISED HOOD LABELS	RTC	05.14.25

PROJECT: 24127 GOOD SAMARITAN MULTICARE - PHASE C
LOCATION:
DRAWN BY: RTC
DATE: 12.13.24
SCALE: NOT TO SCALE
CONSULTANT: INMAN

DRAWING TITLE: DEMAND CONTROL DETAILS

DRAWING No.: U24-977

REV. NO.: 7
SHEET NO.: 6 of 6

Halton

6/24/2025 11:34:24 AM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-C-R25.rvt

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14900 Interurban Ave S, #143
Seattle, WA 98168

PROJECT MANAGER
TURNER & TOWNSEND
920 Fifth Avenue,
Seattle, WA, 98104

100% CD SET 6/30/2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

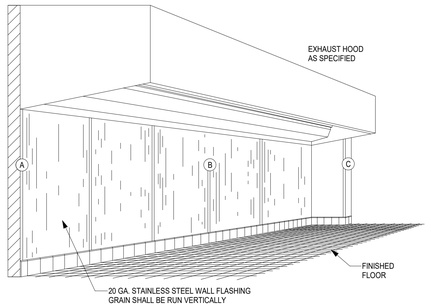
KEY PLAN

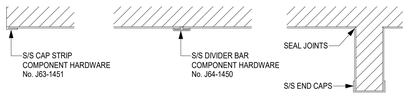
ISSUE CHART

MARK	ISSUE	DATE
Job Number		24127

TITLE
PHASE 2 (AREA - C)
DEMAND CONTROL
DETAILS 6 OF 6 HALTON
DOCUMENTS

SHEET NUMBER
FS01-C.6

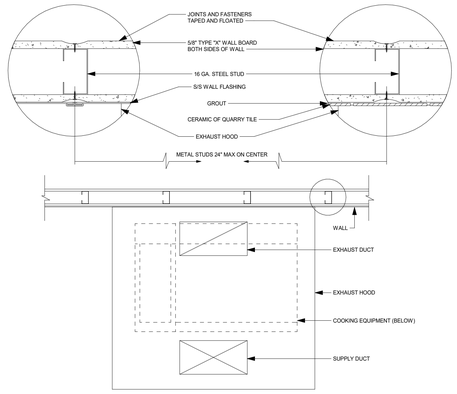




SECTION "A" SECTION "B" SECTION "C"

NOTE: SECURE FLASHING TO WALL WITH HEAT RESISTANT MASTIC

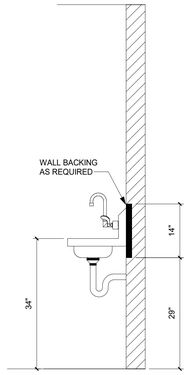
S/S WALL FLASHING DETAIL



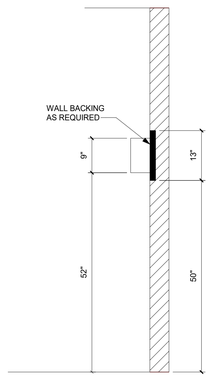
NOTE:
THE FOLLOWING CONDITIONS MUST BE MET IN ORDER TO QUALIFY THIS TYPE OF WALL CONSTRUCTION AS NON-COMBUSTABLE:

1. THE DRY WALL IS TYPE "X" FIRE RATED 5/8" THICK ON BOTH SIDES OF THE WALL.
2. THE TILE IS EITHER CERAMIC OR QUARRY WITH APPROPRIATE GROUT
3. THE STUDS ARE METAL 16 GA. MINIMUM AT 24" CENTERS
4. THE JOINTS AND FASTENERS OF THE GYPSUM BOARD ARE TAPED AND SPACKLED.
5. THE SURFACE OF THE GYPSUM BOARD IS SEALED BY THE TILE AND GROUT. (NO FLAMABLE ADHESIVES MAY BE USED TO BOND THE TILE TO THE WALL.)

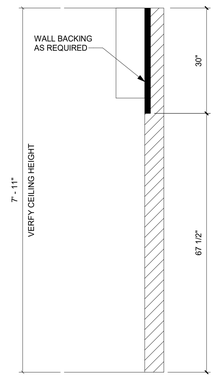
NON-COMBUSTABLE WALL



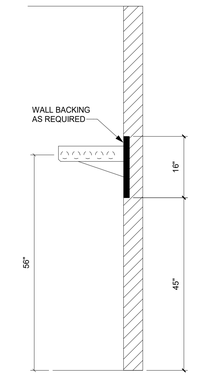
HAND SINK WALL BACKING DETAIL



M.A.R.V.E.L. CONTROL PANEL
WALL BACKING DETAIL



FIRE SUPPRESSION SYSTEM
WALL BACKING DETAIL



TUBULAR WALL SHELF - WALL
BACKING DETAIL - ITEM #C22

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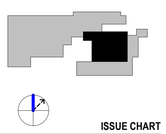
MULTICARE

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

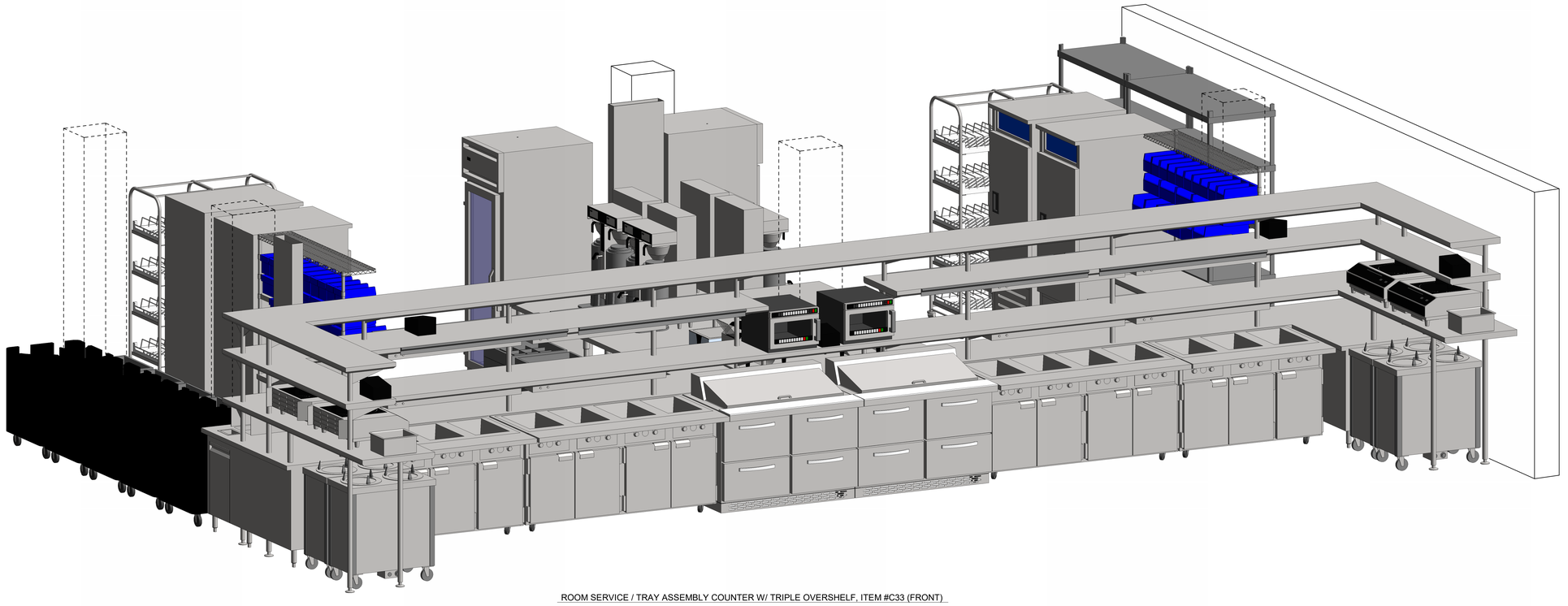
TITLE

PHASE 2 (AREA - C)
DETAILS AND WALL
BACKING DETAILS

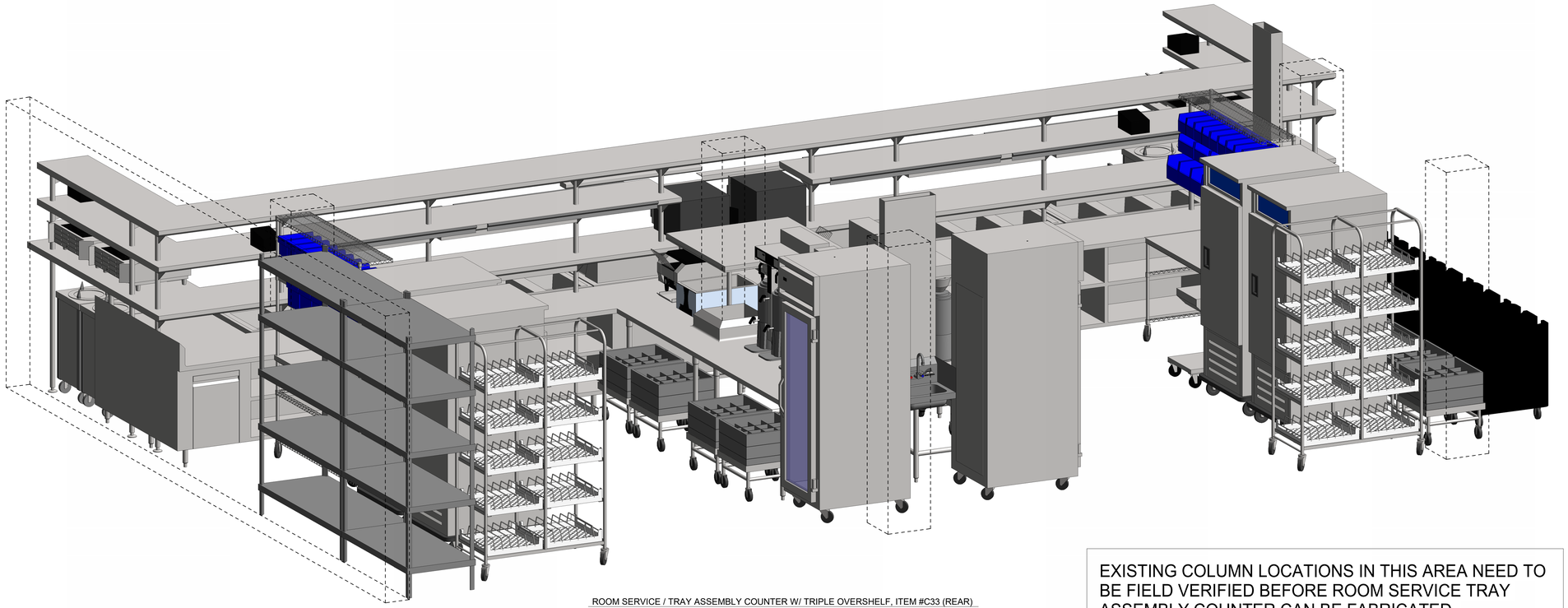
SHEET NUMBER

FS01-C.7

6/24/2025 11:34:25 AM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-C-R25.rvt



ROOM SERVICE / TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF, ITEM #C33 (FRONT)



ROOM SERVICE / TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF, ITEM #C33 (REAR)

EXISTING COLUMN LOCATIONS IN THIS AREA NEED TO BE FIELD VERIFIED BEFORE ROOM SERVICE TRAY ASSEMBLY COUNTER CAN BE FABRICATED.

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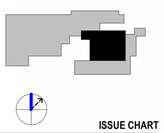
MULTICARE

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

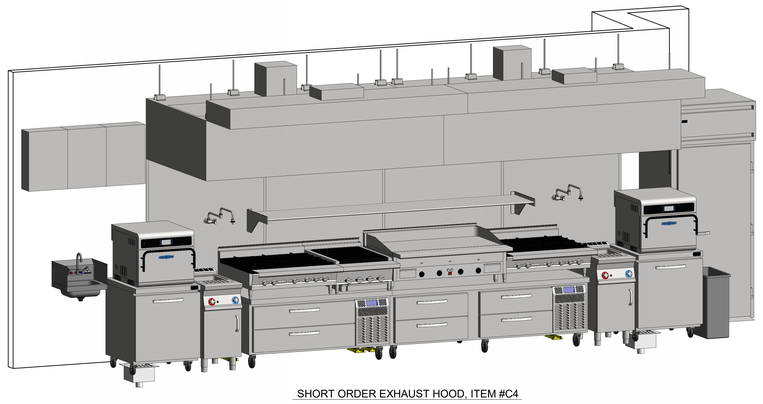
TITLE

PHASE 2 (AREA - C)
ELEVATON AND
ISOMETRIC VIEWS

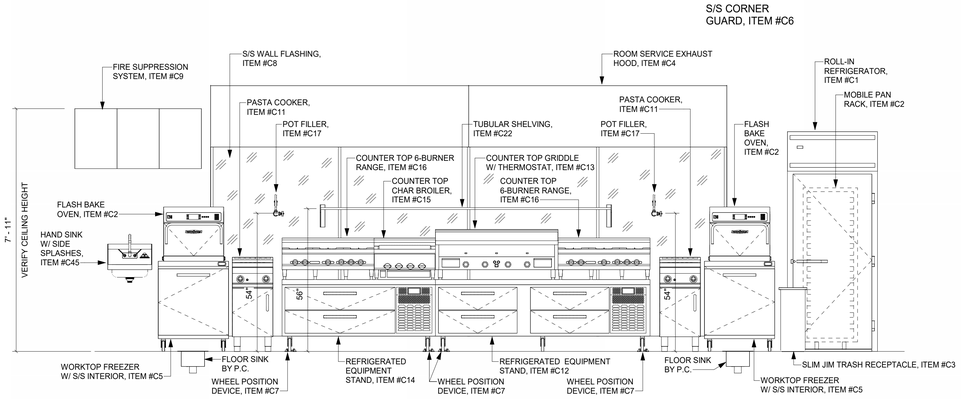
SHEET NUMBER

FS01-C.8

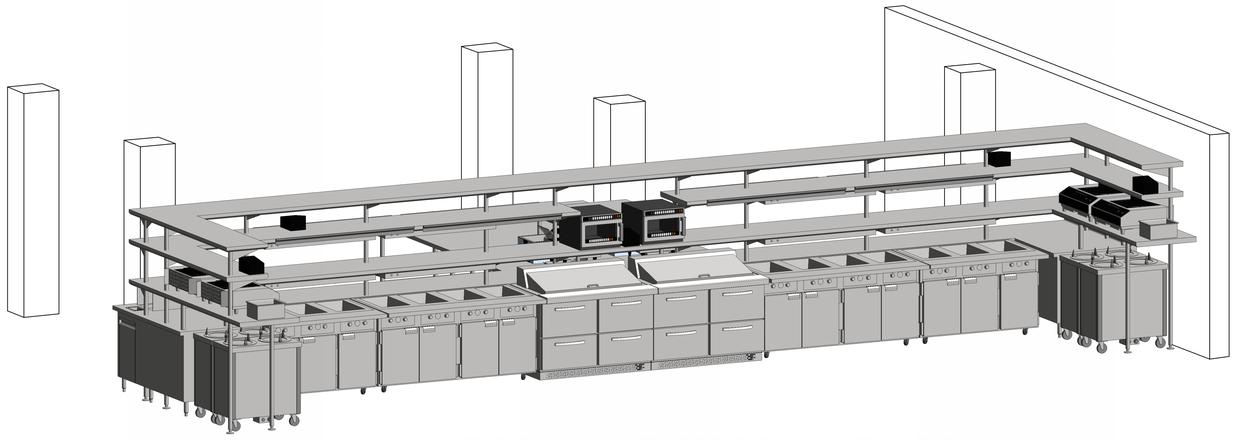
6/24/2025 11:36:58 AM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-C-R25.rvt



SHORT ORDER EXHAUST HOOD, ITEM #C4



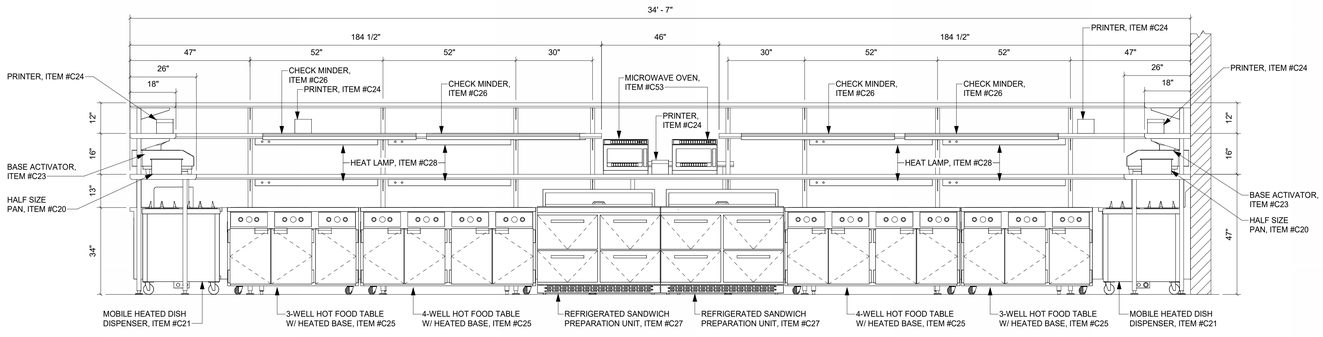
A ROOM SERVICE EXHAUST HOOD, ITEM #C4
1/2" = 1'-0"



ROOM SERVICE / TRAY ASSEMBLY COUNTER W/ TRIPLE OERSHELF / HAND SINK, ITEM # C33 (FRONT)

EXISTING COLUMN LOCATIONS IN THIS AREA NEED TO BE FIELD VERIFIED BEFORE ROOM SERVICE TRAY ASSEMBLY COUNTER CAN BE FABRICATED.

DIMENSIONS INDICATED ARE INTENDED FOR REFERENCE. FABRICATOR TO DEVELOP SHOP DRAWINGS AND DETERMINE FINAL DIMENSIONS FOR CONSTRUCTION.



B ROOM SERVICE / TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF / HAND SINK, ITEM #C33
1/2" = 1'-0"

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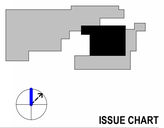
MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

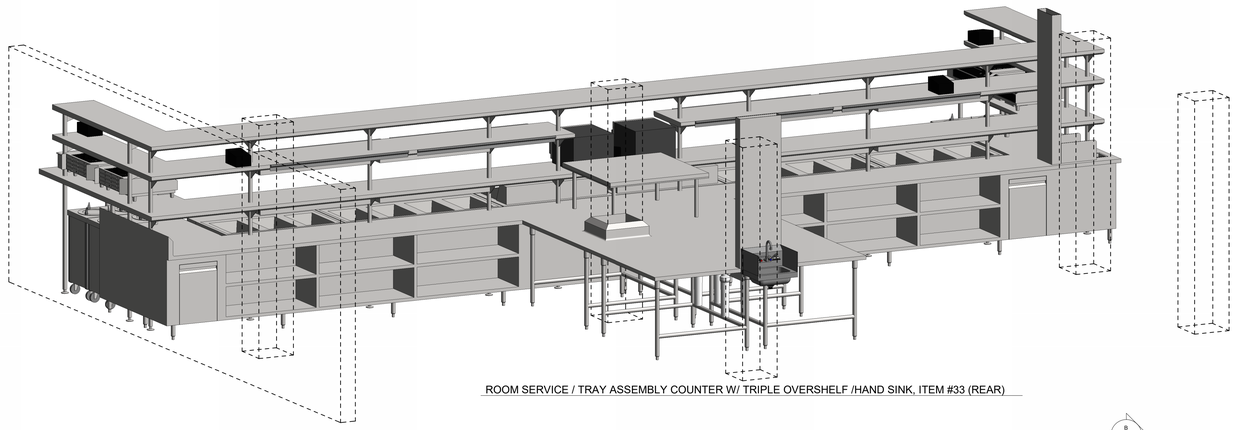
TITLE

PHASE 2 (AREA - C)
ELEVATION AND
ISOMETRIC VIEWS

SHEET NUMBER

FS01-C.9

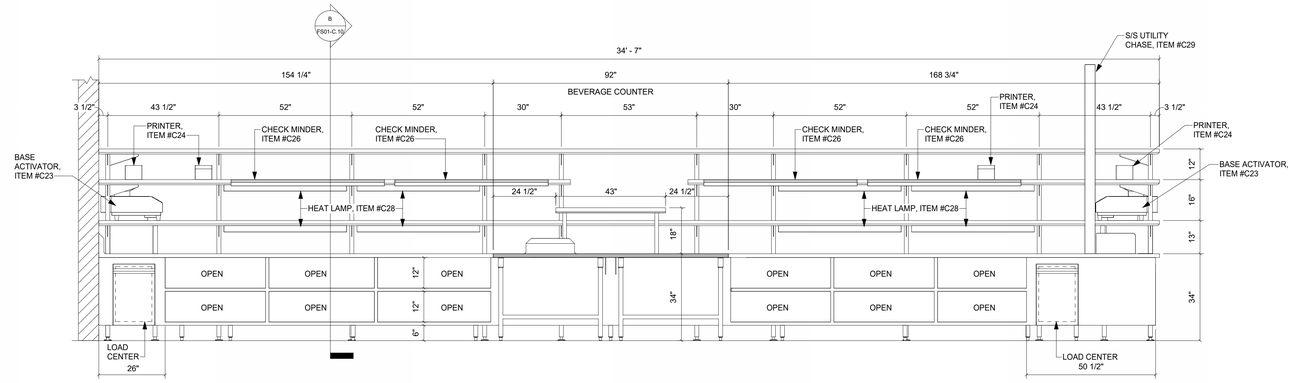
6/24/2025 11:37:42 AM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-C-R25.rvt



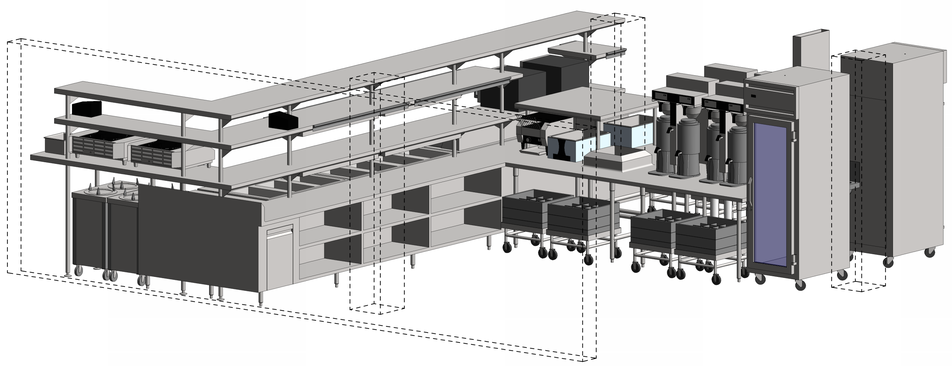
ROOM SERVICE / TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF /HAND SINK, ITEM #33 (REAR)

DIMENSIONS INDICATED ARE INTENDED FOR REFERENCE. FABRICATOR TO DEVELOP SHOP DRAWINGS AND DETERMINE FINAL DIMENSIONS FOR CONSTRUCTION.

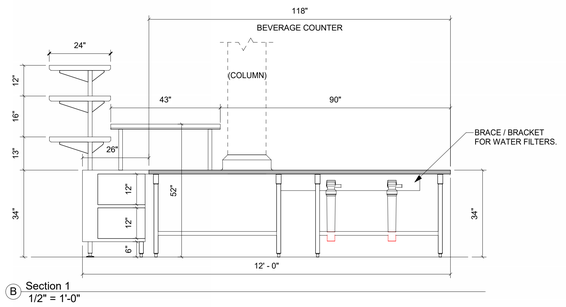
EXISTING COLUMN LOCATIONS IN THIS AREA NEED TO BE FIELD VERIFIED BEFORE ROOM SERVICE TRAY ASSEMBLY COUNTER CAN BE FABRICATED.



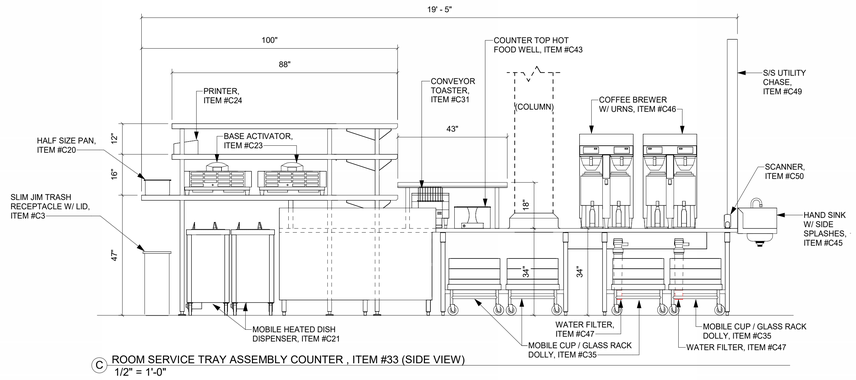
A ROOM SERVICE / TRAY SEEMBLY COUNTER W/ TRIPLE OVERSHELF / HAND SINK, ITEM #33 (REAR)
1/2" = 1'-0"



ROOM TRAY ASSEMBLY COUNTER, ITEM #33 (SIDE VIEW))



B Section 1
1/2" = 1'-0"



C ROOM SERVICE TRAY ASSEMBLY COUNTER , ITEM #33 (SIDE VIEW)
1/2" = 1'-0"

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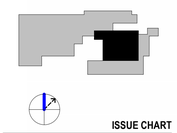


ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

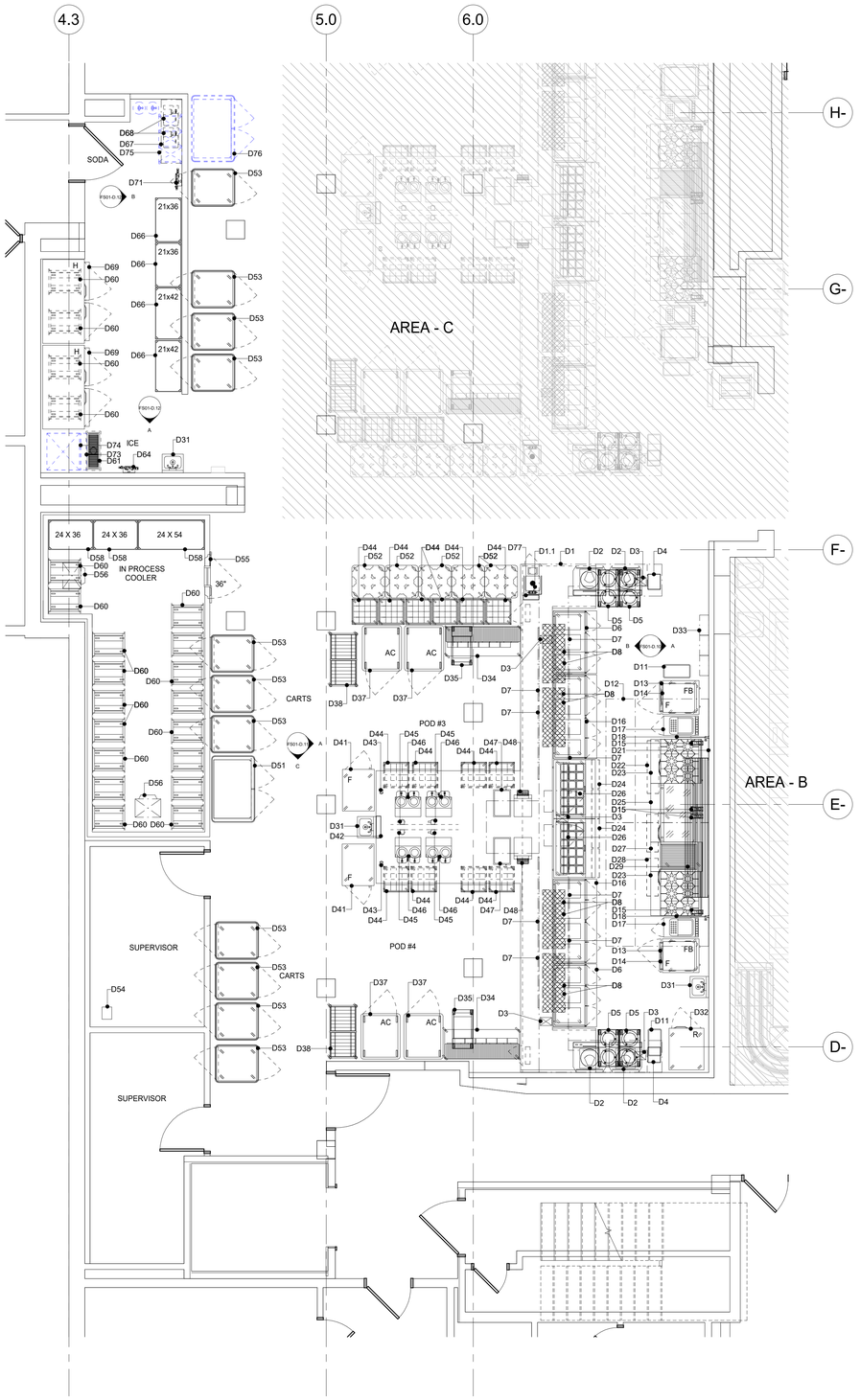
TITLE

PHASE 2 (AREA - C)
ELEVATION AND
ISOMETRIC VIEWS

SHEET NUMBER

FS01-C.10

6/24/2025 11:38:23 AM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-C-R25.rvt



1 PHASE 2 (AREA - D) EQUIPMENT PLAN
1/4" = 1'-0"

PHASE 2 (AREA - D) SHEET INDEX

NUMBER	NAME
FS01-D.1	PHASE 2 (AREA - D) EQUIPMENT PLAN AND SCHEDULE
FS01-D.2	PHASE 2 (AREA - D) PLUMBING PLAN AND SCHEDULE
FS01-D.3	PHASE 2 (AREA - D) ELECTRICAL PLAN AND SCHEDULE
FS01-D.4	PHASE 2 (AREA - D) SLAB BLOCK OUT - SLAB CONDITIONS PLAN
FS01-D.5	PHASE 2 (AREA - D) SPECIAL CONDITIONS PLAN AND VENTILATION SCHEDULE
FS01-D.6	PHASE 2 (AREA - D) REFRIGERATION PLAN AND SCHEDULE
FS01-D.7	PHASE (AREA - D) HOOD DETAILS 5 OF 6 HALTON DOCUMENTS
FS01-D.8	PHASE 2 (AREA - D) DETAILS AND WALL BACKING DETAILS
FS01-D.9	PHASE 2 (AREA - D) ELEVATION AND ISOMETRIC VIEWS
FS01-D.10	PHASE 2 (AREA - D) ELEVATION AND ISOMETRIC VIEWS
FS01-D.11	PHASE 2 (AREA - D) ELEVATION AND ISOMETRIC VIEWS
FS01-D.12	PHASE 2 (AREA - D) ELEVATION AND ISOMETRIC VIEWS
FS01-D.13	PHASE 2 (AREA - D) IMPERIAL BROWN COOLER DOCUMENT

PHASE 2 (AREA - D) SCHEDULE OF EQUIPMENT

ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL NUMBER	REMARKS
D1	1	ROOM SERVICE / TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF / HAND SINK	FABRICATOR	CUSTOM	W/ (2) LOAD CENTERS
D1.1	1	DECK WORKBOARD MOUNTED FAUCET	T&S BRASS	B-1110-CR	W/ B-0426
D2	4	BASE ACTIVATOR	ALADDIN	ADV700	(2) TO BE USED IN TEMP. POD AS ITEM #TP15
D3	5	PRINTER (	-	-	BY OWNER (4) TO BE USED IN TEMP. POD AS ITEM #TP6
D4	2	HALF SIZE PAN	VOLLRATH	SUPER PAN V 30262	-
D5	4	MOBILE HEATED DISH DISPENSER	CADDY	CM-S-302-H	(2) TO BE USED IN TEMP. POD AS ITEM #TP16
D6	2	3-WELL HOT FOOD TABLE W/ HEATED BASE	F.W.E.	HLC-3W6-7H-21-HWR	W/ 3-1/2" CASTERS / 8" PLATE SHELF (1) TO BE USED IN TEMP. POD AS ITEM #TP11
D7	8	CHECK MINDER	ADVANCE TABCO	CM-60	-
D8	8	HEAT LAMP W/ LIGHTS / INFINITE CONTROLS	HATCO	GRAL-48D	(2) TO BE USED IN TEMP. POD AS ITEM #TP12
D9	-	SPARE NUMBER	-	-	-
D10	-	SPARE NUMBER	-	-	-
D11	2	SLIM JIM TRASH RECEPTACLE / LID	-	-	BY OWNER (1) TO BE USED IN TEMP. POD AS ITEM #TP28
D12	1	ROOM SERVICE EXHAUST HOOD	HALTON	KVE	-
D13	2	WORKTOP FREEZER W/ S/S INTERIOR	CONTINENTAL	SWF27N	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING (2) TO BE USED IN TEMP. POD AS ITEM #TP3
D14	2	FLASH BAKE OVEN	TURBOCHEF	i3	(2) TO BE USED IN TEMP. POD AS ITEM #TP4
D15	(2) SETS	WHEEL POSITION DEVICE	T&S BRASS	POSI-SET	-
D16	2	4-WELL HOT DOOD TABLE W/ HEATED BASE	F.W.E.	HLC-4W6-7H-28-HWR	W/ 3-1/2" CASTERS / 8" PLATE SHELF (1) TO BE USED IN TEMP. POD AS ITEM #TP13
D17	2	PASTA COOKER	ARCOBALENO	APCE28	(2) TO BE USED IN TEMP. POD AS ITEM #TP5
D18	2	POT FILLER	T&S BRASS	B-0594-CR	-
D19	-	SPARE NUMBER	-	-	-
D20	-	SPARE NUMBER	-	-	-
D21	LOT	S/S WALL FLASHING	FABRICATOR	CUSTOM	-
D22	1	REFRIGERATED EQUIPMENT STAND	CONTINENTAL	D60GN	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING
D23	2	COUNTER TOP 6-BURNER RANGE	MONTAGUE	C36-5	W/ 8" PLATE SHELF
D24	2	REFRIGERATED SANDWICH PREPARATION UNIT	CONTINENTAL	D48N18M-FB-D	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING (2) TO BE USED IN TEMP. POD AS ITEM #TP#2
D25	1	COUNTER TOP GRIDDLE W/ THERMOSTAT	MONTAGUE	DG2448-SAT	W/ 8" PLATE SHELF
D26	2	MICROWAVE OVEN	SHARP	R-CD2200M	(2) TO BE USED IN TEMP. POD AS ITEM #TP7
D27	1	COUNTER TOP CHAR BROILER	MONTAGUE	UFLC-24R	W/ 8" PLATE SHELF
D28	1	REFRIGERATED EQUIPMENT STAND	CONTINENTAL	D84GN	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING
D29	1	TUBULAR WALL SHELF	FABRICATOR	CUSTOM	-
D30	-	SPARE NUMBER	-	-	-
D31	3	HAND SINK W/ SIDE SPLASHES	ADVANCE TABCO	7-PS-66W	-
D32	1	REFRIGERATOR	CONTINENTAL	D1RENSS	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING
D33	1	FIRE SUPPRESSION SYSTEM	ANSUL	R-102	FOR ITEM HOOD #D12
D34	2	TRAY STARTER STATION	METRO	INM-STARTER 2460FS	(1) TO BE USED IN TEMP. POD AS ITEM #TP19
D35	2	MOBILE TRAY LOWERATOR	CADDY	CM-2015-C	(1) TO BE USED IN TEMP. POD AS ITEM #TP21
D36	-	SPARE NUMBER	-	-	-
D37	4	AIR-CURTAIN REFRIGERATOR	F.W.E.	ASU-10	W/ CASTERS / E-CONTROL MONITORING (4) TO BE USED IN TEMP. POD AS ITEM #TP22
D38	2	MOBILE DOME STORAGE RACK	ALADDIN	SR100	(1) TO BE USED IN TEMP. POD AS ITEM #TP27
D39	-	SPARE NUMBER	-	-	-
D40	-	SPARE NUMBER	-	-	-
D41	2	FREEZER	CONTINENTAL	D1FNSSGD	W/ CASTERS / EXPANSION VALVE / E-CONTROL MONITORING (2) TO BE USED IN TEMP. POD AS ITEM #TP26
D42	1	S/S UTILITY CHASE	FABRICATOR	CUSTOM	-
D43	2	SCANNER	-	-	BY OWNER
D44	14	MOBILE CUP / GLASS RACK DOLLY	METRO	D2121C	-
D45	4	WATER FILTER	EVERPURE	QTCR-1	FOR COFFEE BREWERS ITEM #D46
D46	4	COFFEE BREWER W/ URNS	-	-	BY VENDOR (2) TO BE USED IN TEMP. POD AS ITEM #TP20
D47	2	COUNTER TOP HOT FOOD WELL	VOLLRATH	72000	-
D48	2	CONVEYOR TOASTER	HATCO	TQ-10	-
D49	-	SPARE NUMBER	-	-	-
D50	-	SPARE NUMBER	-	-	-
D51	1	MOBILE PATIENT TRAY CART	F.W.E.	ETC-1520-24p IM-*1025	(1) TO BE USED IN TEMP. POD AS ITEM #TP25
D52	5	MOBILE POKER CHIP DISH DOLLY	METRO	PCD11A	-
D53	11	MOBILE PATIENT TRAY CART	F.W.E.	ETC-1520-12p IM-*1025	(7) TO BE USED IN TEMP. POD AS ITEM #TP24
D54	1	INTELLIGATE TEMPERARTURE MONITORING SYSTEM	E-CONTROL SYSTEMS	IG1-10002B	W/ REQUIRED E. SENSORS / INTELLICHECK
D55	1	WALK-IN IN PROCESS COOLER ASSEMBLY	IMPERIAL BROWN	CUSTOM	W/ E-CONTOL TEMP. MONITORING
D56	2	BLOWER COIL + 35°	IMPERIAL BROWN	CUSTOM	FOR IN-PROCESS COOLER
D57	1	REMOTE CONDENSING UNIT	IMPERIAL BROWN	CUSTOM	FOR IN-PROCESS COOLER / LOCATED ON ROOF. SEE FS04-A.1
D58	LOT	IN PROCESS COOLER STORAGE SHELVING	METRO	MAX Q	W/ SOLID BOTTOM SHELF
D59	1	REMOTE CONDENSING UNIT STAND	-	-	BY GENERAL CONTRACTOR / LOCATED ON ROOF. SEE FS04-A.1
D60	21	MOBILE PAN RACK	METRO	RF3N	-
D61	1	S/S STANDARD FLOOR TROUGH W/ GRATE	IMC TEDDY	CUSTOM	SIZE AS SHOWN PER PLAN
D62	-	SPARE NUMBER	-	-	-
D63	-	SPARE NUMBER	-	-	-
D64	1	WATER FILTER	EVERPURE	EV9324-72	FOR ITEM ICE MAKER #74
D65	-	SPARE NUMBER	-	-	-
D66	LOT	SODA ROOM STORAGE SHELVING	METRO	MAX Q	W/ SOLID BOTTOM SHELF
D67	1	S/S WALL SHELF	FABRICATOR	CUSTOM	-
D68	2	AMBIENT CARBONATOR	-	-	BY VENDOR
D69	2	ROLL-IN HEATED CABINET	CONTINENTAL	DL2WI-SS	W/ E-CONTROL MONITORING
D70	-	SPARE NUMBER	-	-	-
D71	1	WATER FILTER	EVERPURE	EV9275-02	FOR ITEM AMBIENT CARBONATORS #D68
D72	-	SPARE NUMBER	-	-	-
D73	1	ICE STORAGE BIN	SCOTSMAN	B530S	EXISTING / RELOCATED
D74	1	CUBE ICE MAKER	SCOTSMAN	B0530SW-1E	EXISTING / RELOCATED
D75	1	SODA SYSTEM	-	-	EXISTING / RELOCATED
D76	1	MOBILE PATIENT TRAY CART	ALADDIN	-	EXISTING / RELOCATED (1) TO BE USED IN TEMP. POD AS ITEM #TP23
D77	1	S/S UTILITY CHASE	FABRICATOR	CUSTOM	-

GENERAL NOTES

PLEASE DISREGARD ANY NOTES THAT DO NOT APPLY TO THIS PROJECT

DIMENSION SHOWN ARE DESIGN PURPOSES ONLY & ARE TO BE CONSIDERED FROM FINISHED WALLS. ALL DIMENSIONS GIVEN MUST BE FIELD VERIFIED BEFORE FINAL PLANS ARE SUBMITTED.

THESE DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTIONS W/THE WRITTEN FOODSERVICE EQUIPMENT SPECIFICATIONS AS WRITTEN BY INMAN FOODSERVICES GROUP & IN COORDINATION W/ARCHITECTURAL/ENGINEERING DRAWINGS AS AN AID TO ALL CONTRACTORS INVOLVED W/FOODSERVICE EQUIPMENT.

INDICATED MECHANICAL, ELECTRICAL & PLUMBING INFORMATION & OUTLETS HAVE BEEN LOCATED AS ACCURATELY AS CAN BE DETERMINED & ARE INTENDED TO SUIT REQUIREMENTS OF FIXTURES & EQUIPMENT AS SPECIFIED IN THIS CONTRACT DOCUMENT SET. INMAN FOODSERVICES GROUP SHALL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES WHICH MAY DEVELOP BETWEEN LOCATIONS OF CONNECTIONS SHOWN & ACTUAL LOCATIONS OF CONNECTIONS OF FIXTURE FURNISHED.

CONNECTIONS SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS ON FIXTURES, EXCEPT WHERE OTHERWISE NOTED & ALLOWANCES MUST BE MADE FOR TRAPS, VALVES, SWITCHES OR OTHER CONNECTIONS REQUIREMENTS SO AS NOT TO INTERFERE W/OPERATIONS OF ITEMS OF FOODSERVICE EQUIPMENT.

KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH THE DIMENSIONED EQUIPMENT LAYOUT PLAN & MECHANICAL, ELECTRICAL & PLUMBING ROUGH-IN DRAWINGS AS PER THE WRITTEN SPECIFICATIONS AS DETAILED UNDER 1.22 SUBMITTALS REQUIREMENTS & APPROVALS.

THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DISCREPANCIES BETWEEN THE CONNECTIONS SHOWN HEREIN & THOSE REQUIRED FOR THE ACTUAL EQUIPMENT FURNISHED AS A RESULT OF SUBSTITUTIONS OR CHANGES INITIATED BY THE KITCHEN EQUIPMENT CONTRACTOR. THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ANY & ALL RE-ENGINEERED OR REDESIGN COST INCURRED BY SAID SUBSTITIONS OR CHANGES.

CONNECTIONS, LOADS & CONSUMPTION SHOWN ON UTILITY CONNECTIONS PLANS ARE FOR ONE UNIT. TO DETERMINE TOTAL REQUIREMENTS MULTIPLY BY NUMBER IN EQUIPMENT SPECIFICATIONS.

CONSUMPTION RATES SHOWN ON CONNECTION PLANS ARE MAXIMUM RATES ONLY. ACTUAL CONSUMPTION WILL DEPEND UPON THE TOTAL HOURS THE VARIOUS EQUIPMENT ITEMS ARE OPERATED.

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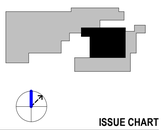

ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

PHASE 2 (AREA - D) EQUIPMENT PLAN AND SCHEDULE

SHEET NUMBER

FS01-D.1

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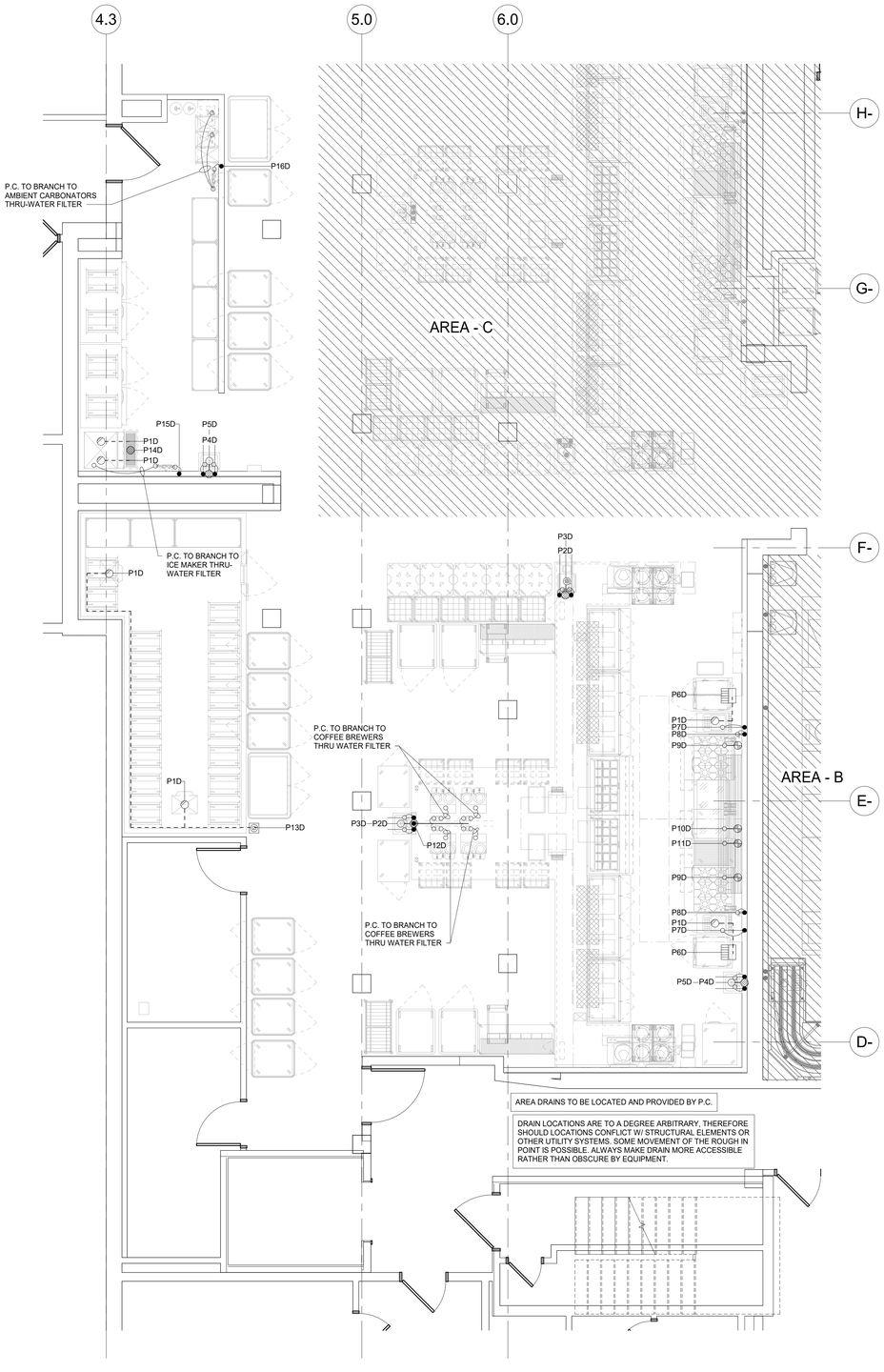

1 PHASE 2 (AREA - D) PLUMBING PLAN
1/4" = 1'-0"

PHASE 2 (AREA - D) PLUMBING CONNECTIONS SCHEDULE

NUMBER	SIZE	DESCRIPTION	LOCATION	A.F.F.	SERVICE TO	ITEM NO.	REMARKS
P1D	1"	INDIRECT WASTE	-	-	AIR GAP DRAIN	-	-
P2D	1/2"	HOT & COLD WATER	FA	CLG.	HAND SINK	D1 / D31	P.C. TO BRANCH TO CONNECTION AS REQUIRED THRU-S/S CHASE
P3D	1-1/2"	DIRECT WASTE	FLOOR	STUB	HAND SINK	D1 / D31	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P4D	1/2"	HOT & COLD WATER	WALL	18"	HAND SINK	D31	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P5D	1-1/2"	DIRECT WASTE	WALL	22"	HAND SINK	D31	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P6D	-	FLOOR SINK	-	-	-	-	-
P7D	3/4"	COLD WATER	WALL	18"	PASTA COOKER	D17	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P8D	1/2"	COLD WATER	WALL	54"	POT FILLER	D18	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P9D	1"	GAS @ 180,000 BTU	WALL	18"	COUNTER TOP 6 BURNER RANGE	D23	P.C. TO BRANCH TO CONNECTION AS REQUIRED / PROVIDE QUICK DISCONNECT
P10D	3/4"	GAS @ 120,000 BTU	WALL	18"	COUNTER TOP GRIDDLE	D25	P.C. TO BRANCH TO CONNECTION AS REQUIRED / PROVIDE QUICK DISCONNECT
P11D	1"	GAS @ 76,000 BTU	WALL	18"	COUNTER TOP CHAR BROILER	D27	P.C. TO BRANCH TO CONNECTION AS REQUIRED / PROVIDE QUICK DISCONNECT
P12D	3/4"	COLD WATER	FA	CLG.	WATER FILTER	D45	P.C. TO BRANCH TO CONNECTION AS REQUIRED THRU S/S CHASE
P13D	-	FUNNEL FLOOR DRAIN	-	-	-	-	-
P14D	4"	DIRECT WASTE	FLOOR	STUB	FLOOR TROUGH	D61	-
P15D	1/2"	COLD WATER	WALL	76"	WATER FILTER	D64	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P16D	1/2"	COLD WATER	WALL	90"	WATER FILTER	D71	P.C. TO BRANCH TO CONNECTION AS REQUIRED

PLUMBING NOTES

PLEASE DISREGARD NOTES THAT DO NOT APPLY TO THIS PROJECT

ALL DIMENSIONS ARE FROM FINISHED WALLS, FLOORS, CEILINGS &/OR FROM CENTERLINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR & ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO-FINISH" UNLESS OTHERWISE NOTED.

UTILITIES SHOWN ARE FOR ITEMS OF FOODSERVICE EQUIPMENT ONLY & ARE THE MINIMUM REQUIRED TO OPERATE EQUIPMENT. LOCATIONS OF ANY ADDITIONAL PLUMBING UTILITIES WHICH MAY BE REQUIRED SHALL BE DETERMINED BY THE ARCHITECT/ ENGINEER.

PLUMBING PLAN SHOWS OUTLET & CONNECTIONS LOCATIONS W/CAPACITIES. FOR ACTUAL ROUGH-IN LOCATIONS, REFER TO DIMENSIONED DRAWINGS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR.

FINAL PLUMBING CONNECTIONS INCLUDING MOUNTING OF DRAINS, FAUCETS & PIPING FROM POINT-OF-CONNECTIONS ON EQUIPMENT TO BUILDING PLUMBING SYSTEM & INTERCONNECTIONS BETWEEN EQUIPMENT COMPONENTS SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

PLUMBING CONTRACTOR SHALL PROVIDE FINAL INTERCONNECTIONS BETWEEN EQUIPMENT & UTILITY DISTRIBUTION SYSTEM. QUICK DISCONNECT HOSES SHALL BE FURNISHED LOOSE BY THE KITCHEN EQUIPMENT CONTRACTOR.

ALL PLUMBING MATERIALS, INCLUDING PIPE, TRAPS, STOPS, VALVES, FITTINGS, SHUT-OFFS, WATER HAMMER ARRESTORS, PRESSURE REDUCING VALVES, GAUGES, UNIONS & INSULATION SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

PLUMBING CONTRACTOR SHALL INSTALL ALL FAUCETS & PLUMBING ACCESSORIES PROVIDED LOOSE BY KITCHEN EQUIPMENT CONTRACTOR.

UTILITIES (GAS, WATER & STEAM) SHALL BE CONCEALED IN WALLS & STUBBED-OUT OF FINISHED WALLS. 6" PIPING STUBBED OUT OF THE FLOOR OR WALL & RUN EXPOSED SHALL NOT BE ACCEPTABLE & IS IN VIOLATION OF HEALTH DEPARTMENT CODES. ALL PENETRATIONS SHALL BE SEALED & WATER TIGHT.

ALL EXPOSED PIPING SHALL BE CHROME PLATED TO SATISFY LOCAL HEALTH DEPARTMENT.

PLUMBING COMPONENTS, PROVIDED BY PLUMBING CONTRACTOR INCLUDING VALVES, TRAPS, SHUT-OFFS, GAUGES AND CONNECTIONS SHALL NOT INTERFERE IN ANY WAY W/THE OPERATION OF ITEMS OF FOODSERVICE.

WATER PRESSURE IN EQUIPMENT AREA SHOULD NOT EXCEED 50 PSI IN BOTH HOT & COLD WATER SUPPLY LINES. THE WATER PRESSURE TO DISHWASHERS, GLASSWASHERS & BOOSTER HEATERS SHOULD NOT EXCEED 25 PSI. PRESSURE REDUCING VALVES PROVIDED BY PLUMBING CONTRACTOR MUST MEET EQUIPMENT MANUFACTURER'S FLOOR RECOMMENDATIONS.

FLOOR SINKS SHALL BE INSTALLED FLUSH W/FINISHED FLOOR W/OR WITHOUT GRATE COVER AS INDICATED ON PLAN.

ALL LINES SHALL BE FLUSHED FREE OF FOREIGN MATTER & LINE STRAINERS & FAUCET AERATORS CLEANED PRIOR TO MAKE-UP OF FINAL UTILITY CONNECTIONS BY PLUMBING CONTRACTOR.

GREASE TRAPS SHALL BE PROVIDED BY PLUMBING CONTRACTOR & SHALL BE RECESS-MOUNTED, FLUSH W/TOP OF FINISHED FLOOR. GREASE TRAPS SHALL NOT BE LOCATED BENEATH ANY ITEM OF FOODSERVICE EQUIPMENT & THE REMOVAL OF COVER SHALL NOT INTERFERE W/THE OPERATIONS OF ANY FOODSERVICE EQUIPMENT ITEMS.

ALL DRAIN LINES FOR DISPOSERS SHALL BY-PASS GREASE TRAPS.

HOT WATER TEMPERATURE TO BOOSTER HEATER, DISHMACHINE & GLASSWASHER MUST BE 110F. HOT WATER LINE FROM BOOSTER HEATER TO GLASSWASHER/DISHMACHINE SHALL BE PROVIDED W/WATER HAMMER ARRESTOR (ASSE-1010 STD) @ CONNECTION TO DISHWASHER & SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

DRAIN LINES FROM EVAPORATOR COILS (QUICK-FALL TYPE) SHALL BE TRAPPED OUTSIDE OF WALK-IN FREEZER/COOLER ASSEMBLIES & EXTENDED OVER BUILDING DRAIN BY PLUMBING CONTRACTOR. ALL PENETRATIONS IN WALK-IN FREEZER/COOLER ASSEMBLIES SHALL BE MADE BY KITCHEN EQUIPMENT CONTRACTOR. REFER TO EVAPORATOR COIL DETAIL.

TRENCH-TYPE DRAIN TROUGH SHALL BE FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR TO THE G.C. FOR INSTALLATION. PLUMBING CONTRACTOR SHALL PROVIDE DRAIN CONNECTIONS AS SHOWN ON DETAILS.

GAS MAIN SHALL BE PROVIDED W/A READILY ACCESSIBLE MANUAL SHUT-OFF VALVE BY PLUMBING CONTRACTOR. LOCATION OF VALVE TO BE COORDINATED W/FOODSERVICE CONSULTANT. A LOOPED GAS SERVICE IS RECOMMENDED TO PROVIDE FOR BALANCED FUEL DISTRIBUTION. SIZE OF GAS LINE TO BE DETERMINED BY ARCHITECT/ENGINEER. SEE PLUMBING SCHEDULE FOR BTU/HOUR REQUIREMENTS.

PLUMBING CONTRACTOR SHALL PROVIDE MANUAL GAS SHUT-OFF DEVICES @ EACH INDIVIDUAL PIECE OF EQUIPMENT NOT BATTERED TOGETHER. LOCATION OF FUEL SHUT-OFF VALVES TO BE COORDINATED W/FOODSERVICE CONSULTANT. GAS PRESSURE REDUCING VALVES REQUIRED FOR EACH INDIVIDUAL PIECE OF COOKING EQUIPMENT SHALL BE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR FOR INSTALLATION BY PLUMBING CONTRACTOR.

FOR VENTILATION FIRE SUPPRESSION SYSTEM W/GAS HEATED COOKING EQUIPMENT, PLUMBING CONTRACTOR SHALL INSTALL MECHANICAL FUEL SHUT-OFF VALVE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR IN GAS LINES SERVING COOKING EQUIPMENT. LOCATION OF FUEL SHUT-OFF VALVES TO BE COORDINATED W/FOODSERVICE CONSULTANT. KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE REMOTE MANUAL PULL STATION, & MICRO-SWITCH. GAS SHUT-OFF VALVE SHALL BE MECHANICALLY ACTIVATED IN CASE OF FIRE BY MECHANICAL/PNEUMATIC MECHANISM. ANY & ALL ELECTRICAL INTERCONNECTING REQUIRED FOR FAN CONTROL &/OR ALARM SYSTEMS SHALL BE BY ELECTRICAL CONTRACTOR.

DISPOSER &/OR WASTE PULPER DRAIN LINES SHALL BE PROVIDED W/ADEQUATE CLEANOUT FITTINGS.

INTERPIPING BETWEEN DISPOSER SOLENOID VALVE, DISPOSER & TROUGH &/OR SINK INLETS SHALL BE PROVIDED BY PLUMBING CONTRACTOR. SEE DETAILS FOR ADDITIONAL INFORMATION.

PLUMBING CONTRACTOR SHALL FURNISH & INSTALL ALL BELOW GRADE 6" BEVERAGE CONDUITS AS INDICATED W/24" MINIMUM SWEEPING BENDS. CUT OFF CONDUIT 6" A.F.F. & CAP OFF CONDUIT MUST BE WATER TIGHT & MATERIAL MUST MEET ALL LOCAL & STATE CODES.

PLUMBING SYMBOLS

COLD WATER	CW	●
HOT WATER	HW	●
COOLING TOWER WATER	CTW	●
COOLING TOWER WATER RETURN	CTWR	●
WASTE	W	◎
INDIRECT WASTE	IW	◔
HUB DRAIN/AIR GAP DRAIN	HD/AGD	○
FLOOR DRAIN	FD	◎
FUNNEL-TYPE FLOOR DRAIN	FFD	◎
FLOOR SINK - 1/2 GRATE	FS	▦
STEAM SUPPLY	SS	⊘
CONDENSATE RETURN	CR	◎
GAS SUPPLY	G	⊕
POINT OF CONNECTION		◠

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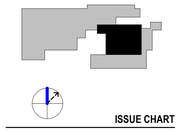
MultiCare Good Samaritan Hospital

MULTICARE

100% CD SET 6/30/2025

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

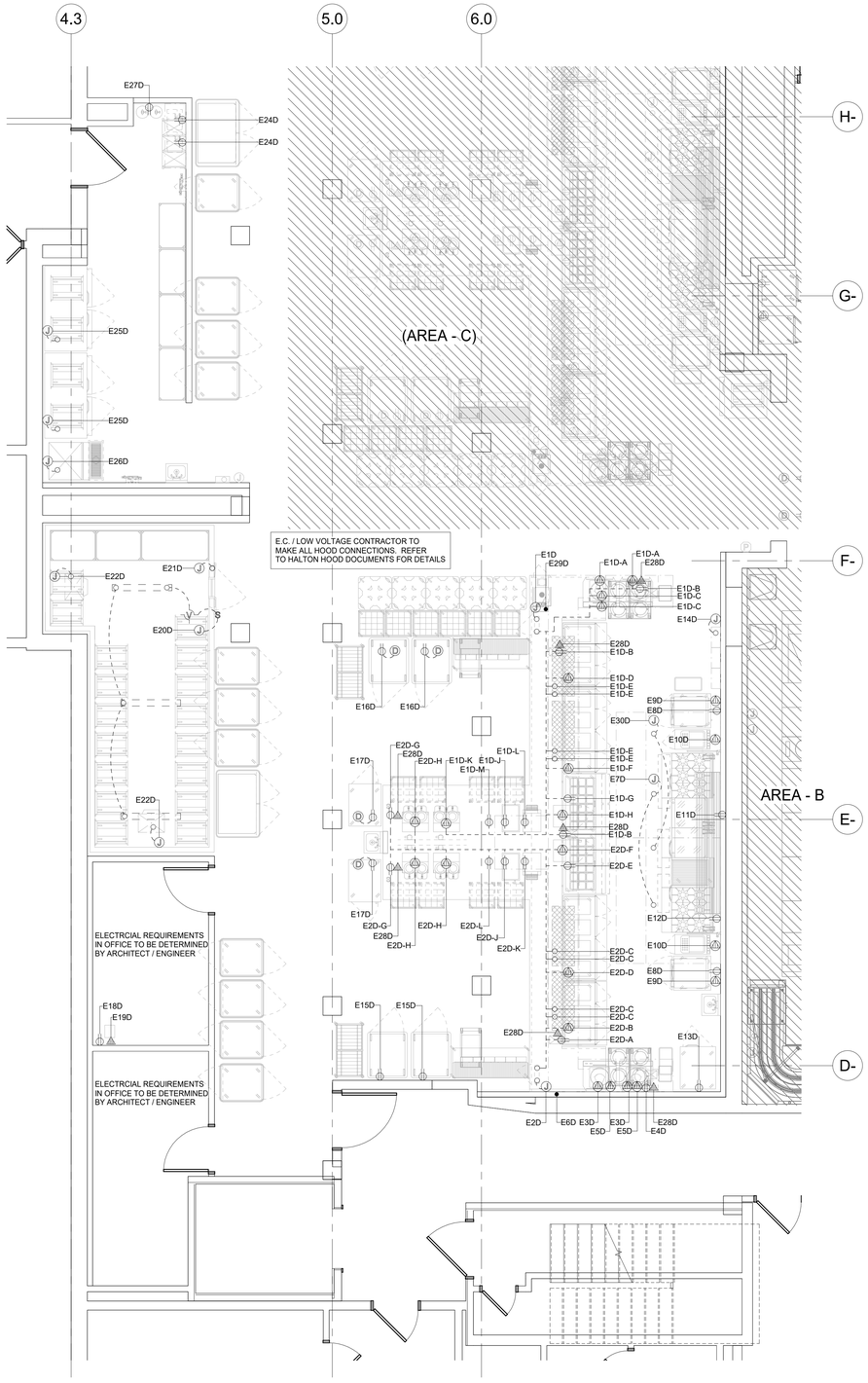
TITLE

PHASE 2 (AREA - D) PLUMBING PLAN AND SCHEDULE

SHEET NUMBER

FS01-D.2

6/24/2025 4:11:50 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-D-R25.rvt



1 PHASE 2 (AREA - D) ELECTRICAL PLAN
1/4" = 1'-0"

PHASE 2 (AREA - D) ELECTRICAL CONNECTIONS SCHEDULE

NUMBER	CONNECTION	SERVICE TO	ITEM NO.	HP	KW	AMPS	VOLT	PHASE	LOCATION	A.F.F.	REMARKS
E1D	JUNCT. BOX	ROOM SERVICE COUNTER LOAD CENTER	D1	-	-	-	120/208	3	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED - REFER TO E1D LOAD CENTER SCHEDULE
E2D	JUNCT. BOX	ROOM SERVICE COUNTER LOAD CENTER	D1	-	-	-	120/208	3	WALL	18"	E.C. TO BRANCH TO CONNECTION AS REQUIRED - REFER TO E2D LOAD CENTER SCHEDULE
E3D	SINGLE	BASE ACTIVATOR	D3	-	7.8	23.5	208	3	WALL	56"	-
E4D	DUPLEX	PRINTER (DEDICATED CURCUIT)	D4	-	-	15.0	120	1	WALL	68"	E.C. TO VERIFY LOADS OF OWNER SUPPLIED EQUIPMENT W/ OWNER
E5D	SINGLE	MOBILE HEATED PLATE DISPENSER	D5	-	.950	4.6	208	1	WALL	18"	-
E6D	-	EMPTY CONDUIT FOR EDP/POS SYSTEMS & PRINTERS	-	-	-	-	-	-	WALL	18"	E.C. TO BRANCH TO E28D COMMUNICATION DATA PORT / EVERIFY REQUIREMENTS W/ OWNER/OPERATOR
E7D	JUNCT. BOX	HOOD LIGHTS	D12	-	-	15.0	120	1	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E8D	DUPLEX	WORK TOP FREEZER	D13	1/4	-	4.8	120	1	WALL	18"	-
E9D	SINGLE	FLASH BAKE OVEN	D14	-	8.3	40.0	208	1	WALL	50"	-
E10D	SINGLE	PASTA COOKER	D17	-	7.8	19.5	208	3	WALL	18"	-
E11D	DUPLEX	REFRIGERATED EQUIPMENT STAND	D22	1/4	-	4.2	120	1	WALL	18"	-
E12D	DUPLEX	REFRIGERTAED EQUIPMENT STAND	D28	1/4	-	4.2	120	1	WALL	18"	-
E13D	DUPLEX	REFRIGERATOR	D32	1/3	-	6.3	120	1	WALL	76"	-
E14D	JUNCT. BOX	FIRE SUPPRESSION SYSTEM	D33	-	-	10.0	120	1	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E15D	DUPLEX	AIR CURTAIN REFRIGERATOR	D37	-	1.020	8.5	120	1	WALL	18"	-
E16D	DC / DUPLEX	AIR CURTAIN REFRIGERATOR	D37	-	1.020	8.5	120	1	FA	CLG	E.C. TO PROVIDE DROP CORD AS REQUIRED
E17D	DC / DUPLEX	FREEZER	D41	1/2	-	7.1	120	1	FA	CLG	E.C. TO PROVIDE DROP CORD AS REQUIRED
E18D	DUPLEX	INTELLIGATE TEMPERATURE MONITORING SYSTEM	D54	1/3	-	10.0	120	1	WALL	50"	-
E19D	COMMUNICATION DATA PORT	INTELLIGATE TEMPERATURE MONITORING SYSTEM	D54	-	-	-	-	-	WALL	50"	COORDINATE W/OWNER/OPERATOR
E20D	JUNCT. BOX	LIGHTS	D55	-	-	5.0	120	1	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E21D	JUNCT. BOX	DOOR HEATER ALARM	D55	-	-	5.0	120	1	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E22D	JUNCT. BOX	BLOWER COIL	D56	-	-	15.0	120	1	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E23D	-	SPARE NUMBER	-	-	-	-	-	1	-	-	-
E24D	DUPLEX	AMBIENT CARBONATOR	D68	-	-	15.0	120	1	WALL	85"	E.C. TO VERIFY LOADS OF VENDOR SUPPLIED EQUIPMENT W/ OWNER
E25D	JUNCT. BOX	ROLL-IN HEATED CABINET	D69	-	3.0	13.9	208	1	WALL	86"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E26D	JUNCT. BOX	CUBE ICE MAKER	D74	-	-	7.8	208	1	WALL	72"	E.C. TO VERIFY LOADS OF EXISTING / RELOCATED EQUIPMENT W/ OWNER
E27D	DUPLEX	CO2 SENSOR	D75	-	-	10.0	120	1	WALL	18"	-
E28D	COMMUNICATION DATA PORT	PRINTERS / SCANNERS	-	-	-	-	-	-	WALL	50"	-
E29D	-	EMPTY CONDUIT FOR EDP/POS SYSTEMS & PRINTERS	-	-	-	-	-	-	FA	CLG	E.C. TO BRANCH TO E28D COMMUNICATION DATA PORT / EVERIFY REQUIREMENTS W/ OWNER/OPERATOR
E30D	JUNCT. BOX	HOOD CONTROLLER	D12	-	-	15.0	120	1	FA	CLG	E.C. TO BRANCH TO CONNECTION AS REQUIRED

PHASE 2 E1D LOAD CENTER ELECTRICAL CONNECTIONS SCHEDULE

NUMBER	CONNECTION	QTY	SERVICE TO	ITEM NO.	HP	KW	AMPS	VOLT	PHASE	REMARKS
E1D-A	SINGLE	2	BASE ACTIVATOR	D3	-	7.8	23.5	208	3	-
E1D-B	DUPLEX	3	PRINTER (DEDICATED CURCUIT)	D4	-	-	15.0	120	1	E.C. TO VERIFY LOADS OF OWNER SUPPLIED EQUIPMENT W/ OWNER
E1D-C	SINGLE	2	MOBILE HEATED PLATE DISPENSER	D5	-	.950	4.6	208	1	-
E1D-D	SINGLE	1	3-WELL HOT FOOD TABLE W/ HEATED BASE	D6	-	4.641	19.3	208	1	-
E1D-E	JUNCT. BOX	4	HEAT LAMP W/ LIGHTS	D8	-	1.840	9.7	120/208	1	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E1D-F	SINGLE	1	4-WELL HOT FOOD TABLE W/ HEATED BASE	D16	-	6.188	25.8	208	1	-
E1D-G	DUPLEX	1	REFRIGERATED SANDWICH PREPARATION UNIT	D24	1/4	-	4.8	120	1	-
E1D-H	SINGLE	1	MICROWAVE OVEN	D26	-	3.2	14.0	208	1	-
E1D-J	DUPLEX	1	COUNTER TOP HOT FOOD WELL	C43	-	1.0	8.3	120	1	-
E1D-K	SINGLE	1	COFFEE BREWER	D46	-	-	30.0	120/208	1	E.C. TO VERIFY LOADS OF VENDOR SUPPLIED EQUIPMENT W/ OWNER
E1D-L	DUPLEX	1	CONVEYOR TOASTER	D48	-	1.8	15.0	120	1	-
E1D-M	DUPLEX	1	CONVENIENCE OUTLET	-	-	-	16.0	120	1	-

PHASE 2 E2D LOAD CENTER ELECTRICAL CONNECTIONS SCHEDULE

NUMBER	CONNECTION	QTY	SERVICE TO	ITEM NO.	HP	KW	AMPS	VOLT	PHASE	REMARKS
E2D-A	DUPLEX	1	PRINTER (DEDICATED CURCUIT)	D3	-	-	15.0	120	1	-
E2D-B	SINGLE	1	3-WELL HOT FOOD TABLE W/ HEATED BASE	D6	-	4.641	19.3	208	1	-
E2D-C	JUNCT. BOX	4	HEAT LAMP W/LIGHTS	D8	-	1.840	9.7	120/208	1	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E2D-D	SINGLE	1	4-WELL HOT FOOD TABLE W/ HEATED BASE	D16	-	6.188	25.8	208	1	-
E2D-E	DUPLEX	1	REFRIGERATED SANDWICH PREPARATION UNIT	D24	1/4	-	4.8	120	1	-
E2D-F	SINGLE	1	MICROWAVE OVEN	D26	-	3.2	14.0	208	1	-
E2D-G	DUPLEX	2	SCANNER (DEDICATED CUCUIT)	D43	-	1.8	15.0	120	1	E.C. TO VERIFY LOADS OF OWNER SUPPLIED EQUIPMENT W/ OWNER
E2D-H	SINGLE	3	COFFEE BREWER	D46	-	-	30.0	120/208	1	E.C. TO VERIFY LOADS OF VENDOR SUPPLIED EQUIPMENT W/ OWNER
E2D-J	DUPLEX	1	COUNTER TOP HOT FOOD WELL	D47	-	1.0	8.3	120	1	-
E2D-K	DUPLEX	1	CONVEYOR TOASTER	D48	-	1.8	15.0	120	1	-
E2D-L	DUPLEX	1	CONVENIENCE OUTLET	-	-	-	16.0	120	1	-

ELECTRICAL NOTES

PLEASE DISREGARD NOTES NOT APPLICABLE TO THIS PROJECT

ELECTRICAL SYSTEM IS DESIGNED FOR 120/208/3 VOLT, 3 PHASE, 60 HERTZ SYSTEM.

