COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO 64081

PROJECT DIRECTORY

OWNER	**COSTCO WHOLESALE** 730 LAKE DR. ISSAQUAH, WA 98027 T: 425.313.8100
ARCHITECT	**MG2 CORPORATION, P.C.** 1101 SECOND AVE. SUITE 100 SEATTLE, WA 98101 T: (206) 962-6500 F: (206) 962-6499 PROJECT MANAGER:WILLIE MAK
STRUCTURAL ENGINEER	**ENGINEERS NORTHWEST** 19020 33RD AVE W SUITE 530 LYNNWOOD, WA 98036 T: (206) 525-7560 F: (206) 522-6698 CONTACT: JOSE PARADA JOSEP@ENGINEERSNW.COM
MECHANICAL ENGINEER	**TEI - MECHANICAL** 830 N. RIVERSIDE DR. SUITE 200 RENTON, WA 98057 T: (425) 970-3753 F: (425) 970-3756 CONTACT: ANN TIEU ATIEU@TEI-ENGINEERING.COM
ELECTRICAL ENGINEER	**TEI - ELECTRICAL** 830 N. RIVERSIDE DR. SUITE 200 RENTON, WA 98057 T: (425) 970-3753 F: (425) 970-3756 CONTACT: TOM LEITCH TLEITCH@TEI-ENGINEERING.COM
FIRE SPRINKLER ENGINEER	**NRG** 7511 GREENWOOD AVE. N. #600 SEATTLE, WA 98103 T: (612) 284-5697 CONTACT: RICH ANDERSON RANDERSON@NRGFIRECONSULTING.COM
REFRIGERATION	**CUSHING TERRELL** 111 3RD AVENUE SOUTH, SUITE 220 MINNEAPOLIS, MN 55401 T: (602) 272-2659 F: (602) 233-3780 LOCAL CONTACT: KEVIN WHEELER KEVINWHEELER@CUSHINGTERRELL.COM
ENERGY MANAGEMENT	**EVERGY** 1300 SE HAMBLEN RD LEE'S SUMMIT, MO 64081 T: (816) 298-1196
WATER MANAGEMENT	**CITY OF LEE'S SUMMIT WATER UTILITIES** 1200 SE HAMBLEN RD LEE'S SUMMIT, MO 64081 T: (816) 969-1900
CIVIL ENGINEER	**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.** 1450 BEALE STREET, SUITE 305 ST. CHARLES, MO 63303 T: (314) 656-4566 CONTACT: DANIEL R. KOZIATEK DKOZIATEK@CECINC.COM
GEOTECH ENGINEER	**TERRACON** 1312 SW MARKET ST LEES SUMMIT, MO 64081 T: (816) 525-6826 CONTACT: ALEX GOHARIOON ALEX.GOHARIOON@INFO-TERRACON.COM
LANDSCAPE ARCHITECT	**KIMLEY-HORN & ASSOCIATES, INC.** 805 PENNSYLVANIA AVENUE #150 KANSAS CITY, MO 64105 T: (816) 652-0350 CONTACT: AMANDA MCABEE AMANDA.MCABEE@KIMLEY-HORN.COM
BUILDING DEPARTMENT	**CITY OF LEE'S SUMMIT DEVELOPMENT SERVICES** 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 T: (816) 969-1200 CONTACT: GRANT WHITE GRANT.WHITE@CITYOFLS.NET
HEALTH DEPARTMENT	**JACKSON COUNTY ENVIRONMENTAL HEALTH** 3651 NE RALPH POWELL RD LEE'S SUMMIT, MO 64064 T: (816) 404-6415 CONTACT: DEB SEES T: (916) 797-7162 DSEES@JACKSONGOV.ORG

DRAWING INDEX

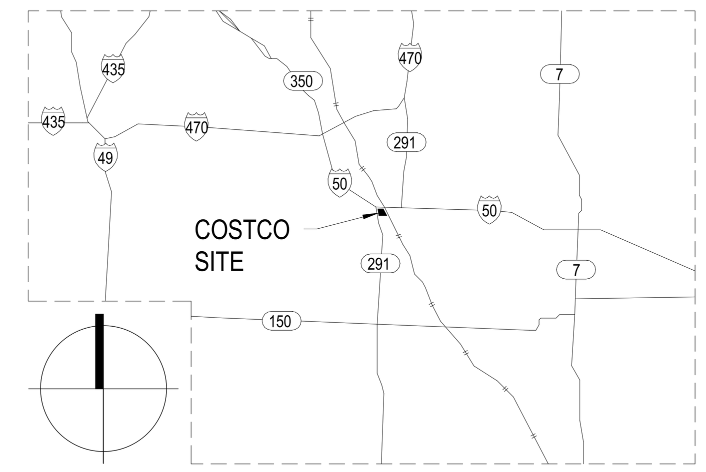
COVER SHEET	
TS101	TITLE SHEET
GENERAL	
G101	EGRESS PLAN AND CODE DATA
G201	ACCESSIBILTY FEATURES
G202	RESTROOM AND DOOR ACCESSIBILITY FEATURES
G203	SIGNAGE LOCATIONS
G301	WAREHOUSE CLEARANCE HEIGHTS, SECTIONS, AND DETAILS
CIVIL	
C000	COVER
C100	EXISTING CONDITIONS
C200	SITE PLAN
C201	CURB ISLAND DIMENSION PLAN
C202	FIRE APPARATUS TURNING
C300	GRADING PLAN
C301	ADA GRADING PLAN
C302	EROSION AND SEDIMENT CONTROL PLAN
C303	EROSION AND SEDIMENT CONTROL DETAILS
C304	EROSION AND SEDIMENT CONTROL DEVICES
C400	STORM SEWER PLAN
C401	EXISTING DRAINAGE AREA MAP
C402	PROPOSED DRAINAGE AREA MAP
C403	STORM SEWER PROFILES
C404	STORM SEWER PROFILES
C405	BASIN DRAINAGE AREA MAP
C406	STORMWATERMANAGEMENT BASIN
C407	STORMWATERMANAGEMENT BASIN
C500	UTILITY PLAN
C501	SANITARY PROFILES
C502	WATER PROFILES
C700	FUEL FACILITY SITE PLAN
C701	FUEL FACILITY GRADING PLAN
C702	FUEL FACILITY DETAILS SECTIONS & NOTES
C800	SITE DETAILS
C801	SITE DETAILS
C802	SITE DETAILS
C803	LOCAL UTILITY DETAILS
C804	SUB-SURFACE BUILDING PAD DETAILS
LANDSCAPE	
L1.0	OVERALL LANDSCAPE PLAN
L1.1	LANDSCAPE PLAN
L1.2	LANDSCAPE PLAN
L1.3	LANDSCAPE PLAN
L1.4	LANDSCAPE PLAN
L2.0	LANDSCAPE NOTES AND DETAILS
L2.1	LANDSCAPE NOTES AND DETAILS
IRRIGATION	
IR1.0	OVERALL IRRIGATION PLAN
IR1.1	IRRIGATION PLAN
IR1.2	IRRIGATION PLAN
IR1.3	IRRIGATION PLAN
IR1.4	IRRIGATION PLAN
IR2.0	IRRIGATION NOTES AND DETAILS
IR2.1	IRRIGATION DETAILS
ARCHITECTURAL SITE DEVELOPMENT	
SD101	SITE PLAN
SD201	SITE DETAILS
SD202	SITE DETAILS
SD203	CONCRETE WALKS AND PAVEMENT
SD301	GRADING AROUND BUILDING PAD
SD302	SUB-SURFACE BUILDING PAD IMPROVEMENTS
SD303	ADA PARKING GRADING PLAN, ENCLOSED CANOPY
ARCHITECTURAL	
A101	FLOOR PLAN
A201	ROOF PLAN
A202	ROOF DETAILS
A202.1	ROOF DETAILS
A301	EXTERIOR ELEVATIONS
A301.1	WALL PACK LOCATIONS
A301.2	SMOOTH FACED CMU LOCATIONS
A401	REFLECTED CEILING PLAN
A501	FRESHLINE PLANS
A501.1	FRESHLINE ELEVATIONS, DETAILS AND SECTIONS
A501.2	BAKERY PLANS, ELEVATIONS AND DETAILS
A501.3	MEAT PREP PLAN AND ELEVATIONS
A501.4	ROTISSERIE, DELI, AND ELEVATIONS
A501.5	POS COOLER FREEZER PLANS AND DETAILS
A501.6	PRODUCE, DAIRY AND MEAT COOLERS, AND DEMONSTRATION
A502	OFFICE CORE PLAN, ELEVATIONS AND DETAILS
A502.1	FRONT END, ENTRY AND HALLWAY ELEVATIONS AND DETAILS
A502.2	ELECTRICAL, EDP, VAULT AND ANTE ROOM PLANS AND DETAILS
A502.3	EMPLOYEE LOCKER ROOM MEZZANINE PLANS, SECTIONS AND DETAILS
A502.4	OFFICE ENLARGED PLAN, ELEVATIONS AND DETAIL
A503	PHARMACY PLANS, ELEVATIONS AND DETAILS
A503.1	PHARMACY ELEVATIONS
A504	TIRE CENTER PLANS, SECTIONS, ELEVATIONS, AND DETAILS
A504.1	TIRE CENTER ENTRANCE ELEVATIONS AND DETAILS
A505	FOOD SERVICE PLANS AND DETAILS
A505.1	FOOD SERVICE EQUIPMENT PLANS AND ELEVATIONS
A505.2	FOOD SERVICE WALL SECTIONS
A506	OPTICAL OFFICE PLANS, ELEVATIONS AND DETAILS
A506.1	OPTICAL SALES PLAN, ELEVATIONS AND DETAILS
A507	RECEIVING CORE PLANS, ELEVATIONS, SECTIONS, AND DETAILS
A508	RETURNS AND MEMBERSHIP COUNTERS PLAN AND ELEVATIONS
A509	HEARING CENTER PLAN, ELEVATIONS, AND DETAILS
A512	MECHANICAL AND FIRE DEPT ROOM PLAN, ELEVATIONS, AND DETAILS
A512.1	MECHANICAL,FIRE DEPT AND MSB ROOM SECTION AND DETAILS
A601	ROOM FINISH SCHEDULE AND TYPICAL INTERIOR DETAILS
A601.1	BASE, CURB, AND SLAB DETAILS
A601.2	LADDER AND FAN DETAILS AND SECTIONS
A602	DOOR AND WINDOW SCHEDULE
A602.1	DOOR AND WINDOW DETAILS
A602.2	DOOR DETAILS
A602.3	ENCLOSED CANOPY DOOR DETAILS
A701	WALL SECTIONS AND DETAILS
A702	TIRE CENTER SECTIONS
A703	LOADING DOCK PLAN, SECTION, AND DETAILS
A703.1	LOADING DOCK ELEVATIONS, SECTION, AND DETAILS
A705	CANOPY ENLARGED PLAN AND DETAILS
A705.1	CANOPY ENTRY SECTIONS AND PARTIAL ELEVATION
A705.2	CANOPY ENTRY SECTIONS ALONG GRID-AA
A705.4	CANOPY END WALL SECTIONS
A705.5	CANOPY INTERIOR ELEVATIONS
STRUCTURAL	
S0.1	GENERAL NOTES
S0.1A	SPECIAL INSPECTIONS
S0.1B	SPECIAL INSPECTIONS
S0.2	SLAB DETAILS
S0.3	DOOR ELEVATIONS & SECTIONS
S0.4	LIGHT GAGE FRAMING SECTIONS
S0.5	LIGHT GAGE FRAMING SECTIONS
S1.0	FOUNDATION PLAN
S1.1	SLAB JOINT PLACEMENT PLAN
S1.2	ROOF FRAMING PLAN
S1.3	ENLARGED CANOPY FOUNDATION PLAN
S1.4	CANOPY SECTIONS
S2.1	OFFICE, TUBE PLATFORM, AND DEMONSTRATION FRAMING PLANS
S2.2	PLATFORM PLANS
S2.3	PLATFORM SECTIONS
S2.4	T.C. RESTROOM CEILING FRAMING PLAN AND SECTIONS
S2.5	FOOD SERVICE FRAMING & MEAT PREP WALL PLANS, ELEVATIONS AND SECTIONS
S2.6	RECIEVING RESTROOM AND MECHANICAL ROOM FRAMING PLAN AND DETAILS
S3.1	BUILDING ELEVATIONS
S3.2	PARTIAL WALL ELEVATIONS AND DETAILS
S3.3	PARTIAL WALL ELEVATIONS AND DETAILS
S4.0	PLINTH SECTIONS, PLINTH SCHEDULE AND FOOTING SCHEDULE
S4.1	FOUNDATION SECTIONS
S4.2	FOUNDATION SECTIONS
S5.1	ROOF SECTIONS
S5.2	ROOF SECTIONS
MECHANICAL	
M-0.1	MECHANICAL HVAC SCHEDULES, HVAC LEGEND, GENERAL NOTES, AND INDEX
M-0.2	MECHANICAL HVAC SCHEDULES AND DETAILS
M-0.3	MECHANICAL HVAC DETAILS
M-0.4	MECHANICAL HVAC DETAILS
M-1.1	MAIN MECHANICAL PLAN
M-2.1	ENLARGED HVAC PLANS - FOOD SERVICE & OFFICE, PUBLIC RESTROOM, OPTICAL, AND PHARMACY
MR-1.1	MECHANICAL CONTROLS PLAN
MR-1.2	HVAC CONTROLS SCHEDULE AND DETAILS
MR-2.1	ENLARGED R.C. HVAC PLANS, PARTIAL, WELLNESS, TIRE INSTALL, FRESH LINE
PLUMBING	
P-0.1	PLUMBING LEGEND, INDEX, AND GENERAL NOTES
P-0.2	PLUMBING SCHEDULES
P-1.1	UTILITY / UNDERGROUND PLUMBING PLAN
P-1.2	MAIN SALES PLUMBING PLAN
P-2.1	ENLARGED WASTE & VENT PLAN - PUBLIC RESTROOM, FOOD SERVICE, TIRE INSTALL, AND OFFICE AREA
P-2.2	ENLARGED PLUMBING PLAN - FOOD SERVICE & EQUIPMENT PLATFORM
P-2.3	ENLARGED AIR PIPING PLAN - FOOD SERVICE & EQUIPMENT PLATFORM
P-3.1	ENLARGED WASTE & VENT PLANS - FRESH LINE & EQUIPMENT PLATFORM
P-3.2	ENLARGED PLUMBING PLANS - FRESH LINE & EQUIPMENT PLATFORM
P-4.1	PLUMBING DETAILS
ELECTRICAL	
E-1	ONE-LINE DIAGRAM, LEGEND, LIGHTING FIXTURE SCHEDULE, SHEET LIST AND NOTES
E-2	POWER PLAN
E-3	LIGHTING PLAN
E-4	OFFICE, PHARMACY, HEARING, OPTICAL, PUBLIC RESTROOM - POWER AND LIGHTING PLANS, DETAIL & NOTES
E-5	FRESHLINE POWER & DEMO ROOM LIGHTING PLAN, EQUIPMENT LIST, DETAILS, AND NOTES
E-6	FOOD SERVICE - POWER PLAN, EQUIPMENT LIST, DETAIL AND NOTES
E-7	TIRE CENTER, MECHANICAL ROOM POWER & LIGHTING PLANS, DETAILS AND NOTES
E-8	ELECTRICAL DETAILS
E-9	PANEL SCHEDULES
E-10	PANEL SCHEDULES, CONTROL SCHEDULE
E-11	CANOPY HEAT TAPE POWER PLANT
SE-1	SITE LIGHTING PLAN
FIRE ALARM	
FA001	INFORMATION SHEET
FA101	DEVICE PLACEMENT PLAN
FA201	RISER DIAGRAM
FIRE PROTECTION	
FP1.0	FIRE SERVICE SITE PLAN AND NOTES
FP2.0	FIRE SPRINKLER PIPING PLAN
FP2.1	FIRE SPRINKLER OVERHEAD REMOTE AREAS
FP3.0	FIRE SPRINKLER PIPING PLAN - ANCILLARY AREAS
FP4.0	FIRE SPRINKLER DETAILS
FP4.1	FIRE SPRINKLER DETAILS
FP4.2	FIRE SPRINKLER DETAILS
FP5.0	FIRE PUMP DETAILS
REFRIGERATION	
R1.0	REFRIGERATION FIXTURE PLAN
R1.1	REFRIGERATION ROOFTOP PLAN
R2.0	REFRIGERATION SCHEDULE
R2.1	REFRIGERATION SUCTION & LIQUID LINES
R2.2	REFRIGERATION OVERALL PIPING PLAN
R3.0	REFRIGERATION CONTROLS PLAN
R4.0	REFRIGERATION PLUMBING PLAN
R4.1	EVAC DETAILS
R4.2	REFRIGERATION OVERALL PLUMBING PLAN
R4.3	REFRIGERATION ISOMETRIC OVERALL PLUMBING PLAN
R5.0	PREP AREA AHU PLAN AND DETAILS
R6.0	REFRIGERATION FOOD SERVICE PLAN
R7.2	MICRO THERMO DETAILS
R7.3	MICRO THERMO DETAILS
R7.4	LEAK DETECTION DETAILS
R7.5	POWERSCOUT DETAILS
R7.6	REFRIGERATION ALARM PLACARD DETAILS
R8.0	REFRIGERATION DETAILS
R8.1	CONDENSER DETAILS
R8.2	EVAPORATOR DETAILS
R8.3	REFRIGERATED CASE DETAILS
RE3.0	REFRIGERATION ELECTRICAL PLAN
RE3.2	REFRIGERATION LIGHTING PLAN
RE3.3	ELECTRICAL COORDINATION SHEET

LEGAL DESCRIPTION

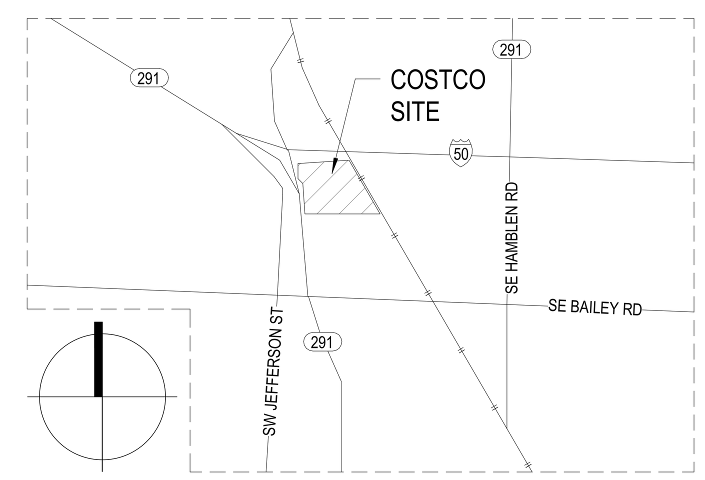
ALL THAT PART OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE NORTH UNE OF SAID QUARTER SECTION, AND 270 FEET EAST OF THE NORTHWEST CORNER THEREOF; THENCE SOUTH 00' 21* 55" WEST, A DISTANCE OF 323.29 FEET; THENCE NORTH 84* 48' 15" EAST, A DISTANCE OF 40.19 FEET TO THE TRUE POINT OF BEGINNING, WHICH IS AT A POINT OF INTERSECTION OF THE EAST RIGHT-OF-WAY OF U.S. HIGHWAY NO. 71 BYPASS AND THE SOUTHERLY RIGHT-OF-WAY OF U.S. HIGHWAY NO. 50, AS SAID HIGHWAYS ARE NOW ESTABLISHED; THENCE NORTH 84 48' 15" EAST, ALONG THE SOUTHERLY RIGHT—OF-WAY LINE OF U.S. HIGHWAY NO. 50, A DISTANCE OF 21.18 FEET, TO A POINT OPPOSITE AND 215 FEET FROM BASE LINE STATION 691+96.85 (AHEAD) OF SAID HIGHWAY; THENCE NORTH 85 19" 57" EAST, ALONG THE SOUTHERLY RIGHT-OF-WAY UINE OF U.S. HIGHWAY NO. 50, A DISTANCE OF 843.72 FEET TO A POINT ON THE SOUTHWESTERLY RIGHT-OF-WAY LINE OF THE MISSOURI PACIFIC RAILROAD, AS NOW ESTABLISHED, AND 50 FEET FROM THE CENTERLINE OF THE MAIN TRACKS THEREOF, SAID POINT ALSO BEING OPPOSITE AND 155 FEET FROM STATION 700+36.7 OF U.S. HIGHWAY NO. 50; THENCE SOUTH 31° 41' 20" EAST, ALONG SAID RAILROAD RIGHT-OF-WAY LINE, A DISTANCE OF 1144.59 FEET;THENCE SOUTH 89 59' 20" WEST, PARALLEL WITH THE SOUTH LINE OF SAID QUARTER SECTION, A DISTANCE OF 1429.04 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF U.S. HIGHWAY NO. 71 BYPASS, AND 80 FEET EAST OF THE CENTERLINE THEREOF: THENCE NORTH 00 21° 55" EAST, ALONG SAID RIGHT-OF-WAY, A DISTANCE OF 93.20 FEET, TO A POINT OPPOSITE AND 80 FEET FROM THE STATION 11+31.27 (AHEAD) OF THE CENTERLINE OF SAID HIGHWAY: THENCE IN A NORTHEASTERLY. NORTHERLY AND NORTHWESTERLY DIRECTION ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 1512.39 FEET, AND TANGENT TO THE LAST DESCRIBED COURSE, AND ALONG THE EASTERLY RIGHT-OF-WAY LINE, OF SAID HIGHWAY, AN ARC DISTANCE OF 348.59 FEET; THENCE NORTH 00 21' 55" EAST, ALONG SAID EASTERLY RIGHT-OF—WAY LINE, A DISTANCE OF 464.70 FEET TO THE TRUE POINT OF BEGINNING. THE BEARINGS IN THE DESCRIPTION REFER TO THE NORTH LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, AS HAVING A BEARING OF DUE EAST; EXCEPT ALL THAT PART IN STREETS, ROADS AND HIGHWAY RIGHT OF WAY AND EXCEPT THOSE PORTIONS CONVEYED TO THE STATE OF MISSOURI, ACTING BY THROUGH THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION IN A GENERAL WARRANTY DEED RECORDED AUGUST 25, 2016 AS DOCUMENT NO. 2016E0078

REGIONAL MAP



VICINITY MAP



PROJECT DESCRIPTION

THIS PROJECT IS A 165,797 SQUARE FEET, ONE STORY MERCANTILE OCCUPANCY BUILDING WITH FULLY AUTOMATIC FIRE-PROTECTION SPRINKLER SYSTEM AND FIRE ALARM SYSTEM.

ALSO INCLUDED IN THE PROJECT IS A FREESTANDING FUEL FACILITY WITH CANOPY.

SCOPE OF WORK

BUILDING:
THE WORK INCLUDES, BUT IS NOT LIMITED TO, BUILDING SHELL, CANOPIES, INTERIOR TENANT IMPROVEMENTS, AND FINISHES, ITEMS FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR AND ITEMS FURNISHED AND INSTALLED BY THE OWNER WITH FINAL CONNECTIONS BY THE CONTRACTORS.

THE WORK ALSO INCLUDES, BUT NOT LIMITED TO, INTERIOR SIGNAGE, FIRE PROTECTION SPRINKLER SYSTEMS, LIFE SAFETY/FIRE ALARM SYSTEMS, HVAC SYSTEMS, ENERGY MANAGEMENT SYSTEMS, PLUMBING AND ELECTRICAL/LIGHTING SYSTEMS.

EXTERIOR BUILDING SIGNAGE IS A DEFERRED SUBMITTAL.

ON SITE:
THE WORK INCLUDES, BUT NOT LIMITED TO, DEMOLITION, ABATEMENT IF REQUIRED, EXCAVATION, IMPORT FILL, GRADING, STORM WATER DRAINAGE SYSTEM WITH DETENTION/RETENTION VAULTS/PONDS, WATER DISTRIBUTION SYSTEMS, SANITARY SEWER SYSTEMS, NATURAL GAS DISTRIBUTION SYSTEM, ELECTRICAL DISTRIBUTION SYSTEMS, SITE LIGHTING, CURBS, PAVEMENT, STRIPING/ARROWS, LANDSCAPING, IRRIGATION, FENCING AND RETAINING WALLS.

OFF SITE: BY DEVELOPER
THE WORK INCLUDES, BUT NOT LIMITED TO, DEMOLITION, TRAFFIC SIGNALIZATION, TRAFFIC CHANNELIZATION IMPROVEMENTS, CURB CUTS, CURBS, PAVEMENT, STRIPING, LANDSCAPING, IRRIGATION, FENCING, AND RETAINING WALLS.
THE WORK ALSO INCLUDES STREET IMPROVEMENTS SUCH AS LIGHTING, UTILITIES, ETC.

FUEL FACILITY:
THE INCLUDES, BUT NOT LIMITED TO, UNDERGROUND FUEL STORAGE TANKS, FUEL DISPENSING PUMPS, PIPING AND MONITORING SYSTEMS, CANOPY, CONTROLLER ENCLOSURE, SIGNAGE (BY MBS) AND ELECTRICAL / LIGHTING SYSTEMS.

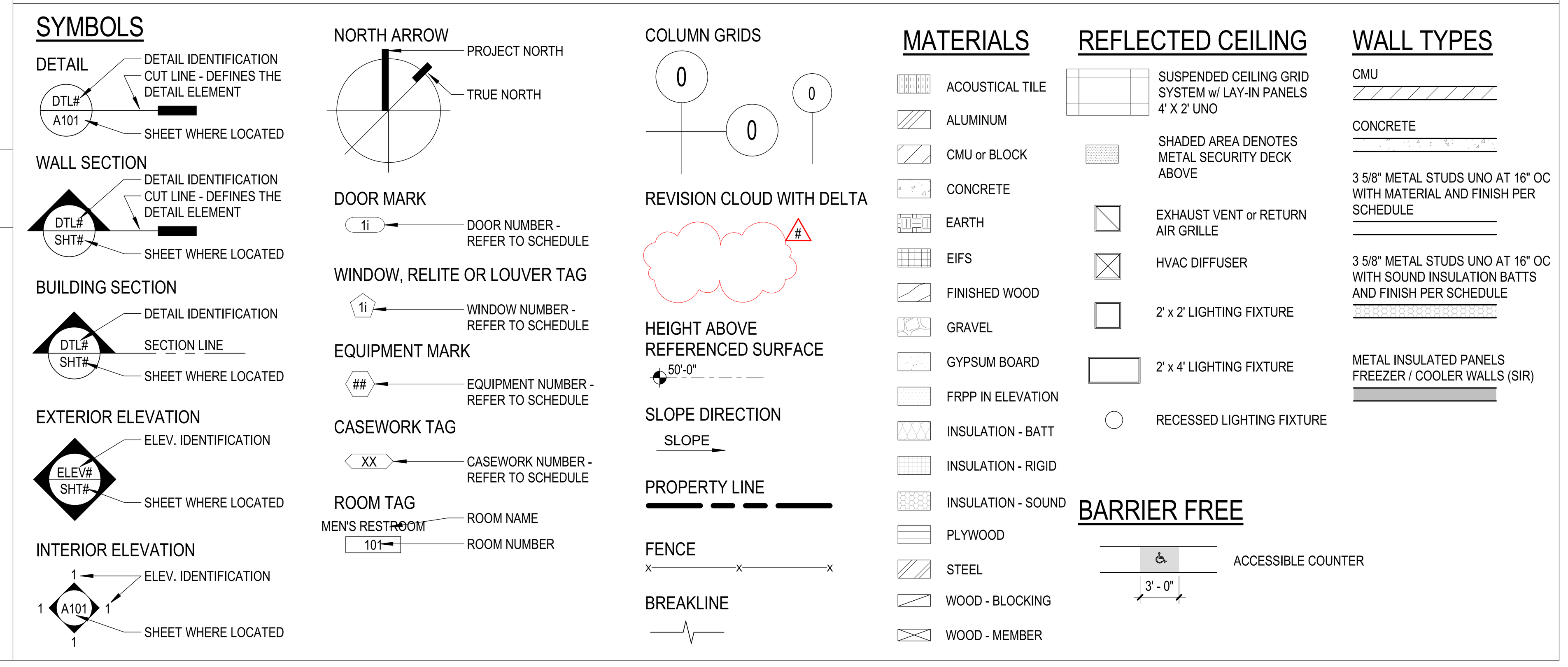
PROJECT SPECIFIC REQUIREMENTS:

ARCHITECTURAL ABBREVIATIONS

FOR ADDITIONAL ABBREVIATIONS SEE OTHER DESIGN DISCIPLINES AND A601

ACOUS	ACOUSTICAL
ADJ	ADJUSTABLE, ADJACENT
AFF	ABOVE FINISHED FLOOR (SLAB)
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
BD	BOARD
BFF	BELOW FINISHED FLOOR (SLAB)
BLDG	BUILDING
BLK	BLOCK
BLK'G	BLOCKING
BM	BEAM
BO, BOT	BOTTOM
BTWN	BETWEEN
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONSTUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CT	CERAMIC TILE
DIM	DIMENSION
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	EXISTING
EA	EACH
EDP	ELECTRONIC DATA PROCESSES
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
ELEC	ELECTRICAL
ELEV	ELEVATION
ENCL	ENCLOSURE
EQ	EQUAL
ESO	EMERGENCY SHUT OFF
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH
FL, FLR	FLOOR
FRPP	FIBER REINFORCED PLASTIC PANEL
FRT	FIRE RETARDANT TREATED
FTG	FOOTING
FTOF	FACE TO FACE OF FINISH
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFP	GYPSUM FIBER PANEL
GWB	GYPSUM WALLBOARD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
INSUL	INSULATION
INT	INTERIOR
L	LONG, LENGTH
LIQ	LIQUID
LP	LOW POINT
LT FIXT	LIGHTING FIXTURE
LTWT	LIGHT WEIGHT
MAS	MASONRY
MAX	MAXIMUM
MBS	METAL BUILDING SUPPLIER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MIP	METAL INSULATED PANEL
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MPU	MERCHANDISE PICK UP
MSB	MAIN SWITCH BOARD
MTL	METAL
MULL	MULLION
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
O TO O	OUT TO OUT
OC	ON CENTER
OD	OVERFLOW DRAIN
OH	OVERHEAD
OP'G	OPENING
OPP	OPPOSITE
PERP	PERPENDICULAR
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PMTL	PRE-FINISHED METAL PANEL
PR	PAIR
PT	PRESERVATIVE TREATED
PTMTL	PRE-FINISHED TEXTURED METAL PANEL
PVCP	PVC PANEL
R	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REFRIG	REFRIGERATION
REQ'D	REQUIRED
RL	RAIN LEADER
RO	ROUGH OPENING
RTV	RETURN TO VENDOR
S&BR	SEALANT AND BACKER ROD
SAF	SELF-ADHERING FLASHING
SC	SOLID CORE
SCHED	SCHEDULE
SIC	SUPPLIED AND INSTALLED BY CONTRACTOR
SIM	SIMILAR
SIO	SUPPLIED AND INSTALLED BY OWNER
SIR	SUPPLIED AND INSTALLED BY REFRIGERATION CONTRACTOR
SIV	SUPPLIED AND INSTALLED BY VENDOR
SOIC	SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR
SOIRC	SUPPLIED BY OWNER AND INSTALLED BY REFRIGERATION CONTRACTOR
SOIRC	SUPPLIED BY OWNER AND INSTALLED BY REFRIGERATION CONTRACTOR
SOIV	SUPPLIED BY OWNER AND INSTALLED BY VENDOR
SOK	SPECIAL ORDER KIOSK
SQ	SQUARE
SRIC	SUPPLIED BY REFRIGERATION CONTRACTOR AND INSTALLED BY CONTRACTOR
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURE, STRUCTURAL
SVIC	SUPPLIED BY VENDOR INSTALLED BY CONTRACTOR
T	TREAD
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WHS	WELDED HEAD STUD
WRB	WATER RESISTIVE BARRIER
WRHS	WAREHOUSE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

ARCHITECTURAL SYMBOLS



PROJECT GENERAL NOTES

1. THESE GENERAL NOTES APPLY TO THE ENTIRE PROJECT AND APPLY TO ALL TRADES.
2. DRAWINGS HAVE BEEN PREPARED ON AN ORIGINAL SHEET SIZE OF 30X42-INCHES.
3. CONSULT DRAWINGS OTHER THAN ARCHITECTURAL DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
4. CONDITIONS AND DIMENSIONS SHOWN ON SITE PLANS ARE FROM A SURVEY PREPARED BY OTHERS OR FROM AVAILABLE RECORDS. THE ARCHITECT BEARS NO RESPONSIBILITY FOR THE ACCURACY OF INFORMATION SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING INFORMATION SHOWN PRIOR TO STARTING THE WORK.
   A. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES.
   B. VERIFY ALL INVERT ELEVATIONS AT POINTS OF CONNECTIONS OF NEW WORK PRIOR TO STARTING ANY WORK.
   C. EXISTING UTILITIES SHOWN HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE ONLY.
   D. IF NECESSARY TO COMPLETE THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY ADDITIONAL UTILITY LOCATIONS AND SIZES NOT SHOWN.
5. THE CONTRACTOR SHALL TAKE ALL POSSIBLE CARE TO AVOID DAMAGE OR DISTURBANCE TO EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR REPAIRING ANY CONTRACTOR-CAUSED DAMAGE TO THE UTILITIES. SUCH REPAIRS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND IN SUCH A MANNER AS TO BE LEAST-DISRUPTIVE AS POSSIBLE TO THE OWNER'S OPERATIONS.
6. DO NOT SCALE THE DRAWINGS TO OBTAIN DIMENSIONS. WRITTEN DIMENSIONS GOVERN. USE ACTUAL FIELD MEASUREMENTS.
7. DIMENSIONS ARE TO/FROM THE:
   A. CENTERLINE OF INTERIOR COLUMNS.
   B. GRID LINES ADJACENT TO THE EXTERIOR WALL (INTERIOR FACE OF STEM WALL / NOMINAL FACE OF MASONRY).
   C. EDGE OR CENTERLINE OF OPENINGS AS INDICATED.
   D. FACE OF STUDS.
   E. FACE OF CONCRETE OR MASONRY (NOMINAL)
   F. ALL HEIGHTS ARE DIMENSIONED FROM THE TOP OF THE SLAB (ALSO NOTED AS FINISHED FLOOR OR INDICATED BY THE "DATUM" SYMBOL) UNLESS NOTED OTHERWISE.
   G. ALL DIMENSIONS NOTED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THE THICKNESS OF ALL FINISHES INCLUDING CARPETING, TILE, WAINSCOT AND TRIM.
   H. ALL DOORS NOT LOCATED BY DIMENSIONS ON PLANS OR DETAILS SHALL BE LOCATED SO THE EDGE OF THE DOOR OPENING IS 6-INCHES AWAY FROM THE FACE OF ANY ADJOINING INTERSECTING WALL.
   I. ALL METAL STUDS ARE 3-5/8" UNLESS NOTED OTHERWISE.
8. VERIFY ALL DIMENSIONS OF EXISTING CONDITIONS. NEITHER THE ARCHITECT NOR HIS CONSULTANTS ARE RESPONSIBLE FOR THE ACCURACY OF THESE DIMENSIONS. IF EXISTING CONDITIONS OR DIMENSIONS ARE NOT AS SHOWN, IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
9. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR, SUBCONTRACTORS, OWNER OR OTHERS.
10. THE CONTRACTOR SHALL CONSULT DRAWINGS OF ALL TRADES FOR OPENINGS THROUGH SLABS, WALLS, CEILINGS AND ROOFS FOR DUCTS, PIPES, CONDUIT, CABINETS, EQUIPMENT, ETC. AND SHALL VERIFY THE SIZES AND LOCATIONS WITH SUBCONTRACTORS.
11. PLACE NO OBSTRUCTIONS, INCLUDING MAINS, PIPING, CONDUIT, ETC. OF ANY KIND SO AS TO IMPAIR GIVEN CEILING HEIGHTS AND CLEARANCES. RUN PIPING, CONDUITS, ETC. IN JOIST DEPTH. DO NOT RUN BELOW SKYLIGHTS.
12. ALL CONDUITS, PIPING, ETC. SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS; DO NOT RUN AT AN ANGLE TO THE WALLS.
13. IN ROOMS OR SPACES SCHEDULED TO RECEIVE WALL AND/OR CEILING FINISHES, DO NOT RUN EXPOSED CONDUITS, PIPING, ETC. ON WALLS OR CEILINGS.
14. ALL WORK IS TO BE PLUMB, LEVEL, TRUE TO LINE, AND STRAIGHT.
15. ALL JOINTS ARE TO BE TIGHT, STRAIGHT, EVEN, AND SMOOTH.
16. ALL MATERIAL IS NEW UNLESS NOTED OTHERWISE.
17. PROVIDE ALL FASTENERS AND CONNECTIONS (WHETHER INDICATED OR NOT) NECESSARY TO ASSEMBLE THE WORK.
18. PROVIDE SOLID BLOCKING/BACKING FOR ALL WALL MOUNTED FIXTURES AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO, SINKS, WALL BRACKETS AND WALL-HUNG ITEMS.
19. PREPARE SURFACE AND REMOVE SURFACE FINISHES TO PROVIDE FOR PROPER INSTALLATION ON NEW WORK AND FINISHES. COMPLY WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
20. REPAIR, PATCH, OR REPLACE PORTIONS OF WORK THAT ARE DAMAGED, LIFTED, DISCOLORED, OR SHOWING OTHER IMPERFECTIONS.
21. PENETRATIONS OF RATED ASSEMBLIES SHALL BE SEALED WITH AN APPROVED MATERIAL AS APPROVED BY THE JURISDICTION.
22. CONSTRUCTION ACTIVITIES SHALL NOT AFFECT THE OWNER'S OPERATIONS. LOUD ACTIVITIES (JACK-HAMMERING, SAW-CUTTING, ETC.) AND ANY WORK REQUIRING INTERRUPTIONS OF UTILITIES (WATER, ELECTRICITY, GAS, FIRE SPRINKLERS/ALARM, SEWER, ETC.) SHALL BE PERFORMED DURING NON-BUSINESS HOURS AS APPROVED BY THE OWNER. ENSURE UNINTERRUPTED SECURITY AND PHONE SYSTEMS OPERATION.
23. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY AND SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNS, REFLECTORS, LIGHTS, ETC. TO PROPERLY IDENTIFY AREAS CLOSED TO THE PUBLIC AND FOR PROVIDING SAFETY ALERTS DURING CONSTRUCTION.
24. ALL WORK IS TO COMPLY WITH THE APPLICABLE CODES. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OR PERMIT WORK CONTRARY TO A GOVERNING REGULATION.
25. PROVIDE SEALANT AND BACKER ROD ALL AROUND EXTERIOR WALL PENETRATIONS (CONDUITS, FIXTURES, ETC.) AND OPENINGS (DOOR FRAMES, WINDOWS, ETC.).
26. THE CONTRACTOR SHALL CONFIRM IF CONCRETE SLABS ARE POST-TENSIONED. IF ANY SLAB IS POST-TENSIONED, THE CONTRACTOR SHALL ACCURATELY LOCATE TENDONS, CONDUITS, PIPES, ETC. USING NON-DESTRUCTIVE TESTING METHODS SUCH AS IMAGING, INDUCED CURRENT METAL DETECTOR, ETC. AS RECOMMENDED BY THE POST-TENSIONING INSTITUTE. IF ANY PROPOSED PENETRATION IS IN CONFLICT WITH TENDONS, ETC., IMMEDIATELY NOTIFY THE ARCHITECT PRIOR TO PERFORMING ANY WORK.