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILING &/OR FROM CENTERLINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR & ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO FINISH" UNLESS OTHERWISE NOTED.

UTILITIES SHOWN ARE FOR ITEMS FOR FOODSERVICE EQUIPMENT ONLY & ARE THE MINIMUM REQUIRED TO OPERATE EQUIPMENT, LOCATIONS OF ANY ADDITIONAL ELECTRICAL UTILITIES (CONVENIENCE RECEPTACLES, TELEPHONE JACKS, INTERCOM JACKS, ETC.) WHICH MAY BE REQUIRED SHALL BE DETERMINED BY THE ARCHITECT/ENGINEER.

ELECTRICAL PLAN SHOWS OUTLETS & CONNECTIONS W/CAPACITIES FOR ACTUAL ROUGH-IN LOCATIONS. REFER TO DIMENSIONED DRAWINGS PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR.

FINAL ELECTRICAL CONNECTIONS INCLUDING WIRING FROM POINT-OF CONNECTION ON EQUIPMENT TO BUILDING ELECTRICAL SYSTEM & INTERCONNECTIONS BETWEEN EQUIPMENT COMPONENTS SHALL E PROVIDED BY ELECTRICAL CONTRACTOR.

ALL ELECTRICAL MATERIALS, INCLUDING WIRE, CONDUIT, OVERLOAD PROTECTION, MAIN SWITCHES, SAFETY CUT-OUTS, FUSE BOXES, SHUNT-TRIP BREAKERS, DISCONNECT SWITCHES, & CONTROLS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

UTILITIES SHALL BE CONCEALED IN WALLS & STUBBED-OUT OF WALLS. WIRING STUBBED OUT OF FLOOR & RUN EXPOSED ON THE FACE OF THE WALL SHALL NOT BE ACCEPTABLE.

ELECTRICAL COMPONENTS, INCLUDING MAIN SWITCHES, FUSE BOXES, TERMINAL PANELS, DISCONNECT SWITCHES CONDUIT & CONNECTIONS SHALL NOT INTERFERE IN ANY WAY W/THE OPERATION OF ITEMS OF FOODSERVICE EQUIPMENT.

AMPERAGES INDICATED PER TOTAL FOR EACH UNIT & NOT IN ADDITION TO ANY HP &/OR KW RATINGS SHOWN.

WHERE CALLED FOR, KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH CORDS & PLUGS FOR INSTALLATION BY ELECTRICAL CONTRACTOR. NEMA NUMBERS SHOWN INDICATE THE CONFIGURATION TO BE PROVIDED FOR THE EQUIPMENT. ANY DIRECT CONNECTIONS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

ALL LIGHT FIXTURES IN FOOD STORAGE, PREPARATION, SERVICE OR DISPLAY FACILITIES, AS WELL AS UTENSIL CLEANING & STORAGE AREAS SHALL HAVE SHIELDING OVER BULBS.

KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE WALK-IN FREEZER/COOLER ASSEMBLIES COMPLETE W/OUTLET BOXES, DOOR HEATERS & ALL SYSTEM COMPONENTS PRE-WIRED TO A SINGLE POINT OF CONNECTION, ELECTRICAL CONTRACTOR SHALL PROVIDE INTERCONNECTION CONDUIT & WIRING & MAKE FINAL CONNECTIONS.

ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL POWER TO & INTERCONNECTION BETWEEN EVAPORATOR COIL, TIME CLOCK, TEMPERATURE CONTROL DEVICE, & CONDENSING UNITS, FOR WALK-IN FREEZER/COOLER ASSEMBLIES FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR.

DRAIN LINE FROM FREEZER COIL SHALL BE WRAPPED W/HEAT CABLE, TAPED & INSULATED TO PREVENT FREEZING OF CONDENSATE IN THE LINE, BY ELECTRICAL CONTRACTOR.

WALK-IN FREEZER/COOLER VAPOR-PROOF LIGHT FIXTURES ARE SHIPPED LOOSE BY KITCHEN EQUIPMENT CONTRACTOR FOR FIELD INSTALLATION & INTERWIRING AS REQUIRED BY ELECTRICAL CONTRACTOR.

ALL PENETRATIONS INTO WALK-IN FREEZER/COOLERS SHALL BE MADE BY THE KITCHEN EQUIPMENT CONTRACTOR.

ELECTRICAL CONTRACTOR SHALL SEAL ALL PENETRATIONS MADE INTO WALK-IN FREEZER/ COOLER ASSEMBLIES, REFRIGERATORS, EXHAUST VENTILATORS W/METHODS & MATERIALS AS APPROVED BY EQUIPMENT MANUFACTURER.

KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE EXHAUST VENTILATOR ASSEMBLIES COMPLETE W/CONTROL PANEL, WASH-DOWN PANEL, LIGHTS, & FIRE SUPPRESSION SYSTEM. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER TO & INTERCONNECTIONS BETWEEN VENTILATOR, CONTROL PANEL, WASH-DOWN PANEL LIGHTS, EXHAUST & SUPPLY FAN, MAGNETIC STARTERS, & ALL MISCELLANEOUS COMPONENTS. SEE PLAN & VENTILATOR SHOP DRAWINGS FOR ADDITIONAL INFORMATION.

ELECTRICAL NOTES (CONT.)

FOR VENTILATOR FIRE SUPPRESSION SYSTEM W/ELECTRICALLY HEATED COOKING EQUIPMENT, KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE REMOTE MANUAL PULL STATION, & MICRO-SWITCH. ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL ELECTRICAL CONTACTOR &/OR SHUNT-TRIP BREAKERS & ALL INTERCONNECTION CONDUIT & WIRING FOR SHUT-OFF OF ALL ELECTRICALLY HEATED COOKING EQUIPMENT. CONTACTOR FOR SHUNT-TRIP RELAYS SHALL BE ACTIVATED IN CASE OF FIRE BY MICRO-SWITCH AS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR.

FIRE PROTECTION SYSTEM REMOTE CABLE PULL BOX SHALL BE RECESS MOUNTED OCTAGONAL J-BOX & CENTERED @ 48" A.F.F. W/1/2" EMT CONDUIT OUT OF TOP, CONCEALED IN WALL TO 6" ABOVE FINISHED CEILING, BY ELECTRICAL CONTRACTOR.

ELECTRICAL CONTRACTOR SHALL PROVIDE AN EMPTY CONDUIT BETWEEN WASTE PULPING UNIT & WASTE EXTRACTOR UNIT FOR LOW VOLTAGE CONTROL WIRING.

ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY CONDUIT W/J-BOXES FOR INSTALLATION OF OWNER SUPPLIED CASH REGISTER SYSTEM. VERIFY EXACT REQUIREMENTS W/EQUIPMENT SUPPLIER.

ELECTRICAL CONTRACTOR SHALL PROVIDE COMPUTER GRADE, ISOLATED GROUND ELECTRICAL SERVICE FOR ELECTRICAL CASH REGISTER EQUIPMENT. VERIFY EXACT REQUIREMENTS W/EQUIPMENT SUPPLIES.

ELECTRICAL RECEPTACLES SHALL BE INSTALLED W/THEIR LONG DIMENSIONS RUN HORIZONTALLY.

ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT RACEWAY SYSTEM, FOR REMOTE REFRIGERATION LINES AS INDICATED ON REFRIGERATION PLAN & DETAILS. CONDUIT SHALL HAVE 24" MINIMUM RADIUS BENDS.

ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT & POWER & CONTROL WIRING BETWEEN REMOTE LOW TEMPERATURE EVAPORATORS & REMOTE COMPRESSOR RACK. REFER TO DRAWINGS FOR DETAILS.

ELECTRICAL SYMBOLS

SINGLE RECEPTACLE, NEMA 5-20R	SR	
DUPLEX RECEPTACLE, NEMA 5-15R	DR	
SINGLE RECEPTACLE, 208V OR 480V	SR	
FLOOR RECEPTACLE	FR	
JUNCTION BOX	JB	
DROP CORD OR CONDUIT	DC	
CONDUIT STUB	C	
SWITCH	S	
INCANDESCENT LIGHT		
L.E.D. LIGHT		
POINT OF CONNECTION ON EQUIPMENT		
COMMUNICATIONS OUTLET		
VAPOR-PROOF LIGHTS		
PULL BOX-FIRE SUPRESSION		
GREASE SENSOR	GS	

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AHBL
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STRUCTURAL
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Seattle WA 98104

CONTRACTOR
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PLUMBING
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MECHANICAL
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PROJECT MANAGER
TURNER & TOWNSEND
920 Fifth Avenue,
Seattle, WA, 98104

100% CD SET 6/30/2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
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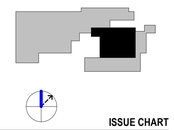
MULTICARE

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

PHASE 2 (AREA - D) ELECTRICAL PLAN AND SCHEDULE

SHEET NUMBER

FS01-D.3

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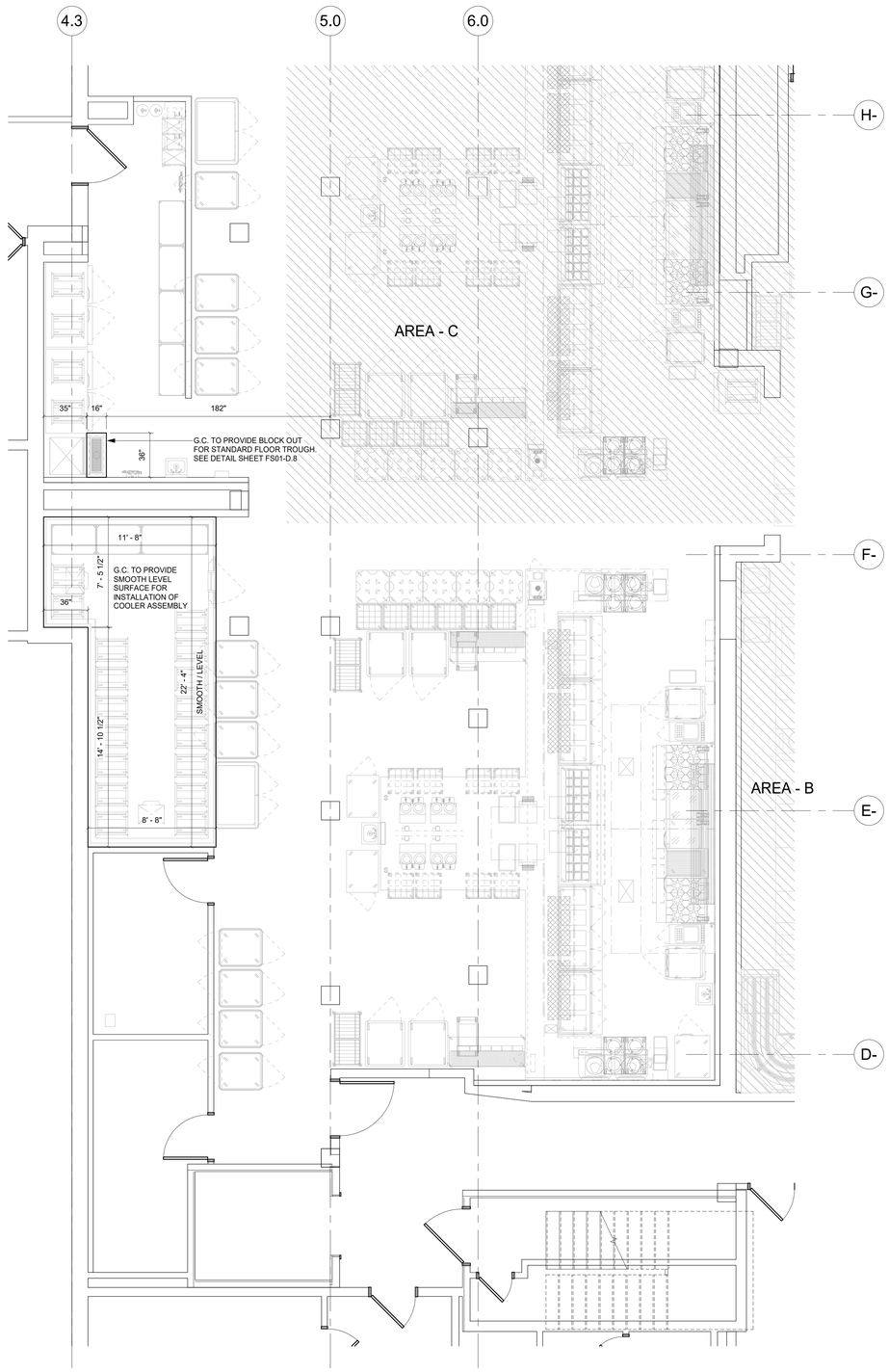

1 PHASE 2 (AREA - D) SLAB BLOCK - SLAB CONDITIONS PLAN
1/4" = 1'-0"

SLAB BLOCK OUT AND CONDITIONS NOTES

DIMENSIONS SHOWN FOR BLOCK OUTS ARE FROM CENTER LINE OF STRUCTURAL COLUMNS. DIMENSIONS FOR SMOOTH LEVEL ARE FROM WALL LOCATIONS. DIMENSIONS TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR AND ALL TRADES UTILIZING THIS PLAN

SMOOTH TRANSIENT LEVEL SURFACE REQUIRED FOR COOLER FREEZER ASSEMBLY. MANUFACTURE DOES ALLOW FOR MAXIMUM SLOPE OF 3/16" PER 10' IF TRUE LEVEL CANNOT BE ACHIEVED.

REFER TO DEATIL SHEET FOR BLOCK OUT DETAILS

SLAB BLOCK OUT SYMBOL

BLOCKOUT

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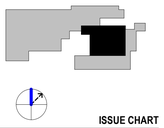
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

PHASE 2 (AREA - D)
SLAB BLOCK OUT -
SLAB CONDITIONS PLAN

SHEET NUMBER

FS01-D.4

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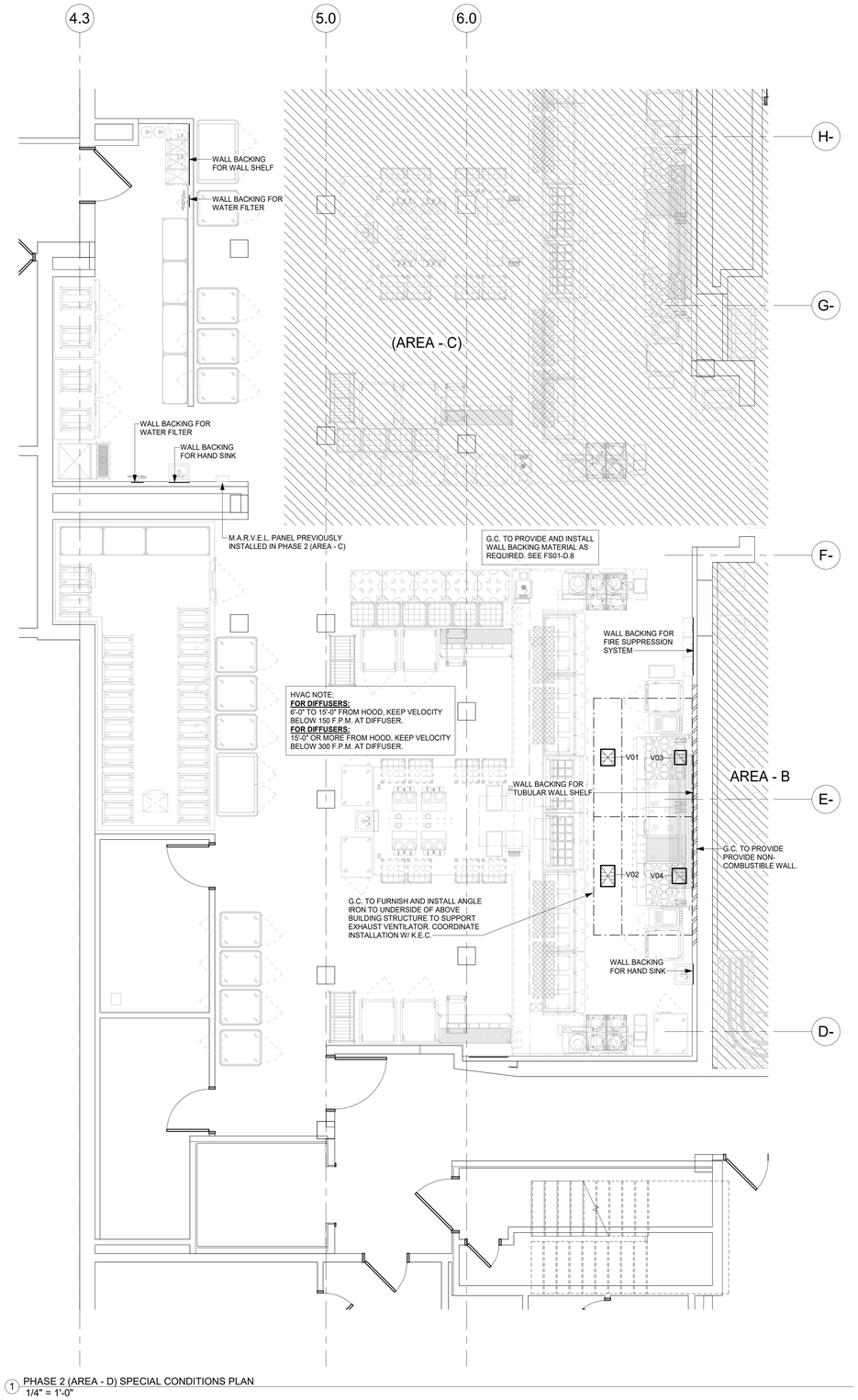

1 PHASE 2 (AREA - D) SPECIAL CONDITIONS PLAN
1/4" = 1'-0"

SPECIAL CONDITIONS NOTES

PLEASE DISREGARD NOTES THAT DO NOT APPLY TO THIS PROJECT

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILINGS &/OR FROM CENTER LINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR & ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO-FINISH" UNLESS OTHERWISE NOTED.

REFER TO ARCHITECTURAL/ENGINEERING DRAWINGS FOR ACTUAL CONSTRUCTION DIMENSIONS, LOCATION, THICKNESS & FINISH OF PARTITIONS, FURRING & FLOOR SIZES & LOCATIONS NOT INDICATED ON THE SPECIAL CONDITIONS PLAN.

CEILING SHALL BE SMOOTH, NON-ABSORBENT, WASHABLE & LIGHT COLORED, BY GENERAL CONTRACTOR.

GENERAL CONTRACTOR TO FURNISH & INSTALL ANGLE IRON TO UNDERSIDE OF BUILDING STRUCTURE ABOVE TO SUPPORT EXHAUST VENTILATOR. COORDINATE INSTALLATION W/THE KITCHEN EQUIPMENT CONTRACTOR.

DEPRESSION FOR WALK-IN FREEZER/COOLER ASSEMBLIES &/OR FLOOR TROUGHS SHALL BE SMOOTH & TRANSIT-LEVEL. REFER TO PLAN FOR SIZES, DEPTHS & ADDITIONAL INFORMATION.

CONCRETE & MASONRY BASES & CURBS SHALL BE SMOOTH & TRANSIT-LEVEL. ALL EXPOSED SURFACES SHALL BE FINISHED THE SAME AS FINISHED FLOOR. REFER TO PLAN FOR SIZES & ADDITIONAL INFORMATION.

ALL BACKING MATERIALS SUITABLE FOR WALL-MOUNTED EQUIPMENT SHALL BE PROVIDED BY GENERAL CONTRACTOR AS DETAILED.

ALL STRUCTURE SUPPORT MATERIALS & BRACING SUITABLE FOR CEILING HUNG EQUIPMENT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. COORDINATE INSTALLATION W/THE KITCHEN EQUIPMENT CONTRACTOR.

ALL RACKS &/OR PLATFORMS FOR ROOF-MOUNTED EQUIPMENT & COMPRESSOR RACKS SHALL BE PROVIDED BY GENERAL CONTRACTOR.

ALL WALL, FLOOR &/OR ROOF SLEEVES SHALL BE PROVIDED BY GENERAL CONTRACTOR.

KITCHEN EQUIPMENT CONTRACTOR SHALL UNDER NO CONDITIONS SET-IN-PLACE OR INSTALL ANY PIECE OF EQUIPMENT PRIOR TO TILE FLOORS BEING ACID WASHED & RINSED.

WHERE QUARRY TILE FLOORS ARE EXTENDED INTO WALK-IN FREEZER/COOLER ASSEMBLIES, GENERAL CONTRACTOR SHALL PROTECT ALL EXPOSED METAL SURFACES & REMOTE DOORS PRIOR TO ACID WASHING OF FLOORS & PROVIDE POWER VENTILATION TO REMOVE FUMES.

GENERAL CONTRACTOR SHALL PROVIDE WALL OPENINGS TO ACCOMMODATE ITEMS OF PASS-THRU & CONVEYOR EQUIPMENT AS DETAILED ON PLAN. REFER TO PLAN FOR ADDITIONAL INFORMATION.

BEVERAGE SYSTEM CONDUIT SHALL BE 6" MINIMUM DIAMETER W/24" MINIMUM RADIUS EASY-SWEEP BENDS @ ALL TURNS & FLOOR PENETRATIONS. CONDUITS SHALL BE RUN BELOW FLOOR SLAB WHERE EVER POSSIBLE & SHALL BE ROUTED TO PROVIDE THE SHORTEST RUNS POSSIBLE. RUNS SHOULD NOT EXCEED 75'0" W/O PULL BOX. ALL PULL BOXES SHALL BE STAINLESS STEEL WHERE EXPOSED & SHALL BE LOCATED IN ACCESSIBLE AREAS. FOR ABOVE SLAB INSTALLATIONS OR WHERE CONDUIT PASSES THROUGH RETURN AIR PLENUMS. PROVIDE 6" EMT CONDUIT(PVC WILL NOT BE PERMITTED). CONDUIT MUST BE PROVIDED BY GENERAL CONTRACTOR.

16GA. STAINLESS STEEL CORNER GUARDS SHALL BE FURNISHED & INSTALLED BY KITCHEN EQUIPMENT CONTRACTOR AS PER PLANS & DETAILS.

SPECIAL CONDITIONS SYMBOLS

SLEEVE	○
SLAB DEPRESSION	
BLOCKOUT	
RAISED CURB	
WALL BACKING	

PHASE 2 (AREA - D) VENTILATION SCHEDULE

ITEM	QTY.	SIZE	CONNECTION	C.F.M.	S.P.	REMARKS
V01	1	14" X 12"	SUPPLY	1145	0.20"	FOR HOOD #D12
V02	1	18" X 12"	SUPPLY	1549	0.20"	FOR HOOD #D12
V03	1	12" X 10"	EXHAUST	1431	0.28"	FOR HOOD #D12
V04	1	13" X 12"	EXHAUST	1936	0.43"	FOR HOOD #D12

VENTILATION NOTES

PLEASE DISREGARD ANY NOTES THAT DO NOT APPLY TO THIS PROJECT

VENTILATION DUCTWORK, EXHAUST FANS, SUPPLY FANS, INTERLOCKS, MOTOR STARTERS, DISCONNECT SWITCHES, FAN CONTROL, SWITCHES, INTERCONNECTING WIRING, CONDUIT, & FINAL CONNECTIONS (TO & FROM) VENTILATORS &/OR DISHWASHER CONDENSATE HOODS SHALL BE BY H.V.A.C./MECHANICAL CONTRACTOR.

DISHWASHER CONDENSATE DUCT & EXHAUST VENTILATOR SUPPLY & EXHAUST, DUCT SIZES & ALL OTHER VENTILATION SPECIFICATIONS FROM THE DUCT COLLAR ON SHALL BE DETERMINED BY ARCHITECT/ENGINEER & ALL NECESSARY MATERIAL & LABOR PROVIDED BY H.V.A.C./MECHANICAL CONTRACTOR.

VENTILATION CFM, STATIC PRESSURE & DUCT SIZES INDICATED ON THESE PLANS ARE THE SPECIFIED EQUIPMENT MINIMUM REQUIREMENTS.

THE FOLLOWING MINIMUM GENERAL FOODSERVICE VENTILATION REQUIREMENTS ARE RECOMMENDED:

A. COOKING, PREPARATION, POTWASHING & DISHWASHING AREAS: REFER TO ASHRAE RECOMMENDATIONS FOR AIR CHANGES PER HOUR.

B. STORAGE AREAS: 2-3 AIR CHANGES PER HOUR, 70D FAHRENHEIT MAXIMUM AMBIENT TEMPERATURE.

C. OFFICES AREAS: 4 AIR CHANGES PER HOUR.

D. AIR-COOLED REFRIGERATION CONDENSING UNITS, 1000 CFM PER HORSEPOWER SUPPLY & EXHAUST, 90D FAHRENHEIT MAXIMUM AMBIENT TEMPERATURE. ALL AREAS MUST BE VENTILATED AS REQUIRED BY APPLICABLE GOVERNING CODES.

MAKE-UP AIR SYSTEM SHALL BE DESIGNED TO PROVIDE A 10% TO 20% NEGATIVE AIR PRESSURE IN KITCHEN AREAS TO CONTAIN SMOKE & ODORS.

ADEQUATE VENTILATION (24 HOURS) IS REQUIRED FOR SELF-CONTAINED REFRIGERATION UNITS IN ENCLOSED AREAS, SUCH AS, ICE MAKERS, WALK-IN COOLER ASSEMBLIES, & BEVERAGE SYSTEMS, TO PREVENT OVERHEATING & COMPRESSOR FAILURE.

VENTILATION SYMBOLS

EXHAUST DUCT	
SUPPLY DUCT	
STATIC PRESSURE, WATER GAUGE	SPWG
CUBIC FEET/MINUTE	CFM

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE
PHASE 2 (AREA - D) SPECIAL CONDITIONS PLAN AND VENTILATION SCHEDULE

SHEET NUMBER
FS01-D.5

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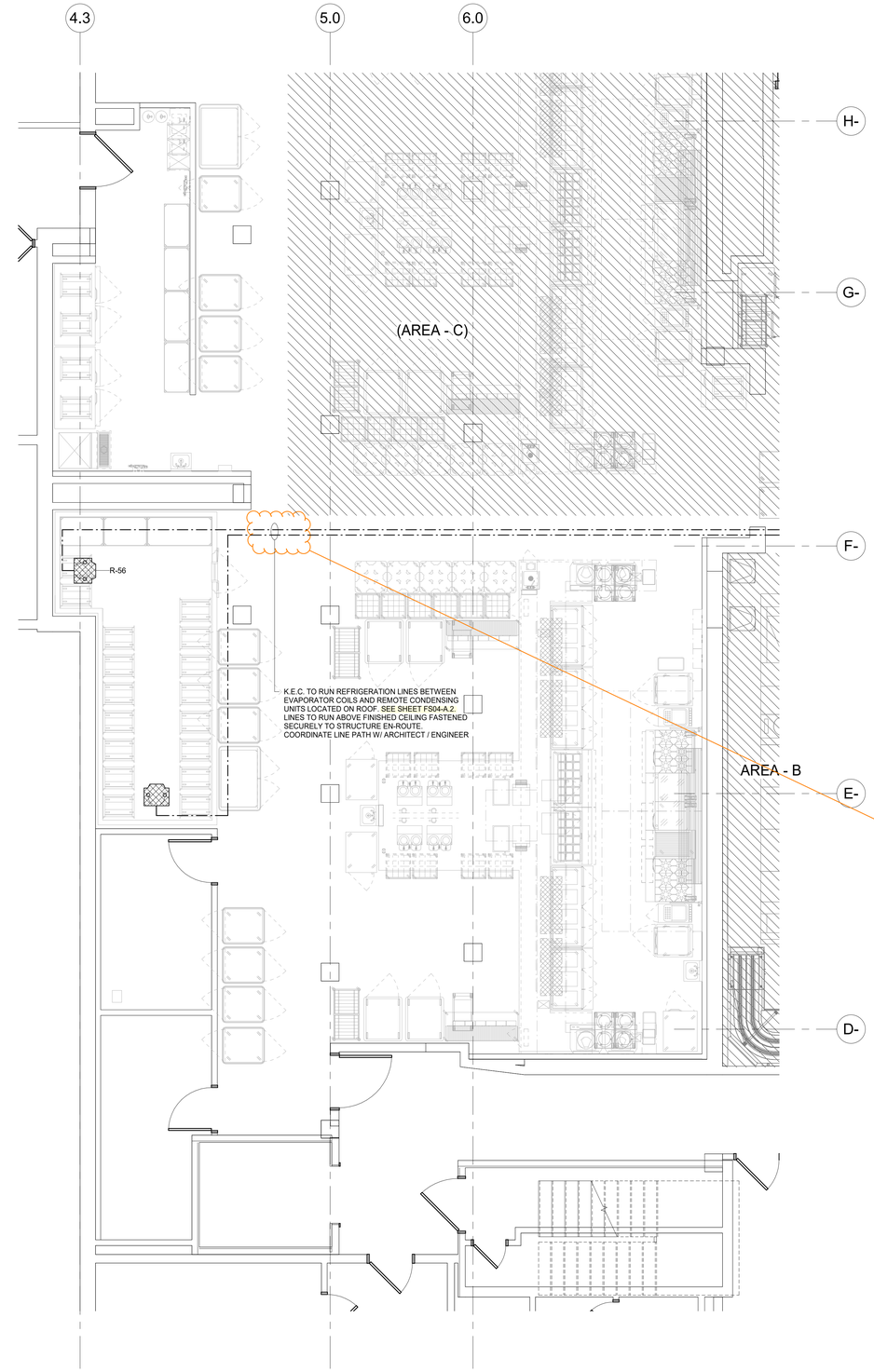

1 PHASE 2 (AREA - D) REFRIGERATION PLAN
1/4" = 1'-0"

PHASE 2 (AREA - D) REFRIGERATION CONNECTIONS SCHEDULE

ITEM	DESCRIPTION	TEMP. RANGE	REMARKS
R-56	BLOWER COIL	+35ø	FOR IN-PROCESS COOLER

REFRIGERATION NOTES

PLEASE DISREGARD ANY NOTES THAT DO NOT APPLY TO THIS PROJECT

ALL MATERIALS & INSTALLATION SHALL BE IN ACCORDANCE W/ALL LOCAL CODES & JURISDICTIONAL AUTHORITIES.

SLEEVES & CONDUIT RUNS SHOWN ON THIS PLAN ARE SCHEMATIC ONLY & FURNISHED AS A GUIDE. IT WILL BE NECESSARY TO COPE W/FIELD & CONSTRUCTION CONDITIONS. CONDUIT SYSTEM SHALL BE PROVIDED BY THE GENERAL CONTRACTOR & SHALL BE ROUTED TO PROVIDE THE SHORTEST RUNS POSSIBLE.

ALL REFRIGERATOR COPPER SHALL BE REFRIGERATION GRADE TUBING ONLY. (ALL REFRIGERATION DRAIN PIPING SHALL BE GRADE ACR OR TYPE "L" SEAMLESS). JOINTS FOR ALL HARD COPPER & SOFT COPPER TO BE SWEAT-TYPE FITTINGS. FOR STEEL TO COPPER CONNECTION USE SILVER SOLDER; COPPER TO COPPER USE SILVER BEARING ALLOY SOLDER SUCH AS EASY-FLO 45.

SUCTION LINES SHALL BE INSULATED W/APPROVED INSULATING MATERIAL. LIQUID & SUCTION LINES SHALL NOT BE CLAMPED OR SOLDERED TOGETHER DUE TO EXPANSION

MECHANICAL BENDS IN TUBING SHALL NOT BE ACCEPTABLE.

ALL SUCTION LINES WITH A VERTICAL RISE OF EIGHT FEET OR MORE SHALL HAVE A P-TRAP FOR OIL RETURN.

REFRIGERATION LINES TO WALK-IN/COOLER ASSEMBLIES SHALL BE RUN ABOVE CEILING & DROPPED @ POINT OF CONNECTION TO EVAPORATOR COIL.

KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE & INSTALL ALL REFRIGERATION SUCTION & LIQUID LINES FROM REMOTE CONDENSING UNITS TO UNIT EVAPORATORS, LINE HANGERS, ESCUTCHEON PLATES, VALVES, SIGHT GLASSES, PRESSURE CONTROLS, FILTER DRYERS, & HAND VALVES.

KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE FACTORY MOUNTED EXPANSION VALVESAND TEMPERATURE CONTROLS FOR EACH SYSTEM AS SPECIFIED.

AFTER REFRIGERANT CONNECTIONS HAVE BEEN COMPLETED. THE BALANCE OF THE SYSTEM SHALL BE LEAK TESTED W/ALL VALVES OPEN.

ALL COMPLETED REFRIGERATION SYSTEMS MUST BE EVACUATED TO 300 MICRONS OR LESS W/VACUUM PUMP.

REFRIGERATION SYMBOLS

COMPRESSOR OR COIL

REFRIGERATION LINE & CONNECTION

REFRIGERATION LINE SLEEVE WALL OR CEILING

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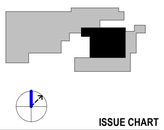
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

PHASE 2 (AREA - D) REFRIGERATION PLAN AND SCHEDULE

SHEET NUMBER

FS01-D.6

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HOOD INFORMATION TABLE

HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS						GREASE EXTRACTOR				HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	SUPPLY AIR REQUIREMENTS					PLENUM WEIGHT (LBS)
		EXHAUST CFM	TOTAL HOOD STATIC PRESSURE	T.A.B. PORT STATIC PRESSURE	EXHAUST COLLAR			QTY.	SIZE		TYPE			SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR			
					QTY.	LENGTH	WIDTH		L	H						QTY.	LENGTH	WIDTH	
D12L	KVE	1431	0.28"	0.17"	1	12"	10"	5	20"	13"	KSA	ALL 18 GA. 304 S.S.	715	1145	0.20"	1B1	14"	12"	168
								-	11"	13"									
D12R	KVE	1936	0.43"	0.31"	1	13"	12"	5	20"	13"	KSA	ALL 18 GA. 304 S.S.	715	1549	0.20"	1B1	18"	12"	168
								-	11"	13"									

TOTAL EXH. CFM = 3367 TOTAL SUPPLY CFM = 2694

MAKE UP AIR GUIDELINES

- VELOCITY MEASURED AT THE LOWER FRONT LIP OF THE HOOD SHALL NOT EXCEED 75 FPM.
- TRANSFER AIR FROM PARTS OF THE BUILDING OTHER THAN THE KITCHEN SHALL NOT EXCEED 50 FPM VELOCITY.
- NO SLOT, 2-WAY, 3-WAY OR 4-WAY CEILING DIFFUSER SHALL PROVIDE AIRFLOW DIRECTED AT HOOD. MUST INSTALL DIFFUSERS MINIMUM OF 48 " [1219 MM] AWAY FROM ALL OPEN SIDES OF HOODS*.

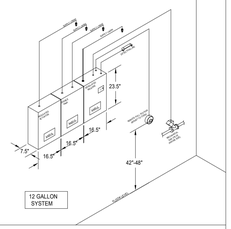
*EXCEPTION-HALTON KCDs MAY BE PLACED 24" [610 MM] AWAY FROM ALL OPEN SIDES OF HOODS.

PHASE 2 AREA D

KEF-1

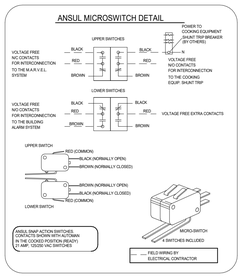
FULL FLOOD

ANSUL R-102 SYSTEM



1) ANSUL R-102 FIRE SYSTEM
2) FOUR TANK SYSTEM (12 GALLON)
3) 3/8" BLACK IRON PIPING (CONCEALED)
3/8" S.S. APPLIANCE DROPS (EXPOSED)
4) MECHANICAL GAS VALVE = (ADVISE SIZE)

ANSUL MICROSWITCH DETAIL



GENERAL SPECIFICATIONS

1- HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96, IMC SECTION 507 AND UL 710 STANDARD.

2- HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL #10314320&PRT-001

3- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.

4- THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LADEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.

5- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.

6- CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.

7- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

INSTALLATION REQUIREMENTS

KITCHEN EQUIPMENT CONTRACTOR'S REQUIREMENTS

1- PROVIDE DRAWINGS TO APPROPRIATE TRADES REFERENCING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.

2- DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.

3- FURNISH WIRING AND PLUMBING DIAGRAMS TO END USER.

4- THE K.E.C MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE K.E.C.

5- IF HALTON MANUAL EXHAUST VOLUME DAMPERS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THEIR INSTALLATION OR TO MAKE ARRANGEMENTS WITH OTHER TRADES FOR THEIR INSTALLATION.

6- IF HALTON MODEL KVL BACKSHELF STYLE HOODS ARE PROVIDED, THE K.E.C. IS RESPONSIBLE FOR THE INSTALLATION OF THE CAPTURE-JET FAN.

ELECTRICAL CONTRACTOR'S REQUIREMENTS

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

ELECTRICAL EQUIPMENT REQUIREMENTS

FLUORESCENT LIGHT FIXTURE
40 WATT MAX BULB= .67 AMP EA.

RECESSED INCANDESCENT LIGHT FIXTURE
150 WATT MAX BULB= 1.25 AMP EA.

GLOBE INCANDESCENT LIGHT FIXTURE
100 WATT MAX BULB= .83 AMP EA.

HCL LIGHT FIXTURES= .12 AMP EA.

LED LIGHT FIXTURES= .30 AMP EA.

CAPTURE JET FAN= .72 AMP EA

ALL HOOD CIRCUITS ARE NOT TO EXCEED 15 AMP

LIGHT BULBS, IF REQUIRED, ARE TO BE PROVIDED BY OTHERS

100W EQUIVALENT CFL OR LED BULBS ARE ACCEPTABLE FOR USE IN THE INCANDESCENT FIXTURE HOUSINGS

CEILING HEIGHT NOTE

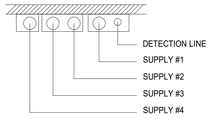
IF HALTON COMPANY IS TO PROVIDE CEILING CLOSURE PANELS, THE EXACT DIMENSION OF THE FINISHED CEILING HEIGHT MUST BE PROVIDED PRIOR TO RELEASE.

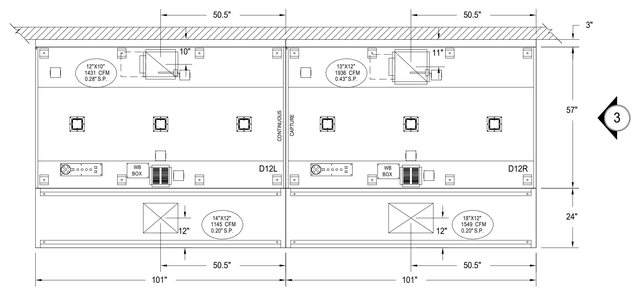
FINISHED CEILING HEIGHT A.F.F.: _____

ANSUL R-102 SYSTEM

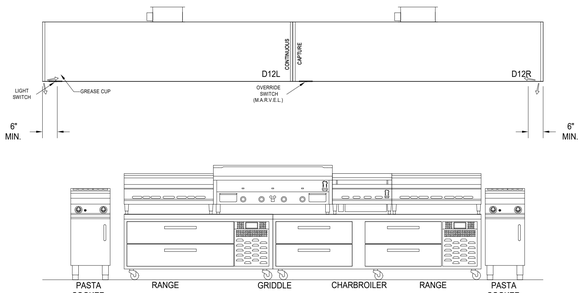
REMOTE MOUNTED:

(1) ELEC. REGULATED RELEASE (WITH ONE TANK)
(1) DOUBLE TANK ENCLOSURE (WITH TWO TANKS)
(1) REGULATED ACTUATOR (WITH ONE TANK)

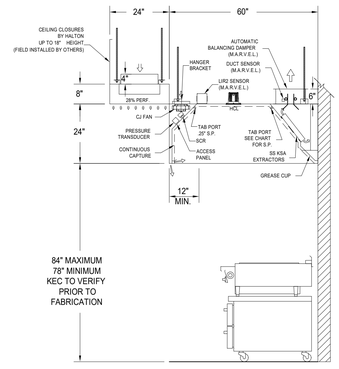




1 ITEM # D12 PLAN VIEW



2 ITEM # D12 ELEVATION VIEW

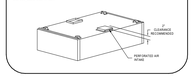


3 ITEM # D12 SECTION VIEW

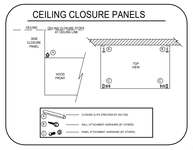
CAPTURE JET CLEARANCE DETAIL

Capture Jet ® Fan Cover Clearance

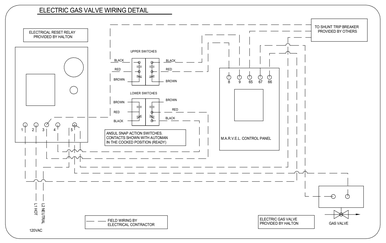
Patented Capture Jet ® technology perimeter air jets improve capture and containment of heat and grease emissions. It is very important to leave air space above and around the Capture Jet ® air intake cover on the top of the Halton hood. Please leave 2 inches of clearance on the top and sides of the Capture Jet ® air intake cover to allow unimpeded entrance of air into the Capture Jet ® fan.



CEILING CLOSURE PANELS



ELECTRIC GAS VALVE WIRING DETAIL



EXHAUST VOLUME DAMPER

MODEL: ABD (Automatic Balancing Damper)

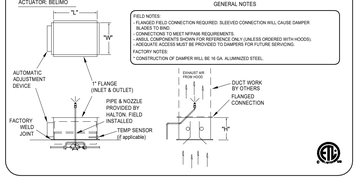
TAG	"L"(mm)	"W"(mm)	"H"(mm)	QTY	CONSTRUCTION	GREASE SENSOR	TEMP SENSOR	DETECTOR (HOOD/DAMPER)	ANSUL
D12L	12"	10"	6"	1	16 GA. ALUM	N	N	H	Y
D12R	13"	12"	6"	1	16 GA. ALUM	N	N	H	Y

ACTUATOR: BELIMO

GENERAL NOTES

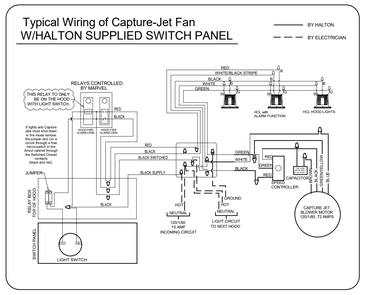
FIELD NOTES
- FLANGED FIELD CONNECTION REQUIRED. SLEEVED CONNECTION WILL CAUSE DAMPER BLADES TO BIND.
- CONNECTIONS TO MEET NFPA96 REQUIREMENTS.
- ANGLE COMPONENTS SHOWN FOR REFERENCE ONLY (UNLESS ORDERED WITH HOODS).
- ACCESS DOORS MUST BE PROVIDED TO DAMPERS FOR FUTURE SERVICING.

FACTORY NOTES
- CONSTRUCTION OF DAMPER WILL BE 16 GA. ALUMINIZED STEEL.

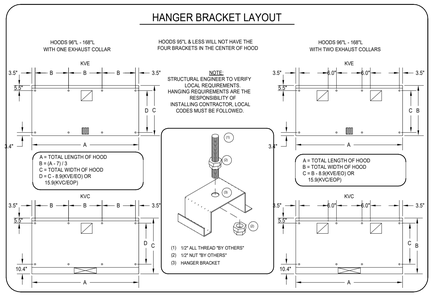


Typical Wiring of Capture-Jet Fan W/HALTON SUPPLIED SWITCH PANEL

BY HALTON
BY ELECTRICIAN



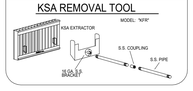
HANGER BRACKET LAYOUT



KSA GREASE EXTRACTOR

EXTRACTION OF CONTAMINANTS FROM THE EXHAUST AIR IS ACCOMPLISHED BY PASSING THE AIR THROUGH A SERIES OF EFFICIENT GREASE EXTRACTION BAFFLES BY REDIRECTING THE EXHAUST AIR TO SPIRAL CONTINUOUSLY IN THE SAME DIRECTION IN THE MULTIPLE CHAMBERS OF THE EXTRACTOR. THUS SEPARATING THE GREASE PARTICLES FROM THE AIR FLOW CENTRIFUGALLY. HIGH EXTRACTION EFFICIENCY AND LOW PRESSURE LOSS OVER THE KSA REMAINS PRACTICALLY CONSTANT.

KSA REMOVAL TOOL



PERFORMANCE CRITERIA

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

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

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

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

MANUFACTURER MUST PROVIDE A WRITTEN GUARANTEE OF PERFORMANCE, ENSURING THE SPECIFYING ENGINEER THAT THE SYSTEM WILL PERFORM TO THE ENGINEER'S SATISFACTION WHEN INSTALLED AND BALANCED ACCORDING TO DESIGN AIR FLOWS AND RESULTS OF ASTM STANDARD F1704 TEST. (AS DETERMINED BY TAB PORTS AND PRESSURE VS. AIR FLOW CURVES.) CONSULTANT RESERVES THE RIGHT TO REJECT ANY SYSTEM WHICH, WHEN INSTALLED, DOES NOT PROVIDE CAPTURE AND CONTAINMENT AT THE THRESHOLD FLOW RATE DETERMINED IN ASTM F1704. REJECTED SYSTEM MUST BE REPLACED WITH SPECIFIED SYSTEM. WITH ALL REPLACEMENT COSTS PAID BY MANUFACTURER OF REJECTED SYSTEM.

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

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER
MAKE-UP AIR REQUIREMENTS FOR EQUIPMENT SUCH AS MODULATED ENERGY INPUTS OR EQUIPMENT WITH TEMPERATURE SETPOINTS MAY AFFECT EXHAUST AIR FLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

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

APPROVED BY: _____ DATE: _____

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

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

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

WEBSITE: www.halton.com

REV.	BY	DATE	REVISION DESCRIPTION
8	RTC	05.15.25	NO CHANGE
7	RTC	05.27.25	NO CHANGE
6	KB	03.06.25	REVISED APPLIANCES, CFMS
5	RTC	04.04.25	NO CHANGE
4	CV	04.23.25	MERGED PHASE D INTO PHASE C, CONNECTED ACCORDINGLY
3	RTC	04.30.25	REVISED ROOM LABEL
2	RTC	05.14.25	REVISED HOOD LABEL & ADDED ANSUL TANK

PROJECT: 24127 GOOD SAMARITAN MULTICARE - PHASE C
LOCATION:
DRAWN BY: RTC
DATE: 12.13.24
SCALE: NOT TO SCALE
CONSULTANT: INMAN

Halton

DRAWING TITLE: HOOD DETAILS

DRAWING No.: U24-977

REV. NO.: 9 SHEET NO.: 5 of 6

Perkins&Will
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#2300, Seattle,
WA 98101
t +12063816000
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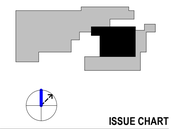
PROJECT MANAGER
TURNER & TOWNSEND
920 Fifth Avenue,
Seattle, WA, 98104

100% CD SET 6/30/2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital
MULTICARE

KEY PLAN



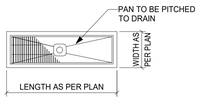
ISSUE CHART

MARK	ISSUE	DATE
Job Number	24127	

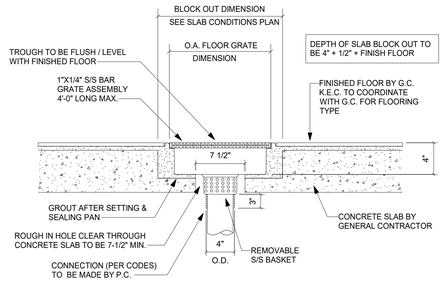
TITLE
PHASE (AREA - D) HOOD DETAILS 5 OF 6 HALTON DOCUMENTS

SHEET NUMBER
FS01-D.7

8/24/2025 4:11:58 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-D-R25.rvt

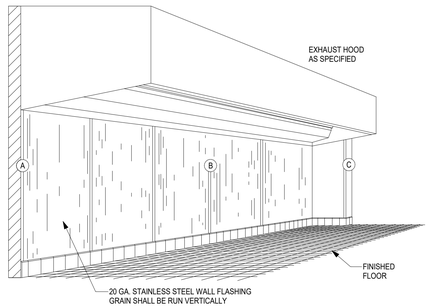


PLAN VIEW



NOTE: STAINLESS STEEL FLOOR TROUGH WITH PAN AND GRATE TO BE FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR (K.E.C.). ASSEMBLY TO BE INSTALLED BY THE GENERAL CONTRACTOR (G.C.) AND HOOKED UP BY THE PLUMBING CONTRACTOR (P.C.) IN ACCORDANCE WITH ALL LOCAL AND STATE CODES.

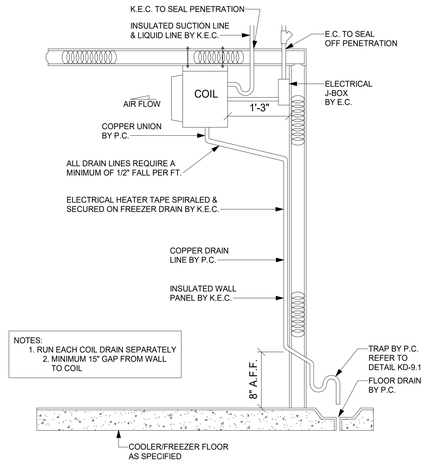
STANDARD FLOOR TROUGH BLOCK OUT DETAIL



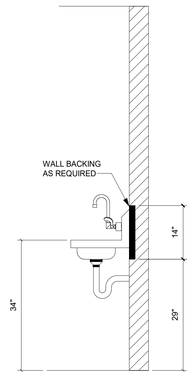
SECTION "A" SECTION "B" SECTION "C"

NOTE: SECURE FLASHING TO WALL WITH HEAT RESISTANT MASTIC

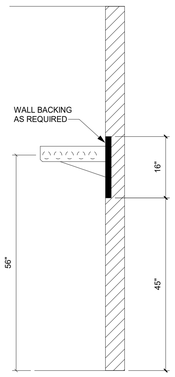
S/S WALL FLASHING DETAIL



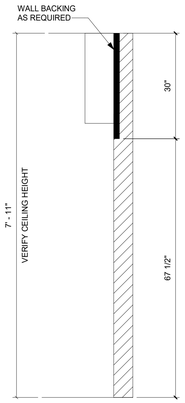
EVAPORATOR COIL INSTALLATION DETAIL



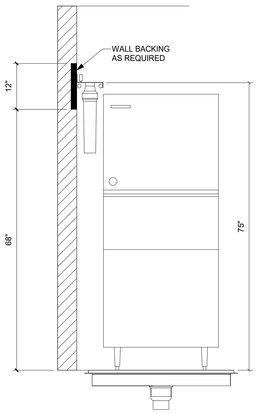
HAND SINK WALL BACKING DETAIL



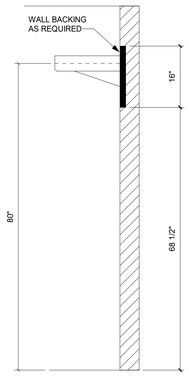
TUBULAR WALL SHELF - WALL BACKING DETAIL - ITEM #D29



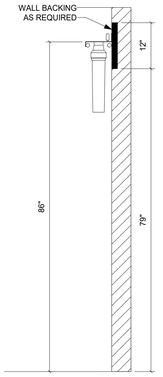
FIRE SUPPRESSION SYSTEM WALL BACKING DETAIL



WATER FILTER - ITEM #D64 WALL BACKING DETAIL



S/S WALL SHELF - WALL BACKING DETAIL - ITEM #D67



WATER FILTER - ITEM #D71 WALL BACKING DETAIL

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Puyallup,
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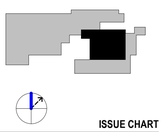
MULTICARE

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

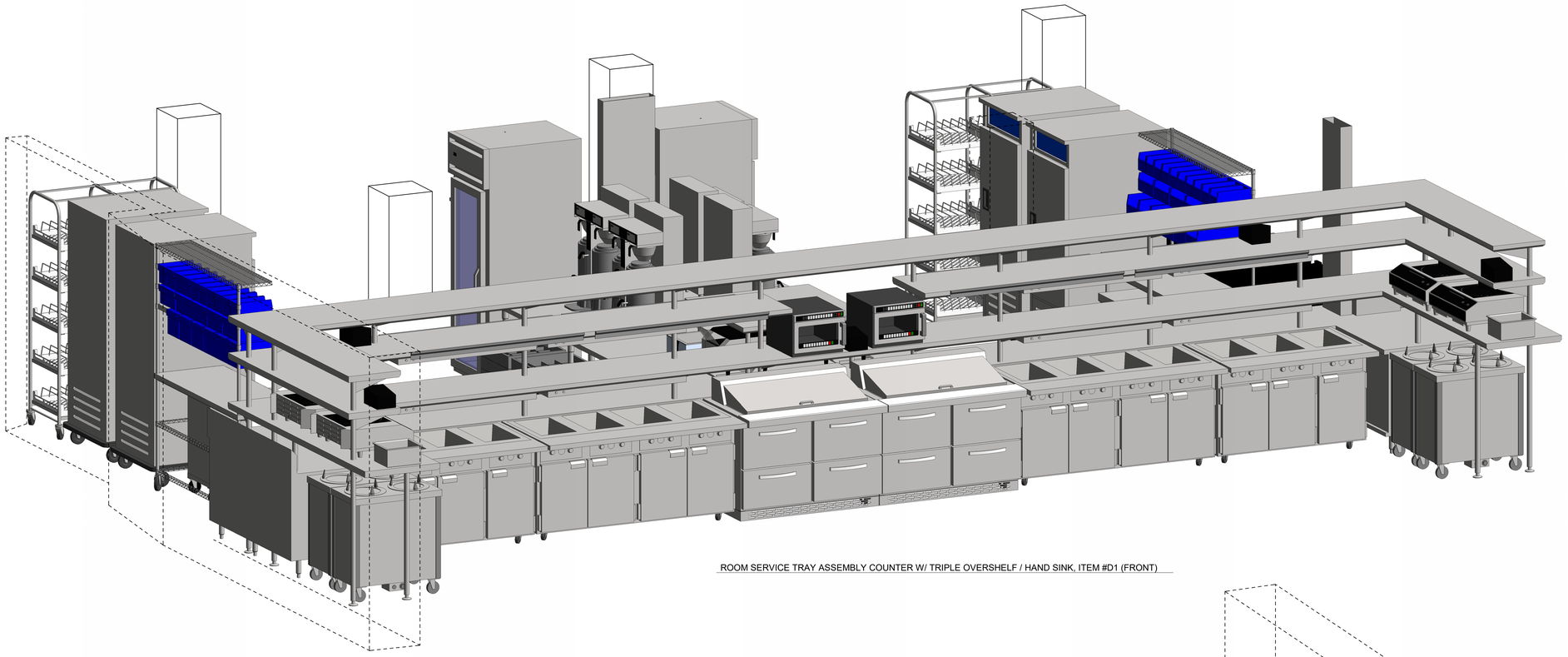
TITLE

PHASE 2 (AREA - D) DETAILS AND WALL BACKING DETAILS

SHEET NUMBER

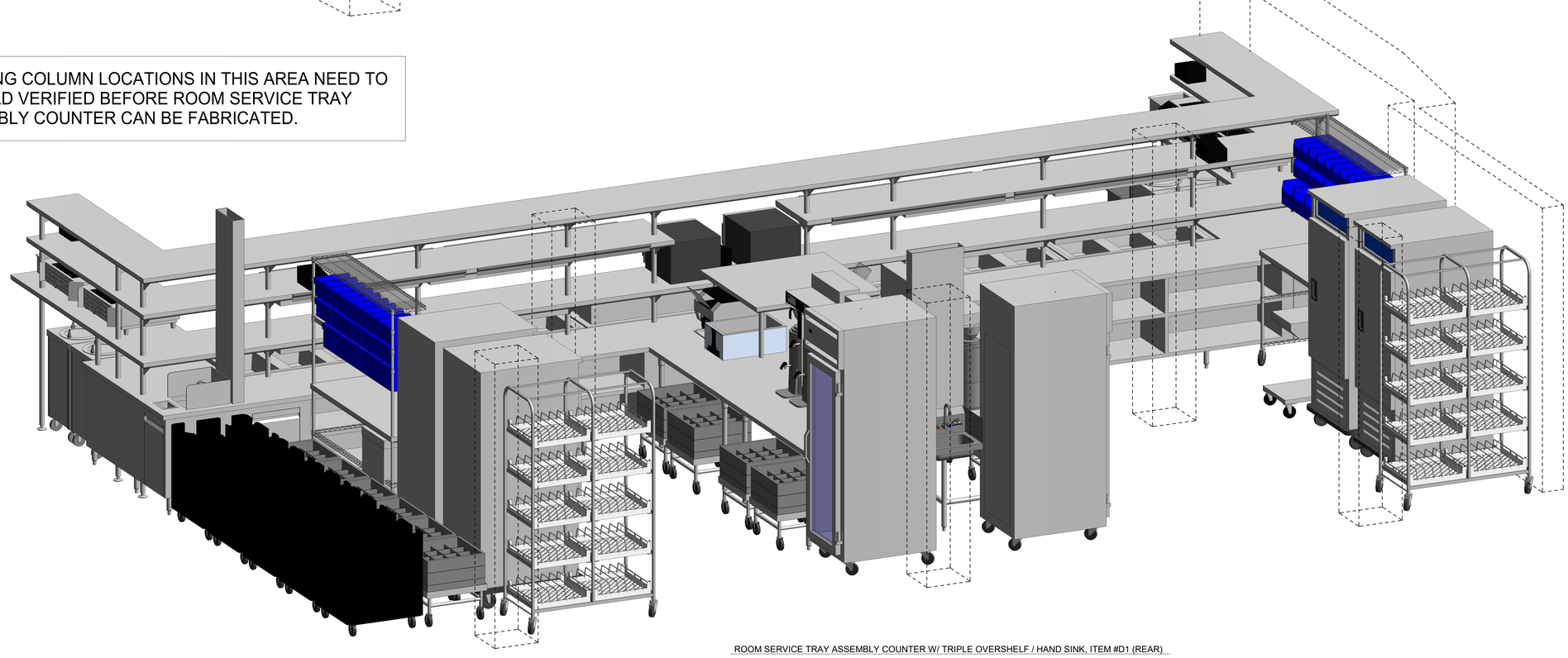
FS01-D.8

6/24/2025 4:12:00 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-D-R25.rvt



ROOM SERVICE TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF / HAND SINK, ITEM #D1 (FRONT)

EXISTING COLUMN LOCATIONS IN THIS AREA NEED TO BE FIELD VERIFIED BEFORE ROOM SERVICE TRAY ASSEMBLY COUNTER CAN BE FABRICATED.