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2
MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

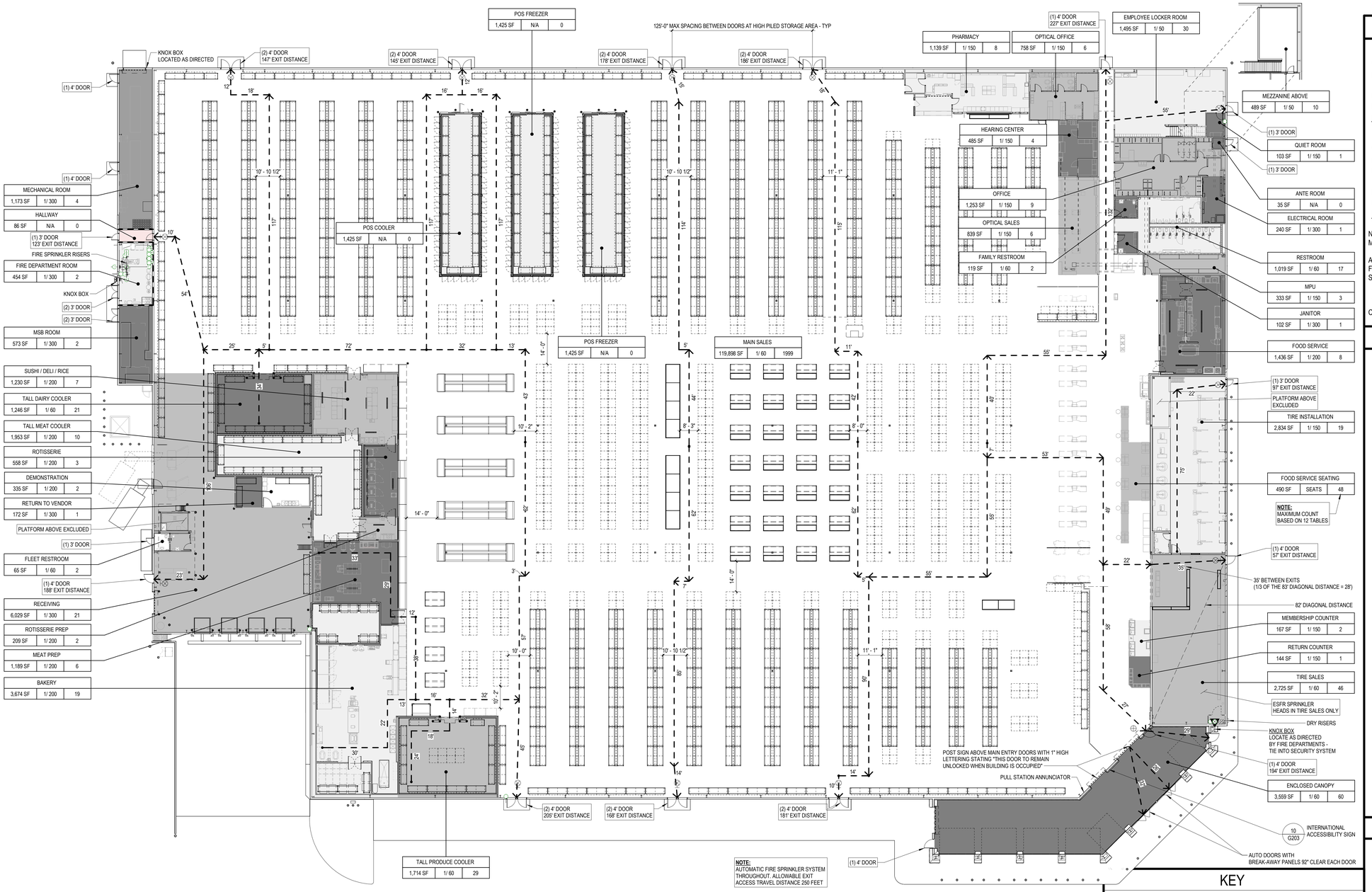
© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY:VA
11/17/2025

TITLE SHEET

TS101



1 EGRESS PLAN

SCALE: 1" = 20'-0"

BUILDING STATISTICS

NET FLOOR AREA (EXCLUDES EXTERIOR WALLS)- ENCLOSED CANOPY

WAREHOUSE	158,261 SF
ENCLOSED CANOPY	3,559 SF
FIRE DEPT ROOM	454 SF
MECHANICAL ROOM	1,173 SF
MSB	573 SF
HALLWAY	86 SF
TOTAL SQ FT =	164,107 SF

GROSS AREA (FOOTPRINT)- ENCLOSED CANOPY

WAREHOUSE	158,261 SF
ENVELOPE / EXTERIOR WALL	1,636 SF
ENCLOSED CANOPY	3,560 SF
FIRE DEPT ROOM	464 SF
MECHANICAL ROOM	1,191 SF
MSB	590 SF
HALLWAY	96 SF
TOTAL SQ FT =	165,797 SF

NUMBER OF STORIES: 1
MAX BUILDING HEIGHT (ABOVE FLOOR): 32'-8" FEET

	YES	NO
AUTOMATIC FIRE SPRINKLER SYSTEM:	[X]	[ ]
FIRE ALARM SYSTEM:	[X]	[ ]
SMOKE / HEAT VENTS:	[X]	[ ]

[X] VENT AREA = VOLUME / 9000
[X] MANUAL RELEASE AT ROOF
[X] FUSIBLE LINK 360°
CURTAIN BOARDS: [ ] [X]

CODE ANALYSIS

APPLICABLE BUILDING CODE:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL RESIDENTIAL CODE
2018 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRICAL CODE
ICC/ANSI A117.1-2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

OCCUPANCY CLASSIFICATION:
NON-SEPARATED USES - GROUP 'M' (MERCANTILE)
NO OCCUPANCY SEPARATIONS REQUIRED

ALLOWABLE FLOOR AREA:
UNLIMITED AREA PER 507 - APPROVED
AUTOMATIC SPRINKLER SYSTEM THROUGHOUT
AND ENTIRELY SURROUNDED & ADJOINED BY
PUBLIC WAYS OR YARDS NOT LESS THAN 60 FEET

BUILDING HEIGHT AND NUMBER OF STORIES:
ALLOWABLE: 40 FEET - 1 STORY
ACTUAL: 32'-8" FEET - 1 STORY

TYPE OF CONSTRUCTION : TYPE V-B

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS: TYPE V-B
STRUCTURAL FRAME.....0
BEARING WALLS.....0
NONBEARING WALLS AND PARTITIONS.....0
FLOOR CONSTRUCTION.....0
ROOF CONSTRUCTION.....0

INTERIOR WALL AND CEILING FINISH REQUIREMENTS:
GROUP M - SPRINKLERED
ROOMS AND ENCLOSED SPACE - CLASS - C
CORRIDORS - CLASS B

GOVERNING AUTHORITY REQUIREMENTS:
POST SIGN ABOVE MAIN ENTRY DOORS WITH 1" HIGH LETTERING STATING "THIS DOOR TO REMAIN UNLOCKED WHILE BUILDING IS OCCUPIED."

THERMAL R- VALUES:
CONSULT SPECIFICATIONS & MECHANICAL DOCUMENTS FOR REQUIRED THERMAL VALUES, AS A MINIMUM:
R25 - ROOF
R13 - WALLS

EGRESS SUMMARY

WAREHOUSE:
TOTAL OCCUPANTS - WAREHOUSE: 2,394
EGRESS WIDTH PER PERSON: 0.20
REQUIRED EGRESS WIDTH (IN INCHES): 479
ACTUAL EGRESS WIDTH (IN INCHES):
(17) 48" DOORS AT 45° NET = 765
(2) 36" DOORS AT 33° NET = 66
TOTAL = 831

TIRE INSTALLATION:
TOTAL OCCUPANTS - TIRE INSTALLATION: 19
EGRESS WIDTH PER PERSON: 0.20
REQUIRED EGRESS WIDTH (IN INCHES): 3.8
ACTUAL EGRESS WIDTH (IN INCHES):
(1) 36" DOORS AT 33° NET = 33
TOTAL = 33

FIRE DEPT ROOM:
TOTAL OCCUPANTS - FIRE DEPT ROOM: 2
EGRESS WIDTH PER PERSON: 0.20
REQUIRED EGRESS WIDTH (IN INCHES): 0.4
ACTUAL EGRESS WIDTH (IN INCHES):
(2) 36" DOORS AT 33° NET = 66
TOTAL = 66

MECHANICAL ROOM:
TOTAL OCCUPANTS - MECHANICAL ROOM: 4
EGRESS WIDTH PER PERSON: 0.20
REQUIRED EGRESS WIDTH (IN INCHES): 0.8
ACTUAL EGRESS WIDTH (IN INCHES):
(2) 48" DOORS AT 45° NET = 45
TOTAL = 45

MSB ROOM:
TOTAL OCCUPANTS - MSB ROOM: 2
EGRESS WIDTH PER PERSON: 0.20
REQUIRED EGRESS WIDTH (IN INCHES): 0.4
ACTUAL EGRESS WIDTH (IN INCHES):
(2) 36" DOORS AT 33° NET = 66
TOTAL = 66

FLEET RESTROOM:
TOTAL OCCUPANTS - FLEET RESTROOM: 2
EGRESS WIDTH PER PERSON: 0.20
REQUIRED EGRESS WIDTH (IN INCHES): 0.4
ACTUAL EGRESS WIDTH (IN INCHES):
(1) 36" DOORS AT 33° NET = 33
TOTAL = 33

TOTAL NUMBER OF OCCUPANTS = 2,423 + 60 (ENCLOSED CANOPY) = 2,483

KEY

DOOR SIZE — (2) 4' DOORS
LOCATION — MAIN SALES
AREA — 123,510 SF | 1 / 60 | 2,059 — OCCUPANT LOAD
OCCUPANT LOAD FACTOR (SQ FT PER OCCUPANT)
EXIT SIGN

FIRE EXTINGUISHER NOTES:

1. LOCATE FIRE EXTINGUISHERS (SOIC) AS DIRECTED BY FIRE MARSHAL
2. FIRE MARSHAL SHALL DETERMINE SIZE AND TYPE OF EXTINGUISHERS
3. IN GENERAL, PROVIDE:
   A. ONE 2A: 10 BC FIRE EXTINGUISHER PER 3,000 SQ FT AREA WITHIN 75-FOOT MAXIMUM TRAVEL DISTANCE
   B. CLASS K FIRE EXTINGUISHER WITHIN 30 FEET OF COMMERCIAL FOOD HEAT-PROCESSING EQUIPMENT
   C. COMPLY WITH NFPA 10
4. WALL OR POST-MOUNTED FIRE EXTINGUISHERS MUST BE MOUNTED WITHIN 27" FROM FINISH FLOOR TO AVOID PROTRUSION INTO ACCESSIBLE PATH

EMERGENCY RESPONDER RADIO COVERAGE:

GC:
FOLLOWING CONSTRUCTION CONFIRM WITH THE FIRE DEPARTMENT FOR COMMUNICATION THROUGHOUT THE INTERIOR OF THE WAREHOUSE.
IF COMMUNICATIONS FAIL, GC TO INSTALL RADIO COMMUNICATION UPGRADES IN CONJUNCTION WITH AND FOR COMPLIANCE WITH SECTION 918.1

PLUMBING FIXTURES

OCCUPANCY GROUP: M (MERCANTILE)
BUILDING NET AREA: 164,171
NUMBER OF OCCUPANTS = 2,483 OCCUPANTS;
1,242 MEN; 1,242 WOMEN

FIXTURE	REQUIRED		REQUIRED	
	MEN	WOMEN	MEN	WOMEN
* WATER CLOSET	1 PER 500	1 PER 500	* 3	3
LAVATORY	1 PER 750	1 PER 750	2	2

* NOTE: EQUAL TO / LESS THAN HALF OF WATER CLOSETS FOR MEN ARE URINALS

DEFERRED SUBMITTALS

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING.

THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL DOCUMENTS.

THE FOLLOWING ARE DEFERRED SUBMITTALS:
☐ METAL BUILDING SYSTEM
☐ KITCHEN TYPE I AND II HOODS
☐ HOOD FIRE SUPPRESSION SYSTEM
☐ FIRE SPRINKLER SYSTEM AND ALARM SYSTEM
☐ SMOKE ALARM SYSTEM
☐ FREEZER AND COOLERS
☐ EXTERIOR BUILDING SIGNAGE
☐ HIGH PILE STORAGE AND RACKING PERMIT

WALL AND CEILING ANALYSIS

	FINISHES	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
WALLS	VINYL BASE	<200	355
	CMU	NC	NC
	GYPSUM BOARD	15-20	0
	CERAMIC BOARD	NC	NC
	ACRYLIC PAINTS	10	0
	FRP PANELS	<200	<450
	FRT PLYWOOD	<25	25-130
CEILINGS	ACOUSTICAL TILES	20-25	5-10
	GYPSUM BOARD	15-20	0
	uPVC LINEAR STRIPS	<25	<450
	STEEL DECK	NC	NC
	STEEL JOIST	NC	NC
	EPOXY PAINTS	15	20
	ACRYLIC PAINTS	10	0
OTHER	THERMAL INSULATION	10	10
	SOUND INSULATION	10	10

NOTE: NC = NON-COMBUSTIBLE

CLASS - B		26-75	0-450
CLASS - C		76-200	0-450

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT INCLUDE SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:44

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

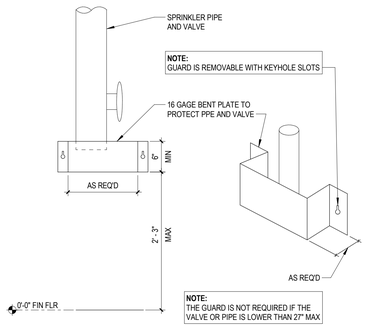
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

EGRESS PLAN AND CODE DATA

G101

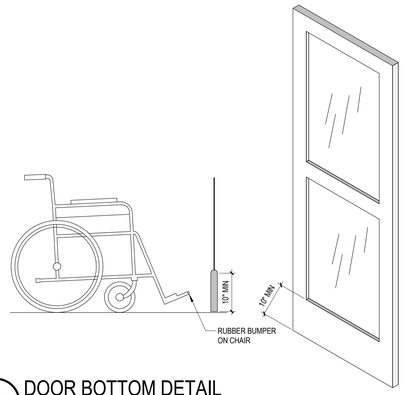
12/22/2025 9:40:11 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OFFICE OF BUILDING SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:44



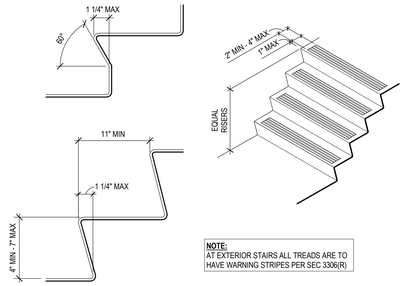
1 SPRINKLER VALVE GUARD IN ACCESSIBLE PATH

SCALE: 1" = 1'-0" 0212



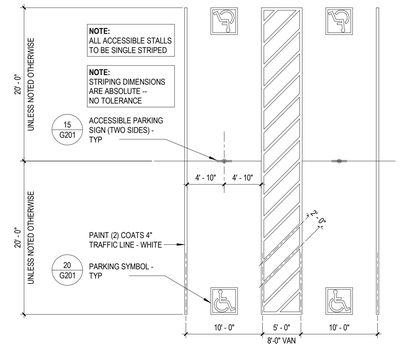
2 DOOR BOTTOM DETAIL

SCALE: 3/4" = 1'-0" 0808



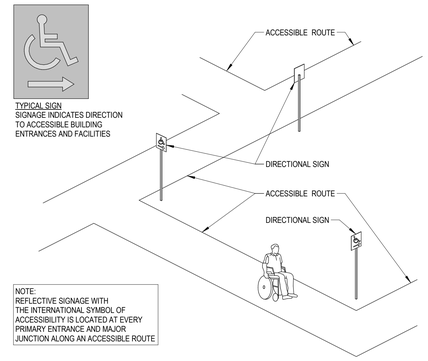
3 STAIR TREAD REQUIREMENTS

SCALE: 1/2" = 1'-0" 1023



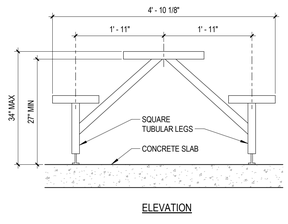
4 ACCESSIBLE PARKING STALLS - HEAD TO HEAD

SCALE: 1/8" = 1'-0" 0422



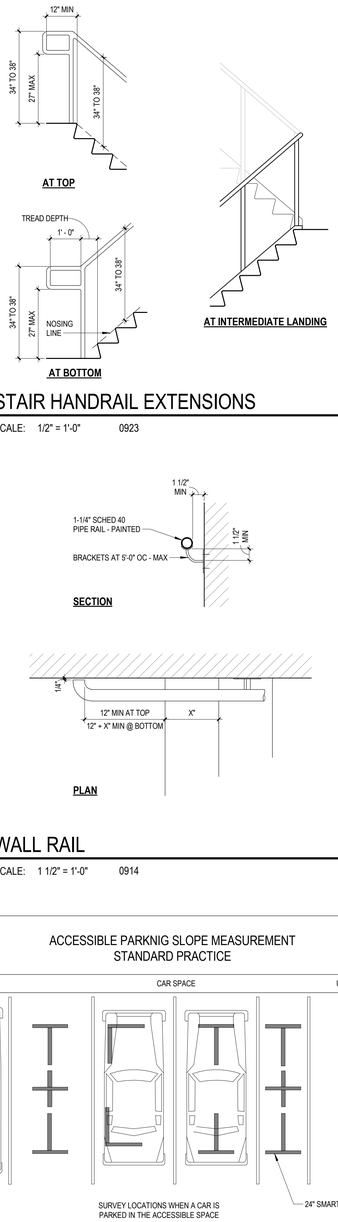
5 SIGNAGE AT ACCESSIBLE ROUTE

SCALE: 1 1/2" = 1'-0" 0620



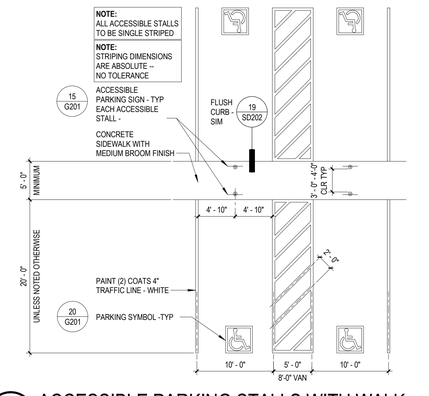
ELEVATION
(VIEW AT CUSTOMER AISLE)

ELEVATION



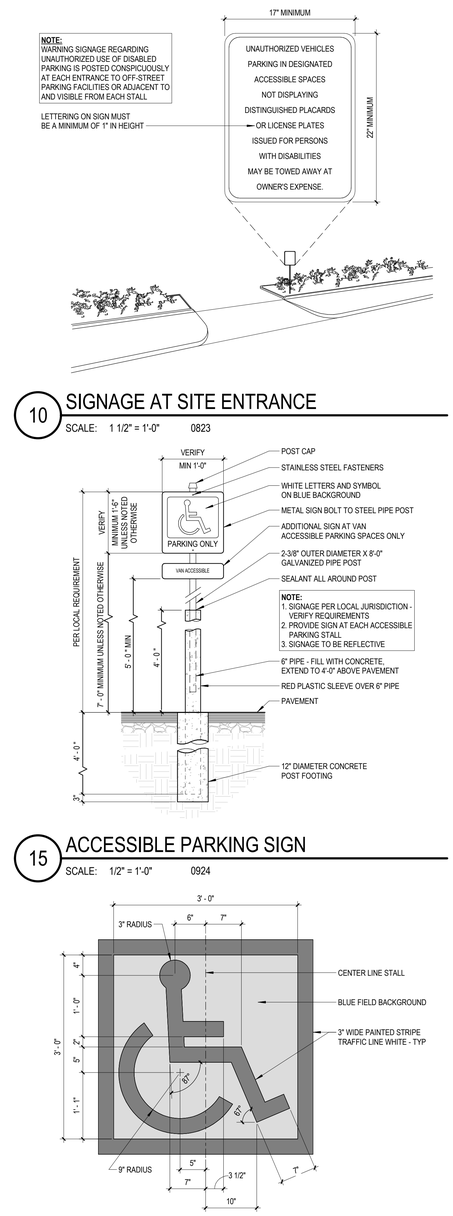
8 STAIR HANDRAIL EXTENSIONS

SCALE: 1/2" = 1'-0" 0923



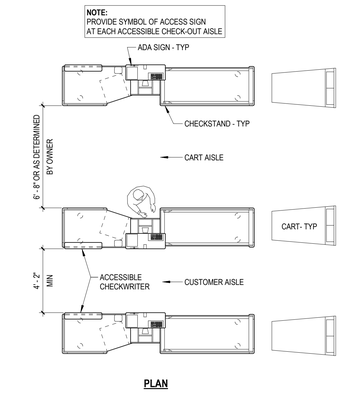
9 ACCESSIBLE PARKING STALLS WITH WALK

SCALE: 1/8" = 1'-0" 0422

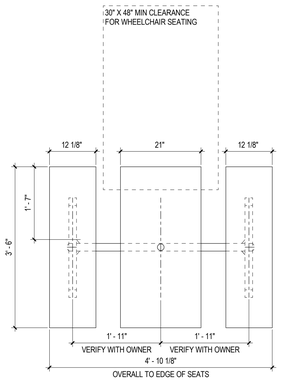


10 SIGNAGE AT SITE ENTRANCE

SCALE: 1 1/2" = 1'-0" 0823



PLAN



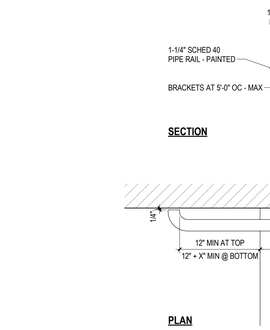
PLAN

11 ACCESSIBLE CHECKSTAND

SCALE: 1/4" = 1'-0" 0624

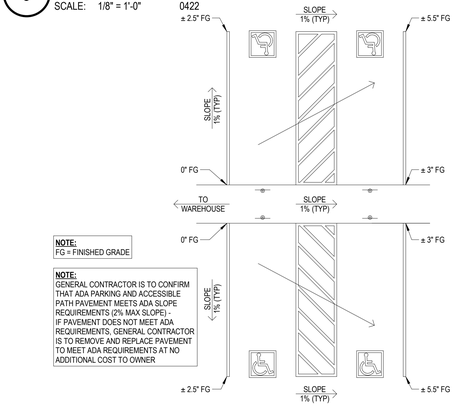
12 FOOD SERVICE TABLE

SCALE: 3/4" = 1'-0" 0624



13 WALL RAIL

SCALE: 1 1/2" = 1'-0" 0914



14 ACCESSIBLE PARKING GRADING

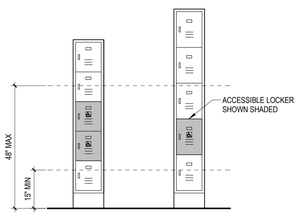
SCALE: 1/8" = 1'-0" 0422

15 ACCESSIBLE PARKING SIGN

SCALE: 1/2" = 1'-0" 0924

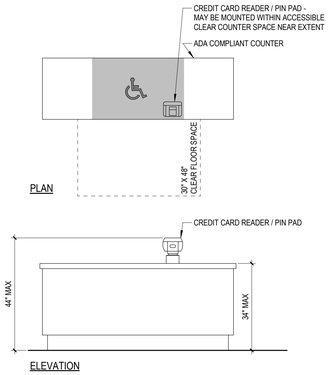
TOTAL NUMBER OF LOCKERS	MINIMUM ACCESSIBLE LOCKERS REQUIRED
1-20	1
21-40	2
41-60	3
61-80	4
81-100	5

NOTE: AT LEAST 5% OR MINIMUM ONE OF EACH TYPE OF LOCKERS SHALL BE ACCESSIBLE - ACCESSIBLE LOCKERS SHALL BE WITHIN REACH RANGE, WITH ADA COMPLIANT DOOR HANDLE, AND LABELED WITH INTERNATIONAL ACCESSIBILITY SYMBOL



16 LOCKERS

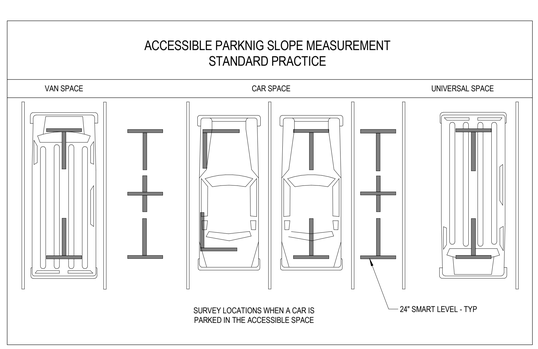
SCALE: 1/2" = 1'-0"



ELEVATION

17 SALES AND SERVICE COUNTER

SCALE: 1/2" = 1'-0" 0423

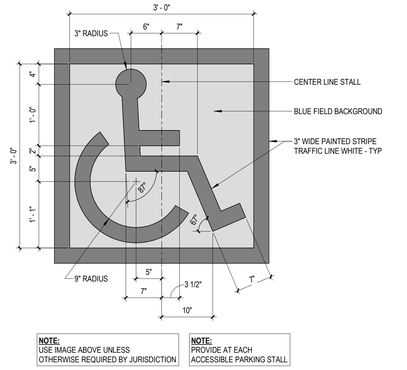


18 SLOPE MEASUREMENT

SCALE: 1/8" = 1'-0" 0924

ACCESSIBILITY GENERAL NOTES:

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE CORRECT INSTALLATION OF ALL ACCESSIBILITY FEATURES ON SHEETS G201 - G203, INCLUDING BUT NOT LIMITED TO THE ACCESSIBLE PARKING CROSS SLOPES, LONGITUDINAL SLOPES, SIGNAGE, STRIPING, MOUNTING HEIGHTS, AND ALL REQUIRED CLEARANCES.
2. THE ARCHITECT WILL CONDUCT AN ACCESSIBILITY SURVEY AT THE TIME OF SUBSTANTIAL COMPLETION TO VERIFY FULL CONFORMANCE.
3. ALL OPERABLE PARTS REQUIRED TO BE ACCESSIBLE SHALL BE OPERABLE 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 (22.2N) MAXIMUM.
4. ALL WALL OR POST MOUNTED ITEMS IN CIRCULATION PATHS MUST BE LOCATED WITHIN PROTRUSION LIMITS, SEE DIAGRAM ON G202.
5. ALL NON-CONFORMING ITEMS WILL BE DOCUMENTED AND SUBMITTED TO THE GC FOR CORRECTIVE ACTION.
6. FINAL PAYMENT AND RETAINAGE WILL BE HELD BY THE OWNER UNTIL ALL ITEMS HAVE BEEN CORRECTED AND THE SURVEY HAS BEEN CERTIFIED BY THE ARCHITECT.
7. DIMENSIONS THAT ARE NOT STATED AS "MAXIMUM" OR "MINIMUM" ARE ABSOLUTE. ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS. NO TOLERANCE OUTSIDE THE RANGE IS PERMITTED.



20 ACCESSIBLE PARKING SYMBOL

SCALE: 1" = 1'-0" 0514

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

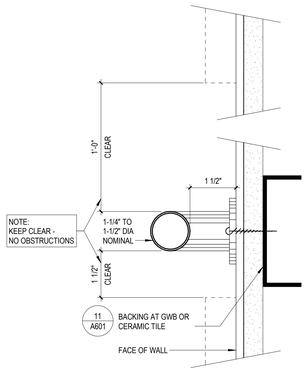
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

ACCESSIBILTY FEATURES

G201

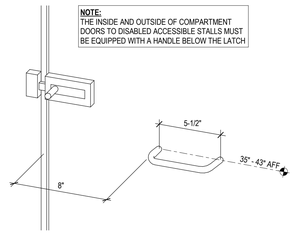
12/22/2025 9:40:13 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF ALL PRIOR SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:44



1 GRAB BAR

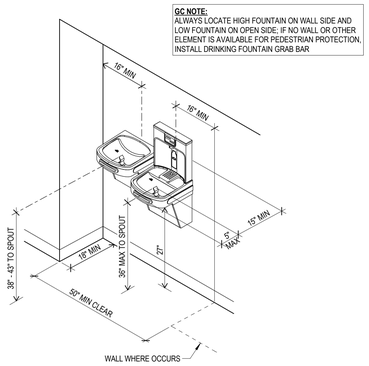
SCALE: 6" = 1'-0" 0519



U-SHAPED HANDLE

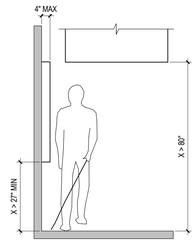
2 ACCESSIBLE STALL DOOR HANDLES

SCALE: 3" = 1'-0" 0119



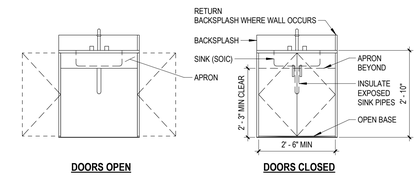
3 HI-LOW ACCESSIBLE FOUNTAINS

SCALE: 1/2" = 1'-0" 0723



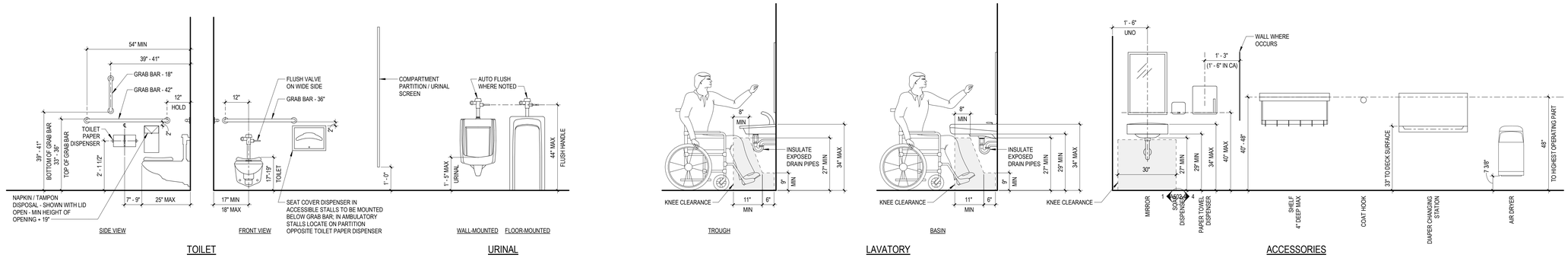
4 CIRCULATION PATH PROTRUSION LIMITS

SCALE: 1/2" = 1'-0" 1018



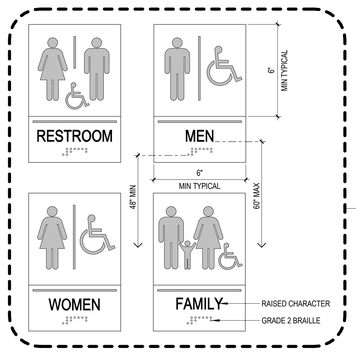
5 ACCESSIBLE SINK CABINET

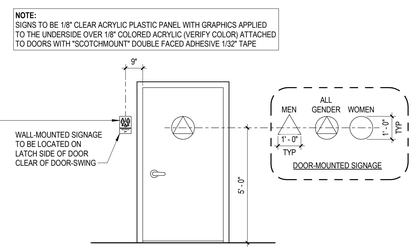
SCALE: 1/2" = 1'-0" 1123



6 TYPICAL ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCES

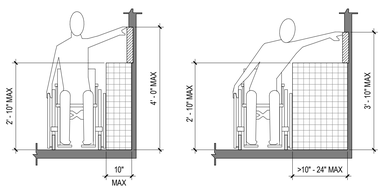
SCALE: 1/2" = 1'-0" 0624





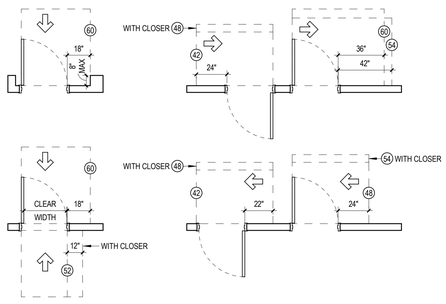
11 RESTROOM SIGNAGE

SCALE: 3" = 1'-0" 0624



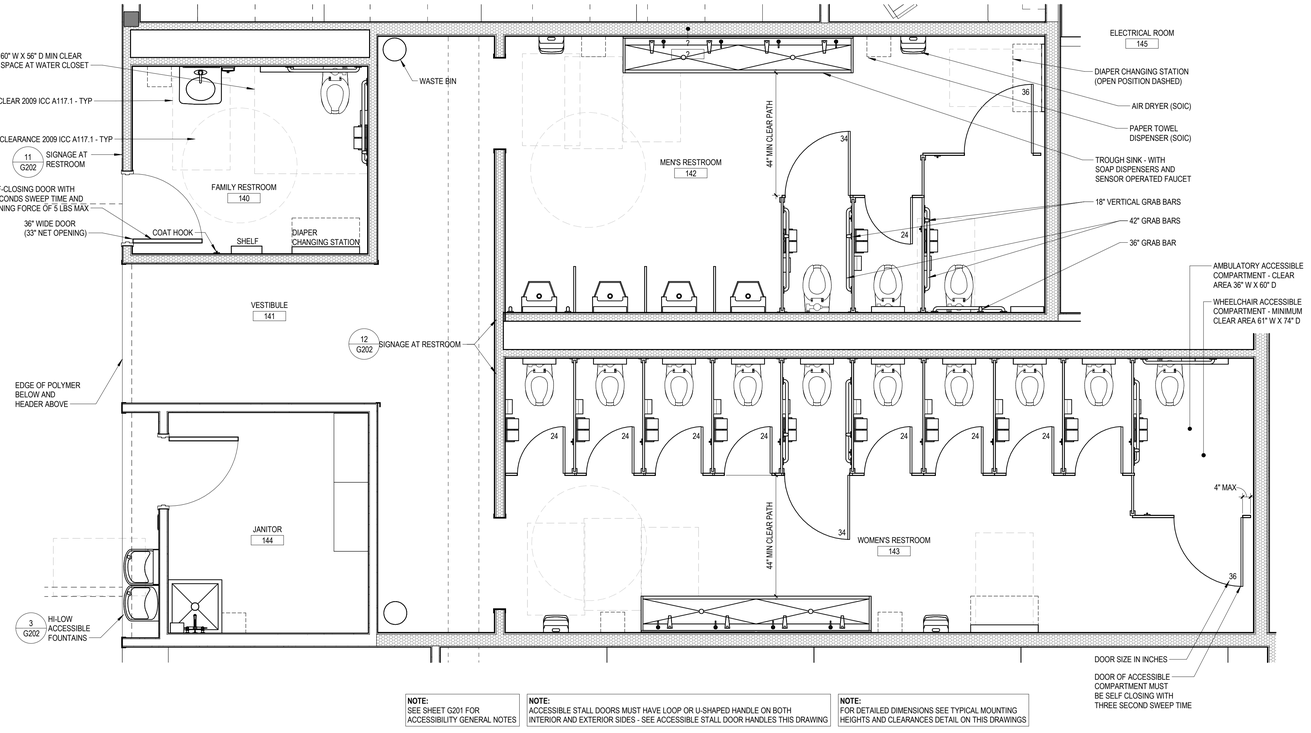
16 OBSTRUCTED HIGH SIDE REACH

SCALE: 1/2" = 1'-0" 0423



17 DOOR MANEUVERING CLEARANCES

SCALE: 1/4" = 1'-0" 0725



NOTE: SEE SHEET G201 FOR ACCESSIBILITY GENERAL NOTES

NOTE: ACCESSIBLE STALL DOORS MUST HAVE LOOP OR U-SHAPED HANDLE ON BOTH INTERIOR AND EXTERIOR SIDES - SEE ACCESSIBLE STALL DOOR HANDLES THIS DRAWING

NOTE: FOR DETAILED DIMENSIONS SEE TYPICAL MOUNTING HEIGHTS AND CLEARANCES DETAIL ON THIS DRAWINGS

18 TYPICAL RESTROOM

SCALE: 3/8" = 1'-0" 0624

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

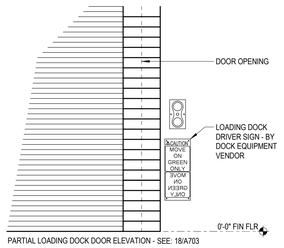
25-5563-01
PM: WILLIE MAK
DRAWN BY: VA
12/22/25

RESTROOM AND DOOR ACCESSIBILITY FEATURES

G202

12/22/2025 9:40:15 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

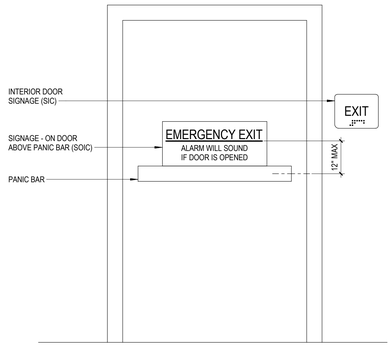
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
GOVERNING AGENCIES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:44



PARTIAL LOADING DOCK DOOR ELEVATION - SEE: 18/A703

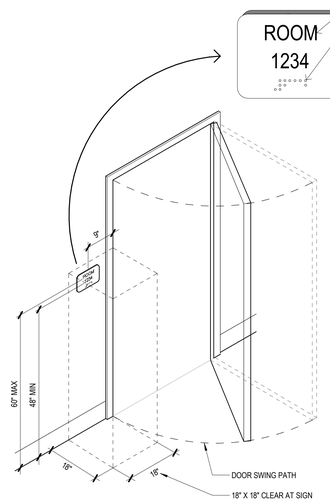
6 LOADING DOCK SIGNAGE TEST

SCALE: 1/2" = 1'-0" 0719



7 EGRESS SIGNAGE

SCALE: 3/4" = 1'-0" 0719



LETTERS AND NUMBERS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". CHARACTERS MUST CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT AND HAVE A NON-GLARE FINISH.

LITERARY BRAILLE STANDARD DIMENSIONS:

DOT DIAMETER	0.059 to 0.063 INCHES
INTER-DOT SPACING	0.090 to 0.100 INCHES
HORIZONTAL SEPARATION BETWEEN CELLS	0.241 to 0.300 INCHES
VERTICAL SEPARATION BETWEEN CELLS	0.395 to 0.400 INCHES

NOTE:
TACTILE SIGNAGE TO BE INSTALLED AT ALL EXIT DOORS, AND ALL ROOMS / SPACES WITH PERMANENT SIGNAGE.

NOTE:
PERMANENT SIGNAGE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. MOUNTING LOCATION MUST ALLOW A PERSON TO APPROACH WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING PATH OF THE DOOR.

8 SIGNAGE AT INTERIOR DOOR (SIGN)

SCALE: 1/2" = 1'-0" 1224

SIGNAGE LOCATIONS

LOCATION	ROOM NAME	NOTE
OPTICAL	RECEPTION	
	CONSULTATION ROOM #1	
	CONSULTATION ROOM #2	
	CONSULTATION ROOM #3	
PHARMACY	CONSULTATION ROOM	
	LAB	
	RESTROOM	1
HEARING	HEARING CENTER	
	FREE HEARING TEST	
QUIET ROOM	QUIET ROOM	
OFFICE CORE	FAMILY	1
	WOMEN	1
	MEN	1
	JANITOR	
	ELECTRICAL ROOM	
	EDP ROOM	
	MANAGER	
	EMPLOYEE LOCKER ROOM	
	MPU	
DEMONSTRATION	DEMONSTRATION	
FOOD SERVICE	FOOD SERVICE	
TIRE CENTER	TIRE INSTALLATION	
	RESTROOM	1
RECEIVING	RESTROOM	1
	FLEET RESTROOM	1
EGRESS DOORS	EXIT	

NOTE:
1. SEE G202 FOR DETAIL ON RESTROOM SIGNAGE.