ROOM SERVICE TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF / HAND SINK, ITEM #D1 (REAR)

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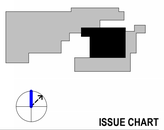
MULTICARE

100% CD SET 6/30/2025

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

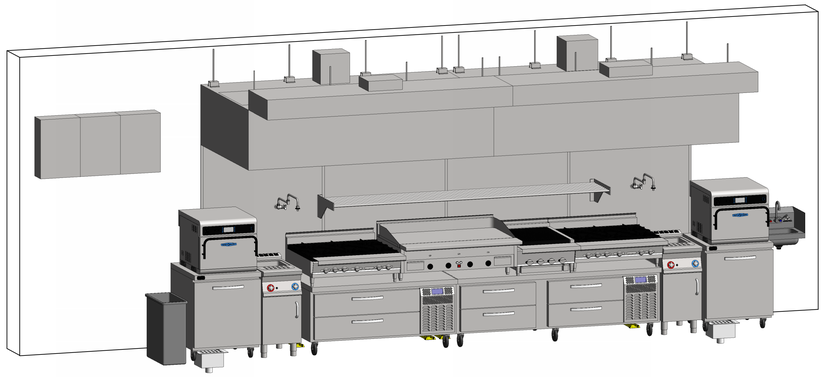
TITLE

PHASE 2 (AREA - D)
ELEVATION AND
ISOMETRIC VIEWS

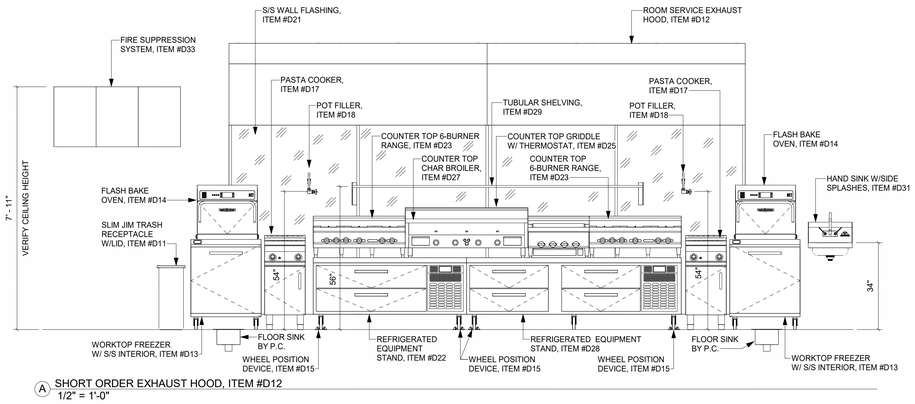
SHEET NUMBER

FS01-D.9

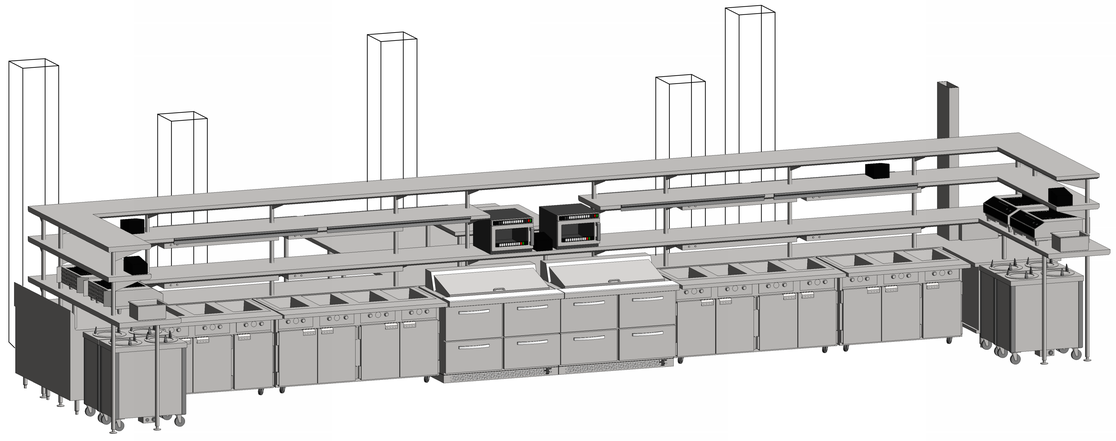
6/24/2025 4:14:36 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-D-R25.rvt



SHORT ORDER EXHAUST HOOD, ITEM #D12



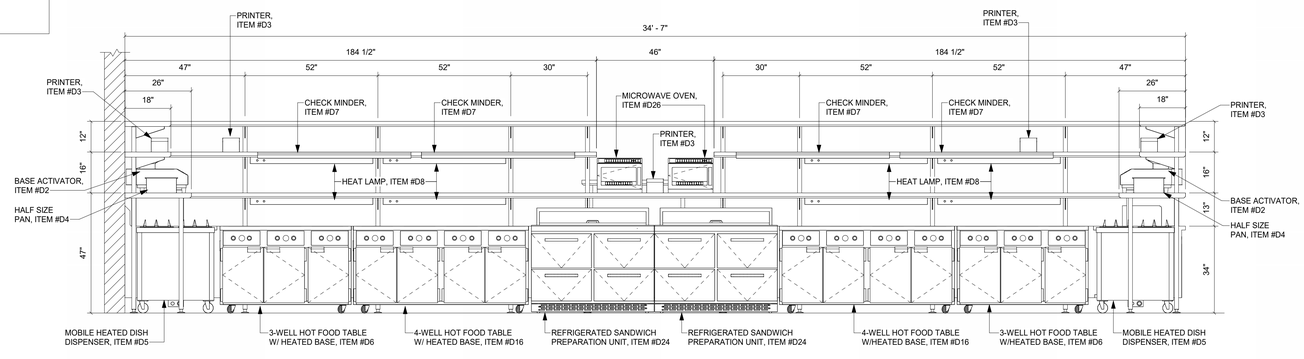
A SHORT ORDER EXHAUST HOOD, ITEM #D12
1/2" = 1'-0"



ROOM SERVICE TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF / HAND SINK, ITEM #D1 (FRONT.)

EXISTING COLUMN LOCATIONS IN THIS AREA NEED TO BE FIELD VERIFIED BEFORE ROOM SERVICE TRAY ASSEMBLY COUNTER CAN BE FABRICATED.

DIMENSIONS INDICATED ARE INTENDED FOR REFERENCE. FABRICATOR TO DEVELOP SHOP DRAWINGS AND DETERMINE FINAL DIMENSIONS FOR CONSTRUCTION.



B ROOM SERVICE TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF / HAND SINK, ITEM #D1 (FRONT.)
1/2" = 1'-0"

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Seattle, WA, 98104

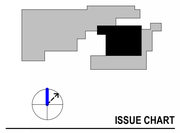
100% CD SET 6/30/2025

MultiCare
Good Samaritan
Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

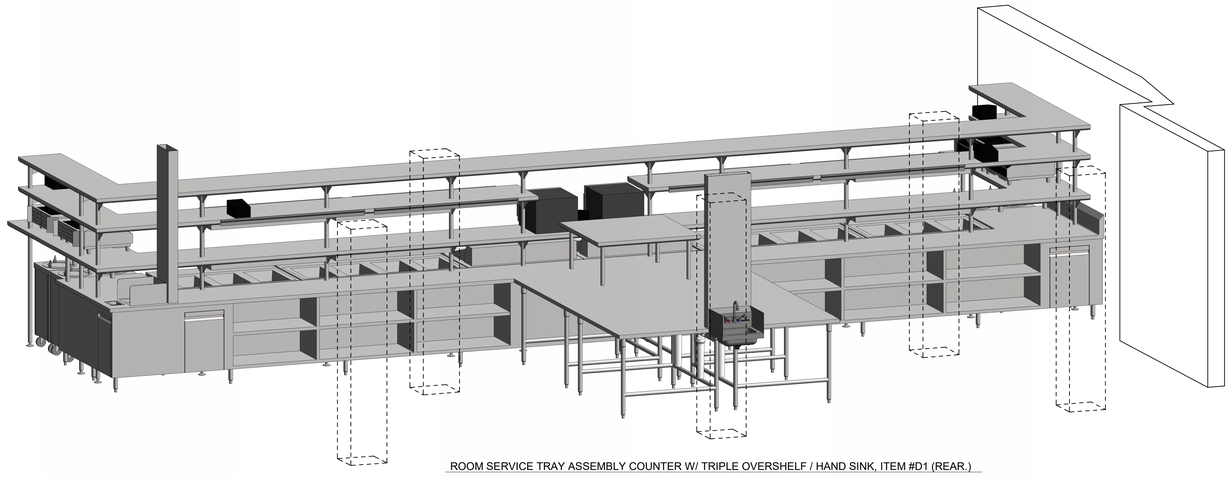
TITLE

PHASE 2 (AREA - D)
ELEVATION AND
ISOMETRIC VIEWS

SHEET NUMBER

FS01-D.10

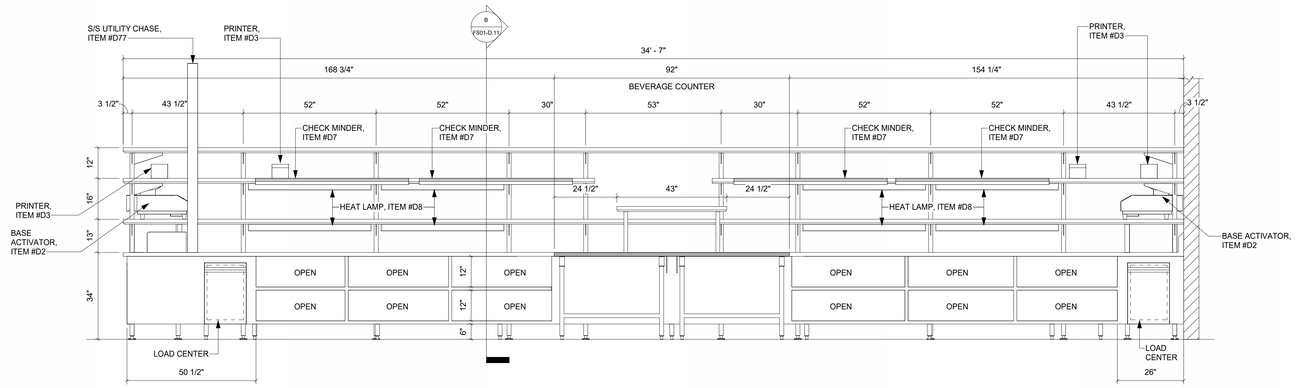
6/24/2025 4:15:16 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-D-R25.rvt



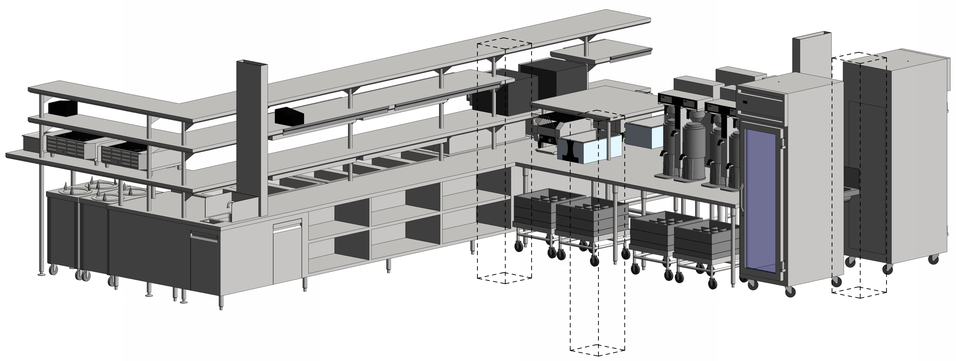
ROOM SERVICE TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF / HAND SINK, ITEM #D1 (REAR.)

DIMENSIONS INDICATED ARE INTENDED FOR REFERENCE. FABRICATOR TO DEVELOP SHOP DRAWINGS AND DETERMINE FINAL DIMENSIONS FOR CONSTRUCTION.

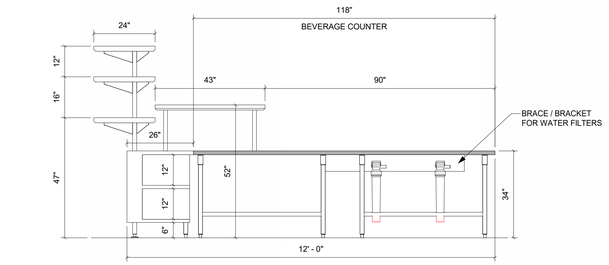
EXISTING COLUMN LOCATIONS IN THIS AREA NEED TO BE FIELD VERIFIED BEFORE ROOM SERVICE TRAY ASSEMBLY COUNTER CAN BE FABRICATED.



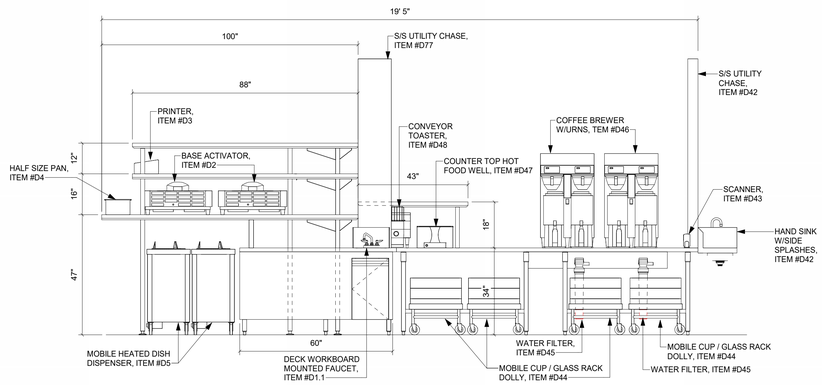
A ROOM SERVICE TRAY ASSEMBLY COUNTER W/ TRIPLE OVERSHELF / HAND SINK, ITEM #D1 (REAR.)
1/2" = 1'-0"



ROOM TRAY ASSEMBLY COUNTER, ITEM #D1 (SIDE VIEW)



B Section 1
1/2" = 1'-0"



C ROOM TRAY ASSEMBLY COUNTER, ITEM #D1 (SIDE VIEW)
1/2" = 1'-0"

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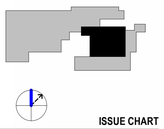
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

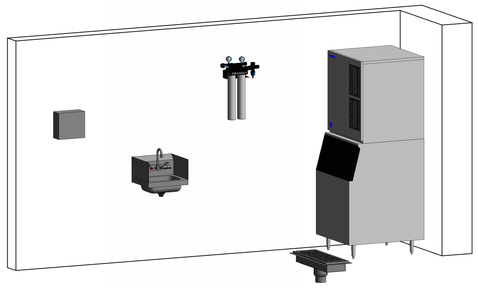
TITLE

PHASE 2 (AREA - D)
ELEVATION AND
ISOMETRIC VIEWS

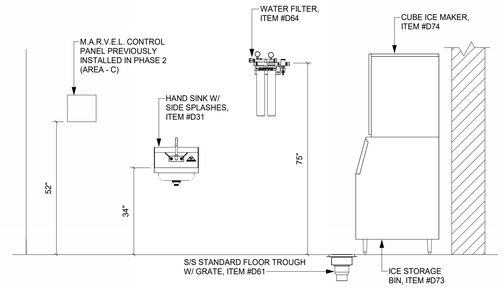
SHEET NUMBER

FS01-D.11

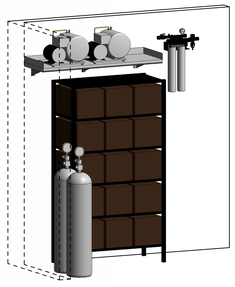
6/24/2025 4:15:53 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-D-R25.rvt



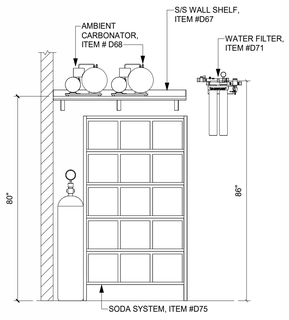
CUBE ICE MAKER, ITEM #D74



A CUBE ICE MAKER, ITEM #D74
1/2" = 1'-0"



SODA SYSTEM, ITEM #D75



B SODA SYSTEM, ITEM #D75
1/2" = 1'-0"

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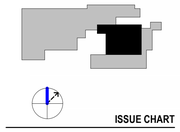
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

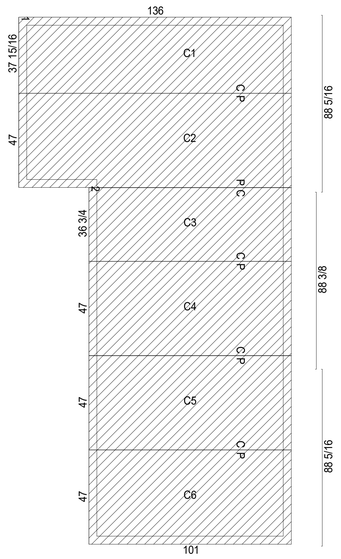
TITLE

PHASE 2 (AREA - D)
ELEVATION AND
ISOMETRIC VIEWS

SHEET NUMBER

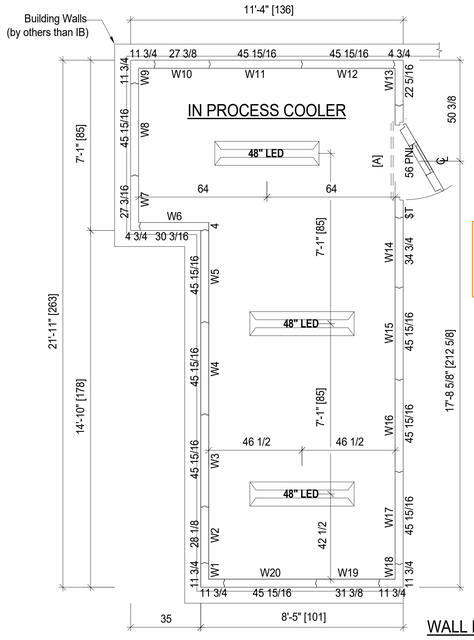
FS01-D.12

6/24/2025 4:16:30 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-D-R25.rvt



CEILING PANELS

IN-PROCESS COOLER
ITEM #D55

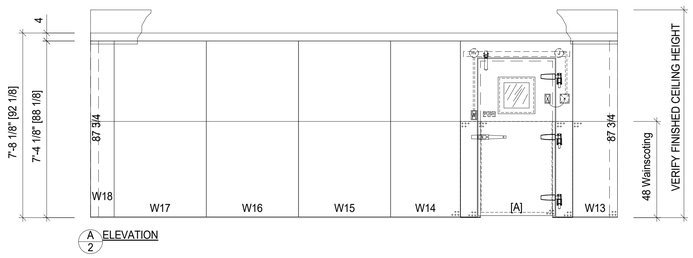


WALL PANELS

- Stucco galvalume
- .040 stucco white aluminum
- .040 stucco aluminum

NOTES-LIGHT FIXTURE LAYOUT
Fixture layout provided as REFERENCE only. Installation is to be determined by others than Imperial Brown.

Acknowledgement requested.
Cooler construction:
Provide design professional seals for construction drawings for installation and inspection.
Review submittal may be required, at inspectors discretion.



A/2 ELEVATION

CONSTRUCTION LEGEND:
- 4" urethane (R-32)
- 4" high density urethane (R-32)

24-IB-11801-03
24-IB-11801.00.03-06
NOT FOR CONSTRUCTION
PRELIMINARY

INMAN
NASHVILLE, TN
MULTICARE GOOD SAMARITAN HOSPITAL
PUYALLUP, WA

IMPERIAL BROWN
198 SE 233rd Ave.
Gresham, OR 97030
Phone: 503-665-3539
Fax: 503-665-2939
www.imperial-brown.com

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DATE DRAWN:	6/24/2025
DATE PRINTED:	6/24/2025
BY:	Kyle Lewis
CHK'D BY:	

DRW#: 24-IB-11801-03
BOX: PLAN VIEW - CEILING PANLES AND ELEVATION

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 24127

TITLE

PHASE 2 (AREA - D)
IMPERIAL BROWN
COOLER DOCUMENT

SHEET NUMBER

FS01-D.13

6/24/2025 4:16:31 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/FOOD-Multicare-Kitchen-Phase-D-R25.rvt

DAMPER SCHEDULE & LEGEND

TAG	DESCRIPTION	NOTES
FD-1 (1 1/2)	1 1/2 HOUR DYNAMIC FIRE DAMPER: CURTAIN STYLE, VERTICAL OR HORIZONTAL, 165°F FUSABLE LINK, BLADE IN AIR STREAM. 4000 FPM UP TO 24X24 VERTICAL, 2000 FPM ALL OTHERS, UL555, GREENHECK DFD 150 TYPE A OR EQUAL.	
BDD (BD)	BACKDRAFT DAMPER: GREENHECK WD 330 (VERT) OR WD-100 (HORIZONTAL) OR EQUAL.	
	VOLUME DAMPER: SHOP FABRICATED, W/LOCKING QUADRANT.	
RD-1 (RD)	REMOTE OPERATED VOLUME DAMPER: 2000 FPM, UP TO 1" WG, 9V ACTUATOR TO RJ11 REMOTE CONNECTION, GREENHECK RBDR-50	
RD-2 (RD)	REMOTE OPERATED VOLUME DAMPER: 2000 FPM, UP TO 1" WG, 9V ACTUATOR TO RJ11 REMOTE CONNECTION, GREENHECK RBD-10	

TAG	DESCRIPTION	NOTES
SD (S)	SMOKE DAMPER. SEE MOTORIZED DAMPER SCHEDULE.	
MD (M)	MOTORIZED CONTROL DAMPER. SEE MOTORIZED DAMPER SCHEDULE.	
FSD-1 (1 1/2)	1 1/2 HOUR FIRE/SMOKE DAMPER. SEE MOTORIZED DAMPER SCHEDULE.	
FSD-2 (3)	3 HOUR RATED FIRE SMOKE DAMPER. SEE MOTORIZED DAMPER SCHEDULE.	

NOTES

MOTORIZED DAMPER SCHEDULE

UNIT NO.	MFR. & MODEL NO.	MOUNTING POSITION	FIRE RATING	LEAKAGE CLASS	ACTUATOR FAIL	ACTUATOR VOLT/PH	CONTROL TYPE	CONTROL BY	NOTES
SD-1	GREENHECK SMD-201	VERT	-	-	CLOSE	120V/1	2 POSITION	EC	1
SD-2	GREENHECK SMD-201	VERT	-	-	CLOSE	120V/1	2 POSITION	EC	1
SD-3	GREENHECK SMD-201	VERT	-	-	CLOSE	120V/1	2 POSITION	EC	1
NOT USED			-	-	-				-
SD-5	GREENHECK SMD-201	VERT	-	-	CLOSE	120V/1	2 POSITION	EC	1
SD-6	GREENHECK SMD-201	VERT	-	-	CLOSE	120V/1	2 POSITION	EC	1
SD-7	GREENHECK SMD-201	VERT	-	-	CLOSE	120V/1	2 POSITION	EC	1
SD-8	GREENHECK SMD-201	VERT	-	-	CLOSE	120V/1	2 POSITION	EC	1
MD-1	GREENHECK VCD-23	VERT	-	-	IN-PLACE	24V	2 POSITION	CC	2

NOTES:
1. LIFE-SAFETY MOTORIZED DAMPER
   - TWO POSITION WITH SPRING RETURN
   - OPEN WHEN BLDG IN FIRE ALARM MODE (BY FIRE ALARM CONTRACTOR), NORMALLY (SPRING) OPEN/POWERED CLOSED
   - 120V DAMPER ACTUATOR, MODEL BASED ON TORQUE REQ'S FOR DAMPER SIZE & LOCATED EXTERNAL TO DAMPER SLEEVE (UNO)
   - INTERLOCK WITH FIRE ALARM SYSTEM BY FIRE ALARM CONTRACTOR
   - PROVIDED WITH OPEN/CLOSED INDICATOR
   - EMERGENCY POWER REQUIRED.
   - UL 555S LISTED
2. MOTORIZED CONTROL DAMPER
   - 24V DAMPER ACTUATOR BY CONTROLS CONTRACTOR, LOCATED EXTERNAL TO DAMPER SLEEVE (UNO)

DIFFUSER/GRILLE SCHEDULE

SYMBOL	MANUFACTURER & MODEL NUMBER	SIZE	TYPE	NOTES
A SIZE CFM	TITUS MCD-3	AS NOTED	T-BAR MOUNT MODULAR CORE DIFFUSER	BORDER TYPE 3, WHITE FINISH
B SIZE CFM	TITUS MCD-1	AS NOTED	SURFACE MOUNT MOD CORE DIFFUSER	BORDER TYPE 1, WHITE FINISH
C SIZE CFM	TITUS 350RL	AS NOTED	SURFACE MOUNT RET/EXH GRILLE	BORDER TYPE 1, WHITE FINISH
D SIZE CFM	TITUS 50F	AS NOTED	T-BAR LAY-IN EGGCRATE (RETURN/EXH)	BORDER TYPE 3, WHITE FINISH
E SIZE CFM	HALTON KCD	AS NOTED	T-BAR MOUNT KITCHEN CEILING DIFFUSER	

DUCTWORK SCHEDULE

SERVICE / USAGE	LOCATION	MATERIAL	WORKING PRESSURE (IN. WC)	SMACNA PRESSURE CLASS (IN. WC)	SMACNA SEAL CLASS	NOTES
MEDIUM PRESSURE SUPPLY AIR	BETWEEN AHU AND TERMINAL UNITS	GALV. STEEL	2.5	4	A	1
LOW PRESSURE SUPPLY AIR	FROM TERMINAL/FAN COILS UNITS TO GRD'S	GALV. STEEL	1	2	B	1
FLEXIBLE DUCT	CONN TO GRD'S	PREINSUL. FLEX	0.5	RATED +6", -1"	NA	2
RETURN AIR	FROM GRD'S TO AHU & FCU'S	GALV. STEEL	1	2	B	1
TRANSFER AIR	FROM GRD TO GRD	GALV. STEEL	0.05	1	B	1
GENERAL EXHAUST	FROM GRD TO FAN AND AMBIENT	GALV. STEEL	-1	-2	B	1
GREASE EXHAUST	FROM HOOD TO FAN	16 GA WELDED STL	-2	-4	A	4,5
DISHWASHER & POTWASH EXHAUST	FROM HOOD TO FAN	STAINLESS STEEL	-1	-2	A	5,6

DUCTWORK INSULATION SCHEDULE

SERVICE	LOCATION	INSULATION TYPE	THICKNESS	R-VALUE	NOTES
OUTDOOR AIR ≥ 2800 CFM	CONDITIONED SPACE AND UPSTREAM OF AUTOMATIC SHUTOFF DAMPER	WRAP	6"	R-16	9
OUTDOOR AIR ≥ 2800 CFM	CONDITIONED SPACE AND DOWNSTREAM OF AUTOMATIC SHUTOFF DAMPER	WRAP	3"	R-8	9
OUTDOOR AIR < 2800 CFM	CONDITIONED SPACE	WRAP	3"	R-7	9
SUPPLY OR RETURN AIR	OUTSIDE OF THE BUILDING	LINING	2"	R-8	10,11
SUPPLY OR RETURN AIR	UNCONDITIONED SPACE OUTSIDE OF THE CONDITIONED BUILDING ENVELOPE	LINING OR WRAP	2"	R-6	10
SUPPLY OR RETURN AIR	UNCONDITIONED SPACE AND CONVEYING AIR WITHIN 15 DEG F OF SPACE TEMPERATURE (I.E. SUPPLY OR RETURN AIR PLENUMS)	WRAP	1"	R-3.3	9
SUPPLY AIR	CONDITIONED SPACE AND CONVEYING AIR LESS THAN 55F OR GREATER THAN 105F	WRAP	1"	R-3.3	9
SUPPLY AIR	CONDITIONED SPACE AND CONVEYING AIR BETWEEN 55F AND 105F	NONE	NONE	NONE	
RETURN, RELIEF OR EXHAUST AIR	CONDITIONED SPACE, DOWNSTREAM OF ENERGY RECOVERY AND UPSTREAM OF AUTOMATIC SHUTOFF DAMPER	WRAP	3"	R-8	9
RETURN, RELIEF OR EXHAUST AIR	CONDITIONED SPACE, DOWNSTREAM OF AUTOMATIC SHUTOFF DAMPER	WRAP	6"	R-16	9
EXHAUST AIR	CONDITIONED SPACE, UPSTREAM OF ENERGY RECOVERY DEVICE OR AUTOMATIC SHUTOFF DAMPER	NONE	NONE	NONE	
EXHAUST AIR	UNCONDITIONED SPACE OUTSIDE OF THE CONDITIONED BUILDING ENVELOPE, UPSTREAM OF ENERGY RECOVERY DEVICE	LINING OR WRAP	2"	R-6	10
EXHAUST AIR	OUTSIDE OF THE BUILDING, UPSTREAM OF ENERGY RECOVERY DEVICE	LINING	2"	R-8	10,11

NOTES:
1. SHEET METAL GAUGES AND FITTINGS PER SMACNA. AND MACDONALD-MILLER DUCT CONSTRUCTION STANDARDS.
2. THERMAFLEX "GKM" OR EQUAL, WITH 12 FOOT MAXIMUM LENGTH.
3. INSTALL PER MFG. GUIDELINES AND INSTRUCTIONS.
4. UL 300 HOOD TO BE PROVIDED IN KITCHEN BY KITCHEN CONSULTANT. DUCTWORK SPRINKLERS NOT REQUIRED.
5. SLOPE AT 1/4" PER FOOT BACK TO SOURCE.
6. SEAMS TO BE CAULKED OR WELDED TO PREVENT CONDENSATION FROM LEAKING THROUGH.
7. INSULATE ONLY SINGLE WALL METALIC DUCT IN ACCESSIBLE LOCATIONS UP TO 7' AFF.
8. DUCT SYSTEMS GREATER THAN 3" WC SHALL BE LEAK TESTED IN ACCORDANCE WITH WSEC C403.10.2.3
9. WRAP INSULATION WEIGHT = 0.75 PCF
10. WRAP INSULATION WEIGHT = 1 PCF
11. INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE INCLUDING THAT DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL.

GENERAL NOTES:

- INSULATION THICKNESS SHOWN ABOVE IS EQUAL TO TOTAL MINIMUM REQUIRED R-VALUE. ALTERNATE INSULATION WITH EQUAL R-VALUE IS ALLOWED.

- All CONCEALED DUCTWORK TO BE PER MMFS EXPOSURE 0 (SEALANT, LABELS AND OTHER ITEMS VISIBLE ON OUTSIDE OF DUCTWORK. MAY HAVE SCRATCHES AND MINOR DENTS).
- All INTERIOR EXPOSED DUCTWORK WITHIN OCCUPIED AREAS TO BE PER MMFS EXPOSURE 1 (NO VISIBLE SEALANT, LABELS, DENTS OR WRITING. EXTERIOR WELDS CLEANED AND PAINTED).

MECHANICAL GENERAL ABBREVIATIONS

ABBR	FULL NAME	ABBR	FULL NAME	ABBR	FULL NAME
AC	AIR CONDITIONING UNIT	EWT	ENTERING WATER TEMPERATURE	NO	NORMALLY OPEN
AFF	ABOVE FINISHED FLOOR	FCU	FAN COIL UNIT	NOM	NOMINAL
AHU	AIR HANDLING UNIT	FD	FIRE DAMPER	NTS	NOT TO SCALE
AL	ALUMINUM	FLA	FULL LOAD AMPS	OBD	OPPOSED BLADE DAMPER
BAS	BUILDING AUTOMATION SYSTEM	FOB	FLAT ON BOTTOM	OD	OUTSIDE DIMENSION
BDD	BACK DRAFT DAMPER	FOT	FLAT ON TOP	POC	POINT OF CONNECTION
BI	BLACK IRON	FSD	FIRE SMOKE DAMPER	PRV	PRESSURE REDUCING VALVE
BOD	BOTTOM OF DUCT	GALV	GALVANIZED	PVC	POLYVINYL CHLORIDE
BOD	BOTTOM OF DUCT	GALV	GALVANIZED	PVC	POLYVINYL CHLORIDE
BOTT	BOTTOM	GC	GENERAL CONTRACTOR	REQ'D	REQUIRED
BTU	BRITISH THERMAL UNITS	GENX	GENERATOR EXHAUST	RPBA	REDUCED PRESSURE BACKFLOW ASSY
BTUH	BRITISH THERMAL UNITS PER HOUR	GLVNL	GALVANNEAL	RTU	ROOFTOP UNIT
CAT1	CATEGORY ONE VENT	GPM	GALLONS PER MINUTE	SA	SUPPLY AIR
CAT4	CATEGORY FOUR VENT	GREASE	GREASE DUCT	SD	SMOKE DAMPER
CFM	CUBIC FEET PER MINUTE	GWB	GYPSUM WALL BOARD	SL	SOUND LINED
CPVC	CPVC MATERIAL	HP	HORSE POWER, HEAT PUMP	SM	SHEET METAL
DB	DUCTBOARD	HVAC	HEATING, VENTILATION AND AIR COND.	SP	STATIC PRESSURE
DDC	DIRECT DIGITAL CONTROLS	HX	HEAT EXCHANGER	SS	STAINLESS STEEL
DEMO	DEMOLISH	ID	INSIDE DIMENSION	SUSP	SUSPENDED
DP	DIFFERENTIAL PRESSURE	LAT	LEAVING AIR TEMPERATURE	T	THERMOSTAT
DPM	DIFFERENTIAL PRESSURE MONITOR	LBS	POUNDS	TOD	TOP OF DUCT
DIFF	DIFFUSER	LWT	LEAVING WATER TEMPERATURE	TV	TURNING VANES
DMPR	DAMPER	MAT	MIXED AIR TEMPERATURE	TYP	TYPICAL
DN	DOWN	MBH	ONE THOUSAND BTUH	UNO	UNLESS NOTED OTHERWISE
E	EXISTING	MCA	MINIMUM CIRCUIT AMPACITY	VAV	VARIABLE AIR VOLUME
EAT	ENTERING AIR TEMPERATURE	MD	MOTORIZED DAMPER	VD	VOLUME DAMPER
EC	EGGCRATE	MIN	MINIMUM	VFD	VARIABLE FREQUENCY DRIVE
EER	ENERGY EFFICIENCY RATIO	MFR	MANUFACTURER	W	DUCT INSULATION WRAP
EF	EXHAUST FAN	M-M	MACDONALD-MILLER	W/	WITH
ELEV	ELEVATION	NC	NORMALLY CLOSED	WELD	WELDED
ESP	EXTERNAL STATIC PRESSURE	NIC	NOT IN CONTRACT	Ø	VOLTAGE PHASE & DUCT DIAMETER

PIPING SYSTEM ABBREVIATIONS

ABBR	FULL NAME	ABBR	FULL NAME	ABBR	FULL NAME
C	CONDENSATE INDIRECT DRAIN	GLWR	GLYCOL WATER RETURN	NGV	NATURAL GAS VENT
CA	AIR COMPRESSED	GLWS	GLYCOL WATER SUPPLY	PA	AIR PNEUMATIC
CDWR	CONDENSER WATER RETURN	HWWR	HEATING HOT WATER RETURN	PC	CONDENSATE PUMPED
CDWS	CONDENSER WATER SUPPLY	HWWS	HEATING HOT WATER SUPPLY	PCHR	CHILLED WATER (PROCESS) RETURN
CHRV	CHILLER RELIEF VENT	HPC	STEAM CONDENSATE HIGH PRESS	PCHS	CHILLED WATER (PROCESS) SUPPLY
CHWR	CHILLED WATER RETURN	HPS	STEAM HIGH PRESS	RGAS	REFRIGERANT HOT GAS
CHWS	CHILLED WATER SUPPLY	HRR	HEAT RECOVERY RETURN	RLIQ	REFRIGERANT LIQUID
CLN STM	STEAM CLEAN	HRS	HEAT RECOVERY SUPPLY	RSUC	REFRIGERANT SUCTION
CLR	CLOSED LOOP WATER RETURN	LPC	STEAM CONDENSATE LOW PRESS	SCHR	CHILLED WATER (SECONDARY) RETURN
CLS	CLOSED LOOP WATER SUPPLY	LPG	LIQUID PROPANE	SCHS	CHILLED WATER (SECONDARY) SUPPLY
COMB-PVC	AIR COMBUSTION PVC	LPS	STEAM LOW PRESS	SCV	STEAM CONDENSATE VENT
CRVV	CRYO VENT	LTCR	CHILLED WATER (LOW TEMP) RETURN	SPC	STEAM CONDENSATE PUMPED
DTWS	DUAL TEMP WATER SUPPLY	LTCS	CHILLED WATER (LOW TEMP) SUPPLY	SV	STEAM VENT
DTWR	DUAL TEMP WATER RETURN	MPC	STEAM CONDENSATE MEDIUM PRESS	VAC	VACUUM
FOC	FUEL OIL SECONDARY CONTAINMENT	MPS	STEAM MEDIUM PRESS	VAC-E	VACUUM EXHAUST
FOF	FUEL OIL FILL	MUW	MAKE-UP WATER	VRFG	VRF HOT GAS
FOR	FUEL OIL RETURN	NG-CONDUIT	NATURAL GAS CONDUIT	VRFL	VRF HIGH PRESS LIQUID
FOS	FUEL OIL SUPPLY	NG-H	NATURAL GAS HIGH PRESS	VRFS	VRF LOW PRESS SUCTION
FOV	FUEL OIL VENTS	NG-L	NATURAL GAS LOW PRESS		
GENX	GENERATOR EXHAUST	NG-M	NATURAL GAS MEDIUM PRESS		

HVAC SYSTEM ABBREVIATIONS

ABBR	FULL NAME	ABBR	FULL NAME	ABBR	FULL NAME
COMB-GALV	COMBUSTION AIR	EA AL	EXHAUST ALUMINUM	OA	OUTSIDE AIR
SA	SUPPLY AIR LP	EA SS	EXHAUST SS 304	OA-KOOL	OUTSIDE AIR KOOLDUCT
SA-KOOL	SUPPLY AIR LP KOOLDUCT	EA AL WELD	EXHAUST ALUMINUM WELDED	RLF	RELIEF AIR
SA AL	SUPPLY AIR LP ALUMINUM	EA GALV WELD	EXHAUST GALV WELDED	RA	RETURN AIR
SA SS	SUPPLY AIR LP SS 304 2B	EA GLVNL WELD	EXHAUST GALVANNEAL WELDED	DB	DUCTBOARD
SA AL WELD	SUPPLY AIR LP ALUMINUM WELDED	EA SS WELD	EXHAUST SS 304 WELDED	FLU-CAT1	FLUE VENT - CATEGORY 1
SA GALV WELD	SUPPLY AIR MP GALV WELDED	EA BI GREASE	EXHAUST GREASE BLACK IRON WELD	FLU-CAT4	FLUE VENT - CATEGORY 4
SA GLVNL WELD	SUPPLY AIR MP GALVANNEAL WELD	EA GALV GREASE	EXHAUST GREASE GALV WELDED	FLU-CPVC	FLUE VENT - CPVC MATERIAL
SA SS WELD	WELDED SUPPLY AIR LP SS 304 2B	EA GALV SS GREASE	EXHAUST GREASE SS 304 WELDED	FLU-SS	FLUE VENT - SHOP BUILT SS 304
EA	EXHAUST AIR	MUA	MAKE-UP AIR	FLU-GALV	FLUE VENT - SHOP BUILT GALV

PIPING SYMBOL LEGEND

SYMBOL	FULL NAME	ABBR	SYMBOL	FULL NAME	ABBR
	VALVE TWO-WAY CONTROL	2WAY	BTU	METER BTU	BTU MTR
	VALVE THREE-WAY CONTROL	3WAY	M	SUB-METER WATER FLOW	MTR
AF	VALVE AUTOMATIC FLOW CONTROL	AF	T	PRESSURE / TEMPERATURE PORT	P&T
	VALVE BALANCING	BALV	DP	SENSOR PRESSURE DIFFERENTIAL	DP
	VALVE BALANCING AUTOMATIC	ABALV		STRAINER	STRN
	VALVE BALL - FULL PORTED	BV		SUCTION DIFFUSER	SUC DIFF
	VALVE BALL - W/ 3/4" HOSE ADAPTOR	BV W/ HA		UNION	UNION
	VALVE BUTTERFLY	BFV		HOSE BIBB	HB
	VALVE BUTTERFLY - W/ MEMORY STOP	BFVM		PIPE BREAK - PIG TAIL	
	VALVE CHECK	CV		POINT OF CONNECTION	POC
	VALVE CIRCUIT SETTER	CS		CONCENTRIC REDUCER	CR
	VALVE GAS COCK	GC		ECCENTRIC REDUCER	ER
	VALVE GATE	GV	6" CHWS	PIPE - EXISTING	
	VALVE GLOBE	GLV	6" CHWS	PIPE - DEMO	
	VALVE PRESSURE REDUCING	PRV	6" CHWS	PIPE - NEW	
	VALVE PRESSURE RELIEF	RV	6" CHWS	PIPE - FUTURE	
	VALVE SOLENOID	SV	6" CHWS	PIPE - SIZE & ABBREVIATION	
	AUTOMATIC AIR VENT	AV	6" CHWS-W	PIPE - SIZE & ABBREVIATION WITH INSULATION	
	MANUAL AIR VENT	MAV		THERMAL EXPANSION DEVICE	EXP
	WATER HAMMER ARRESTOR	WHA		FLEXIBLE CONNECTION	
	DOUBLE CHECK BACKFLOW PREVENTER	DCBP		FLEXIBLE PIPE	
	REDUCED PRESS. BACKFLOW PREVENTER	RPBP		PIPE - HEAT TRACE	
	BULB WELL	BW		PUMP	
	FLOW DIRECTION ARROW			AIR SEPARATOR	AIR SEP
P	PRESSURE INDICATOR	PRESS		CHEMICAL POT FEEDER	CPOT
S	SENSOR	SNSR		HEAT EXCHANGER	HTX
T	TEMPERATURE INDICATOR	THERM		EXPANSION TANK	ET

HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
14x12 SA	BARE RECTANGULAR SHEETMETAL		RECTANGULAR SIDE-WALL GRILLE WITH / WITHOUT OBD
14x12 SA-SL	SOUNDLINE SHEETMETAL (GENERAL NOTES)		SUPPLY DUCT UP/DOWN
14x12 SA-W	SHEETMETAL W/ INSULATION (GENERAL NOTES)		EXHAUST DUCT UP/DOWN
12ø SA	BARE ROUND SHEETMETAL		RETURN DUCT UP/DOWN
12ø SA-W	ROUND SHEETMETAL W/ INSULATION (GENERAL NOTES)		SUPPLY AIR TERMINAL RECTANGULAR AND SQUARE
14x12ø SA	OVAL SHEETMETAL W/ INSULATION (GENERAL NOTES)		RETURN AIR TERMINAL RECTANGULAR AND SQUARE
14x12ø SA-W	EXAMPLE OF EXISTING		EXHAUST AIR TERMINAL RECTANGULAR AND SQUARE
14x12 SA	EXAMPLE OF EXISTING		SUPPLY AIR SLOT DIFFUSER
	EXAMPLE OF DEMO		RETURN AIR SLOT DIFFUSER
14x12 SA	EXAMPLE OF NEW		EXHAUST AIR SLOT DIFFUSER
14x12 SA	EXAMPLE OF FUTURE (NIC)		POINT OF CONNECTION
14x12 SA-Q	EXPOSED QUALITY SHEETMETAL		CENTER LINE
14x12 SA-C	CLEANROOM QUALITY DUCTWORK	T	THERMOSTAT
14x12 SA-DB	DUCTBOARD (1" FIBERGLASS)	CO	CARBON MONOXIDE SENSOR
	CONTINUATION OF ROUND DUCT	NO2	NITROGEN DIOXIDE SENSOR
	CONTINUATION OF RECTANGULAR DUCT	H	HUMIDITY SENSOR
	AIR FLOW IN SYMBOL	$	OTHER SENSOR
	AIR FLOW OUT SYMBOL	SD	SMOKE DETECTOR
AHU-001	MECHANICAL EQUIPMENT TAG	$	ELECTRICAL SWITCH
1	KEYED NOTE		MITERED ELBOW WITH TURNING VANES
	ACCESS DOORS	- -	DOUBLE NEGATIVE PRESSSURE
	RATED ENCLOSURE	+ +	DOUBLE POSITIVE PRESSSURE
16ø 16ø	FLEX DUCT	NEUT	NEUTRAL PRESSSURE
24ø	EQUIPMENT FLEX ROUND CONNECTOR	-	SINGLE NEGATIVE PRESSSURE
24x24	EQUIPMENT FLEX RECTANGULAR CONNECTOR	+	SINGLE POSITIVE PRESSSURE
	VOLUME DAMPER / REMOTE DAMPER	DPM	DIFFERENTIAL PRESSURE MONITOR
	RADIAL AIR TERMINAL		DPM SENSOR SYMBOL
	T-BAR LAY-IN METAL EGGCRATE (RETURN/EXH)		ROOM AIRFLOW ARROW

HVAC GENERAL NOTES - 2021 WSEC

1. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET WHICH MAY BE REQUIRED. THE HVAC CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
2. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE 2021 EDITIONS OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE 2021 WSEC, AND LOCAL CODES AND ORDINANCES.
3. ALL DUCT SIZE ANNOTATIONS REPRESENT ACTUAL OUTSIDE DIMENSIONS OF THE SHEET METAL (UNO). IF APPLICABLE, INTERIOR INSULATION WILL NEED TO BE ACOUNTED FOR WHEN DETERMINING ACTUAL DUCT FREE AREA. SEE DUCTWORK INSULATION SCHEDULE FOR ADDITIONAL SPACE REQUIRED FOR EXTERIOR (WRAP) INSULATION.
4. DUCT CONSTRUCTION AND HANGING SHALL COMPLY WITH CHAPTER 6 OF THE 2021 IMC AND WITH CURRENT SMACNA STANDARDS. EARTHQUAKE BRACE ALL DUCTS 28" DIA AND LARGER WHICH ARE SUSPENDED MORE THAN 12" BELOW STRUCTURAL SYSTEM.
5. JOINTS OF MEDIUM AND HIGH VELOCITY DUCT SYSTEMS SHALL BE SEALED WITH GASKETS OR LISTED MASTIC TYPE DUCT SEALANT.
6. DUCTS SHALL BE INSULATED AS INDICATED ON PLANS, PER 2021 WASHINGTON STATE ENERGY CODE, COMMERCIAL PROVISIONS. SEE DUCTWORK INSULATION SCHEDULE.

   - ACOUSTICAL SOUND LINING, WHERE INDICATED, SHALL BE 1" FIBER-FREE DUCT LINING.
7. FLEX DUCTS SHALL CONSIST OF A REINFORCED VAPOR BARRIER, 1 1/2" FIBERGLASS INSULATION, AND NON-PERFORATED INTERIOR LINER WITH WIRE HELIX. DUCT SHALL BE A UL 181 LISTED CLASS 1 AIR DUCT. FLEX DUCTS SHALL ONLY BE USED WHERE SHOWN AND SHALL NOT EXCEED 12' IN LENGTH UNLESS NOTED OTHERWISE.
8. PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH SECTION 1613 OF THE 2021 IBC.
9. PROVIDE FIRE DAMPERS, SMOKE DAMPERS AND FIRE/SMOKE DAMPERS WHERE INDICATED ON PLANS AND AS REQUIRED BY SECTION 717.5 OF THE 2021 IBC AND SECTION 607.5 OF THE 2021 IMC. PROVIDE CEILING FIRE DAMPERS WHERE INDICATED ON PLANS AND AS REQUIRED BY SECTION 717.6 OF THE 2021 IBC AND SECTION 607.6 OF THE 2021 IMC. INSTALL FIRE DAMPERS SMOKE DAMPERS AND FIRE/SMOKE DAMPERS IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS, THE TERMS OF THEIR LISTING, AND THE REQUIREMENTS OF THE CODE.
10. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
11. PROVIDE RETURN DUCT SMOKE DETECTOR AUTOMATIC SHUT DOWN OF ALL NEW HEATING, COOLING, OR VENTILATION EQUIPMENT MOVING IN EXCESS OF 2000 CFM IN ACCORDANCE WITH SECTION 606 OF THE 2021 IMC. POWER AND INTERLOCK WIRING WITH THE BUILDING FIRE ALARM SYSTEM IS BY THE ELECTRICAL CONTRACTOR. BAS TO MONITOR FIRE ALARM CONTROL PANEL AND SHUT DOWN ALL FAN TERMINAL UNITS DURING ANY BUILDING FIRE ALARM EVENT, IN ACCORDANCE WITH 2021 IMC 606.2.2.
12. HVAC EQUIPMENT, VALVES AND DAMPERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS. UNLESS SHOWN ON ARCHITECTURAL DRAWINGS, REQUIRED ACCESS PANELS SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. MINIMUM ACCESS DOOR SIZE FOR VALVES AND DAMPERS TO BE 18" X 18".
13. MOTORS STARTERS NOT LISTED AS BEING PROVIDED IN THE HVAC EQUIPMENT SCHEDULES ARE TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
14. WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION TO BE PROVIDED TO THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM, INCLUDING SIZES, AND THE TERMINAL AIR AND WATER DESIGN FLOW RATES.
15. OPERATING AND MAINTENANCE MANUALS TO BE PROVIDED TO THE BUILDING OWNER THAT INCLUDE: SUBMITTAL DATA, NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY, HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION AND A COMPLETE OPERATIONAL NARRATIVE FOR EACH SYSTEM.
16. COMMISSIONING IS REQUIRED ON THIS PROJECT IN ACCORD WITH 2021 WASHINGTON STATE ENERGY CODE (WSEC), COMMERCIAL PROVISIONS AND SECTION C408. SEE SCHEDULED COMMISSIONING AND BALANCING SCHEDULE FOR FURTHER DETAIL.
17. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER
18. DAMPERS USED FOR OUTDOOR AIR INTAKE, EXHAUST, OR RELIEF SHALL HAVE THE FOLLOWING MAXIMUM LEAKAGE RATES AT 1" W.G. (PER AMCA STANDARD 500D); MOTORIZED DAMPERS: 4 CFM/S.F. GRAVITY DAMPERS: 20 CFM/S.F. (40 CFM/S.F. FOR DAMPERS SMALLER THAN 24" IN EITHER DIMENSION) PER 2021 WSEC C403.7.8.3.
19. OUTSIDE AIR INTAKE, EXHAUST, AND RELIEF DAMPERS SERVING CONDITIONED SPACES MUST BE MOTORIZED (FAIL CLOSED) PER 2021 WSEC SECTION C403.7.8. EXCEPT AS ALLOWED BY WSEC.
20. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, EXCEPT AS NOTED IN SECTION 602.2.1 OF THE 2021 IMC.
21. ALL MECHANICAL WORK SHOWN ON DRAWINGS INTENDED TO BE INSTALLED SOLELY BY MACDONALD -MILLER FACILITY SOLUTIONS. MACDONALD-MILLER FACILITY SOLUTIONS SHALL NOT BE HELD ACCOUNTABLE FOR ANY DESIGN OR CONSTRUCTION DEFICIENCIES IF WORK IS PERFORMED BY AN OUTSIDE PARTY.

LEGAL DESCRIPTION

PARCEL NUMBER: 9810000015

LEGAL DESCRIPTION:

Section 34 Township 20 Range 04 Quarter 23 WOODS 1ST CANNOT BE SOLD OR SUBD WITHOUT 001-4 & 001-6 LOT 1 OF BLA 2010-06-15-5001 DESC AS BEG AT A PT 30 FT E & 151.05 FT N OF INTER OF 15TH AV SE & 3RD ST SE TH N 322.08 FT TH N 305.27 FT TH E 692.45 FT TH S 78 DEG 58 MIN 52 SEC E 0.44 FT TH S 49.97 FT TH E 40.98 FT TH S 43.29 FT TH N 41.04 FT TH S 181.78 FT TH W 30 FT TH S 196.6 FT TO BEG CURVE CONCAVE TO NW HAVING A RAD OF 19.5 FT & C/A OF 59 DEG 50 MIN 20 SEC & BEING SUBTENDED BY A CHORD WHICH BEARS S 56 DEG 53 MIN 06 SEC W 19.45 FT TH SWLY & WLY ALG SD CURVE 20.37 FT TO PT OF REVERSE CURV TH WLY & SWLY & SLY 90.9 FT CONCAVE TO SE HAVING A RAD OF 60.5 FT & C/A OF 86 DEG 05 MIN 15 SEC TH S 3.26 FT TH SLY, SWLY & WLY 14.92 FT ALG CURVE CONCAVE TO NW HAVING A RAD OF 9.5 FT & C/A OF 89 DEG 59 MIN 59 SEC TH W 107.24 FT TO BEG OF CURVE CONCAVE TO NW HAVING A RAD OF 55.98 FT & C/A OF 81 DEG 57 MIN 04 SEC & BEING SUBTENDED BY CHORD WHICH BEARS S 49 DEG 34 MIN 17 SEC W 73.42 FT TH SLY, SWLY & WLY ALG SD CURVE 80.07 FT TH W 6.43 FT TH S 131.8 FT TH SLY & SELY 14.27 FT ALG SD CURVE CONCAVE TO E HAVING A RAD OF 25 FT & C/A OF 32 DEG 42 MIN 11 SEC TH N 88 DEG 06 MIN 01 SEC W 77.46 FT TO BEG OF CURVE CONCAVE TO N HAVING A RAD OF 40 FT & A C/A OF 43 DEG 31 MIN 52 SEC & BEING SUBTENDED BY CHORD WHICH BEARS S 70 DEG 08 MIN 03 SEC W 29.66 FT TH SWLY & WLY ALG SD CURVE 30.39 FT TH N 88 DEG 06 MIN 01 SEC W 238.87 FT TO BEG OF A CURVE CONCAVE TO NE HAVING A RAD OF 63 FT & A C/A OF 65 DEG 47 MIN 29 SEC & BEING SUBTENDED BY CHORD WHICH BEARS N 48 DEG 11 MIN 19 SEC W 68.43 FT TH WLY, NWLY & NLY ALG SD CURVE 72.34 FT TH N 12 DEG 28 MIN 32 SEC W 81.31 FT TO POB E

ROOM CONDITIONING SCHEDULE

ROOM DATA					ASHRAE 170 REQUIREMENTS						DESIGN								
NAME	CODE SIMILAR	FLOOR AREA (SF)	HEIGHT (FT)	ROOM VOLUME (CUFT)	PRESSURE TO ADJACENT SPACE	MIN OUTSIDE ACH	MIN TOTAL ACH	100% EXHAUST	HUMIDITY (%RH)	ROOM TEMP (°F)	PRESSURE TO ADJACENT SPACE	OUTSIDE ACH	MIN OUTSIDE AIRFLOW (CFM)	TOTAL ACH	SUPPLY AIR (CFM)	RETURN AIR (CFM)	EXHAUST AIR (CFM)	HUMIDITY (%RH)	ROOM TEMP (°F)
PHASE 0 AREAS																			
TEMP LINEN STORAGE	CLEAN LINEN STORAGE	838	7.75	6495	POSITIVE	NR	2	NR	NR	72-78	POSITIVE	2.3	250	2.3	250	0	250	NR	72-78
TEMP DRY STORAGE	FOOD AND SUPPLY STORAGE	1380	7.75	10695	NR	NR	2	NR	NR	72-78	NR	2.1	370	2.1	370	0	370	NR	72-78
PHASE 1 AREAS																			
DRY STORAGE	FOOD AND SUPPLY STORAGE	976	7.75	7564	NR	NR	2	NR	NR	72-78	NR	4.8	600	4.8	600	0	600	NR	72-78
PREP AREA	FOOD PREPERATION AREAS	474	7.75	3674	NR	2	10	NR	NR	72-78	NR	18.3	1120	18.3	1120	0	1120	NR	72-78
COOK AREA RIGHT	FOOD PREPERATION AREAS	445	7.75	3449	NR	2	10	NR	NR	72-78	NR	27.5	1580	55.7	3160	0	3200	NR	72-78
COOK AREA LEFT	FOOD PREPERATION AREAS	850	7.75	6588	NR	2	10	NR	NR	72-78	NR	22.6	2480	46.5	4960	0	5100	NR	72-78
JANITOR CLOSET	ENVIRONMENTAL SERVICES	72	7.75	558	NEGATIVE	NR	10	YES	NR	NR	NEGATIVE	0.0	0	16.1	0	0	150	NR	NR
WAREWASH	WAREWASH	968	7.75	7657	NEGATIVE	NR	NR	YES	NR	NR	NEGATIVE	30.6	3900	31.7	3900	0	4045	NR	NR
TUBE FEEDING STORAGE	FOOD AND SUPPLY STORAGE	138	7.75	1070	NR	NR	2	NR	NR	72-78	NR	2.8	50	2.8	50	0	0	NR	72-78
EVS BREAKROOM	OFFICE BREAKROOM	1230	7.75	9533	NR	NR	NR	NR	NR	NR	NR	5.5	875	5.5	875	0	870	NR	NR
EVS SUPERVISOR OFFICE	OFFICE	141	7.75	1093	NR	NR	NR	NR	NR	NR	NR	7.7	140	7.7	140	0	140	NR	NR
EVS PRIVATE OFFICE	OFFICE	112	7.75	868	NR	NR	NR	NR	NR	NR	NR	5.2	75	5.2	75	0	75	NR	NR
DIETITIAN OFFICES	OFFICE	363	7.75	2813	NR	NR	NR	NR	NR	NR	NR	6.0	280	6.0	280	0	280	NR	NR
WORKROOM	OFFICE	220	7.75	1705	NR	NR	NR	NR	NR	NR	NR	3.5	100	8.8	100	0	250	NR	NR
NUTRITION MGR OFFICE	OFFICE	164	7.75	1271	NR	NR	NR	NR	NR	NR	NR	4.0	85	4.0	85	0	85	NR	NR
TOUCHDOWN 1111	OFFICE	85	7.75	659	NR	NR	NR	NR	NR	NR	NR	6.8	75	6.8	75	0	0	NR	NR
TOUCHDOWN 1112	OFFICE	85	7.75	659	NR	NR	NR	NR	NR	NR	NR	6.8	75	6.8	75	0	0	NR	NR
PHASE 2 AREAS																			
COOK AREA PODS 1 & 2	FOOD PREPERATION AREAS	966	7.75	7487	NR	2	10	NR	NR	72-78	NR	7.2	900	26.8	3060	0	3345	NR	72-78
COOK AREA PODS 3 & 4	FOOD PREPERATION AREAS	1390	7.75	10773	NR	2	10	NR	NR	72-78	NR	5.1	910	18.8	3130	0	3370	NR	72-78
BEVERAGE & HOLDING	FOOD PREPERATION AREAS	421	7.75	3263	NR	2	10	NR	NR	72-78	NR	2.6	140	9.7	525	0	0	NR	72-78
PRODUCTION MGR OFFICE	OFFICE	100	7.75	775	NR	NR	NR	NR	NR	NR	NR	1.5	20	5.8	75	0	0	NR	NR
CHEF OFFICE	OFFICE	120	7.75	930	NR	NR	NR	NR	NR	NR	NR	1.3	20	4.8	75	0	0	NR	NR

1. "NR" INDICATES NO REQUIREMENT.
2. DOH LICENSED HOSPITALS: ROOM AIRFLOW REQUIREMENTS ARE BASED ON ASHRAE 170-2021 AS ADOPTED BY THE 2022 FGI GUIDELINES.

2021 WASHINGTON STATE ENERGY CODE COMMISSIONING AND BALANCING SCHEDULE

COMMISSIONING IN COMPLIANCE WITH 2021 WASHINGTON STATE ENERGY CODE (WSEC) SECTION C408 SHALL BE REQUIRED FOR ALL NEW SYSTEMS OR MODIFIED PORTIONS OF SYSTEMS UNLESS THE SYSTEMS MEET ONE OR MORE OF THE FOLLOWING EXCEPTIONS:

EXCEPTION 1: INSTALLED TOTAL MECHANICAL EQUIPMENT THAT ARE NOT REQUIRED TO COMPLY WITH SECTION C403.3.5 WHERE THE CAPACITY IS LESS THAN 180,000 BTU/H (15 TONS) COOLING CAPACITY AND LESS THAN 240,000 BTU/H (20 TONS) HEATING CAPACITY AND ENERGY RECOVERY VENTILATION (ERV) EQUIPMENT IS LESS THAN 300 CFM CAPACITY.

EXCEPTION 2: SERVICE WATER HEATING SYSTEMS IN BUILDNGS WITH SERVICE WATER HEATING SYSTEMS CAPACITY LESS THAN 200,000 BTU/H AND THERE ARE NO POOLS OR PERMANENT SPAS, SOLAR THERMAL HEATING, RECIRCULATION PUMPS, AND HEAT PUMP WATER HEATERS (EXCEPT PACKAGED UNITS FOR RESIDENTIAL USE).

EXCEPTION 4: REFRIGERATION SYSTEMS LIMITED TO SELF CONTAINED UNITS.

THE COMMISSIONING PROFESSIONAL SHALL MEET ONE OF THESE MINIMUM REQUIREMENTS:

1) AN INDIVIDUAL WHO IS CERTIFIED BY AN ANSI/ISO/IEC 17024:2012 ACCREDITED ORGANIZATION TO LEAD, PLAN, COORDINATE AND MANAGE COMMISSIONING TEAMS AND IMPLEMENT THE COMMISSIONING PROCESS.

THE COMMISSIONING PROFESSIONAL SHALL PERFORM THE FOLLOWING TASKS:

1) DEVELOPMENT AND EXECUTION OF THE COMMISSIONING PLAN. INCLUDING ALL SUBSECTIONS OF WSEC SECTION C408.1.2.
2) REVIEW OF BUILDING DOCUMENTATION AND CLOSE OUT SUBMITTALS.
3) PREPAIRING THE FINAL COMMISSIONING REPORT IN ACCORDANCE WITH WSEC SECTION C408.1.3.

ALL EQUIPMENT/SYSTEMS LISTED IN DRAWING EQUIPMENT SCHEDULES SHALL BE COMMISSIONED UNLESS LISTED AS AN EXCEPTION WITHIN THIS SCHEDULE.

WHERE THE CERTIFIED COMMISSIONING PROFESSIONAL'S CONTRACT OR EMPLOYMENT IS OTHER THAN DIRECTLY WITH THE BUILDING OWNER, AN IN-HOUSE COMMISSIONING DISCLOSURE AND CONFLICT MANAGEMENT PLAN SHALL BE A PART OF THE COMMISSIONING PROCESS. A COPY SHALL BE INCLUDED IN THE COMMISSIONING PLAN. THIS PLAN SHALL DISCLOSE THE CERTIFIED COMMISSIONING PROFESSIONAL'S CONTRACTUAL RELATIONSHIP WITH OTHER TEAM MEMBERS AND PROVIDE A CONFLICT MANAGEMENT PLAN DEMONSTRATING THAT THE CERTIFIED COMMISSIONING PROFESSIONAL IS FREE TO IDENTIFY ANY ISSUES DISCOVERED AND REPORT DIRECTLY TO THE OWNER.

FUNCTIONAL PERFORMANCE TESTING SHALL BE CONDUCTED FOR MECHANICAL SYSTEMS IN WSEC SECTIONS C403; SERVICE WATER HEATING SYSTEMS IN WSEC SECTION C404; EQUIPMENT, APPLIANCES AND SYSTEMS INSTALLED TO COMPLY WITH WSEC SECTION C406 OR C407; ENERGY METERING IN WSEC SECTION C409; AND REFRIGERATION SYSTEMS IN WSEC SECTION C410. WRITTEN PROCEDURES WHICH CLEARLY DESCRIBE THE INDIVIDUAL SYSTEMATIC TEST PROCEDURES, THE EXPECTED SYSTEM RESPONSE OR ACCEPTANCE CRITERIA FOR EACH PROCEDURE, THE ACTUAL RESPONSE OR FINDINGS, AND ANY PERTINENT DISCUSSION SHALL BE FOLLOWED. THIS TESTING SHALL INCLUDE CONTROL SYSTEMS WHICH WILL BE TESTED TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED AND ADJUSTED TO OPERATE IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS. TESTING SHALL AFFIRM THE CONDITIONS REQUIRED WITHIN WSEC SECTIONS C408.2 THROUGH C408.7 UNDER SYSTEM TESTING.

FOR PROJECTS WITH SEVEN OR FEWER SIMILAR SYSTEMS, EACH SYSTEM SHALL BE TESTED. FOR PROJECTS WITH MORE THAN SEVEN SYSTEMS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF CONTROLS TYPE. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF CONTROL TYPES EXIST, NO FEWER THAN 20 PERCENT OF EACH COMBINATION SHALL BE TESTED UNLESS THE CODE OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED SYSTEM FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.

A COMMISSIONING REPORT SHALL BE COMPLETED AND CERTIFIED BY THE CERTIFIED COMMISSIONING PROFESSIONAL AND DELIVERED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT. THE REPORT SHALL BE ORGANIZED WITH MECHANICAL, SERVICE WATER HEATING, CONTROLLED RECEPTACLE AND LIGHTING CONTROL SYSTEMS, ENERGY METERING, AND REFRIGERATION FINDINGS IN SEPA-RATE SECTIONS TO ALLOW INDEPENDENT REVIEW. THE REPORT SHALL RECORD THE ACTIVITIES AND RESULTS OF THE COMMISSIONING PROCESS AND BE DEVELOPED FROM THE FINAL COMMISSIONING PLAN WITH ALL OF ITS ATTACHED APPENDICES. THE REPORT SHALL INCLUDE:

1) RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2) DISPOSITION OF DEFIIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
3) FUNCTIONAL PERFOMANCE TEST PROCEDURES USED DURING THE COMMSIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN REPEATABILITY.
4) COMMISIONING PLAN.
5) TESTING, ADJUSTING AND BALANCING REPORTS.

EXCEPTION: DEFERRED TESTS WICH CANNOT BE PERFORMED A THE TIME OF REPORT PREPARATION DUE TO CLIMATE CONDITIONS.

PRIOR TO THE FINAL MECHANICAL AND PLUMBING INSPECTIONS OR OBTAINING A CERTIFICATE OF OCCUPANCY, THE CERTIFIED COMMISSIONING PROFESSIONAL SHALL PROVIDE EVIDENCE OF BUILDING COMMISSIONING IN ACCORDANCE WITH WSEC SECTION C408.1.4.1.

THE CODE OFFICIAL SHALL BE PERMITTED TO REQUIRE THAT A COPY OF THE COMMISSIONING REPORT BE MADE AVAILABLE FOR REVIEW BY THE CODE OFFICIAL.

MECHANICAL EQUIPMENT AND CONTROLS SUBJECT TO WSEC SECTION C403 SHALL BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY SECTION C408.1. THE COMMISSIONING PROCESS SHALL MINIMALLY INCLUDE ALL ENERGY CODE REQUIREMENTS FOR WHICH THE CODE STATES THAT EQUIPMENT OR CONTROLS SHALL "BE CAPABLE OF" OR "CONFIGURED TO" PERFORM SPECIFIC FUNCTIONS.

HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS. AIR AND WATER FLOW RATES SHALL BE MEASURED AND ADJUSTED TO DELIVER FINAL FLOW RATES WITHIN THE TOLERANCES PROVIDED IN THE PROJECT SPECIFICATIONS. TEST AND BALANCE ACTIVITIES SHALL INCLUDE AIR SYSTEM AND HYDRONIC SYSTEM BALANCING.

EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICE SHALL BE EQUIPPED WITH MEANS FOR AIR BALANCING IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 OF THE INTERNATIONAL MECHANICAL CODE. DISCHARGE DAMPERS USED FOR AIR SYSTEM BALANCING ARE PROHIBITED ON CONSTANT VOLUME FANS AND VARIABLE VOLUME FANS WITH MOTORS 10 HP (18.6 KW) AND LARGER. AIR SYSTEMS SHALL BE BALANCED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES THEN, FOR FANS WITH SYSTEM POWER OF GREATER THAN 1 HP (0.74 KW), FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS.

EXCEPTION: FANS WITH FAN MOTORS OF 1 HP OR LESS.

INDIVIDUAL HYDRONIC HEATING AND COOLING COILS SHALL BE EQUIPPED WITH MEANS FOR BALANCING AND MEASURING FLOW. HYDRONIC SYSTEMS SHALL BE PROPORTIONATELY BALANCED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES, THEN THE PUMP IMPELLER SHALL BE TRIMMED OR PUMP SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS. EACH HYDRONIC SYSTEM SHALL HAVE EITHER THE CAPABILITY TO MEASURE PRESSURE ACROSS THE PUMP, OR TEST PORTS AT EACH SIDE OF EACH PUMP.

EXCEPTION: THE FOLLOWING EQUIPMENT IS NOT REQUIRED TO BE EQUIPPED WITH MEANS FOR BALANCING OR MEASURING FLOW:

1) PUMPS WITH PUMP MOTORS OF 5 HP (3.7 KW) OR LESS.
2) WHERE THROTTLING RESULTS IN NO GREATER THAN FIVE PERCENT OF THE NAMEPLATE HORSEPOWER DRAW ABOVE THAT REQUIRED IF THE IMPELLER WERE TRIMMED.

FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THE COMPONENTS, SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS ARE INSTALLED AND OPERATE IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS. WHERE FULL LOAD TESTING IS NOT POSSIBLE OR PRACTICAL PER BUILDING LOAD OR SYSTEM SET UP, FUNCTIONAL PERFORMANCE TESTING SHALL BE PERFORMED IN A MANOR THAT ALLOWS INDIVIDUAL EQUIPMENT TO SHOW FULL LOAD CAPABILITIES. EQUIPMENT SHALL BE TESTED TO SHOW INTENDED STAGING BETWEEN COMPONENTS. 100% FULL LOAD FROM ALL COMPONENTS SIMULTANEOUSLY WILL NOT BE REQUIRED. TESTING SHALL INCLUDE THE SEQUENCE OF OPERATION, AND BE CONDUCTED UNDER FULL LOAD, PART LOAD AND THE FOLLOWING CONDITIONS:

1) ALL MODES AS DESCRIBED IN THE SEQUENCE OF OPERATION.
2) REDUNDANT OR AUTOMATIC BACK-UP MODE.
3) PERFOMANCE OF ALARMS.
4) MODE OF OPERATION UPON LOSS OF POWER AND RESTORATION OF POWER.

SERVICE WATER HEATING EQUIPMENT AND CONTROLS SUBJECT TO WSEC SECTION C404 SHALL BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY WSEC SECTION C408.1. THE COMMISSIONING PROCESS SHALL MINIMALLY INCLUDE EQUIPMENT AND COMPONENTS INSTALLED TO MEET ALL ENERGY CODE REQUIREMENTS FOR DEVICES TO "START," "AUTOMATICALLY TURN OFF," "AUTOMATICALLY ADJUST," "LIMIT OPERATION," AND "LIMIT THE TEMPERATURE" AND "BE CONFIGURED TO."

FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THAT HEATERS, PIPING, DISTRIBUTION SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS ARE INSTALLED AND OPERATE IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS. TESTING SHALL INCLUDE THE SEQUENCE OF OPERATION, AND BE CONDUCTED UNDER AT LEAST 50 PERCENT WATER HEATING LOAD, PART-LOAD AND THE FOLLOWING CONDITIONS:

1) NORMAL OPERATION.
2) REDUNDANT OR AUTOMATIC BACK-UP MODE.
3) PERFOMANCE OF ALARMS.
4) MODE OF OPERATION UPON LOSS OF POWER AND RESTORATION OF POWER.

EQUIPMENT, COMPONENTS, CONTROLS OR CONFIGURATION SETTINGS FOR SYSTEMS WHICH ARE INCLUDED IN THE PROJECT TO COMPLY WITH WSEC SECTIONS C406 OR C407 SHALL BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY WSEC SECTION C408.1.

FUNCTIONAL PERFORMANCE TESTING FOR THESE APPLIANCES, EQUIPMENT, COMPONENTS, CONTROLS AND/OR CON-FIGURATION SETTINGS SHALL DEMONSTRATE OPERATION, FUNCTION AND MAINTENANCE SERVICEABILITY FOR EACH OF THE COMMISSIONED SYSTEMS IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

ENERGY METERING SYSTEMS REQUIRED BY SECTION C409 SHALL COMPLY WITH WSEC SECTION C408.6 AND BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY SECTION C408.1. THE COMMISSIONING PROCESS SHALL INCLUDE ALL ENERGY METERING EQUIPMENT AND CONTROLS REQUIRED BY WSEC SECTION C409.

FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THAT ENERGY SOURCE METERS, END-USE METERS, DATA ACQUISITION SYSTEMS, AND ENERGY DISPLAYS ARE INSTALLED AND OPERATE IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS. AT A MINIMUM, TESTING SHALL CONFIRM THAT:

1) THE METERING SYSTEM DEVICES AND COMPONENTS WORK PROPERLY UNDER LOW AND HIGH LOAD CONDITIONS.
2) THE METERED DATA IS DELIVERED IN A FORMAT THAT IS COMPATIBLE WITH THE DATA COLLECTION SYSTEM.
3) THE ENERGY DISPLAY IS IN A LOCATION WITH ACCESS TO BUILDING OPERATION AND MANAGEMENT PERSONNEL.
4) THE ENERGY DISPLAY MEETS CODE REQUIREMENTS REGARDING VIEWS REQUIRED IN SECTION C409.4.3. THE DISPLAY SHOWS ENERGY DATA IN IDENTICAL UNITS (E.G., KWH).

ALL INSTALLED REFRIGERATION SYSTEMS SUBJECT TO WSEC SECTION C410 SHALL BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY WSEC SECTION C408.1.

EXCEPTIONS: SELF-CONTAINED REFRIGERATION SYSTEMS ARE EXEMPT FROM THE COMMISSIONING PROCESS OR TOTAL INSTALLED CAPACITY FOR REFRIGERATION IS EQUAL TO OR LESS THAN 240 KBTU/H.

FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THAT COMPRESSORS, HEAT EXCHANGERS, PIPING, DISTRIBUTION SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS ARE INSTALLED AND OPERATE IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS. TESTING SHALL INCLUDE THE SEQUENCE OF OPERATION AND BE CONDUCTED UNDER FULL LOAD, PART LOAD AND THE FOLLOWING CONDITIONS:

1) NORMAL MODE.
2) REDUNDANT OR AUTOMATIC BACK-UP MODE.
3) PERFORMANCE OF ALARMS.
4) MODE OF OPERATION UPON LOSS OF POWER AND RESTORATION OF POWER.

MAKE-UP AIR UNIT SCHEDULE

UNIT NO.	MFR. & MODEL NO.	NOM TONS	HEAT MBH	CFM	ESP	FAN HP	OA CFM	COP	IEER	ISMRE	ELECTRICAL			WT LBS	NOTES
											VOLT/PH	AUX HTR KW	MCA		
MAU-1	GREENHECK / MSX-1115-H22	-	250	2050	1	5	2050	-	-	-	208/3	NONE	-	1500	EXISTING, 1
MAU-2	CAPTIVEAIRE CAS	31.0	260	8120	1.5	15	8120	3.5	17.8	4.8	208/3	150	543.5	5554	NEW, 2-7

NOTES:
1. EXISTING UNIT TO BE REUSED, BALANCE UNIT TO NEW SCHEDULED CFM. UNIT IS EQUIPPED WITH FAN VFD, HEATING HOT WATER COIL, MERV 8 FILTERS.
2. POWER WIRING AND DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
3. W/ SINGLE POINT POWER CONNECTION.
4. MCA LISTED IS TOTAL MCA .
5. FACTORY CONTROLS. INTEGRATION WITH BMS BY CONTROLS CONTRACTOR.
6. UNIT SUPPLIED WITH 2" MERV 8 PRE-FILTERS AND 2" MERV 13 FINAL FILTERS.
7. WEIGHT INCLUDE FACTORY ROOF CURB.

DUCT HEATING COIL SCHEDULE

UNIT NO.	AREA SERVED	MFG & MODEL NO.	AIRFLOW (CFM)	SIZE (W"xH")	EAT (°F)	LAT (°F)	AIR PD (IN WC)	GPM	WATER PD (FT HD)	EWT (F)	LWT (F)	NOTES
DHC-20	WAREWASH	RAE	3900	30x16	55	85	0.30	12.5	9.59	160	140	1,2
DHC-21	OFFICE	RAE	250	10x10	55	85	0.04	1.0	0.56	160	140	1,2
DHC-22	OFFICE	RAE	415	10x10	55	85	0.13	1.5	1.16	160	140	1,2
DHC-23	EVS BREAK	RAE	1090	20x10	55	85	0.23	3.5	6.87	160	140	1,2
DHC-24	STORAGE	RAE	600	12x12	55	85	0.14	2.0	2.99	160	140	1,2
DHC-25	HALLWAY	RAE	505	12x10	55	85	0.20	1.5	1.23	160	140	1,2

1. IF NO EXISTING 24V POWER IS AVAILABLE, ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR CONTROLS. 24V WIRING BY CONTROLS CONTRACTOR.
2. 2-WAY HYDRONIC CONTROL VALVE, WALL THERMOSTAT, SENSORS, AND INTEGRATION WITH THE BMS BY CONTROLS CONTRACTOR.

SERIES VAV BOX SCHEDULE

UNIT NO.	AREA SERVED	MFR. MODEL NO.	INLET SIZE	FAN CFM	VALVE CFM		HEATER					FAN		NOTES
					MAX	MIN	KW	DT	CFM	VOLT/PH	STGS	HP	SPD	
FTU-101	PHASE 2	NAILOR 3SSE SIZE 3	6	525	525	260	1	16	200	277/1	1	1/2	ECM	EXISTING, 4,5
FTU-102	PHASE 2	NAILOR 35SEST SIZE 6	14	2550	2550	1705	5.5	10	1705	208/3	1	2@3/4	ECM	EXISTING, 4,5
FTU-103	PHASE 2	NAILOR 3SSE SIZE 7	14	2620	2620	1705	5.5	10	1705	208/3	1	2@3/4	ECM	EXISTING, 4,5
FTU-106	PHASE 2	NAILOR 3SSE SIZE 1	6	150	150	75	1	21	150	208/1	2	1.4 FLA	ECM	NEW, 1,2,3,5

NOTES:
1. POWER WIRING AND DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR
2. SERIES FAN POWERED TERMINAL UNIT WITH HEAT -, SIZE AS LISTED, PRESSURE INDEPENDENT, FACTORY OPTIONS INCLUDE:
   - EXTENDED DAMPER 1/2" DIAM. SHAFT
   - FACTORY INSTALLED 1" THROW-AWAY FILTERS
   - CONTROLS BY OTHERS - FACTORY PROVIDE WIRING HARNESS WITH LOW VOLTAGE INTERLOCK CONDUCTORS EXTENDED FROM HIGH VOLTAGE CABINET TO LOW VOLTAGE CONTROLS CABINET.
   - 1" FIBER-FREE INSULATION
   - VARIABLE SPEED FAN CONTROL
   - 24V TRANSFORMER, 50 VA MIN RATING
   - HEAT STAGING & FAN CONTROL THROUGH FACTORY WIRED RELAYS
   - AUTO RESET 120°F HIGH LIMIT TSTAT
3. CONTROLS AND INTEGRATION WITH THE BMS BY THE CONTROLS CONTRACTOR.
4. EXISTING TERMINAL UNIT, REBALANCE TO SCHEDULED CFM VALUES.
5. PROVIDE FILTER BLANK-OFF PANELS FOR INDUCED AIR INLET(S). PANELS SHALL BE PERMANENTLY ATTACHED, CONSTRUCTED OF RIGID MATERIAL, AND COMPLETELY SEAL THE INLET(S).

HOOD SCHEDULE

UNIT NO.	CONNECTED EXH FAN	MFR. & MODEL NO.	DIMENSIONS (IN)	WEIGHT (LBS)	EA CFM	EA ESP (IN WC)	EA COLLAR SIZE (IN)	SA COLLAR SIZE (IN)	NOTES
B11L	KEF-2	HALTON KVE (TYPE 1)	142L X 68W X 24H	1120	1544	0.16	10x10	12x12	1,2,3,4
B11R	KEF-2	HALTON KVE (TYPE 1)	142L X 68W X 24H	1120	1656	0.21	12x12	16x12	1,2,3,4
B38L	KEF-2	HALTON KVE (TYPE 1)	142L X 68W X 24H	1091	2320	0.33	16x12	-	1,2,3,4
B38R	KEF-2	HALTON KVE (TYPE 1)	142L X 68W X 24H	1091	2781	0.45	12x10	-	1,2,3,4
B61	DEF-1	HALTON CH (TYPE 2)	57L X 56W X 24H	221	475	0.37	8x8	-	1,2
C4L	KEF-1	HALTON KVE (TYPE 1)	101L X 57W X 24H	715	1936	0.43	13x12	18x12	1,2,3,4
C4R	KEF-1	HALTON KVE (TYPE 1)	101L X 57W X 24H	715	1404	0.27	12x10	14x12	1,2,3,4
D12L	KEF-1	HALTON KVE (TYPE 1)	101L X 57W X 24H	715	1431	0.28	12x10	14x12	1,2,3,4
D12R	KEF-1	HALTON KVE (TYPE 1)	101L X 57W X 24H	715	1936	0.43	13x12	18x12	1,2,3,4

NOTES:
1. PROVIDED BY KITCHEN CONSULTANT. INSTALLED BY MECHANICAL CONTRACTOR.
2. 120V POWER FOR LIGHTING AND CONTROLS BY ELECTRICAL CONTRACTOR.
3. MFG'S FIRE SUPPRESSION SYSTEM, GREASE BAFFLES, HOOD WASHDOWN SYSTEM, AND MAKE-UP AIR PLENUM WHERE INDICATED BY "SA COLLAR" COLUMN.
4. MFG'S HOOD CONTROLS WITH DCKV SYSTEM. INTEGRATION WITH THE BMS BY CONTROLS CONTRACTOR.

EXHAUST FAN SCHEDULE

UNIT NO.	AREA SERVED	MFR. & MODEL NO.	TYPE	CFM	ESP	RPM	FLA	FEI	BHP	HP	VOLT/PH	BDD	WT LBS	NOTES
KEF-1	PHASE 2 TYPE I HOODS	GREENHECK / VECTOR-H-24-18	HIGH PLUME UPBLAST	7270	2	-	-	-	-	10	208/3	-	1095	EXISTING, 1
DEF	EXISTING DISHWASHER	EXISTING	-	-	-	-	-	-	-	-	-	-	-	DEMO
KEF-2	PHASE 1 TYPE I HOODS	CAPTIVEAIRE USBI36DD-RM	UTILITY SET	8300	2	715	24.5	1.16	4.5	7.5	208/3	-	1718	NEW, 2,5
DEF-1	PHASE 1 DISHWASHER AND POTWASH (TYPE II)	CAPTIVEAIRE DU85HFA	CENTRIFUGAL UPBLAST	1225	2	1630	11.6	1.34	0.77	1	115/1	Y	125	NEW, 2,3,5
EF-4	PHASE 2 KITCHEN AREA	CAPTIVEAIRE DU180HFA	CENTRIFUGAL UPBLAST	3000	2	1520	9.5	0.98	2.4	3	208/3	-	244	NEW, 2,4,5

NOTES:
1. EXISTING UNIT TO BE REUSED, BALANCE UNIT TO NEW SCHEDULED CFM.
2. POWER WIRING AND DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR. UNIT PROVIDED WITH FACTORY MOUNTED VFD.
3. UNIT TO REPLACE EXISTING DISHWASHER EXHAUST FAN DEF. EXISTING UNIT TO REMAIN OPERATIONAL UNTIL PHASE 1 IS COMPLETE AND NEW DEF-1 IS INSTALLED.
4. VARIABLE VOLUME FAN. PROVIDE WITH CLASS I MOTORIZED SHUTOFF DAMPER.
5. LISTED WEIGHTS INCLUDE FACTORY CURBS.

PIPING GENERAL NOTES

PIPING MATERIAL SCHEDULE

PIPING	SIZE	MATERIAL	JOINT
HEATING HOT WATER	1/2" - 2"	COPPER TYPE L	LEAD FREE SOLDER, PRESSED MECH JOINT
	2-1/2" - 10"	SCH 40 BLK STL, ASTM A53 A OR B	GROOVED, FLANGED, BUTT WELDED
INDIRECT DRAIN	1/2" - 2-1/2"	COPPER TYPE L	LEAD FREE SOLDER, PRESSED MECH JOINT
REFRIGERATION	1/8" - 4-1/8"	COPPER TUBE, ACR	BRAZED

PIPING INSULATION SCHEDULE

PIPING TYPE	PIPE SIZE	INSULATION TYPE	INSULATION THICKNESS	CONDUCTIVITY RANGE
HEATING HOT WATER (105°-140°F)	1/2" - 1-1/4"	FIBERGLASS, ELASTOMERIC FOAM	1"	0.21 - 0.28
	1-1/2"+	FIBERGLASS, ELASTOMERIC FOAM	1-1/2"	0.21 - 0.28
HEATING HOT WATER (141°-200°F)	1/2" - 1-1/4"	FIBERGLASS, ELASTOMERIC FOAM	1-1/2"	0.25 - 0.29
	1-1/2"+	FIBERGLASS, ELASTOMERIC FOAM	2"	0.25 - 0.29
COIL CONDENSATE PIPING	1/2" - 1-1/4"	FIBERGLASS, ELASTOMERIC FOAM	1/2"	0.21 - 0.27
	1-1/2" +	FIBERGLASS, ELASTOMERIC FOAM	1"	0.21 - 0.27
REFRIGERATION SUCTION	1/8" - 1"	ELASTOMERIC FOAM	1/2" (1" IF LOCATED OUTSIDE BLDG ENV.)	0.21 - 0.27
	1-1/8" +	ELASTOMERIC FOAM	1"	0.21 - 0.27
REFRIGERATION MIXED (DOWNSTREAM OF TXV)	1/8" - 7/8"	ELASTOMERIC

SHEET NOTES

1. DRAWINGS RELY ON ACCURACY OF EXISTING AS-BUILT INFORMATION AND MAY NOT SHOW FULL SCOPE OF DEMOLITION REQUIRED. FIELD TO CONTACT ENGINEER WITH ANY DISCREPANCIES.

2. COORDINATE ALL REQUIRED HVAC SHUTDOWNS WITH OWNER AND G.C.

1 / DM2.01C
1 / DM2.01A 1 / DF2.01A
1 / DM2.01A 1 / DF2.01A
1 / DM2.01C
1 / DM2.01A 1 / DF2.01A
1 / DM2.01B 1 / DF2.01B
1 / DM2.01C
1 / DM2.01B 1 / DF2.01B

ELEVATOR
EV1

EVS PRIVATE OFFICE
1-E-01

EVS SHARED SUPERVISOR OFFICE
1-E-02

EVS BREAKROOM
1-E-03

EVS KITCHENETTE
1-E-04

1 LEVEL 01 - SHEETMETAL - DEMO - PHASE 2
SCALE: 1/8" = 1'-0"

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07/08/2025

PHASE 2 PERMIT SET 07/10/2025

MultiCare
Good Samaritan
Hospital Kitchen
401 15th Ave SE,
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WA 98372

MultiCare
Good Samaritan Hospital

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
A	Revision #1	2025-07-11

Job Number 7725-4055

TITLE

LEVEL 01 OVERALL DEMOLITION FLOOR PLAN - MECHANICAL

SHEET NUMBER

DM2.01

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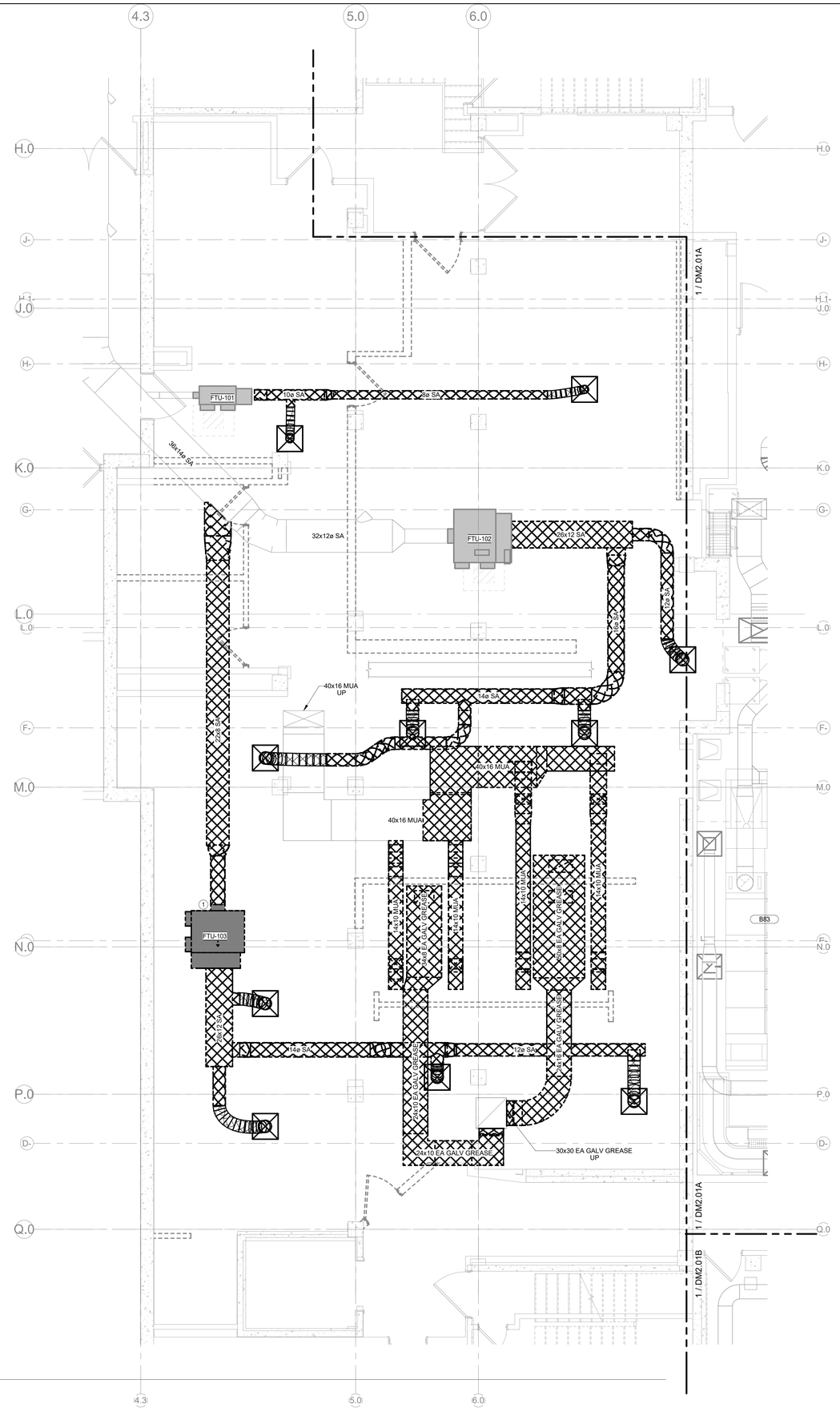

1 LEVEL 01 - SHEETMETAL - DEMO - AREA C

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

SHEET NOTES

1. DRAWINGS RELY ON ACCURACY OF EXISTING AS-BUILT INFORMATION AND MAY NOT SHOW FULL SCOPE OF DEMOLITION REQUIRED. FIELD TO CONTACT ENGINEER WITH ANY DISCREPANCIES.
2. COORDINATE ALL REQUIRED HVAC SHUTDOWNS WITH OWNER AND G.C.

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MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
A	Revision #1	2025-07-11

Job Number 7725-4055

TITLE

LEVEL 01 DEMOLITION FLOOR PLAN - PHASE 2 AREA C - MECHANICAL

SHEET NUMBER

DM2.01C

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SHEET NOTES

1. ALL PHASE 2 MECHANICAL SCOPE OF WORK IS INSIDE OF SINGLE SMOKE COMPARTMENT. NO NEW DUCT PENETRATIONS OF RATED WALLS REQUIRED.

FIRE & SMOKE RATING LEGEND

- EXISTING 1HR FIRE BARRIER
- EXISTING 2HR FIRE BARRIER
- NEW 1HR RATED FIRE BARRIER
- NEW 2HR RATED FIRE BARRIER
- EXISTING 1HR RATED SMOKE BARRIER
- EXISTING SMOKE PARTITION
- NEW 1HR RATED SMOKE BARRIER
- NEW SMOKE PARTITION

1 / TM2.01C
1 / TM2.01A 1 / TF2.01A
2 / TM2.01B 2 / TF2.01B

1 LEVEL 01 - SHEETMETAL - PHASE 2
SCALE: 1/8" = 1'-0"

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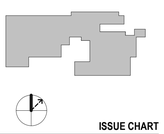
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE
A	Revision #1	2025-07-11

Job Number 7725-4055

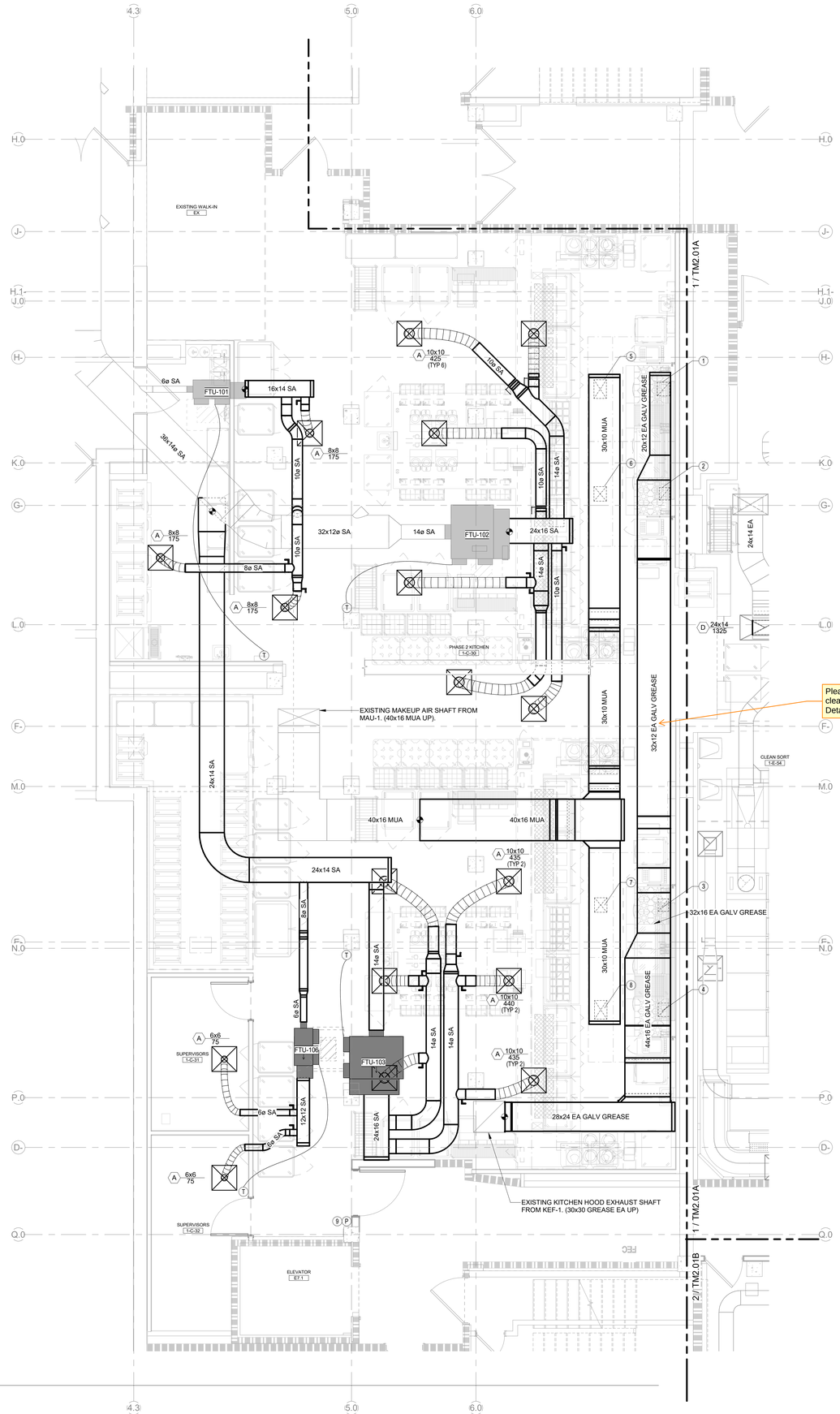
TITLE

LEVEL 01 OVERALL FLOOR PLAN - MECHANICAL

SHEET NUMBER

TM2.01

7/8/2025 1:52:47 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/MECH-MultiCare-Kitchen-R25.rvt



Please provide 506.3.8 Grease duct cleanouts and openings. Details and locations.

SHEET NOTES

1. RELOCATE EXISTING THERMOSTATS AS SHOWN FOR TERMINAL UNITS FTU-101, 102 AND 103.

KEY NOTES

1. 13x12 EA DN TO HOOD. BALANCE TO 1936 CFM.
2. 12x10 EA DN TO HOOD. BALANCE TO 1404 CFM.
3. 12x10 EA DN TO HOOD. BALANCE TO 1431 CFM.
4. 13x12 EA DN TO HOOD. BALANCE TO 1936 CFM.
5. 18x12 MUA DN TO HOOD. BALANCE TO 510 CFM.
6. 14x12 MUA DN TO HOOD. BALANCE TO 510 CFM.
7. 14x12 MUA DN TO HOOD. BALANCE TO 510 CFM.
8. 18x12 MUA DN TO HOOD. BALANCE TO 510 CFM.
9. ROOM PRESSURE SENSOR FOR CONTROL OF EF-4 VFD.

1 LEVEL 01 - SHEETMETAL - AREA C
SCALE: 1/4" = 1'-0"

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
A	Revision #1	2025-07-11

Job Number 7725-4055

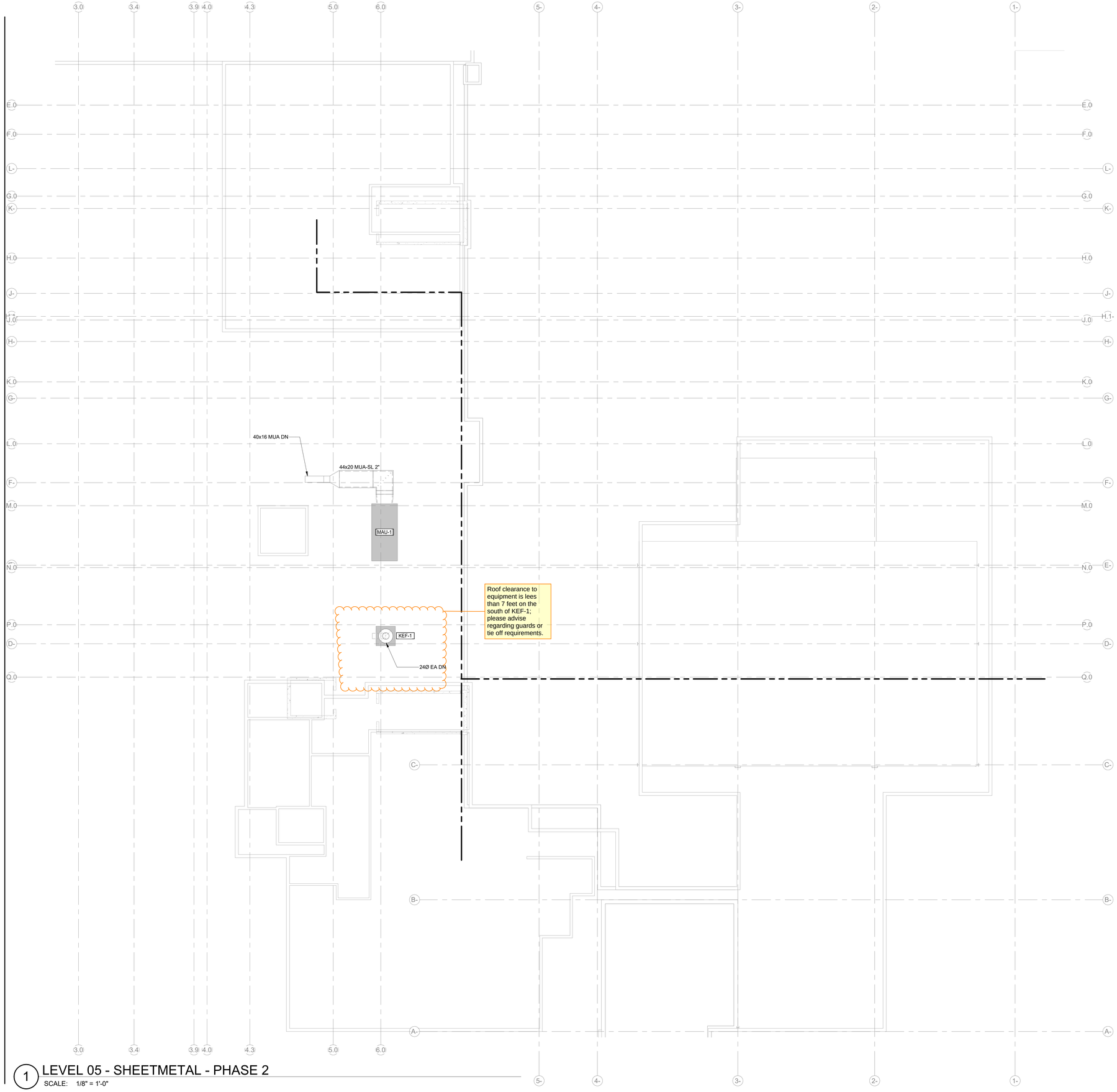
TITLE

LEVEL 01 FLOOR PLAN - PHASE 2 AREA C - MECHANICAL

SHEET NUMBER

TM2.01C

7/8/2025 1:52:52 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/MECH-MultiCare-Kitchen-R25.rvt



1 LEVEL 05 - SHEETMETAL - PHASE 2
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. EXISTING KITCHEN EQUIPMENT MAU-1 AND KEF-1 ARE TO BE REUSED ALONG WITH EXISTING DUCTWORK AND SHAFTS.

   A. GC TO CONFIRM EXISTING SHAFTS ARE SUITABLE FOR REUSE. SHAFTS FOUND TO BE IN POOR CONDITION MUST BE REPAIRED TO MAINTAIN REQUIRED FIRE RATING.

   B. MC TO CONFIRM EXISTING DUCTWORK IS SUITABLE FOR REUSE. DUCTS FOUND TO BE IN POOR CONDITION MUST BE REPAIRED OR REPLACED TO MAINTAIN PRESSURE CLASS AND MINIMIZE LEAKAGE.

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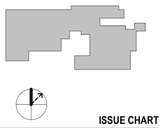
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE
A	Revision #1	2025-07-11

Job Number 7725-4055

TITLE

LEVEL 05 FLOOR PLAN - PHASE 2 - MECHANICAL

SHEET NUMBER

TM2.05

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SHEET NOTES

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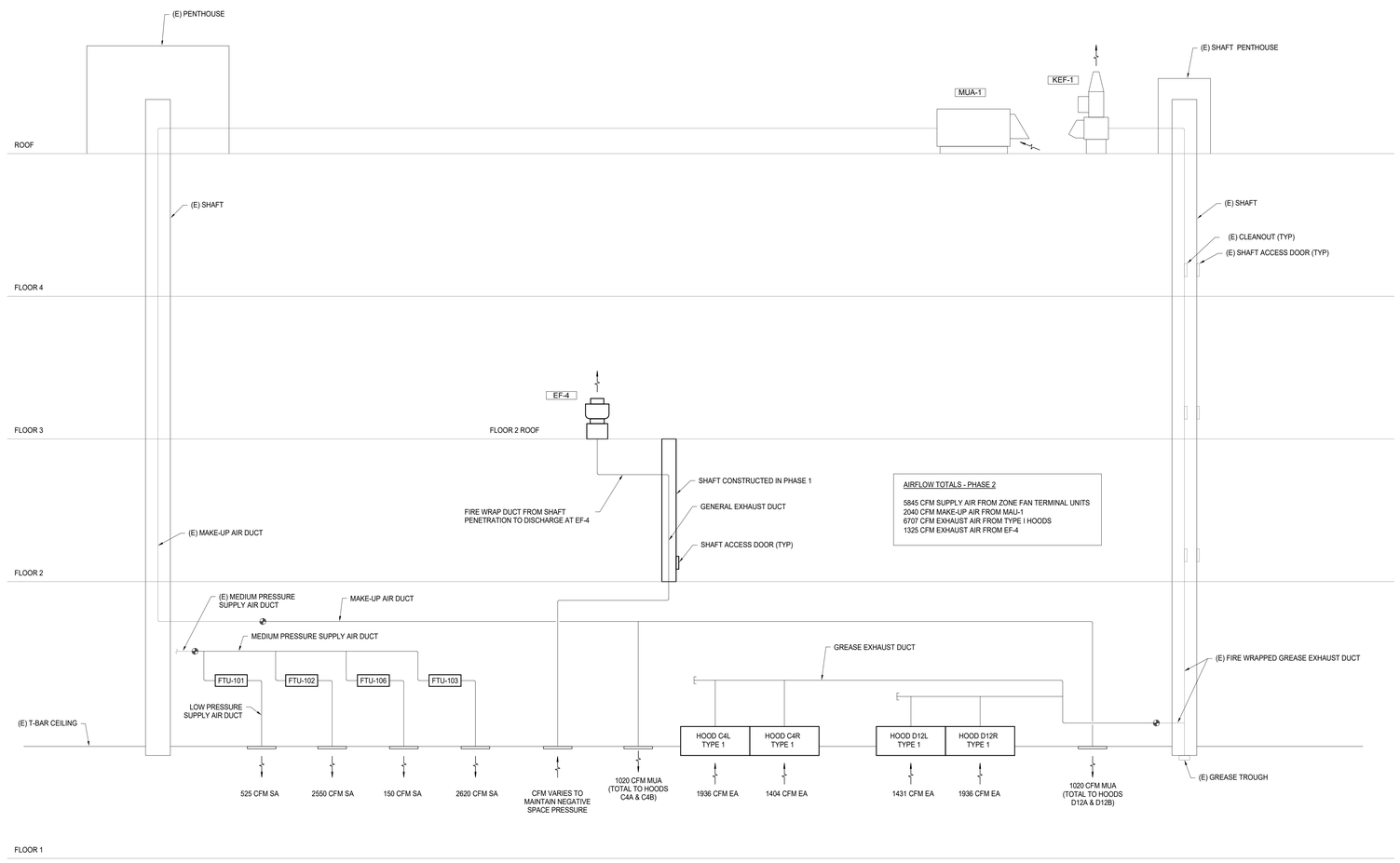
   B. MC TO CONFIRM EXISTING DUCTWORK IS SUITABLE FOR REUSE. DUCTS FOUND TO BE IN POOR CONDITION MUST BE REPAIRED OR REPLACED TO MAINTAIN PRESSURE CLASS AND MINIMIZE LEAKAGE.



PHASE 2 - KITCHEN AIRFLOW DIAGRAM

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
A	Revision #1	2025-07-11

Job Number 7725-4055

TITLE

AIRFLOW DIAGRAMS - PHASE 2 - MECHANICAL

SHEET NUMBER

TM4.02

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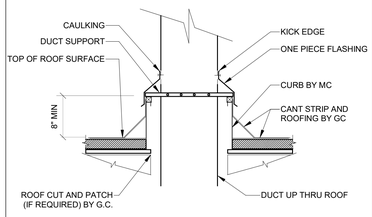
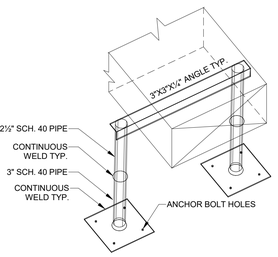
NOTES:

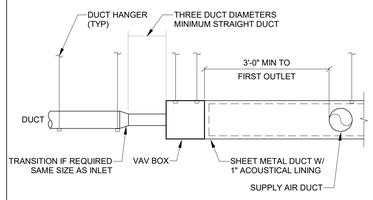
CURB DIMENSION ID SHALL BE DUCT DIMENSION PLUS 4" MIN.



20 TM6.01 — ROOF TOP DUCT PENETRATION CURB DETAIL
N.T.S.

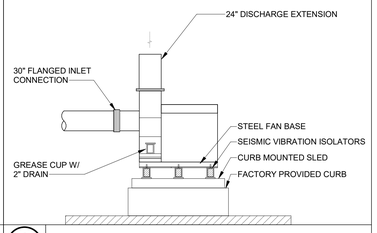


15 TM6.01 — ROOFTOP DUCT SUPPORT DETAIL
N.T.S.

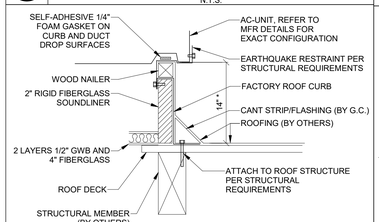


10 TM6.01 — VAV BOX DETAIL
N.T.S.

NOTE: COORDINATE EQUIPMENT SUPPORT LOCATION WITH STRUCTURAL ENG & G.C



5 TM6.01 — KITCHEN GREASE EXHAUST FAN
N.T.S.

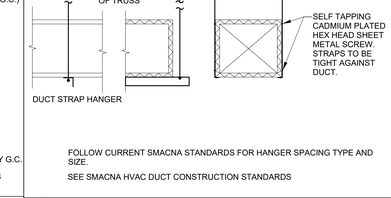


NOTE:

ROOF OPENING AND TEMPORARY WEATHER COVER OF ROOF OPENING BY G.C.

*14" IS MINIMUM STANDARD. FOR ABOVE DECK INSULATION APPLICATIONS MAINTAIN 8" DISTANCE FROM UNIT GASKET TO TOP OF FINISHED ROOF.

19 TM6.01 — ROOF TOP AC UNIT CURB DETAIL (UNITS 5 TO 25 TON)
N.T.S.



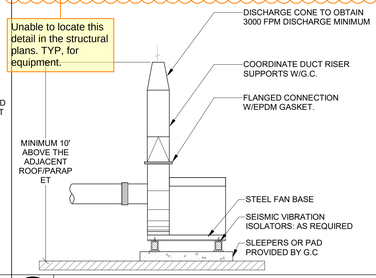
FOLLOW CURRENT SMACNA STANDARDS FOR HANGER SPACING TYPE AND SIZE.

SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS

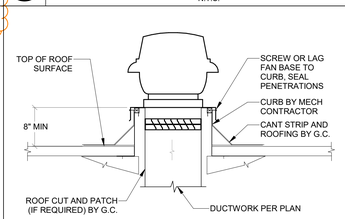
14 TM6.01 — DUCTWORK HANGER SCHEDULE / DETAIL
N.T.S.

NOTE: COORDINATE EQUIPMENT SUPPORT LOCATION WITH STRUCTURAL ENG & G.C

Unable to locate this detail in the structural plans. TYP. for equipment.



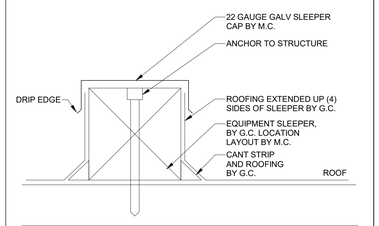
9 TM6.01 — KEF-1 EXHAUST FAN DETAIL (EXISTING)
N.T.S.



GENERAL NOTES:

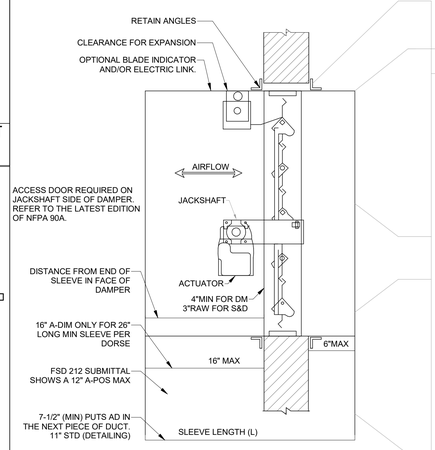
EXACT DAMPER & CURB SIZE MUST BE CHECKED FROM EQUIPMENT SUBMITTALS. FINAL RESPONSIBILITY FOR CORRECT CURB & DAMPER SIZES BY INSTALLER

4 TM6.01 — EXHAUST FAN INSTALLATION DETAIL
N.T.S.



18 TM6.01 — ROOF TOP EQUIPMENT SLEEPER SUPPORT DETAIL
N.T.S.

COMBINATION FIRE/SMOKE DAMPER INSTALLATION INSTRUCTIONS



TYPE A & AS VERTICAL MOUNTING

1-1/2 AND 3 HOUR RATED LISTED AND LABELED BY:

ULC UL

MANUFACTURES INSTALLATION INSTRUCTIONS TAKE PRIORITY. THIS INFORMATION MEANT TO SUPPLEMENT MANUFACTURES INFORMATION.

DAMPERS SHALL BE SECURED TO COLLAR WITH NO. 10 SHEET METAL SCREWS 6" ON CENTER, 1/4" DIA. NUTS AND BOLTS, WELDING, OR 3/16" STEEL POP RIVETS.

SEE NOTES 2 AND 3 FOR JOINT DETAIL.

ANGLES SHALL BE A MINIMUM OR 1 1/2" X 1 1/2" X 16 GAUGE. FASTEN TO COLLAR WITH 1/4" DIAMETER NUTS AND BOLTS, WELDING 6" ON CENTER, NO. 10 SHEET METAL SCREWS 6" ON CENTER, OR 3/16" STEEL POP RIVETS. (SEE NOTE 4 FOR CLEARANCE AND OVERLAP.)

NOTES:

1. COLLARS SHALL BE OF THE SAME GAUGE OR HEAVIER AS THE DUCT TO WHICH IT IS ATTACHED. GAUGES SHALL CONFORM TO SMACNA OR ASH-RAE DUCT STANDARDS. COLLARS SHALL EXTEND APPROXIMATELY 3" ON EITHER SIDE OF WALL OR FLOOR TO FACILITATE THE JOINING OF THE COLLAR TO THE DUCT. IN CASES WHERE THE WIDTH OF THE RETAINING ANGLE IS SUCH THAT IT WOULD INHIBIT JOINING THE COLLAR TO THE DUCT, THE COLLAR MAY EXTEND APPROXIMATELY 2" BEYOND THE EDGE OF THE ANGLES. SEE NOTE 3.
2. THE FOLLOWING DUCT-COLLAR CONNECTIONS MAY BE USED ON ALL SYSTEMS:
   - INSIDE SLIP
   - PLAIN 'S' SLIP
   - HEMMED 'S' SLIP
   - BAR SLIP
   - ALTERNATE BAR SLIP (STANDING SLIP)
   - REINFORCED BAR SLIP (CLEAT)
   - DOUBLE 'S' SLIP
   - CUP SLIP
   - DRIVE SLIP
   - POCKET LOCK
3. WHEN THE DUCT WORK TERMINATES AT THE DAMPER, RETAINING ANGLES ON THE OPPOSITE SIDE OF THE OPENING MAY BE REVERSED PROVIDED THE SIZE OF THE OPENING IS INCREASED BY AN AMOUNT EQUAL TO TWICE THE COMBINED THICKNESS OF THE ANGLE AND THE HEIGHT OF THE SCREW OR BOLTHEAD TO MAINTAIN EXPANSION CLEARANCE. (SEE NOTE 4.) IN THIS CASE THE COLLAR AT THE OPEN END MAY BE MADE FLUSH WITH THE EDGE OF THE RETAINING ANGLE.
4. CLEARANCE BETWEEN THE COLLAR AND WALL/FLOOR OPENING SHALL BE 1/8" PER FOOT ON HEIGHT AND WIDTH OF COLLAR TO A MAXIMUM OF 1/2" (E.G. DAMPER 47 3/4" X 47 3/4", COLLAR 48" X 48", OPENING 48 1/2" X 48 1/2"). PERIMETER ANGLES SHALL OVERLAP THE WALL/FLOOR BY A MINIMUM OF 1".
5. MAXIMUM SINGLE DAMPER OF A MULTIPLE ASSEMBLY SHALL BE 36"X48". MAXIMUM MULTIPLE ASSEMBLY SHALL BE 72"X48".
6. IN CASES WHERE THE OPENINGS ARE LARGER THAN SPECIFIED IN NOTE 5, A 12" WIDE BRICK OR REINFORCED CONCRETE MULLION MUST BE PROVIDED BETWEEN ADJACENT ASSEMBLIES.
7. AS WITH ALL JOINTS, CONTRACTOR MUST SEAL DUCT-COLLAR CONNECTIONS, IN FIELD, AFTER INSTALLATION.
8. SUITABLE ACCESS SERVICE OPENINGS MUST BE PROVIDED TO MAKE FIRE DAMPERS ACCESSIBLE FOR INSPECTION AND SERVICING.
9. HORIZONTAL MOUNTINGS IDENTICAL.

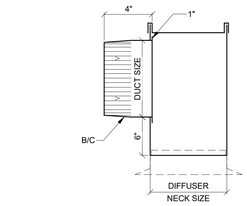
IMPORTANT:

- DO NOT CAST DAMPER IN PLACE.
- DO NOT FASTEN RETAINING ANGLES OR DAMPER DIRECTLY TO WALL OR FLOOR.
- CYCLE DAMPER AFTER INSTALLATION TO INSURE FREE MOVEMENT.
- DO NOT INSTALL DAMPER OUT OF SQUARE OR OUT OF FLAT.
- INSTALL DAMPER IN PLANE OF FIRE SEPARATION.

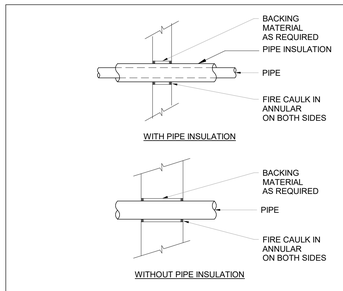
NOTE:

CAUTION - HEAVY SPRING USED TO LOAD SPRINT LINK ACTUATOR. USE CARE IN RESETTING LINK.

11 TM6.01 — FIRE / SMOKE DAMPER INSTALLATION DETAIL
N.T.S.

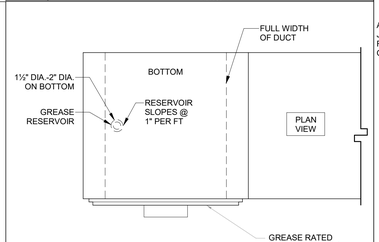


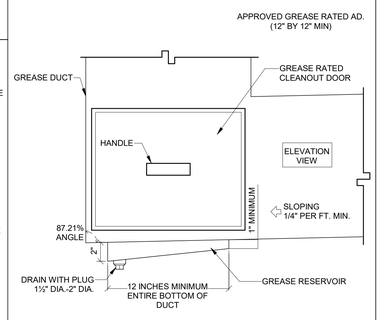
3 TM6.01 — DIFFUSER CAN DETAIL (NO PERF)
N.T.S.



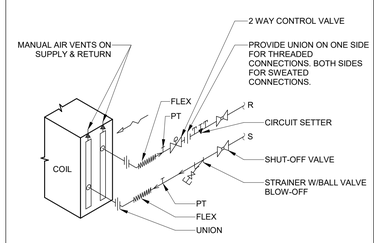
NOTE: INSTALL PER MFG. INSTRUCTIONS AND UL LISTING

22 TM6.01 — PIPING THRU RATED WALLS
N.T.S.



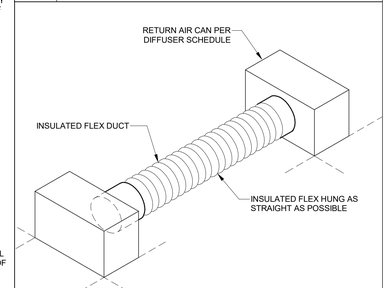


16 TM6.01 — GREASE RESERVOIR
N.T.S.

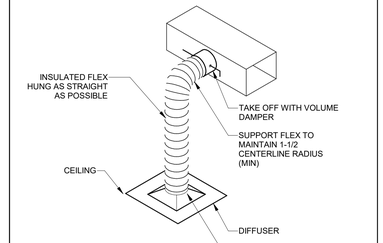


NOTE: A COMPLETE HOSE KIT W/ ALL COMPONENTS MAY BE PROVIDED.

21 TM6.01 — HYDRONIC COIL WITH 2-WAY CONTROL DETAIL
N.T.S.



2 TM6.01 — DUCTED TRANSFER GRILLE INSULATION DETAIL
N.T.S.



1 TM6.01 — DIFFUSER INSTALLATION DETAIL
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MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
A	Revision #1	2025-07-11

Job Number 7725-4055

TITLE

DETAILS - MECHANICAL

SHEET NUMBER

TM6.01

7/8/2025 1:52:57 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/MECH-MultiCare-Kitchen-R25.rvt

PLUMBING GENERAL ABBREVIATIONS

ABBR	FULL NAME	ABBR	FULL NAME	ABBR	FULL NAME
AAV	AIR ADMITTANCE VALVE	DN	DOWN	NIC	NOT IN CONTRACT
ABV	ABOVE	DS	DOWNSPOUT	NSF	NATIONAL SANITATION FOUNDATION
AFF	ABOVE FINISHED FLOOR	DWG	DRAWING	NTS	NOT TO SCALE
AP	ACCESS PANEL	E	EXISTING	ORD	OVERFLOW ROOF DRAIN
BEL	BELOW	ELEV	ELEVATION	POC	POINT OF CONNECTION
BFP	BACKFLOW PREVENTER	ET	EXPANSION TANK	PRV	PRESSURE REDUCING VALVE
BOP	BOTTOM OF PIPE	EWH	ELECTRIC WATER HEATER	PVC	POLYVINYL CHLORIDE
BV	BALL VALVE	F	FIRE	RD	ROOF DRAIN
BWV	BACK WATER VALVE	FCO	FLOOR CLEAN OUT	RPBA	REDUCED PRESSURE BACKFLOW ASSY
CB	CATCH BASIN	FD	FLOOR DRAIN	TOG	TOP OF GRATE
CFF	CAP FOR FUTURE	FU	FIXTURE UNIT	UG	UNDER GROUND
CI	CAST IRON	GCO	GRADE CLEANOUT	UNO	UNLESS NOTED OTHERWISE
CL	CENTER LINE	GI	GREASE INTERCEPTOR	VTR	VENT THRU ROOF
CO	CLEAN OUT	GPM	GALLONS PER MINUTE	W/	WITH
CPVC	CPVC MATERIAL	GWH	GAS WATER HEATER	WCO	WALL CLEAN OUT
DCBP	DOUBLE CHECK BACKFLOW PREVENTER	HB	HOSE BIBB	WH	WALL HYDRANT
DCVA	DOUBLE CHECK VALVE ASSEMBLY	HP	HIGH PRESSURE	WHA	WATER HAMMER ARRESTOR
DCW	DOMESTIC COLD WATER	IE	INVERT ELEVATION	WM	WATER METER
DHW	DOMESTIC HOT WATER	MFR	MANUFACTURER	WSFU	WATER SERVICE FIXTURE UNIT
DEMO	DEMOLISH	MH	MANHOLE	YH	YARD HYDRANT
DFU	DRAINAGE FIXTURE UNIT				

PLUMBING SYSTEM LEGEND

LINE TYPE	FULL NAME	ABBR
DOMESTIC WATER		
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER CIRC	HWC
HP	DOMESTIC COLD, HIGH PRESSURE	CW-HP
HP	DOMESTIC HOT, HIGH PRESSURE	HW-HP
HP	DOMESTIC HOT CIRC, HIGH PRESSURE	HWC-HP
HT	DOMESTIC HOT, HIGH TEMP (>140)	HW-HT
HT	DOMESTIC HOT CIRC, HIGH TEMP (>140)	HWC-HT
FW	FILTERED WATER	FW
TW	TEMPERED WATER	TW
TWC	TEMPERED WATER CIRC	TWC
TP	TRAP PRIMER	TP
FUEL GASES		
NG-L	NATURAL GAS LOW PRESSURE	NG-L
NG-M	NATURAL GAS MEDIUM PRESSURE	NG-M
NG-H	NATURAL GAS HIGH PRESSURE	NG-H
NG-V	GAS VENT	NG-V
LPG	LIQUID PROPANE GAS	LPG
FLU	FLUE VENT	FLU
COMB	COMBUSTION AIR	COMB

LINE TYPE	FULL NAME	ABBR
SANITARY SEWER		
GD	GARAGE DRAIN	GD
GW	GREASE WASTE	GW
IW	INDIRECT WASTE	IW
PW	PUMPED WASTE	PW
V	SANITARY VENT	V
W	SANITARY WASTE	W
STORM		
FTDR	FOOTING DRAIN	FTDR
ORL	OVERFLOW RAIN LEADER	ORL
RL	RAIN LEADER	RL
PRL	PUMPED RAIN LEADER	PRL

PLUMBING SYSTEM LEGEND

SYMBOL	FULL NAME	ABBR
	VALVE TWO-WAY CONTROL	2WAY
	VALVE THREE-WAY CONTROL	3WAY
	VALVE AUTOMATIC FLOW CONTROL	AF
	VALVE BACKWATER VALVE	BWV
	VALVE BALANCING	BALV
	VALVE BALANCING AUTOMATIC	ABALV
	VALVE BALL - FULL PORTED	BV
	VALVE BALL - W/ 3/4" HOSE ADAPTOR	BV W/ HA
	VALVE CHECK	CV
	VALVE GAS COCK	GC
	VALVE GATE	GV
	VALVE GLOBE	GLV
	VALVE PRESSURE REDUCING	PRV
	VALVE PRESSURE RELIEF	RV
	VALVE SOLENOID	SV
	WATER HAMMER ARRESTOR	WHA
	DOUBLE CHECK BACKFLOW PREVENTER	DCBP
	REDUCED PRESS. BACKFLOW PREVENTER	RPBP
P	PRESSURE INDICATOR	PRESS
	TEMPERATURE INDICATOR	THERM
M	SUB-METER WATER FLOW	MTR
	PRESSURE / TEMPERATURE PORT	P&T
	STRAINER	STRN
	UNION	UNION
	HOSE BIBB	HB
	PIPE BREAK - PIG TAIL	
	POINT OF CONNECTION	POC
	FLOW ARROW	
	CONCENTRIC REDUCER	CR
	THERMAL EXPANSION DEVICE	EXP

SYMBOL	FULL NAME	ABBR
W	PIPE - EXISTING	
W	PIPE - DEMO	
W	PIPE - NEW	
W	PIPE - FUTURE	
6" W	PIPE - SIZE & ABBREVIATION	
6" DHW-W	PIPE - SIZE & ABBREVIATION WITH INSULATION	
	FLEX PIPE	
	PIPE - HEAT TRACE	
	PUMP	
	EXPANSION TANK	ET
	60" OFFSET FOR SUDS	60" OFST
	DOMESTIC PEX MANIFOLD	MFLD
	PLUMBING TRAP	TRAP
FLTR-1	PLUMBING FIXTURE N.I.C. TAG	
WC-1	PLUMBING FIXTURE TAG	
	PLUMBING FIXTURE	
WH-1	PLUMBING EQUIPMENT TAG	
1/2% SLOPE	1/16" PER FOOT PIPE SLOPE	
1%SLOPE	1/8" PER FOOT PIPE SLOPE	
2% SLOPE	1/4" PER FOOT PIPE SLOPE (TYP. UNO)	
	VENT THROUGH ROOF	VTR
	FLOOR CLEANOUT	FCO
	WALL CLEANOUT	WCO
	FLOOR DRAINS	FD
	FLOOR SINKS	FS
	ROOF DRAIN (RISER)	RD
	OVER-FLOW DRAIN (RISER)	OD
	ROOF, OVERFLOW, & COMBINATION DRAINS	OD/RD
	PLANTER DRAIN	

PLUMBING EQUIPMENT SCHEDULE

NO.	EQUIPMENT DESCRIPTION
SA-A	SHOCK ARRESTOR - SIOUX CHIEF 652-A, PDI RATED SIZE A, 1/2" THREADED CONNECTION, SEALED CHAMBER WITH PISTON RATED FOR WALL CLOSURE.
TP-1	TRAP PRIMER - PRECISION PLUMBING PRODUCTS MODEL MP-500-115V, MINI-PRIME ELECTRONIC TRAP PRIMER, 115 VOLT/1 PHASE, ADJUSTABLE RECYCLE TIMER, SOLENOID OPERATED, WITH AIR GAP. MAX 4 DRAINS. HORIZONTAL LINES SLOPE TO DRAIN. MAX 20' RECOMMENDED. ELECTRICAL TO PROVIDE DISCONNECT.

BALANCING VALVE & CIRCUIT BALANCING VALVE SCHEDULE

UNIT NO.	MFR. MODEL NO.	VALVE SIZE	GPM	VALVE POSITION	Cv RATING FULL OPEN	PRESSURE DROP IN PSI	NOTES
BV-1	VICTAULIC TA SERIES 788L	3/4"	0.94-12.48	1-20	6.67	? PSI	1, 2
BV-2	VICTAULIC TA SERIES 788L	1"	1.56-19.30	1-20	10.32	? PSI	1, 2
BV-3	VICTAULIC TA SERIES 788L	2"	6.18-85.00	1-20	45.3	? PSI	1, 2
CBV-1	CIRCUIT SOLVER CSUAS-1/2-115-CV1	1/2"	0.50	FACTORY SET	0.6	.69 (1.65' TDH)	1, 2, 3
CBV-2	B&G CIRCUIT SETTER PLUS RF-1/2S LF	1/2"	1/2	FIELD SET			2, 4, 5

NOTES:
1. THREADED CONNECTION.
2. COMPLIES WITH NSF/ANSI STANDARD 61 FOR LEAD CONTENT.
3. INCLUDES FACTORY SUPPLIED STRAINER, CHECK VALVE, (2) SHUT-OFF VALVES AND UNION.
4. SWEAT CONNECTION.
5. INCLUDES FACTORY SUPPLIED CAPPED READOUT VALVES, CHECK VALVES AND DRAIN PORT.