TIRE INFLATION PARKING ONLY

FOR ASSISTANCE DURING BUSINESS HOURS, SEE TIRE CENTER EMPLOYEE AT MARKED BAY DOOR

INFLATION STATION SIGNAGE - AT PARKING

TIRE INFLATION ASSISTANCE AVAILABLE DURING TIRE CENTER BUSINESS HOURS

INFLATION STATION NITROGEN SHUT OFF

INFLATION STATION ELECTRICAL SHUT OFF

INFLATION STATION SIGNAGE - VERIFY LOCATION WITH OWNER

THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED

ON EGRESS SIDE ON OR ADJACENT TO AUTOMATIC ENTRY DOOR - TEXT IN LETTERS 1" (25MM) HIGH ON A CONTRASTING BACKGROUND

NO STORAGE

DURABLE METAL SIGN - INSTALL ON ALL SECURITY DECKS

WEST STAIR
NO ROOF ACCESS
6
1 THROUGH 12

SIGNAGE AT STAIRWAY IDENTIFICATION

INTERNATIONAL ACCESSIBLE SYMBOL

AT BUILDING ENTRANCE

10 MISCELLANEOUS SIGNAGE

SCALE: 1 1/2" = 1'-0" 0923

HEARING AID CENTER

HEARING AIDS AVAILABLE HERE
Free Hearing Test

OPTICAL

OPTICAL

EYE EXAMS

EYE EXAMS
OPTOMETRIST
Independent Doctor of Optometry

PRODUCE

Rx PHARMACY Rx

PRESCRIPTION DROP-OFF | PATIENT COUNSELING | PRESCRIPTION PICK-UP

PHARMACY

NOTE:
COORDINATE LOCATION OF SIGNAGE WITH WAREHOUSE MANAGER IN RELATION TO PLACEMENT OF CASEWORK

RETURNS

MEMBERSHIP

TIRE CENTER

DAIRY

FOOD COURT
SELF-SERVE KIOSK
Electronic payments only
ATM Cash

FOOD SERVICE MENU BOARD

DELI KIRKLAND Signature SUSHI

KIRKLAND Signature ROTISSERIE

U.S.D.A. PRIME BEEF

KIRKLAND Signature MEAT

U.S.D.A. CHOICE Grade

KIRKLAND Signature BAKERY

NOTE:
SEE SHEET G201 FOR SITE SIGNAGE
SEE SHEET G202 FOR RESTROOM SIGNAGE
SEE SHEET A301 FOR EXTERIOR BUILDING SIGNAGE

16 WAREHOUSE AREA SIGNAGE - SOIC

SCALE: 1/4" = 1'-0" 1224

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

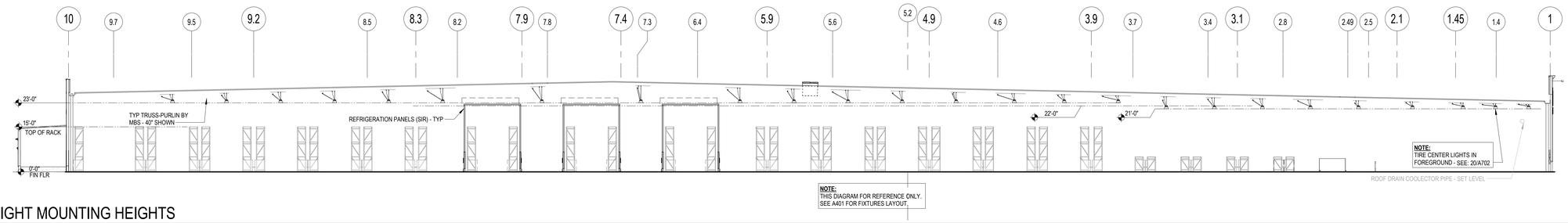
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

SIGNAGE LOCATIONS

G203

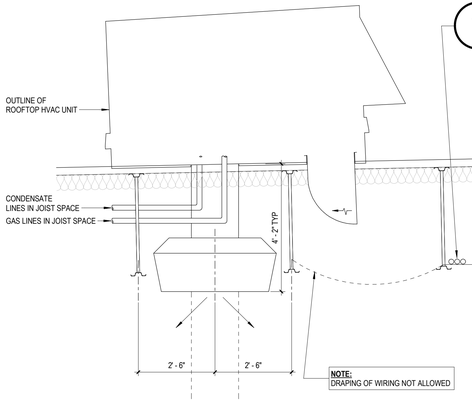
12/22/2025 9:40:16 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CITY OF LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:44



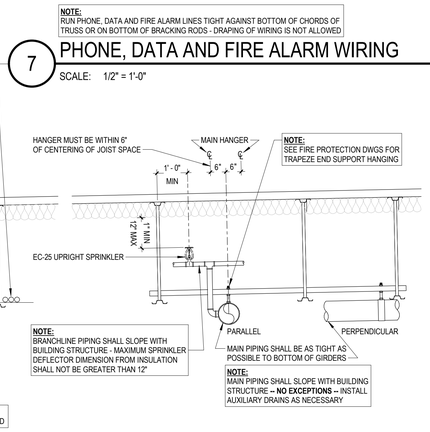
1 HIGH BAY LIGHT MOUNTING HEIGHTS

SCALE: 1/16" = 1'-0" 0125



11 HVAC UNIT

SCALE: 1/2" = 1'-0" 1113

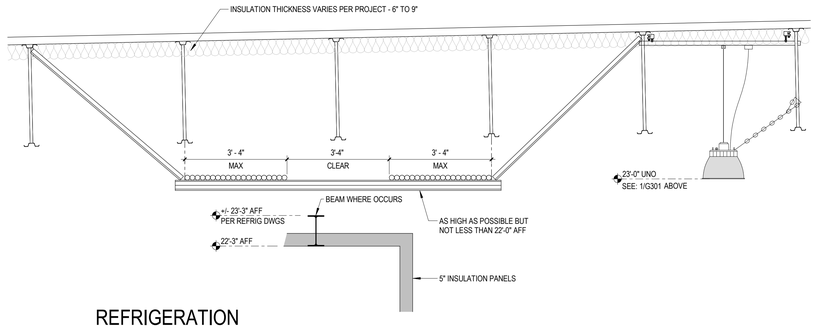


7 PHONE, DATA AND FIRE ALARM WIRING

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

12 SPRINKLER LINES

SCALE: 1/2" = 1'-0" 1013



13 REFRIGERATION PIPING AND TOP OF FREEZER / COOLER

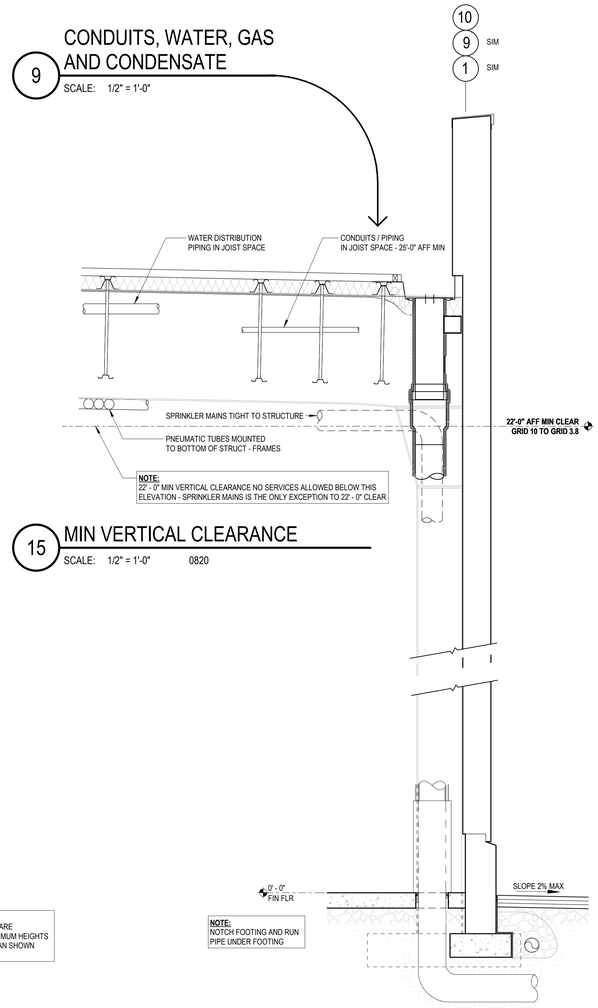
SCALE: 1/2" = 1'-0" 0416

19 SMOKE VENT RESTRICTIONS

SCALE: 1/2" = 1'-0" 1024

14 LIGHT FIXTURE

SCALE: 1/2" = 1'-0" 1024

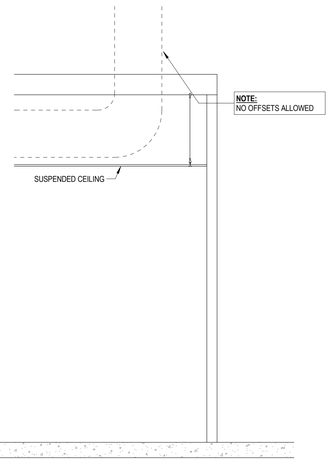


15 MIN VERTICAL CLEARANCE

SCALE: 1/2" = 1'-0" 0820

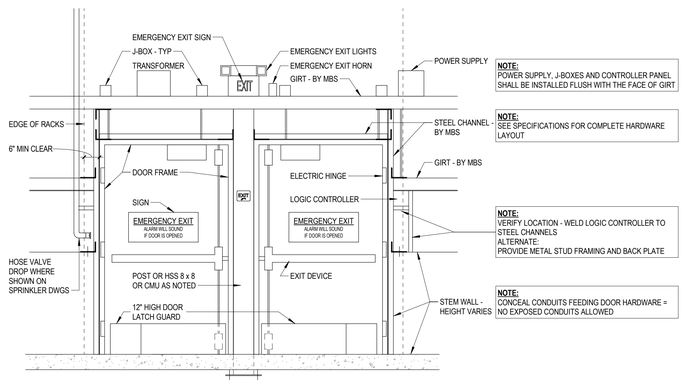
9 CONDUITS, WATER, GAS AND CONDENSATE

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



16 DUCT AT ANCILLARY BUSINESS

SCALE: 1/2" = 1'-0" 1011



17 EGRESS DOORS

SCALE: 1/2" = 1'-0" 0624

NOTE:
ALL CONDUITS, PIPING, ETC. SHALL RUN PARALLEL TO WALLS - DIAGONAL RUNS NOT PERMITTED

NOTE:
THIS DRAWING APPLIES TO ALL TRADES. ALL TRADES ARE RESPONSIBLE FOR REVIEWING AND MAINTAINING MINIMUM HEIGHTS AS SHOWN. WORK INSTALLED AT HEIGHTS LOWER THAN SHOWN SHALL BE REINSTALLED AT NOTED HEIGHTS.

20 PIPE AT FOOTING

SCALE: 1/2" = 1'-0" 0818

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

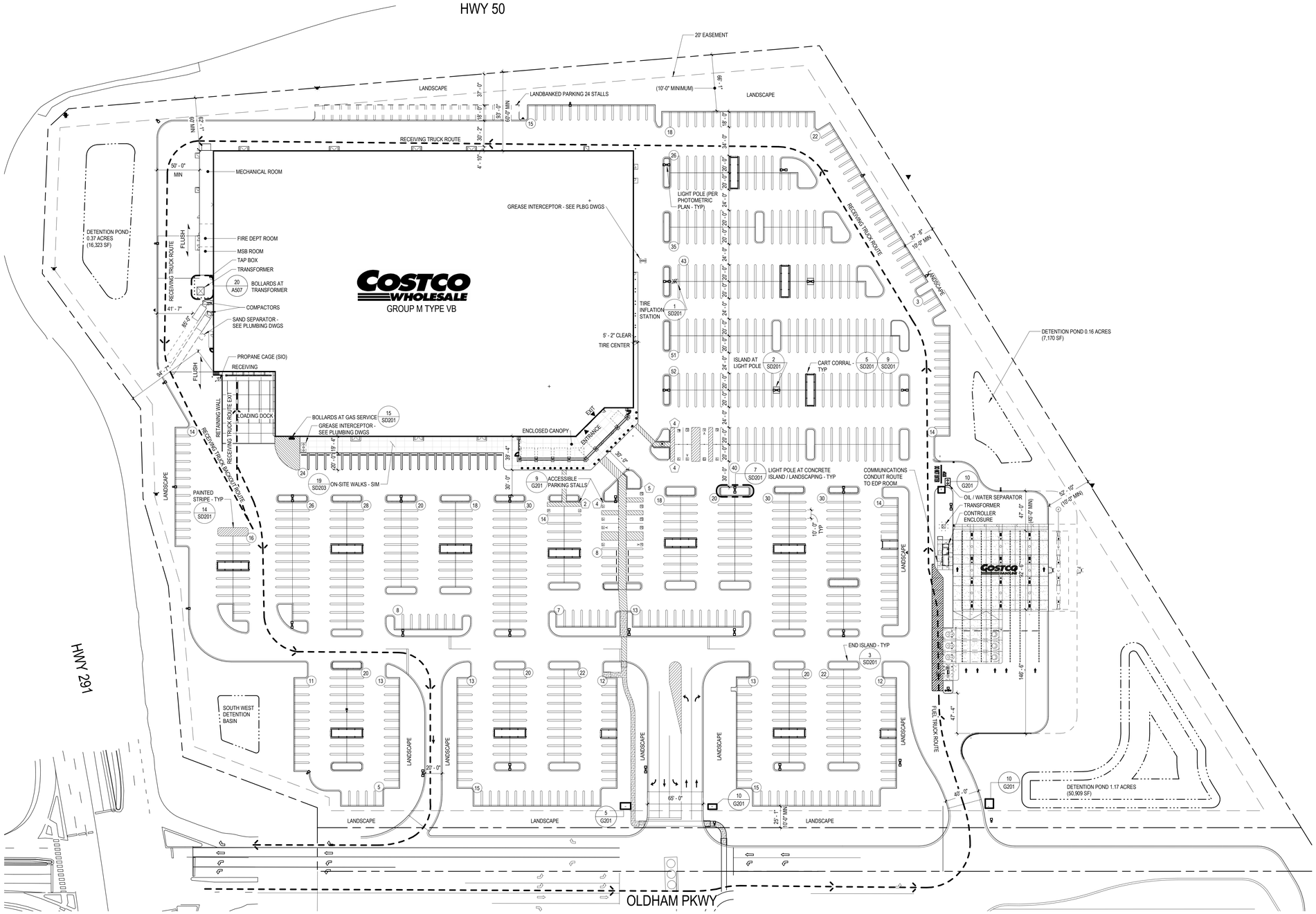
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

WAREHOUSE CLEARANCE HEIGHTS, SECTIONS, AND DETAILS

G301

12/22/2025 9:40:19 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF LEE'S SUMMIT PERMIT OFFICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:44



GC NOTE: GENERAL CONTRACTOR IS TO CONFIRM THAT ADA PARKING AND ACCESSIBLE PATH PAVEMENT MEETS ADA SLOPE REQUIREMENTS (2% MAX SLOPE) - IF PAVEMENT DOES NOT MEET ADA REQUIREMENTS, GENERAL CONTRACTOR IS TO REMOVE AND REPLACE PAVEMENT TO MEET ADA REQUIREMENTS AT NO ADDITIONAL COST TO OWNER

NOTE: SITE PLAN IS FOR REFERENCE ONLY. SEE CIVIL DRAWINGS FOR HORIZONTAL CONTROL

NOTE: SEE G203 FOR SIGNAGE LOCATIONS

NOTE: DO NOT PLACE CART CORRALS NEXT TO LANDSCAPE ISLANDS

16 SITE PLAN
SCALE: 1" = 50'-0"

PROJECT DATA

CLIENT: COSTCO WHOLESALE
999 LAKE DRIVE
ISSAQUAH, WA 98027

PROJECT ADDRESS: 10 SE OLDHAM PKWY
LEE'S SUMMIT, MO 64081

SITE DATA:

TOTAL SITE AREA: 23.86 ACRES (1,039,460 SF)

INCLUDES:
DEVELOPED SITE AREA: 21.19 ACRES (923,073 SF)
DETENTION SITE AREA: 1.28 ACRES (55,909 SF)
UNUSABLE SITE AREA (ROW AREA): 1.39 ACRES (60,478 SF)

JURISDICTION: CITY OF LEE'S SUMMIT

ZONING: PMIX (PLANNED MIXED-USE)

SETBACKS:

	REQUIRED		ACTUAL
FRONT:	15'	FRONT:	20'
SIDE:	10'	SIDE:	10'
REAR:	20'	REAR:	20'

BOUNDARIES INFORMATION:
THIS PLAN HAS BEEN PREPARED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC

BUILDING DATA:

TOTAL BUILDING FOOTPRINT ARE 165,797 SF

INCLUDES:
ENVELOPE / EXTERIOR WALL 1,636 SF
WAREHOUSE MAIN LEVEL: 158,261 SF
ENCLOSED CANOPY 3,560 SF
MECHANICAL ROOM 1,191 SF
FIRE DEPT ROOM 464 SF
MSB 590 SF

PARKING DATA

TOTAL PARKING: 890 STALLS
INCLUDES:
MAIN LEVEL PARKING PROVIDED:
0 10' WIDE STALLS 872 STALLS
0 ACCESSIBLE STALLS (2 PER 100) 18 STALLS
(1 IN 6 VAN, 3 TOTAL)

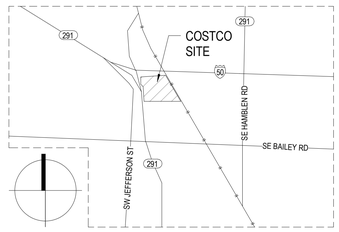
FUTURE PARKING 24 STALLS

NUMBER OF STALLS PER 1,000 SF OF BUILDING AREA: 5.5 STALLS

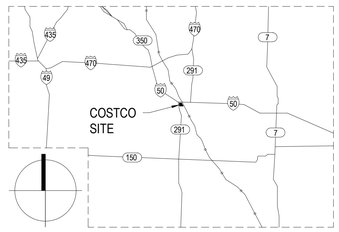
JURISDICTIONAL PARKING REQUIRED: 911 STALLS

NOTES:
EXISTING CONDITIONS TO BE FIELD VERIFIED

VICINITY MAP



REGIONAL MAP



COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

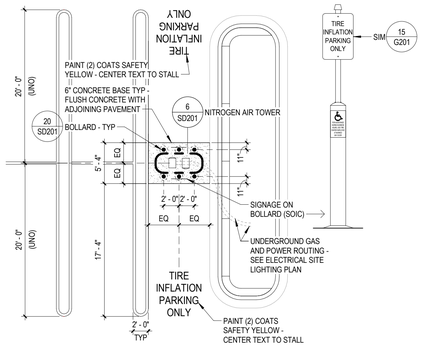
25-5563-01
PM: WILLIE MAK
DRAWN BY: VA
12/22/25

SITE PLAN

SD101

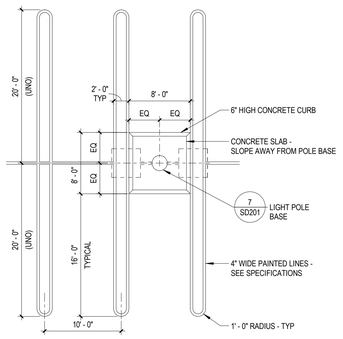
12/22/2025 9:40:23 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
GOVERNING AGENCIES
LEES SUMMIT, MISSOURI
03/26/2026 4:03:44



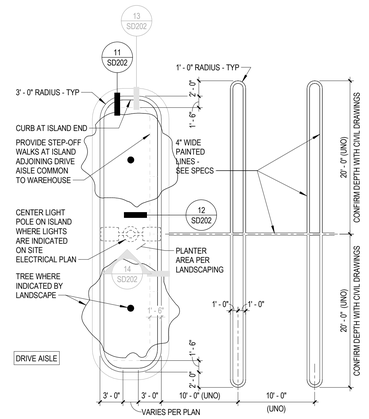
1 TIRE INFLATION STATION

SCALE: 1/8" = 1'-0" 0124



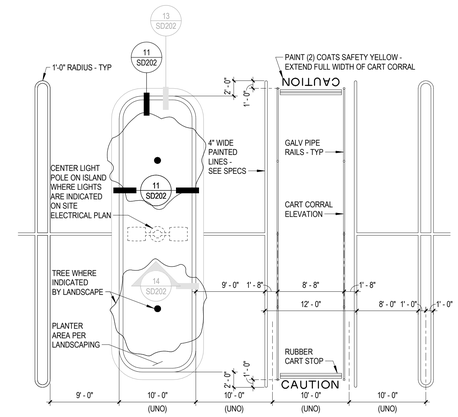
2 ISLAND AT LIGHT POLE

SCALE: 1/8" = 1'-0" 0221



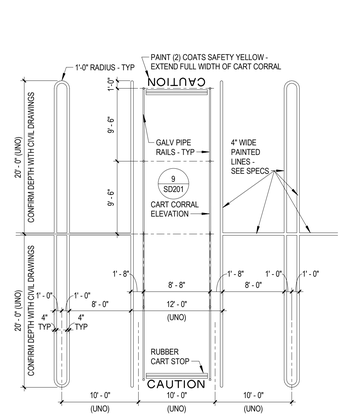
3 END ISLAND CURBS

SCALE: 1/8" = 1'-0" 1025



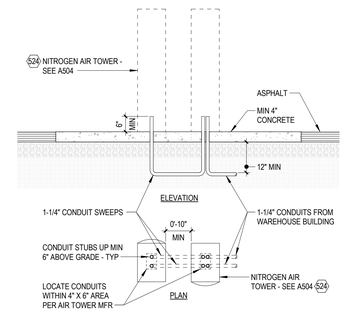
4 MIDDLE ISLAND AT CART CORRAL

SCALE: 1/8" = 1'-0" 1025



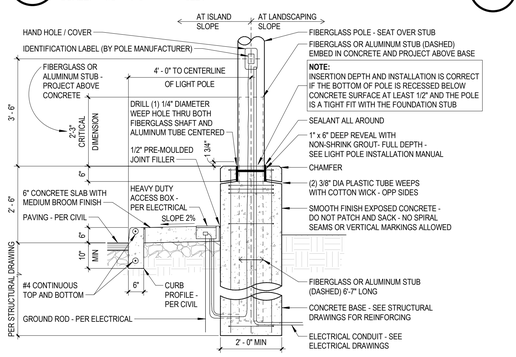
5 CART CORRAL & TYPICAL PARKING STALL

SCALE: 1/8" = 1'-0" 0124



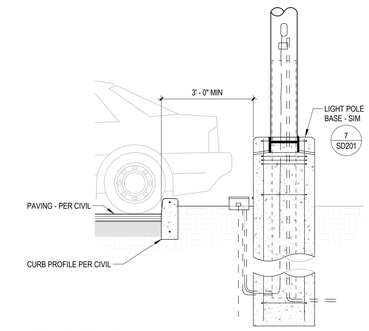
6 NITROGEN AIR TOWER ENLARGED DETAIL

SCALE: 1/2" = 1'-0" 0124



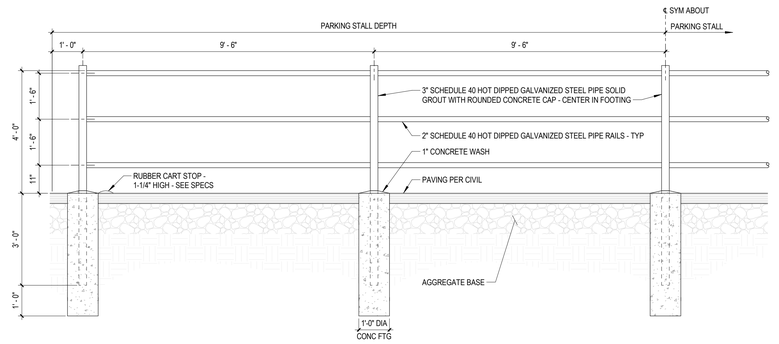
7 LIGHT POLE BASE AT CONCRETE ISLAND / LANDSCAPING

SCALE: 1/2" = 1'-0" 0720



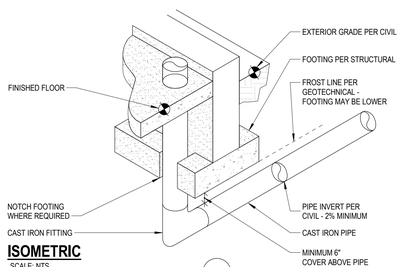
8 LIGHT POLE LOCATION WHERE PARKING OCCURS

SCALE: 1/2" = 1'-0" 0814



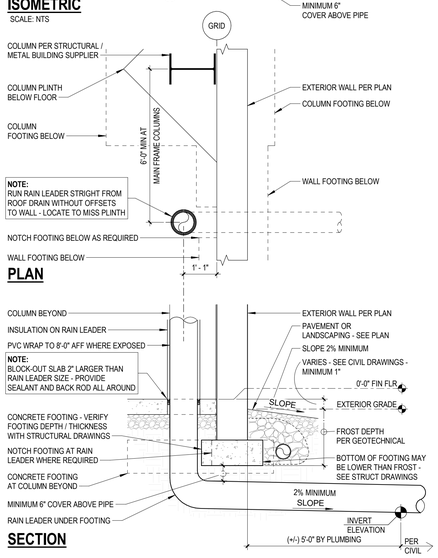
9 CART STORAGE

SCALE: 1/2" = 1'-0" 0124



ISOMETRIC

SCALE: NTS

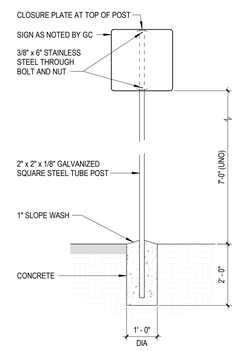


PLAN

SECTION

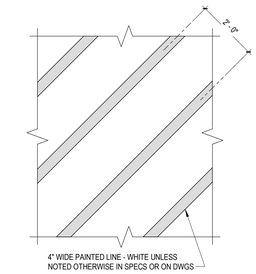
17 RAIN LEADER INVERT ELEVATION

SCALE: 1/2" = 1'-0" 0721



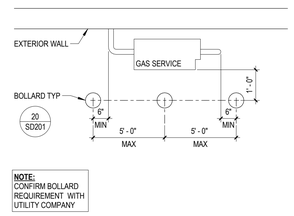
13 SITE SIGNAGE POST

SCALE: 1/2" = 1'-0" 0521



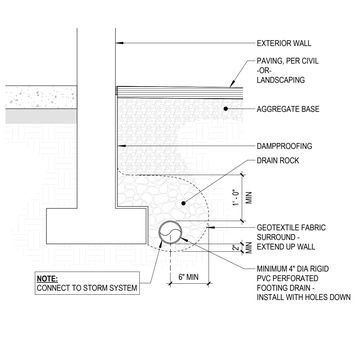
14 PAINTED STRIPE

SCALE: 1/2" = 1'-0" 0515



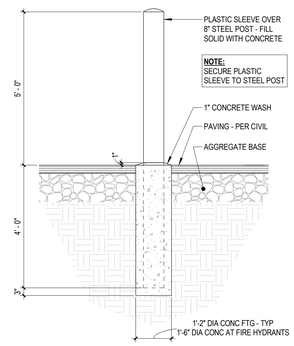
15 BOLLARD AT GAS SERVICE

SCALE: 1/2" = 1'-0" 0213



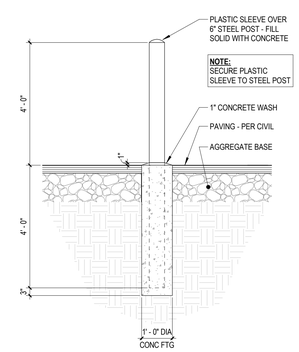
18 FOOTING DRAIN

SCALE: 3/4" = 1'-0" 0109



19 5-FEET TALL EXTERIOR BOLLARD

SCALE: 1/2" = 1'-0" 0721 WHERE SHOWN ON PLANS



20 TYPICAL EXTERIOR BOLLARD

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

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

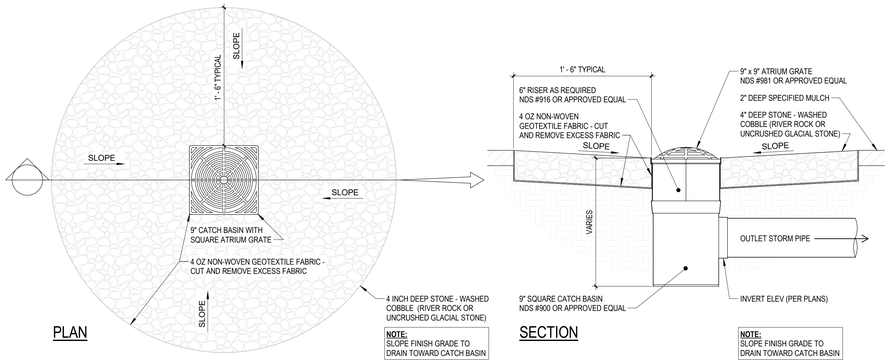
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

SITE DETAILS

SD201

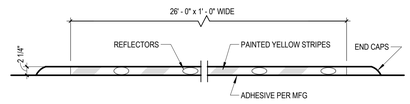
12/22/2025 9:40:26 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT RELIEVE
LESS PERMIT, MISSOURI
03/26/2026 4:03:45



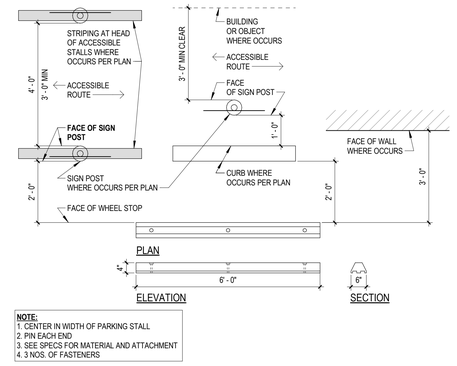
1 LANDSCAPING STORM DRAIN

SCALE: 1 1/2" = 1'-0" 0213



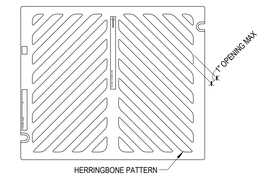
3 SPEED BUMP

SCALE: 3/4" = 1'-0" 0317



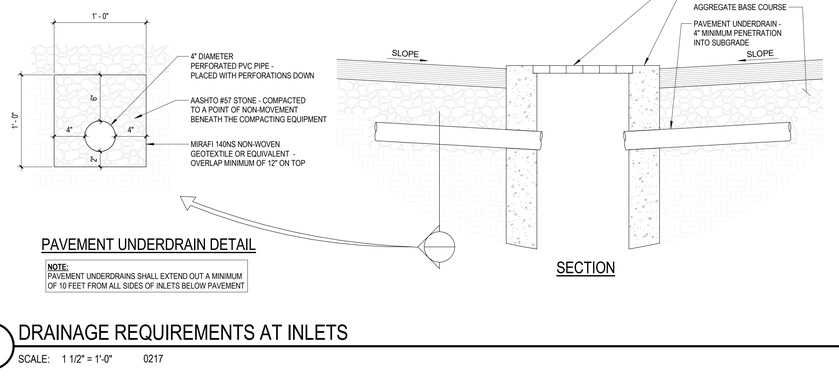
4 WHEEL STOP

SCALE: 1/2" = 1'-0" 1222



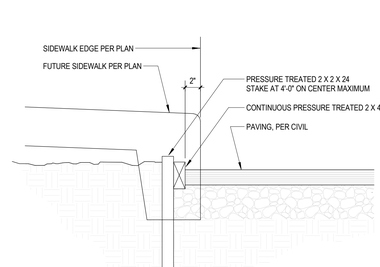
5 STORM DRAIN GRATE

SCALE: 1 1/2" = 1'-0" 0213



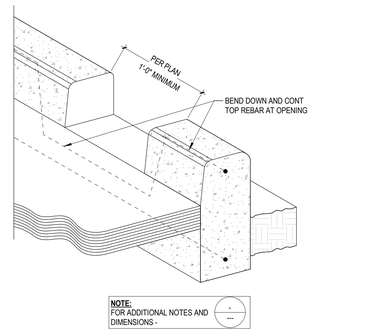
6 DRAINAGE REQUIREMENTS AT INLETS

SCALE: 1 1/2" = 1'-0" 0217



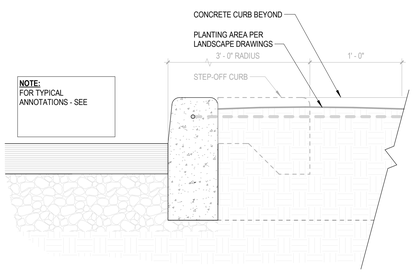
8 TEMPORARY EDGE OF PAVEMENT

SCALE: 1 1/2" = 1'-0" 0213



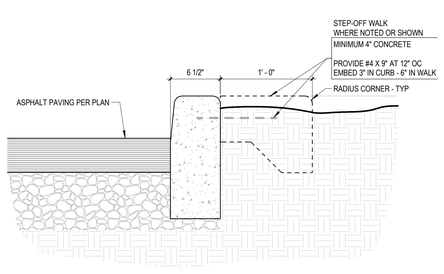
9 CURB OPENING FOR DRAINAGE

SCALE: 1 1/2" = 1'-0" 0613



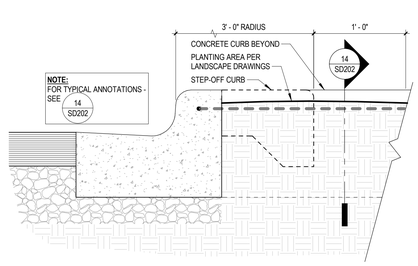
11 CURB AT ISLAND END

SCALE: 1 1/2" = 1'-0" 1025



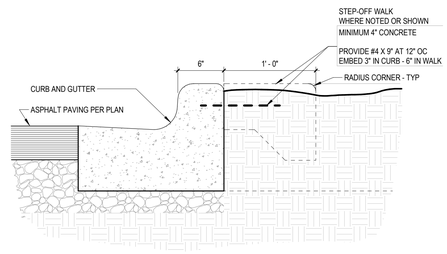
12 CURB AT STRAIGHT CURB

SCALE: 1 1/2" = 1'-0" 1025



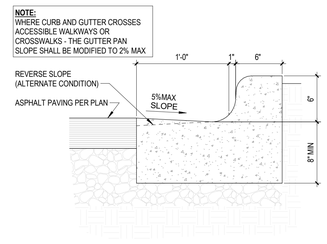
13 CURB AND GUTTER AT ISLAND END

SCALE: 1 1/2" = 1'-0" 1025



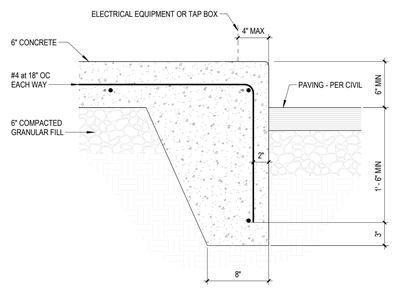
14 CURB AND GUTTER AT STRAIGHT CURB

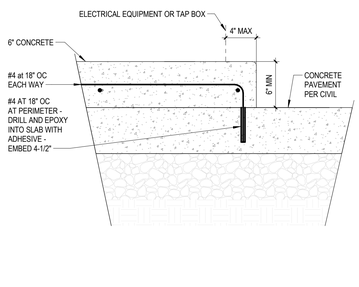
SCALE: 1 1/2" = 1'-0" 1025



15 CONCRETE CURB AND GUTTER

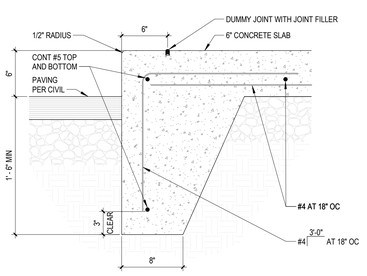
SCALE: 1 1/2" = 1'-0" 1025





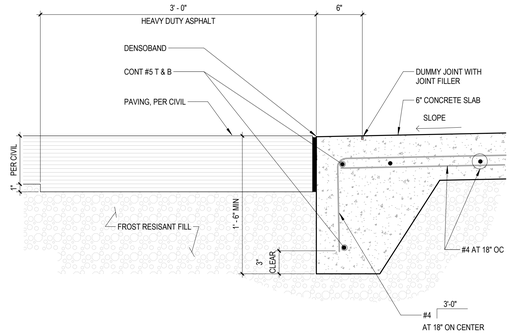
16 EXTERIOR EQUIPENT PAD

SCALE: 1 1/2" = 1'-0" 1121



18 EDGE OF SIDEWALK AT PAVEMENT

SCALE: 1 1/2" = 1'-0" 1018



19 FLUSH CURB AT PAVEMENT

SCALE: 1 1/2" = 1'-0" 0923

COSTCO WHOLESALE
10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

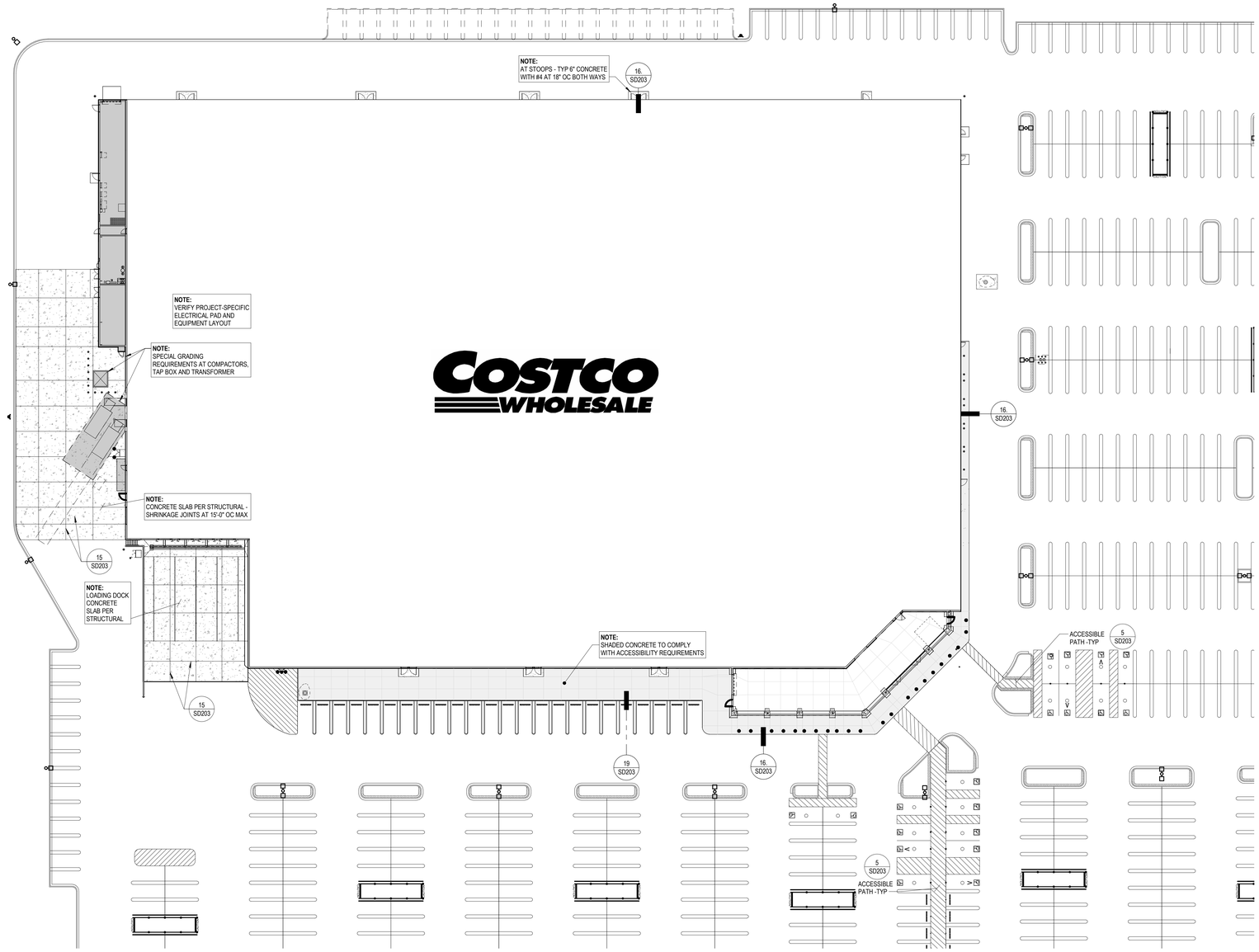
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

SITE DETAILS

SD202

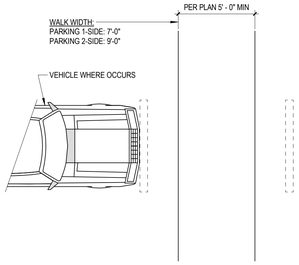
12/22/2025 9:40:28 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF THE PROJECT SPECIFICATIONS
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:45



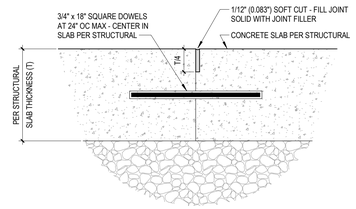
12 CONCRETE WALKS AND PAVEMENT

SCALE: 1" = 30'-0"

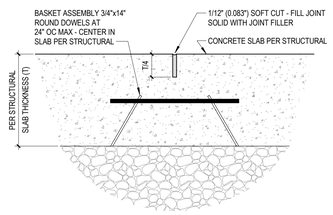


5 ACCESSIBLE PATH TO PUBLIC WAY

SCALE: 1/4" = 1'-0" 0319



B CONSTRUCTION JOINT

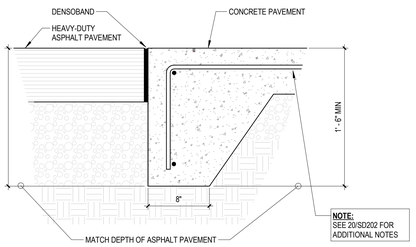


A SHRINKAGE JOINT

NOTE:
SEE STRUCTURAL FOR JOINT
LOCATION AND REINFORCING

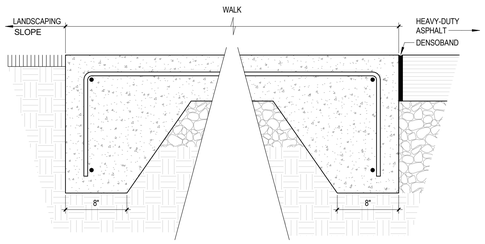
15 DOCK AND COMPACTOR SLAB ONLY

SCALE: 3" = 1'-0" 1222



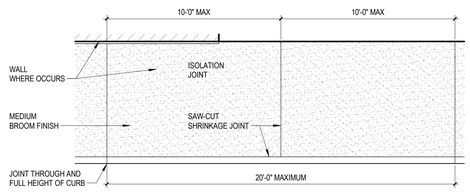
16. ASPHALT TO CONCRETE PAVEMENT

SCALE: 1 1/2" = 1'-0" 0923



18 WALK AT LANDSCAPE

SCALE: 1 1/2" = 1'-0" 0119

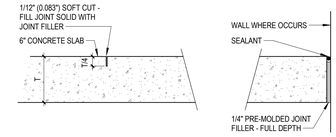


PLAN

NOTE:
PROVIDE 6" CONCRETE WITH #4 AT 18" OC AT WALKS THAT CONNECTS TO:
1. ENTRY SLAB (SEE A704)
2. STOOPS OR BUILDING

19 CONCRETE WALKS

SCALE: 1 1/2" = 1'-0" 0221



A SHRINKAGE JOINT **B ISOLATION JOINT**

20 CONCRETE WALKS - JOINTS

SCALE: 1 1/2" = 1'-0" 0923

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO
WHOLESALE
CORPORATION

730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101

206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR
PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

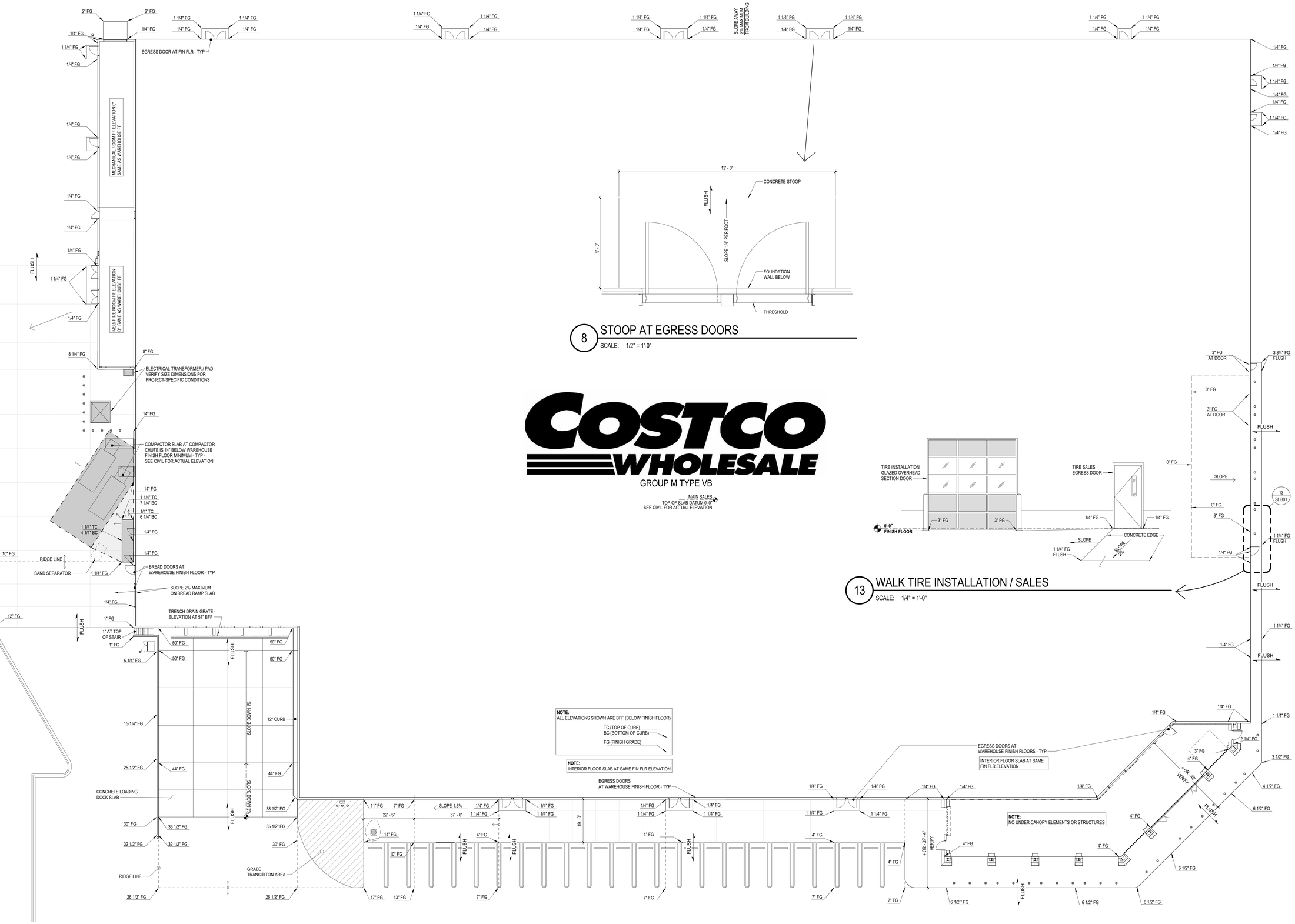
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

CONCRETE WALKS
AND PAVEMENT

SD203

12/22/2025 9:40:34 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT INCLUDES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:45



8 STOOP AT EGRESS DOORS
SCALE: 1/2" = 1'-0"

13 WALK TIRE INSTALLATION / SALES
SCALE: 1/4" = 1'-0"

COSTCO WHOLESALE
GROUP M TYPE VB

MAIN SALES
TOP OF SLAB DATUM 0'-0"
SEE CIVIL FOR ACTUAL ELEVATION

16 GRADING PLAN
SCALE: 1/16" = 1'-0" 0125

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

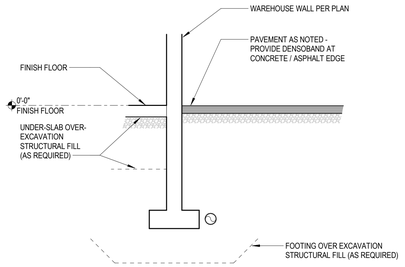
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

GRADING AROUND BUILDING PAD

SD301

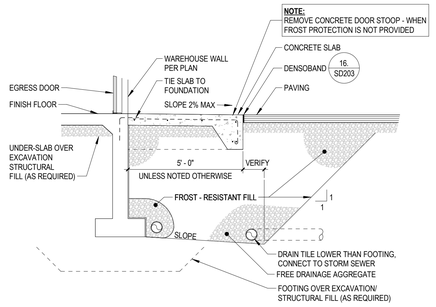
12/22/2025 9:40:40 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CITY OF LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:45



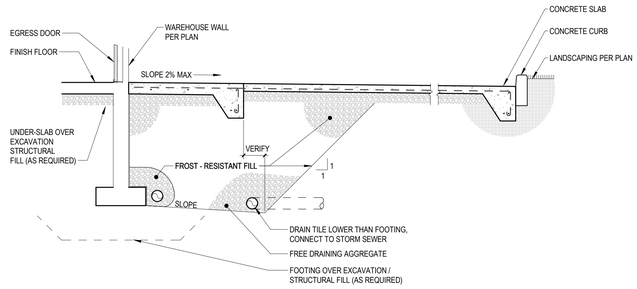
1 ALONG WALL

SCALE: 3/8" = 1'-0" 0520



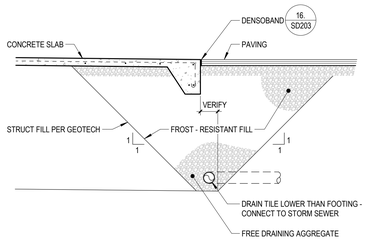
2 AT EGRESS DOOR WITH STOOP

SCALE: 3/8" = 1'-0" 1221 FOR COLD CLIMATE ONLY



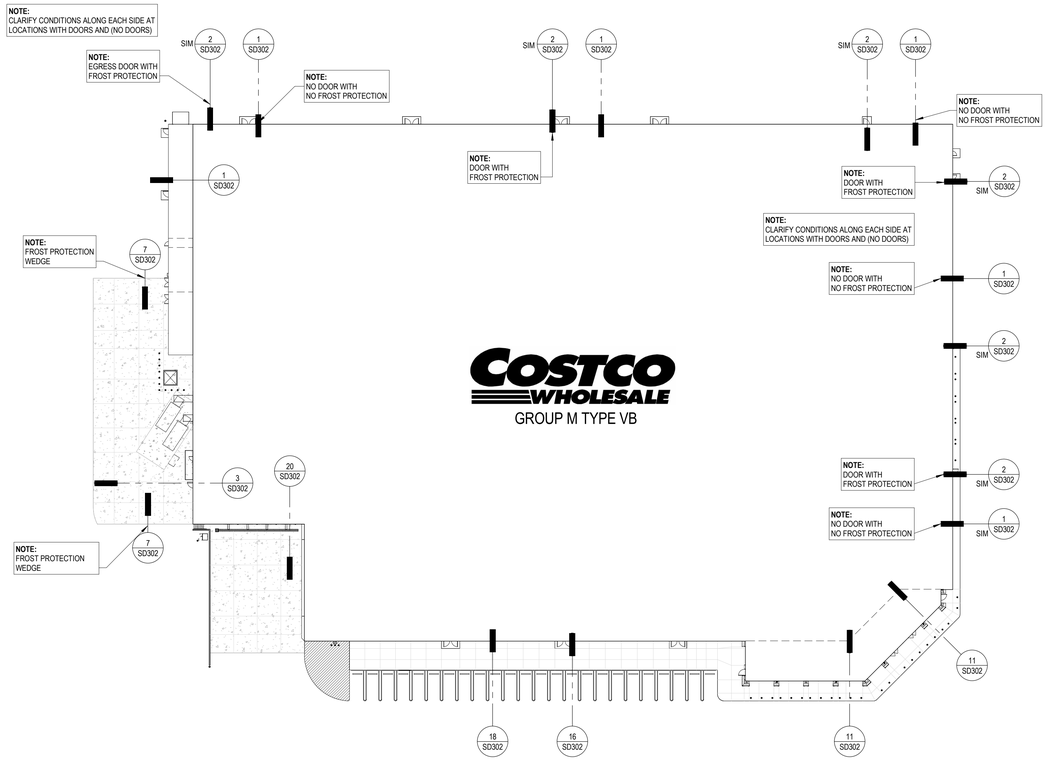
3 AT RECEIVING DOOR

SCALE: 3/8" = 1'-0" 0623



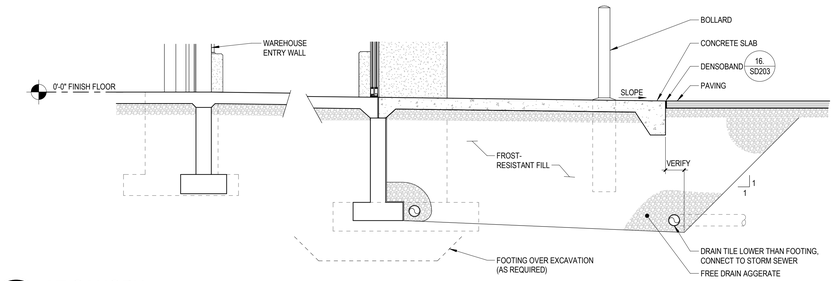
7 FROST PROTECTION WEDGE

SCALE: 3/8" = 1'-0" 0520



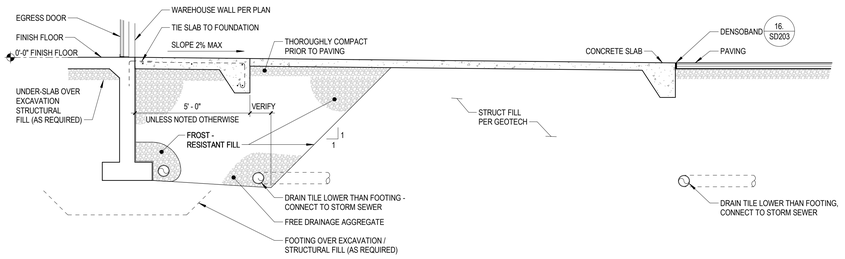
14 SITE PLAN - KEY

SCALE: 1" = 40'-0"



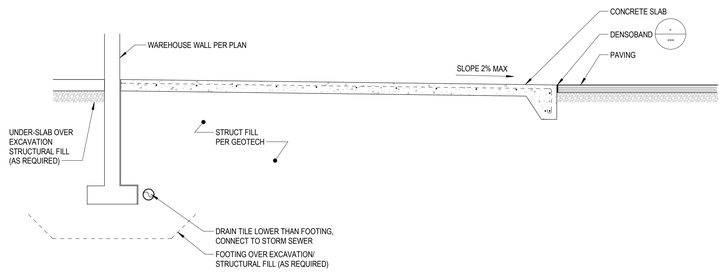
11 AT CANOPY

SCALE: 3/8" = 1'-0" 0623



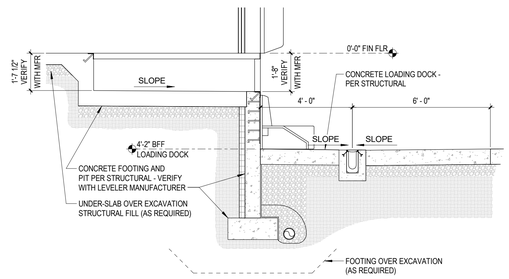
16 AT EGRESS DOOR WITH WALKWAY

SCALE: 3/8" = 1'-0" 0821



18 WALKWAY AT PARKING

SCALE: 3/8" = 1'-0" 0821



20 AT LOADING DOCK

SCALE: 3/8" = 1'-0" 0523

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

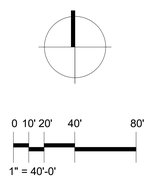
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

SUB-SURFACE BUILDING PAD IMPROVEMENTS

SD302

12/22/2025 9:40:44 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF THE BUILDING SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:45

IMPORTANT NOTE:
GRID AT EXTERIOR WALL IS INTERIOR FACE OF STEM WALL - SEE: 2/A701

PROVIDE SECURITY BARRIER AT WAREHOUSE WALL - SEE: 20/A601

STEEL RACKS AGAINST WALLS TO BE EQUIPPED WITH PALLET-STOPS, TYP

STEEL STORAGE RACKS TO 15'-0" HEIGHT WITH STORAGE TO 20' - 0" AFF (SOIC) - TYPICAL

STEEL STORAGE RACKS TO 15'-0" HEIGHT WITH STORAGE TO 20'-0" AFF (SOIC) - TYPICAL

MECHANICAL ROOM 191
HALLWAY 185
FIRE DEPT ROOM 190
MSB 192
FIRE SPRINKLER RISERS
EDGE OF CONC
TAP BOX
TRANSFORMER
BULK STORAGE (SIO)
BALERS 129
BALER (SOIC)
COMPACTOR
EYEWASH STATION
SAND SEPARATOR
CONCRETE - SEE SD101
EDGE OF CONC
PROPANE CAGE (SIO)
LOADING DOCK

TALL DAIRY COOLER 105
DELI / DISH PREP 110
DELI / DISH PREP 110
TALL DELI / MEAT COOLER 116
SCRUBBER PIT 123
RTV 106
DEMONSTRATION 159
BARRIER FREE RESTROOM 124
FLEET RESTROOM 127
RECEIVING 121
ROLLING SERVICE DOOR AT DOOR #18
LOADING DOCK ROLLING SERVICE DOOR
TALL BAKERY FREEZER 119
BAKERY 117
BAKERY COOLER 118
ROTISSERIE 111
ROTISSERIE PREP 112
MEAT PREP 115
40' D.I.2 CASE (SIO)
6W M.I. CASE (SIO)
CAKE CASE
TALL PRODUCE COOLER 107
GREASE INTERCEPTOR - SEE PLUMBING DWGS
GAS SERVICE

POS COOLER 102
POS SUB-ZERO FREEZER 104
POS FREEZER 103
OPTIONAL 90° POS COOLER
ALIGN
MAIN SALES 101
IDF BOX (SIO) - SEE ELEC DWGS
FLORAL MERCHANDISER (SIO) - VERIFY LOCATION WITH WAREHOUSE MANAGER
FINISH FLOOR ELEVATION (DATUM) 0'-0" VERIFY ACTUAL ELEVATION WITH CIVIL DRAWINGS
FOR RACK ANCHORAGE - TYP
EXTERIOR DOOR - TYP
SHADED AREA IS EXTENT OF DRY SHAKE HARDENER PER SPEC 033300

NOTE:
COLUMN WRAP AT EXPOSED COLUMN - TYP

PROFESSIONAL SERVICES 132
PHARMACY 131
LAB 133
CONSULT ROOM #2 175
CONSULT ROOM #1 174
FUTURE CONSULT ROOM 176
EMPLOYEE LOCKER ROOM 153
OPTICAL OFFICE 173
CONTACT LENS 177
TEST AREA 178
VAULT 148
QUIET ROOM 137
ANTE ROOM 150
HEARING CENTER 147
MANAGER 152
EDP 149
OFFICE 151
MEN'S RESTROOM 142
ELECTRICAL ROOM 145
OPTICAL SALES 172
HALLWAY 101A
JANITOR 144
FAMILY RESTROOM 140
VESTIBULE 141
WOMEN'S RESTROOM 143
5" - 0" CL OF DUCT
MPU 154
(2) FUTURE ACCESSIBLE CHECKSTANDS
CHAIN-LINK FENCE
MANAGER PODIUM (SOIC) - LOCATE PER OWNER
COOLER 183
FOOD SERVICE 181
FOOD PREP 182
FOOD PREP 184
TIRE STORAGE AREA 166
TIRE INSTALLATION 162
BARRIER-FREE RESTROOM 165
CHECKSTAND UNDER FLOOR DUCT - SEE ELEC
CL OF DUCT
(12) ACCESSIBLE CHECKSTANDS
CLEAR AT ADA CHECKSTANDS
(6) SELF-SERVE CHECKOUT (SIO)
POWER FENCE (SIO)
UNDERFLOOR J-BOX - TYP - ALSO SEE ELEC
JEWELRY DISPLAY
MEMBERSHIP COUNTER 109
RETURNS COUNTER 108
TIRE SALES 164
CHAIN-LINK FENCE AND GATE
CHAIN-LINK FENCE
ENCLOSED CANOPY 186

PROJECT DATA

WAREHOUSE	158,261 SF
ENVELOPE / EXTERIOR WALL	1,636 SF
ENCLOSED CANOPY	3,560 SF
FIRE DEPT ROOM	464 SF
MECHANICAL ROOM	1,191 SF
MSB	590 SF
HALLWAY	96 SF
TOTAL BUILDING - GROSS	165,797 SF

RACK COUNT -

TYPE	PALLET TOTAL	RACK TOTAL
GROCERY PALLETS	100	0
GROCERY RACKS (15 FT)	680	340
GROCERY RACKS (HALF)	5	5
HARDLINE PALLETS	36	0
HARDLINE RACKS (15 FT)	344	172
CENTER SECTION	19,847 SF	

NOTE: SEE G203 FOR SIGNAGE LOCATIONS

NOTE: TO DETERMINE DOOR OPENING SIZE - SEE DOOR SCHEDULE ON A602 AND DETAILS ON A602.2 AND 602.3

NOTE: LOCATE KNOX BOXES AS DIRECTED BY FIRE DEPT MAKE PROVISIONS TO TIE INTO SECURITY SYSTEM

NOTE: ADD ADDITIONAL INSULATION AT PLUMBING LSEE: 2/A601AINST EXTERIOR WALL -

16 MAIN FLOOR
SCALE: 1/16" = 1'-0"

COSTCO WHOLESALE
10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

0 4' 8' 16' 32'
1/16" = 1'-0"

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

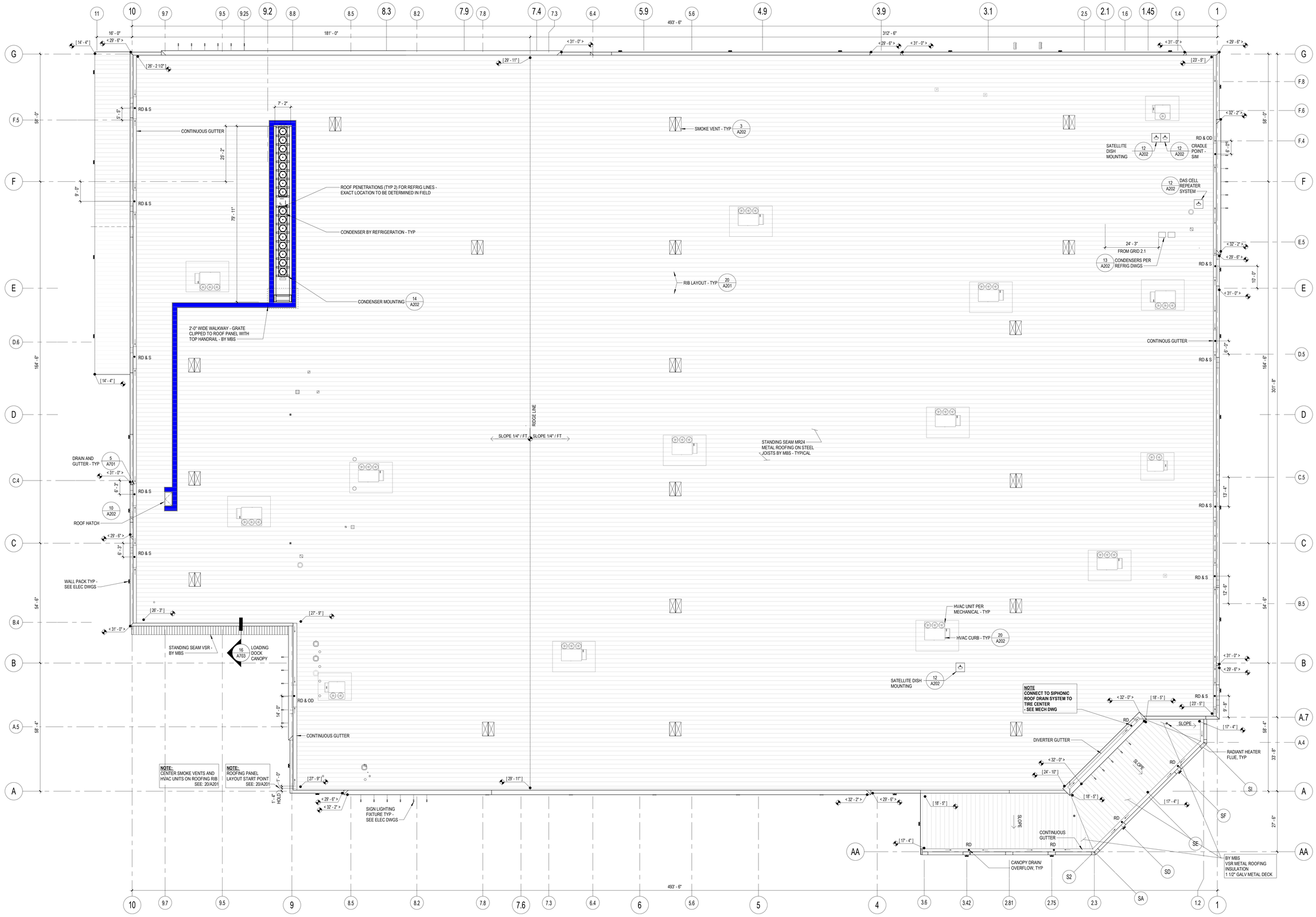
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

FLOOR PLAN

A101

12/22/2025 9:40:50 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT INCLUDE ITEMS
LESS PERMIT, MISSOURI
03/26/2026 4:03:45

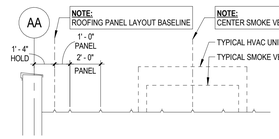


LEGEND

- 5' X 6' SMOKE VENT (WAREHOUSE)
- ACCESS CLEARANCE HVAC PER MECHANICAL DRAWINGS
- < > INDICATES TOP OF COPING/CORNICE ABOVE REFERENCE DATUM 0'-0" (FINISH FLOOR)
- [ ] INDICATES TOP OF STRUCTURAL FRAMING ABOVE REFERENCE DATUM 0'-0" (FINISH FLOOR)
- RD & S ROOF DRAIN AND SCUPPER
- RD & OD ROOF DRAIN AND OVERFLOW DRAIN
- DS DOWNSPOUT
- VENT, EXHAUST FAN, FLUE, ETC. SEE MECHANICAL DRAWINGS

NOTES

1. SEE MECHANICAL FOR MECHANICAL UNIT LOCATIONS
2. SEE PLUMBING FOR CONTINUATION OF RAINLEADERS (CONNECT TO TIGHT-LINED STORM DRAIN SYSTEM)
3. ALL MECHANICAL UNITS TO BE COORDINATED AND VERIFIED WITH METAL BUILDING SUPPLIER PRIOR TO CONSTRUCTION
4. PAINT ALL EXPOSED PIPING TO MATCH THE ROOF: ALUMINUM OR GALVALUME WITH THE EXCEPTION OF GAS PIPING WHICH IS TO BE PAINTED "SAFETY YELLOW" - SEE SPECIFICATION
5. WHERE SCRUPPERS ARE NOTED - SEE A301 FOR LOCATIONS
6. SCUPPER SIZES - WAREHOUSE 30 X 8



1 ROOF PLAN
SCALE: 1/16" = 1'-0" 0225

20 ROOFING PANEL RIB LAYOUT
SCALE: 1/4" = 1'-0" 0123

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

0 4' 8' 16' 32'
1/16" = 1'-0"

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

	DATE	DESCRIPTION
1	12/22/25	PERMIT SET

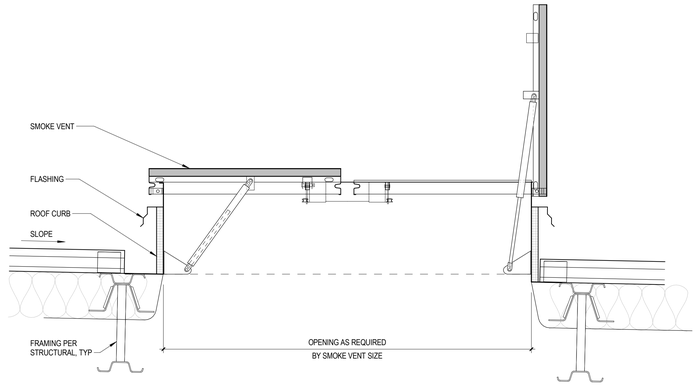
25-5563-01
PM: WILLIE MAK
DRAWN BY:Author
12/22/25

ROOF PLAN

A201

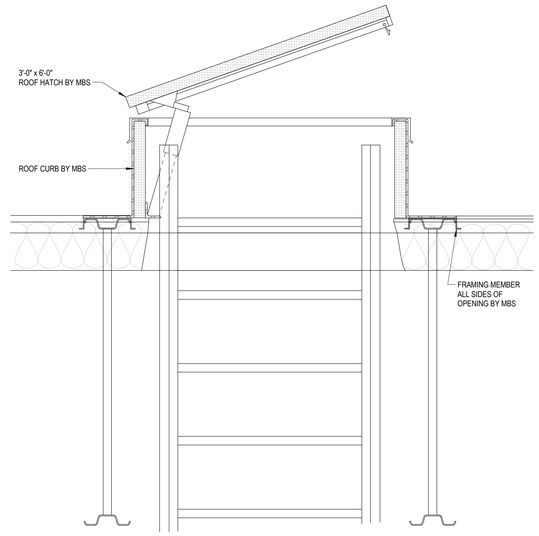
12/22/2025 9:40:51 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT RELIEVE
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:45



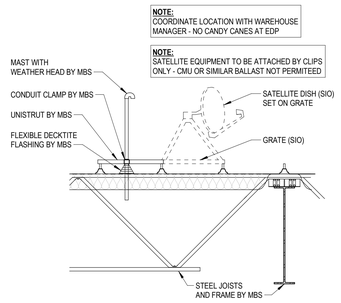
3 SMOKE VENT

SCALE: 1 1/2" = 1'-0" 0124



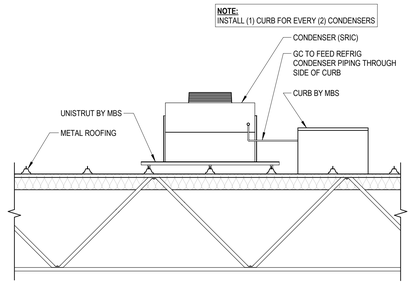
10 ROOF HATCH

SCALE: 1 1/2" = 1'-0" 1020



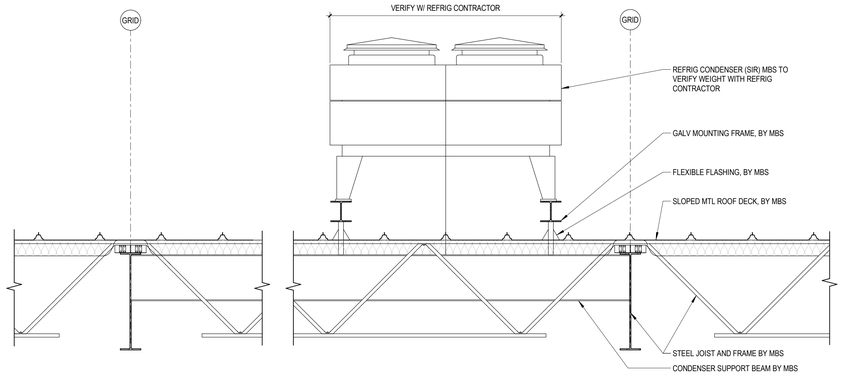
12 SATELLITE DISH MOUNTING AT ROOF

SCALE: 1/2" = 1'-0" 0624



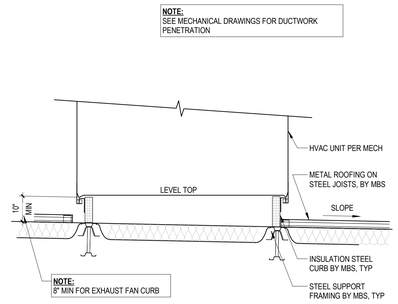
13 CONDENSER AT FOOD SERVICE

SCALE: 1/2" = 1'-0" 0623



14 CONDENSER NEAR RECEIVING

SCALE: 1/2" = 1'-0" 0225



20 HVAC CURB

SCALE: 1/2" = 1'-0" 1013

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO
WHOLESALE
CORPORATION

730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR
PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

	DATE	DESCRIPTION
	12/22/25	PERMIT SET

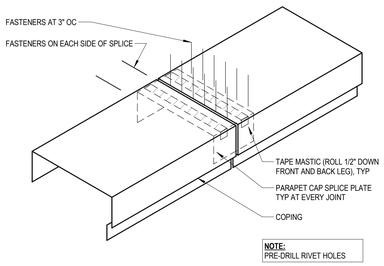
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

ROOF DETAILS

A202

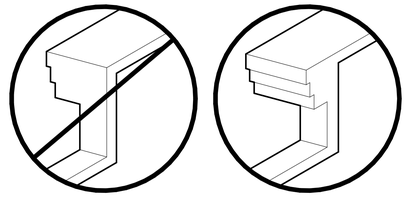
12/22/2025 9:40:51 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
GOVERNING AGENCIES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:45



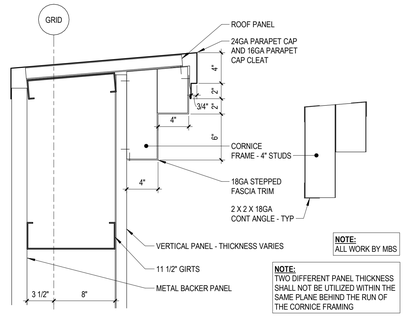
1 COPING JOINT (BY MBS)

SCALE: 1 1/2" = 1'-0" 0820



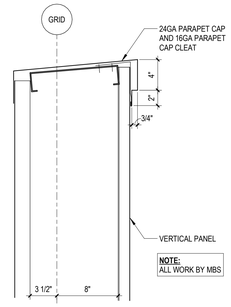
2 CORNICE RETURN

SCALE: 1 1/2" = 1'-0" 0123



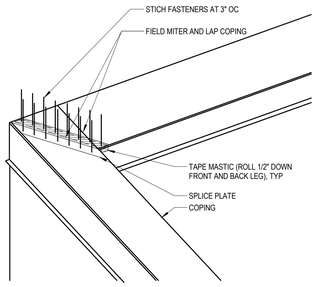
3 CORNICE A AT VERTICAL PANEL

SCALE: 1 1/2" = 1'-0" 0123



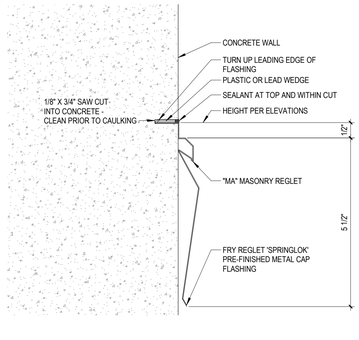
5 COPING 1 x 4 AT VERTICAL PANEL

SCALE: 1 1/2" = 1'-0" 0123



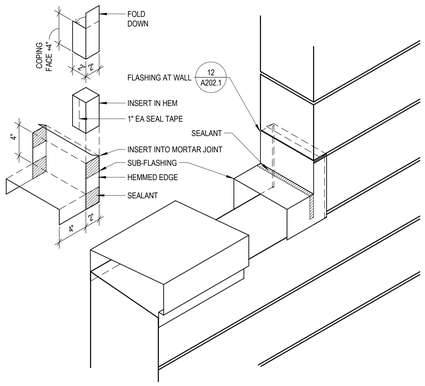
6 COPING CORNER

SCALE: 1 1/2" = 1'-0" 0417



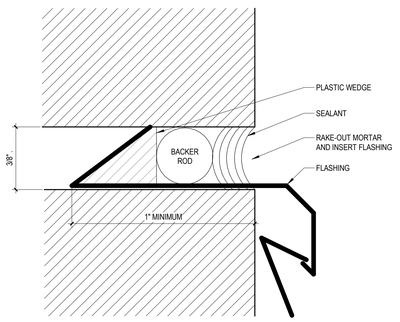
7 CONCRETE WALL FLASHING

SCALE: 6" = 1'-0" 0624



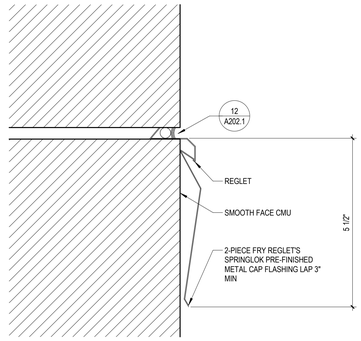
11 SUB-FLASHING

SCALE: 1 1/2" = 1'-0" 1118



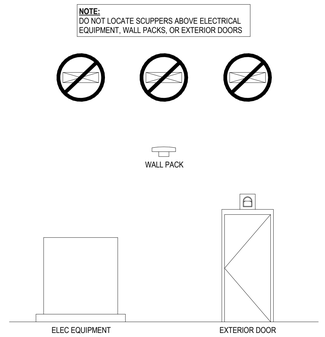
12 SUB-FLASHING AT CMU

SCALE: 3" = 1'-0" 0123



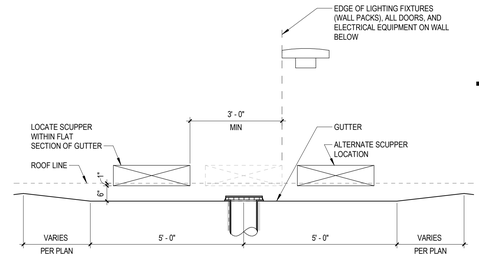
13 FLASHING AT WALL

SCALE: 6" = 1'-0" 0123



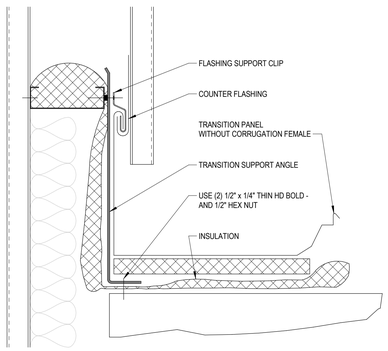
14 PROHIBITED SCUPPER LOCATIONS

SCALE: 1/4" = 1'-0" 0224



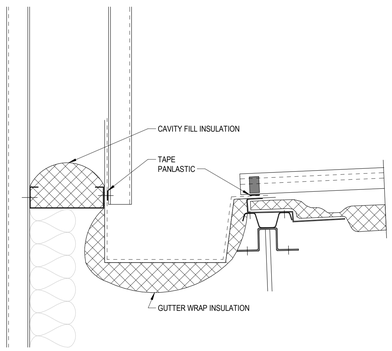
15 SCUPPER LOCATION

SCALE: 1/2" = 1'-0" 0925



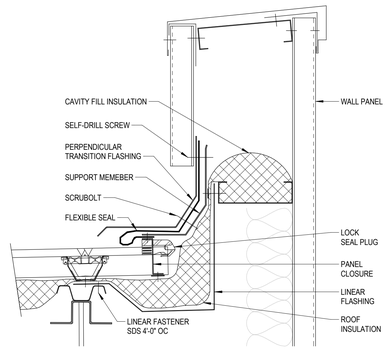
16 AIR BARRIER AT WALL

SCALE: NOT TO SCALE 0123



17 AIR BARRIER AT GUTTER

SCALE: NOT TO SCALE 0818



18 AIR BARRIER - ROOF AT WALL

SCALE: NOT TO SCALE 0123

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

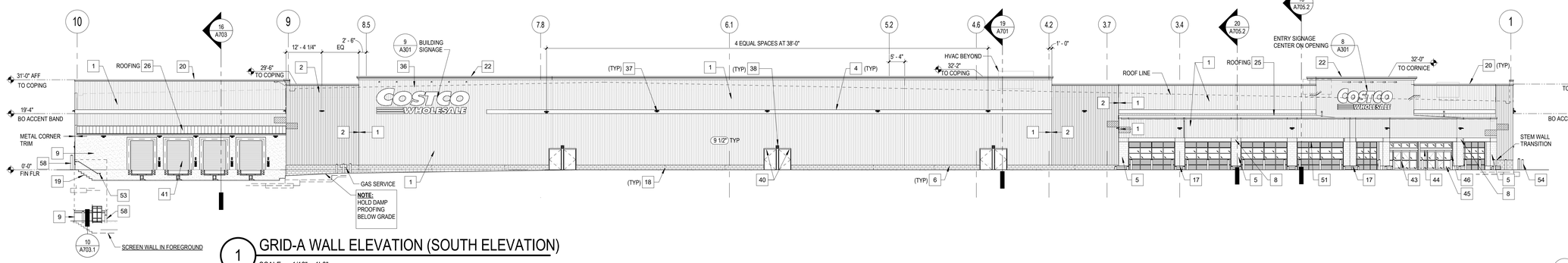
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

ROOF DETAILS

A202.1

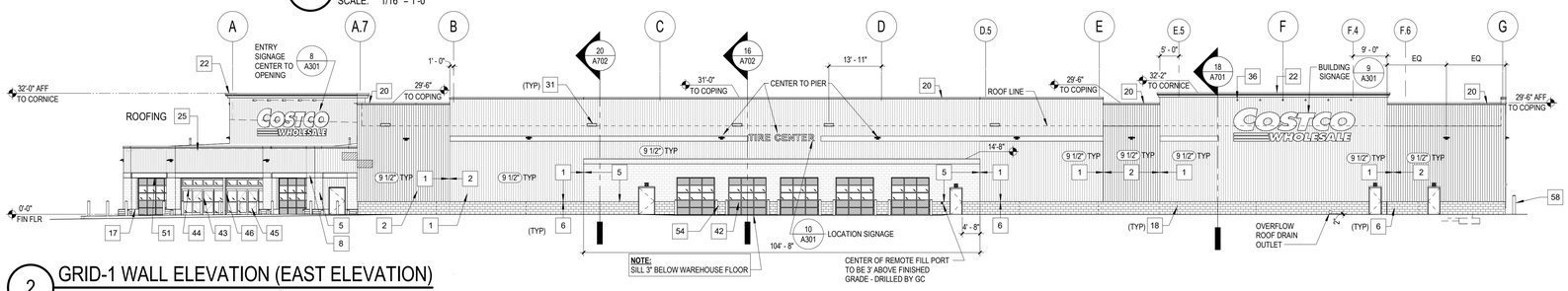
12/22/2025 9:40:53 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COSTCO PROPERTY SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:45



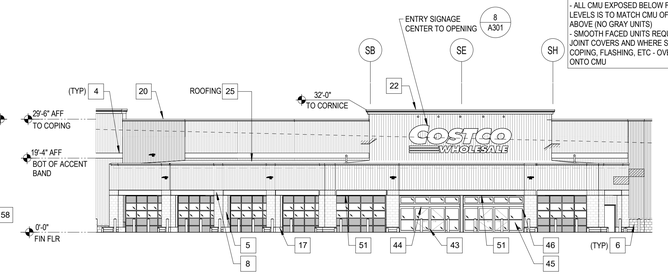
1 GRID-A WALL ELEVATION (SOUTH ELEVATION)

SCALE: 1/16" = 1'-0"



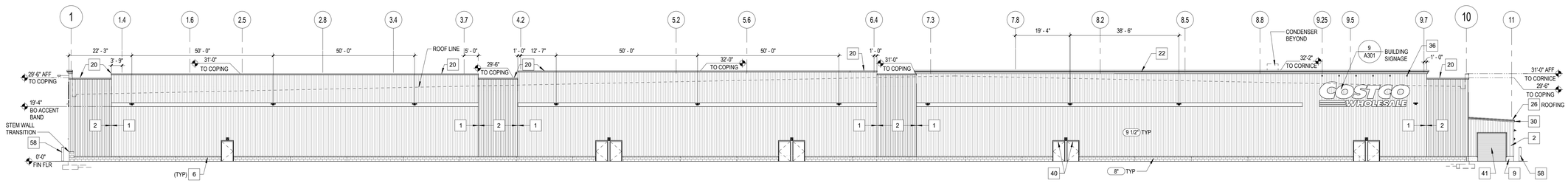
2 GRID-1 WALL ELEVATION (EAST ELEVATION)

SCALE: 1/16" = 1'-0"



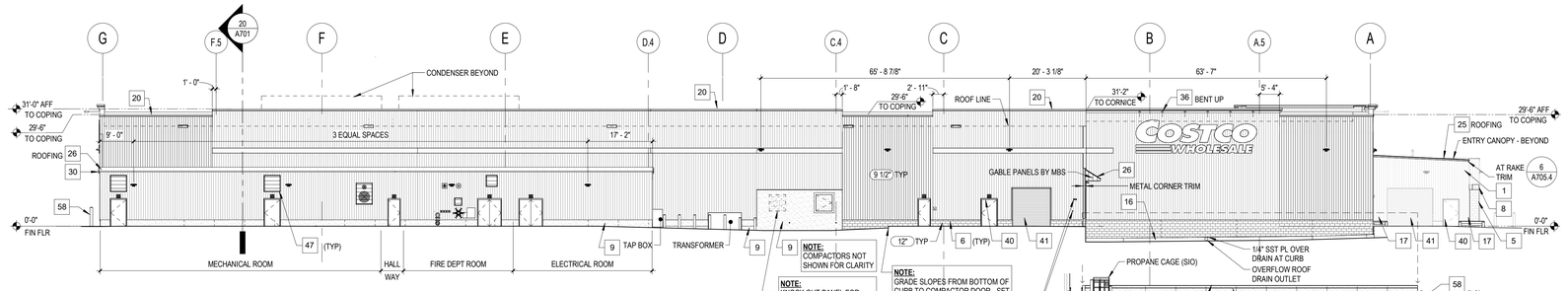
3 GRID-S.2 WALL ELEVATIONS (OUTHEAST ELEVATION)

SCALE: 1/16" = 1'-0"

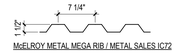


4 GRID-G WALL ELEVATION NORTH ELEVATION)

SCALE: 1/16" = 1'-0"



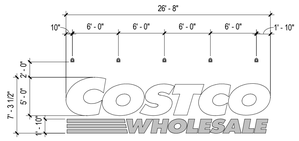
SIDING PROFILE



McELROY METAL MEGA RIB / METAL SALES IC72

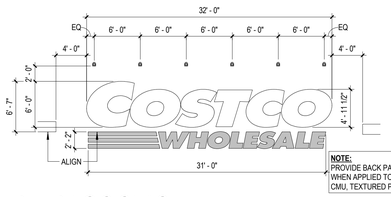
SIGNAGE AREA TABULATION (WALL SIGNS)...