BACKFLOW PREVENTER SCHEDULE

SYMBOL	LOCATION	TYPE	SYSTEM SERVICED	MFR. & MODEL NO.	SIZE	AIR GAP MODEL	MAX DESIGN FLOW PRESSURELOSS	WEIGHT (LBS)	NOTES
BFP-01	KITCHEN	REDUCED PRESSURE	-	WATTS LF009-QT-FS	1/2"	909AGA	17 PSI @ 5 GPM	6	1, 2
BFP-02	KITCHEN	REDUCED PRESSURE	-	WATTS LF009-QT-FS	3/4"	909AGC	13 PSI @ 3-20 GPM	8	1, 2
BFP-03	KITCHEN	DOUBLE CHECK	-	WATTS LF007QT-FZ	1/2"	-	3 PSI @ 10-40 GPM	5	3

NOTES:
1. PROVIDE WITH PRESSURE DIFFERENTIAL RELIEF VALVE LOCATED BETWEEN TWO INDEPENDENTLY OPERATED SPRING LOADED CHECK VALVES, TWO RESILIENT SEAT BALL VALVES AND FOUR RESILIENT SEATED BALL TEST COCKS, AND A "Y" STRAINER. W/ AIR GAP.
2. BRONZE CONSTRUCTION, ASSE 1013 & NSF-61 LISTED.
3. BRONZE CONSTRUCTION, ASSE 1015 & NSF-61 LISTED.

MIXING VALVE SCHEDULE

UNIT NO.	LOCATION	SERVICE	MFR. & MODEL NO.	TYPE	INLET SIZE	OUTLET SIZE	OUTLET TEMP	GPM RANGE	PSI LOSS	NOTES
MV-1	AT ALL LAVS	DOMESTIC LAVS	WATTS LFUSG-B-M2	THERMOSTATIC	1/2"	1/2"	105°F	0.35-1	-	1, 2
MV-2										

NOTES:
1. POINT OF USE, ASSE 1070 VALVE. W/ TAMPER RESISTANT LOCKING CAP
2. BRONZE CONSTRUCTION.

2021 WASHINGTON STATE ENERGY CODE COMMISSIONING AND BALANCING SCHEDULE

COMMISSIONING IN COMPLIANCE WITH 2021 WASHINGTON STATE ENERGY CODE (WSEC) SECTION C408 SHALL BE REQUIRED FOR ALL NEW SYSTEMS OR MODIFIED PORTIONS OF SYSTEMS UNLESS THE SYSTEMS MEET ONE OR MORE OF THE FOLLOWING EXCEPTIONS:

EXCEPTION 2: SERVICE WATER HEATING SYSTEMS IN BUILDINGS WITH SERVICE WATER HEATING SYSTEMS CAPACITY LESS THAN 200,000 BTU/H AND THERE ARE NO POOLS OR
PERMANENT SPAS, SOLAR THERMAL HEATING, RECIRCULATION PUMPS, AND HEAT PUMP WATER HEATERS (EXCEPT PACKAGED UNITS FOR RESIDENTIAL USE).

EXCEPTION 4: REFRIGERATION SYSTEMS LIMITED TO SELF CONTAINED UNITS.

THE COMMISSIONING PROFESSIONAL MUST MEET ONE OF THESE MINIMUM REQUIREMENTS:
1) AN INDIVIDUAL WHO IS CERTIFIED BY AN ANSI/ISO/IEC 17024:2012 ACCREDITED ORGANIZATION TO LEAD, PLAN, COORDINATE AND MANAGE COMMISSIONING TEAMS AND IMPLEMENT THE COMMISSIONING PROCESS.

THE COMMISSIONING PROFESSIONAL SHALL PERFORM THE FOLLOWING TASKS:
1) DEVELOPMENT AND EXECUTION OF THE COMMISIONING PLAN, INCLUDING ALL SUBSECTIONS OF WSEC SECTION C408.1.2.
2) REVIEW OF BUILDING DOCUMENTATION AND CLOSE OUT SUBMITTALS.
3) PREPAIRING THE FINAL COMMISSIONING REPORT IN ACCORDANCE WITH WSEC SECTION C408.1.3.

ALL EQUIPMENT/SYSTEMS LISTED IN DRAWING EQUIPMENT SCHEDULES SHALL BE COMMISSIONED UNLESS LISTED AS AN EXCEPTION WITHIN THIS SCHEDULE.

WHERE THE CERTIFIED COMMISSIONING PROFESSIONAL'S CONTRACT OR EMPLOYMENT IS OTHER THAN DIRECTLY WITH THE BUILDING OWNER, AN IN-HOUSE COMMISSIONING DISCLOSURE AND CONFLICT MANAGEMENT PLAN SHALL BE A PART OF THE COMMISSIONING PROCESS. A COPY SHALL BE INCLUDED IN THE COMMISSIONING PLAN. THIS PLAN SHALL DISCLOSE THE CERTIFIED COMMISSIONING PROFESSIONAL'S CONTRACTUAL RELATIONSHIP WITH OTHER TEAM MEMBERS AND PROVIDE A CONFLICT MANAGEMENT PLAN DEMONSTRATING THAT THE CERTIFIED COMMISSIONING PROFESSIONAL IS FREE TO IDENTIFY ANY ISSUES DISCOVERED AND REPORT DIRECTLY TO THE OWNER.

FUNCTIONAL PERFORMANCE TESTING SHALL BE CONDUCTED FOR MECHANICAL SYSTEMS IN WSEC SECTIONS C403; SERVICE WATER HEATING SYSTEMS IN WSEC SECTION C404; EQUIPMENT, APPLIANCES AND SYSTEMS INSTALLED TO COMPLY WITH WSEC SECTION C406 OR C407; ENERGY METERING IN WSEC SECTION C409; AND REFRIGERATION SYSTEMS IN WSEC SECTION C410. WRITTEN PROCEDURES WHICH CLEARLY DESCRIBE THE INDIVIDUAL SYSTEMATIC TEST PROCEDURES, THE EXPECTED SYSTEM RESPONSE OR ACCEPTANCE CRITERIA FOR EACH PROCEDURE, THE ACTUAL RESPONSE OR FINDINGS, AND ANY PERTINENT DISCUSSION SHALL BE FOLLOWED. THIS TESTING SHALL INCLUDE CONTROL SYSTEMS WHICH WILL BE TESTED TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED AND ADJUSTED TO OPERATE IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS. TESTING SHALL AFFIRM THE CONDITIONS REQUIRED WITHIN WSEC SECTIONS C408.2 THROUGH C408.7 UNDER SYSTEM TESTING.

FOR PROJECTS WITH SEVEN OR FEWER SIMILAR SYSTEMS, EACH SYSTEM SHALL BE TESTED. FOR PROJECTS WITH MORE THAN SEVEN SYSTEMS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF CONTROLS TYPE. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF CONTROL TYPES EXIST, NO FEWER THAN 20 PERCENT OF EACH COMBINATION SHALL BE TESTED UNLESS THE CODE OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED SYSTEMS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.

A COMMISSIONING REPORT SHALL BE COMPLETED AND CERTIFIED BY THE CERTIFIED COMMISSIONING PROFESSIONAL AND DELIVERED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT. THE REPORT SHALL BE ORGANIZED WITH MECHANICAL, SERVICE WATER HEATING, CONTROLLED RECEPTACLE AND LIGHTING CONTROL SYSTEMS, ENERGY METERING, AND REFRIGERATION FINDINGS IN SEPARATE SECTIONS TO ALLOW INDEPENDENT REVIEW. THE REPORT SHALL RECORD THE ACTIVITIES AND RESULTS OF THE COMMISSIONING PROCESS AND BE DEVELOPED FROM THE FINAL COMMISSIONING PLAN WITH ALL OF ITS ATTACHED APPENDICES. THE REPORT SHALL INCLUDE:

1) RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2) DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
3) FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN REPEATABILITY.
4) COMMISIONING PLAN.
5) TESTING, ADJUSTING AND BALANCING REPORTS.

EXCEPTION: DEFERRED TESTS WHICH CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION DUE TO CLIMATE CONDITIONS.

PRIOR TO THE FINAL MECHANICAL AND PLUMBING INSPECTIONS OR OBTAINING A CERTIFICATE OF OCCUPANCY, THE CERTIFIED COMMISSIONING PROFESSIONAL SHALL PROVIDE EVIDENCE OF BUILDING COMMISSIONING IN ACCORDANCE WITH WSEC SECTION C408.1.4.1.
THE CODE OFFICIAL SHALL BE PERMITTED TO REQUIRE THAT A COPY OF THE COMMISSIONING REPORT BE MADE AVAILABLE FOR REVIEW BY THE CODE OFFICIAL.

MECHANICAL EQUIPMENT AND CONTROLS SUBJECT TO WSEC SECTION C403 SHALL BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY SECTION C408.1. THE COMMISSIONING PROCESS SHALL MINIMALLY INCLUDE ALL ENERGY CODE REQUIREMENTS FOR WHICH THE CODE STATES THAT EQUIPMENT OR CONTROLS SHALL "BE CAPABLE OF" OR "CONFIGURED TO" PERFORM SPECIFIC FUNCTIONS.

SERVICE WATER HEATING EQUIPMENT AND CONTROLS SUBJECT TO WSEC SECTION C404 SHALL BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY WSEC SECTION C408.1. THE COMMISSIONING PROCESS SHALL MINIMALLY INCLUDE EQUIPMENT AND COMPONENTS INSTALLED TO MEET ALL ENERGY CODE REQUIREMENTS FOR DEVICES TO "START," "AUTOMATICALLY TURN OFF," "AUTOMATICALLY ADJUST," "LIMIT OPERATION," AND "LIMIT THE TEMPERATURE" AND "BE CONFIGURED TO."

FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THAT HEATERS, PIPING, DISTRIBUTION SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS ARE INSTALLED AND OPERATE IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS. TESTING SHALL INCLUDE THE SEQUENCE OF OPERATION, AND BE CONDUCTED UNDER AT LEAST 50 PERCENT WATER HEATING LOAD, PART-LOAD AND THE FOLLOWING CONDITIONS:
1) NORMAL OPERATION.
2) REDUNDANT OR AUTOMATIC BACK-UP MODE.
3) PERFORMANCE OF ALARMS.
4) MODE OF OPERATION UPON LOSS OF POWER AND RESTORATION OF POWER.

EQUIPMENT, COMPONENTS, CONTROLS OR CONFIGURATION SETTINGS FOR SYSTEMS WHICH ARE INCLUDED IN THE PROJECT TO COMPLY WITH WSEC SECTIONS C406 OR C407 SHALL BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY WSEC SECTION C408.1.
FUNCTIONAL PERFORMANCE TESTING FOR THESE APPLIANCES, EQUIPMENT, COMPONENTS, CONTROLS AND/OR CONFIGURATION SETTINGS SHALL DEMONSTRATE OPERATION, FUNCTION AND MAINTENANCE SERVICEABILITY FOR EACH OF THE COMMISSIONED SYSTEMS IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

ENERGY METERING SYSTEMS REQUIRED BY SECTION C409 SHALL COMPLY WITH WSEC SECTION C408.6 AND BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY SECTION C408.1. THE COMMISSIONING PROCESS SHALL INCLUDE ALL ENERGY METERING EQUIPMENT AND CONTROLS REQUIRED BY WSEC SECTION C409.

FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THAT ENERGY SOURCE METERS, END-USE METERS, DATA ACQUISITION SYSTEMS, AND ENERGY DISPLAYS ARE INSTALLED AND OPERATE IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS. AT A MINIMUM, TESTING SHALL CONFIRM THAT:
1) THE METERING SYSTEM DEVICES AND COMPONENTS WORK PROPERLY UNDER LOW AND HIGH LOAD CONDITIONS.
2) THE METERED DATA IS DELIVERED IN A FORMAT THAT IS COMPATIBLE WITH THE DATA COLLECTION SYSTEM.
3) THE ENERGY DISPLAY IS IN A LOCATION WITH ACCESS TO BUILDING OPERATION AND MANAGEMENT PERSONNEL.
4) THE ENERGY DISPLAY MEETS CODE REQUIREMENTS REGARDING VIEWS REQUIRED IN SECTION C409.4.3. THE DISPLAY SHOWS ENERGY DATA IN IDENTICAL UNITS (E.G., KWH).

ALL INSTALLED REFRIGERATION SYSTEMS SUBJECT TO WSEC SECTION C410 SHALL BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY WSEC SECTION C408.1.
EXCEPTIONS: SELF-CONTAINED REFRIGERATION SYSTEMS ARE EXEMPT FROM THE COMMISSIONING PROCESS OR TOTAL INSTALLED CAPACITY FOR REFRIGERATION IS EQUAL TO OR LESS THAN 240 KBTU/H.
FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THAT COMPRESSORS, HEAT EXCHANGERS, PIPING, DISTRIBUTION SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS ARE INSTALLED AND OPERATE IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS. TESTING SHALL INCLUDE THE SEQUENCE OF OPERATION AND BE CONDUCTED UNDER FULL LOAD, PART LOAD AND THE FOLLOWING CONDITIONS:
1) NORMAL MODE.
2) REDUNDANT OR AUTOMATIC BACK-UP MODE.
3) PERFORMANCE OF ALARMS.
4) MODE OF OPERATION UPON LOSS OF POWER AND RESTORATION OF POWER.

FIXTURE CONNECTION SCHEDULE

NO.	FIXTURE	LOCAL CONNECTION WASTE	VENT	HOT	COLD
KS-1	ADA KITCHEN SINK - ELKAY DAYTON D12631-3 SELF-RIMMING STAINLESS STEEL SINGLE COMPARTMENT 3 HOLE SINK, WELKAY LK1000CR SINGLE HANDLE FAUCET SWING SPOUT, 1.5 GPM, BRASSCRAFT G2CR19 STOPS, FLUIDMASTER B1F20 20" CONNECTORS, 1/2 HP BADGER 5 GARBAGE DISPOSER, 115V/1PH, ELECTRICAL TO PROVIDE SWITCHED RECEPTACLE BELOW SINK.	2"	1 1/2"	1/2"	1/2"
KS-2	KITCHEN SINK - RELOCATED EXISTING SINK. EXISTING FAUCET, DRAIN, TAILPIECE & STOPS TO BE REUSED.	2"	1 1/2"	1/2"	1/2"

DRAIN CONNECTION SCHEDULE

NO.	DRAIN DESCRIPTION	LOCAL CONNECTION WASTE	VENT	STORM
FF-1	FUNNEL FLOOR DRAIN - WATTS FD-102-A7-7 WITH F4-1, EPOXY COATED CAST IRON BODY WITH ANCHOR FLANGE, 7" ROUND ADJUSTABLE NICKEL BRONZE STRAINER, REVERSIBLE CLAMPING COLLAR WITH WEEPHOLES AND 4" ROUND NICKEL BRONZE FUNNEL. WITH TRAP PRIMER.	2"	2"	-
FD-1	FLOOR DRAIN - WATTS FD-323-7, EPOXY COATED CAST IRON BODY WITH ANCHOR FLANGE, BODY COLLAR WITH WEEPHOLES AND 8" DIA ADJUSTABLE TOP WITH DUCTILE IRON GRATE. WITH TRAP PRIMER.	3"	2"	-
FS-1	FLOOR SINK - WATTS FS-722-150, 8" ROUND x 6" DEEP, CAST IRON WITH A.R.E. INTERIOR & GRATE, 1/2 GRATE, AND ANTI-SPLASH POLYPROPYLENE BOTTOM DOME STRAINER. INSTALL FLOOD LEVEL RIM FLUSH WITH FIN FLR. WITHOUT TRAP PRIMER.	2"	2"	-
FS-2	FLOOR SINK - WATTS FS-763-150, 12" ROUND x 8" DEEP, CAST IRON WITH A.R.E. INTERIOR & GRATE, 1/2 GRATE AND ANTI-SPLASH POLYPROPYLENE BOTTOM DOME STRAINER, INSTALL FLOOD LEVEL RIM FLUSH WITH FIN FLR. WITHOUT TRAP PRIMER.	3"	2"	-

PLUMBING GENERAL NOTES - WASHINGTON

1. THIS PROJECT WAS DESIGNED UNDER THE FOLLOWING CODES:
- 2021 UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS (UPC)
- 2021 WASHINGTON STATE FUEL GAS CODE (WSFGC)
- 2021 WASHINGTON STATE ENERGY CODE (WSEC)
- 2021 WASHINGTON STATE BUILDING CODE (WSBC)
MATERIALS, METHODS AND INSTALLATION SHALL COMPLY WITH THESE PROVISIONS.

2. WATER SYSTEM IS DESIGNED PER THE FOLLOWING PARAMETERS AND REQUIREMENTS:
-STATIC WATER PRESSURE TO FIXTURES SHALL NOT EXCEED 80 PSIG (60lb.2)
-DESIGNED MAXIMUM DOW VELOCITIES SHALL NOT EXCEED 8 FPS & DHW SHALL NOT EXCEED 5 FPS (610.6 and 610.12)
-PRESSURE LOSSES FOR IN-LINE DEVICES HAVE BEEN INCLUDED IN THE ABOVE PRESSURE CALCULATIONS (610.2)
-WATER SIZING IS AS PER APPENDIX A (Table 103.1)
-WATER CONNECTIONS TO MECHANICAL EQUIPMENT, STEAM PRODUCING EQUIPMENT, DISHWASHERS THAT INJECT DETERGENT INTO THE WATER LINE, CARBONATORS, OR ANY OTHER CONFIGURATION WHERE A CROSS CONNECTION OF THE MAIN WATER SYSTEM MAY OCCUR, A REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND ASSOCIATED DRAIN PIPING MUST BE PROVIDED.
-WATER DISINFECTION TEST SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 609.9 PRIOR TO FINAL APPROVAL OF PLUMBING PERMIT.
-ALL ITEMS IN THE DOMESTIC WATER DISTRIBUTION SYSTEM MUST SHOW COMPLIANCE WITH NSF-61 LEAD FREE REQUIREMENTS. DOCUMENTATION MUST BE AVAILABLE ON SITE.
-PROVIDE WATER PIPING IDENTIFICATION ON PIPING PER TABLE 601.3.2.
-LIMITATION OF HOT WATER TEMPERATURE TO PLUMBING FIXTURES SHALL BE IN ACCORDANCE WITH UPC CHAPTER 4 .

3. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET WHICH MAY BE REQUIRED. THE PLUMBING CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.

4. ALL PIPE SIZES NOTED ON DRAWINGS ARE MINIMUMS.

5. SLOPE ALL RAIN LEADER, STORM, AND WASTE PIPING AT 2% UNLESS OTHERWISE NOTED ON DRAWINGS. OBTAIN APPROVAL FROM CODE AUTHORITY BEFORE INSTALLING WASTE PIPING AT LESS THAN 2% (EVEN IF LESSER SLOPE IS INDICATED ON DRAWINGS).

6. HANGERS AND SUPPORTS FOR PIPING SHALL BE IN ACCORDANCE WITH SECTION 313 AND TABLES 313.3 AND 313.6 OF THE 2021 UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS.

7. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.

8. FOR EXACT ROUGH-IN LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.

9. PROVIDE STOPS OR ANGLE VALVES AT ALL FIXTURES

10. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.

11. PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR METALS.

12. CLEANOUTS SHALL BE INSTALLED SO THEY ARE EASILY ACCESSIBLE.

13. PLUMBING EQUIPMENT, VALVES AND TRAP PRIMERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS. UNLESS SHOWN ON ARCHITECTURAL DRAWINGS, REQUIRED ACCESS PANELS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.

14. FLOORS SHALL SLOPE TO FLOOR DRAINS WHERE DRAINAGE OCCURS ON A REGULAR BASIS. PLUMBER TO COORDINATE WITH GENERAL CONTRACTOR FOR EXACT ELEVATION OF DRAIN. (EXAMPLES TOILET ROOMS, KITCHENS AND LAUNDRY ROOMS)

15. THE PLUMBER SHALL PROVIDE AND LOCATE ALL REQUIRED FLOOR, WALL, AND FOOTING SLEEVES.

16. HEAT TRACING OF PIPING, WHERE INDICATED, SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR IS TO COORDINATE THE HEAT TRACE WIRING SUPPLY WITH THE ELECTRICAL CONTRACTOR.

17. TRENCHING, BACKFILLING, AND COMPACTING FOR UNDERGROUND PIPING SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR UNLESS STATED OTHERWISE IN CONTRACT DOCUMENTS.

18. PIPING BURIED IN THE SLAB TO HAVE A PROTECTIVE SLEEVE.

19. PROVIDE EARTHQUAKE RESTRAINT FOR PLUMBING PIPING AND EQUIPMENT IN ACCORDANCE WITH SECTION 1613 OF THE 2021 IBC AND ASCE 7.

20. VENTS FROM FLOOR MOUNTED FIXTURES SHALL RISE VERTICALLY TO AT LEAST 6" ABOVE THE FLOOD RIM OF THE FIXTURE, UNLESS STRUCTURAL CONDITIONS PROHIBIT A CONTINUOUS VENT. WHERE A "FLAT VENT" IS USED, IT SHALL BE INSTALLED WITH DRAINAGE FITTINGS AND SLOPE BACK TO THE FIXTURE AT STANDARD 2% SLOPE.

PIPING INSULATION SCHEDULE - WASHINGTON

PIPING TYPE	PIPE SIZE	INSULATION TYPE	INSULATION THICKNESS	CONDUCTIVITY RANGE
UNDERSIDE OF ROOF DRAIN BODIES	ALL	FIBERGLASS	1/2"	-
OVERHEAD RAIN LEADERS	ALL	FIBERGLASS	1/2"	-
VERTICAL RAIN LEADERS	NOT REQUIRED			
OVERFLOW RAIN LEADERS FIRST 10'	ALL	FIBERGLASS	1/2"	-
COLD WATER OVERHEAD AND EXPOSED TO SIGHT	ALL	FIBERGLASS	1/2"	0.21 - 0.27
COLD WATER WITHIN WALLS AND SHAFTS	NOT REQUIRED			
RECIRCULATED HOT WATER (105°F TO 140°F)	1/2" - 1-1/4"	FIBERGLASS	2"	0.21 - 0.28
	1-1/2" - 6"	FIBERGLASS	2-1/2"	0.21 - 0.28
UNCIRCULATED HOT WATER PIPING (105°F TO 140°F)	1/2" - 1-1/4"	FIBERGLASS	1"	0.21 - 0.28
	1-1/2" - 6"	FIBERGLASS	1-1/2"	0.21 - 0.28
RECIRCULATED HOT WATER (141°F TO 200°F)	1/2" - 1-1/4"	FIBERGLASS	2-1/2"	0.25 - 0.29
	1-1/2" - 6"	FIBERGLASS	3"	0.25 - 0.29
UNCIRCULATED HOT WATER PIPING (141°F TO 200°F)	1/2" - 1-1/4"	FIBERGLASS	1-1/2"	0.25 - 0.29
	1-1/2" - 6"	FIBERGLASS	2"	0.25 - 0.29
HOT WATER UNDERGROUND	1/2" - 2"	THERMA-CEL	1"	0.21 - 0.28
HORIZONTAL COIL CONDENSATE PIPING	ALL	ARMAFLEX	1/2"	

- ALL HOT WATER PIPING INSULATION SHALL MEET THE REQUIREMENTS OF THE WASHINGTON STATE ENERGY CODE, 2021 EDITION, TABLE C403.10.3.
- ALL PIPING INSULATION AND COVERINGS SHALL HAVE AN ASTM FLAME SPREAD RATING OF 25 OR LESS AND AN ASTM SMOKE DEVELOPED RATING OF 50 OR LESS.
- ELASTOMERIC INSULATIONS WHICH MEET THESE RATINGS MAY BE USED AS A SUBSTITUTE FOR FIBERGLASS.
- PROVIDE A VAPOR BARRIER COVERING ON ALL ROOF DRAIN, RAIN LEADER, AND COLD WATER PIPING INSULATION.
- INSULATE THE OVERFLOW DRAIN BODY AND P

PROJECT RESPONSIBILITY MATRIX

UNIT NO.	DESCRIPTION	BMS		NON BMS					PROVIDED BY	INSTALLED BY	POWER WIRING BY	CONTROLS WIRING BY	FIRE ALARM WIRING BY	TEST AND BALANCE BY	NOTES
		S/S	TC	T'STAT	INTERLOCK	24 HOUR	FIRE/LIFE SAFETY	OTHER							
PART A: NEW PLUMBING EQUIPMENT															
A1	GREASE INTERCEPTORS	-	-	-	-	-	-	-	PC	PC	-	-	-	PC	1,3,13
PART B: PLUMBING EQUIPMENT ANCILLARIES															
B1	ARCHITECTURAL ACCESS DOORS/PANELS FOR PLUMBING EQUIPMENT ACCESS	-	-	-	-	-	-	-	GC	GC	-	-	-	-	
B2	PIPE SLEEVES	-	-	-	-	-	-	-	PC	PC	-	-	-	-	
B3	FIRE SAFING AROUND PLUMBING EQUIPMENT: PIPING, ETC.	-	-	-	-	-	-	-	PC	PC	-	-	-	-	
B4	CAULKING FOR WEATHER PROTECTION AROUND EXTERIOR PLUMBING DEVICES (PIPE PENETRATIONS, ETC.)	-	-	-	-	-	-	-	GC	GC	-	-	-	-	
B5	FLOOR DRAINS	-	-	-	-	-	-	-	PC	PC	-	-	-	PC	1,3,8
B6	WALL/CEILING SOUND MITIGATION	-	-	-	-	-	-	-	GC	GC	-	-	-	-	
B7	NATURAL GAS SHUTOFF VALVE FOR FIRE SUPRESSION SYSTEM	-	-	-	-	-	-	-	PC	PC	EC	CC	FAC	FAC	1,3,5
Part C: PLUMBING MISC															
C1	PLUMBING FIXTURES, VALVES, BACKFLOW DEVICES, WATER TANKS, TRAP PRIMERS, HYDRANTS AND HOSE BIBBS	-	-	-	-	-	-	-	PC	PC	EC	-	-	PC	1,2,3,4,9
C2	IMPORT AND EXPORT OF SOILS	-	-	-	-	-	-	-	GC	GC	-	-	-	-	
C3	PIPE BEDDING	-	-	-	-	-	-	-	PC	PC	-	-	-	-	10
C4	SUBGRADE WALL PENETRATIONS BY PIPING	-	-	-	-	-	-	-	PC	PC	-	-	-	-	
C5	EQUIPMENT ACCESS PLATFORMS & WALK-ON MATTS FOR EQUIMENT ACCESS	-	-	-	-	-	-	-	GC	GC	-	-	-	-	
C6	ROOF AND WATERPROOF MEMBRANES PENETRATIONS BY PLUMBING PIPING	-	-	-	-	-	-	-	PC	PC	-	-	-	-	7
C7	UTILITY PIPING TO 5 FEET OUTSIDE OF THE BLDG	-	-	-	-	-	-	-	PC	PC	-	-	-	-	6,11,12
Part D: DEMOLITION															
D1	DEMOLITION AND MAKE SAFE OF EXISTING PLUMBING EQUIPMENT AND ASSOCIATED UTILITIES	-	-	-	-	-	-	-	PC	PC	EC	CC	FAC	-	-
D2	**DEMOLITION AND MAKE SAFE OF EXISTING GREASE INTERCEPTOR AND ASSOCIATED...**	-	-	-	-	-	-	-	GC	GC	-	-	-	-	-

ABBREVATIONS:

AFF	**ABOVE FINISHED FLOOR**	**GC**	**GENERAL CONTRACTOR & OTHER TRADES**	**TC**	**TIME CLOCK**
CC	**CONTROL CONTRACTOR**	**PC**	**PLUMBING CONTRACTOR**	**VAV**	**VARIABLE AIR**
EC	**ELECTRICAL CONTRACTOR**	**KEC**	**KITCHEN EQUIPMENT CONTRACTOR**	**VFD**	**VARIABLE FREQUENCY DRIVE**
FAC	**FIRE ALARM CONTRACTOR**	**S/S**	**START/STOP**	**BMS**	**BUILDING MANAGEMENT SYSTEM**
MC	**MECHANICAL CONTRACTOR**				

NOTES:

1. COORDINATE PROPER ACCESS FOR INSTALLATION AND MAINTENANCE WITH ARCHITECT & GC.
2. PC TO COORDINATE LOCATIONS OF ACCESS DOORS, GC TO FURNISH AND INSTALL ACCESS DEVICES.
3. GC TO ALTER CONSTRUCTION TO MEET CODE REQUIRED CLEARANCES AND DIRECT OTHER TRADES TO MEET INSTALLATION REQUIREMENTS.
4. EC TO PROVIDE POWER AND SERVICE DISCONNECT SWITCH WHEN REQUIRED.
5. EC TO FURNISH AND INSTALL NATURAL GAS EMERGENCY SHUTDOWN SWITCHES, POWER AND WIRING FOR KITCHEN HOOD FIRE SUPRESSION SYSTEM.
6. REFRIGERANT PIPING PROVIDED AND INSTALLED BY KEC. MC TO PROVIDE AND INSTALL CONDENSATE PIPING FROM INDOOR EVAPORATOR COIL TO DRAIN.
7. ROOFING AND FLASHING BY GC.
8. PC TO COORDINATE LOCATION, TOP OF FLOOR DRAIN ELEVATION AND MEMBRANES IF REQUIRED WITH GC. SLOPE TO DRAIN BY GC.
9. PC TO COORDINATE LOCATION OF ELEVATION AND OTHER FIXTURE REQUIREMENTS WITH GC.
10. PIPE BEDDING MATERIAL AND PIPE BEDDING IS BY PC. CLOSURE OF TRENCH BY GC.
11. PIPE PENETRATION AND SEAL BY PC.
12. UTILITY PIPING PENETRATING THE BUILDING TO WITHIN 5 FEET PERPENDICULAR FROM THE BUILDING BY PC. PC TO COORDINATE LOCATIONS AND ELEVATIONS WITH GC.
13. GC SHALL CONSTRUCT CONCRETE FORMING AND FRAMING AS REQUIRED TO SUPPORT PLUMBING EQUIPMENT. PC SHALL COORDINATE SIZES AND LOCATIONS WITH GC.

FOOD SERVICE EQUIPMENT PLUMBING SCHEDULE - PHASE 2 AREA C

NO.	DESCRIPTION	DRAINAGE						COLD WATER					HOT WATER					NATURAL GAS			REMARKS
		SANITARY WASTE (DIRECT)	SANITARY WASTE (INDIRECT)	GREASE WASTE (DIRECT)	GREASE WASTE (INDIRECT)	DRAIN DISCHARGE (GPM)	VENT SIZE	PIPE SIZE	FILTERED WATER PIPE SIZE	GPM	TEMP (°F)	PRESSURE (PSIG)	PIPE SIZE	GPM	GPH	TEMP (°F)	PRESSURE (PSIG)	PIPE SIZE	MBH INPUT	PRESSURE (INCH WC)	
C11	PASTA COOKER							1/2"													
C13	COUNTER TOP GRIDDLE																	3/4"	120	6	
C15	COUNTER TOP CHAR BROILER																	1/2"	76	8-14	
C16	COUNTER TOP 6 BURNER RANGE																	1/2"	180	8-14	
C17	POT FILLER							1/2"													
C33.1	HAND SINK W/ SIDE SPLASHES	2"						1/2"					1/2"								PROVIDE W/ "MV-1" ASSE1070 THERMOSTATIC MIXING VALVE.
C45	HAND SINK W/ SIDE SPLASHES	2"						1/2"					1/2"								PROVIDE W/ "MV-1" ASSE1070 THERMOSTATIC MIXING VALVE.
C46	COFFEE BREWER W/ URNS								1/4"												FILTERED WATER FROM C47.
C47	WATER FILTERS							3/8"													CONNECT FILTERED WATER TO C46 & C54.

NOTES:
1. THE ABOVE SCHEDULE CONTAINS OWNER FURNISHED FOOD SERVICE EQUIPMENT & FIXTURES THAT REQUIRE PLUMBING UTILITIES. REFER TO THE FOOD SERVICE / KITCHEN CONSULTANT'S DOCUMENTS FOR ROUGH-IN REQUIREMENTS & EXACT LOCATIONS OF ALL FOOD SERVICE FIXTURES & EQUIPMENT.
2. WHERE INDIRECT DRAINS ARE REQUIRED, CONTRACTOR MUST ROUTE INDIRECT DRAIN PIPING FROM FIXTURES & EQUIPMENT TO ADJACENT FLOOR RECEPTOR(S) AS REQUIRED. INDIRECT DRAIN DISCHARGE OVER FLOOR RECEPTOR(S) MUST CONTAIN APPROVED AIR BREAK(S). CONTRACTOR MUST PROVIDE A MINIMUM OF 1" THICK INSULATION (WITH APPROVED SANITARY BARRIER WRAP) FOR CONDENSATE AND / OR REFRIGERATED WASTE PIPING DISCHARGING INTO INDIRECT RECEPTORS TO PREVENT SWEATING (I.E. ALL PIPING WITH A TEMPERATURE LOWER THAN 60°F). REFER TO FOOD SERVICE / KITCHEN CONSULTANT'S DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
3. PLASTIC OR STAINLESS STEEL MATERIAL MUST BE USED FOR WASTE PIPING INSTALLED TO RECEIVE CARBONATED LIQUID WASTE. THE PLASTIC OR STAINLESS STEEL MATERIAL MUST BE INSTALLED TO A POINT DOWNSTREAM OF THE NEAREST FREQUENTLY USED DRAIN BRANCH TO ENSURE PROPER DILUTION OF THE CARBONATED LIQUID WASTE & PREVENT DOWNSTREAM CORROSION OF INCOMPATIBLE PIPE MATERIAL.
4. PROVIDE EMERGENCY DRAIN PAN ASSEMBLY DIRECTLY UNDERNEATH ALL DRAINAGE PIPING LOCATED ABOVE FOOD SERVICE AREAS. PROVIDE MINIMUM 1" COPPER DRAIN PIPE CONNECTION AT DRAIN PAN LOW POINTS, & ROUTE TO NEAREST FLOOR RECEPTOR WITH APPROVED AIR GAP & EMERGENCY SIGNAGE.
5. PROVIDE DEDICATED ISOLATION VALVE & UNIONS AT UTILITY CONNECTIONS FOR EACH APPLIANCE & EQUIPMENT ITEM IN ADDITION TO SPECIALTIES & DEVICES LISTED ABOVE.
6. PROVIDE WATER HAMMER ARRESTER AT ALL WATER SUPPLY CONNECTIONS TO EQUIPMENT.

FOOD SERVICE EQUIPMENT PLUMBING SCHEDULE - PHASE 2 AREA D

NO.	DESCRIPTION	DRAINAGE						COLD WATER					HOT WATER					NATURAL GAS			REMARKS
		SANITARY WASTE (DIRECT)	SANITARY WASTE (INDIRECT)	GREASE WASTE (DIRECT)	GREASE WASTE (INDIRECT)	DRAIN DISCHARGE (GPM)	VENT SIZE	PIPE SIZE	FILTERED WATER PIPE SIZE	GPM	TEMP (°F)	PRESSURE (PSIG)	PIPE SIZE	GPM	GPH	TEMP (°F)	PRESSURE (PSIG)	PIPE SIZE	MBH INPUT	PRESSURE (INCH WC)	
D1	HAND SINK W/ SIDE SPLASHES	2"						1/2"					1/2"								PROVIDE W/ "MV-1" ASSE1070 THERMOSTATIC MIXING VALVE.
D17	PASTA COOKER							1/2"													
D18	POT FILLER							1/2"													
D23	COUNTER TOP 6 BURNER RANGE																	3/4"	180	6	
D25	COUNTER TOP GRIDDLE																	1/2"	120	8-14	
D27	COUNTER TOP CHAR BROILER																	1/2"	76	8-14	
D45	WATER FILTER								1/4"												CONNECT FILTERED WATER TO D46.
D46	COFFEE BREWER W/ URNS								1/4"												FILTERED WATER FROM D45.
D51	HAND SINK W/ PEDESTAL BASE	2"						1/2"					1/2"								PROVIDE W/ "MV-1" ASSE1070 THERMOSTATIC MIXING VALVE.
D61	S/S STANDARD FLOOR TROUGH W/ GRATE			4"			2"														
D63	CUBE ICE MAKER	3/4"							1/2"												PROVIDE WITH 1/2" RPBA "BFP-01" & WATER HAMMER ARRESTER. IW PIPE TO RECEPTOR WITH APPROVED AIR GAP.
D64	WATER FILTER							1/2"													CONNECT FILTERED WATER TO D74.
D68	AMBIENT CARBONATOR							1/2"													FILTERED WATER FROM D71.
D71	WATER FILTER							1/2"													CONNECT FILTERED WATER TO D68.
D74	ICE CUBE MAKER							1/2"													FILTERED WATER FROM D64.

NOTES:
1. THE ABOVE SCHEDULE CONTAINS OWNER FURNISHED FOOD SERVICE EQUIPMENT & FIXTURES THAT REQUIRE PLUMBING UTILITIES. REFER TO THE FOOD SERVICE / KITCHEN CONSULTANT'S DOCUMENTS FOR ROUGH-IN REQUIREMENTS & EXACT LOCATIONS OF ALL FOOD SERVICE FIXTURES & EQUIPMENT.
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4. PROVIDE EMERGENCY DRAIN PAN ASSEMBLY DIRECTLY UNDERNEATH ALL DRAINAGE PIPING LOCATED ABOVE FOOD SERVICE AREAS. PROVIDE MINIMUM 1" COPPER DRAIN PIPE CONNECTION AT DRAIN PAN LOW POINTS, & ROUTE TO NEAREST FLOOR RECEPTOR WITH APPROVED AIR GAP & EMERGENCY SIGNAGE.
5. PROVIDE DEDICATED ISOLATION VALVE & UNIONS AT UTILITY CONNECTIONS FOR EACH APPLIANCE & EQUIPMENT ITEM IN ADDITION TO SPECIALTIES & DEVICES LISTED ABOVE.
6. PROVIDE WATER HAMMER ARRESTER AT ALL WATER SUPPLY CONNECTIONS TO EQUIPMENT.

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DANIEL J. JANKOVICH — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

7/8/2025

PHASE 2 PERMIT SET 07/10/2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE

SCHEDULES - PLUMBING

SHEET NUMBER

TP0.03

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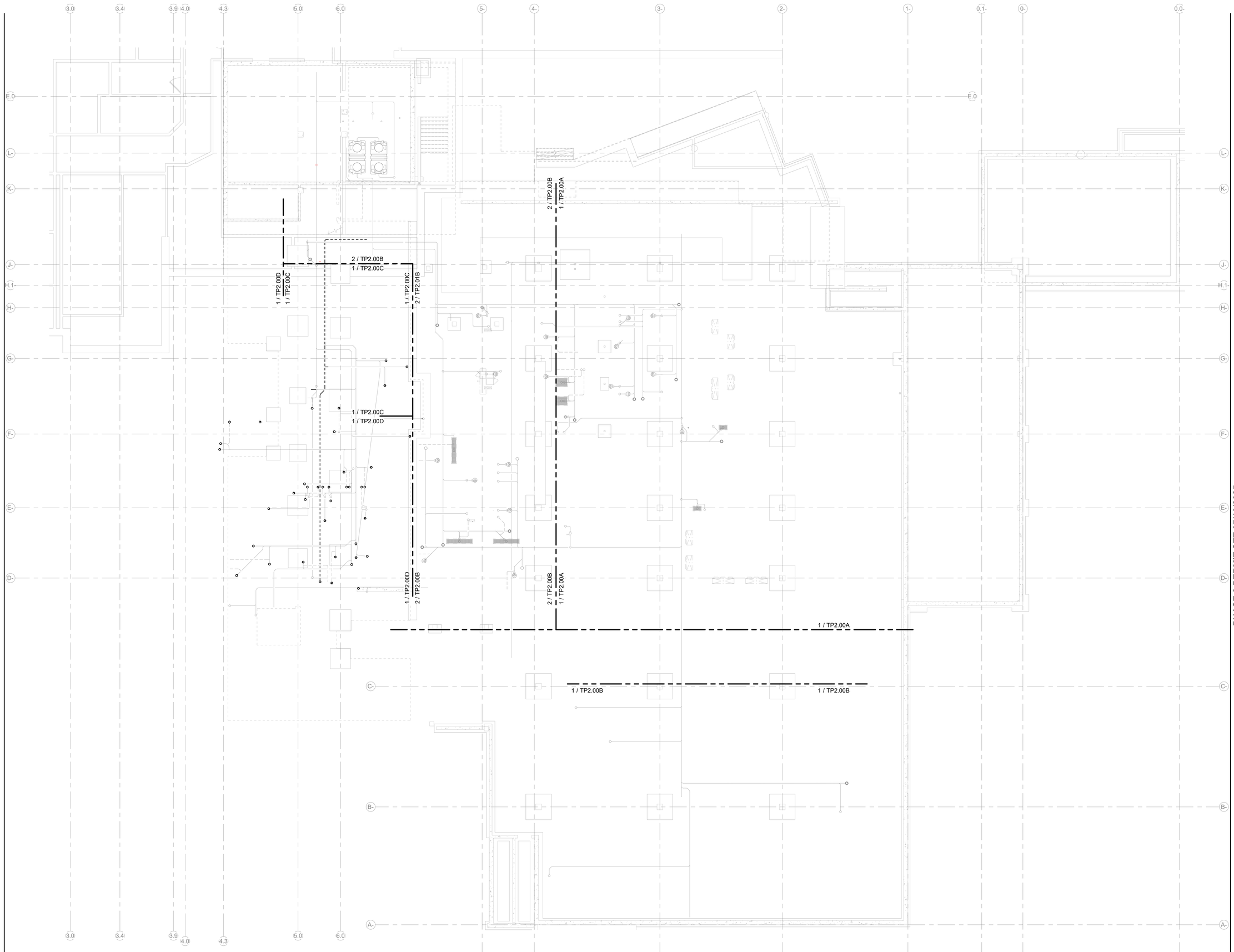

1 UNDERGROUND - PLUMBING DEMO - OVERALL
SCALE: 1/8" = 1'-0"

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE
LEVEL 01 DEMOLITION UNDERGROUND OVERALL PLAN - PLUMBING

SHEET NUMBER
DP2.00

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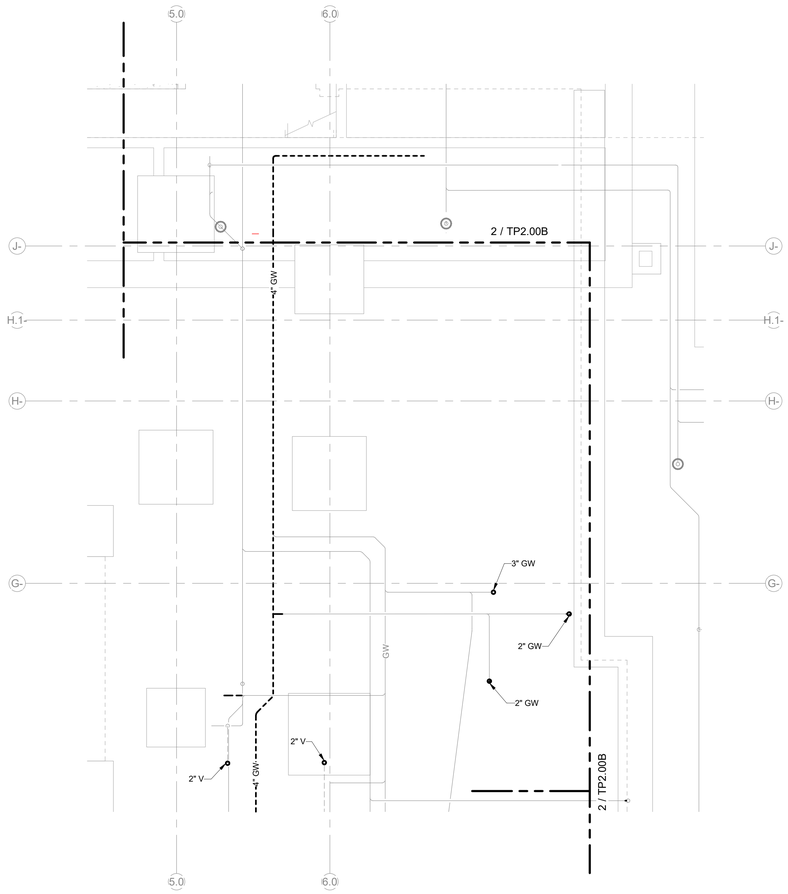

1 UNDERGROUND - PLUMBING DEMO - AREA C

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

GENERAL NOTES:

1. CUT AND CAP ALL EXISTING WASTE STUBS 6-INCHES BELOW SLAB. PATCH FLOOR TO MATCH EXISTING. COORDINATE PATCHING WITH ARCHITECTURAL.

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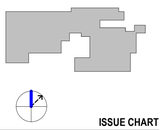

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE

LEVEL 01 DEMOLITION UNDERGROUND PLAN - PLUMBING - AREA C

SHEET NUMBER

DP2.00C

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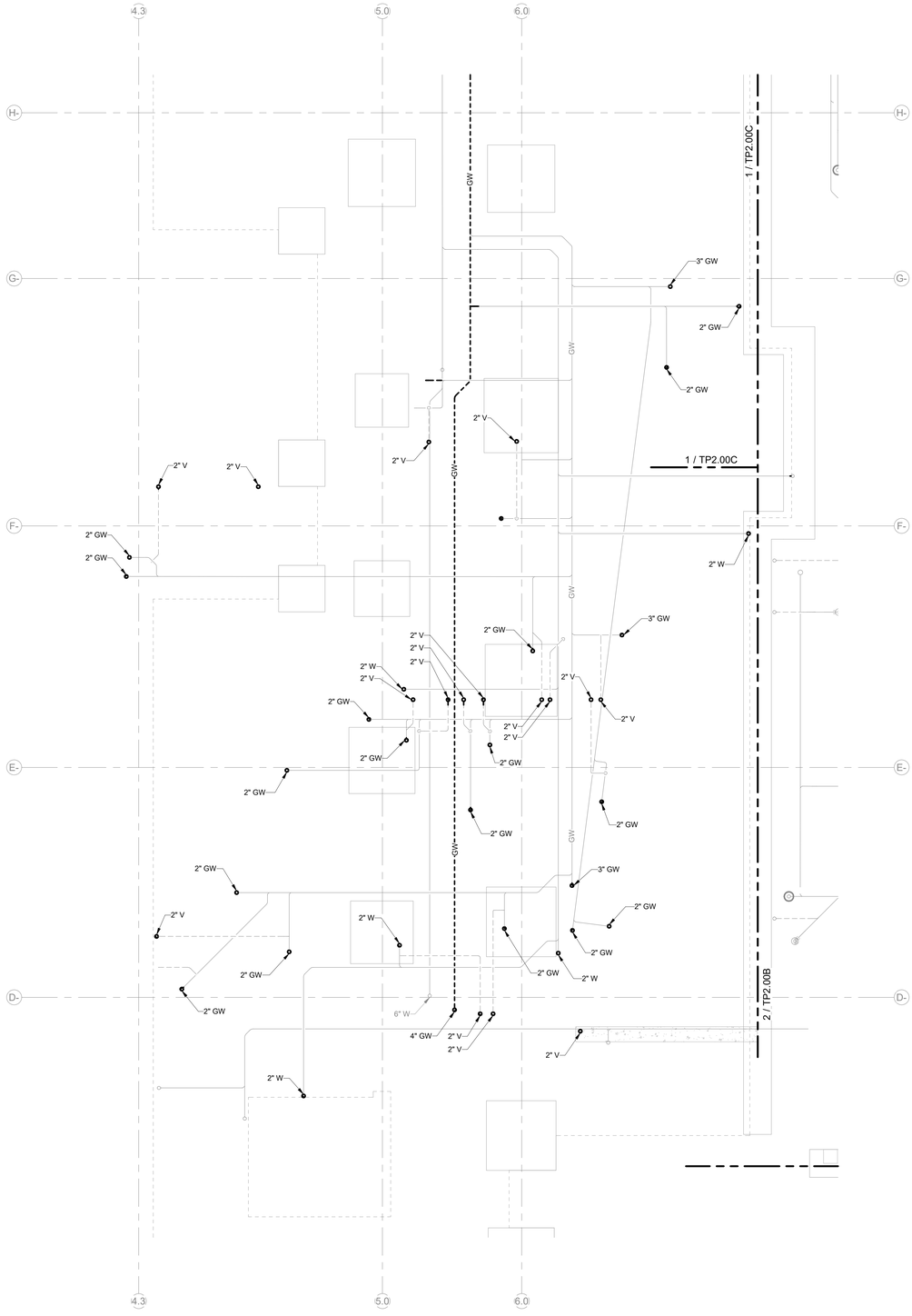

1 UNDERGROUND - PLUMBING DEMO - AREA D
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. CUT AND CAP ALL EXISTING WASTE STUBS 6-INCHES BELOW SLAB. PATCH FLOOR TO MATCH EXISTING. COORDINATE PATCHING WITH ARCHITECTURAL.

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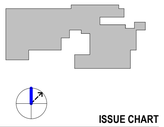

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE

LEVEL 01 DEMOLITION UNDERGROUND PLAN - PLUMBING - AREA D

SHEET NUMBER

DP2.00D

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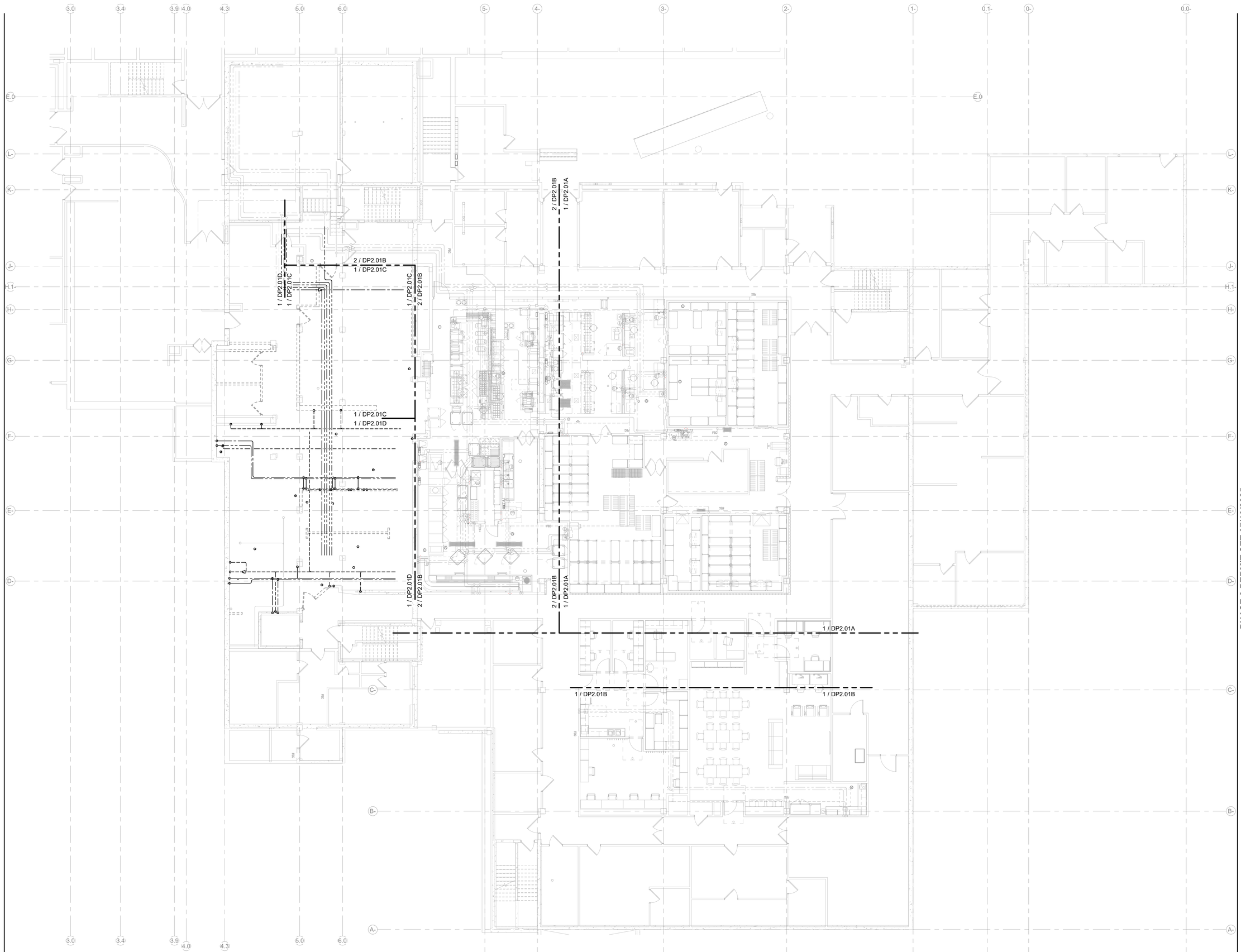

1 LEVEL 01 - PLUMBING DEMO - OVERALL PHASE 2
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PHASE 2 PERMIT SET 07/10/2025

MultiCare
Good Samaritan
Hospital Kitchen
401 15th Ave SE,
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MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

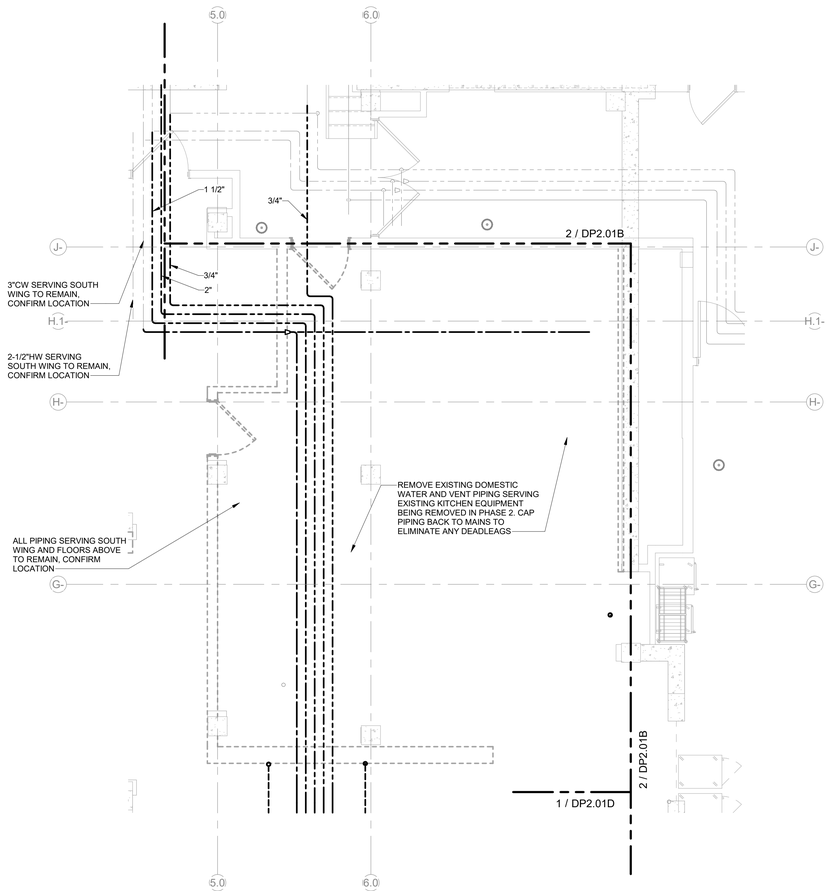
TITLE

LEVEL 01 DEMOLITION - OVERALL FLOOR PLAN - PLUMBING

SHEET NUMBER

DP2.01

7/8/2025 3:18:36 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/PLUM-MultiCare-Kitchen-R25.rvt



1 LEVEL 01 - PLUMBING DEMO - AREA C

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

GENERAL NOTES:

1. CUT AND CAP ALL EXISTING WASTE STUBS IN WALL OR 6-INCHES BELOW SLAB. PATCH WALL/FLOOR TO MATCH EXISTING. COORDINATE PATCHING WITH ARCHITECTURAL.
2. CONTRACTOR TO CONFIRM WITH ENGINEER PRIOR TO ANY REMOVAL OF PIPING NOT SERVING EXISTING KITCHEN FIXTURES OR EQUIPMENT.

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

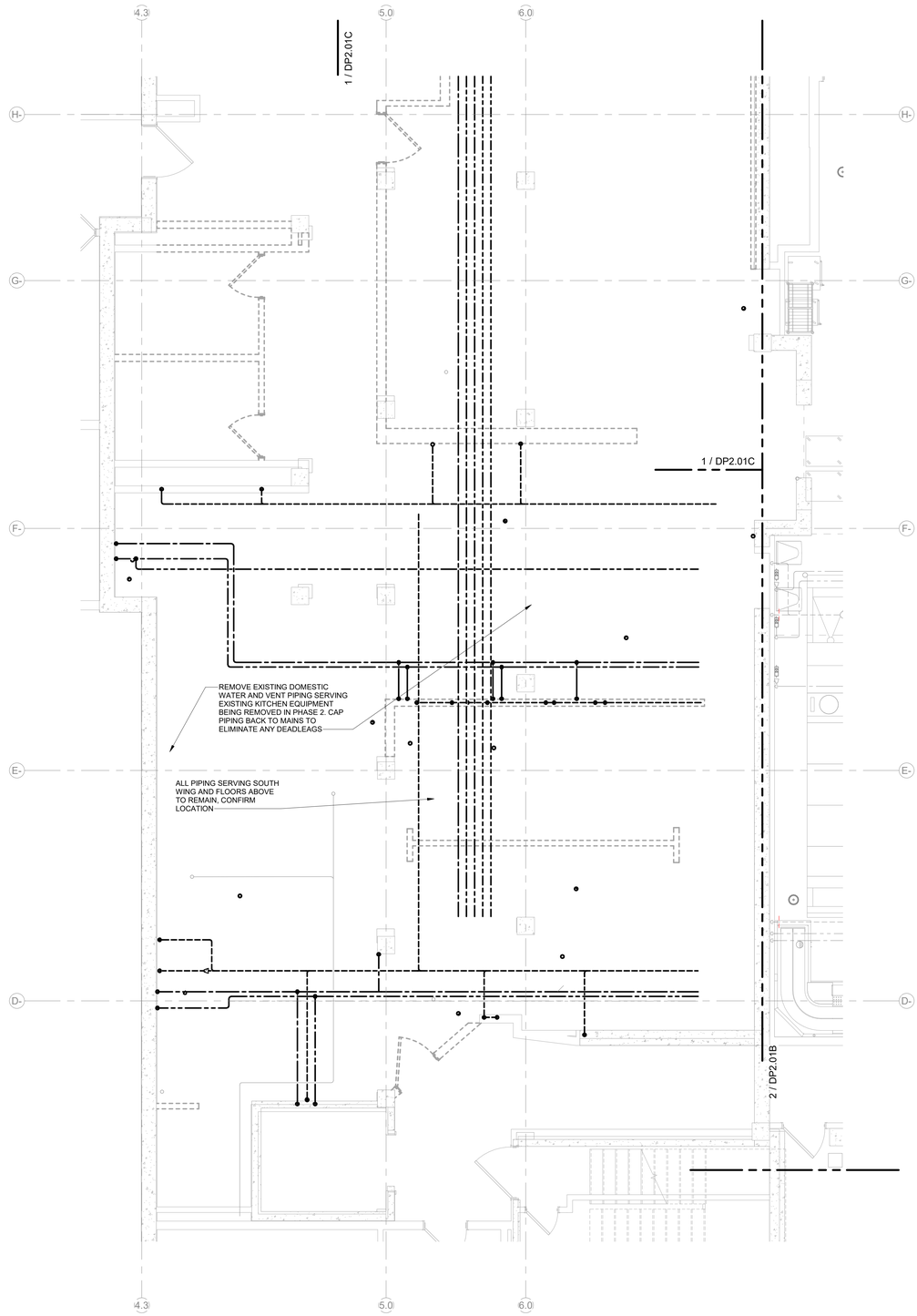
TITLE

LEVEL 01 DEMOLITION FLOOR PLAN - PHASE 2 AREA C - PLUMBING

SHEET NUMBER

DP2.01C

7/8/2025 3:18:38 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/PLUM-MultiCare-Kitchen-R25.rvt



1 LEVEL 01 - PLUMBING DEMO - AREA D

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

GENERAL NOTES:

1. CUT AND CAP ALL EXISTING WASTE STUBS IN WALL OR 6-INCHES BELOW SLAB. PATCH WALL/FLOOR TO MATCH EXISTING. COORDINATE PATCHING WITH ARCHITECTURAL.
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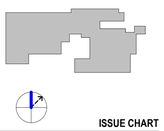
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE

LEVEL 01 DEMOLITION FLOOR PLAN - PHASE 2 AREA D - PLUMBING

SHEET NUMBER

DP2.01D

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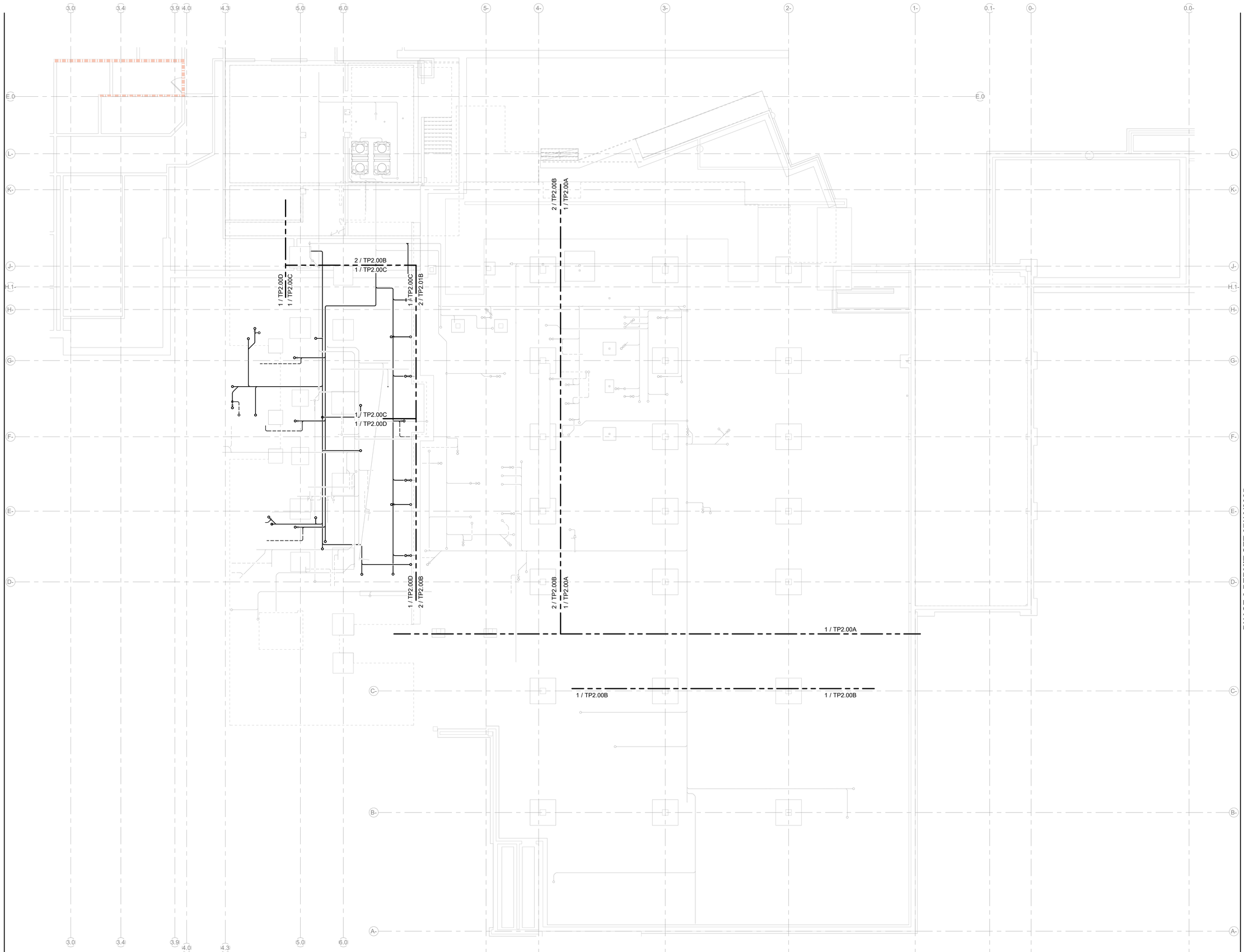

1 UNDERGROUND - PLUMBING - OVERALL PHASE 2
SCALE: 1/8" = 1'-0"

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MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE

LEVEL 01 OVERALL UNDERGROUND PLAN - PLUMBING

SHEET NUMBER

TP2.00

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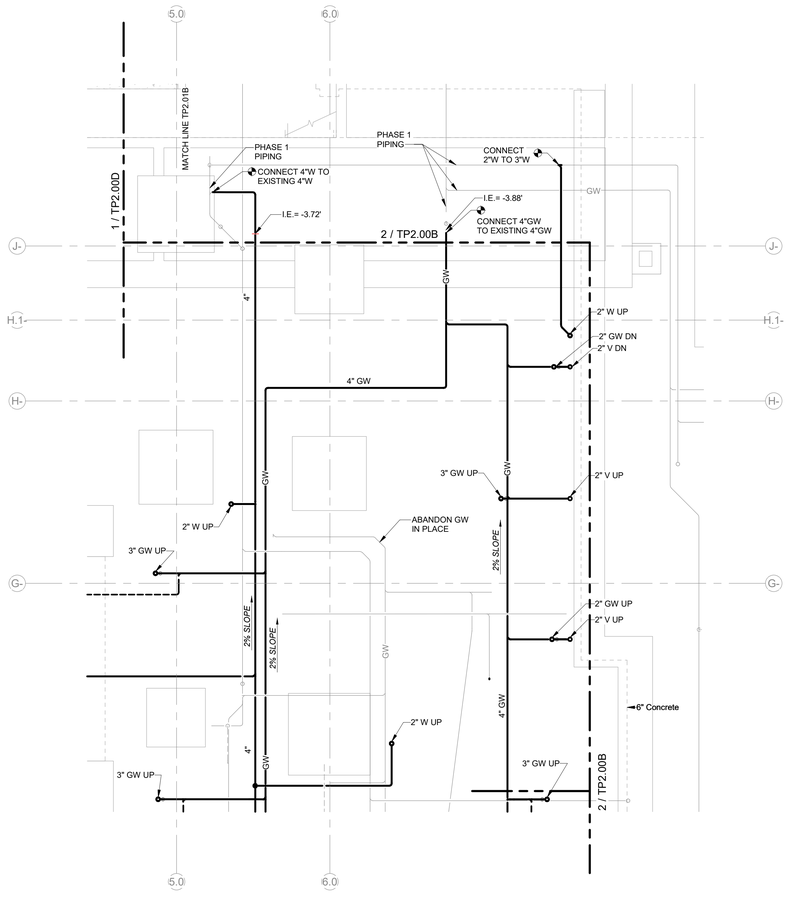

1 UNDERGROUND - PLUMBING - AREA C

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

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE
LEVEL 01 UNDERGROUND PLAN - PHASE 2 AREA C - PLUMBING

SHEET NUMBER
TP2.00C

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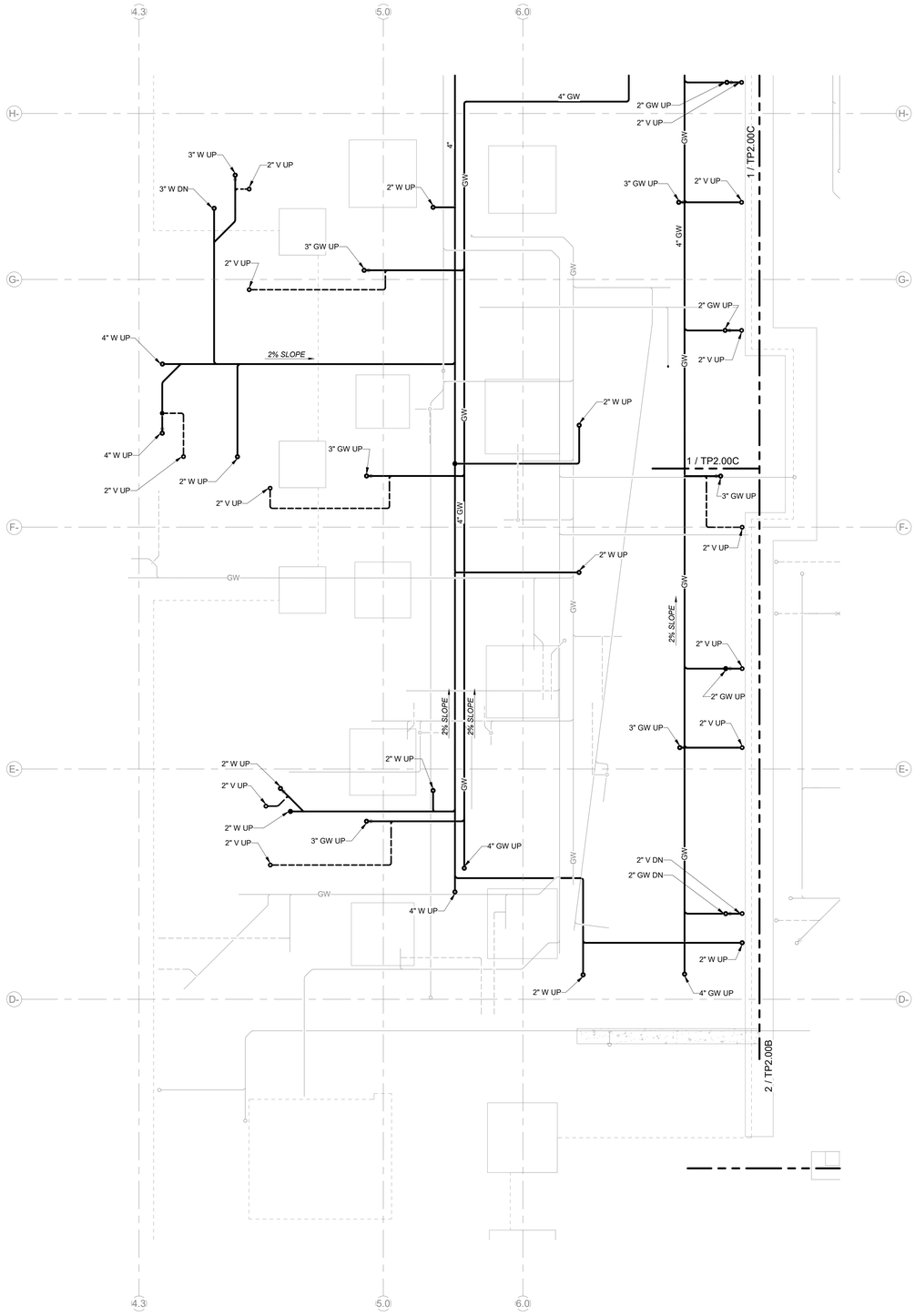

1 UNDERGROUND - PLUMBING - AREA D

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

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE
LEVEL 01 UNDERGROUND PLAN - PHASE 2 AREA D - PLUMBING

SHEET NUMBER
TP2.00D

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FIRE & SMOKE RATING LEGEND

- EXISTING 1HR FIRE BARRIER
- EXISTING 2HR FIRE BARRIER
- NEW 1HR RATED FIRE BARRIER
- NEW 2HR RATED FIRE BARRIER
- EXISTING 1HR RATED SMOKE BARRIER
- EXISTING SMOKE PARTITION
- NEW 1HR RATED SMOKE BARRIER
- NEW SMOKE PARTITION

2 / TP2.01B
1 / TP2.01C
1 / TP2.01D
2 / TP2.01A
1 / TP2.01A

1 LEVEL 01 - PLUMBING - OVERALL PHASE 2

SCALE: 1/8" = 1'-0"

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
Job Number		7725-4055

TITLE

LEVEL 01 OVERALL FLOOR PLAN - PLUMBING

SHEET NUMBER

TP2.01

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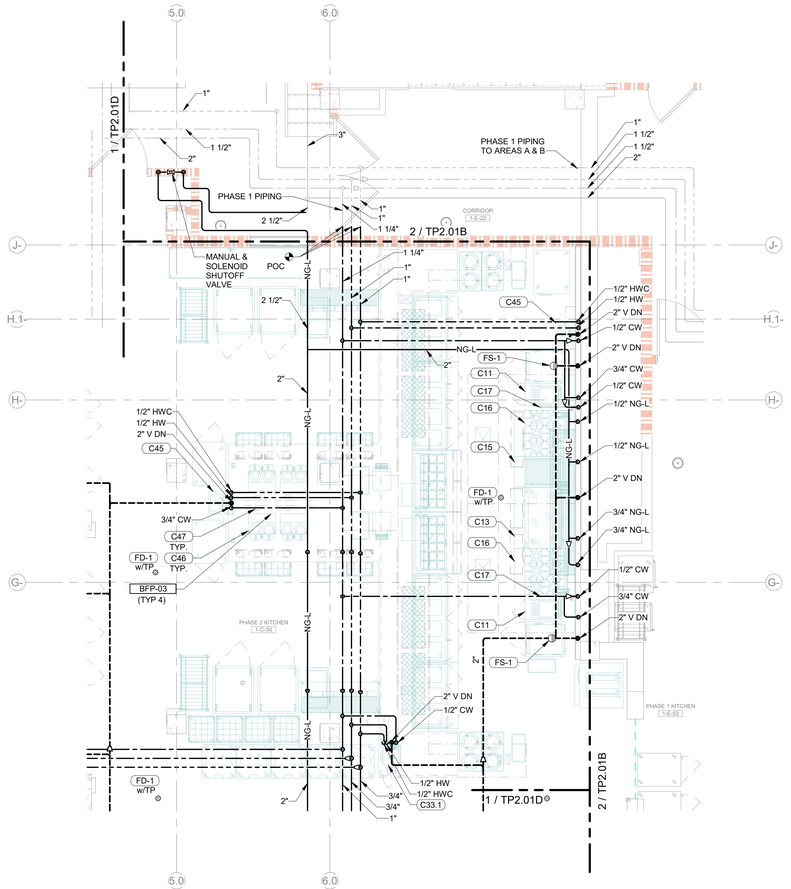

1 LEVEL 01 - PLUMBING - AREA C

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

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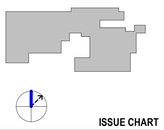

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE

LEVEL 01 FLOOR PLAN - PHASE 2 AREA C - PLUMBING

SHEET NUMBER

TP2.01C

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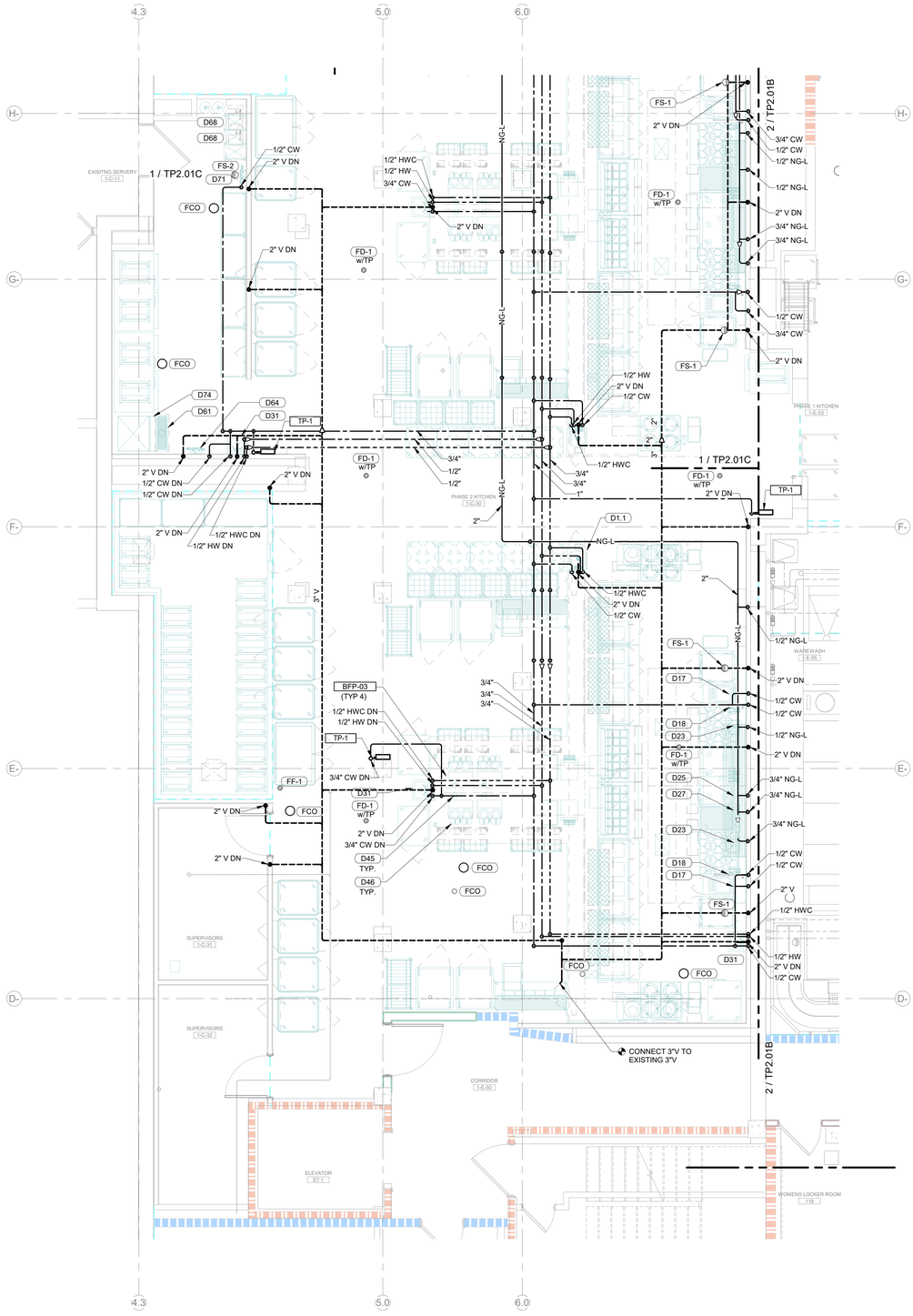

1 LEVEL 01 - PLUMBING - AREA D

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

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
Job Number	7725-4055	

TITLE

LEVEL 01 FLOOR PLAN - PHASE 2 AREA D - PLUMBING

SHEET NUMBER

TP2.01D

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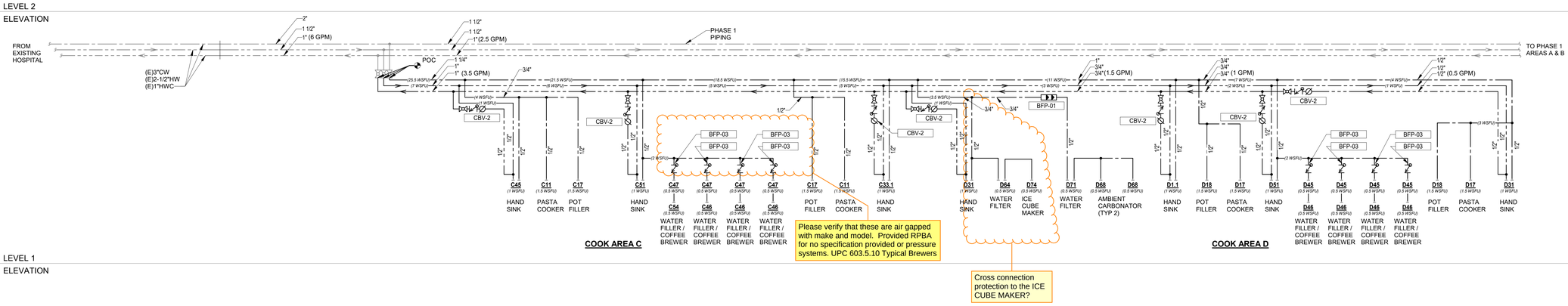
ROOF ELEVATION

LEVEL 5 ELEVATION

LEVEL 4 ELEVATION

LEVEL 3 ELEVATION

LEVEL 2 ELEVATION



LEVEL 1 ELEVATION

BASEMENT ELEVATION

1 DOMESTIC WATER RISER - PHASE 2

SCALE: 1/8" = 1'-0"

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE

DOMESTIC WATER RISER

SHEET NUMBER

TP4.01B

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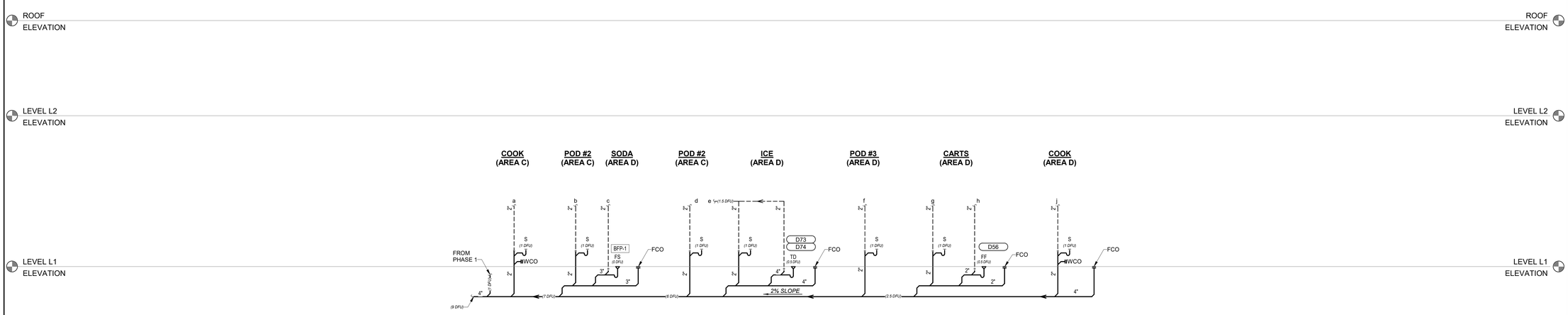
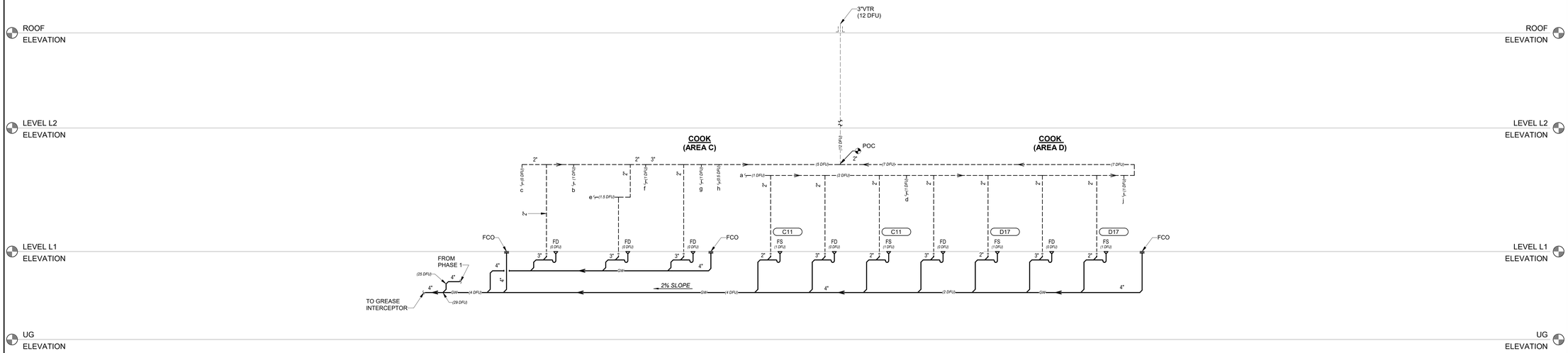


2 SANITARY WASTE AND VENT RISER DIAGRAM (PHASE 2)

SCALE: 1/8" = 1'-0"

NOTE:

1) SEE PHASE 1 DWG TP4.02A FOR CONTINUATIONS.



NOTE:

1) SEE PHASE 1 DWG TP4.02A FOR CONTINUATIONS.

1 GREASE WASTE AND VENT RISER DIAGRAM (PHASE 2)

SCALE: 1/8" = 1'-0"

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
Job Number	7725-4055	

TITLE

WASTE-VENT-GREASE RISER

SHEET NUMBER

TP4.02B

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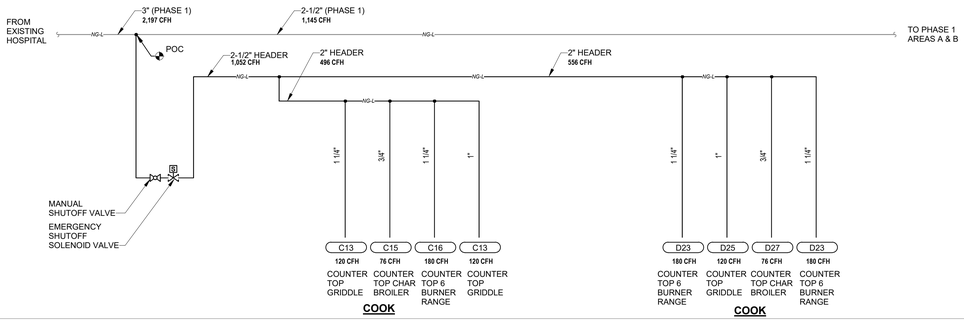
LEVEL 2
ELEVATION

LEVEL 1
ELEVATION

BASEMENT
ELEVATION



NATURAL GAS PIPING SIZED PER LONGEST LENGTH METHOD USING THE 150 FOOT COLUMN.
INLET PRESSURE: LESS THAN 2 PSI
PRESSURE DROP: 0.5 in w.c.
SPECIFIC GRAVITY: 0.60

1 NATURAL GAS RISER - PHASE 2
SCALE: 1/8" = 1'-0"

Perkins&Will

1301 5th Ave
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WA 98101
t +1206381600
www.perkinswill.com

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ELECTRICAL
EBD SERVICES
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Seattle, WA 98168

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MacDonald-Miller
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17930 Intl. Blvd. Suite,120 SeaTac, WA 98188
Phone: 206-763-9400 www.macmiller.com

DANIEL J. JACOBS
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

7/8/2025

PHASE 2 PERMIT SET 07/10/2025

MultiCare Good Samaritan Hospital Kitchen

401 15th Ave SE,
Puyallup,
WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE
Job Number	7725-4055	

TITLE

NATURAL GAS RISER

SHEET NUMBER

TP4.03B

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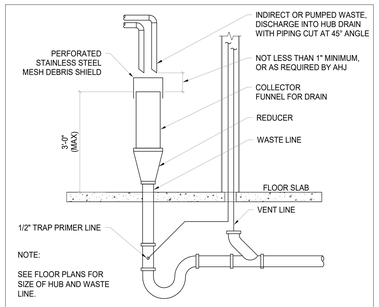
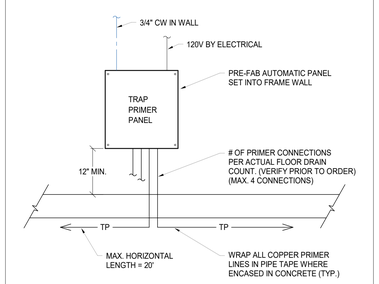


2 / P6.01 OPEN HUB DRAIN WASTE PIPING

N.T.S.



1 / P6.01 ELECTRONIC TRAP PRIMER MANIFOLD

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7/8/2025

PHASE 2 PERMIT SET 07/10/2025

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number 7725-4055

TITLE

PLUMBING DETAILS

SHEET NUMBER

P6.01

7/8/2025 3:19:25 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/PLUM-MultiCare-Kitchen-R25.rvt

LIGHT FIXTURES

CIRCUITS EMERGENCY NORMAL — STD=DRAWN TO SCALE · NTS=NOT TO SCALE · LTS=LENGTH ONLY TO SCALE, REFER TO FUTURE SCHEDULE

- a — LOWER-CASE LETTER DENOTES SWITCH LEG
- RECESSED, DTS
- SURFACE-MOUNTED, DTS
- STRIP, LTS
- WALL-MOUNTED, LTS
- RECESSED DOWNLIGHT, DTS
- SURFACE-MOUNTED DOWNLIGHT, DTS
- PENDANT-MOUNTED, DTS
- LINEAR PENDANT-MOUNTED, LTS
- WALL-MOUNTED, NTS
- WALL-MOUNTED, VERTICALLY ORIENTED, NTS
- N/A — CONTINUOUS LED TAPE-LIGHT, LTS
- EXIT — N/A — EXIT SIGN, FILLED SIDE ILLUMINATED, DIRECTIONAL ARROWS AS INDICATED, NTS
- N/A — EMERGENCY BATTERY PACK, NTS
- N/A — EXIT WITH EMERGENCY BATTERY PACK, NTS

LIGHTING CONTROLS

- $a — LOWER-CASE LETTER DENOTES CIRCUIT CONTROLLED
- $ — SINGLE-POLE SWITCH
- $D — DIMMER SWITCH
- $2 — DOUBLE-POLE SWITCH
- $3 — 3-WAY SWITCH
- $4 — 4-WAY SWITCH
- $K — KEY-OPERATED SWITCH
- $LV — MOMENTARY CONTACT, LOW-VOLTAGE SWITCH
- $O — OCCUPANCY SENSOR SWITCH
- $T — TIMECLOCK
- $PC — PHOTOCELL SWITCH
- OS — OCCUPANCY SENSOR, CEILING-MOUNTED
- PC — PHOTOCELL CONTROL, WALL-MOUTED & CEILING-MOUNTED
- PS — PHOTO SENSOR CONTROL, CEILING-MOUNTED

FIRE ALARM

- FIRE SERVICE PHONE STATION
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- HEAT DETECTOR
- F — MANUAL PULL STATION
- STROBE, WALL-MOUNTED & CEILING-MOUNTED
- SPEAKER, WALL-MOUNTED & CEILING-MOUNTED
- HORN, WALL-MOUNTED & CEILING-MOUNTED
- SPEAKER WITH STROBE, WALL-MOUNTED & CEILING-MOUNTED
- HORN WITH STROBE, WALL-MOUNTED & CEILING-MOUNTED
- FACP — CONTROL PANEL
- FARA — REMOTE ANNUCIATOR
- FARP — REMOTE PANEL
- FATC — TERMINAL CABINET
- SPRINKLER FLOW SWITCH
- SPRINKLER TAMPER SWITCH

SECURITY

- IP — CCTV CAMERA, WALL-MOUNTED & CEILING-MOUNTED
- IP — AI CAMERA, (2) CAT-6
- AO H — AUTO OPEN, HANDS FREE
- CR — CARD READER, WITH AUTO OPEN FUNCTIONALITY
- KP — KEYPAD
- M — MAGNETIC HOLD OPEN
- M T — MAGNETIC HOLD OPEN WITH TIMER SWITCH
- DURESS ALARM BUTTON

ONE-LINE DIAGRAM

- AVAILABLE FAULT CURRENT IDENTIFICATION
- A — AMMETER
- ARRESTOR, SURGE
- ARRESTOR, LIGHTNING
- AUTOMATIC TRANSFER SWITCH (ATS)
- BUSWAY END TAP
- B — BUSWAY PLUG
- CAPACITOR
- CIRCUIT BREAKER
- CIRCUIT BREAKER, NETWORK PROTECTOR
- GF — CIRCUIT BREAKER, GFI
- CIRCUIT BREAKER, DRAWOUT
- XX XX — CIRCUIT BREAKER, DRAWOUT, MEDIUM VOLTAGE
- CIRCUIT BREAKER, THERMAL OVERLOAD
- CIRCUIT BREAKER, MAGNETIC OVERLOAD
- CONTACT, NORMALLY OPEN & NORMALLY CLOSED
- C — CONTACTOR
- DELTA CONNECTED
- G — ENGINE-GENERATOR
- FUSE (ISOLATING)
- FUSE OR CURRENT LIMITER
- FUSED SWITCH
- GROUND
- K — KEY INTERLOCK
- M — METER
- PM — POWER METER
- PUSHBUTTON
- R — RELAY
- G — RELAY, GFI
- SPD — SURGE PROTECTIVE DEVICE
- SWITCH, 2-POLE
- H A O — SWITCH, 3-POLE
- THERMAL ELEMENT
- TRANSFORMER
- TRANSFORMER, CURRENT
- V — VOLTMETER
- WHM — WATT HOUR METER
- WYE CONNECTED

EQUIPMENT

- EQUIPMENT CONNECTION
- GROUND BAR, LENGTH TO SCALE
- MOTOR CONNECTION, SINGLE-PHASE
- MOTOR CONNECTION, THREE-PHASE
- SPD — SURGE PROTECTIVE DEVICE
- TRANSFORMER

CONTROLS

- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR STARTER
- MANUAL MOTOR STARTER
- COMBINATION MOTOR STARTER FUSED DISCONNECT SWITCH
- ENCLOSED CIRCUIT BREAKER
- PUSH BUTTON CONTROL STATION
- AUTO DOOR PUSHPLATE
- HANDWAVE DOOR OPENER
- EMERGENCY POWER OFF (EPO)
- $M — MOTOR-RATED TOGGLE SWITCH
- VFD — VARIABLE FREQUENCY DRIVE

TELECOM

- ROUGH-IN FOR A/V CONNECTION
- VOICE OUTLET - WALL PHONE, (1) CAT-6
- COMBINATION DATA AND VOICE OUTLET (2) CAT-6 UNO
- DATA OUTLET, FLUSH FLOOR BOX
- DATA OUTLET, CEILING MOUNTED
- COMBINATION DATA AND POWER OUTLET, FLUSH FLOOR BOX
- COMBINATION DATA AND POWER OUTLET, CEILING MOUNTED
- TELECOMMUNICATIONS GROUNDING BAR, LENGTH TO SCALE
- TELECOMMUNICATIONS MAIN GROUNDING BAR, LENGTH TO SCALE
- CABLE TRAY
- WAP — CEILING MOUNTED WIRELESS ACCESS POINT, (1) CAT-6A

RECEPTACLES

CIRCUITS EMERGENCY NORMAL

- SINGLE, 120V
- DUPLEX, 120V
- DOUBLE DUPLEX, 120V
- SPLIT-WIRED DUPLEX, TOP SWITCHED
- SPLIT-WIRED DOUBLE DUPLEX, LEFT SWITCHED
- 208V OR 240V, SINGLE-PHASE
- N/A — 208V OR 240V, THREE-PHASE
- N/A — COMBINATION 120/208V OR 120/240V, SINGLE-PHASE
- N/A — 480V, SINGLE-PHASE
- N/A — 480V, THREE-PHASE
- SINGLE, 120V, TWIST LOCK
- DUPLEX, 120V, TWIST LOCK
- N/A — 208V OR 240V, SINGLE-PHASE, TWIST LOCK
- N/A — 208V OR 240V, THREE-PHASE, TWIST LOCK
- N/A — COMBINATION 120/208V OR 120/240V, SINGLE-PHASE, TWIST LOCK
- N/A — 480V, SINGLE-PHASE, TWIST LOCK
- N/A — 480V, THREE-PHASE, TWIST LOCK
- SINGLE, 120V, FLUSH FLOOR BOX
- DUPLEX, 120V, FLUSH FLOOR BOX
- DOUBLE DUPLEX,120V, FLUSH FLOOR BOX
- SPLIT-WIRED, 120V, FLUSH FLOOR BOX
- SINGLE, 120V, CEILING MOUNTED
- DUPLEX, 120V, CEILING MOUNTED
- DOUBLE DUPLEX, 120V, CEILING MOUNTED
- SPLIT-WIRED, 120V, CEILING MOUNTED

POLES & POKE-THROUGHS

- POWER POKE-THROUGH
- DATA POKE-THROUGH
- COMBINATION POWER & DATA POKE-THROUGH
- POWER POLE
- DATA POLE
- COMBINATION POWER & DATA POLE

RECEPTACLE TYPES

- AC — MOUNTED 3" ABOVE COUNTER BACKSPLASH
- D — DEDICATED CIRCUIT
- G — GROUND FAULT CIRCUIT INTERRUPTER (GFCI)
- GT — GFCI AND TAMPER RESISTANT
- I — ISOLATED GROUND
- T — TAMPER RESISTANT
- WP — GFCI WITH WEATHER PROOF COVER

PANELBOARDS

- 208V SYSTEM PANELBOARD
- 480V SYSTEM PANELBOARD

CIRCUITS

- RACEWAY CONCEALED IN CEILING OR WALL
- EXISTING RACEWAY
- RACEWAY BELOW SLAB OR UNDERGROUND
- RACEWAY UP
- RACEWAY DOWN
- RACEWAY STUB-OUT WITH BUSHING
- CIRCUIT CONTINUATION
- HOMERUN
- J J — JUNCTION BOX
- PB — PULL BOX

WORK DEFINITION

- FLAG NOTE
- REVISION IDENTIFICATION
- EQUIPMENT IDENTIFICATION
- # / # — DETAIL REFERENCE
- # — SECTION REFERENCE
- N — PROJECT NORTH REFERNCE
- NEW WORK
- EXISTING CONDITIONS
- FUTURE WORK
- ××× — DEMOLISH EXISTING

STANDARD MOUNTING HEIGHTS

LOCATE DEVICES AS NOTED BELOW UNLESS OTHERWISE INDICATED. OUTLET HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.

RECEPTACLES	18" VERTICALLY MOUNTED
SWITCHES	43" VERTICALLY MOUNTED
CLOCK OUTLET	80"
PANELBOARDS	72" TO TOP OF PANELBOARD IN BOX IS <68" HIGH, OTHERWISE PER NEC 404.8
INTERCOM	43"
CARD READER	43"
TELECOM OUTLET, DESK HANDSET	18" VERTICALLY MOUNTED
TELECOM OUTLET, WALL HANDSET	43" VERTICALLY MOUNTED
VOLUME CONTROLLER	43"
FIRE ALARM PULL STATION	43"
FIRE ALARM AUDIBLE NOTIFACTION DEVICES	TOP EDGE 90" AFF MINIMUM & 6" BELOW CEILING MINIMUM. (6" MINIMUM BELOW CEILING TAKES PRECEDENCE WHERE BOTH REQUIREMENTS CANNOT BE MET.)
FIRE ALARM VISUAL & COMBINATION AUDIBLE/VISUAL NOTIFICATION DEVICES	BOTTOM EDGE 80"AFF MINIMUM & TOP EDGE 96" AFF MINIMUM.
FIRE ALARM CONTROL PANEL	72" TO TOP OF PANEL

GENERAL NOTES:

1. ALL ELECTRICAL WORK AND MATERIALS ARE TO COMPLY WITH THE LATEST REQUIREMENTS OF ALL APPLICABLE CITY, COUNTY, AND STATE CODES AS WELL AS THE NATIONAL ELECTRICAL CODE AS ADOPTED AND AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
2. FOR EXACT LOCATIONS OF ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES, REFER TO THE ARCHITECTURAL DRAWINGS.

PROJECT DETAILS

PROJECT DETAILS:

THIS PROJECT RENOVATES AND EXPANDS THE EXISTING KITCHEN AT GOOD SAMARITAN HOSPITAL TO ALLOW FOR FUTURE CAMPUS GROWTH. THE PROJECT IS DONE ON A PHASED APPROACH AS OUTLINED IN THIS DRAWING SET.

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253-204-1225
RASHPAL.BASSI@EBD-SERVICES.COM

ELECTRICAL CONTRACTOR CONTACT:

PRECISION ELECTRIC GROUP INC.
BRANDON PICCINI
206-949-0471
BRANDONP@PRECISIONELECTRICGROUP.COM

ABBREVIATIONS

A.AMP	AMPERE	LTS	LENGTH ONLY TO SCALE
ABV	ABOVE	LV	LOW VOLTAGE
AC	3" ABOVE COUNTER BACKSPLASH	MAG	MAGNETIC
ACH	ABOVE COUNTER HEIGHT	MAX	MAXIMUM
AFCI	ARC-FAULT CIRCUIT INTERRUPTING	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AG	ABOVE GRADE	MH	MANHOLE
AHJ	AUTHORITY HAVING JURISDICTION	MIN	MINIMUM
AIC	AMPERE INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY
AL	ALUMINUM	MM	MULTIMODE
AM	AMMETER	MTD	MOUNTED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MW	MICROWAVE
A/V	AUDIO/VISUAL	N	NEUTRAL
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
BAS	BUILDING AUTOMATION SYSTEM	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BKR	BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CATV	COMMUNITY ACCESS TELEVISION	NIC	NOT IN CONTRACT
C	CONDUIT	NO	NORMALLY OPEN
CO	CONDUIT ONLY	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OCP	OVERCURRENT PROTECTION
CCTV	CLOSED CIRCUIT TELEVISION	OCPD	OVERCURRENT PROTECTIVE DEVICE
CKT	CIRCUIT	OPER	OPERATER/OPERABLE
CLG	CEILING	OPOI	OWNER PROVIDED OWNER INSTALLED
CM	CEILING MOUNTED	PB	PULLBOX
COMM	COMMUNICATIONS	PNL	PANEL, PANELBOARD
CTRL	CONTROL	POS	POSITION/POINT OF SALE
CU	COPPER	PR	PAIR
D	DATA	PTS	PNEUMATIC TUBE STATION
DC	DIRECT CURRENT	PWR	POWER
DED	DEDICATED	QTY	QUANTITY
DEV	DEVICE	R	RACEWAY
DIV	DIVISION	RO	RACEWAY ONLY
DN	DOWN	RCP	REFLECTED CEILING PLAN
DTS	DRAWN TO SCALE	RCPT	RECEPTACLE
DW	DISHWASHER	REF	REFRIGERATOR
DWG	DRAWING	SLV	SLEEVE
EC	ELECTRICAL CONTRACTOR	SM	SINGLEMODE
EDP	ENGINEERING DESIGN PROCESS	SMR	SURFACE MOUNTED RACEWAY
EF	ENTRANCE FACILITY	SPECS	SPECIFICATIONS
ER	EQUIPMENT ROOM/EMERGENCY ROOM	SW	SWITCH
		SWBD	SWITCHBOARD
EWC	ELECTRIC WATER COOLER	TELECOM	TELECOMMUNICATIONS
FA	FIRE ALARM	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FB	FLOOR BOX	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
FBOIC	FURNISHED BY OTHERS, INSTALLED BY CONTRACTOR	TP	TRAP PRIMER
FI	FILM ILLUMINATOR	TR	TELECOMMUNICATIONS ROOM
FO	FIBER OPTIC(AL)	TV	TELEVISION
FOC	FACE OF COLUMN	TYP	TYPICAL
G,GND	GROUND	UC	UNDER COUNTER
GD	GARBAGE DISPOSAL	UF	UNDER FLOOR
GEN	GENERATOR	UG	UNDER GROUND
GFI,GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UL	UNDERWRITERS' LABORATORIES
HH	HAND HOLE	UON	UNLESS OTHERWISE NOTED
HP	HORSEPOWER	UTP	UNSHIELDED TWISTED PAIR
HTR	HEATER	V	VOLT OR VOICE
IDF	INTERMEDIATE DISTRIBUTION FRAME	VEL	VERIFY EXACT LOCATION
IHW	INSTA-HOT WATER DISPENSER	W	WIRE, WATT, OR WALLPHONE
JB,J-BOX	JUNCTION BOX	WAP	WIRELESS ACCESS POINT
KV	KILOVOLT	WP	WEATHERPROOF
KVA	KILOVOLT AMPERE	XFMR	TRANSFORMER
KW	KILOWATT	Ø	PHASE
KWH	KILOWATT HOUR		
LED	LIGHT EMITTING DIODE		
LS	LIFE SAFETY		
LTG	LIGHTING		

SHEET LIST

DRAWINGS SHEET LIST	
SHEET NUMBER	SHEET NAME
E00-00	SYMBOLS AND ABBREVIATIONS
E00-01	SPECIFICATIONS
E00-02	WSEC COMPLIANCE FORMS
E10-00	OVERALL PHASING PLAN
E10-01	PHASE 0 - OVERALL DEMOLITION FLOOR PLAN - LEVEL 01
E10-02	PHASE 0 - LIGHTING DEMOLITION PLAN - LEVEL 01
E10-03	PHASE 0 - POWER DEMOLITION PLAN - LEVEL 01
E10-10	PHASE 1 - OVERALL DEMOLITION FLOOR PLAN - LEVEL 01
E10-11	PHASE 1 - LIGHTING DEMOLITION PLAN - LEVEL 01
E10-12	PHASE 1 - POWER DEMOLITION PLAN - LEVEL 01
E10-20	PHASE 1 - OVERALL DEMOLITION FLOOR PLAN - LEVEL 02
E10-21	PHASE 1 - POWER AND LIGHTING DEMOLITION PLAN - LEVEL 02
E11-10	PHASE 1 - OVERALL FLOOR PLAN - LEVEL 01
E11-11	PHASE 1 - LIGHTING RCP - LEVEL 01
E11-12A	PHASE 1 - STEP 1 - POWER PLAN - LEVEL 01
E11-12B	PHASE 1 - STEP 1 - POWER PLAN - LEVEL 01
E11-12C	PHASE 1 - FINAL - POWER PLAN - LEVEL 01
E11-20	PHASE 1 - OVERALL FLOOR PLAN - LEVEL 02
E11-21	PHASE 1 - POWER AND LIGHTING PLAN - LEVEL 02
E11-22	PHASE 1 - ROOF POWER PLAN - LEVEL 03
E11-23	PHASE 1 - ROOF POWER PLAN - LEVEL 04
E20-10	PHASE 2 - OVERALL DEMOLITION FLOOR PLAN - LEVEL 01
E20-11	PHASE 2 - LIGHTING DEMOLITION PLAN - LEVEL 01
E20-12	PHASE 2 - POWER DEMOLITION PLAN - LEVEL 01
E21-10	PHASE 2 - OVERALL FLOOR PLAN - LEVEL 01
E21-11	PHASE 2 - LIGHTING RCP - LEVEL 01
E21-12	PHASE 2 - POWER PLAN - LEVEL 01
E50-00	ONE-LINE DIAGRAM - EXISTING 12.47kV
E50-01	ONE-LINE DIAGRAM - EXISTING ESSENTIAL SYSTEM & FACILITY
E50-03-1	PHASE 1 - ONE-LINE DIAGRAM - D & T WING
E50-04-1	PHASE 1 - ONE-LINE DIAGRAM - NORTH CENTRAL & SOUTH WINGS
E50-03-2	PHASE 2 - ONE-LINE DIAGRAM - D & T WING
E50-04-2	PHASE 2 - ONE-LINE DIAGRAM - NORTH CENTRAL & SOUTH WINGS
E50-07	EXISTING CAMPUS ONE-LINE FEEDER SCHEDULE
E80-00	PHASE 1 - EQUIPMENT COORDINATION SCHEDULES
E80-01	PHASE 1 - EQUIPMENT COORDINATION SCHEDULES
E80-02	PHASE 2 - EQUIPMENT COORDINATION SCHEDULES
E80-03	PHASE 1 - PANEL SCHEDULES
E80-04	PHASE 2 - PANEL SCHEDULES & OVERALL LOAD CALCULATIONS

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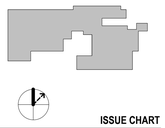
STATE OF WASHINGTON — BRIAN J. STEPHENS — 18013 — REGISTERED PROFESSIONAL ENGINEER
6/30/25

100% CD SET 06/30/2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE, Puyallup, WA 98372

MultiCare Good Samaritan Hospital
MULTICARE

KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

TITLE

SYMBOLS AND ABBREVIATIONS

SHEET NUMBER

E00-00

ELECTRICAL SPECIFICATIONS:

PART 1 - GENERAL

1.1 GENERAL CONDITIONS

A. THE WORK UNDER THIS DIVISION INCLUDES FURNISHING ALL PERMITS, MATERIALS, EQUIPMENT, LABOR, SUPERVISION, TOOLS, EXPENSES, TRAVEL, AND ITEMS NECESSARY FOR THE CONSTRUCTION, INSTALLATION, CONNECTION, TESTING AND OPERATION OF ALL ELECTRICAL WORK FOR THIS PROJECT, AS INTENDED BY THE CONTRACT DOCUMENTS.

B. THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND SPECIAL CONDITIONS ARE A PART OF THIS CONTRACT AND APPLY TO THIS SECTION AS FULLY AS IF REPEATED HEREIN.

1.2 SCOPE

A. THE SCOPE OF THIS PROJECT INCLUDES A PHASED REMODEL OF EXISTING KITCHEN WHICH WILL INCLUDE ELECTRICAL CONNECTIONS TO NEW KITCHEN APPLIANCES, LIGHTING FIXTURES, AND HVAC EQUIPMENT IN AN EXISTING BUILDING. LIGHTING CONTROLS AND LOW VOLTAGE SYSTEMS WILL BE UPDATED IN THE REMODEL AREAS AS NECESSARY. AS A PART OF THIS EFFORT NEW ELECTRICAL DISTRIBUTION WILL BE ADDED AS NECESSARY TO SUPPORT ADDED LOAD.

B. PROVIDE BRANCH POWER AND ASSOCIATED BRANCH CIRCUITING AND CONTROLS.

C. PROVIDE ALL ASSOCIATED ELECTRICAL WORK AS REQUIRED TO EXTEND POWER CONNECTIONS TO NEW MECHANICAL EQUIPMENT.

1.3 CODES AND REGULATIONS

A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND THE UTILITY FURNISHING SERVICES FOR THE SPECIFIC FACILITY LOCATION.

B. CODES GOVERNING THIS WORK INCLUDE BUT ARE NOT LIMITED TO THE LATEST ADOPTED EDITION OF THE FOLLOWING:
1. NFPA 70 (NATIONAL FIRE PROTECTION ASSOCIATION) NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY WASHINGTON CITIES (2023 WCEC)
2. NFPA 72 (NATIONAL FIRE PROTECTION ASSOCIATION) NATIONAL FIRE ALARM AND SIGNALING CODE
3. NFPA 101 (NATIONAL FIRE PROTECTION ASSOCIATION) LIFE SAFETY CODE
4. CITY OF PORT ORCHARD ORDINANCES AND REGULATIONS
5. WSEC - 2021 COMMERCIAL

1.4 STANDARDS

A. ELECTRICAL MATERIAL AND EQUIPMENT SHALL BE UNDERWRITER'S LABORATORIES LISTED AND INSTALLED IN ACCORDANCE WITH THE LISTING AND LABELING OF THE EQUIPMENT.

B. INSTALLATION SHALL CONFORM TO THE NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION) STANDARD OF INSTALLATION.

1.5 SUBMITTALS

A. ELECTRONIC COPIES, IN .PDF FORMAT, OF MATERIALS LIST, SHOP DRAWINGS AND DATA SHEETS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. SUBMITTALS SHALL BE MADE, AND FAVORABLE REVIEW SECURED BEFORE MATERIAL AND EQUIPMENT IS INSTALLED.

B. MATERIALS LIST SHALL INCLUDE: DEVICES, DISCONNECTS, LIGHT FIXTURES, LIGHTING CONTROL DEVICES AND OTHER ITEMS SPECIFIED OR CALLED FOR ON THE DRAWING. THE LIST SHALL INCLUDE MANUFACTURE, TYPE AND SUCH OTHER DESCRIPTIVE DATA AS MAY BE REQUIRED TO DETERMINE THE ACCEPTABILITY OF EACH ITEM.

C. SHOP DRAWINGS AND DATA SHEETS FOR EQUIPMENT AND SYSTEMS SHALL BE SUBMITTED WHERE REQUIRED IN THE SPECIFICATIONS FOR THOSE ITEMS. INCLUDE INFORMATION ON EACH COMPONENT, WIRING DIAGRAMS, LAYOUTS, DIMENSIONS AND SUFFICIENT OTHER DATA TO ESTABLISH COMPLIANCE WITH THE SPECIFICATIONS AND ACCEPTABILITY OF THE EQUIPMENT OR SYSTEM.

D. SHOP DRAWINGS SHALL BE SUBMITTED IN EITHER HALF OR FULL SIZE AS FOLLOWS:

1. HALF SIZE SHALL BE 15 INCHES BY 21 INCHES MINIMUM. MINIMUM HALF SIZE FONT HEIGHT SHALL BE 1/16 INCH. WIDTH SHALL BE PROPORTIONAL NO LESS THAN 70 PERCENT OF THE HEIGHT.
2. FULL SIZE SHALL BE 30 INCHES BY 42 INCHES MINIMUM. MINIMUM FULL-SIZE FONT HEIGHT SHALL BE 1/8 INCH. WIDTH SHALL BE PROPORTIONAL NO LESS THAN 70 PERCENT OF THE HEIGHT.

E. PROVIDE CLEARLY MARKED AND LEGIBLE DATA SHEETS FOR EACH ITEM OF EQUIPMENT BEING INSTALLED ON THE PROJECT. THIS SHALL INCLUDE EACH MAJOR REPLACEABLE COMPONENT THAT IS PART OF A LARGER ASSEMBLY. DATA SHEETS SHALL CLEARLY INDICATE:
1. EQUIPMENT MANUFACTURER, MAKE, MODEL NUMBER, SIZE, NAMEPLATE DATA, ETC.
2. UL, FM, AND ETL LISTING AND CATEGORY.

F. PROVIDE PRODUCT DATA AND SHOP DRAWINGS FOR THE FOLLOWING:
1. PANELBOARDS
2. WIRING DEVICES
3. CIRCUIT BREAKERS AND DISCONNECTS
4. LIGHTING FIXTURES
5. LOW VOLTAGE LIGHTING CONTROLS
   5.1. SHOW INSTALLATION DETAILS FOR OCCUPANCY AND LIGHT-LEVEL SENSORS.
   5.2. LIGHTING PLAN SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH SENSOR. THIS PLAN SHALL TAKE INTO CONSIDERATION THE SIZE AND USE OF EACH SPACE AS WELL AS THE SPECIFIC CAPABILITIES OF SUBMITTED MANUFACTURER'S EQUIPMENT TO PROVIDE PROPER COVERAGE TO THE AREAS OF CONTROL.
   5.3. INTERCONNECTION DIAGRAMS SHALL SHOW FIELD-INSTALLED WIRING.

G. COMMISSIONING RESULTS: SUBMIT A COPY OF THE COMPLETED COMMISSIONING DOCUMENTS.

1.6 SUBSTITUTIONS

A. NO SUBSTITUTIONS ARE ALLOWED. ALTERNATIVE MANUFACTURERS WILL BE CONSIDERED FOR ELECTRICAL EQUIPMENT SPECIFIED AND SHOWN HEREIN. THE SPECIFIED MANUFACTURER'S EQUIPMENT SETS THE LEVEL OF QUALITY FOR THE WORK. WORK AND EQUIPMENT NOT MEETING THE LEVEL OF QUALITY SHALL BE REJECTED. THE ENGINEER HAS DISCRETION TO ACCEPT OR REJECT THE ALTERNATIVE MANUFACTURER'S EQUIPMENT.

1.7 PERMITS AND DRAWINGS

A. PERMITS AND INSPECTIONS SHALL BE OBTAINED, COORDINATED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.

B. THE CONTRACTOR SHALL PAY ALL FEES AND TAXES FOR THE TOTAL COST OF CONSTRUCTION, INCLUDING CONTRACTOR AND OWNER FURNISHED MATERIALS AND EQUIPMENT AS SHOWN AND SPECIFIED.

C. THE CONTRACTOR SHALL OBTAIN AND PAY THE PLAN REVIEW FEE.

D. THE CONTRACTOR SHALL PAY FOR PLAN REVIEW FEES AND RE-INSPECTIONS RESULTING FROM SUBSTITUTIONS. FEES DUE TO SUBSTITUTIONS SHALL BE AT NO COST TO THE OWNER.

E. THE CONTRACTOR SHALL INCLUDE APPLICABLE PLAN REVIEW FEES AND RE-INSPECTION FEES IN CHANGE ORDER PROPOSALS.

1.8 RECORD DRAWINGS

A. ON A SET OF CONTRACT DRAWINGS KEPT AT THE SITE DURING CONSTRUCTION, MARK ALL WORK THAT IS INSTALLED DIFFERENTLY FROM THAT SHOWN. INCLUDE ANY REVISED CIRCUITRY, MATERIAL OR EQUIPMENT. UPON CONCLUSION OF THE WORK, DELIVER TO THE OWNER REPRESENTATIVE A SET OF SIGNED AND DATED ''AS-BUILT'' DRAWINGS IN CAD/REVIT AND PDF FORMAT.

1.9 WARRANTY

A. ALL WORK SHALL INCLUDE A WARRANTY FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. THE WARRANTY PERIOD FOR CERTAIN ITEMS SHALL BE LONGER, AS INDICATED IN THE SPECIFICATIONS FOR THOSE ITEMS.

B. SHOULD ANY MALFUNCTION DEVELOP DURING THE WARRANTY TIME PERIOD DUE TO DEFECTIVE MATERIAL, FAULTY WORKMANSHIP, OR NON-COMPLIANCE WITH PLANS, SPECIFICATIONS, CODE OR DIRECTIONS OF THE OWNER OR OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO CORRECT THE MALFUNCTION AT NO ADDITIONAL COST TO THE OWNER.

PART 2 - PRODUCTS

2.1 MATERIAL

A. MATERIALS SHALL BE NEW, FREE OF DEFECTS AND OF CURRENT MANUFACTURE. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS SPECIFICALLY NOTED OTHERWISE.

2.2 WIRE AND CABLE (600 VOLT AND LESS)

A. PRODUCTS SHALL COMPLY WITH UL 44 AND UL 83 SINGLE CONDUCTOR INSULATED WIRE.

B. WIRE AND CABLE FOR USE ON SYSTEMS OF 600 VOLTS AND LESS SHALL BE 600 VOLT WITH NEC TYPE THHN/THWN OR XHHW INSULATION FOR BRANCH CIRCUITS AND FEEDERS. 75 DEGREES INSULATION SHALL BE USED TO DETERMINE AMPACITY FOR #2AWG AND LARGER FEEDER CONDUCTORS.
1. USE TYPE THHN/THWN CONDUCTORS FOR ALL BRANCH POWER AND LIGHTING CIRCUITS.
2. USE TYPE XHHW IN AMBIENT TEMPERATURES BELOW 32°F. USE TYPE XHHW-2 FOR ALL WIRING CONNECTED TO GFCI BREAKERS
3. USE OF MC OR HCF-MC CABLE NOT ALLOWED.

C. ALL CONDUCTORS SMALLER THAN 100A SHALL BE COPPER.

D. ALL GROUNDING CONDUCTORS SHALL BE INSULATED.

2.3 RACEWAY AND BOXES

A. RIGID STEEL CONDUIT, ZINC COATED; ANSI C80.1: ALL FITTINGS SHALL BE SCREW THREAD TYPE, COUPLINGS, LOCKNUTS, BUSHINGS, ETC. SHALL BE HOT DIPPED GALVANIZED.

B. ELECTRICAL METALLIC TUBING, ZINC COATED: ANSI C80.3: COUPLINGS AND CONNECTORS SHALL BE STEEL GALVANIZED, COMPRESSION TYPE WITH GLAND SEALING RINGS.

C. FLEXIBLE METAL CONDUIT: UL 1: FLEXIBLE METAL CONDUIT SHALL BE GALVANIZED STEEL OR ALUMINUM. WHERE EXPOSED TO DAMP OR WET LOCATIONS FLEXIBLE CONDUIT SHALL BE LIQUID-TIGHT WITH OUTER SUITABLE LIQUID-TIGHT FITTINGS LISTED FOR THE PURPOSE.

D. OUTLET AND JUNCTION BOXES: OUTLET AND JUNCTION BOXES SHALL BE GALVANIZED, ONE-PIECE PRESSED OR WELDED STEEL, KNOCKOUT TYPE EXCEPT AS OTHERWISE NOTED OR SPECIFIED.

E. PROVIDE FIRE-STOPPING WHERE CONDUIT PASSES THROUGH A RATED ASSEMBLY.

2.4 WIRING DEVICES (PROVIDE DEVICES PER DRAWINGS)

A. RECEPTACLES:
1. PROVIDE 20 AMP RECEPTACLES IN ALL CONVENIENCE AND DEDICATED LOCATIONS. PLUG TAIL ACCEPTABLE.
2. ALL RECEPTACLES SHALL BE HOSPITAL GRADE.
3. RECEPTACLES COVERS TO BE STAINLESS STEEL TYPE OR AS APPROVED BY OWNER.
4. GROUND PIN/NEUTRAL LOCATION TO BE CONSISTENT WITH FACILITY IN ALL RENOVATION OR EXPANSION PROJECTS, AND FOR NEW PROJECTS SHALL BE GROUND PIN DOWN.
5. HEAVY DUTY SPECIFICATION GRADE.
6. TAMPER PROOF IN PUBLIC AREAS.

B. SWITCH COVER PLATES TO BE STAINLESS STEEL TYPE OR AS APPROVED BY OWNER.

C. CIRCUITING:
1. CONVENIENCE DUPLEX RECEPTACLES - MAXIMUM OF SIX PER 20A CIRCUIT.
2. HOMERUN CONDUIT - MAXIMUM 4 CIRCUITS.
3. POWER AND LIGHTING SHALL NOT BE ON THE SAME CIRCUITS (EXCEPT UNDER-CABINET LIGHTING).
4. 480/277V BRANCH CIRCUIT WIRING SHALL BE IN SEPARATE CONDUITS FROM 208/120V CIRCUIT WIRING.

2.5 FUSIBLE SWITCHES

A. TYPE GD, GENERAL DUTY, SINGLE THROW, 100 A AND SMALLER: UL 98 AND NEMA KS 1, HORSEPOWER RATED, WITH CARTRIDGE FUSE INTERIORS, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

B. TYPE HD, HEAVY DUTY, SINGLE THROW, LARGER THAN 100 AMP: UL 98 AND NEMA KS 1, HORSEPOWER RATED, WITH CLIPS OR BOLT PADS TO ACCOMMODATE FUSES, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

C. ACCESSORIES:
1. CLASS R FUSE KIT: PROVIDES REJECTION OF OTHER FUSE TYPES WHEN CLASS R FUSES ARE SPECIFIED.

2.6 NONFUSIBLE SWITCHES

A. TYPE GD, GENERAL DUTY, SINGLE THROW, 100 A AND SMALLER: UL 98 AND NEMA KS 1, HORSEPOWER RATED, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

B. TYPE HD, HEAVY DUTY, SINGLE THROW, LARGER THAN 100 AMP. UL 98 AND NEMA KS 1, HORSEPOWER RATED, LOCKABLE HANDLE WITH CAPABILITY TO
ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

C. TYPE HD, HEAVY DUTY, DOUBLE THROW, 1200 A AND SMALLER: UL 98 AND NEMA KS 1, HORSEPOWER RATED, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

2.7 TOGGLE SWITCHES

A. COMPLY WITH NEMA WD 1, UL 20, AND FS W-S-896.

B. SWITCHES, 120/277V, 20A:

1. DIMMER SWITCHES: MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH INTEGRAL, QUIET ON-OFF SWITCHES, WITH AUDIBLE FREQUENCY AND EMI/RFI SUPPRSSION FILTERS.
2. THREE-WAY DIMMER: PROVIDES MULTI-LOCATION CAPABILITY USING STANDARD 3-WAY AND 4-WAY MECHANICAL SWITCHES.
3. CONTROL: CONTINUOUSLY ADJUSTABLE PADDLE SWITCH WITH SINGLE-POLE OR 3-WAY SWITCHING. COMPLY WITH UL 1472.
4. LED LAMP DIMMER SWITCHES: MODULAR; COMPATIBLE WITH DRIVERS AND FIXTURE LOAD. TRIM POTENTIOMETER TO ADJUST LOW-END DIMMING; DIMMER-DRIVER COMBINATION CAPABLE OF CONSISTENT DIMMING WITH LOW END DESCRIBED IN THE FIXTURE SCHEDULE.

2.8 INDOOR OCCUPANCY SENSORS

A. GENERAL OPERATION
1. THE OCCUPANCY SENSOR SYSTEM SHALL SENSE THE PRESENCE OF HUMAN ACTIVITY WITHIN THE DESIRED SPACE AND FULLY CONTROL THE ON/OFF FUNCTION OF THE LOADS AUTOMATICALLY. SENSORS SHALL TURN ON THE LOAD WITHIN 2 FEET OF ENTRANCE AND SHALL NOT INITIATE "ON" OUTSIDE OF ENTRANCE.

B. SWITCH-BOX OCCUPANCY SENSORS

1. GENERAL
   1.1. SENSOR MUST NOT PROTRUDE OUT FROM THE COVER PLATE MORE THAN 0.37 INCHES, AND RECESS INTO THE SWITCH BOX MORE THAN 1 INCH. SENSOR MUST SURFACE MOUNT TO SINGLE GANG SWITCH BOX AND ACCEPT ACCESSORY PLATES FOR MULTI-GANG INSTALLATIONS. SENSOR MUST PROVIDE AN OFF/AUTO OVERRIDE SWITCH, (2 SWITCHES IF 2-POLE DEVICE).
   1.2. OPTIONAL 2-POLE UNITS MUST BE AVAILABLE. MANUAL OR AUTO ON SHALL BE CONFIGURABLE FOR BOTH POLES.
2. DUAL TECHNOLOGY (DT)
   2.1. SENSING MUST INCORPORATE PIR WITH ULTRASONIC MONITORING. BOTH PIR AND ULTRASONIC MOTION SENSING SHALL INITIATE AN ON CONDITION AND EITHER TECHNOLOGY SENSING MOTION SHALL KEEP THE ON STATE.
   2.2. EITHER TECHNOLOGY SHALL BE ABLE TO BE DISABLED DURING COMMISSIONING IF NECESSARY FOR THE SPECIFIC APPLICATION.

A. CEILING OR WALL MOUNTED OCCUPANCY SENSORS

1. GENERAL
   1.1. SENSOR SHALL BE CEILING OR WALL MOUNTED DEVICE, MOUNTED TO EITHER A SINGLE GANG ENCLOSURE, OR SURFACE MOUNTED TO A ROUND SURFACE RACEWAY PANCAKE BOX.
   1.2. DETECTION COVERAGE OPTIONS SHALL INCLUDE COVERAGE AREAS OF A RANGE OF CIRCULAR AREAS FROM 600 SQ. FT. TO 2000 SQ. FT.
2. DUAL TECHNOLOGY (DT)
   2.1. SENSING MUST INCORPORATE PIR WITH ULTRASONIC. BOTH PIR AND ULTRASONIC MOTION SENSING SHALL INITIATE AN ON CONDITION AND EITHER TECHNOLOGY SENDING MOTION SHALL KEEP THE ON STATE.

2.9 DAYLIGHT-HARVESTING DIMMING CONTROLS

A. SYSTEM DESCRIPTION: SENSING DAYLIGHT AND ELECTRICAL LIGHTING LEVELS, THE SYSTEM SHALL ADJUST THE INDOOR ELECTRICAL LIGHTING LEVELS. AS DAYLIGHT INCREASES, THE LIGHTS SHALL BE DIMMED.

B. PHOTO SENSORS SHALL PROVIDE AN ON-SET POINT AND A SEPARATE OFF SET POINT, THEREBY CREATING A DEAD BAND TO PREVENT UNNECESSARY CYCLING OF THE ELECTRIC LIGHTS. SET POINT SETTING SHALL BE VERIFIED WITH A DIGITAL VOLT METER CONNECTED TO TEST LEADS PROVIDED BY THE SENSOR. SENSOR SHALL SEND AN ELECTRONIC, LOW VOLTAGE SIGNAL TO A REMOTE POWER PACK OR OTHER CONTROL DEVICE WHICH IS DIRECTLY CONNECTED TO THE LOAD. FOOTCANDLE LEVEL SHALL BE SET 30 FC (300 LUX) OR AS NOTED IN DOCUMENTS.

2.10 STAND ALONE ROOM AUTOMATIC CONTROLS

A. INTELLIGENT ROOM CONTROLLERS
1. ROOM CONTROLLERS MUST BE DESIGNED TO POWER AND ACCEPT SIGNALS FROM REMOTE LOW VOLTAGE SENSORS, OR OTHER CONTROL DEVICES, AND DIRECTLY SWITCH THE LINE VOLTAGE OF THE DESIRED LOAD CONTROLLED.
2. ROOM CONTROLLERS MUST ACCEPT 120, 240, OR 277 VAC UTILIZING A DUAL TAP TRANSFORMER.
3. ROOM CONTROLLERS SHALL ALLOW POWER FOR AUXILIARY DEVICES, DEPENDING ON MODEL.
4. ROOM CONTROLLER SHALL EMPLOY ZERO CROSS CIRCUITRY FOR EACH LOAD, AND SHALL BE CAPABLE OF SWITCHING A 20A LOAD AND DIMMING 0-10V LOADS. IN ADDITION, CONTROLLERS SHALL BE CAPABLE OF DIMMING ALTERNATE METHODS, INCLUDING BUT NOT LIMITED TO INCANDESCENT DIMMING, MAGNETIC LOW VOLTAGE, FORWARD PHASE OR REVERSE PHASE LED DRIVERS, AND DIMMABLE TWO-WIRE AND THREE-WIRE LOADS.
5. ROOM CONTROLLERS SHALL HAVE 1-4, BUT NO MORE THAN A 20A LOAD PER DEVICE.

B. ROOM CONTROL COMPONENTS

1. PROVIDE ALL COMPONENTS, (INCLUDING BUT NOT LIMITED TO) OCCUPANCY SENSORS, PHOTOCELLS AND WALL CONTROLS AS SHOWN ON DRAWINGS AND/OR IN CONTROLS MATRIX.