QTY	SIGN	SIZE	AREA (SF) EA	TOTAL SF
4	COSTCO WHOLESALE	6'-0" "C"	251 SF	1004
1	COSTCO WHOLESALE	5'-0" "C"	174 SF	174
1	TIRE CENTER	17'-4" X 1'-9"	31 SF	31
TOTAL SIGNAGE AREA				1209



8 ENTRY SIGNAGE

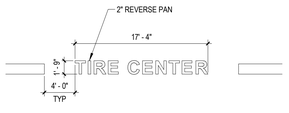
SCALE: 1/8" = 1'-0" 0225 (SUPPLIED AND INSTALLED BY MBS)



NOTE: PROVIDE BACK PANEL ON ALL SIGNAGE EXCEPT WHEN APPLIED TO SOLID FLAT SURFACE; E.G., CMU, TEXTURED PANELS, ETC.

9 BUILDING SIGNAGE

SCALE: 1/8" = 1'-0" 0225 (SUPPLIED AND INSTALLED BY MBS)



10 LOCATION SIGNAGE

SCALE: 1/8" = 1'-0" 1115 (SUPPLIED AND INSTALLED BY MBS)

6 GRID-10 WALL ELEVATION (WEST ELEVATION)

SCALE: 1/16" = 1'-0"

EXTERIOR FINISH SCHEDULE

#	ITEM	MATERIAL	FINISH	COLOR	MFR / NOTES
WALL MATERIALS					
1	METAL PANELS - IC72	METAL	PRE-FINISHED	METALLIC CHAMPAGNE	1
2	METAL PANELS - IC72	METAL	PRE-FINISHED	MISTIQUE PLUS	1
4	ACCENT BAND	METAL	PRE-FINISHED	SAFETY RED SW4081	1
5	MASONRY SPLIT-FACE	CMU 8H X 16L	WATER REPELLENT	SLATE	5
6	MASONRY SMOOTH-FACE	CMU 8H X 16L	WATER REPELLENT	IRONWOOD	5
8	MASONRY SOLDIER COURSE SMOOTH FACE	CMU 16H X 8L	WATER REPELLENT	IRONWOOD	
9	CONCRETE CAST-IN-PLACE	ARCHITECTURAL FINISH	WATER REPELLENT	NATURAL	
MISC WALL					
16	WALL CURB	CONCRETE	WATER REPELLENT	NATURAL	
17	COLUMN PLINTH PLINTH/BENCH	CONCRETE	WATER REPELLENT	NATURAL	ARCHITECTURAL FINISH
18	WALL REVEALS / CONTROL JOINT				SEE 1/A701 & STRUCT DWGS
19	STAIRS	CONCRETE SAFETY NOSING	WATER REPELLENT	NATURAL	
COPING					
20	COPING 1X4	SHEET METAL	PRE-FINISHED	MEDIUM BRONZE	1
21	COPING 1X6	SHEET METAL	PRE-FINISHED	MEDIUM BRONZE	1
22	CORNICE - A	SHEET METAL	PRE-FINISHED	MEDIUM BRONZE	1

EXTERIOR FINISH SCHEDULE

#	ITEM	MATERIAL	FINISH	COLOR	MFR / NOTES
ROOF					
25	STANDING SEAM VSR (CANOPY)	METAL	PRE-FINISHED	COOL IVORY WHITE	CANOPY ROOF; 1
26	STANDING SEAM VSR	METAL	PRE-FINISHED	MEDIUM BRONZE	RECEIVING AWNING AND EXT FIRE DEPT ROOF; 1
27	STANDING SEAM MR24	METAL	PRE-FINISHED	GALVALUME	WAREHOUSE ROOF; SEE ROOF PLAN A201; 1
ARCHITECTURAL SHEET METAL					
30	RAKE/EAVE TRIM	SHEET METAL	PRE-FINISHED		1
31	SCUPPER	SHEET METAL	PAINT & SEALANT BY GC	MATCH WALL COLOR	1,4
LIGHTING					
36	SIGN LIGHTING FIXTURE	METAL	PRE-FINISHED	TECHLIGHT BRONZE	
37	WALL PACK FIXTURE	METAL	PRE-FINISHED		
38	EMERGENCY LIGHT FIXTURE	METAL	PRE-FINISHED		
OPENINGS					
40	DOOR AND FRAME & HSS MULLION BTWN DOORS WHERE OCCURS	STEEL	PAINT BY GC	SW 9172 STUDIO CLAY	2
41	ROLLING SERVICE DOOR	STEEL	PRE-FINISHED	GRAY TAN	1, 3, 6
42	GLAZED SECTIONAL DOOR	ALUMINUM	PRE-FINISHED	GRAY	1, 6
43	AUTO-SLIDING DOOR	ALUMINUM	PRE-FINISHED	DARK BRONZE	
44	TRANSOM FRAMING	ALUMINUM	PRE-FINISHED	MEDIUM BRONZE	

EXTERIOR FINISH SCHEDULE

#	ITEM	MATERIAL	FINISH	COLOR	MFR / NOTES
45	GLAZING	INSULATED GLASS		CLEAR	
46	STOREFRONT FRAMING	ALUMINUM	PRE-FINISHED	MEDIUM BRONZE	
47	LOUVER	STEEL	PRE-FINISHED	MATCH WALL COLOR	
MISCELLANEOUS METALS					
51	ACCENT CHANNEL	STEEL	PAINT BY GC	PAINT TO MATCH MEDIUM BRONZE	1
53	HANDRAIL/GUARDRAIL	STEEL GALVANIZED	PAINT BY GC		2
54	BOLLARD	STEEL PIPE CONCRETE FILL	PLASTIC SLEEVE	RED	2
58	BOLLARD 5-FEET TALL	STEEL PIPE CONCRETE FILL	PLASTIC SLEEVE	RED	2

NOTES:
1. SUPPLIED AND INSTALLED BY MBS
2. SUPPLIED BY MBS, INSTALLED BY GC
3. SUPPLIED IN GRAY BY MBS, FIELD PAINT EXTERIOR ONLY BY GC
4. LOCATE SCUPPER PER 1& 15/A202.1
5. SEE A301.2 FOR LOCATIONS WHERE SMOOTH-FACE IS REQUIRED
6. PAINTER CHANNEL DOOR FRAME TO MATCH ADJACENT WALL COLOR

NOTE: FASTEN METAL PANELS BELOW 8'-0" AFF WITH SECURITY SCREWS - BY MBS

NOTE: DIMENSIONS AND NOTES IN THIS ELEVATION APPLY TO ALL ELEVATIONS UNLESS NOTED OTHERWISE

NOTE: SEE A301.1 FOR WALL PACK SPACING

NOTE: SEE 1A/A202.1 AND SEE 15/A202.1 FOR SCUPPER LOCATIONS

NOTE: ELEVATIONS SHOWN ARE TO TOP OF COPING/ CORNICE AND ARE NOT TOP OF GIRT OR MASONRY -- SEE WALL SECTIONS & A202.1 FOR TOP OF GIRT OR MASONRY ELEVATIONS

NOTE: INDICATES GRID TO FACE MATERIAL IN INCHES (12")

NOTE: BOTTOM OF SIDING IS 4" BELOW TOP OF CMU UNO

NOTE: MASON NOTE:
- SEE A301.2
- ALL CMU EXPOSED BELOW FLOOR LEVELS IS TO MATCH CMU OF WALL ABOVE (NO GRAY UNITS)
- SMOOTH FACED UNITS REQUIRED AT JOINT COVERS AND WHERE SIDING, COPING, FLASHING, ETC - OVERLAPS ONTO CMU

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

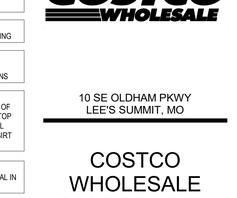
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

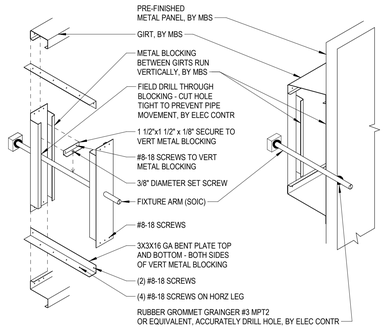
25-5563-01
PM: WILLIE MAK
DRAWN BY: VA
12/22/25

EXTERIOR ELEVATIONS

A301

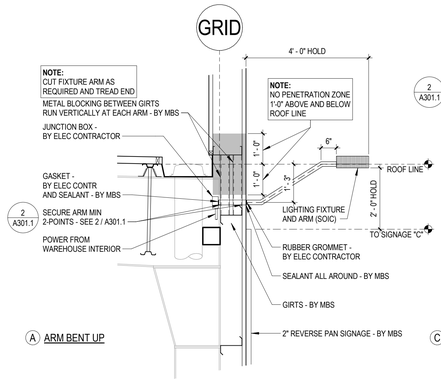
Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt
12/22/2025 9:40:59 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT RELIEVE
LESS PERMIT, MISSURI
03/26/2026 4:03:46



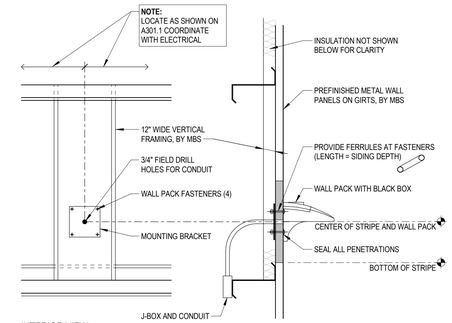
2 SIGN LIGHTING - MOUNTING ARM

SCALE: 1/2" = 1'-0" 0724



3 SIGN LIGHTING FIXTURE MOUNTING

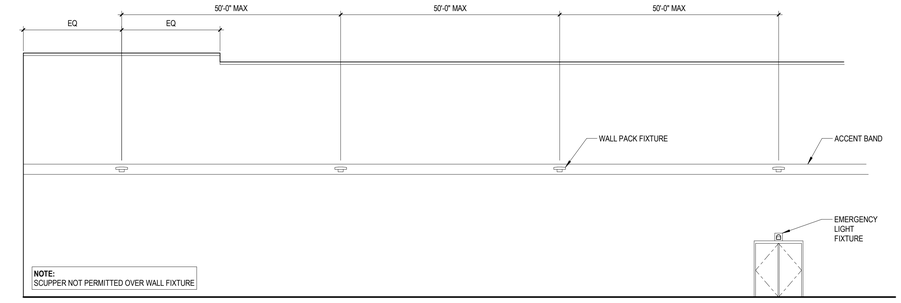
SCALE: 1/2" = 1'-0" 0724



INTERIOR VIEW

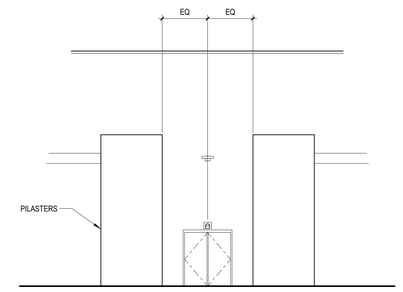
10 WALL PACK AT METAL PANELS

SCALE: 1" = 1'-0" 0624



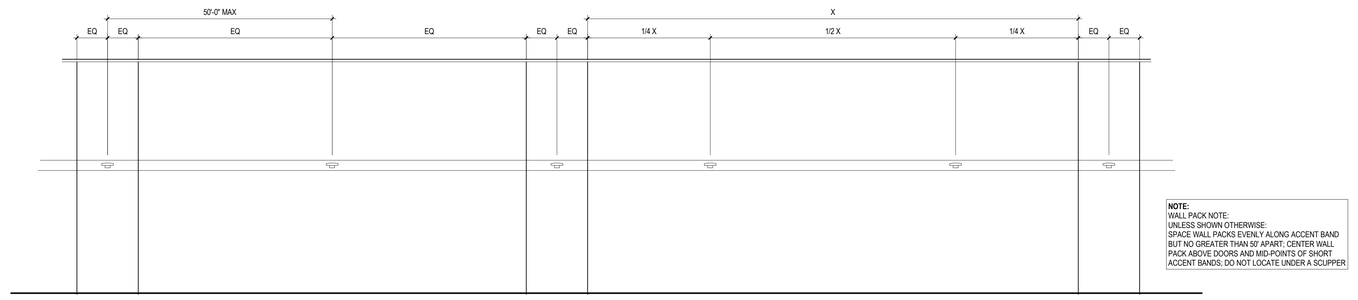
13 WALL PACK SPACING TYP

SCALE: 1/8" = 1'-0" 0318



15 WALL PACK SPACING BTWN PILASTER

SCALE: 1/8" = 1'-0" 0318



18 WALL PACK SPACING AT PILASTERS

SCALE: 1/8" = 1'-0" 0318

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO
WHOLESALE
CORPORATION

730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101

206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

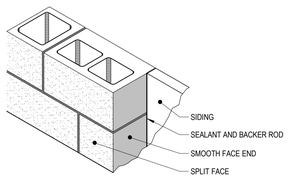
WALL PACK LOCATIONS

A301.1

12/22/2025 9:41:00 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

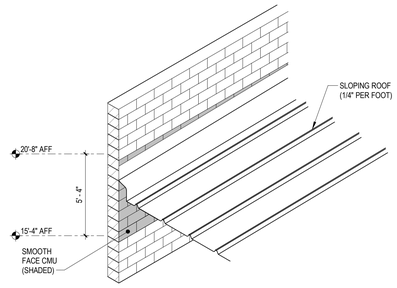
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT RELIEVE
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:46

NOTE:
MASON NOTE:
1. ALL CMU EXPOSED BELOW FLOOR LEVEL IS TO MATCH CMU OF WALL ABOVE (NO GRAY UNITS)
2. SMOOTH FACED UNITS REQUIRED AT JOINT COVERS AND WHERE SIDING, COPING, FLASHING, ETC., OVERLAPS ONTO CMU

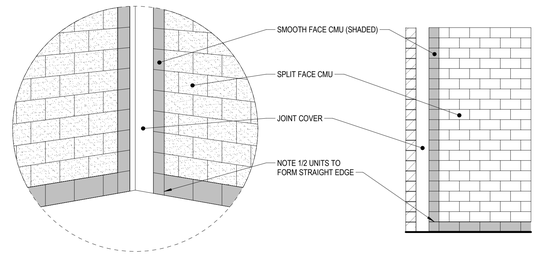


1 SIDING ABUTTING CMU

SCALE: 1" = 1'-0" 0123



Ⓐ AT ROOF

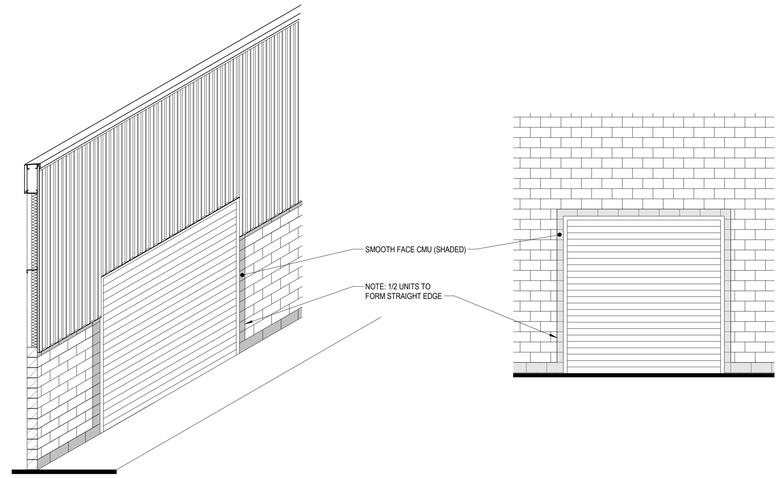


Ⓑ AT INSIDE CORNER

Ⓒ ELEVATION AT WALL

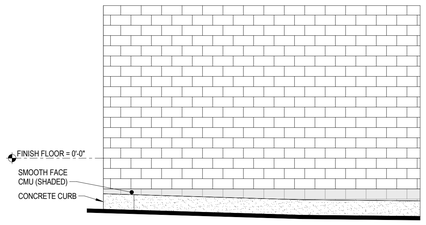
3 AT JOINT COVER

SCALE: 1/4" = 1'-0" 0624



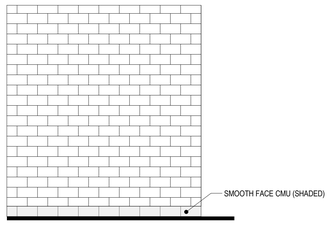
8 AT ROLLING SERVICE DOOR (SECTIONAL DOOR SIM)

SCALE: 1/4" = 1'-0" 0123



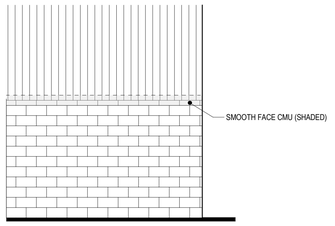
12 CURB AT LOADING DOCK

SCALE: 1/4" = 1'-0" 1223



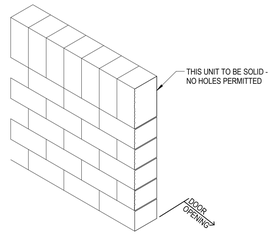
13 WALL ADJOINING PAVEMENT

SCALE: 1/4" = 1'-0" 0123



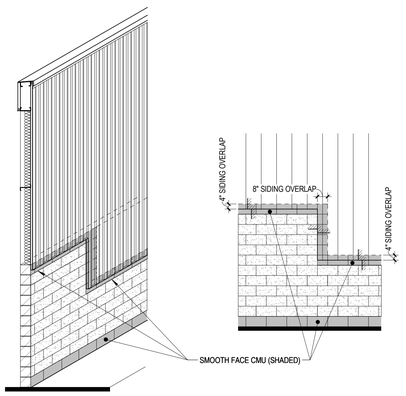
14 SIDING AT CMU

SCALE: 1/4" = 1'-0" 0123



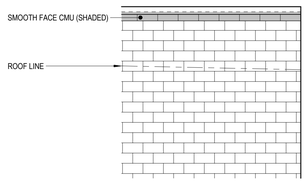
15 SOLDIER COURSE AT DOOR OPENING

SCALE: 1/2" = 1'-0" 0123



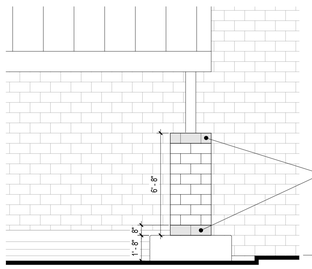
16 AT SIDING STEP

SCALE: 1/4" = 1'-0" 0123



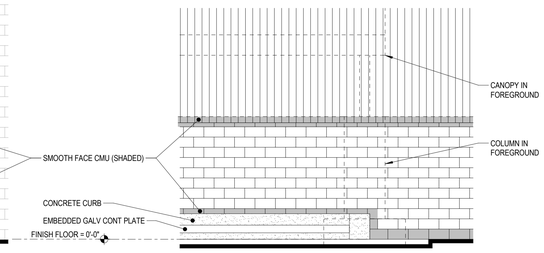
17 AT COPING

SCALE: 1/4" = 1'-0" 0123



19 AT CANOPY COLUMN

SCALE: 1/4" = 1'-0" 0624



20 AT BENCH AT WALL

SCALE: 1/4" = 1'-0" 0624

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO
WHOLESALE
CORPORATION

730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101

206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR
PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

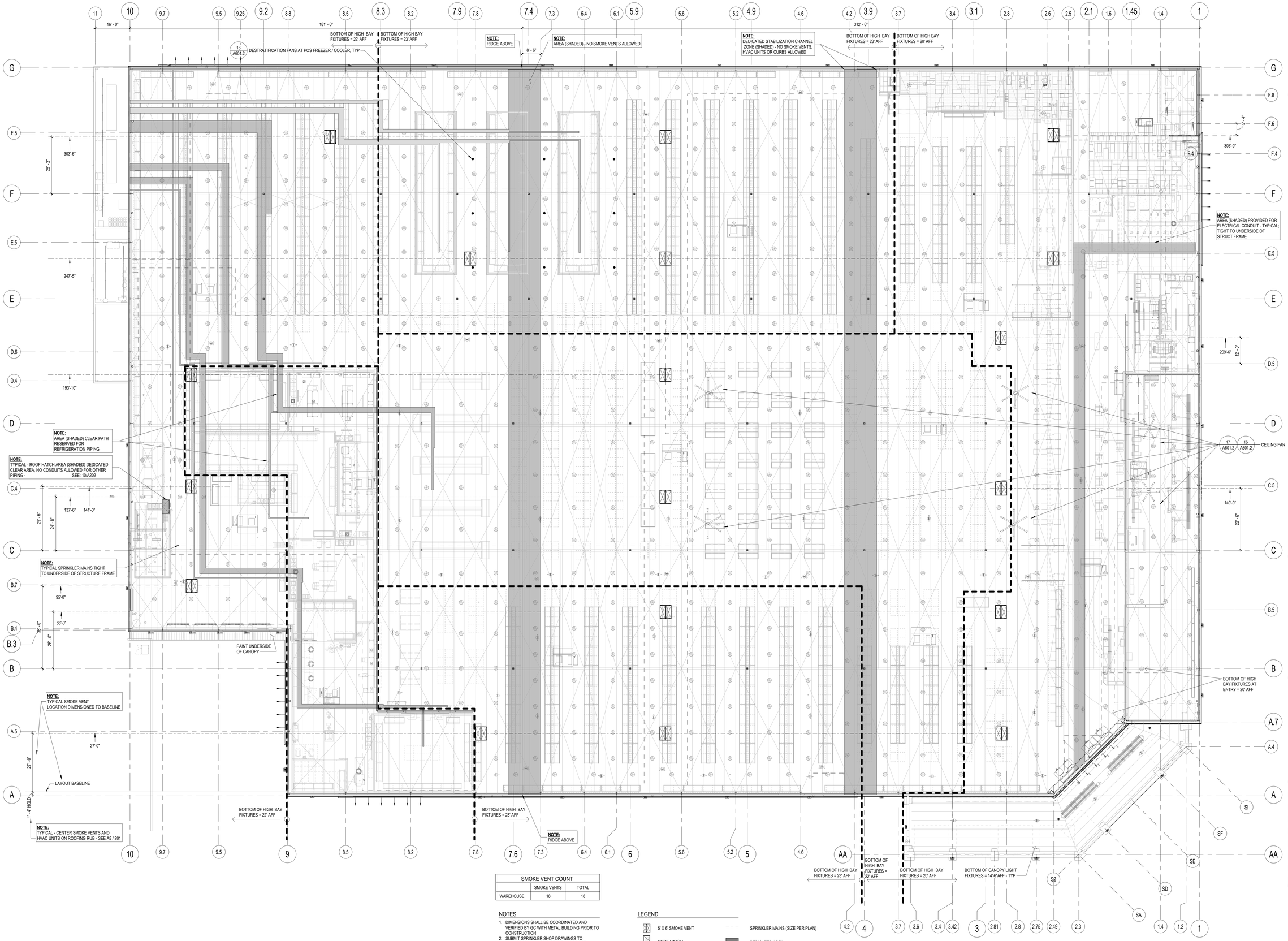
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

SMOOTH FACED CMU
LOCATIONS

A301.2

12/22/2025 9:41:01 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COSTCO PROJECT SERVICES
LEES SUMMIT, MISSOURI
03/26/2026 4:03:46



SMOKE VENT COUNT		
	SMOKE VENTS	TOTAL
WAREHOUSE	18	18

NOTES

1. DIMENSIONS SHALL BE COORDINATED AND VERIFIED BY GC WITH METAL BUILDING PRIOR TO CONSTRUCTION
2. SUBMIT SPRINKLER SHOP DRAWINGS TO ARCHITECT (WITH FIRE DEPARTMENT) FOR REVIEW PRIOR TO INSTALLATION
3. ROUTING OF OVERHEAD REFRIGERATION LINES AND SPRINKLERS MAINS SHALL AVOID SKYLIGHTS AND SMOKE VENTS
4. SEE G301 FOR TYPICAL FIXTURES AND UTILITY MOUNTING DETAILS AT WAREHOUSE CEILING

LEGEND

- 5' X 6' SMOKE VENT
- ROOF HATCH
- ROOF-MOUNTED EQUIPMENT - SEE A201
- CEILING FAN
- DESTRATIFICATION FAN
- SPRINKLER MAINS (SIZE PER PLAN)
- DEDICATED AREA
- LIGHTING FIXTURE
- RADIANT HEATING - SEE MECH DWGS
- BASELINE DIMENSION

16 REFLECTED CEILING PLAN

SCALE: 1/16" = 1'-0"

12/22/2025 9:41:06 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

0 4' 8' 16' 32'
1/16" = 1'-0'

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

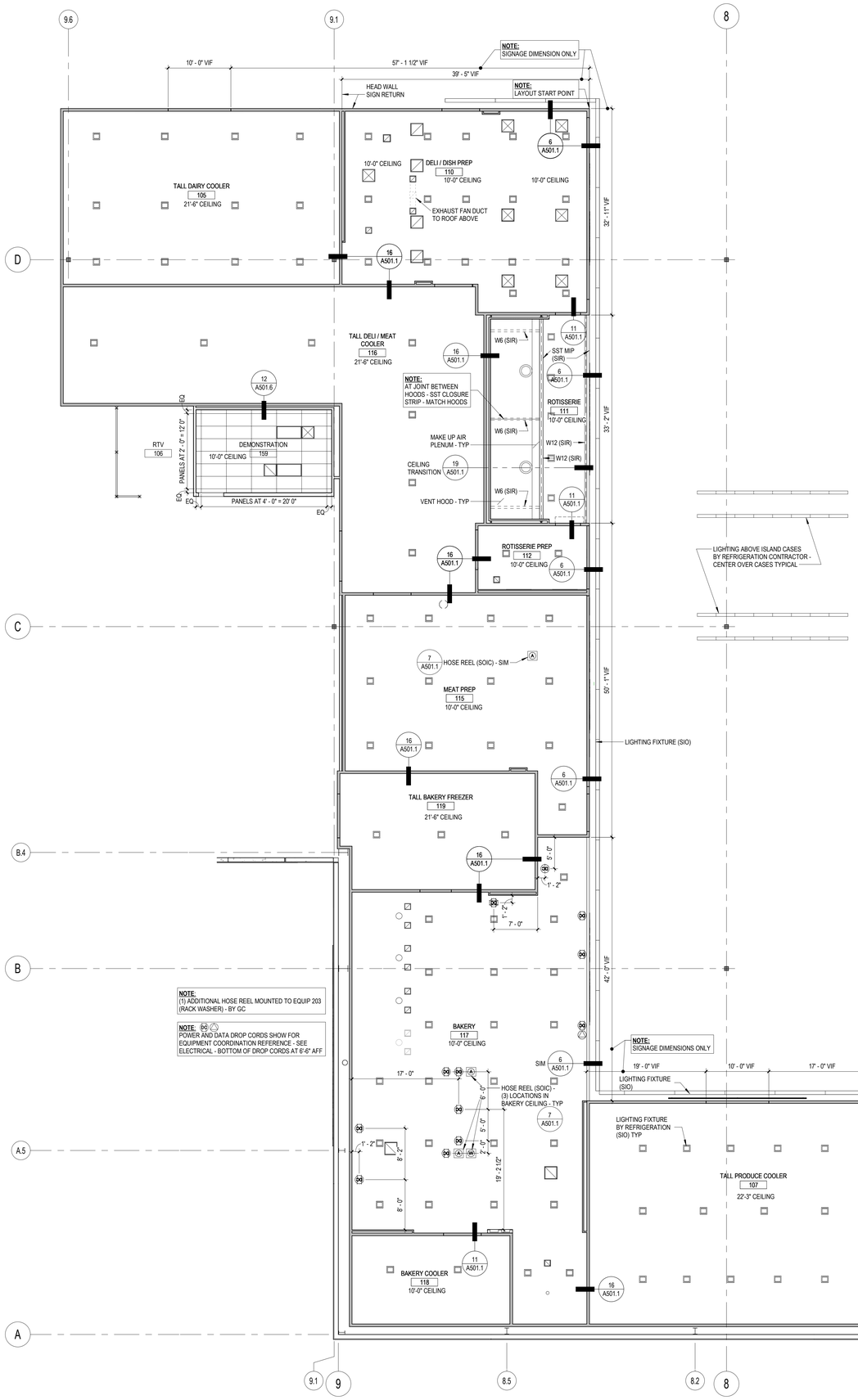
△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

REFLECTED CEILING PLAN

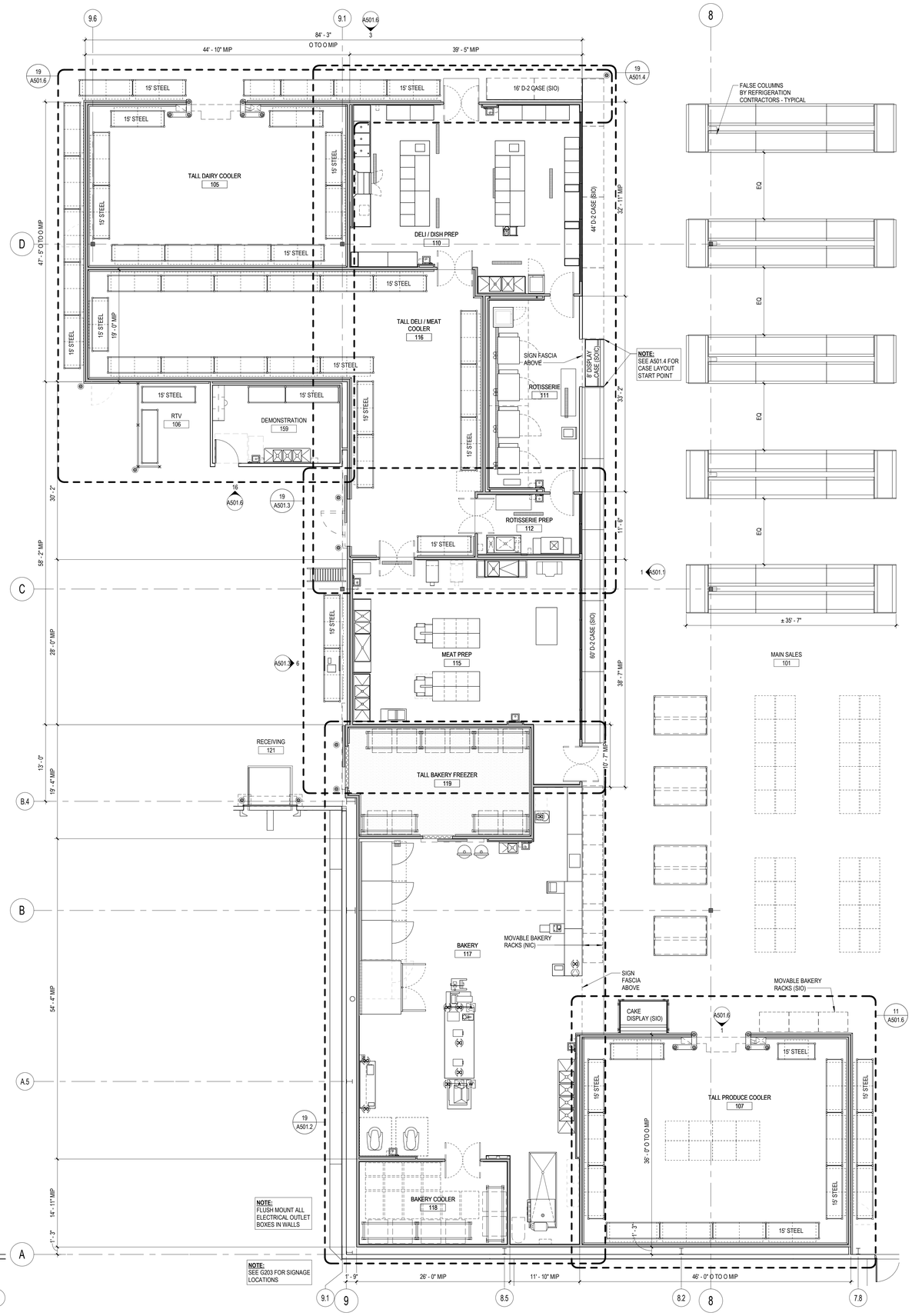
A401

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT RELIEVE
LESS THAN 5 MISSOURI
03/26/2026 4:03:46



16 FRESH LINE OVERALL REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0" 0125



18 FRESH LINE FLOOR PLAN

SCALE: 1/8" = 1'-0" 0225

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

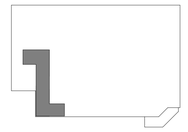
1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

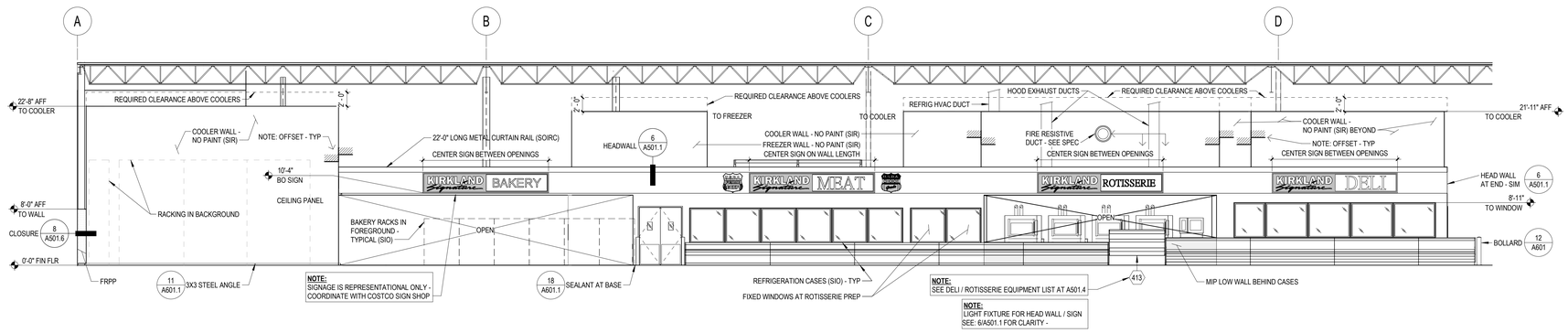
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

FRESHLINE PLANS

A501

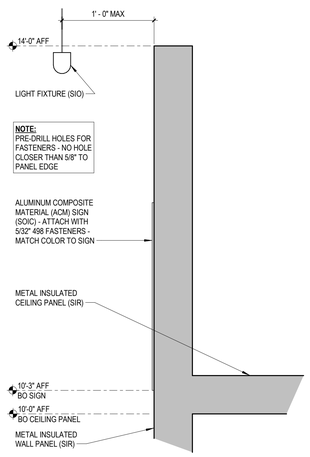
12/22/2025 9:41:07 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25555301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CITY OF LEE'S SUMMIT
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:46