2.11 U.L. 924 BI-PASS DEVICE

A. THE EMERGENCY LIGHTING CONTROL UNIT (ELCU) SHALL PROVIDE ALL REQUIRED FUNCTIONALITY TO ALLOW ANY STANDARD LIGHTING CONTROL DEVICE TO CONTROL EMERGENCY LIGHTING IN CONJUNCTION WITH NORMAL LIGHTING IN ANY AREA WITHIN A BUILDING.

B. THE DEVICE SHALL HAVE AN INTEGRAL TOP MOUNTED MOMENTARY TEST SWITCH. PRESSING AND HOLDING THIS SWITCH SHALL INSTANTLY FORCE THE UNIT INTO EMERGENCY MODE AND TURN ON EMERGENCY LIGHTING. RELEASING THE TEST SWITCH SHALL IMMEDIATELY RETURN THE UNIT TO NORMAL OPERATION.

C. UNIT HOUSING SHALL BE UL94 V-O PLENUM RATED AND SHALL BE EQUIPPED WITH COMPRESSION WIRE TERMINALS RATED FOR #14 - #12 SOLID OR STRANDED COPPER WIRE.

D. THE UNIT SHALL BE UL AND CUL LISTED AND LABELED FOR CONNECTION TO BOTH NORMAL AND EMERGENCY LIGHTING POWER SOURCES.

2.12 PHOTO SENSORS

A. THE PHOTO SENSOR SHALL INTERFACE WITH MULTI-INPUT DIGITAL ADDRESSABLE DIMMING DRIVERS. DIMMING SENSOR SHALL CONNECT DIRECTLY TO THE DRIVER OR MODULE WITH 4 LOW VOLTAGE WIRES. PHOTO SENSING ELEMENT SHALL BE A PHOTOELECTRIC SENSOR. SENSORS SHALL BE CLOSED LOOP FOR SINGLE ZONE CONTROL OR OPEN LOOP FOR MULTI-ZONE CONTROL.

2.13 CONDUCTORS AND CABLES

A. POWER WIRING TO SUPPLY SIDE OF REMOTE-CONTROL POWER SOURCES: NOT SMALLER THAN NO. 12 AWG, COMPLYING WITH SECTION 260519 - LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES.
B. CLASSES 2 AND 3 CONTROL CABLE: MULTICONDUCTOR CABLE WITH STRANDED COPPER CONDUCTORS NOT SMALLER THAN NO. 22 AWG, COMPLYING WITH SECTION 260519 - LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES. PROVIDE PLENUM RATED AS REQUIRED.

2.14 ENCLOSURES

A. ENCLOSED SWITCHES AND CIRCUIT BREAKERS: NEMA AB 1, NEMA KS 1, NEMA 250, AND UL 50, TO COMPLY WITH ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
1. INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.
2. OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.
3. WASH-DOWN AREAS: NEMA 250, TYPE 4X, STAINLESS STEEL.
4. OTHER WET OR DAMP, INDOOR LOCATIONS: NEMA 250, TYPE 4.
5. INDOOR LOCATIONS SUBJECT TO DUST, FALLING DIRT, AND DRIPPING NONCORROSIVE LIQUIDS: NEMA 250, TYPE 12.

2.15 GROUNDING

A. PROVIDE COPPER GROUNDING.

B. PROVIDE DEDICATED NEUTRAL (NO SHARED NEUTRALS) WITH ALL BRANCH CIRCUITS IN EACH CONDUIT. USE OF MULTI-POLE BREAKERS OR BREAKER TIES IN LIEU OF DEDICATED NEUTRALS IS NOT PERMITTED.

C. ALL CONDUITS WILL BE PROPERLY BONDED WITH INSULATED GROUND WIRE RUN WITH CONDUCTORS.

D. ALL PANELS AND TRANSFORMERS MUST HAVE A DEDICATED EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO ELECTRODE OR BUILDING GROUNDS AS REQUIRED PER CODE.

2.16 CIRCUIT BREAKERS

D. CIRCUIT BREAKERS SHALL BE THE SAME MANUFACTURER AS THE PANELBOARD OR SWITCHBOARD IN WHICH THEY ARE INSTALLED.

E. CIRCUIT BREAKERS SHALL BE MOLDED-CASE BOLT-ON TYPE. PLUG-IN TYPES ARE NOT ACCEPTABLE. MULTI-POLE BREAKERS SHALL HAVE INTERNAL TRIP AND SINGLE HANDLE OPERATION.

F. PROVIDE ALL NECESSARY MOUNTING HARDWARE, ACCESSORIES AND CLOSURE DEVICES AS NECESSARY.

G. SHORT CIRCUIT INTERRUPTING CAPACITY SHALL BE AS INDICATED ON PLANS OR TO MATCH RATING OF THE EXISTING PANELBOARD INTO WHICH THE CIRCUIT BREAKER IS TO BE INSTALLED.

2.17 PANELBOARDS

A. MANUFACTURERS:
1. SCHNEIDER ELECTRIC (SQUARE-D)
2. EATON (CUTLER-HAMMER)
3. SIEMENS
4. GENERAL ELECTRIC
5. ABB

B. CONSTRUCTION: GALVANIZED STEEL ENCLOSURE, MANUFACTURES STANDARD GRAY PAINT, BOLT ON CIRCUIT BREAKER, COPPER BUS. SURFACE MOUNTED WITH DOOR-IN-DOOR COVER.

C. CIRCUIT BREAKERS: MOLDED CASE, NEMA AB 1, BOLT ON TYPE WITH INTEGRAL THERMAL AND INSTANTANEOUS TRIP IN EACH POLE (COMMON TRIP).

D. PROVIDE ARC FLASH STICKERS ON ALL NEW EQUIPMENT.

2.18 EQUIPMENT IDENTIFICATION

A. PANELBOARDS: PER BUILDING STANDARDS. MATCH EXISTING NAMING CONVENTION

B. RECEPTACLES AND LIGHT SWITCHES: PRINTED LABEL WITH (PANEL) NAME AND CIRCUIT NUMBER. (EXAMPLE: ''PP4-23'' FOR PANEL PP4, CIRCUIT 23)
NORMAL POWER: ¼" BLACK LETTERS
EMERGENCY POWER: ¼" RED LETTERS

PART 3 - EXECUTION

3.1 INSTALLATION OF ELECTRICAL EQUIPMENT

A. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, NECA STANDARD OF INSTALLATION AND IN ACCORDANCE WITH THE UL LISTING FOR THE EQUIPMENT OR MATERIAL.
ALL DISCONNECTS, FUSES, CIRCUIT BREAKERS SHALL BE PROVIDED AS INDICATED AND FOR PROPER PROTECTION OF THE EQUIPMENT SERVED. PROVIDE ALL FLEXIBLE CONDUIT, BOXES, PULL BOXES, FITTINGS, SEALS, AND OTHER MATERIALS REQUIRED FOR A COMPLETE AN OPERATIONAL SYSTEM. THE WORK UNDER THIS DIVISION INCLUDES FURNISHING ALL PERMITS, MATERIALS, EQUIPMENT, LABOR, SUPERVISION, TOOLS AND ITEMS NECESSARY FOR THE CONSTRUCTION, INSTALLATION, CONNECTION, TESTING AND OPERATION OF ALL ELECTRICAL WORK FOR THIS PROJECT, AS INTENDED BY THE CONTRACT DOCUMENTS.

3.2 INSTALLATION OF RACEWAY AND FITTINGS

A. INSTALL RIGID STEEL CONDUIT WHERE EXPOSED TO WEATHER, PLACED UNDERGROUND, IN OR UNDER CONCRETE OR MASONRY CONSTRUCTION, IN CONTACT WITH EARTH AND AS INDICATED ON PLANS.

B. EMT MAY BE USED IN ABOVE GRADE INTERIOR DRY LOCATIONS AND WHERE PROTECTED FROM PHYSICAL DAMAGE.

C. FLEXIBLE METAL CONDUIT SHALL BE USED WHERE REQUIRED TO MAKE CONNECTIONS TO VIBRATING OR ROTATING EQUIPMENT.

D. ALL RIGID STEEL CONDUIT INSTALLED IN CONTACT WITH EARTH SHALL BE PVC COATED OR OTHERWISE PROTECTED WITH A BITUMASTIC MATERIAL.

E. MINIMUM SIZE OF CONDUIT SHALL BE CODE SIZE FOR THE NUMBER AND SIZE OF CONDUCTORS UNLESS A LARGER SIZE IS INDICATED ON THE PLANS.

F. WHERE PENETRATIONS ARE MADE THROUGH PARTITIONS, PROVIDE SEALING MATERIAL TO MAINTAIN THE FIRE RATING OF THE PARTITION. FOR EXTERIOR WALLS PROVIDE SLEEVES AND SEALING TO PREVENT WATER AND MOISTURE PENETRATION AND TO PREVENT VARMINT AND INSECT INTRUSION.

3.3 INSTALLATION OF CONDUCTORS AND EQUIPMENT CONNECTIONS

A. ALL WIRING SHALL BE INSTALLED IN CONDUIT, WIREWAYS, OR GUTTERS EXCEPT WHERE OTHER RACEWAY SYSTEMS ARE SPECIFICALLY CALLED FOR.

B. INSTALL WIRING ONLY AFTER RACEWAY INSTALLATION HAS BEEN COMPLETED CLEANED AND DRIED.

C. PULLING LUBRICANTS APPROVED BY THE WIRE OR CABLE MANUFACTURE MAY BE UTILIZED.

D. MAKE ALL CONNECTIONS AND SPLICES REQUIRED FOR COMPLETE AND OPERABLE ELECTRICAL INSTALLATION. CONNECTIONS AND SPLICES SHALL BE MADE ONLY IN JUNCTION, PULL OR OUTLET BOXES OR IN WIREWAYS, SWITCHBOARDS AND PANELBOARDS HAVING CODE SIZED GUTTER SPACE OR CROSS-SECTIONAL AREA. WIRES #8 AND SMALLER CONNECTIONS SHALL BE MADE WITH SPRING TYPE CONNECTORS; WIRES #6 AND LARGER, CONNECTIONS SHALL BE MADE WITH SPLIT-BOLT OR COMPRESSION TYPE SOLDERLESS CONNECTORS, INSULATED AND TAPED.

E. UPON COMPLETION OF WORK, UPDATED ALL PANEL DIRECTORIES WITH CORRECT CIRCUIT INFORMATION. PROVIDE PRINTED CIRCUIT DIRECTORIES IN PANELS AFFECTED BY THE PROJECT. PEN AND INK CHANGES TO THE EXISTING DIRECTORIES ARE NOT ACCEPTABLE.

3.4 SENSOR INSTALLATION

A. COORDINATE LAYOUT AND INSTALLATION OF CEILING-MOUNTED DEVICES WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, SMOKE DETECTORS, FIRE-SUPPRESSION SYSTEMS, IT SYSTEMS, AV AND PARTITION ASSEMBLIES.
B. INSTALL AND AIM SENSORS IN LOCATIONS TO ACHIEVE AT LEAST 90 PERCENT COVERAGE OF AREAS INDICATED. INSTALL SENSORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DO NOT EXCEED COVERAGE LIMITS SPECIFIED IN MANUFACTURER'S WRITTEN INSTRUCTIONS.

3.5 DEVICE INSTALLATION

A. DIMMERS:
1. INSTALL DIMMERS WITHIN TERMS OF THEIR LISTING AND PER MANUFACTURER'S DEVICE LISTING CONDITIONS IN THE WRITTEN INSTRUCTIONS

3.6 WIRING INSTALLATION

A. WIRING WITHIN ENCLOSURES: COMPLY WITH NECA 1. SEPARATE POWER-LIMITED AND NONPOWER-LIMITED CONDUCTORS ACCORDING TO CONDUCTOR MANUFACTURER'S WRITTEN INSTRUCTIONS.

B. PROVIDE PLENUM RATED CABLING FOR ALL CABLES INSTALLED IN RETURN AIR PLENUMS.

3.7 SYSTEM STARTUP AND COMMISSIONING

A. COMMISSIONING SHALL TAKE PLACE PRIOR TO DEMONSTRATION OF SYSTEM TO OWNER AND SHALL COMPLY WITH ENERGY CODE REQUIREMENTS.

3.8 GROUNDING

A. PERMANENTLY AND EFFECTIVELY GROUND ALL CONDUIT, BOXES, ENCLOSURES AND EQUIPMENT TO COMPLY WITH NEC 250 AND ALL APPLICABLE CODES AND REGULATIONS.

B. PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS SIZED IN ACCORDANCE WITH NEC TABLE 250.122 WHETHER SPECIFICALLY CALLED FOR ON THE PLANS OR NOT.

3.9 PROTECTION OF PREMISES

A. CONTRACTOR SHALL CLEAN WORK AREA AND REMOVE ALL CONSTRUCTION DEBRIS DAILY PRIOR TO LEAVING THE PREMISES.

B. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURFACES, MATERIALS, EQUIPMENT AND PROPERTY FROM DAMAGE AS RESULT OF CONSTRUCTION ACTIVITIES. DAMAGED SURFACES, MATERIALS, EQUIPMENT AND PROPERTY SHALL BE REPAIRED TO EXISTING CONDITIONS AT NO COST TO THE OWNER.

3.10 TESTING OF ELECTRICAL SYSTEMS

A. EQUIPMENT INSTALLED OR MODIFIED UNDER THIS SECTION SHALL BE INSPECTED AND TESTED FOR PROPER OPERATION IN ACCORDANCE WITH APPLICABLE NETA ACCEPTANCE TESTING STANDARDS.

B. SYSTEMS SHALL BE TESTED FOR SHORT CIRCUITS, OPEN CIRCUITS, PHASE ROTATION AND SHALL BE FREE FROM MECHANICAL AND ELECTRICAL DEFECTS.

C. THE CONTRACTOR SH

WSEC COMPLIANCE FORMS:

LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	**Project Title**	MC Goo Samaritan Hospital Kitchen Renovation - 2021 WSEC	For Building Department Use: **Date: Jun 26, 2025**
	Project Address	401 15th Ave SE Puyallup, WA 98372	
	Applicant Name	Semir Halilovic	
	Applicant Phone	206-419-7650	
	Applicant Email	semir.halilovic@dnd-services.com	

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at ecom.techsupport@waenergycodes.com

General Occupancy	All Commercial		**General Building Use Type**		Healthcare, Hospital	**Building Cond. Floor Area**	46,000
General Project Types	Alteration	**New Building or Addition Lighting Scope**		**Alteration Lighting Scope**	Interior Lighting	**Project Cond. Floor Area**	16,580
						Floors Above Grade	4
						Compliance Method	General Prescriptive
Lighting Project Description	Kitchen and supporting areas remodel.						

Lighting Compliance Scope and Method	**Project Type**	**Interior / Exterior** (Interior includes both interior & parking)	**Luminaire Replacement Scope**	**Compliance Method**	**LPA Calculation Adjustment**	**Compliance Verification**
	Alteration	Interior Lighting	20% or more replaced	Space by space	No Calculation Adjustments allowed	**COMPLIES**
Additional Energy Efficiency (AEC) Measures Included	No lighting or electrical additional energy efficiency measures included in project		**Load Management (LDM) Measures Included**		No lighting or electrical load management measures included in project	

Project Title	**MC Goo Samaritan Hospital Kitchen Renovation - 2021 WSEC**	**Date**	**Jun 26, 2025**
Lighting Power Calculation	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**	**Compliance Verification**	**COMPLIES**
Compliance Method	**Space by space**	**LPA Calculation Adjustment**	**none**

Interior Lighting Power Allowance - Space by Space

General Space Type	Specific Space Type	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts (LPD = Display LPD)	Compliance Status
Corridors	General	1,880	0.41	771		
Corridors	General	355	0.41	146		
Food preparation		1,855	1.09	2,022		
Food preparation		2,825	1.09	3,079		
Food preparation		820	1.09	894		
Locker room		125	0.52	65		
Lounge/breakroom	General	1,615	0.59	953		
Office	Enclosed ≤ 250 sf	175	0.74	130		
Office	Enclosed ≤ 250 sf	210	0.74	155		
Office	Enclosed ≤ 250 sf	555	0.74	411		
Office	Enclosed > 250 sf	360	0.66	238		
Office	Open plan	260	0.61	159		
Office	Open plan	530	0.61	323		
Storage room	General	1,211	0.38	460		
Storage room	General	950	0.38	361		
Storage room	50-100 sf	106	0.38	40		
Workshop		220	1.26	277		
			Proposed Total LPD		**6,766**	

Totals		**10,483**	**6,766**	**COMPLIES**

Proposed Lighting Power Density

Fixture Type	Fixture ID	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures						
Troffer	L4	41	50			2,050
Troffer	L3	38	50			1,900
Troffer	L2	77	28			2,156
Troffer	L1	30	22			660
					Proposed Total LPD	**6,766**

Project Title	**MC Goo Samaritan Hospital Kitchen Renovation - 2021 WSEC**	**Date**	**Jun 26, 2025**
Proposed Fixtures Details	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**		

Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	New or Existing-to-Remain
Individual Fixtures				
Troffer	L4	LIGHTING PLANS	LED	New
	Fixture Description: NEW STAR LIGHTING SCR24-HC_OC-L240-1C-A-UN (GRID FLANGE)			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Troffer	L3	LIGHTING PLANS	LED	New
	Fixture Description: NEW STAR LIGHTING SCR24-HC_OC-L240-1C-A-UN (GRID FLANGE)			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Troffer	L2	LIGHTING PLANS	LED	New
	Fixture Description: EATON - METALUX 24CGTS-L3C3-LOW-3500K			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Troffer	L1	LIGHTING PLANS	LED	New
	Fixture Description: EATON - METALUX 22CGTS-L3C3-LOW-3500K			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

TITLE

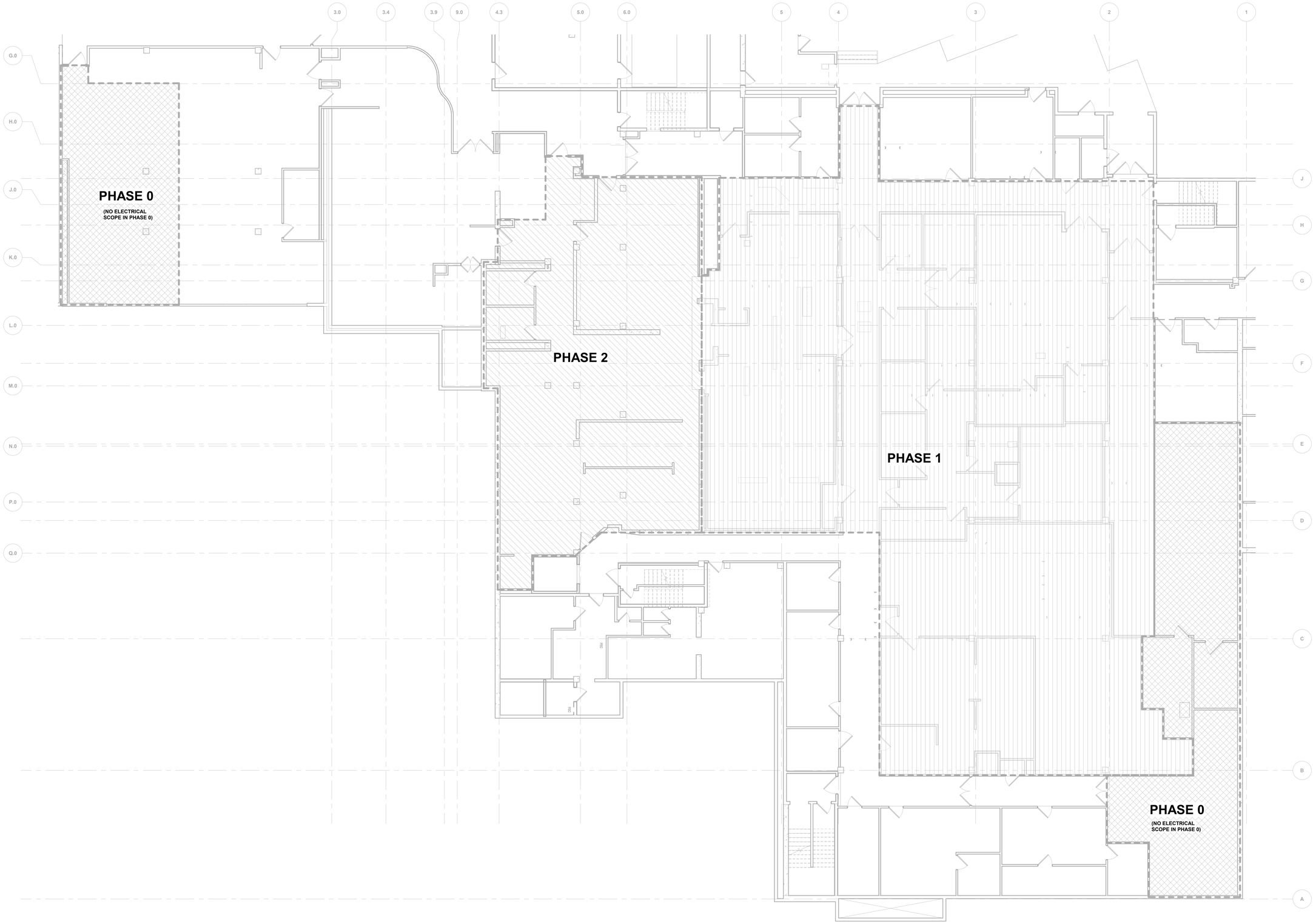
WSEC COMPLIANCE FORMS

SHEET NUMBER

E00-02

GENERAL NOTES:

1 **PHASING PLAN SHOWN FOR REFERENCE ONLY. SEE ARCHITECTURAL PLANS FOR FULL PHASING PLANS.**



PHASING DIAGRAM

1/8" = 1'-0"

N

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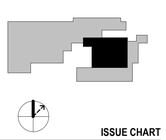
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

TITLE

OVERALL PHASING PLAN

SHEET NUMBER

E10-00

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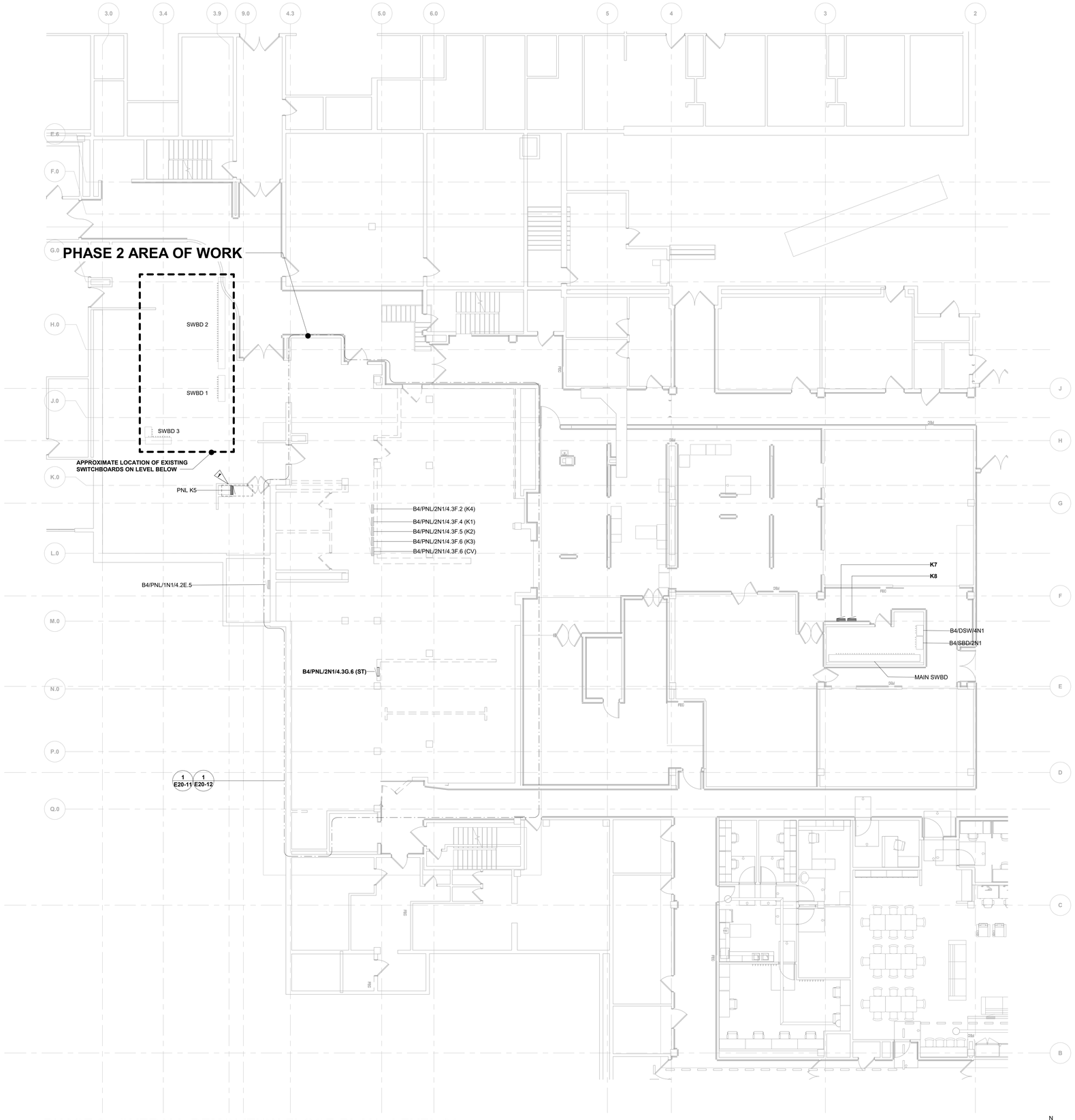

PHASE 2 - OVERALL DEMOLITION FLOOR PLAN - LEVEL 01

1/8" = 1'-0"

FLAG NOTES:

1 DEMOLISH EXISTING PANEL AND REMOVE ALL CONNECTIONS. REMOVE FEEDER BACK TO SOURCE SWITCHBOARD.

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

TITLE

PHASE 2 - OVERALL DEMOLITION FLOOR PLAN - LEVEL 01

SHEET NUMBER

E20-10

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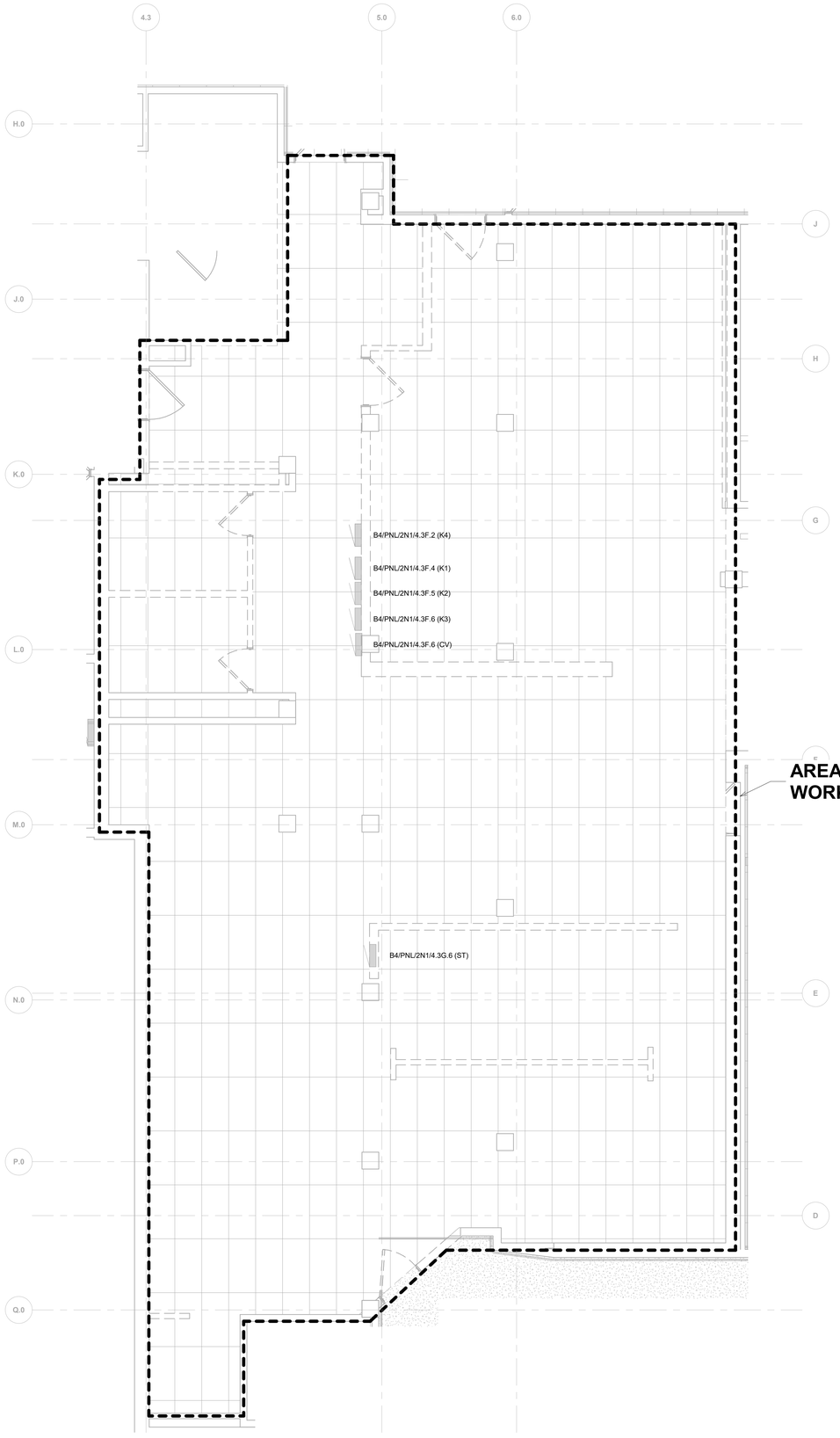

PHASE 2 - LIGHTING DEMOLITION PLAN - LEVEL 01

1/4" = 1'-0"

N

GENERAL NOTES:

1 MAINTAIN EXISTING SYSTEMS NOT IDENTIFIED FOR DEMOLITION. MAINTAINING EXISTING SYSTEMS INCLUDES RELOCATING THE SYSTEMS TO COORDINATE WITH WORK OF THIS CONTRACT, WHEN WORK OF THIS CONTRACT CANNOT BE DONE WHILE THE EXISTING SYSTEM IS IN ITS PRESENT LOCATION.

2 ANY EXISTING WIRING SERVING DEVICES TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE REROUTED TO MAINTAIN CIRCUIT CONTINUITY. CONTRACTOR SHALL ASSUME T HE RISK OF MAINTAINING EXISTING SYSTEMS, EXCEPT RELOCATION OF WIRING OF # 2AWG AND ABOVE SHALL BE CONSIDERED AN ADDITIONAL COST IF NOT SHOWN TO BE RELOCATED. IF SUCH WIRING IS FOUND THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF WIRING LOCATION, REASON IT MUST BE MOVED, AND COST OF RELOCATION AND RECEIVE THE OWNER'S APPROVAL BEFORE PROCEEDING WITH THE WORK.

3 EXAMINE DRAWINGS OF ALL DISCIPLINES TO DETERMINE WHERE WORK OF OTHER TRADES WILL OR IS LIKELY TO REQUIRE RELOCATION OF EXISTING SYSTEMS. REMOVE AND RELOCATE ELECTRICAL EQUIPMENT IN THE WAY OF WORK OF OTHER TRADES. EXACT RELOCATION REQUIREMENT OF EXISTING SYSTEMS TO REMAIN TO BE BASED ON DETAILED COORDINATION WITH OTHER TRADES. CONTRACTOR SHALL PROVIDE PROPOSED LOCATIONS OF RELOCATED DEVICES TO OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.

4 RELOCATION OF ANY SYSTEM SHALL BE PERMANENT. FIELD VERIFY ANY CONDUITS OR SYSTEM THAT MAY NEED TO BE RELOCATED AND NOTIFY ARCHITECT AND OWNER BEFORE PROCEEDING WITH WORK.

5 REROUTE EXISTING CIRCUITS THAT ARE AFFECTED AS A RESULT OF THIS CONTRACT THAT SERVE DEVICES TO REMAIN IN SERVICE.

6 DEMOLISH ALL EXISTING LIGHTING FIXTURES, DEVICES, AND WIRING BACK TO NEAREST JUNCTION BOX OR LAST DEVICE TO REMAIN WITHIN AREA OF WORK ON THIS SHEET. CONTRACTOR TO FIELD VERIFY EXISTING CIRCUITS. SEE ARCHITECTURAL SHEET A05-01 FOR FULL EXTENT OF DEMOLITION.

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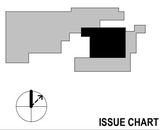

ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

TITLE

PHASE 2 - LIGHTING DEMOLITION PLAN - LEVEL 01

SHEET NUMBER

E20-11

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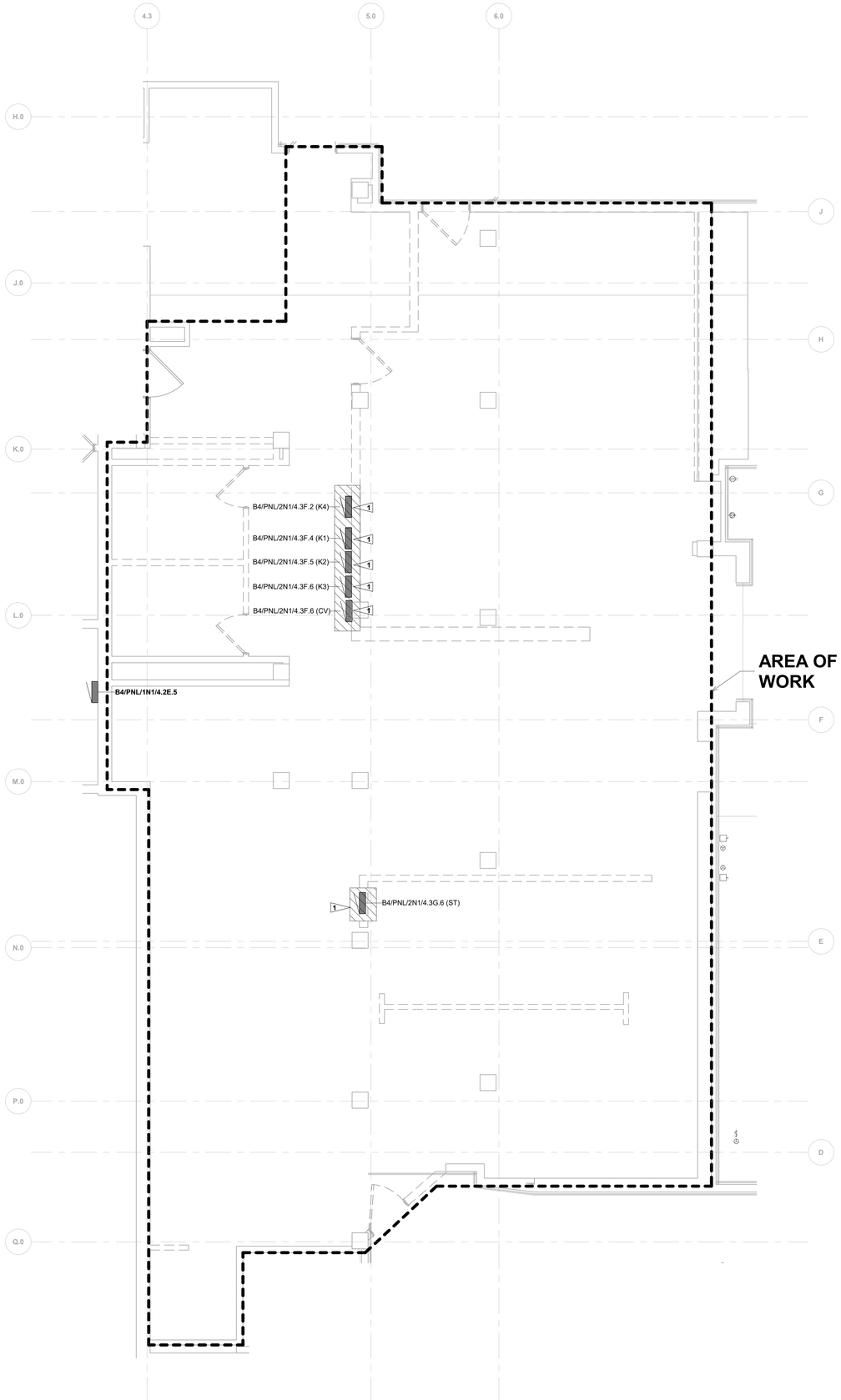

PHASE 2 - POWER DEMOLITION PLAN - LEVEL 01

1/4" = 1'-0"

GENERAL NOTES:

1 MAINTAIN EXISTING SYSTEMS NOT IDENTIFIED FOR DEMOLITION. MAINTAINING EXISTING SYSTEMS INCLUDES RELOCATING THE SYSTEMS TO COORDINATE WITH WORK OF THIS CONTRACT, WHEN WORK OF THIS CONTRACT CANNOT BE DONE WHILE THE EXISTING SYSTEM IS IN ITS PRESENT LOCATION.

2 ANY EXISTING WIRING SERVING DEVICES TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE REROUTED TO MAINTAIN CIRCUIT CONTINUITY. CONTRACTOR SHALL ASSUME THE RISK OF MAINTAINING EXISTING SYSTEMS, EXCEPT RELOCATION OF WIRING OF # 2AWG AND ABOVE SHALL BE CONSIDERED AN ADDITIONAL COST IF NOT SHOWN TO BE RELOCATED. IF SUCH WIRING IS FOUND THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF WIRING LOCATION, REASON IT MUST BE MOVED, AND COST OF RELOCATION AND RECEIVE THE OWNER'S APPROVAL BEFORE PROCEEDING WITH THE WORK.

3 EXAMINE DRAWINGS OF ALL DISCIPLINES TO DETERMINE WHERE WORK OF OTHER TRADES WILL OR IS LIKELY TO REQUIRE RELOCATION OF EXISTING SYSTEMS, REMOVE AND RELOCATE ELECTRICAL EQUIPMENT IN THE WAY OF WORK OF OTHER TRADES. EXACT RELOCATION REQUIREMENT OF EXISTING SYSTEMS TO REMAIN TO BE BASED ON DETAILED COORDINATION WITH OTHER TRADES. CONTRACTOR SHALL PROVIDE PROPOSED LOCATIONS OF RELOCATED DEVICES TO OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.

4 RELOCATION OF ANY SYSTEM SHALL BE PERMANENT. FIELD VERIFY ANY CONDUITS OR SYSTEM THAT MAY NEED TO BE RELOCATED AND NOTIFY ARCHITECT AND OWNER BEFORE PROCEEDING WITH WORK.

5 REROUTE EXISTING CIRCUITS THAT ARE AFFECTED AS A RESULT OF THIS CONTRACT THAT SERVE DEVICES TO REMAIN IN SERVICE.

6 DEMOLISH EXISTING RECEPTACLES AND WIRING BACK TO NEAREST JUNCTION BOX OR LAST DEVICE TO REMAIN WITHIN AREA OF WORK. CONTRACTOR TO FIELD VERIFY EXISTING CIRCUITS.

FLAG NOTES:

1 DEMOLISH EXISTING PANEL AND ALL BRANCH CIRCUITS TO DOWNSTREAM LOADS. REMOVE FEEDER BACK TO SOURCE SWITCHBOARD.

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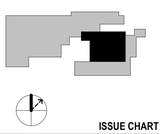

ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

TITLE

PHASE 2 - POWER DEMOLITION PLAN - LEVEL 01

SHEET NUMBER

E20-12

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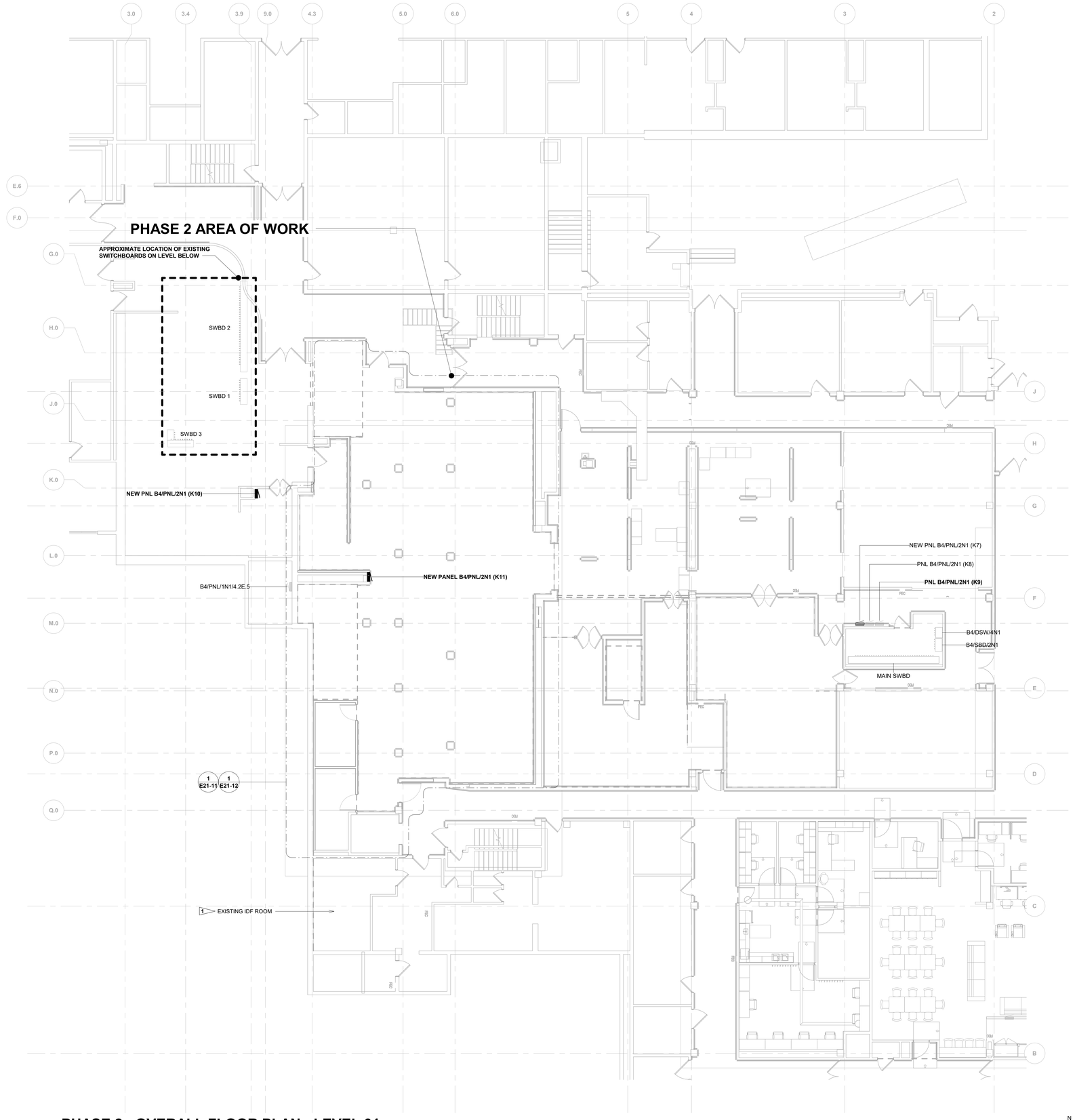

PHASE 2 - OVERALL FLOOR PLAN - LEVEL 01

1/8" = 1'-0"

GENERAL NOTES:

1 COORDINATE ALL WALL-MOUNTED DEVICES WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.

FLAG NOTES:

1 ROUTE ALL COMMUNICATION CABLING HOMERUNS TO EXISTING IDF ROOM. FIELD VERIFY IDF INFRASTRUCTURE, COORDINATE REQUIREMENTS WITH OWNER AND PROVIDE ADDITIONAL PATCH PANEL AS NECESSARY.

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ISSUE CHART

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PHASE 2 - OVERALL FLOOR PLAN - LEVEL 01

SHEET NUMBER

E21-10

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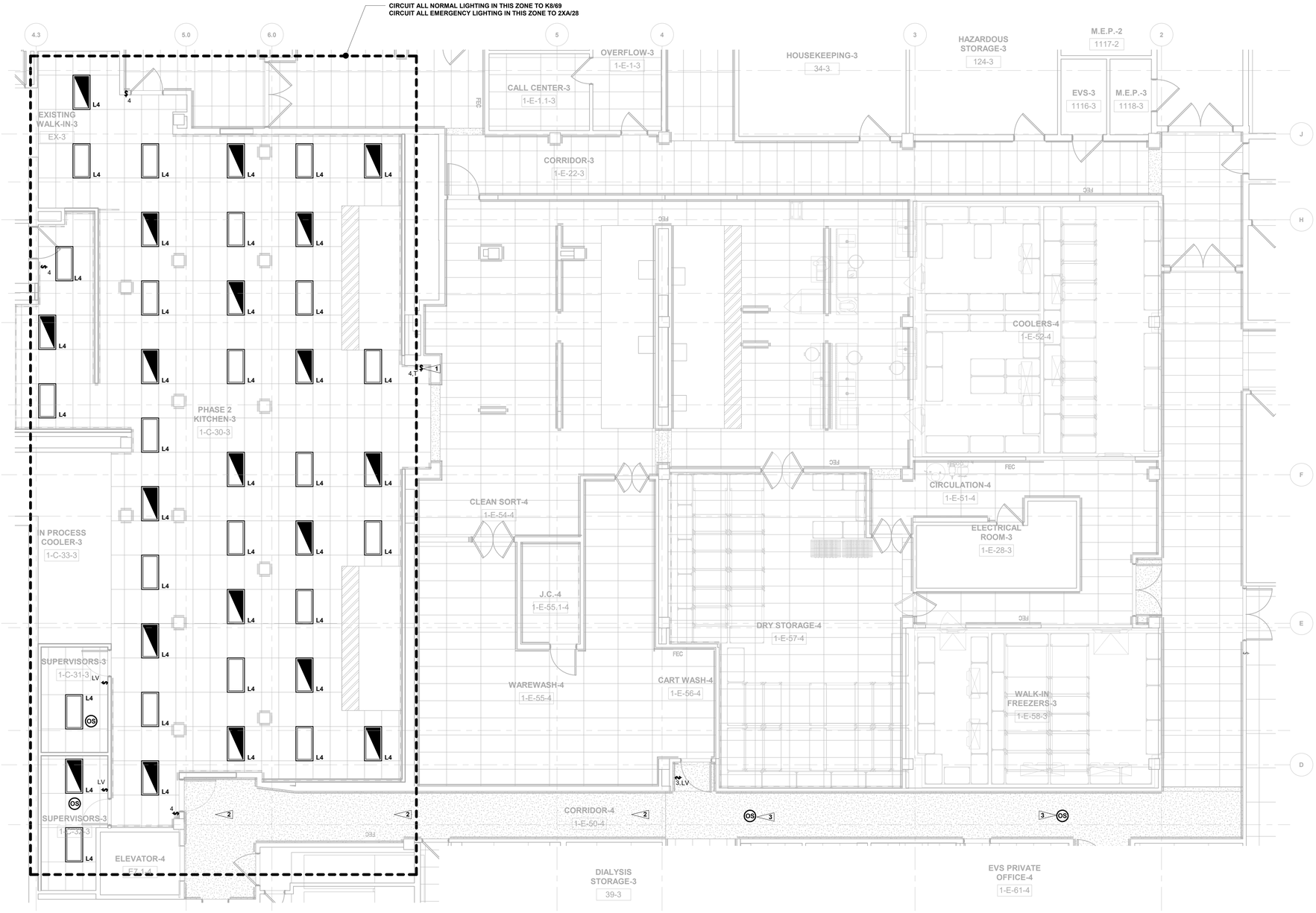

PHASE 2 - LIGHTING RCP - LEVEL 01

3/16" = 1'-0"

GENERAL NOTES:

1. LIGHTING DESIGN AND FIXTURE SELECTION IS BY OTHERS. VERIFY ALL SELECTIONS AND FIXTURE LOCATIONS WITH OWNER AND LIGHTING DESIGNER PRIOR TO COMMITTING TO A LIGHTING PACKAGE. REFER TO SHEET E80-00 FOR FIXTURE SCHEDULE.
2. ALL LIGHTING FIXTURES SHADED AS EMERGENCY EGRESS LIGHTING. ALL SHADED FIXTURES SHALL BE ON GENERATOR BACKUP CIRCUITED TO PANEL 2XA, AND SHALL TURN ON UPON LOSS OF UTILITY' POWER REGARDLESS OF THE STATE OF THE LIGHTING CONTROL DEVICE(S).
3. LIGHTING PLANS DENOTE FIXTURE POSITIONS RELATIVE TO THE PLAN DRAWINGS PROVIDED BY THE ARCHITECT. COORDINATE LOCATIONS WITH ARCHITECTURAL RCPs.
4. PROVIDE ALL NECESSARY COMPONENTS FOR A FULLY FUNCTIONING LIGHTING CONTROL SYSTEM THAT IS COMPLIANT WITH THE NEC AND ALL LOCAL MUNICIPAL CODES. SYSTEM SHALL CONFORM TO 2021 WA STATE ENERGY CODE REQUIREMENTS FOR CONTROLS. FINAL CONTROLS SHALL BE BY LIGHTING CONTROLS MANUFACTURER WHO WILL PROVIDE SHOP DRAWINGS AND CONTROLS WIRING DIAGRAMS.
5. WALK-IN FREEZERS AND COOLERS SHALL BE IN COMPLIANCE WITH 2021 WSEC SECTION C410. PROVIDE LIGHTING CONTROLS COMPLIANT WITH C410.3.11.
6. CORRIDOR AND KITCHEN LIGHTING SHALL BE CONTROLLED VIA TIME-CLOCK.

FLAG NOTES:

1. PROVIDE PROGRAMMABLE ASTRONOMICAL CLOCK TIME SWITCH, FIXTURES TO BE ON DURING BUSINESS HOURS AND OFF OTHERWISE. PROVIDED WITH 2-HR MANUAL OVERRIDE.
2. EXISTING LIGHTING IN THIS AREA TO REMAIN.
3. PROVIDE AUTO ON/AUTO OFF OCCUPANCY SENSOR. AUTO ON FUNCTION ALLOWED PER 2021 WSEC C405.2.1.1. THE SENSOR WILL OPERATE IN CONJUNCTION WITH TIMECLOCK AND AND CONTROL LIGHTING DURING THE TIMECLOCK OFF HOURS.

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ISSUE CHART

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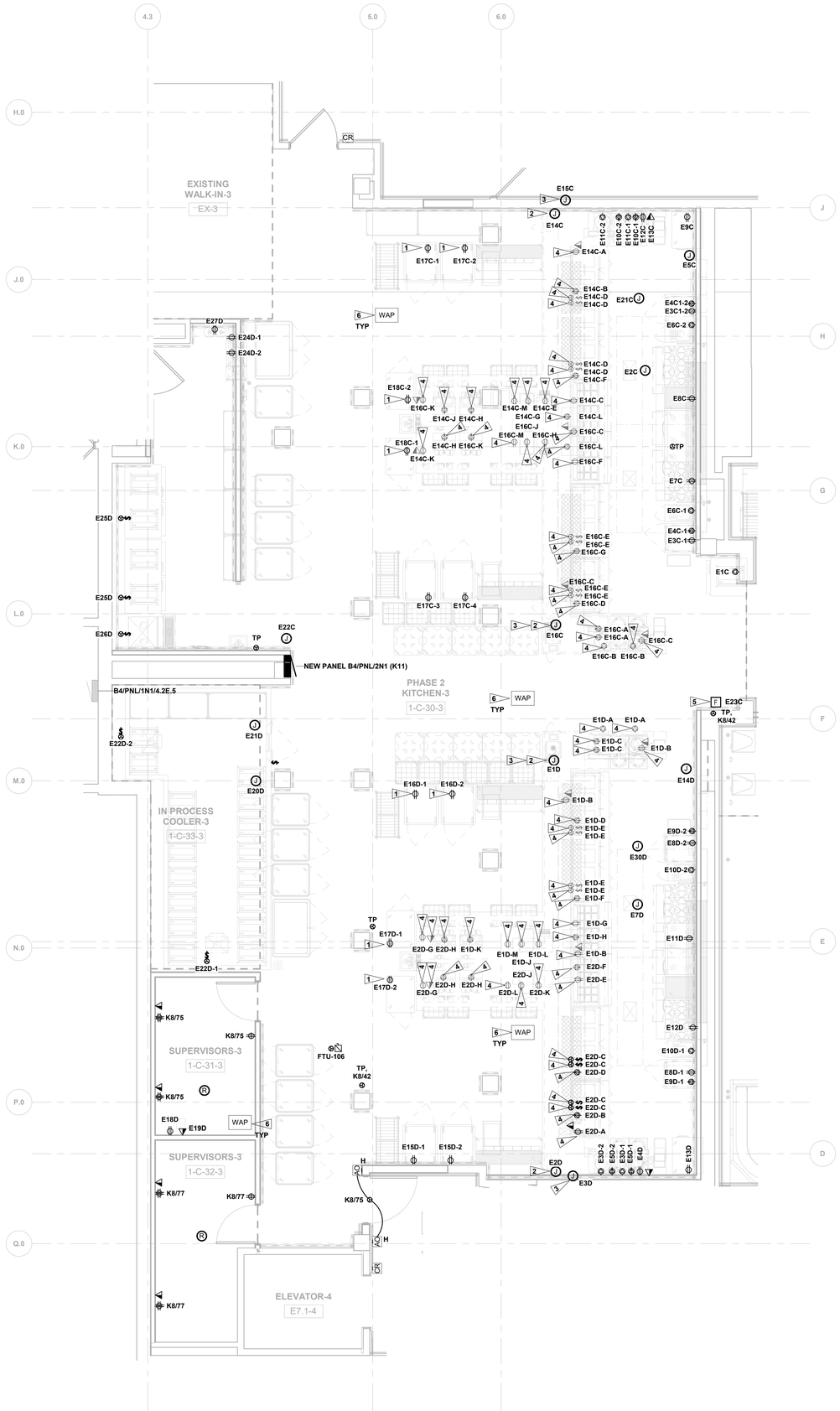
PHASE 2 - LIGHTING RCP - LEVEL 01

SHEET NUMBER

E21-11

6/26/2025 2:22:46 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/ELEC-MultiCare-Kitchen-R25.rvt



PHASE 2 - POWER FLOOR PLAN - LEVEL 01

1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT DEVICE LOCATIONS, MOUNTING HEIGHT, AND PLACEMENT REQUIREMENTS.
2. FIELD VERIFY CONDUIT ROUTING PRIOR TO COMMENCEMENT OF WORK.
3. PROVIDE FIRESTOPPING FOR ANY CONDUIT PENETRATIONS THROUGH RATED WALLS.
4. PROVIDE HALF-SWITCHED CONTROLLED RECEPTACLES WHERE REQUIRED PER WSEC C405.10 AND AS SINDICATED PER PLANS. THE RECEPTACLES SHALL BE PERMANENTLY LABELED PER NEC 406.3(E) AND CONTROLLED BY THE SAME AUTOMATIC CONTROL DEVICE THAT CONTROLS LIGHTING IN EACH SPACE. PROVIDE ALL WIRING AND RELAYS NECESSARY FOR A COMPLETELY FUNCTIONAL CONTROLS SYSTEM.
5. ALL BRANCH CIRCUIT WIRING SHALL BE #12 COPPER WITH FULL SIZE DEDICATED NEUTRAL CONDUCTOR UNLESS OTHERWISE NOTED, OR AS REQUIRED BY VOLTAGE DROP ANALYSIS. PROVIDE LARGER SIZE WIRE WHERE REQUIRED PER VOLTAGE DROP CALCULATIONS BASED ON THE RUN LENGTH AND THE INSTALLED CONDITIONS. PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR ALL BRANCH CIRCUITS. REFER TO E60-xx SERIES DRAWINGS FOR WIRING REQUIREMENTS FOR ALL MECHANICAL AND KITCHEN EQUIPMENT.
6. WALK-IN FREEZERS AND COOLERS SHALL BE IN COMPLIANCE WITH 2021 WSEC SECTION C410. PROVIDE LIGHTING CONTROLS COMPLIANT WITH C410.3.11.
7. PROVIDE SHUNT-TRIP FOR ALL CIRCUITS FEEDING DEVICES INSTALLED UNDER THE HOOD.
8. PROVIDE GFCI PROTECTION PER NEC 210.8(B)(2) FOR ALL RECEPTACLES INSTALLED IN KITCHEN AREA, VIA GFCI CIRCUIT BREAKERS IN KITCHEN PANELS.
9. PROVIDE LINE-OF-SIGHT DISCONNECTING MEANS FOR ALL HARDWIRED EQUIPMENT. COORDINATE SWITCH/DISCONNECT LOCATION FOR EACH WITH ARCHITECT AND KITCHEN DESIGNER.
10. REFER TO FOOD AND BEVERAGE PACKAGE FOR ADDITIONAL DETAILS AND NOTES ON KITCHEN DESIGN AND REQUIREMENTS. POWER REQUIREMENTS INDICATED MAY NOT BE EXACT FOR ALL EQUIPMENT. EC TO VERIFY ALL LOAD DATA AND CONNECTION TYPES WITH FINAL EQUIPMENT SUBMITTALS. VERIFY LOAD DATA FOR ALL EXISTING AND OWNER PROVIDED EQUIPMENT WITH OWNER.
11. COORDINATE FOOD SERVICE LINE VOLTAGE AND LOW VOLTAGE CONTROLS WIRING CONNECTIONS LOCATION WITH FOOD SERVICE VENDOR.
12. FIRE ALARM DESIGN IS BY FIRE ALARM SUBCONTRACTOR. ALL NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM.
13. OVERHEAD PAGING SYSTEM AND MODIFICATIONS TO THE EXISTING SYSTEM IS BY OTHERS (SUBCONTRACTOR). ANY NEW DEVICES ADDED SHALL BE COMPATIBLE WITH THE EXISTING PAGER SYSTEM.
14. PROVIDE 120V CONNECTIONS, CONTROL CONDUCTORS, AND PATHWAY AS REQUIRED FOR INTEGRATION OF HOOD FIRE SUPPRESSION SYSTEM ACTIVATION. THIS INCLUDES CONNECTION AT SYSTEM CONTACTS TO THE SHUNT TRIP CIRCUIT, THE GAS SOLENOID CIRCUIT, THE SIGNAL CONDUCTORS TO THE SUPPLY AND EXHAUST FAN CONTROLS, AND COORDINATING CONNECTION REQUIREMENTS TO ANY FIRE ALARM MONITORING MODULE. COORDINATE ALL CONNECTION REQUIREMENTS WITH HOOD MANUFACTURER. PROVIDE SEPARATE JUNCTION BOX AT HOOD CONTROLS FOR ALL CONDUCTOR SPLICES. HOOD CONTROL CABINET IS NOTA LISTED SPLICE POINT.
15. ROUTE ALL LOW VOLTAGE CABLING TO THE NEAREST EXISTING IDF ROOM, OR AS OTHERWISE DIRECTED BY OWNER IT TEAM. PROVIDE NEW PATCH PANELS IN THE IDF ROOM AS NECESSARY.

FLAG NOTES:

1. PROVIDE DUPLEX RECEPTACLE ON DROP CORD.
2. PROVIDE 208V/3P CONNECTION TO LOAD-CENTER FOR SERVING COUNTER. WIEING AND DEVICES IN COUNTER PREFABRICATED BY FACTORY.
3. PROVIDE SPARE CONDUIT WITH PULLSTRING TERMINATED IN WALL JUNCTION BOX FOR EDP/POS. VERIFY FINAL SIZE WITH OWNER.
4. INCLUDED UNDER CONNECTION TO LOAD CENTER. WIRING FROM LOAD CENTER AND DEVICE IS PREFABRICATED BY FACTORY.
5. PROVIDE EMPTY OCTAGON BOX FOR REMOTE PULL STATION AT 48" AFF MOUNTED WITHIN WALL. STUB OUT 3/4" CONDUIT FROM BOX TO CEILING ABOVE.
6. WAP LAYOUT IS PRELIMINARY FOR DESIGN INTENT. VERIFY EXACT REQUIREMENTS AND DEVICE PLACEMENT WITH OWNERS HEAT MAPS.

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6/30/25

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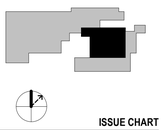
KEY PLAN



ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

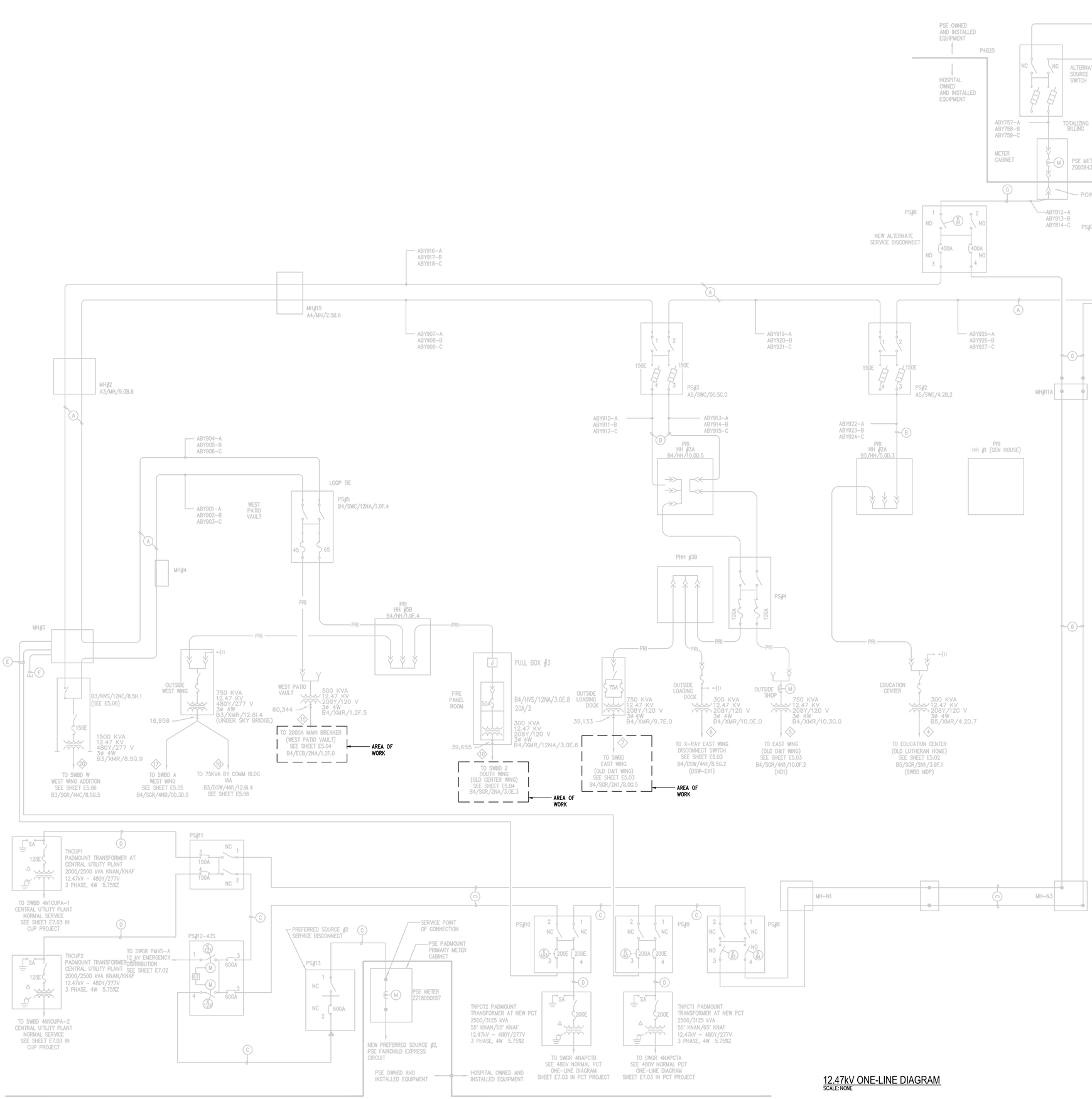
TITLE

PHASE 2 - POWER PLAN - LEVEL 01

SHEET NUMBER

E21-12

6/26/2025 2:22:48 PM Autodesk Docs://MultiCare - Good Samaritan Hospital Kitchen Expansion/ELEC-MultiCare-Kitchen-R25.rvt



12.47kV ONE-LINE DIAGRAM
SCALE:NONE

KEY INTERLOCKS AS FOLLOWS

TO CLOSE SWITCH	REQUIRES OPEN KEY(S) FROM
6–1	K72
7–2	K74
7–4	K72, K84
8–3	K84, K124 OR K72, K84
8–4	K83, K124 OR K61, K83
12–1	K61, K72, K124
12–4	K121

GENERAL NOTES:

1. ALL EXISTING ELECTRICAL INFRASTRUCTURE IS TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL EXISTING INFRASTRUCTURE SHOWN HEREIN IS BASED ON RECORD DRAWINGS AND HAS NOT BEEN FIELD VERIFIED IN FULL. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INFORMATION RELEVANT FOR THE SCOPE OF THIS PROJECT PRIOR TO START OF WORK.
3. ALL WIRING IS COPPER UNLESS NOTED OTHERWISE.
4. ALL WORK SHALL BE DONE ON DE-ENERGIZED EQUIPMENT ONLY AND ALL LOTO PROCEDURES SHALL BE FOLLOWED AS REQUIRED PER NEC AND OSHA.
5. PROVIDE OFF-HOURS LABOR AS REQUIRED TO SUPPORT OWNER HOURS OF OPERATION AND CONTINUITY OF SERVICE.