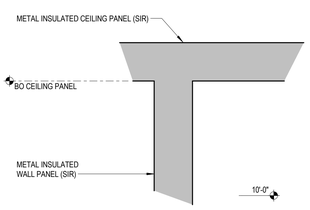
1 FRESH LINE FRONT WALL

SCALE: 1/8" = 1'-0" 0225



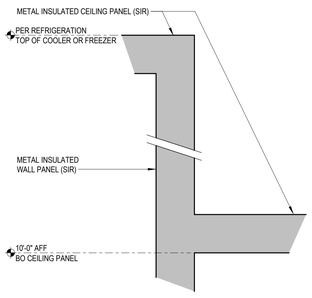
6 HEAD WALL (SHOWN AT SIGN)

SCALE: 1 1/2" = 1'-0" 0624



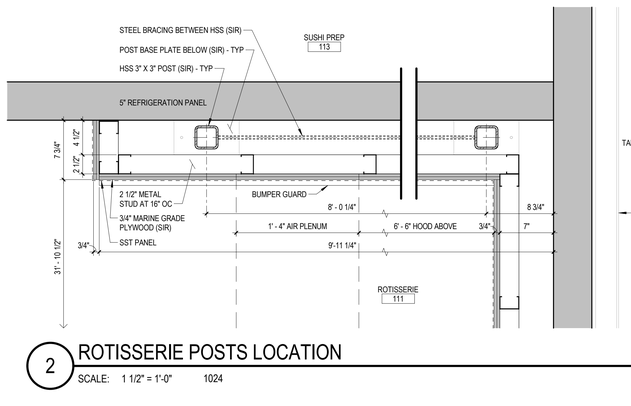
11 CEILING AT COOLER / FREEZER WALL

SCALE: 1 1/2" = 1'-0" 0624



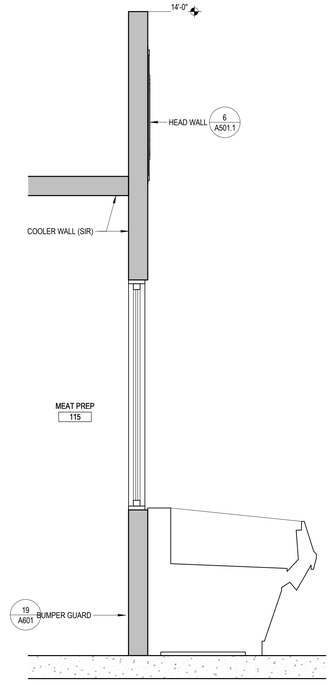
16 CEILING AT VARIOUS HEIGHTS

SCALE: 1 1/2" = 1'-0" 0624



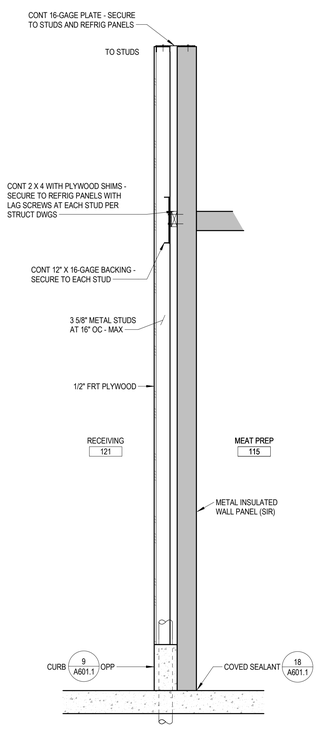
2 ROTISSERIE POSTS LOCATION

SCALE: 1 1/2" = 1'-0" 1024



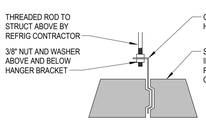
17 AT CASES

SCALE: 3/4" = 1'-0" 0623



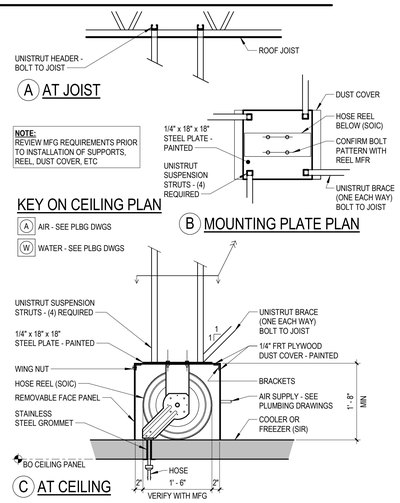
18 MEAT PREP BACK WALL

SCALE: 3/4" = 1'-0" 1024



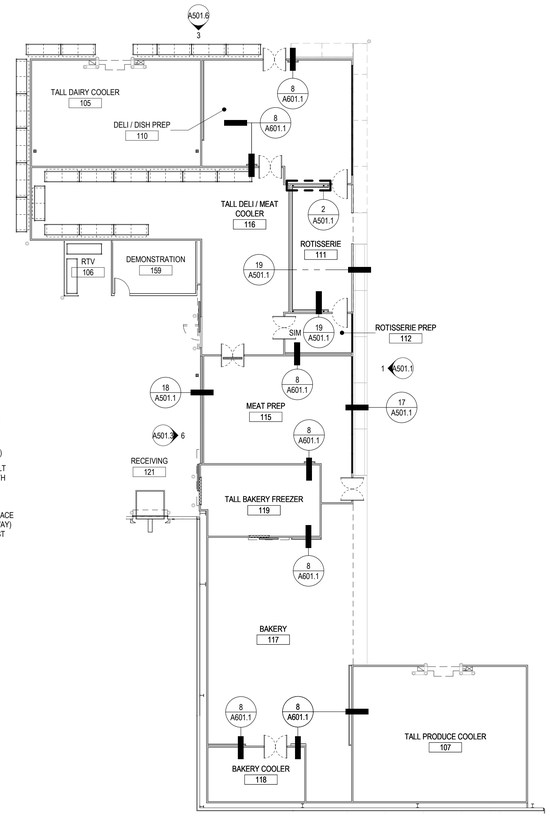
8 CEILING PANEL JOINT

SCALE: 1 1/2" = 1'-0" 0423



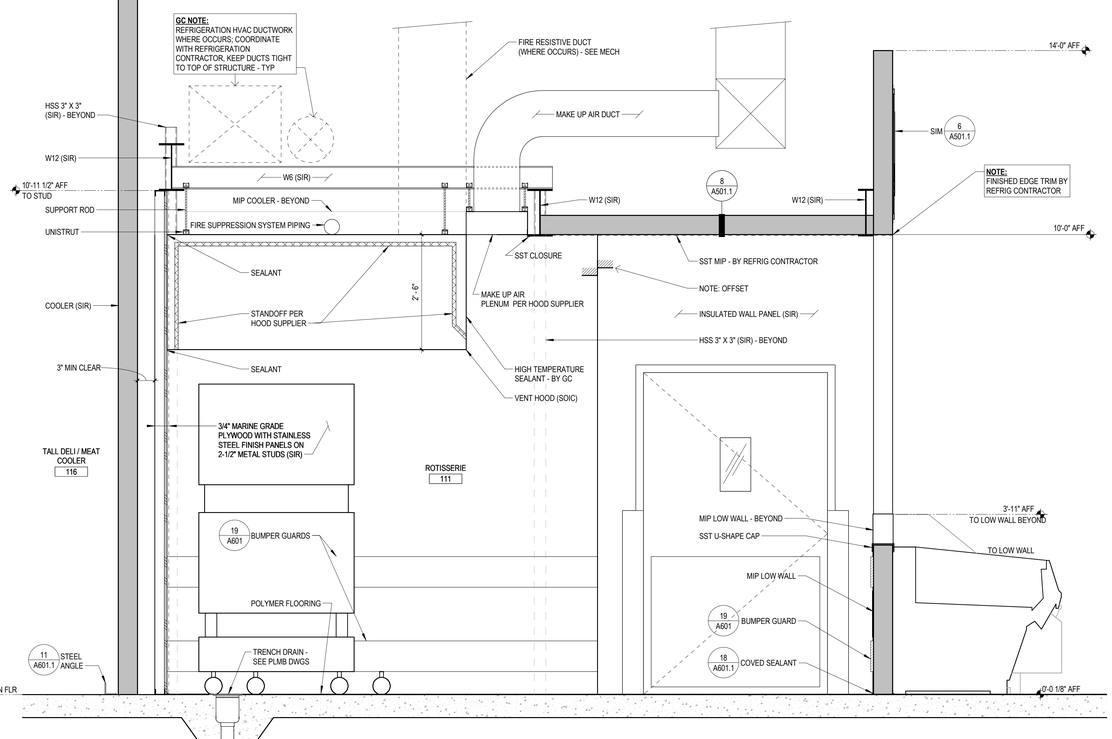
7 HOSE REEL MOUNTING

SCALE: 3/4" = 1'-0" 0624



10 FRESH LINE - KEY PLAN

SCALE: NOT TO SCALE



19 CEILING TRANSITION AND BACK WALL AT ROTISSERIE

SCALE: 3/4" = 1'-0" 1024

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

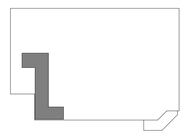
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

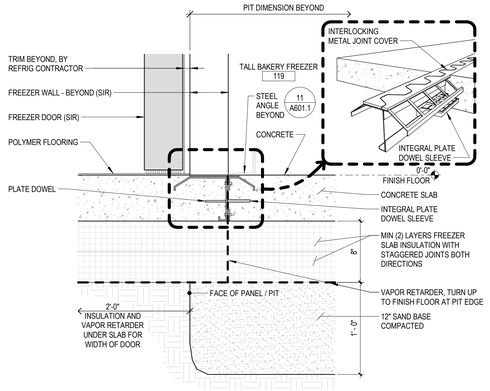
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

FRESHLINE ELEVATIONS, DETAILS AND SECTIONS

A501.1

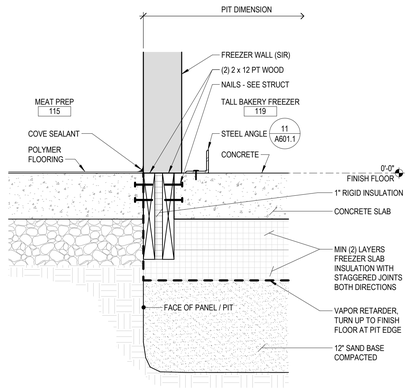
12/22/2025 9:41:11 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT RELIEVE
LESSEE PERMIT RESPSIBILITY
03/26/2026 4:03:46



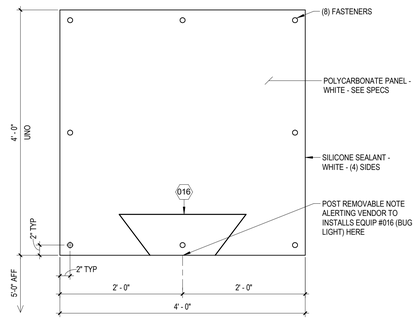
1 BAKERY FREEZER PIT AT DOOR

SCALE: 1 1/2" = 1'-0" 0224



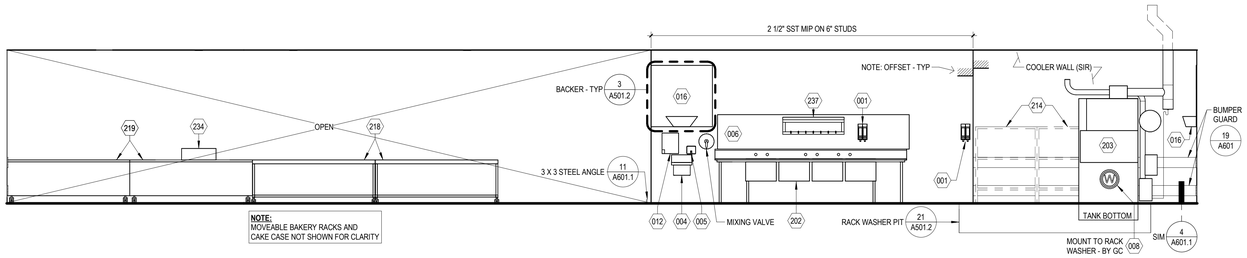
2 BAKERY FREEZER PIT

SCALE: 1 1/2" = 1'-0" 0624

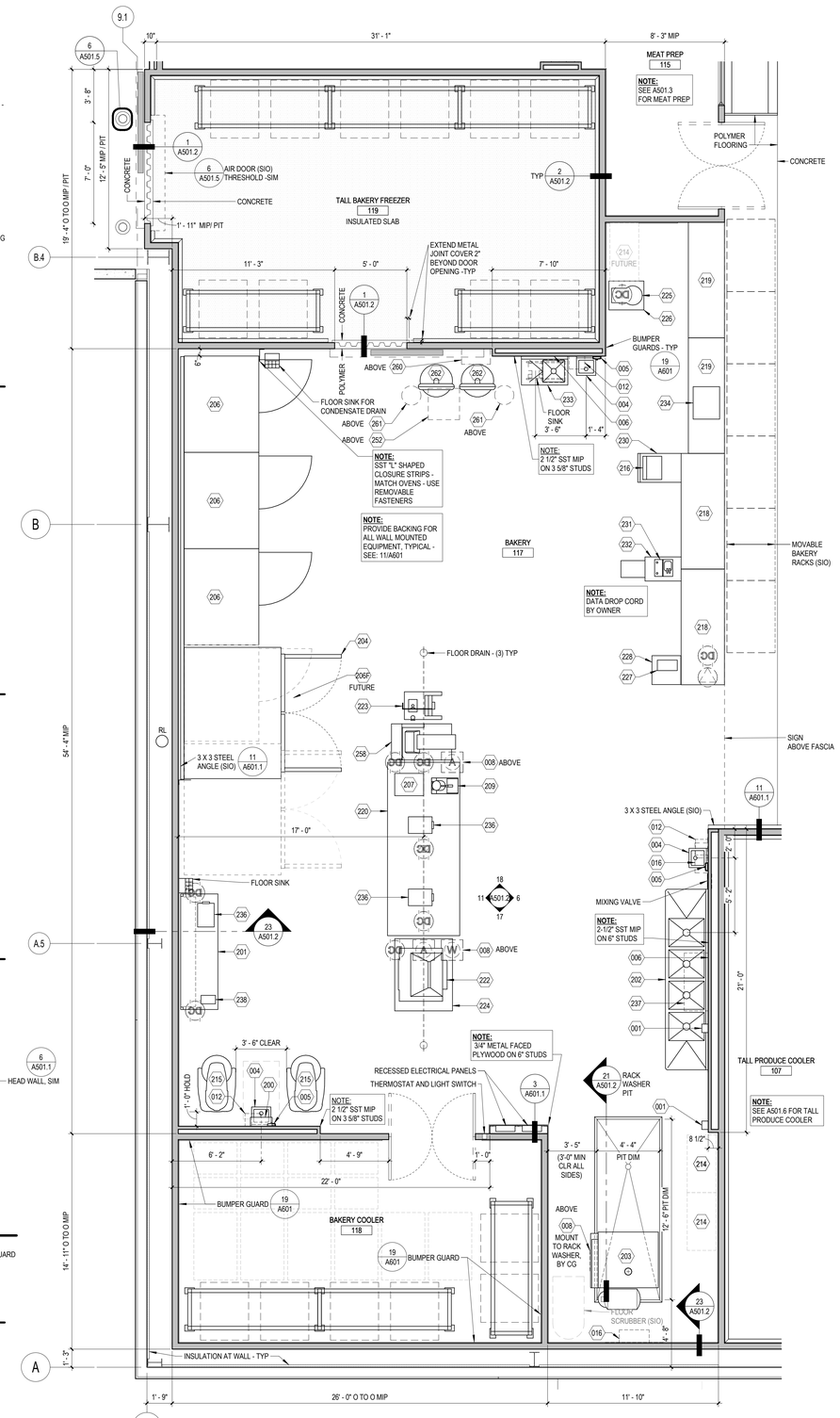


3 BACKER AT EQUIP #016

SCALE: 1" = 1'-0" 1224



NOTE:
MOVEABLE BAKERY RACKS AND CAKE CASE NOT SHOWN FOR CLARITY

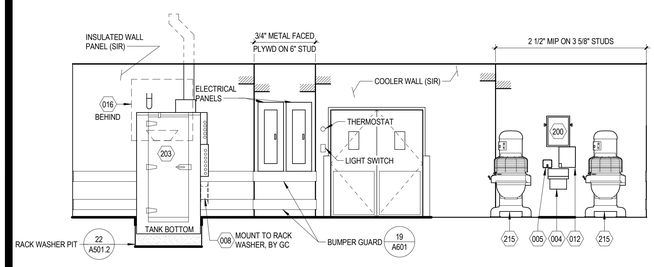


19 BAKERY EQUIPMENT PLAN

SCALE: 1/4" = 1'-0" 1224

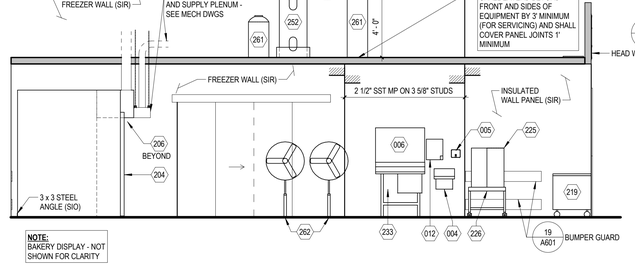
11 BACK WALL

SCALE: 1/4" = 1'-0" 0824



17 SIDE WALL

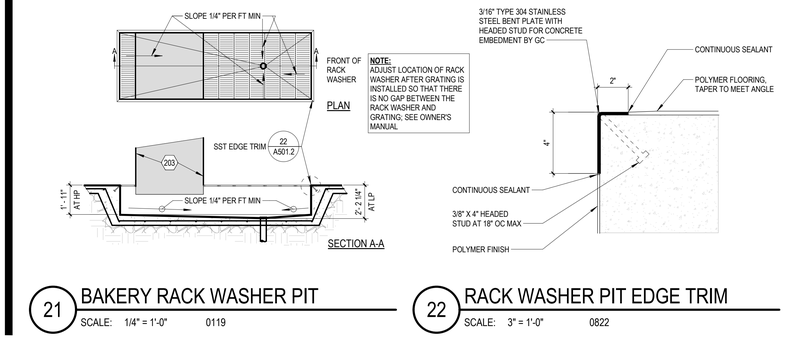
SCALE: 1/4" = 1'-0" 0824



NOTE:
BAKERY DISPLAY - NOT SHOWN FOR CLARITY

18 SIDE WALL

SCALE: 1/4" = 1'-0" 0824

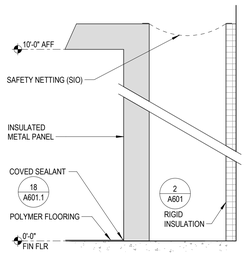


21 BAKERY RACK WASHER PIT

SCALE: 1/4" = 1'-0" 0119

22 RACK WASHER PIT EDGE TRIM

SCALE: 3" = 1'-0" 0822



INSULATED WALL PANEL TYPICAL AT BAKERY

SCALE: 1" = 1'-0" 1121

EQUIPMENT LEGEND - BAKERY

EQ NO	QTY	DESCRIPTION	SUPPLY - INSTALL	REMARKS
001	2	DETERGENT PACKAGES	SIV	
004	3	HAND WASH SINK	SOIC	SPLASH GUARDS W/ KNEE VALVE
005	3	SOAP DISPENSER	SIO	
006	2	WALL FLASHING (SIZED TO SINK)	SOIC	GC TO ADHERE TO WALL
008	4	HOSE REEL	SOIC	
012	3	PAPER TOWEL DISPENSER	SOIC	
016	2	INSECT LIGHT	SIV	MGR COORD INSTALL
200	1	WATER METER	SOIC	
201	1	SPICE RACK AND SST MIXING TABLE	SIO	
202	1	4 COMPARTMENT SINK	SOIC	WALL FLASHING (SIZED TO SINK)
203	1	RACK WASHER	SOIC	START-UP DONE BY VENDOR
204	1	PROOF BOX	SIV	
206	3	RACK OVENS	SIV	
206F	1	RACK OVENS	SIV	FUTURE

EQUIPMENT LEGEND - BAKERY

EQ NO	QTY	DESCRIPTION	SUPPLY - INSTALL	REMARKS
207	1	PIE STAMP MACHINE	SIO	
209	1	FOOD PROCESSOR	SIO	
214	2	3 SHELF ALUMINUM COOLER RACKS	SIO	(1) FUTURE
215	2	140 QT MIXER	SOIC	BOLTS SUPPLIED BY VENDOR
216	1	BAKERY SCALES	SIV	
218	2	WRAP TABLES	SIO	
219	2	CAKE DECORATING TABLE	SIO	
220	1	MAPLETEX TABLE 12' X 5'	SIO	
222	1	MUFFIN DEPOSITOR - 5 ACROSS	SOIC	
223	1	BATTER DEPOSITOR	SIO	
224	1	MUFFIN DEPOSITOR TABLE	SIO	
225	1	20 QT MIXER	SIV	
226	1	20 QT MIXER TABLE	SIO	
227	1	LABEL PRINTER	SIV	

EQUIPMENT LEGEND - BAKERY

EQ NO	QTY	DESCRIPTION	SUPPLY - INSTALL	REMARKS
228	1	CABINET BASE TABLE	SIO	
230	1	TABLE	SIO	
231	1	GLAZE SPRAYER	SIO	
232	1	GLAZE SPRAYER TABLE	SIO	
233	1	1 COMPARTMENT SINK	SOIC	
234	1	CAKE SLICER	SOIC	
236	3	DIGITAL SCALE	SIO	
237	1	POT RACK	SOIC	
238	1	CAN OPENER	SOIC	
252	1	WATER CHILLER HEAT EXCHANGER	SOIC	ABOVE BAKERY LID
258	1	MOULDER	SIO	
260	1	REVERSE OSMOSIS SYSTEM	SIC	ABOVE BAKERY LID; SEE PLBG
261	2	REVERSE OSMOSIS STORAGE TANK	SIC	ABOVE BAKERY LID; SEE PLBG
262	2	FAN WITH BASE	SIO	MOBILE

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

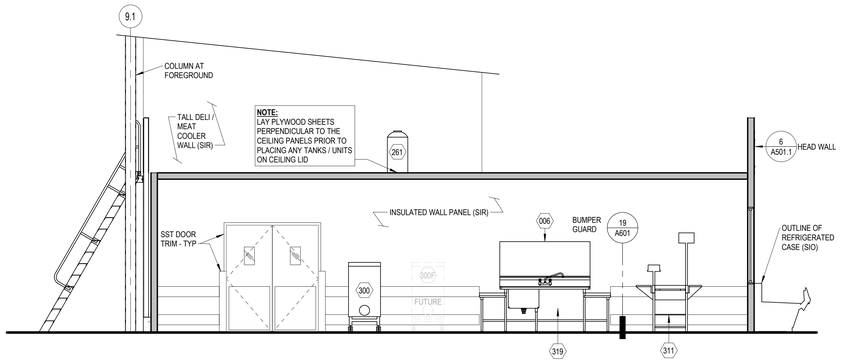
△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

BAKERY PLANS, ELEVATIONS AND DETAILS

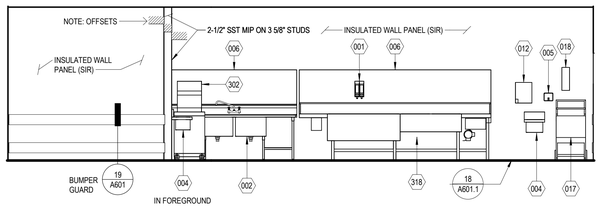
A501.2

12/22/2025 9:41:15 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt



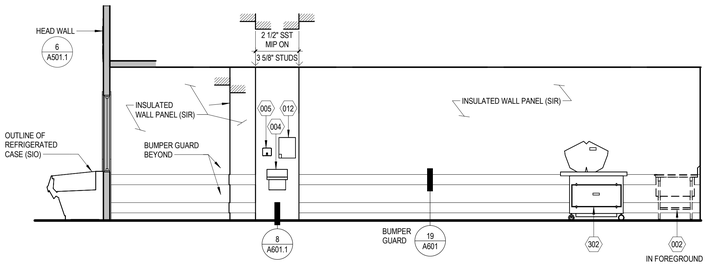
1 MEAT PREP SIDE WALL

SCALE: 1/4" = 1'-0" 1224



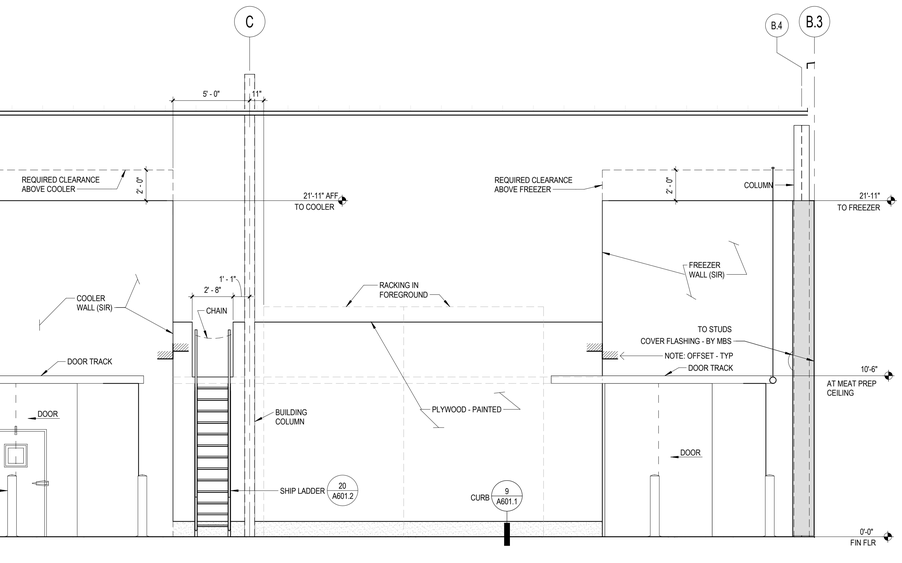
3 MEAT PREP BACK WALL

SCALE: 1/4" = 1'-0" 0222



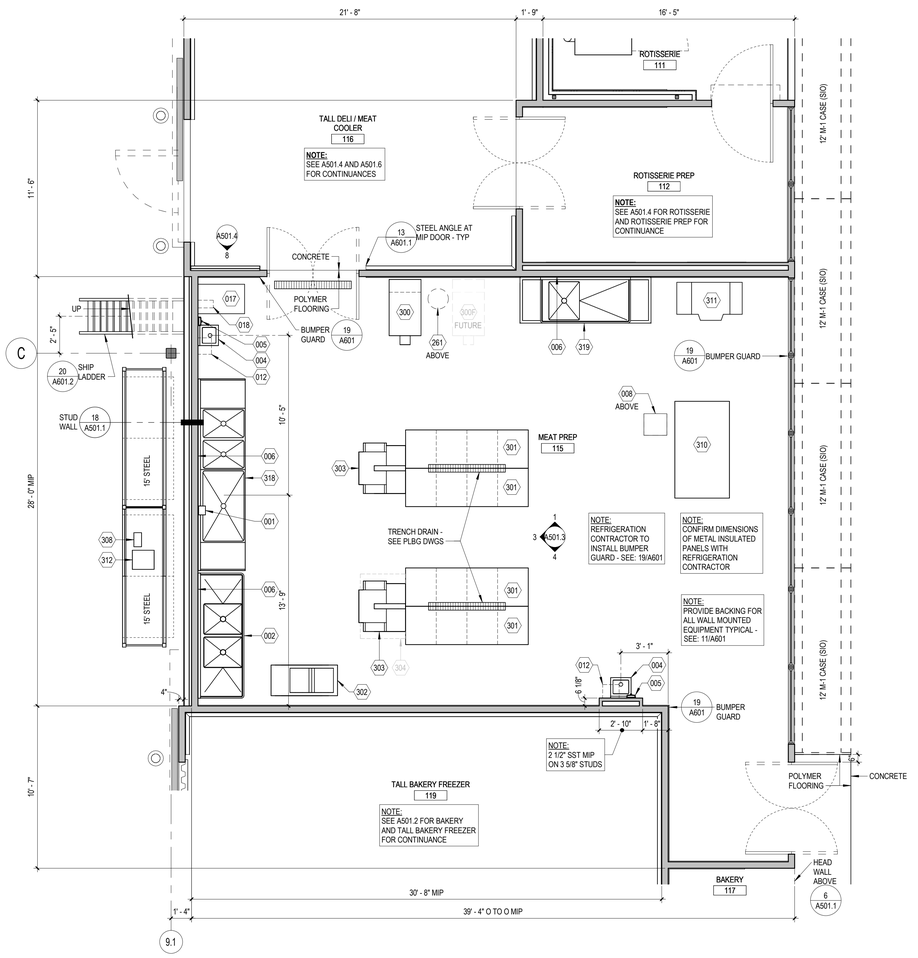
4 MEAT PREP SIDE WALL

SCALE: 1/4" = 1'-0" 1224



6 MEAT PREP BACK WALL (LOOKING FROM RECEIVING)

SCALE: 1/4" = 1'-0" 1024



19 MEAT PREP EQUIPMENT PLAN

SCALE: 1/4" = 1'-0" 1224

EQUIPMENT LEGEND - MEAT PREP

EQ NO	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
001	1	DETERGENT PACKAGES	SIV	
002	1	2 COMPARTMENT SINK	SOIC	WALL FLASHING (SIZED TO SINK)
004	2	HAND WASH SINK	SOIC	
005	2	SOAP DISPENSER	SIO	
006	3	WALL FLASHING (SIZED TO SINK)	SOIC	GC TO ADHERE TO WALL
008	1	HOSE REEL	SOIC	
012	2	PAPER TOWEL DISPENSER	SOIC	
017	1	FOAM CLEANING SYSTEM	SIO	INCLUDES CART
018	1	FOAM HOSE REEL	SIO	
261	1	REVERSE OSMOSIS STORAGE TANK	SIC	ABOVE MEAT PREP LID, SEE MECH
300	1	MIXER / GRINDER	SIV	
300F	1	MIXER / GRINDER	SIV	FUTURE
301	4	CUTTING TABLE 96" X 36"	SIO	
302	1	MEAT TENDERIZER	SOIC	
303	2	MEAT SAW	SIV	
304	1	MEAT SLICER	SOIC	OPTIONAL
308	1	FAT TESTER	SIO	LOCATE IN STEEL
310	1	WRAP STATION - PRINTER, LABELER	SIV	
311	1	HAND WRAP	SIV	
312	1	DELI SCALES AND PRINTER	SIV	LOCATE IN STEEL
318	1	150" POWER WASH SINK	SOIC	WALL FLASHING (SIZED TO SINK)
319	1	SEAFOOD SINK	SOIC	WALL FLASHING (SIZED TO SINK)

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW COSTCO PROJECT SERVICES LEE'S SUMMIT, MISSOURI 03/26/2026 4:03:46

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

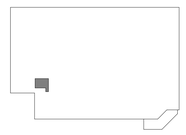
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

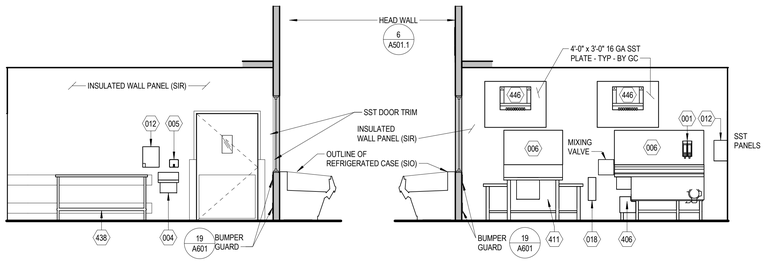
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

MEAT PREP PLAN AND ELEVATIONS

A501.3

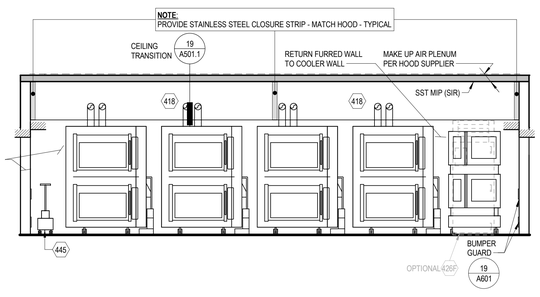
12/22/2025 9:41:17 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF THE PROJECT SPECIFICATIONS
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:46



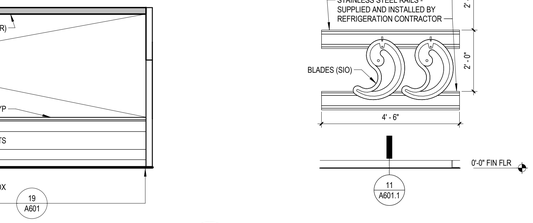
1 ROTISSERIE PREP SIDE WALL

SCALE: 1/4" = 1'-0" 1024



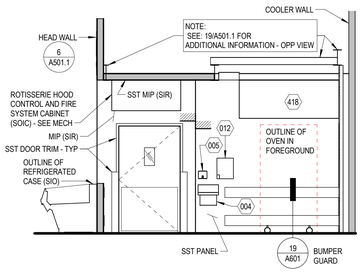
2 ROTISSERIE PREP SIDE WALL

SCALE: 1/4" = 1'-0" 1024



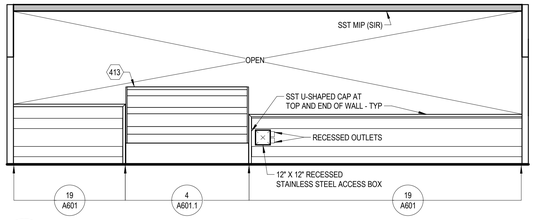
3 ROTISSERIE BACK WALL

SCALE: 1/4" = 1'-0" 1024



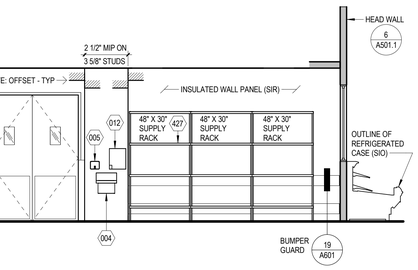
6 ROTISSERIE SIDE WALL

SCALE: 1/4" = 1'-0" 1224



7 ROTISSERIE FRONT WALL

SCALE: 1/4" = 1'-0" 1024

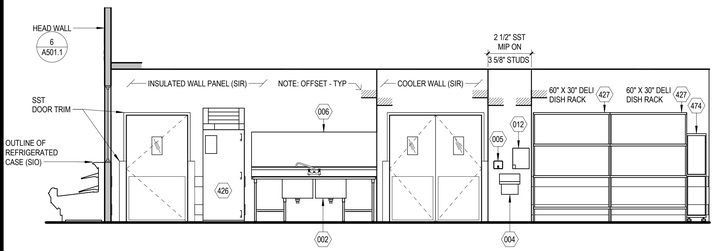


8 MEAT COOLER SCABBARD BARS

SCALE: 1/2" = 1'-0" 0125

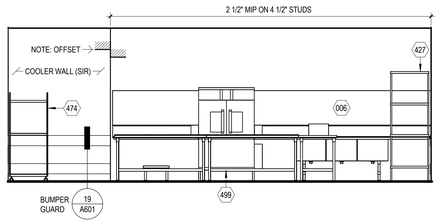
11 SUSHI PREP FRONT WALL

SCALE: 1/4" = 1'-0" 0125



13 SUSHI PREP AND DELI / DISH PREP ENTRY WALL

SCALE: 1/4" = 1'-0" 0125

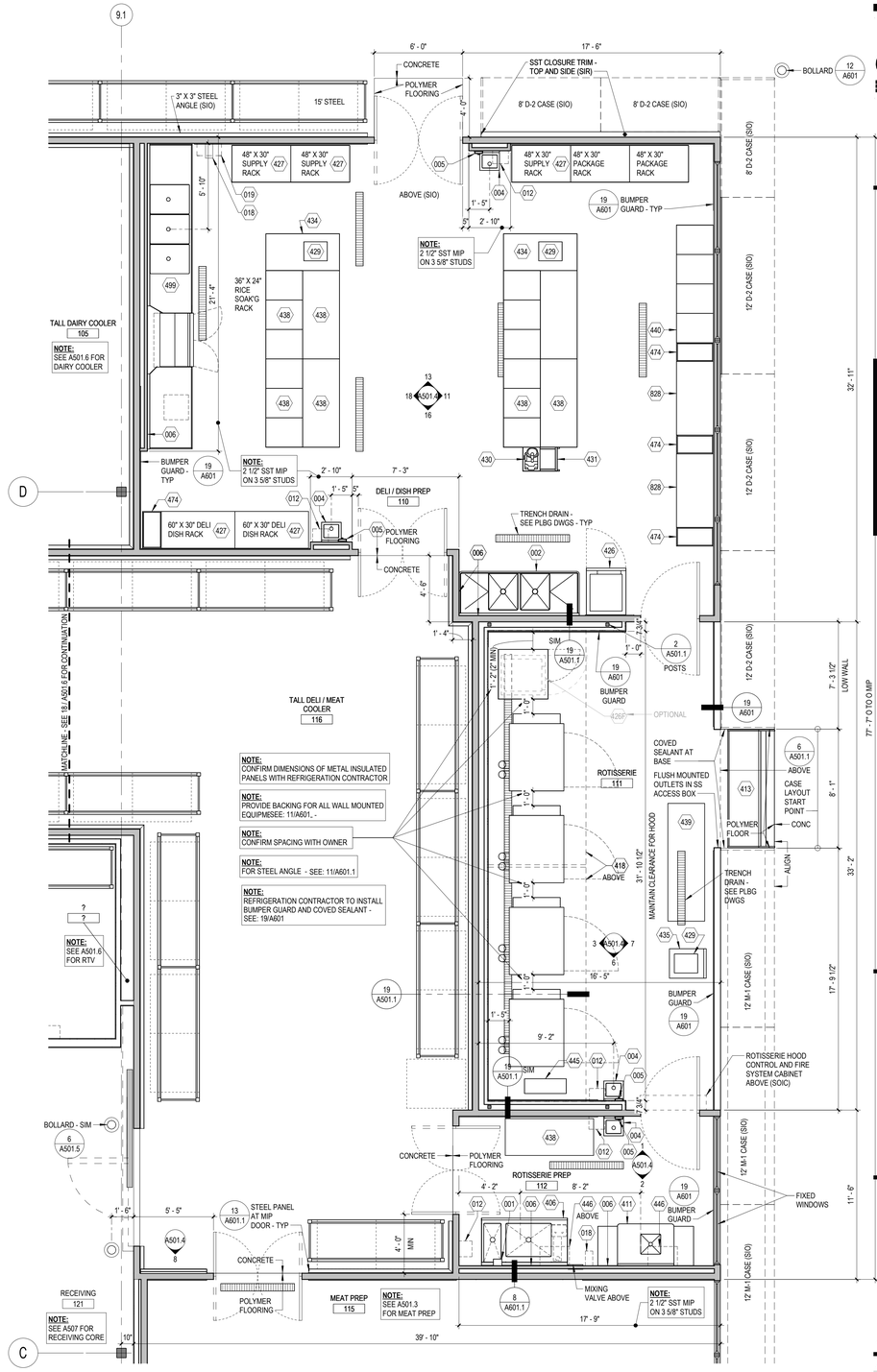


16 DELI / DISH PREP AND SUSHI PREP SIDE WALL

SCALE: 1/4" = 1'-0" 0125

18 DELI / DISH PREP BACK WALL

SCALE: 1/4" = 1'-0" 0125



19 ROTISSERIE, DELI / DISH PREP, SUSHI PREP AND RICE ROOM EQUIPMENT PLAN

SCALE: 1/4" = 1'-0" 0725

EQUIPMENT LEGEND - ROTISSERIE / DELI / SUSHI / RICE

EQ NO	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
	4	ROTISSERIE OVENS		
001	1	DETERGENT PACKAGES	SIV	
002	1	2 COMPARTMENT SINK	SOIC	WALL FLASHING (SIZED TO SINK)
004	4	HAND WASH SINK	SOIC	
005	4	SOAP DISPENSER	SIO	
006	5	WALL FLASHING (SIZED TO SINK)	SOIC	
012	5	PAPER TOWEL DISPENSER	SOIC	
018	2	FOAM HOSE REEL	SIO	
019	1	WALL MOUNTED POWER FOAMER	SIO	
406	1	SKEWER WASHER	SOIC	
411	1	PREP TABLE / SINK	SOIC	WALL FLASHING (SIZED TO SINK)
413	1	8' CHICKEN MERCHANDISER	SOIC	
415	1	COMBI OVEN	SOIC	
418	1	VENT HOODS	SOIC	FIRE SUPPRESSION SYSTEM BY GC - SEE MECH
426	1	BLAST CHILLER	SOIC	
426F	1	BLAST CHILLER	SOIC	OPTIONAL LOCATION
427	7	SHELVING PACKAGE SET	SIO	
429	3	SCALE / PRINTERS	SIV	
430	1	FOOD PROCESSOR (CHICKEN CHOPPER)	SIO	

EQUIPMENT LEGEND - ROTISSERIE / DELI / SUSHI / RICE

EQ NO	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
431	1	CHICKEN CHOPPER CART	SIO	
434	2	SCALE TABLE WITH UNDERSHELF 60" X 30"	SOIC	
435	1	ENCLOSED BASE PRINTER TABLES - 2'	SIO	
438	9	WORK TABLE 72" X 30"	SIO	POLY BOARD PER PLAN
439	1	LANDING TABLE WITH CASTERS 96" X 30"	SIO	
440	1	WORK TABLE 96" X 30"	SIO	POLY BOARD PER PLAN
445	1	GREASE TRANSFER CART	SIO	
446	2	SKEWER HANGING PACKAGE	SOIC	
474	4	15" X 30" PLATTER CART	SIO	
499	1	WAREWASH LINE WITH 3-COMPARTMENT SINK	SOIC	WALL FLASHING (SIZED TO SINK)
828	2	WORK TABLE 60" X 30"	SOIC	

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

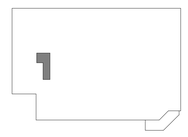
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

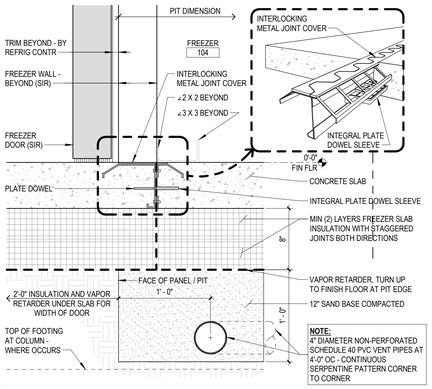
△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

ROTISSERIE, DELI, AND ELEVATIONS

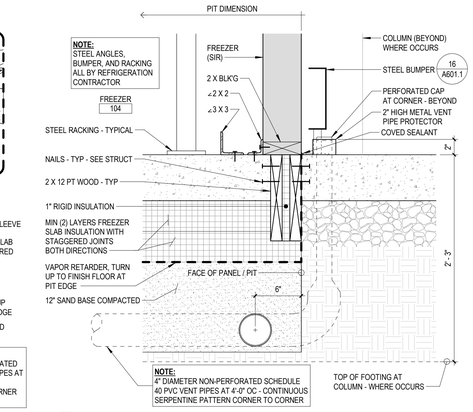
A501.4

12/22/2025 9:41:21 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt



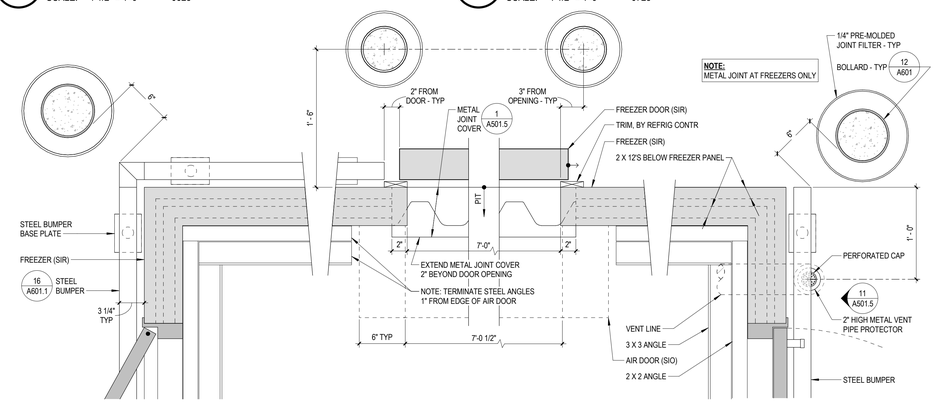
1 POS FREEZER PIT AT DOOR

SCALE: 1 1/2" = 1'-0" 0623



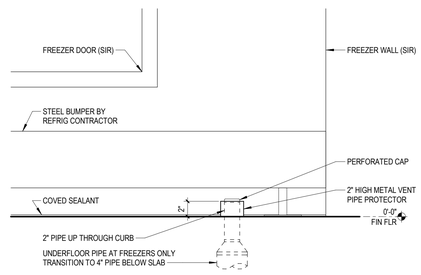
2 POS FREEZER PIT

SCALE: 1 1/2" = 1'-0" 0723



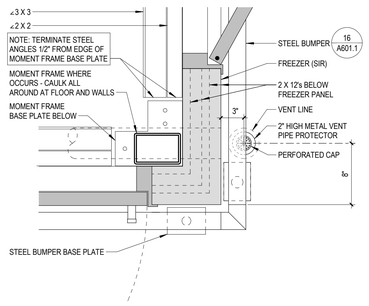
6 BOLLARDS AT FREEZER

SCALE: 1 1/2" = 1'-0" 0423



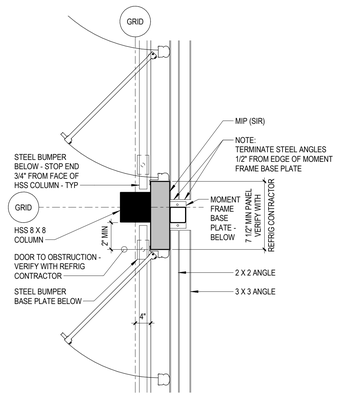
11 FREEZER VENT ELEVATION

SCALE: 1 1/2" = 1'-0" 0623



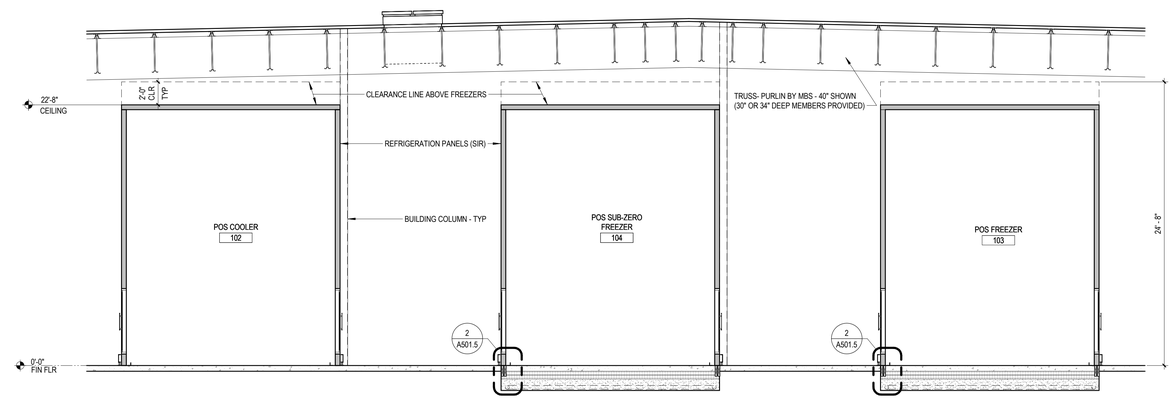
12 FREEZER VENT PIPE

SCALE: 1 1/2" = 1'-0" 0623



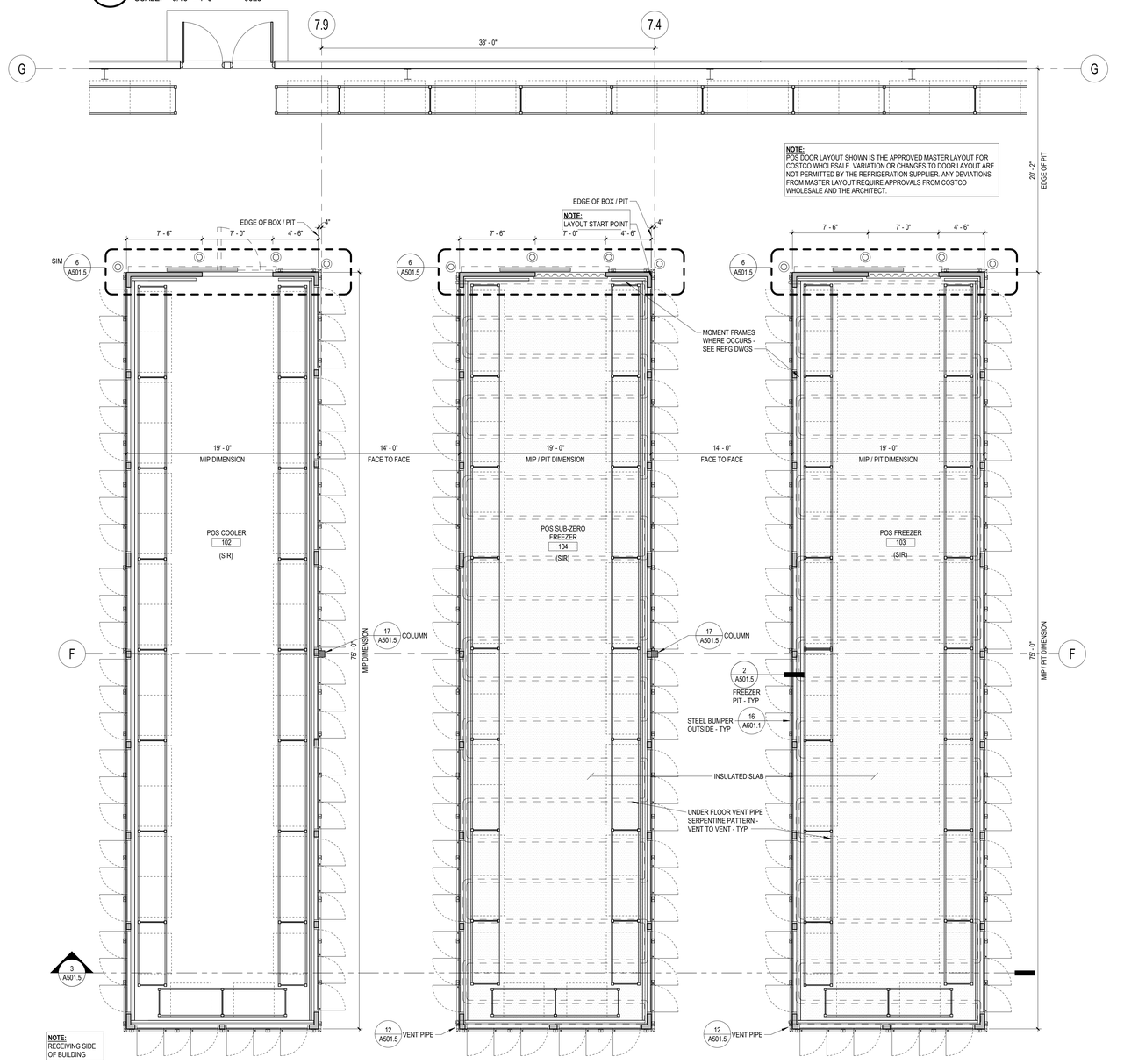
17 COLUMN AT POS FREEZER / COOLER

SCALE: 3/4" = 1'-0" 0623



3 POS COOLER AND FREEZERS

SCALE: 3/16" = 1'-0" 0623



18 POS FREEZERS AND COOLER PLAN

SCALE: 3/16" = 1'-0" 0724

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COSTCO PROJECT SERVICES
LEES SUMMIT, MISSOURI
03/26/2026 4:03:46

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

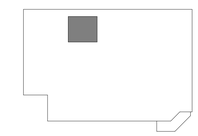
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

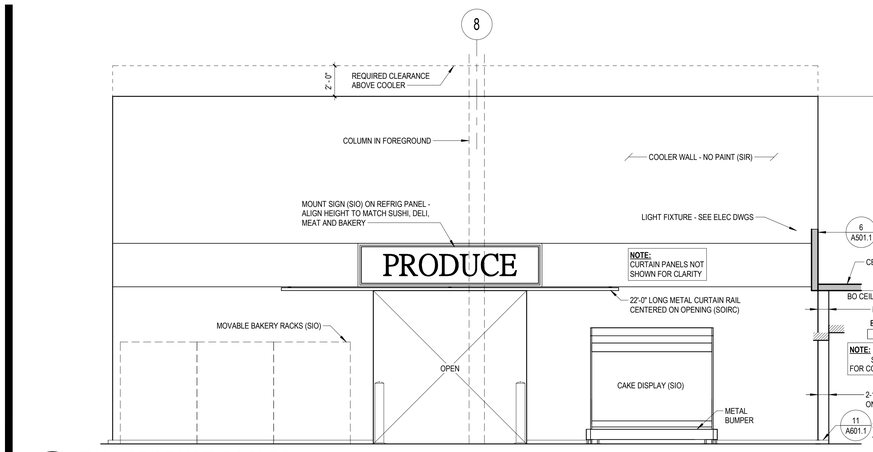
25-5563-01
PM: WILLIE MAK
DRAWN BY:Author
12/22/25

POS COOLER FREEZER PLANS AND DETAILS

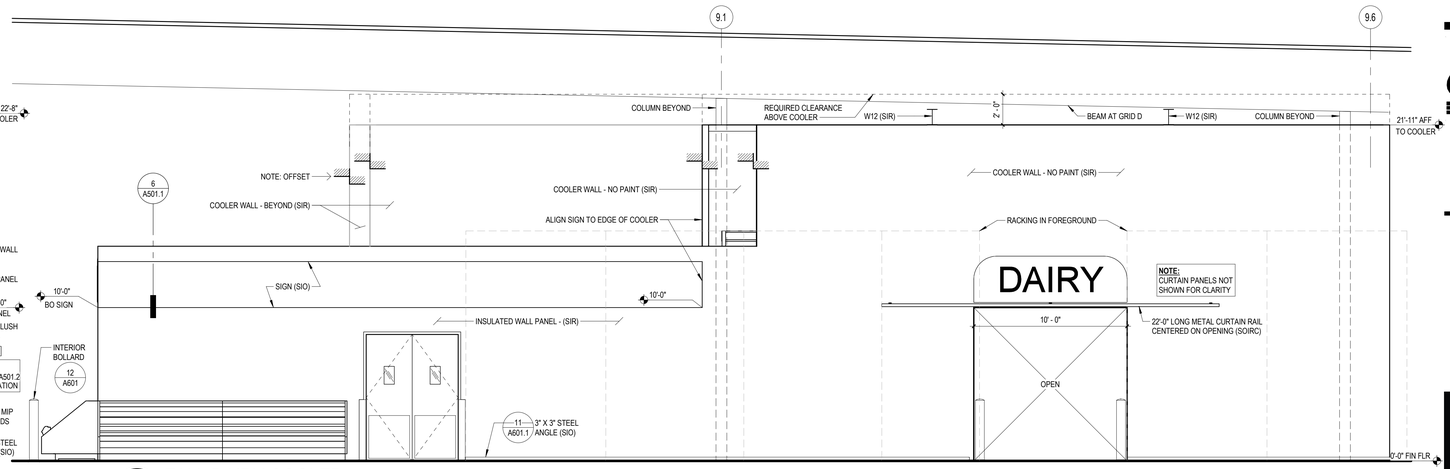
A501.5

12/22/2025 9:41:23 AM Autodesk Docs://Lee's Summit,MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

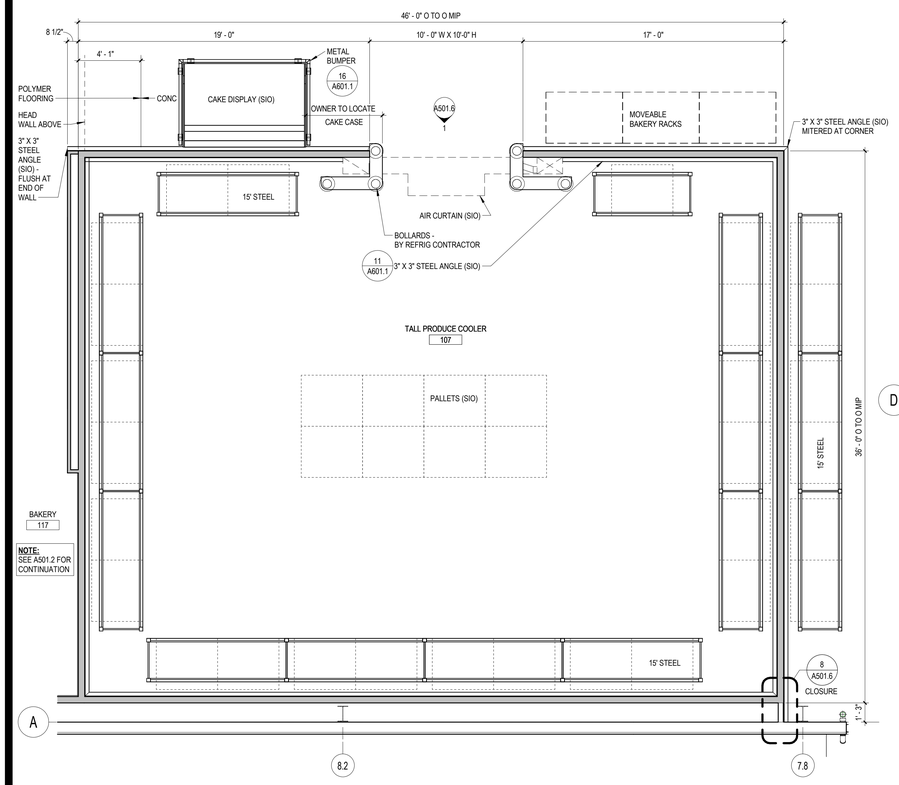
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COSTCO WHOLESALE
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:47



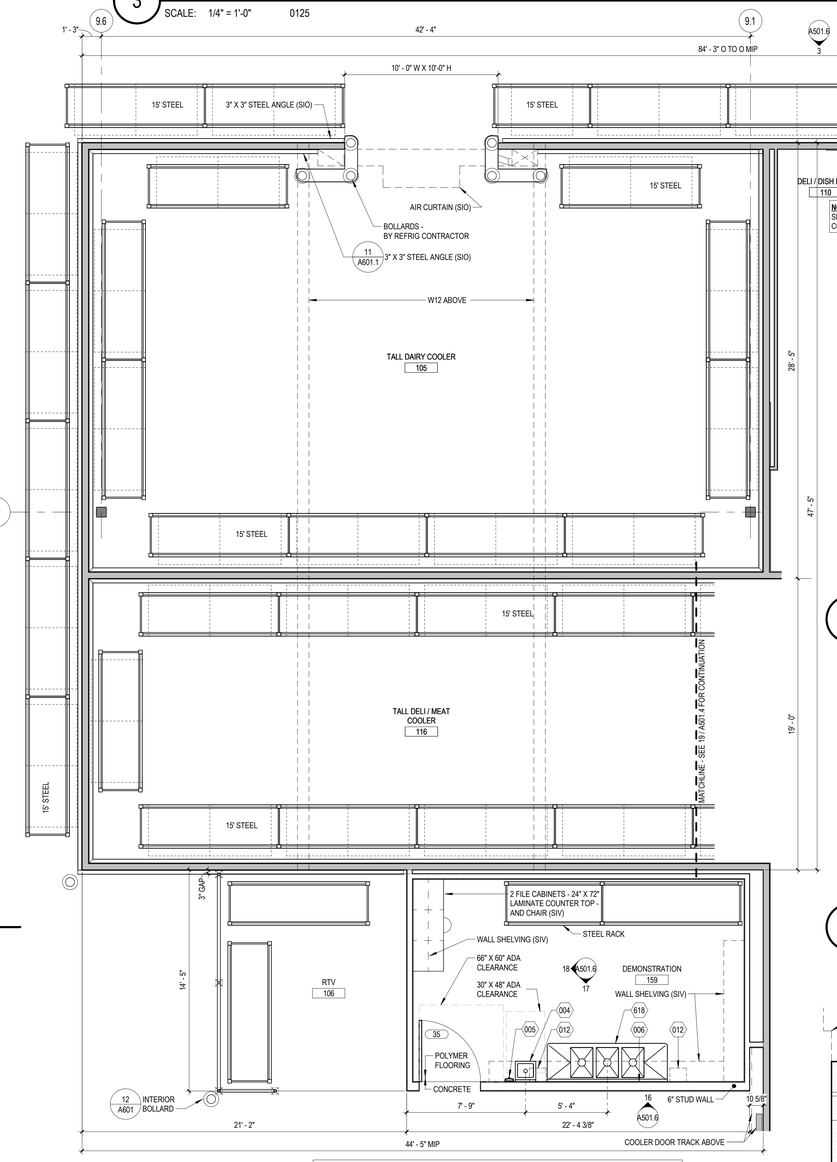
1 TALL PRODUCE COOLER
SCALE: 1/4" = 1'-0" 1024

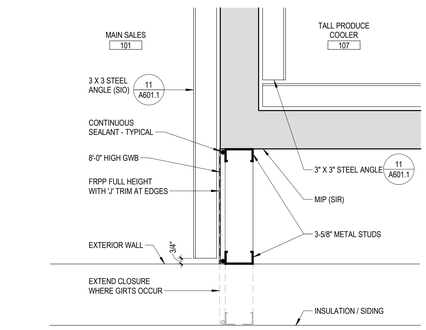


3 TALL DAIRY COOLER
SCALE: 1/4" = 1'-0" 0125

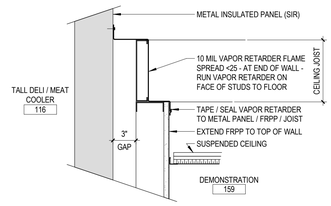


11 TALL PRODUCE COOLER ENLARGED PLAN
SCALE: 1/4" = 1'-0" 0723

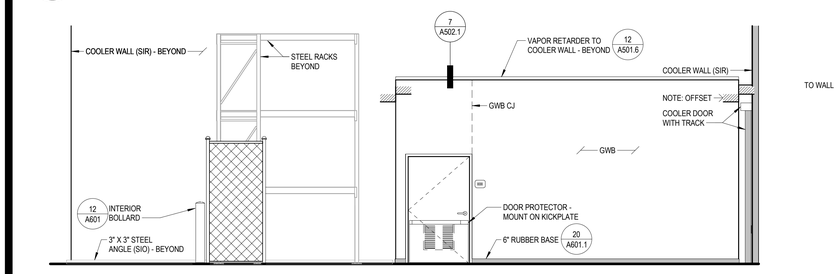




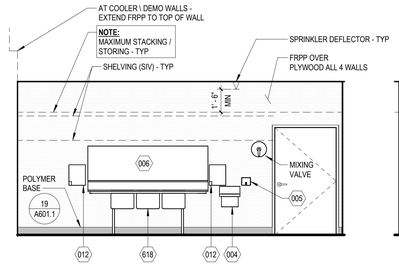
8 CLOSURE DETAIL
SCALE: 1 1/2" = 1'-0" 0623



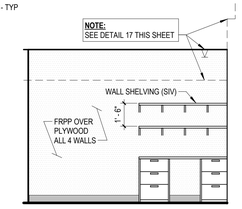
12 COOLER/ DEMONSTRATION TOP OF WALL
SCALE: 1 1/2" = 1'-0" 0818 (PERPENDICULAR TO JOIST)



16 DEMONSTRATION AND RTV FRONT VIEW FROM RECEIVING
SCALE: 1/4" = 1'-0" 1024



17 DEMONSTRATION FRONT WALL
SCALE: 1/4" = 1'-0" 1024



18 DEMONSTRATION SIDE WALL
SCALE: 1/4" = 1'-0" 1024

19 TALL DAIRY AND DELI / MEAT COOLERS, RTV AND DEMONSTRATION ENLARGED PLAN
SCALE: 1/4" = 1'-0" 0125

EQUIPMENT LEGEND - DEMONSTRATION

EQ NO	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
004	1	HAND WASH SINK	SOIC	
005	1	SOAP DISPENSER	SIO	
006	1	WALL FLASHING (SIZED TO SINK)	SOIC	GC TO ADHERE TO WALL
012	2	PAPER TOWEL DISPENSER	SOIC	
618	1	3 COMPARTMENT SINK	SOIC	DRAIN BOARDS BOTH SIDES

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

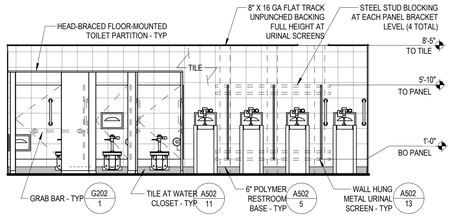
25-5563-01
PM: WILLIE MAK
DRAWN BY:Author
12/22/25

PRODUCE, DAIRY AND MEAT COOLERS, AND DEMONSTRATION

A501.6

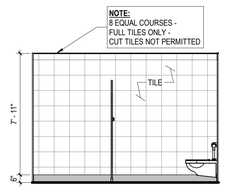
12/22/2025 9:41:26 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
GOVERNING AGENCIES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:47



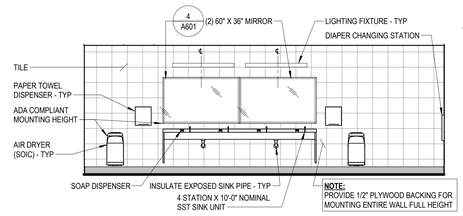
1 MEN RESTROOM

SCALE: 1/4" = 1'-0" 0724



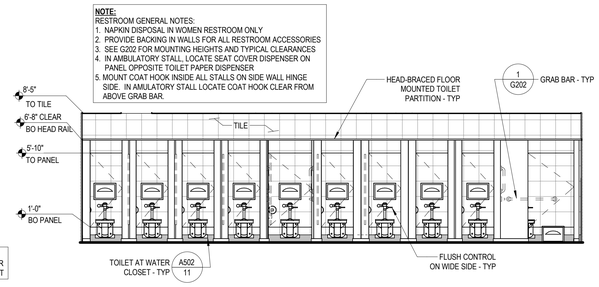
2 MEN END WALL

SCALE: 1/4" = 1'-0" 1124 (MEN SIM-OPP HAND)



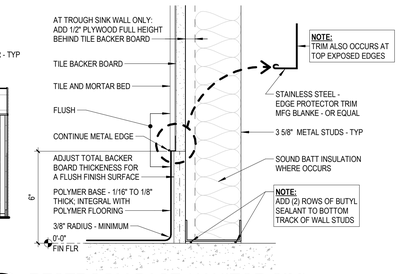
3 MEN SINK WALL

SCALE: 1/4" = 1'-0" 0922



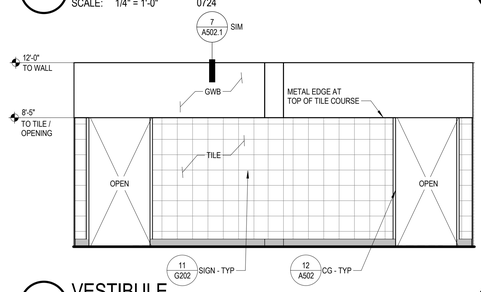
4 WOMEN RESTROOM

SCALE: 1/4" = 1'-0" 0724



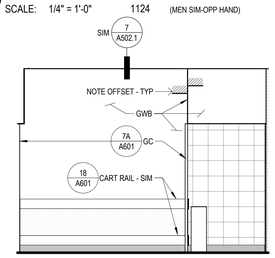
5 RESTROOM BASE (JANITOR SIM)

SCALE: 3" = 1'-0" 0725



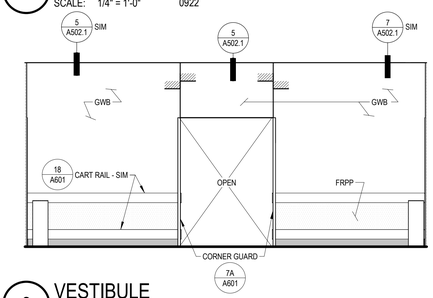
6 VESTIBULE

SCALE: 1/4" = 1'-0" 0822



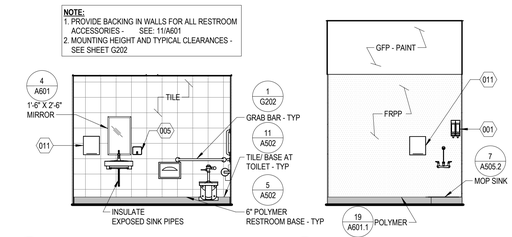
7 VESTIBULE END WALL

SCALE: 1/4" = 1'-0" 0822



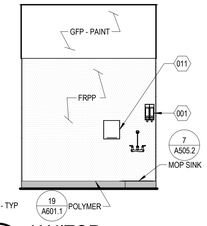
8 VESTIBULE

SCALE: 1/4" = 1'-0" 0822



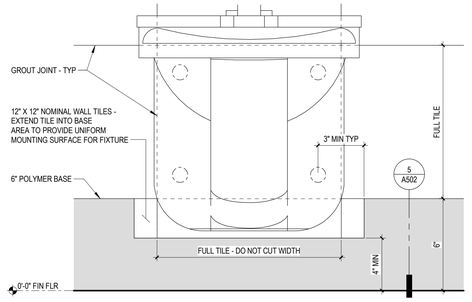
9 FAMILY RESTROOM

SCALE: 1/4" = 1'-0" 0623



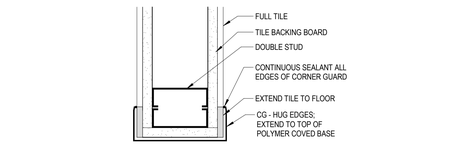
10 JANITOR

SCALE: 1/4" = 1'-0" 0124



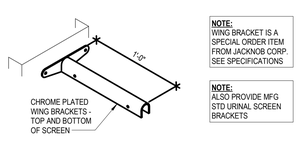
11 TILE/ BASE AT WATER CLOSET

SCALE: 3" = 1'-0" 0219



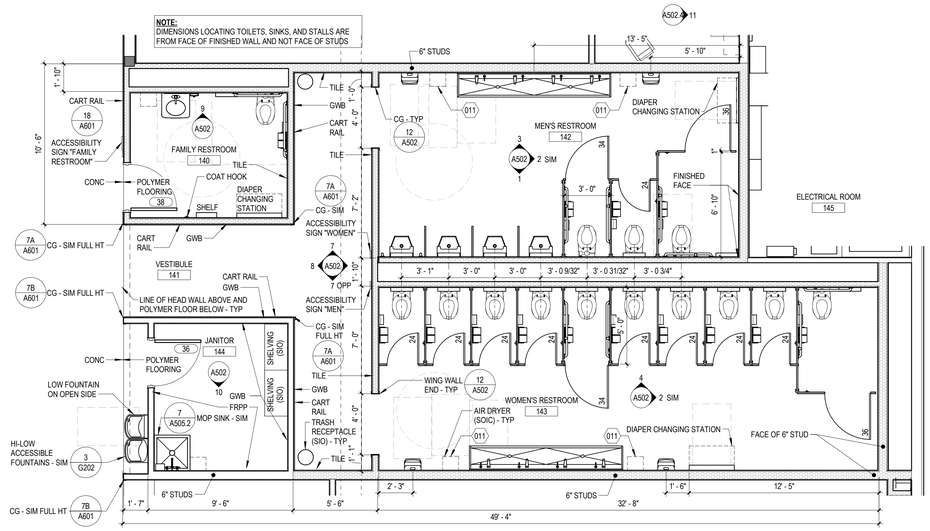
12 WING WALL END AT TILE WALL

SCALE: 3" = 1'-0" 1122



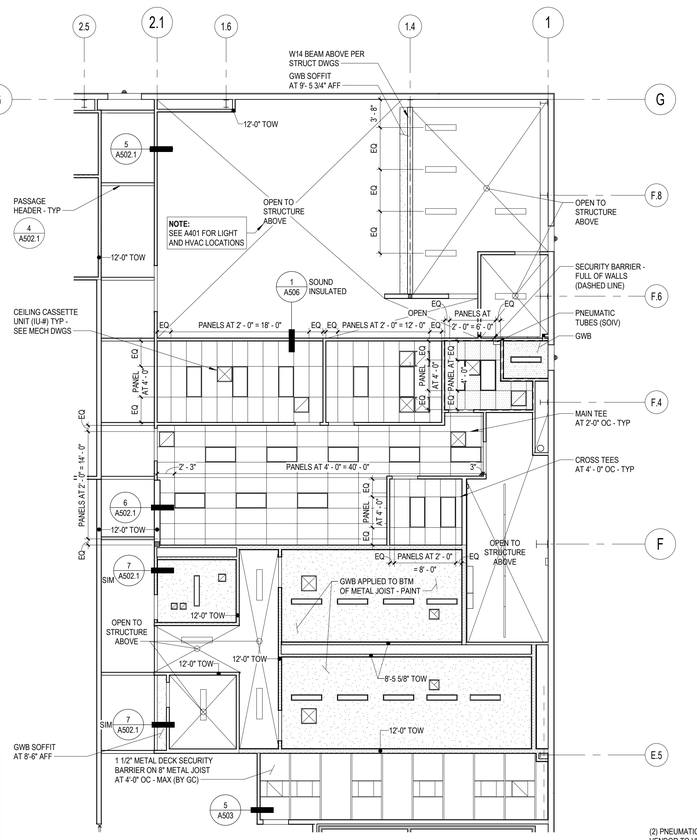
13 URINAL SCREEN BRACKET

SCALE: 3" = 1'-0" 0119



16 PARTIAL ENLARGED FLOOR PLAN

SCALE: 1/4" = 1'-0" 1024



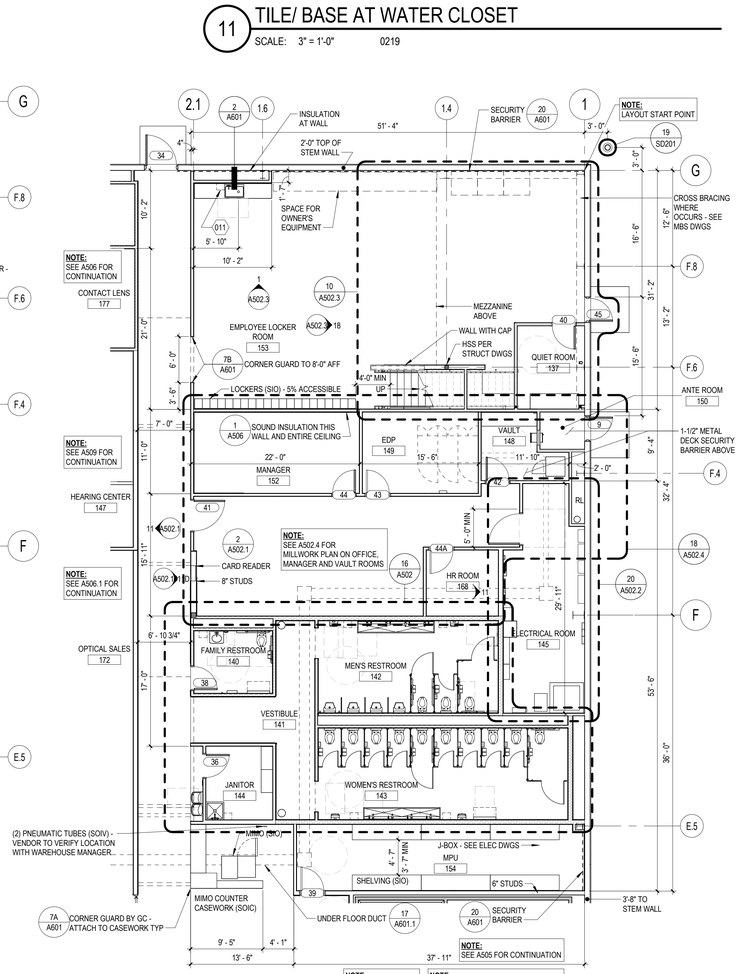
NOTE:
KEEP ABOVE CLEAR FOR TUBES - COORDINATE WITH OTHER TRADES

GC NOTE:
1. SEE ELECTRICAL DWGS FOR LOCATIONS OF FIXTURES IN SUSPENDED CEILING SYSTEM.
2. ALL CEILING GRIDS TO BE CENTERED IN ROOM UNLESS OTHERWISE NOTED.
3. FOR CEILING GRID DETAILS - SEE: 1/A601

EQUIPMENT LEGEND - OFFICE CORE				
EQ NO	QTY	DESCRIPTION	SUPPLY / INSTALL	REMARKS
001	1	DETERGENT PACKAGES	SIV	
005	1	SOAP DISPENSER	SIO	
011	7	PAPER TOWEL DISPENSER	SOIC	

18 OFFICE CORE REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0" 1025



20 OFFICE CORE FLOOR PLAN

SCALE: 1/8" = 1'-0" 1025

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

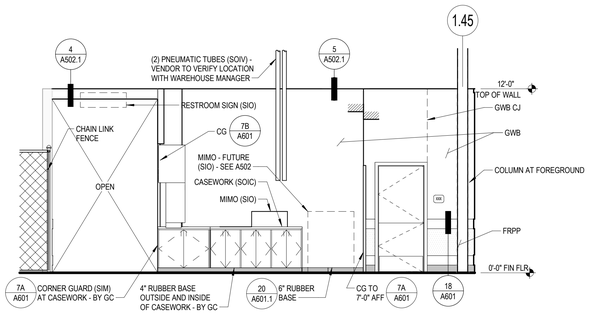
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

OFFICE CORE PLAN, ELEVATIONS AND DETAILS

A502

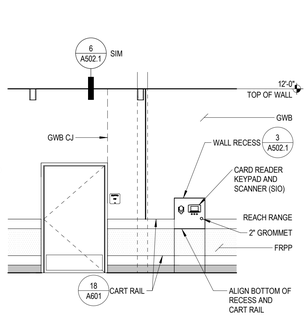
12/22/2025 9:41:31 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
GOVERNING AGENCIES
LEES SUMMIT, MISSOURI
03/26/2026 4:03:47



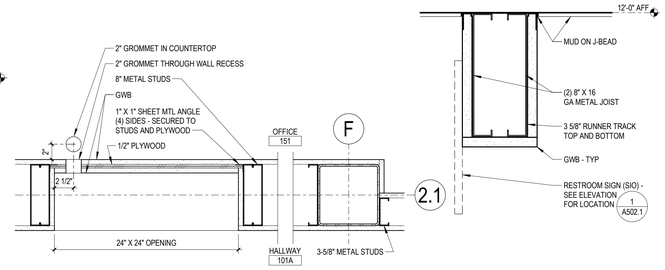
1 MIMO COUNTER FRONT

SCALE: 1/4" = 1'-0" 0924



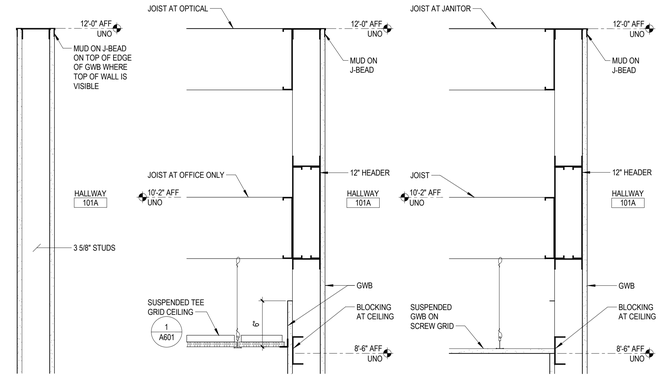
2 CARD READER RECESS

SCALE: 1/4" = 1'-0" 0723



3 CARD READER RECESS JAMB (HEAD SIM)

SCALE: 1 1/2" = 1'-0" 1023



4 PASSAGE HEADER

SCALE: 3" = 1'-0" 0423

5 TOP OF WALLS

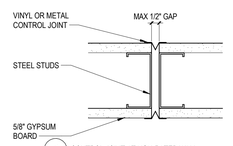
SCALE: 1 1/2" = 1'-0" 0423

6 TOP OF WALLS

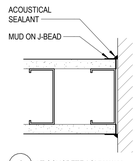
SCALE: 1 1/2" = 1'-0" 0423

7 TOP OF WALLS

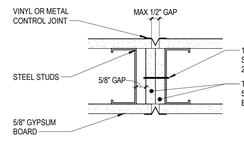
SCALE: 1 1/2" = 1'-0" 0423



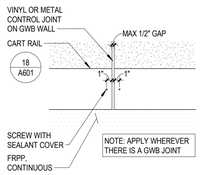
B CONTROL JOINT AT NON-RATED WALL



C AT CONCRETE / CMU WALL

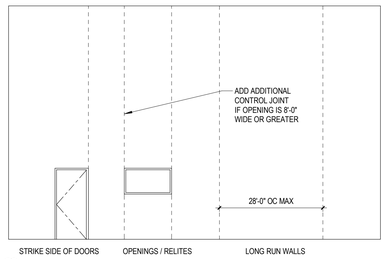


A CONTROL JOINT AT 1-HOUR RATED WALL (WHERE OCCURS)