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KEY PLAN

ISSUE CHART

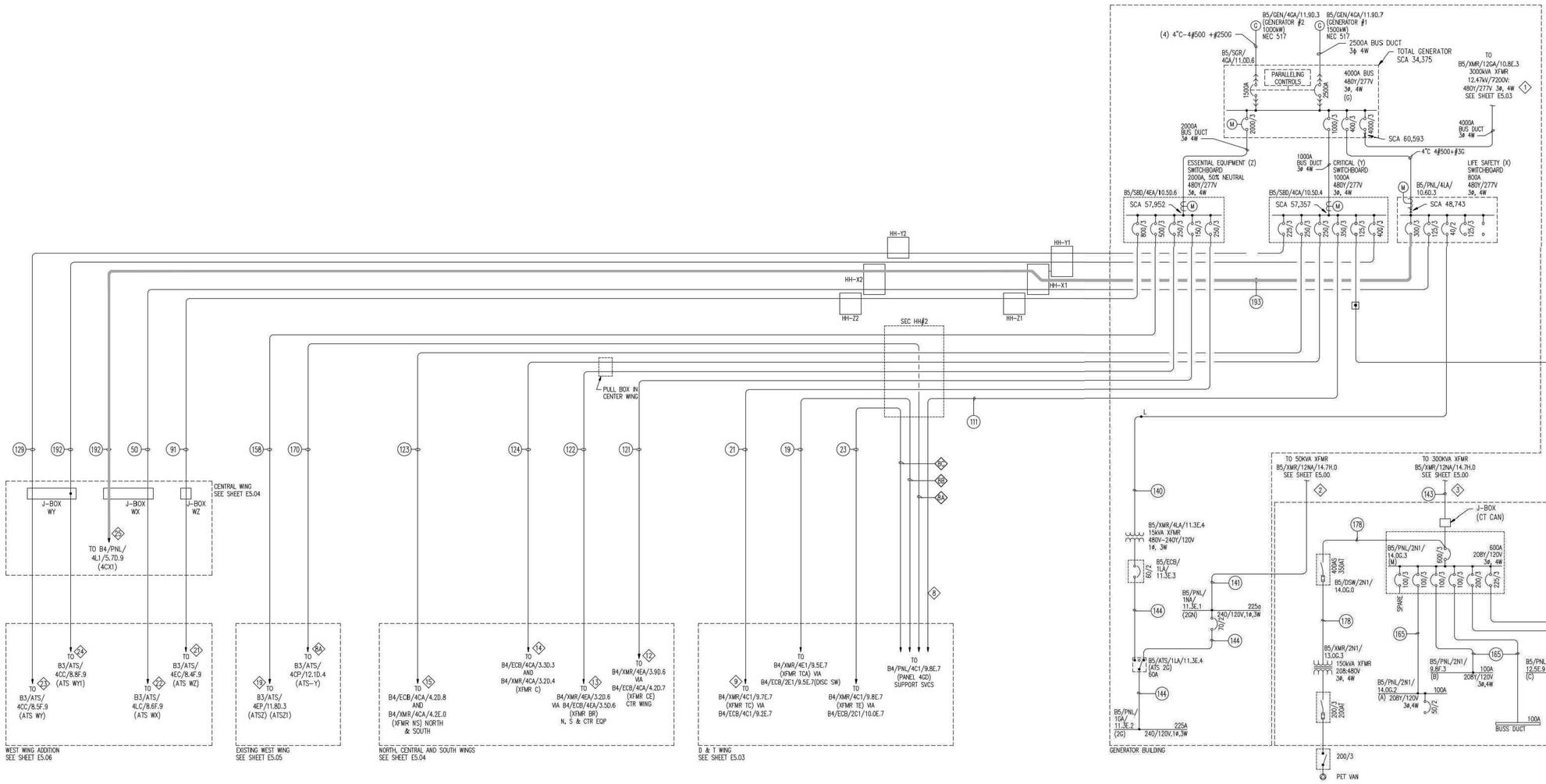
MARK	ISSUE	DATE
Job Number	B24-1111	

TITLE

ONE-LINE DIAGRAM- EXISTING 12.47kV

SHEET NUMBER

E50-00



ONE-LINE DIAGRAM - ESSENTIAL SYSTEM & FACILITY

FOR REFERENCE ONLY

GENERAL NOTES:

1. ALL EXISTING ELECTRICAL INFRASTRUCTURE IS TO REMAIN UNLESS NOTED OTHERWISE.
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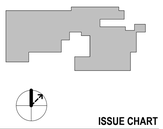
KEY PLAN



ISSUE CHART

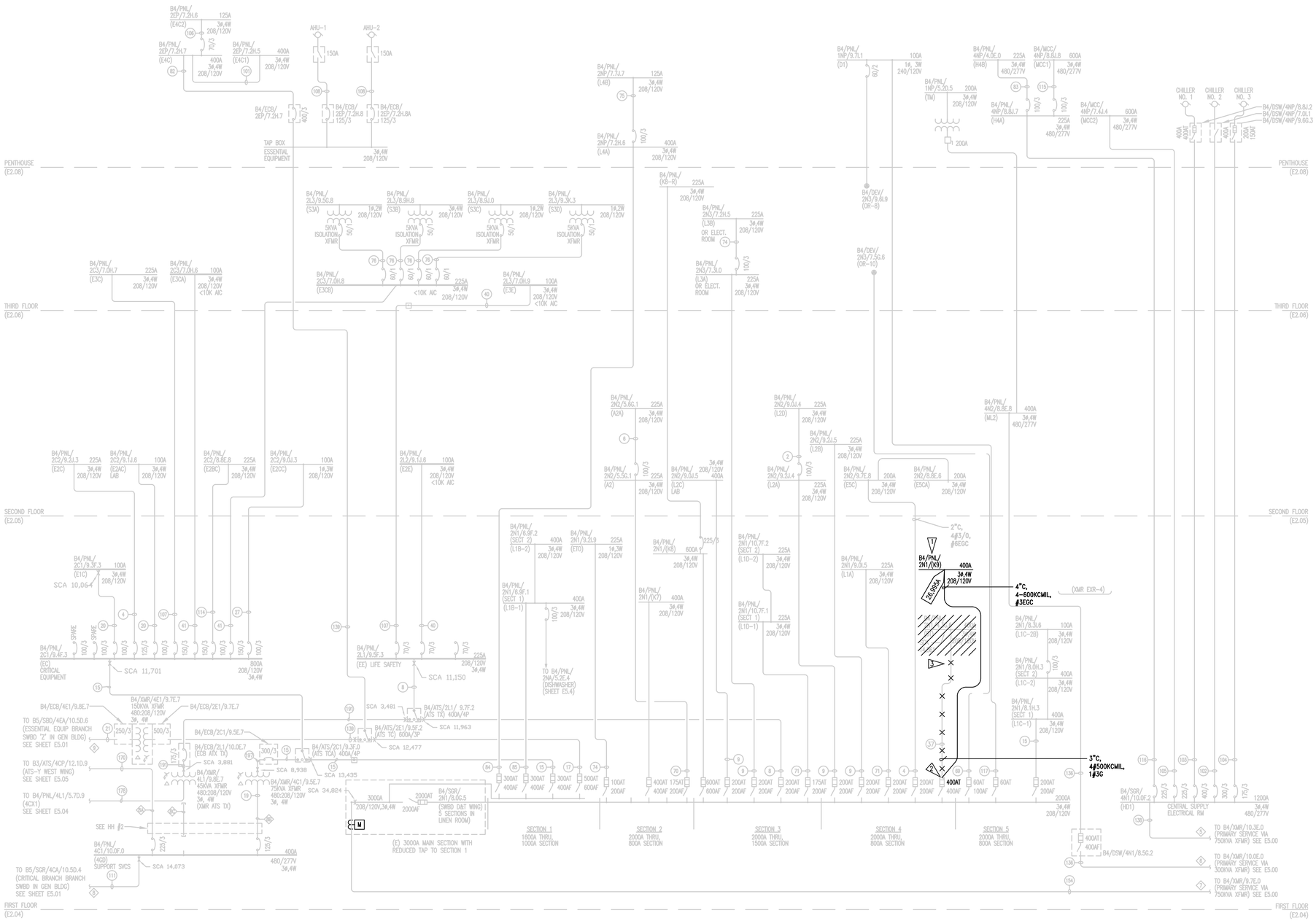
MARK	ISSUE	DATE
Job Number	B24-1111	

TITLE

ONE-LINE DIAGRAM - EXISTING ESSENTIAL SYSTEM & FACILITY

SHEET NUMBER

E50-01



D&T WING DISTRIBUTION WIRING DIAGRAM BELOW 1000V - MODIFIED

FLAG NOTES:

1. PROVIDE NEW PANEL WITH MAIN CIRCUIT BREAKER.
2. WHEN EXISTING FEEDER TO PANEL ST IS REMOVED, UTILIZE EXISTING OCP DEVICE TO FEED NEW PANEL K11. VERIFY FUSE SIZE AND REPLACE WITH 400A FUSE IF SMALLER.
3. DEMOLISH EXISTING PANEL AND ASSOCIATED FEEDER BACK TO SOURCE SWITCHBOARD.

GENERAL NOTES:

1. ALL EXISTING ELECTRICAL INFRASTRUCTURE IS TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL EXISTING INFRASTRUCTURE SHOWN HEREIN IS BASED ON RECORD DRAWINGS AND HAS NOT BEEN FIELD VERIFIED IN FULL. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INFORMATION RELEVANT FOR THE SCOPE OF THIS PROJECT.
3. ALL WIRING IS COPPER UNLESS NOTED OTHERWISE.
4. ALL WORK SHALL BE DONE ON DE-ENERGIZED EQUIPMENT ONLY AND ALL LOTO PROCEDURES SHALL BE FOLLOWED AS REQUIRED PER NEC AND OSHA.
5. REFER TO E8XX SERIES SHEETS FOR PANEL SCHEDULES AND LOAD CALCULATIONS.
6. PROVIDE OFF-HOURS LABOR AS REQUIRED TO SUPPORT OWNER HOURS OF OPERATION AND CONTINUITY OF SERVICE.

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

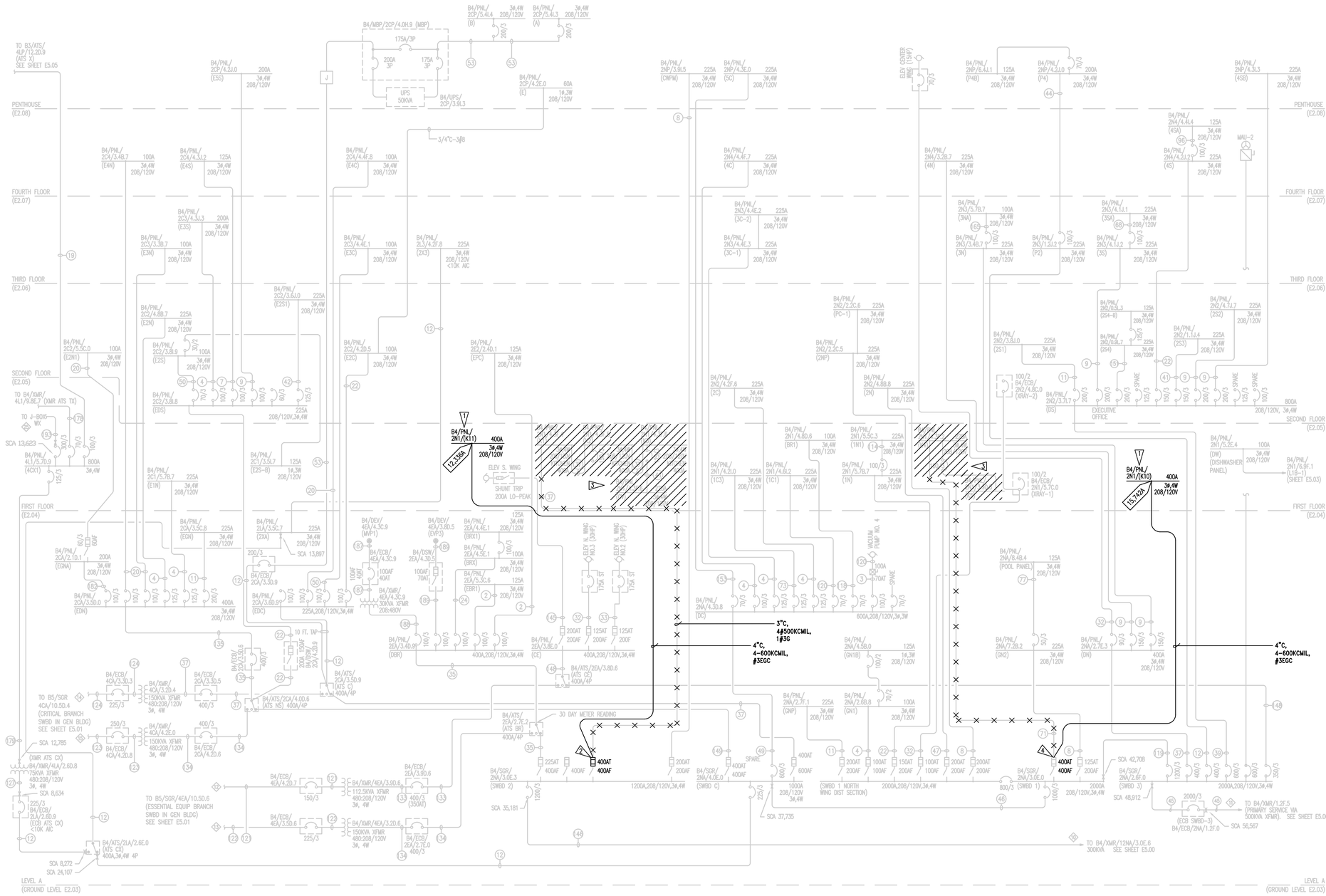
Job Number B24-1111

TITLE

PHASE 2 - ONE-LINE DIAGRAM - D & T WING

SHEET NUMBER

E50-03-2



NORTH, CENTRAL & SOUTH WING DISTRIBUTION WIRING DIAGRAM BELOW 1000V - MODIFIED

FLAG NOTES:

1. PROVIDE NEW PANEL WITH MAIN CIRCUIT BREAKER.
2. UTILIZE EXISTING OCP DEVICE TO FEED NEW PANEL. VERIFY FUSE SIZE AND REPLACE WITH 400A FUSE IF SMALLER.
3. DEMOLISH EXISTING PANELS AND ASSOCIATED FEEDERS BACK TO SOURCE SWITCHBOARD.
4. WHEN EXISTING FEEDER TO PANEL K4 IS REMOVED, PROVIDE NEW 400A OCP DEVICE TO FEED NEW PANEL K10.

GENERAL NOTES:

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5. REFER TO E8XX SERIES SHEETS FOR PANEL SCHEDULES AND LOAD CALCULATIONS.
6. PROVIDE OFF-HOURS LABOR AS REQUIRED TO SUPPORT OWNER HOURS OF OPERATION AND CONTINUITY OF SERVICE.

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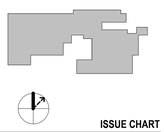

ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

TITLE
PHASE 2 - ONE-LINE DIAGRAM- NORTH CENTRAL & SOUTH WINGS

SHEET NUMBER
E50-04-2

FEEDER SCHEDULE – ABOVE 600V

PLAN MARK	# OF SETS	CONDUIT SIZE	CONDUCTORS	GROUNDED NEUTRAL CU	REMARKS
A	1		3 #4/0 15kV Cables	#4/0 600V	
B	1		3 #1/0 15kV Cables	#1/0 600V	
C	1	6"	3 #750 15kV Cables	#4/0 600V	
	1	6"	SPARE		
D	1	4"	3 #2 15kV Cables	#2 600V	
	1	4"	SPARE		
E	1	4"	SPARE		
F	2	4"	SPARE		
G	1	4"	3 #250 15kV Cables	#4/0 600V	
H	1	4"	3 #250 15kV Cables	#4/0 600V	
	1	6"	SPARE		

GENERAL NOTES:

1. FEEDER SCHEDULE SHOW BOTH NEW, MODIFIED, AND EXISTING FEEDERS.
2. ALL CONDUCTORS ARE COPPER, UNLESS OTHERWISE NOTED.
3. CONDUIT PATHWAYS USED AS GROUND CONDUCTOR UNLESS NOTED OTHERWISE.

FOR REFERENCE ONLY

FEEDER SCHEDULE – BELOW 600V

PLAN MARK	# OF SETS	CONDUIT SIZE	CONDUCTORS	GROUND	REMARKS
1	1	3/4"	3 #8		
2	1	1-1/4"	4 #2		
3	1	1-1/4"	3 #2 + 1#4N	1 #8	
4	1	2"	4 #2		
5	1	1-1/4"	4 #1	1 #8	
6	1	1-1/2"	4 #1	1 #6	
7	1	2"	4 #1		
8	1	2"	4 #3/0		
9	1	2"	4 #3/0	1 #6	
10	1	2"	3 #4/0	1 #4	
11	1	2-1/2"	4 #3/0		
12	1	2-1/2"	4 #4/0	1 #4	
13	1	2-1/2"	4 #4/0		
14	1	3"	3 #300 kcMIL	#2	
15	1	3"	4 #350 kcMIL	#4	
16	1	3"	3 #400 kcMIL	#3	
17	2	3"	3 #300 kcMIL + 1 #2/0		
18	1	1"	4 #6	1 #10	
19	1	1-1/2"	3 #1/0	1 #2	
20	1	1-1/2"	4 #2	1 #8	
21	1	2-1/2"	3 #250 kcMIL		
22	1	2"	4 #1/0		
23	1	3/4"	3 #4	1 #8	
24	1	1-1/4"	4 #3	1 #8	
25	1	3"	3 #600kcMIL	1 #2	
26	1	3/4"	3 #8	1 #8	
27	1	1 1/4"	3 #2	1 #8	
28	1	2-1/2"	3 #500kcMIL	1 #2	
29	1	3-1/2"	4 #500kcMIL		
30	1	3-1/2"	3 #400 kcMIL	1 #3	
31	7	3-1/2"	3 #500 kcMIL	1 #4/0	
	3	3-1/2"	Spare		
32	1	1-1/4"	3 #2		
33	1	2"	3 #2/0		
34	1	2-1/2"	3 #350 kcMIL + 1 #6 N		
35	1	3"	3 #500 kcMIL + 1 #3/0 N	1 #3	
36	2	2"	4 #3/0		
37	1	3"	4 #500 kcMIL	1 #3	
38	1	2-1/2"	5 #3/0		
39	2	3"	4 #300 kcMIL		
40	1	1-1/4"	4 #4	1 #8	
41	1	2"	4 #1/0	1 #6	
42	1	1-1/2"	4 #1		
43	1	1"	4 #4		
44	1	2"	4 #1	1 #8	
45	6	4"	4 #500 kcMIL	1 #250 kcMIL	
46	3	3"	4 #500 kcMIL		
47	1	2-1/2"	3 #3/0 + 1 #1/0 N		
48	1	3"	4 #4/0	1 #4	
49	2	2-1/2"	4 #350 kcMIL		
50	1	1-1/2"	3 #2	1 #8	
51	1	1"	5 #6		
52	1	1-1/2"	Spare		
53	1	2"	4 #3/0	1 #4	
54	1	1-1/4"	4 #6		
55	2	3"	3 #350 kcMIL + 1 #3/0		
56	1	2"	3 #4/0		
57	1	1-1/4"	4 #3		
58	1	2"	3 #300 kcMIL		
59	1	3/4"	4 #8		
60	1	3/4"	4 #6		
61	1	2"	4 #2/0		
62	1	2"	4 #3/0, 5 #8 control		
63	1	1-1/2"	4 #4, 5 #8 control		
64	2	3"	3 #500 kcMIL		
65	1	3"	4 #500 kcMIL, 5 #8 control		
66	1	1/2"	3 #12		
67	1	1/2"	2 #12		
68	1	1-1/4"	4 #2	1 #6	
69			#1/0		
70			#2/0		
71			#3/0		
72			#4/0		
73			4#4/0		
74			#2		
75			#4		
76			#6		
77			#8		
78			#10		
79			#12		
80			500 kcMIL		
81			500 kcMIL, 1 #1 Neutral		
82			500 kcMIL, 1 #3 Neutral		
83			#1		
84			300 kcMIL		
85			350 kcMIL		
86			#2, #4 Neutral		
87			#6, #8 Neutral		
88	1	2-1/2"	3 #400 kcMIL	1 #6	
89	3	4"	3 #500 kcMIL	1 #250	
90	1	1"	4 #6		
91	2	3-1/2"	3 #600 kcMIL	1 #1/0	
92	1	3-1/2"	3 #600 kcMIL	1 #2	
93	2	3"	4 #350 kcMIL	1 #1	
94	1	2"	4 #1/0	1 #1/0	
95	1	2-1/2"	5 #4/0	2 #6	
96	1	1-1/2"	4 #1/0	1 #6	
97	1	1"	3 #4	1 #8	
98	1	1-1/4"	3 #2	1#6	
99	1	1/2"	4 #10	1 #10	
100			#4/0, #1/0 Neutral		
101	1	3"	4 #500	1 #1	
102	1	3"	3 #350 kcMIL	1 #4	
103	1	3"	3 #400 kcMIL	1 #3	
104	1	2-1/2"	3 #3/0	1 #4	
105	1	2-1/2"	3 #4/0	1 #4	
106			#4, #6 Neutral		
107	1	2-1/2"	4 #2/0		

FEEDER SCHEDULE – BELOW 600V

PLAN MARK	# OF SETS	CONDUIT SIZE	CONDUCTORS	GROUND	REMARKS
108			3 #1/0 + 1 #3N	1 #3	
109			3 #750 kcMIL	1 #3	
110	1	3"	3 #1/0	1 #6	
111	1	3"	4 #400 kcMIL		
112	1	3"	4 #350 kcMIL		
113	1	1-1/2"	3 #2	1 #2	
114	1	1-1/2"	4 #1	1 #8	
115	1	1-1/4"	3 #1	1 #1	
116	1	3"	3 #4/0 + 1 #1/0 N	1 #6	
117	1	1-1/2"	2 #1/0	1 #8	
118	1	1-1/4"	2 #2		
119	3	3-1/2"	4 #600 kcMIL	1 #3/0	
120	1	2"	3 #4	1 #8	
121	1	2"	3 #1/0	1 #6	
122	1	2-1/2"	3 #250 kcMIL	1 #4	
123	1	3"	3 #250 kcMIL	1 #4	
124	1	3"	3 #4/0	1 #4	
125	1	1-1/4"	4 #4	1 #6	
126	1	2-1/2"	3 #3/0	1 #6	
127	1	2-1/2"	4 #4/0	1 #2	
128	1	3-1/2"	3 #600 kcMIL	1 #2	
129	1	3-1/2"	4 #750 kcMIL	1 #3	
130	1	3/4"	2 #8	1 #8	
131	3	3-1/2"	3 #500 kcMIL	1 #1/0	
132	2	1-1/2"	4 #1		
133	1		3 #350 kcMIL	1 #2	
134	1		4 #500 kcMIL	1 #1/0	
135	2		4 #250 kcMIL	1 #4	
136	2	2-1/2"	4 #3/0	1 #3/0	
137	6		3 #500 kcMIL		Ground conductor unverified
138	3	3"	4 #350 kcMIL		
139	1	3 1/2"	3 #750 KcMIL, 1#2 N	1#2	
140	1	3/4"	2 #8		
141	1	2 1/2"	3 #4/0		
142	1	1 1/2"	3 #1/0	1 #6	
143	2	2 1/2"	4 #300 KcM		
144	1	1"	3 #6		
145	1	1 1/4"	3 #1	1 #6	
146	6	–	4 #350 KCM		
147	1	1/2"	3 #10	1 #10	
148	1	2 1/2"	3 #350 KCM, #3 N	1 #3	
149	1	4"	4 #500 KCM		
150	1	1 1/4"	4 #1		
151	1	2"	4 #3/0, 1#6 IG	1 #6	
152	3	4"	4 #500 KCM		
153	1	1"	3 #4, #6 NEUT		
154	7	3 1/2"	3 #500 KCM, #4/0 NEUT		
155	1	3 1/2"	3 #600 KCM, #500 KCM NEUT	#2	
156	2	2 1/2"	4 #4/0	1#3	
157	2	2 1/2"	4 #4/0	1#2	
158	2	2 1/2"	3 #350 KCM	1 #2	
159	2	2 1/2"	4 #3/0, 1#1/0 ISOL GND	#3/0	
160	2	2"	3 #3/0		
161	1	2 1/2"	3 #350 KCM	#4	
162	2	2 1/2"	3 #250 KCM	#1	
163	1	2 1/2"	3 #350 KCM	#1/0	
164	1	2 1/2"	3 #4/0	#4	
165	1	1 1/4"	4 #2	#8	
166	1	3 1/2"	4 #500 KCM	#2	
167	1	3"	3 #500 KCM	#2	
168	1	–	4 #1/0	#2	Tap inside Panelboard
169	1	–	4 #2	#4	Tap inside Panelboard
170	1	3"	4 #1/0, 5#8 CONTROL	#6	
171	1	2"	3#2/0	#2/0	
172	1	3 1/2"	4#4/0	#4	
173	1	1 1/4"	2#2, #4 NEUT		
174	1	1 1/4"	2#1/0, #1 NEUT	#6	
175	1	1"	4#6	1#10	
176	1	3/4"	3#10	1#10	
177	1	1 1/2"	4#1	1#6	
178	1	1"	3#4	1#8	
179	1	1 1/2"	3#1	1#6	
180	1	3/4"	4#8	1#10	
181	1	3/4"	3#10	1#10	
182	1	1 1/4"	2#4, 1 #8 NEUT	1#6	
183	1	2"	3 #3/0	1#4	
184	1	1"	3 #2		
185	1	1 1/4"	2#2, 1#4 NEUT		
186	1	3/4"	3 #12		
187	1	3/4"	3 #6		
188	1	1 1/4"	3 #2	1#6	
189	1	1 1/4"	3#2, 1#4 NEUT	1#4	
190	1	2"	4 #4/0	1#6	
191	1	2"	4 #2/0	1#4	
192	1	4"	3#750, 1#600N	1#2/0	
193	1	3"	4#500	1#2	
194	1	2"	4#1/0	1#2	
195	2	2 1/2"	3#3/0	1#1	
196	1	1"	4#6	1#8	
197	1	3"	4#350	1#2	
198	2	2"	4#2/0	1#2	
199	2	3"	4#350	1#1/0	
200	1	3"	3#500 + 3/0N		
201	1	3"	3#500 + 3/0N	1#2	
202	1	2"	4#2	1#8	
203	1	1 1/4"	3#2	1#8	
204	1	3"	3#500 + #3N	1#3	
205	1	3 1/2"	4#600	1#3	

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6/30/2025

100% CD SET 06/30/2025

MultiCare Good Samaritan Hospital Kitchen
401 15th Ave SE,
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WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

TITLE

EXISTING CAMPUS ONE-LINE FEEDER SCHEDULE

SHEET NUMBER

E50-07

FBS SCHEDULE - PHASE 2

EQPT#	EQPT DES-CRIPTION	VOLTAGE	PHASE	AMPS	kVA	CONNECTION TYPE	PANEL NAME	CIRCUIT NUMBER	NUMBER OF CB POLES	OCP	FEEDER	NOTES
E1C	ROLL-IN REFRIGERATOR	120	1	6.3	0.8	NEMA 5-15	K9	1	1	15/1	1/2"C, 3#12	
E2C	HOOD LIGHTS	120	1	15.0	1.8	HARDWIRED	K9	14	1	20/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E3C-1	WORKTOP FREEZER	120	1	4.8	0.6	NEMA 5-15	K9	3	1	15/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E3C-2	WORKTOP FREEZER	120	1	4.8	0.6	NEMA 5-15	K9	7	1	15/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E4C-1	FLASH BAKE OVEN	208	1	40.0	8.3	NEMA 6-50	K10	21,23	1	50/2	3/4"C, 2#6, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E4C-2	FLASH BAKE OVEN	208	1	40.0	8.3	NEMA 6-50	K10	22,24	1	50/2	3/4"C, 2#6, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E5C	FIRE SUPPRESSION SYSTEM	120	1	10.0	1.2	HARDWIRED	K9	2	1	20/1	1/2"C, 3#12	
E6C-1	PASTA COOKER	208	3	21.7	7.8	NEMA 15-30	K10	1,3,5	3	30/3	3/4"C,3#10, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E6C-2	PASTA COOKER	208	3	21.7	7.8	NEMA 15-30	K10	2,4,6	3	30/3	3/4"C,3#10, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E7C	REFRIGERATED EQUIPMENT STAND	120	1	4.2	0.5	NEMA 5-15	K9	11	1	15/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E8C	REFRIGERATED EQUIPMENT STAND	120	1	4.2	0.5	NEMA 5-15	K9	15	1	15/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E9C	ROLL-IN REFRIGERATOR	120	1	5.1	0.6	NEMA 5-15	K9	19	1	15/1	1/2"C, 3#12	
E10C-1	MOBILE HEATED DISH DISPENSER	208	1	4.6	1.0	NEMA 6-15	K10	27,29	2	15/2	1/2"C, 2#12, #12G	
E10C-2	MOBILE HEATED DISH DISPENSER	208	1	4.6	1.0	NEMA 6-15	K10	28,30	2	15/2	1/2"C, 2#12, #12G	
E11C-1	BASE ACTIVATOR	208	3	23.5	8.5	NEMA 430R9W	K10	9,11,13	3	30/3	3/4"C,3#10, #10G	
E11C-2	BASE ACTIVATOR	208	3	23.5	8.5	NEMA 430R9W	K10	10,12,14	3	30/3	3/4"C,3#10, #10G	
E12C	PRINTER	120	1	15.0	1.8	NEMA 5-20	K9	4	1	20/1	1/2"C, 3#12	
E13C	COMM DATA PORT										2-CAT6	
E14C	ROOM SERVICE COUNTER LOAD CENTER	208	3	141.7	51.0	HARDWIRED	K9	37,39,41	3	200/3	2"C, 3#3/0, #3/0N, #6G	
E14C-A	*PRINTER*	*120*	*1*	*15.0*	*1.8*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=1*
E14C-B	*3-WELL MOBILE HEATED CABINET*	*208*	*1*	*19.3*	*4.0*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=1*
E14C-C	*REFRIGERATED SANDWICH PREP UNIT*	*120*	*1*	*4.8*	*0.6*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=1*
E14C-D	*HEAT LAMP*	*208*	*1*	*9.7*	*8.1*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=4*
E14C-E	*CONVEYOR TOASTER*	*120*	*1*	*15.0*	*1.8*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=1*
E14C-F	*4-WELL MOBILE HEATED CABINET*	*208*	*1*	*25.8*	*5.4*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=1*
E14C-G	*COUNTERTOP FOOD WELL*	*120*	*1*	*8.3*	*1.0*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=1*
E14C-H	*COFFEE BREWER*	*208*	*1*	*30.0*	*6.2*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=2*
E14C-J	*COFFEE BREWER*	*208*	*1*	*30.0*	*12.5*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=1*
E14C-K	*SCANNER*	*120*	*1*	*15.0*	*3.6*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=2*
E14C-L	*MICROWAVE OVEN*	*208*	*1*	*20.0*	*4.2*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=1*
E14C-M	*CONVENIENCE OUTLET*	*120*	*1*	*16.0*	*1.9*	*PREFABRICATED BY FACTORY WITH ITEM E14C*						*QTY=1*
E15C	EMPTY CONDUIT FOR EDP/POS SYSTEMS & PRINTERS										1"C	
E16C	ROOM SERVICE COUNTER LOAD CENTER	208	3	159.4	57.4	HARDWIRED	K9	38,40,42	3	200/3	2"C, 3#3/0, #3/0N, #6G	
E16C-A	*MOBILE HEATED DISH DISPENSER*	*208*	*1*	*4.6*	*1.9*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=2*
E16C-B	*BASE ACTIVATOR*	*208*	*3*	*23.5*	*16.9*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=2*
E16C-C	*PRINTER*	*120*	*1*	*15.0*	*5.4*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=3*
E16C-D	*3-WELL MOBILE HEATED CABINET*	*208*	*1*	*19.3*	*4.0*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=1*
E16C-E	*HEAT LAMP*	*208*	*1*	*9.7*	*8.1*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=4*
E16C-F	*REFRIGERATED SANDWICH PREP UNIT*	*120*	*1*	*4.8*	*0.6*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=1*
E16C-G	*4-WELL MOBILE HEATED CABINET*	*208*	*1*	*25.8*	*5.4*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=1*
E16C-H	*CONVEYOR TOASTER*	*120*	*1*	*15.0*	*1.8*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=1*
E16C-J	*COUNTERTOP FOOD WELL*	*120*	*1*	*8.3*	*1.0*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=1*
E16C-K	*COFFEE BREWER*	*208*	*1*	*30.0*	*6.2*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=1*
E16C-L	*MICROWAVE OVEN*	*208*	*1*	*20.0*	*4.2*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=1*
E16C-M	*CONVENIENCE OUTLET*	*120*	*1*	*16.0*	*1.9*	*PREFABRICATED BY FACTORY WITH ITEM E16C*						*QTY=1*
E17C-1	AIR CURTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K9	21	1	15/1	1/2"C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING
E17C-2	AIR CURTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K9	23	1	15/1	1/2"C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING
E17C-3	AIR CURTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K9	25	1	15/1	1/2"C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING
E17C-4	AIR CURTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K9	27	1	15/1	1/2"C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING
E18C-1	MOBILE AIR CURTAIN REFRIGERATOR	120	1	7.1	0.9	NEMA 5-15	K9	29	1	15/1	1/2"C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING
E18C-2	MOBILE AIR CURTAIN REFRIGERATOR	120	1	7.1	0.9	NEMA 5-15	K9	31	1	15/1	1/2"C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING
E19C	COMM DATA PORT										2-CAT6	
E20C	EMPTY CONDUIT FOR EDP/POS SYSTEMS & PRINTERS										1"C	
E21C	HOOD CONTROLLER	120	1	15.0	1.8	HARDWIRED	K9	6	1	20/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E22C	MARVEL CONTROL PANEL	120	1	15.0	1.8	HARDWIRED	K9	10	1	20/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E23C	REMOTE PULL STATION											
E1D	ROOM SERVICE COUNTER LOAD CENTER	208	3	152.5	54.9	HARDWIRED	K11	55,57,59	3	200/3	2"C, 3#3/0, #3/0N, #6G	
E1D-A	*BASE ACTIVATOR*	*208*	*3*	*23.5*	*16.9*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=2*
E1D-B	*PRINTER*	*120*	*1*	*15.0*	*5.4*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=3*
E1D-C	*MOBILE HEATED PLATE DISPENSER*	*208*	*1*	*4.6*	*1.9*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=2*
E1D-D	*3-WELL MOBILE HEATED CABINET*	*208*	*1*	*19.3*	*4.0*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=1*
E1D-E	*HEAT LAMP*	*208*	*1*	*9.7*	*8.1*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=4*
E1D-F	*4-WELL MOBILE HEATED CABINET*	*208*	*1*	*25.8*	*5.4*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=1*
E1D-G	*REFRIGERATE-D SANDWICH PREP UNIT*	*120*	*1*	*4.8*	*0.6*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=1*
E1D-H	*COUNTERTOP FOOD WELL*	*120*	*1*	*14.0*	*1.7*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=1*
E1D-J	*COUNTERTOP FOOD WELL*	*120*	*1*	*8.3*	*1.0*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=1*
E1D-K	*COFFEE BREWER*	*208*	*1*	*30.0*	*6.2*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=1*
E1D-L	*CONVEYOR TOASTER*	*120*	*1*	*15.0*	*1.8*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=1*
E1D-M	*CONVENIENCE OUTLET*	*120*	*1*	*16.0*	*1.9*	*PREFABRICATED BY FACTORY WITH ITEM E1D*						*QTY=1*
E2D	ROOM SERVICE COUNTER LOAD CENTER	208	3	128.8	46.4	HARDWIRED	K10	55,57,59	3	200/3	2"C, 3#3/0, #3/0N, #6G	
E2D-A	*PRINTER*	*120*	*1*	*15.0*	*1.8*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=1*
E2D-B	*3-WELL MOBILE HEATED CABINET*	*208*	*1*	*19.3*	*4.0*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=1*
E2D-C	*HEAT LAMP*	*120*	*1*	*9.7*	*4.7*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=4*
E2D-D	*4-WELL MOBILE HEATED CABINET*	*208*	*1*	*25.8*	*5.4*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=1*
E2D-E	*REFRIGERATED SANDWICH PREP UNIT*	*120*	*1*	*4.8*	*0.6*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=1*
E2D-F	*MICROWAVE OVEN*	*208*	*1*	*14.0*	*2.9*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=1*
E2D-G	*SCANNER*	*120*	*1*	*15.0*	*3.6*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=2*
E2D-H	*COFFEE BREWER*	*208*	*1*	*30.0*	*18.7*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=3*
E2D-J	*COUNTER TOP HOT FOOD WELL*	*120*	*1*	*8.3*	*1.0*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=1*
E2D-K	*CONVEYOR TOASTER*	*120*	*1*	*15.0*	*1.8*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=1*
E2D-L	*CONVENIENCE OUTLET*	*120*	*1*	*16.0*	*1.9*	*PREFABRICATED BY FACTORY WITH ITEM E2D*						*QTY=1*
E3D-1	BASE ACTIVATOR	208	3	23.5	8.5	NEMA 430R9W	K10	15,17,19	3	30/3	3/4"C,3#10, #10G	
E3D-2	BASE ACTIVATOR	208	3	23.5	8.5	NEMA 430R9W	K10	16,18,20	3	30/3	3/4"C,3#10, #10G	
E4D	PRINTER	120	1	15.0	1.8	NEMA 5-20	K11	27	1	20/1	1/2"C, 3#12	
E5D-1	MOBILE HEATED PLATE DISPENSER	208	1	4.6	1.0	NEMA 6-15	K11	23,25	2	15/2	1/2"C, 2#12, #12G	
E5D-2	MOBILE HEATED PLATE DISPENSER	208	1	4.6	1.0	NEMA 6-15	K11	15,17	2	15/2	1/2"C, 2#12, #12G	
E6D	EMPTY CONDUIT FOR EDP/POS SYSTEMS & PRINTERS										1"C	
E7D	HOOD LIGHTS	120	1	15.0	1.8	HARDWIRED	K11	29	1	20/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E8D-1	WORK TOP FREEZER	120	1	4.8	0.6	NEMA 5-15	K11	33	1	15/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E8D-2	WORK TOP FREEZER	120	1	4.8	0.6	NEMA 5-15	K11	37	1	15/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E9D-1	FLASH BAKE OVEN	208	1	40.0	8.3	NEMA 6-50	K11	9,11	2	50/2	3/4"C, 2#6, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E9D-2	FLASH BAKE OVEN	208	1	40.0	8.3	NEMA 6-50	K11	10,12	2	50/2	3/4"C, 2#6, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E10D-1	PASTA COOKER	208	3	19.5	7.0	NEMA 15-30	K11	1,3,5	3	30/3	3/4"C, 3#10, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E10D-2	PASTA COOKER	208	3	19.5	7.0	NEMA 15-30	K11	2,4,6	3	30/3	3/4"C, 3#10, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E11D	REFRIGERATED EQUIPMENT STAND	120	1	4.2	0.5	NEMA 5-15	K11	41	1	15/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E12D	REFRIGERATED EQUIPMENT STAND	120	1	4.2	0.5	NEMA 5-15	K11	51	1	15/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.
E13D	WORKTOP REFRIGERATOR	120	1	5.1	0.6	NEMA 5-15	K11	45	1	15/1	1/2"C, 3#12	
E14D	FIRE SUPPRESSION SYSTEM	120	1	10.0	1.2	HARDWIRED	K11	30	1	20/1	1/2"C, 3#12	
E15D-1	AIR CUTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K11	47	1	15/1	1/2"C, 3#12	
E15D-2	AIR CUTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K11	54	1	15/1	1/2"C, 3#12	
E16D-1	AIR CUTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K11	49	1	15/1	1/2"C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING
E16D-2	AIR CUTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K11	52	1	15/1	1/2"C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING
E17D-1	FREEZER	120	1	7.1	0.9	NEMA 5-15	K11	50	1	15/1	1/2"C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING
E17D-2	FREEZER	120	1	7.1	0.9	NEMA 5-15	K11	48	1	15/1	1/2"C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING
E18D	INTELLIGATE TEMPERATURE MONITORING SYSTEM	120	1	1.0	0.1	NEMA 5-15	K11	46	1	15/1	1/2"C, 3#12	
E19D	COMM DATA PORT										2-CAT6	
E20D	LIGHTS	120	1	5.0	0.6	HARDWIRED	K1	34	1	20/1	1/2"C, 3#12	
E21D	DOOR HEATER ALARM	120	1	5.0	0.6	HARDWIRED	K1	36	1	20/1	1/2"C, 3#12	
E22D-1	BLOWER COOLER	120	1	15.0	1.8	HARDWIRED	K1	38	1	20/1	1/2"C, 3#12	
E22D-2	BLOWER COOLER	120	1	15.0	1.8	HARDWIRED	K1	40	1	20/1	1/2"C, 3#12	
E24D-1	AMBIENT CARBONATOR	120	1	15.0	1.8	NEMA 5-20	K10	31	1	20/1	1/2"C, 3#12	
E24D-2	AMBIENT CARBONATOR	120	1	15.0	1.8	NEMA 5-20	K10	33	1	20/1	1/2"C, 3#12	
E25D-1	ROLL IN HEATED CABINET	208	1	13.9	2.9	HARDWIRED	K11	19,21	2	20/2	1/2"C, 2#12, #12G	
E25D-2	ROLL IN HEATED CABINET	208	1	13.9	2.9	HARDWIRED	K11	16,18	2	20/2	1/2"C, 2#12, #12G	
E26D	CUBE ICE MAKER	208	1	7.8	1.6	HARDWIRED	K11	20,22	2	15/2	1/2"C, 2#12, #12G	
E27D	CO2 SENSOR	120	1	1.0	0.1	NEMA 5-15	K11	42	1	15/1	1/2"C, 3#12	
E28D	COMM DATA PORT										2-CAT6	
E29D	EMPTY CONDUIT FOR EDP/POS SYSTEMS & PRINTERS										1"C	
E30D	HOOD CONTROLLER	120	1	15.0	1.8	HARDWIRED	K11	44	1	20/1	1/2"C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.

NOTES:

1. ALL WIRING SHALL BE COPPER UNLESS OTHERWISE NOTED ON PLANS.
2. EC TO VERIFY ALL CONNECTION TYPES WITH FINAL EQUIPMENT SUBMITTALS.
3. EC TO PROVIDE GFCI PROTECTION WHERE REQUIRED PER NEC (ALL KITCHEN OUTLETS AND ALL OUTLETS INSTALLED WITHIN 6' OF A SINK ELSEWHERE).
4. EC TO PROVIDE LINE-OF-SIGHT DISCONNECT SWITCHES FOR ALL HARDWIRED EQUIPMENT PER NEC 422.31.
5. ALL EQUIPMENT LOCATED UNDER HOOD SHALL BE ON SHUNT-TRIP CIRCUIT BREAKERS.
6. POWER/AMP/KVA VALUES INDICATED ARE PRELIMINARY AND MAY NOT BE EXACT FOR ALL EQUIPMENT. CONFIRM VALUES WITH FINAL SUBMITTALS AND FBS DRAWINGS.
7. PANEL ASSIGNMENT IS PRELIMINARY TO HELP WITH ESTIMATING CIRCUIT LENGTHS AND BREAKER NEEDS.
8. REFER TO FOOD SERVICE DRAWINGS FOR EQUIPMENT LOCATIONS.

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BRIAN S. STEPHENS
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61301025

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WA 98372

MultiCare Good Samaritan Hospital

MULTICARE

100% CD SET 06/30/2025

KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

TITLE

PHASE 2 - EQUIPMENT COORDINATION SCHEDULES

SHEET NUMBER

E80-02

PANEL SCHEDULE — B4/PNL/2N1/4.1F.4(K9)-NEW

208 | Y/ 120 | VOLTS | NORMAL POWER | BUS RATING: 400 | AMPS | LOCATION: ELECTRICAL ROOM | SPEC PANEL WITH: YES X NO
3 | -PHASE | PNL. MFR.: | MAIN BKR: MCB | MOUNTING: SURFACE | FEED-THRU LUGS X
4 | -WIRE | CAT. NO.: | A.I.C. RATING: 42,000 AIC SYM | FED FROM: B4/SGR/2N1 | DOUBLE LUGS X
200% NEUTRAL X

CKT NO	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CODE	LOAD (kVA)	BKR AMPS	PH	BKR AMPS	LOAD (kVA)	CODE	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CKT NO
1	E1C - ROLL IN REF	KITCHEN AREA C	K	0.80	15/1	-A-	20/1	1.20	Z	E5C - FIRE SUPPRESSION	KITCHEN AREA C	2
3	E3C-1 WORKTOP FREEZER	KITCHEN AREA C	K	0.60	15/1	-B-	20/1	1.80	S	E12C - PRINTER	KITCHEN AREA C	4
5	SHUNT TRIP FOR E3C-1					-C-	20/1	1.80	Z	E21C - HOOD CONTROLLER	KITCHEN AREA C	6
7	E3C-2 WORKTOP FREEZER	KITCHEN AREA C	K	0.60	15/1	-A-				SHUNT TRIP FOR E21C		8
9	SHUNT TRIP FOR E3C-2					-B-	20/1	1.80	Z	E22C - MARVEL CONTROL PANEL	KITCHEN AREA C	10
11	E7C - REFRIGERATED STAND	KITCHEN AREA C	K	0.50	15/1	-C-				SHUNT TRIP FOR E22C		12
13	SHUNT TRIP FOR E7C					-A-	20/1	0.80	L	E1C - HOOD LIGHTS	KITCHEN AREA C	14
15	E8C - REFRIGERATED STAND	KITCHEN AREA C	K	0.50	15/1	-B-				SHUNT TRIP FOR E1C		16
17	SHUNT TRIP FOR E8C					-C-	20/1			SPARE		18
19	E9C - ROLL IN REF	KITCHEN AREA C	K	0.60	15/1	-A-	20/1			SPARE		20
21	E17C-1 AIR CURTAIN REF	KITCHEN AREA C	K	1.00	15/1	-B-	20/1			SPARE		22
23	E17C-2 AIR CURTAIN REF	KITCHEN AREA C	K	1.00	15/1	-C-	20/1			SPARE		24
25	E17C-3 AIR CURTAIN REF	KITCHEN AREA C	K	1.00	15/1	-A-	20/1			SPARE		26
27	E17C-4 AIR CURTAIN REF	KITCHEN AREA C	K	1.00	15/1	-B-	20/1			SPARE		28
29	E18C-1 MOBILE AIR CURTAIN REF	KITCHEN AREA C	K	1.00	15/1	-C-	20/1			SPARE		30
31	E18C-2 MOBILE AIR CURTAIN REF	KITCHEN AREA C	K	1.00	15/1	-A-	20/1			SPARE		32
33	SPARE				20/1	-B-	20/1			SPARE		34
35	SPARE				20/1	-C-	20/1			SPARE		36
37			K	17.00		-A-	20/1	19.13	K			38
39	E14C LOADCENTER	KITCHEN AREA C	K	17.00	200/3	-B-	20/1	19.13	K	E16C LOADCENTER	KITCHEN AREA C	40
41			K	17.00		-C-	20/1	19.13	K			42

CODES:

		CONNECTED LOAD		CALCULATED DEMAND LOAD	
H	= HVAC LOADS	0.00	kVA	0.00 kVA	(100%)
K	= KITCHEN EQUIPMENT	118.00	kVA	76.70 kVA	(65%)
L	= LIGHTING LOADS	0.80	kVA	1.00 kVA	(125%)
LM	= LARGEST SINGLE MOTOR	0.00	kVA	0.00 kVA	(125%)
M	= OTHER MOTOR LOADS	0.00	kVA	0.00 kVA	(100%)
NC	= NON-COINCIDENTAL LOADS	0.00	kVA	0.00 kVA	(0%)
R	= GENERAL USE RECEPTACLES	0.00	kVA	0.00 kVA	(50%+10kVA)
S	= DEDICATED RECEPTACLES	1.80	kVA	1.80 kVA	(100%)
Z	= MISC. OR APPLIANCES	4.80	kVA	4.80 kVA	(100%)
TOTALS:		125.40	kVA	84.30 kVA	
		348.1	AMPS	234 AMPS	

NOTES:
1. THIS IS A NEW PANELBOARD. PROVIDE GFCI BREAKERS FOR ALL CIRCUITS.

PANEL SCHEDULE — B4/PNL/2N1/4.1F.4(K10)-NEW

208 | Y/ 120 | VOLTS | NORMAL POWER | BUS RATING: 400 | AMPS | LOCATION: ELECTRICAL ROOM | SPEC PANEL WITH: YES X NO
3 | -PHASE | PNL. MFR.: | MAIN BKR: MCB | MOUNTING: SURFACE | FEED-THRU LUGS X
4 | -WIRE | CAT. NO.: | A.I.C. RATING: 22,000 AIC SYM | FED FROM: SWBD 2 | DOUBLE LUGS X
200% NEUTRAL X

CKT NO	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CODE	LOAD (kVA)	BKR AMPS	PH	BKR AMPS	LOAD (kVA)	CODE	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CKT NO
1								2.60	K			2
3	E6C-1-PASTA COOKER	KITCHEN AREA C	K	2.60	30/3	-B-	30/3	2.60	K	E6C-2-PASTA COOKER	KITCHEN AREA C	4
5			K	2.60		-C-		2.60	K			6
7	SHUNT TRIP FOR E6C-1					-A-				SHUNT TRIP FOR E6C-2		8
9			K	2.83		-B-		2.83	K			10
11	E11C-1-BASE ACTIVATOR	KITCHEN AREA C	K	2.83	30/3	-C-	30/3	2.83	K	E11C-2-BASE ACTIVATOR	KITCHEN AREA C	12
13			K	2.83		-A-		2.83	K			14
15			K	2.83		-B-		2.83	K			16
17	E3D-1-BASE ACTIVATOR	KITCHEN AREA D	K	2.83	30/3	-C-	30/3	2.83	K	E3D-2-BASE ACTIVATOR	KITCHEN AREA C	18
19			K	2.83		-A-		2.83	K			20
21	E4C-1-FLASH BAKE OVEN	KITCHEN AREA C	K	4.15	50/2	-B-	50/2	4.15	K	E4C-2-FLASH BAKE OVEN	KITCHEN AREA C	22
23			K	4.15		-C-		4.15	K			24
25	SHUNT TRIP FOR E4C-1					-A-				SHUNT TRIP FOR E4C-2		26
27	E10C-1-MOBILE HEATED DISH DISPENSER	KITCHEN AREA C	K	0.50	15/2	-B-	15/2	0.50	K	E10C-2-MOBILE HEATED DISH DISPENSER	KITCHEN AREA C	28
29			K	0.50		-C-		0.50	K			30
31	E24D-1 CARBONATOR	KITCHEN AREA D	K	1.80	20/1	-A-	20/1			SPARE		32
33	E24D-2 CARBONATOR	KITCHEN AREA D	K	1.80	20/1	-B-	20/1			SPARE		34
35	SPARE				20/1	-C-	20/1			SPARE		36
37			K	15.47		-A-	20/1			SPARE		38
39	E2D LOADCENTER	KITCHEN AREA D	K	15.47	200/3	-B-	20/1			SPARE		40
41			K	15.47		-C-	20/1			SPARE		42

CODES:

		CONNECTED LOAD		CALCULATED DEMAND LOAD	
H	= HVAC LOADS	0.00	kVA	0.00 kVA	(100%)
K	= KITCHEN EQUIPMENT	118.20	kVA	76.83 kVA	(65%)
L	= LIGHTING LOADS	0.00	kVA	0.00 kVA	(125%)
LM	= LARGEST SINGLE MOTOR	0.00	kVA	0.00 kVA	(125%)
M	= OTHER MOTOR LOADS	0.00	kVA	0.00 kVA	(100%)
NC	= NON-COINCIDENTAL LOADS	0.00	kVA	0.00 kVA	(0%)
R	= GENERAL USE RECEPTACLES	0.00	kVA	0.00 kVA	(50%+10kVA)
S	= DEDICATED RECEPTACLES	0.00	kVA	0.00 kVA	(100%)
Z	= MISC. OR APPLIANCES	0.00	kVA	0.00 kVA	(100%)
TOTALS:		118.20	kVA	76.83 kVA	
		328.1	AMPS	213 AMPS	

NOTES:
1. THIS IS A NEW PANELBOARD. PROVIDE GFCI BREAKERS FOR ALL CIRCUITS.

PANEL SCHEDULE — B4/PNL/2N1/4.1F.4(K11)-NEW

208 | Y/ 120 | VOLTS | NORMAL POWER | BUS RATING: 400 | AMPS | LOCATION: ELECTRICAL ROOM | SPEC PANEL WITH: YES X NO
3 | -PHASE | PNL. MFR.: SQUARE D | MAIN BKR: MCB | MOUNTING: SURFACE | FEED-THRU LUGS X
4 | -WIRE | CAT. NO.: NQ442L4C | A.I.C. RATING: 22,000 | AIC SYM | FED FROM: SWBD 2 | DOUBLE LUGS X
200% NEUTRAL X

CKT NO	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CODE	LOAD (kVA)	BKR AMPS	PH	BKR AMPS	LOAD (kVA)	CODE	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CKT NO
1			K	2.33		-A-		2.33	K			2
3	E10D-1-PASTA COOKER	KITCHEN AREA D	K	2.33	30/3	-B-	30/3	2.33	K	E10D-2-PASTA COOKER	KITCHEN AREA D	4
5			K	2.33		-C-		2.33	K			6
7	SHUNT TRIP FOR E10D-1					-A-				SHUNT TRIP FOR E10D-2		8
9	E9D-1-FLASH BAKE OVEN	KITCHEN AREA D	K	4.15	50/2	-B-	50/2	4.15	K	E9D-2-FLASH BAKE OVEN	KITCHEN AREA D	10
11			K	4.15		-C-		4.15	K			12
13	SHUNT TRIP FOR E9D-1					-A-				SHUNT TRIP FOR E9D-2		14
15	E5D-2-HEATED PLATE DISPENSER	KITCHEN AREA D	K	0.50	15/2	-B-	20/2	1.45	K	E25D-2-ROLL IN HEATED CABINET	KITCHEN AREA D	16
17			K	0.50		-C-		1.45	K			18
19	E25D-1-ROLL IN HEATED CABINET	KITCHEN AREA D	K	1.45	20/2	-A-	15/2	0.80	K	E26D-CUBE ICE MAKER	KITCHEN AREA D	20
21			K	1.45		-B-		0.80	K			22
23	E5D-1 MOBILE HEAT DISPENSER		K	0.50	15/2	-C-						24
25			K	0.50		-A-	20/3			SPARE		26
27	E4D PRINTER	KITCHEN AREA D	S	1.80	20/1	-B-						28
29	E7D HOOD LIGHTS	KITCHEN AREA D	L	1.80	20/1	-C-	20/1	1.20		E14D - FIRE SUPPRESSION SYSTEM	KITCHEN AREA D	30
31	SHUNT TRIP FOR E7D					-A-				SHUNT TRIP FOR E14D		32
33	E8D-1 WORK TOP FREEZER	KITCHEN AREA D	K	0.60	15/1	-B-	20/1	0.60	L	E20D - LIGHTS	KITCHEN AREA D	34
35	SHUNT TRIP FOR E8D-1					-C-	20/1	0.60	Z	E21D - HEATER ALARM	KITCHEN AREA D	36
37	E8D-2 WORK TOP FREEZER	KITCHEN AREA D	K	0.60	15/1	-A-	20/1	1.80	K	E22D-1 BLOWER COIL	KITCHEN AREA D	38
39	SHUNT TRIP FOR E8D-2					-B-	20/1	1.80	K	E22D-2 BLOWER COIL	KITCHEN AREA D	40
41	E11D EQP STAND	KITCHEN AREA D	K	0.50	15/1	-C-	20/1	0.10	Z	E27D - CO2 SENSOR	KITCHEN AREA D	42
43	SHUNT TRIP FOR E11D					-A-	20/1	1.80	Z	E30D - HOOD CONTROLLER	KITCHEN AREA D	44
45	E13D REFIGERATOR	KITCHEN AREA D	K	0.60	15/1	-B-	15/1	0.10	Z	E18D - TEMP MONITORING	KITCHEN AREA D	46
47	E15D-1 AIR CUTAIN REFRIGERATOR	KITCHEN AREA D	K	1.00	15/1	-C-	15/1	0.90	K	E17D-2 - FREEZER	KITCHEN AREA D	48
49	E15D-1 AIR CUTAIN REFRIGERATOR	KITCHEN AREA D	K	1.00	15/1	-A-	15/1	0.90	K	E17D-1 - FREEZER	KITCHEN AREA D	50
51	E12D - REFRIGERATED STAND	KITCHEN AREA D	K	0.50	15/1	-B-	15/1	1.00	K	E16D-2 AIR CURTAIN REFRIGERATOR	KITCHEN AREA D	52
53	SHUNT TRIP FOR E12D					-C-	15/1	1.00	K	E15D-2 AIR CURTAIN REFRIGERATOR	KITCHEN AREA D	54
55			K	18.30		-A-						56
57	E1D LOADCENTER		K	18.30	200/3	-B-	X/3			SPACE		58
59			K	18.30		-C-						60

CODES:

		CONNECTED LOAD		CALCULATED DEMAND LOAD	
H	= HVAC LOADS	0.00	kVA	0.00 kVA	(100%)
K	= KITCHEN EQUIPMENT	107.10	kVA	69.62 kVA	(65%)
L	= LIGHTING LOADS	2.40	kVA	3.00 kVA	(125%)
LM	= LARGEST SINGLE MOTOR	0.00	kVA	0.00 kVA	(125%)
M	= OTHER MOTOR LOADS	0.00	kVA	0.00 kVA	(100%)
NC	= NON-COINCIDENTAL LOADS	0.00	kVA	0.00 kVA	(0%)
R	= GENERAL USE RECEPTACLES	0.00	kVA	0.00 kVA	(50%+10kVA)
S	= DEDICATED RECEPTACLES	1.80	kVA	1.80 kVA	(100%)
Z	= MISC. OR APPLIANCES	3.80	kVA	3.80 kVA	(100%)
TOTALS:		115.10	kVA	78.22 kVA	
		319.5	AMPS	217 AMPS	

NOTES:
1. THIS IS A NEW PANELBOARD. PROVIDE GFCI BREAKERS FOR ALL CIRCUITS.

LOAD CALCULATIONS:

SWITCHBOARD	B4/SGR/2N1 (SWBD D&T WING)	208V, 2000A	kVA	AMPS @ 208V
	EXISTING 12-MONTH PEAK DEMAND METERED LOAD		213.30	592.06
	+25% PER NEC 220.87		53.33	148.01
	+0% SEASONAL ADJUSTMENT (CONTINOUS OCCUPANCY)		0.00	0.00
	+ NEW ADDED LOAD FROM B4/PNL/2N2 (E5CA)		3.46	9.61
	+ NEW ADDED LOAD FROM B4/PNL/2N1 (K7)		81.30	225.84
	+ NEW ADDED LOAD FROM B4/PNL/2N1 (K8 AND K8-R)		178.22	495.05
	+ NEW ADDED LOAD FROM B4/PNL/2N1 (K9)		84.30	234.17
NEW TOTAL LOAD ON	**SWITCHBOARD**	**B4/SGR/2N1 (SWBD D&T WING)**	**613.90**	**1705.29**

SWITCHBOARD	B4/SGR/2NA/2.6F.0 (SWBD 3)	208V, 2000A	kVA	AMPS @ 208V
	EXISTING PEAK DEMAND 30-DAY METERED LOAD		103.32	286.78
	+25% PER NEC 220.87		25.83	71.70
	+50% SEASONAL ADJUSTMENT		51.66	143.39
	+ NEW ADDED HVAC LOAD FROM MAU-1		195.66	543.09
	+ NEW ADDED LOAD FROM SWBD 1 (FROM K10 AND 2XA)		79.59	220.92
NEW TOTAL LOAD ON	**SWITCHBOARD**	**B4/SGR/2NA/2.6F.0 (SWBD 3)**	**456.06**	**1266.83**

SWITCHBOARD	B4/SGR/2NA/3.0E.0 (SWBD 1)	208V, 1200A	kVA	AMPS @ 208V
	EXISTING PEAK DEMAND 30-DAY METERED LOAD		103.32	286.78
	+25% PER NEC 220.87		25.83	71.70
	+50% SEASONAL ADJUSTMENT		51.66	143.39
	+ NEW ADDED LOAD FROM B4/PNL/2LA/3.5C.7 (2XA)		2.76	7.67
	+ NEW ADDED LOAD FROM B4/PNL/2N1 (K10)		76.83	213.26
NEW TOTAL LOAD ON	**SWITCHBOARD**	**B4/SGR/2NA/3.0E.0 (SWBD 1)**	**260.40**	**722.79**

SWITCHBOARD	B4/SGR/2NA/3.0E.3 (SWBD 2)	208V, 1200A	kVA	AMPS @ 208V
	EXISTING PEAK DEMAND 30-DAY METERED LOAD		70.92	196.85
	+25% PER NEC 220.87		17.73	49.21
	+50% SEASONAL ADJUSTMENT		35.46	98.43
	+ NEW ADDED LOAD FROM B4/PNL/2N1 (K11)		78.22	217.10
NEW TOTAL LOAD ON	**SWITCHBOARD**	**B4/SGR/2NA/3.0E.3 (SWBD 2)**	**202.33**	**561.59**

MGSH UTILITY LOAD CALCULATION (METER #ZZ18050157)	12,470V VOLTS, 600A	kVA	AMPS @ 12.47KV
	EXISTING 12-MONTH PEAK DEMAND METERED LOAD	4596.00	212.79
	+25% PER NEC 220.87	1149.00	53.20
	+ NEW ADDED LOAD B4/SGR/2N1 (SWBD D&T WING)	347.28	16.08
	+ NEW ADDED LOAD FROM B4/SGR/2NA/2.6F.0 (SWBD 3)	275.25	12.74
	+ NEW ADDED LOAD FROM B4/SGR/2NA/3.0E.3 (SWBD 2)	78.22	3.62
NEW TOTAL LOAD ON	**MGSH UTILITY LOAD CALCULATION (METER #ZZ18050157)**	**6445.74**	**298.43**

LOAD CALCULATIONS - EMERGENCY POWER

ATS	B4/ATS/2LA/2,6E/0 (ATS CX)	208V, 400A	kVA	AMPS @ 208V
	LOAD FROM PANEL 2XA (ATS FEEDS DIRECTLY INTO THIS PANEL)		13.59	37.71
NEW TOTAL LOAD ON	**ATS**	**B4/ATS/2LA/2,6E/0 (ATS CX)**	**13.59**	**37.74**

XFR	B4/XMR/4LA/2.6D.8	75kVA	kVA	AMPS @ 208V
	LOAD FROM PANEL 2XA (ATS FED DIRECTLY FROM TRANSFORMER)		13.59	37.71
NEW TOTAL LOAD ON	**XFR**	**B4/XMR/4LA/2.6D.8**	**13.59**	**37.74**

PANEL	B4/PNL/4LA/5.7D.9 (4CX1)	480V, 300A	kVA	AMPS @ 480V
	EXISTING PEAK DEMAND 30-DAY METERED LOAD		76.30	91.82
	+25% PER NEC 220.87		19.08	22.95
	+50% SEASONAL ADJUSTMENT		38.15	45.91
	+ NEW ADDED LOAD FROM B4/PNL/2LA/3.5C.7 (2XA)		2.76	3.32
NEW TOTAL LOAD ON	**PANEL**	**B4/PNL/4LA/5.7D.9 (4CX1)**	**136.29**	**164.00**

SWITCHBOARD	X	480V, 400A	kVA	AMPS @ 480V
	EXISTING PEAK DEMAND 30-DAY METERED LOAD		107.60	129.48
	+25% PER NEC 220.87		26.90	32.37
	+50% SEASONAL ADJUSTMENT		53.80	64.74
	+ NEW ADDED LOAD FROM B4/PNL/2LA/3.5C.7 (2XA)		2.76	3.32
NEW TOTAL LOAD ON	**SWITCHBOARD**	**X**	**191.06**	**229.92**

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MultiCare Good Samaritan Hospital

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KEY PLAN

ISSUE CHART

MARK	ISSUE	DATE

Job Number B24-1111

TITLE

PHASE 2 - PANEL SCHEDULES & OVERALL LOAD CALCULATIONS

SHEET NUMBER

E80-04