D CONTROL JOINT AT CART RAIL - ELEVATION

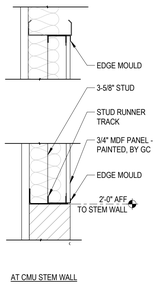
NOTE:
GYPSUM PANEL JOINTS SHALL NOT OCCUR WITHIN 12" OF THE CORNER OF DOOR FRAMES / OPENINGS UNLESS INSTALLING CONTROL JOINTS AT THESE LOCATIONS



E CONTROL JOINT PLACEMENT

8 GYPSUM BOARD CONTROL JOINTS

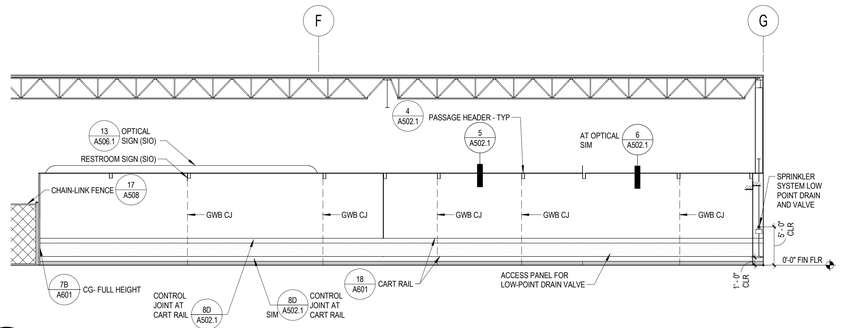
SCALE: 3" = 1'-0" 0924



AT CMU STEM WALL

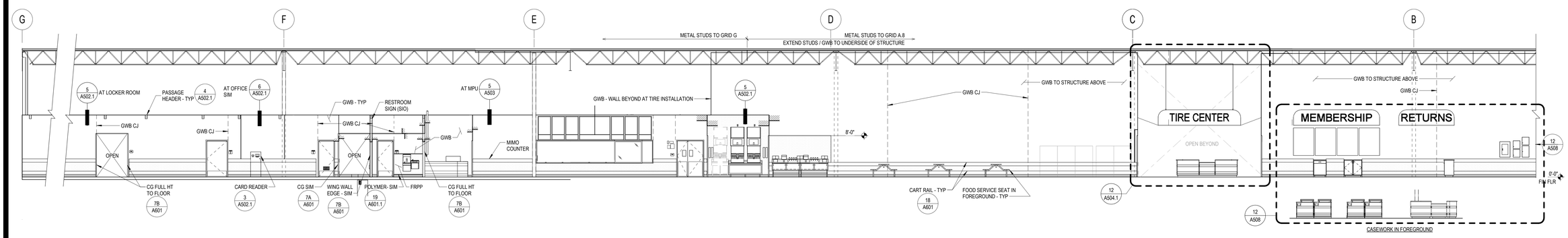
MDF PANELS AT ENTRY / EXIT SKEW WALL

SCALE: 1" = 1'-0" 1223



11 HALLWAY

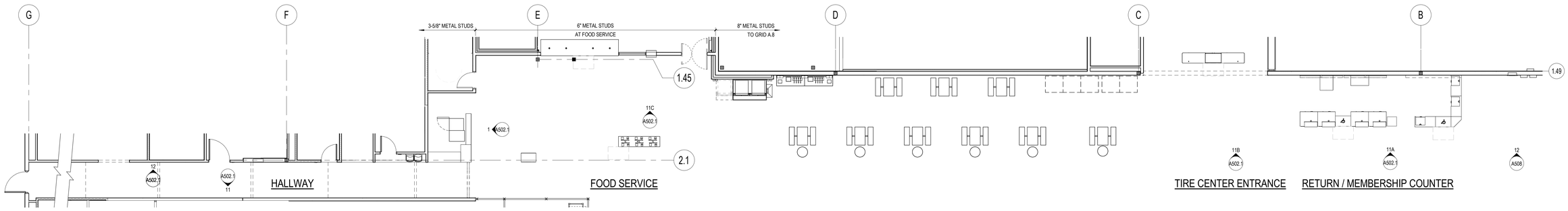
SCALE: 1/8" = 1'-0" 0924



HALLWAY FOOD SERVICE TIRE CENTER ENTRANCE RETURNS / MEMBERSHIP COUNTER

12 FRONT END, FOOD SERVICE, AND HALLWAY

SCALE: 1/8" = 1'-0" 0825



16 FRONT END AND HALLWAY KEY PLAN

SCALE: 1/8" = 1'-0"

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

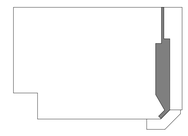
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

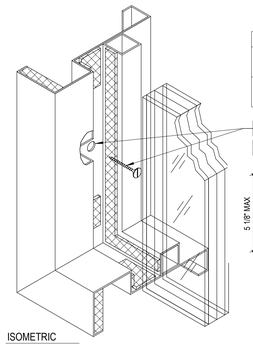
FRONT END, ENTRY AND HALLWAY ELEVATIONS AND DETAILS

A502.1

12/22/2025 9:41:35 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

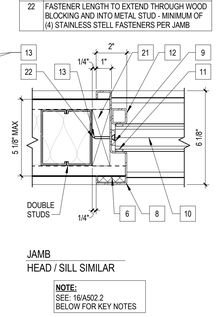
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COSTCO SHOP DRAWINGS
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:47

12/22/2025 9:41:39 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt



ISOMETRIC
NOT TO SCALE

ADDITIONAL WINDOW KEYNOTES	
21	CONT WOOD BLOCKING - SECURE TO WINDOW FRAME PRIOR TO INSTALLING WINDOW IN ROUGH OPENING
22	FASTENER LENGTH TO EXTEND THROUGH WOOD BLOCKING AND INTO METAL STUD - MINIMUM OF (4) STAINLESS STELL FASTENERS PER JAMB

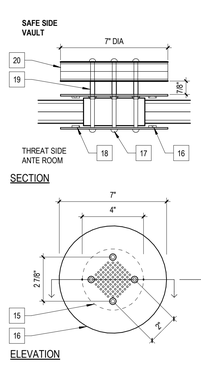


JAMB
HEAD / SILL SIMILAR

NOTE:
SEE 16/A502.2
BELOW FOR KEY NOTES

1 SECURITY WINDOW

SCALE: 3" = 1'-0" 0624



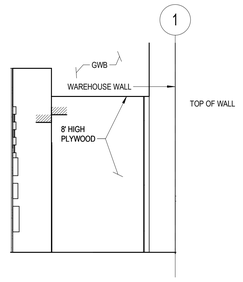
SECTION

ELEVATION

WINDOW KEYNOTES AT SPEAKER	
15	UL LISTED ARMORTEX BULLET RESISTANT COMPOSITES
16	16 GA SST FRAME
17	1/4" DIA SST SCREWS
18	TREMCO-440 GLAZING TAP
19	SPACER UNITS
20	UL LISTED LEVEL 3 BULLET RESISTANT POLYCORBONATE TP 300

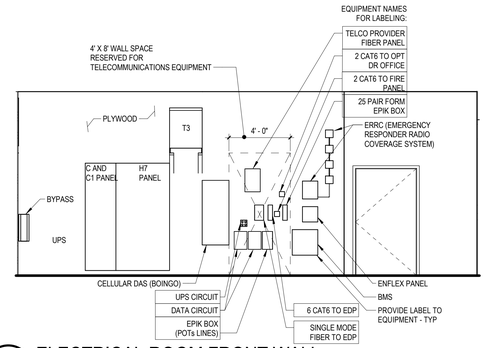
2 SPEAKER PORT

SCALE: 3" = 1'-0" 0624



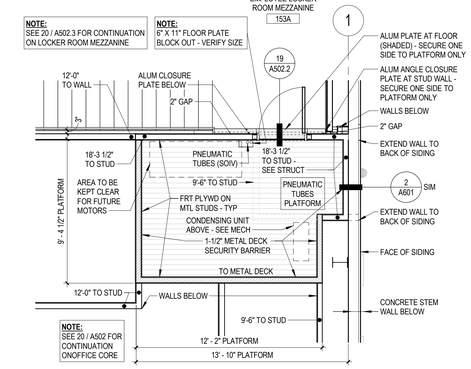
3 ELECTRICAL ROOM SIDE WALL

SCALE: 1/4" = 1'-0" 1024



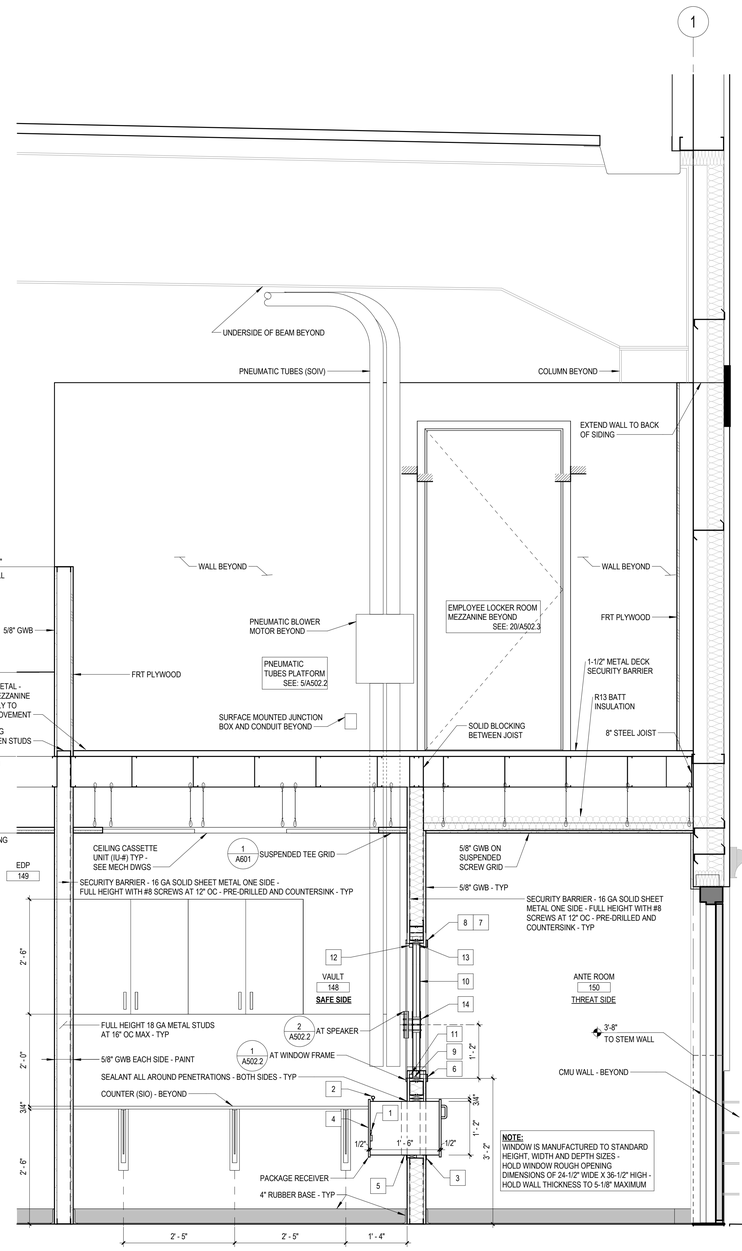
4 ELECTRICAL ROOM FRONT WALL

SCALE: 1/4" = 1'-0" 0924



5 PNEUMATIC TUBES AT PLATFORM

SCALE: 1/4" = 1'-0" 1224

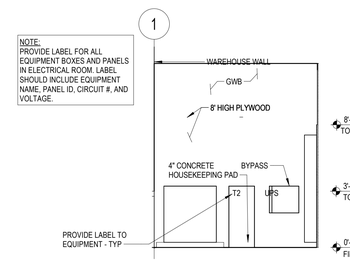


WINDOW KEYNOTES	
6	UL LISTED ARMORTEX BULLET RESISTANT COMPOSITES
7	FLUSH WELD ALL CORNERS BY MECHANICAL MEANS
8	16 GA SST FRAME
9	NEOPRENE SETTINGS BLOCKS-TYPICAL TA (4) SIDES
10	UL LISTED ARMORTEX BULLET RESISTANT GLAZING
11	TREMCO-440 GLAZING TAPE
12	REMOVABLE STOP 1" X 1"
13	ANCHORS AND ANCHOR HOLES AS REQUIRED
14	SPEAKER MODEL #SSBRS-7

PACKAGE RECEIVER NOTES	
1	PADDLE LATCH WITH KEY LOCK
2	OUTSIDE DOOR RELEASE HANDLE
3	MOUNTING FLANGE (SHOP WELDED)
4	16 GA STEEL DOOR WITH UL LISTED LEVEL 3 BULLET RESISTANT FIBERGLASS
5	TWO PIECE 12 GA ADJUSTABLE MOUNTING FLANGE (SHIPPED LOOSE)

16 ANTE ROOM / VAULT

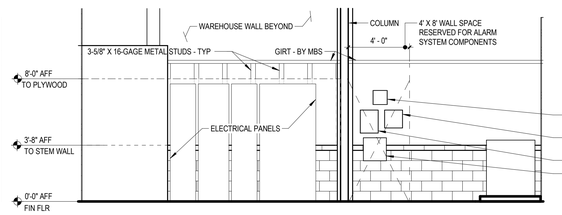
SCALE: 3/4" = 1'-0" 1125



NOTE:
PROVIDE LABEL FOR ALL EQUIPMENT BOXES AND PANELS IN ELECTRICAL ROOM. LABEL SHOULD INCLUDE EQUIPMENT NAME, PANEL ID, CIRCUIT #, AND VOLTAGE.

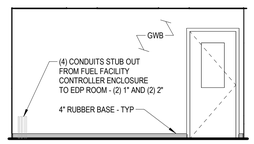
8 ELECTRICAL ROOM SIDE WALL

SCALE: 1/4" = 1'-0" 0924



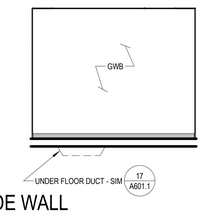
9 ELECTRICAL ROOM BACK WALL

SCALE: 1/4" = 1'-0" 1024



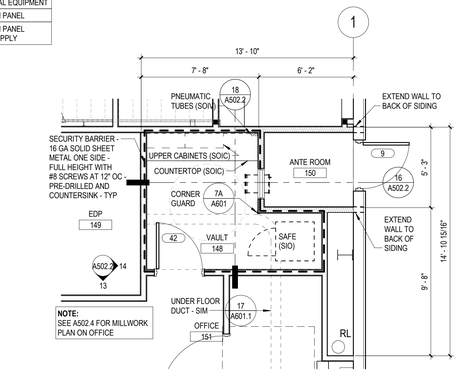
13 EDP FRONT WALL

SCALE: 1/4" = 1'-0" 0623



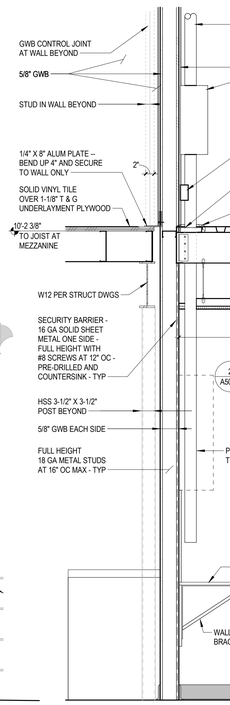
14 EDP SIDE WALL

SCALE: 1/4" = 1'-0" 0623



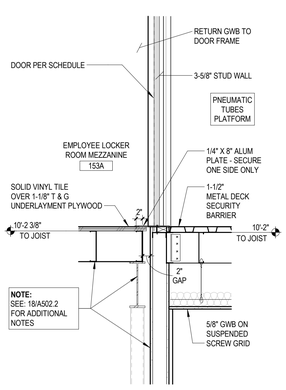
15 ANTE ROOM, VAULT AND EDP PLAN

SCALE: 1/4" = 1'-0" 0225



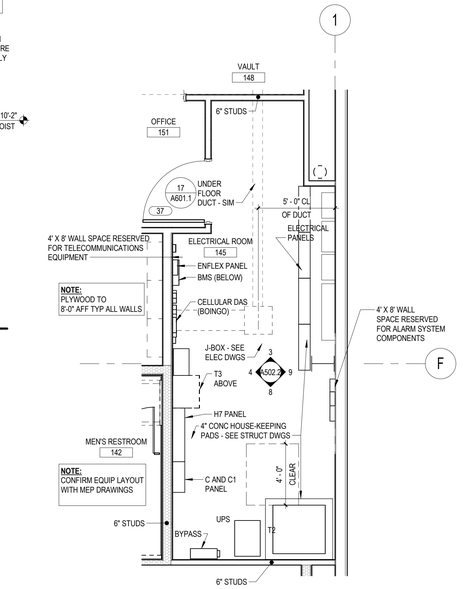
18 VAULT

SCALE: 3/4" = 1'-0" 1125



19 AT THRESHOLD

SCALE: 3/4" = 1'-0" 1124



20 ELECTRICAL ROOM PLAN

SCALE: 1/4" = 1'-0" 1124

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

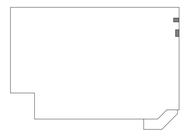
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

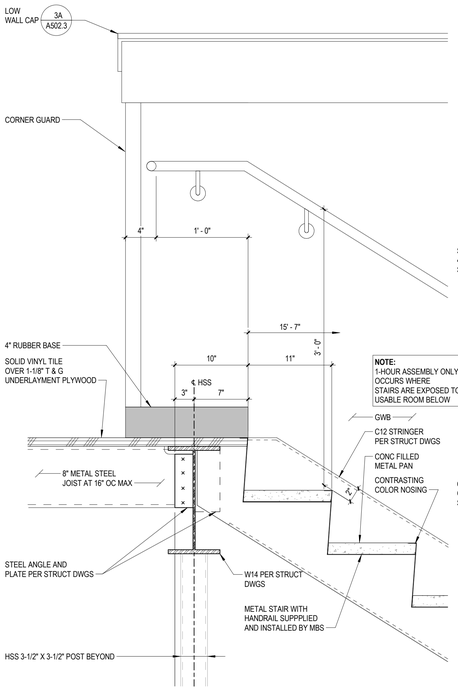
△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY:Author
12/22/25

ELECTRICAL, EDP, VAULT AND ANTE ROOM PLANS AND DETAILS

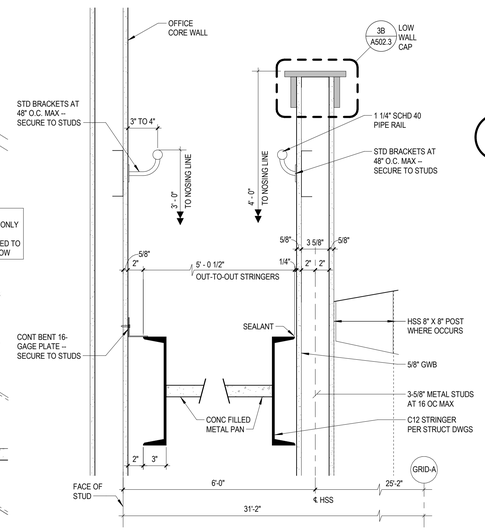
A502.2

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CITY OF LEE'S SUMMIT
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:47



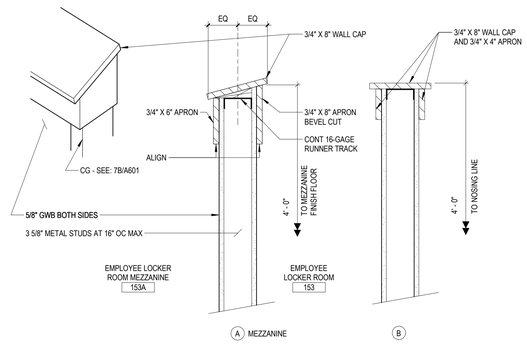
6 TOP OF STAIRS

SCALE: 1 1/2" = 1'-0" 0125



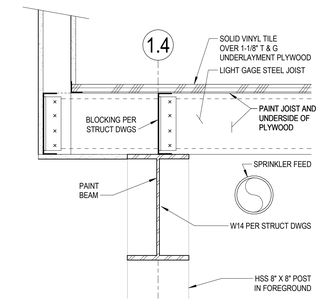
7 STAIR CROSS SECTION

SCALE: 1 1/2" = 1'-0" 1124



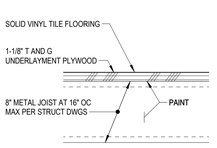
3 LOW WALL CAP

SCALE: 1 1/2" = 1'-0" 0125



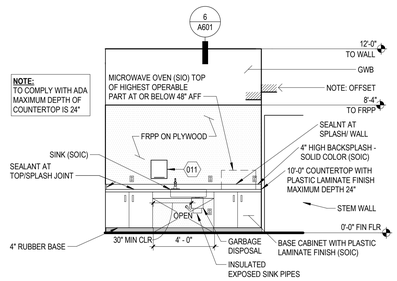
8 MEZZANINE BEAM

SCALE: 1 1/2" = 1'-0" 1124



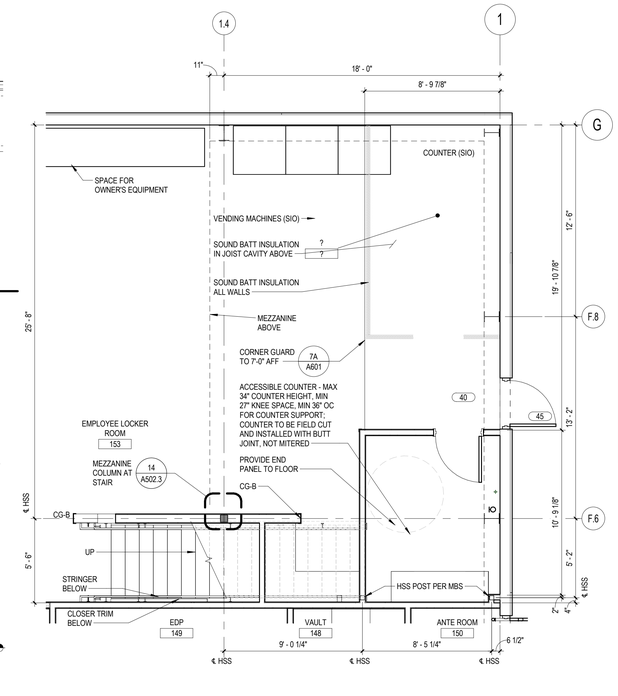
5 MEZZANINE FLOOR

SCALE: 1 1/2" = 1'-0" 1124



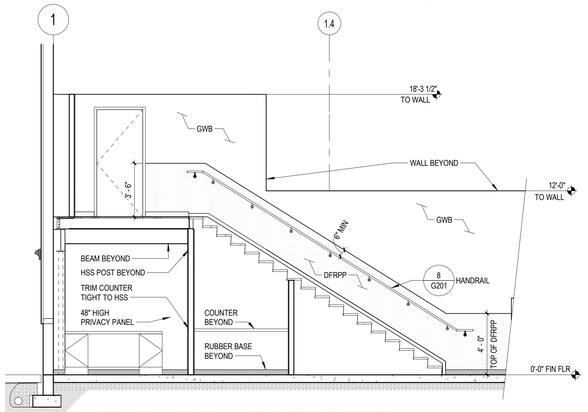
1 LOCKER ROOM BACK WALL

SCALE: 1/4" = 1'-0" 0924



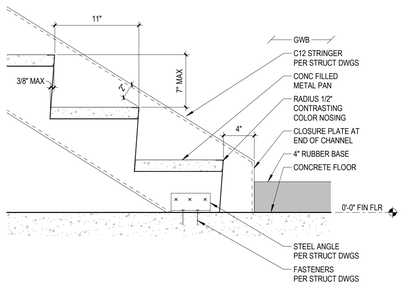
10 PARTIAL EMPLOYEE LOCKER ROOM PLAN

SCALE: 1/4" = 1'-0" 1224



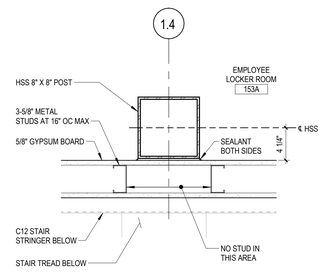
11 THROUGH STAIRS LOOKING AT OFFICE CORE

SCALE: 1/4" = 1'-0" 1124



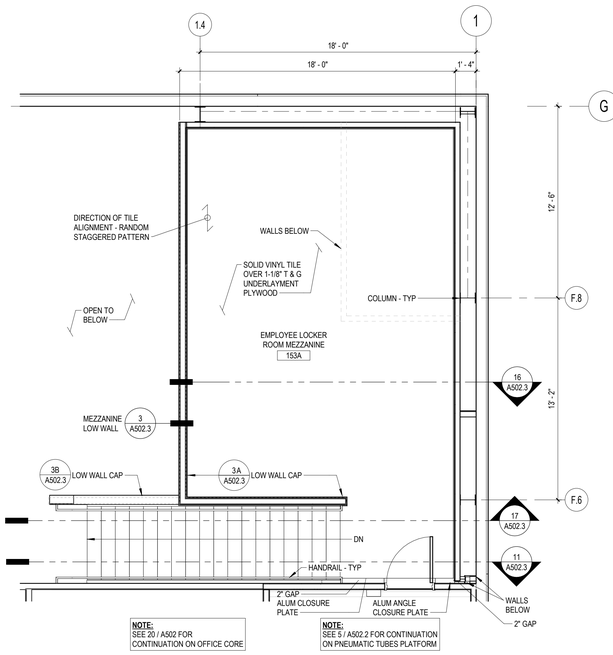
13 AT BOTTOM OF STAIRS

SCALE: 1 1/2" = 1'-0" 1124



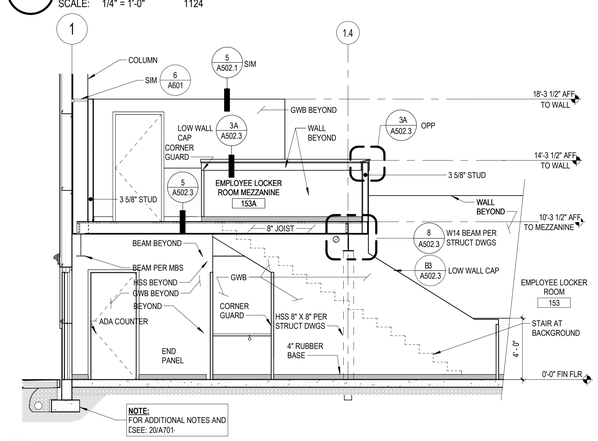
14 MEZZANINE COLUMN AT STAIR

SCALE: 1 1/2" = 1'-0" 1124



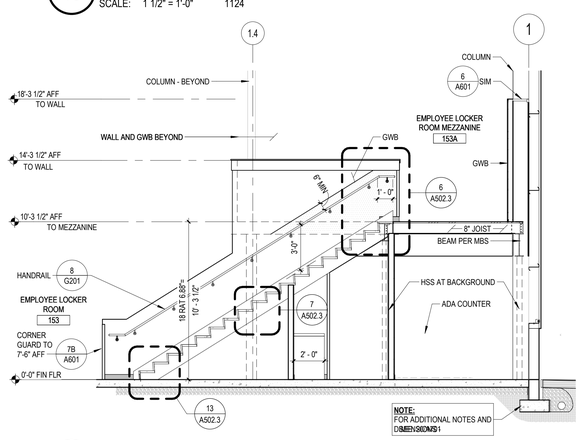
20 EMPLOYEE LOCKER ROOM MEZZANINE PLAN

SCALE: 1/4" = 1'-0" 0125



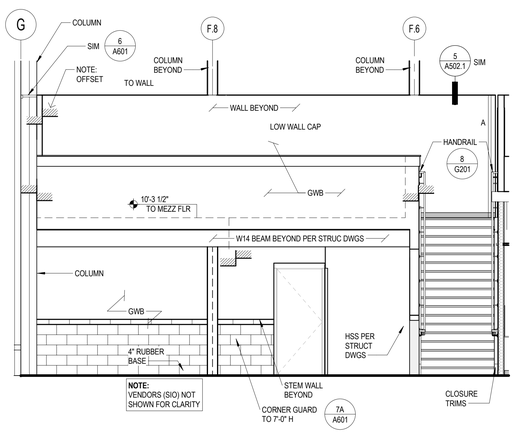
16 CROSS SECTION

SCALE: 1/4" = 1'-0" 0125



17 STAIR SECTION

SCALE: 1/4" = 1'-0" 0125



18 MEZZANINE FRONT

SCALE: 1/4" = 1'-0" 0125

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

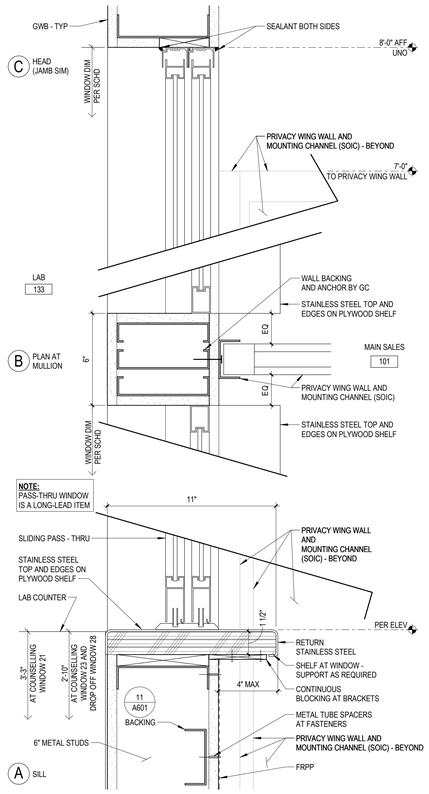
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

EMPLOYEE LOCKER ROOM MEZZANINE PLANS, SECTIONS AND DETAILS

A502.3

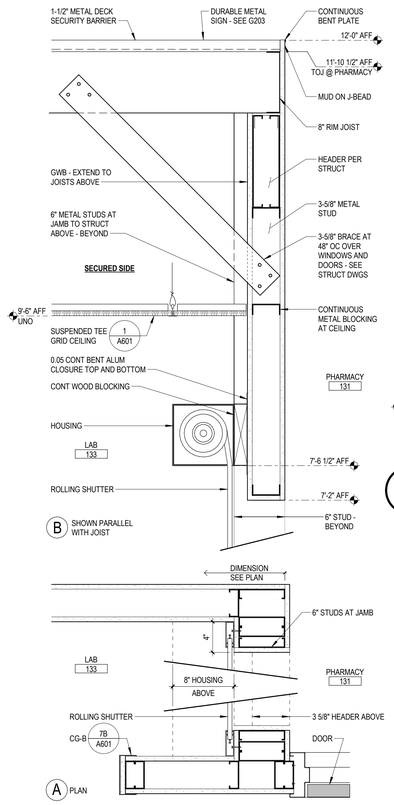
12/22/2025 9:41:43 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:47



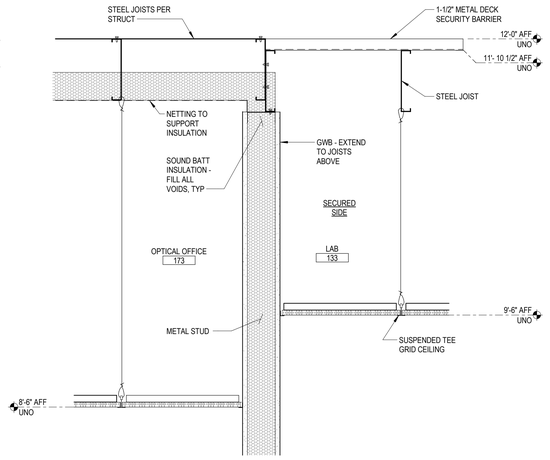
7 PHARMACY WINDOW AND SHELF

SCALE: 3" = 1'-0" 0225



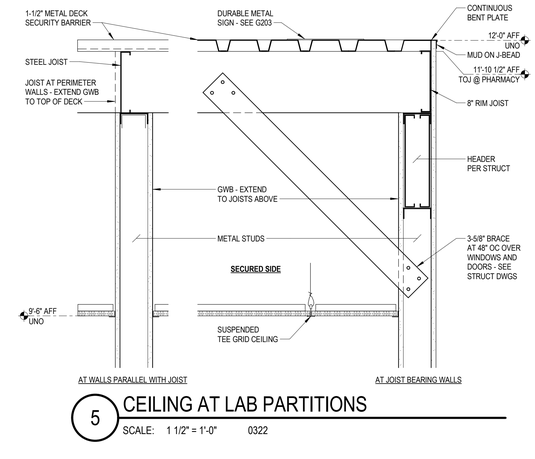
8 OVERHEAD ROLLING SHUTTER

SCALE: 1 1/2" = 1'-0" 0624



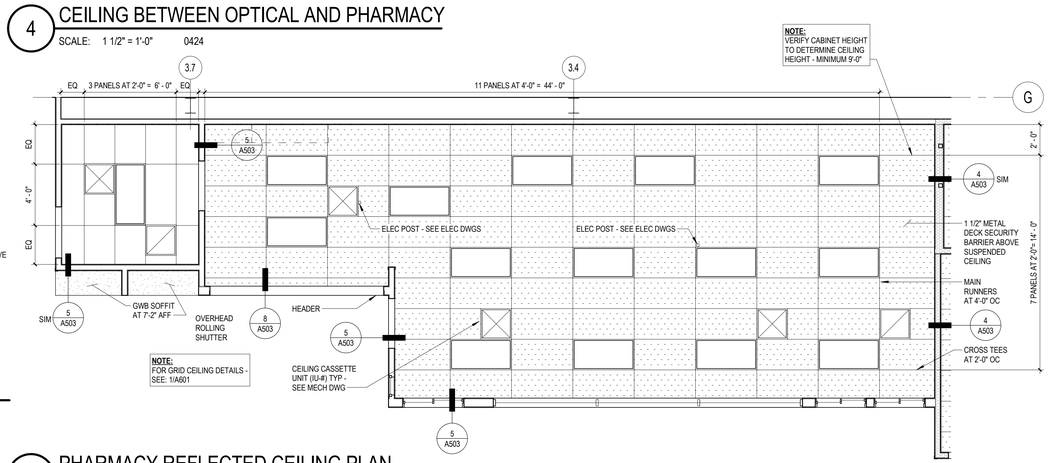
4 CEILING BETWEEN OPTICAL AND PHARMACY

SCALE: 1 1/2" = 1'-0" 0424



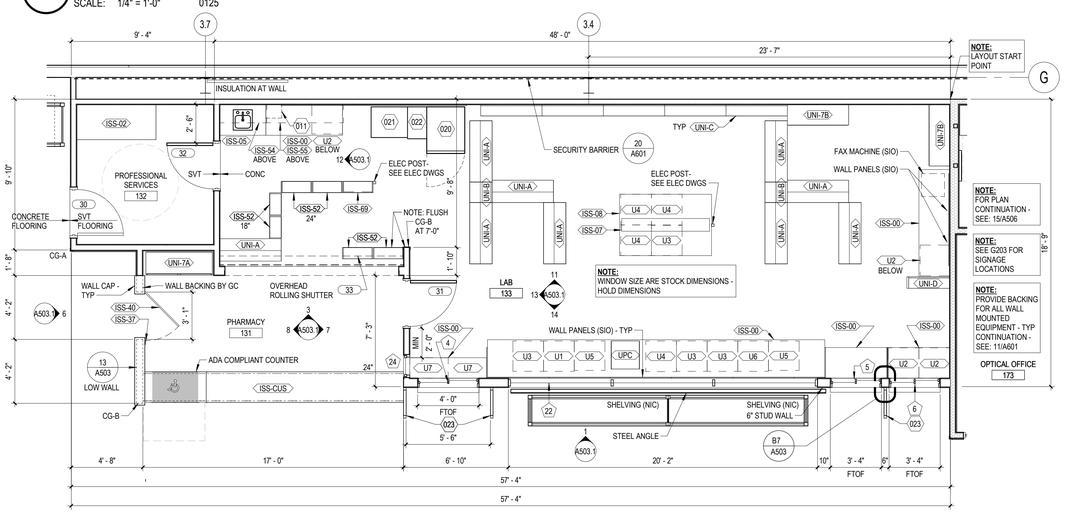
5 CEILING AT LAB PARTITIONS

SCALE: 1 1/2" = 1'-0" 0322



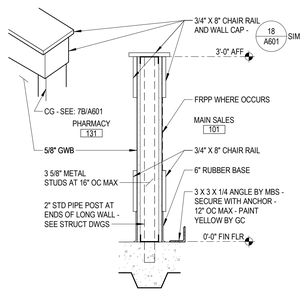
9 PHARMACY REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0" 0125



19 PHARMACY FLOOR PLAN

SCALE: 1/4" = 1'-0" 0225



13 PHARMACY LOW WALL

SCALE: 1" = 1'-0" 0623

EQUIPMENT SCHEDULE- PHARMACY

EQ NO	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
011	1	PAPER TOWEL DISPENSER	SOIC	
020	1	REFRIGERATOR	SIO	PER ELECTRICAL PLANS
021	1	RECYCLE BIN	SIO	
022	1	FILE CABINET	SIO	
023	3	PRIVACY WING WALL	SOIC	

CASEWORK SCHEDULE - PHARMACY (SIO)

CASE#	QTY	DESCRIPTION	REMARKS
ISS-00	6	COUNTERTOP	
ISS-02	1	TABLE	
ISS-05	1	ACCESSIBLE SINK COUNTER WITH BACKSPLASH	
ISS-07	1	CENTER ISLAND COUNTER TOP CUBBY	
ISS-08	1	COUNTERTOP	
ISS-37	1	GATE LATCH	
ISS-40	1	GATE	WALL BACKING BY GC
ISS-52	6	PASS THROUGH WILL CALL BIN	(4) 24"- (2) 18"
ISS-54	1	SINK WALL UPPER CABINET	36" LENGTH
ISS-55	1	SINK WALL UPPER CABINET	60" LENGTH
ISS-69	1	PASS THROUGH WILL CALL BIN WITH CPU INSET	
ISS-CUS	1	CUSTOMER SERVICE COUNTER - HYBRID	
U1	1	NARCOTIC CABINET	UNDER COUNTER

CASEWORK SCHEDULE - PHARMACY (SIO)

CASE#	QTY	DESCRIPTION	REMARKS
U2	4	4 DRAWER CABINET	UNDER COUNTER
U3	4	5 DRAWER CABINET	UNDER COUNTER
U4	4	BOTTLE DISPENSER	UNDER COUNTER
U5	2	OPEN STORAGE CABINET	UNDER COUNTER
U6	1	2 DRAWER CABINET	UNDER COUNTER
U7	2	CONSULTANT WINDOW CABINET	UNDER COUNTER
UNI-7A	1	RX-SHELF WALL DISPLAY	
UNI-7B	2	2 SHELF WALL-16" DEPTH	
UNI-A	9	SHELVING-SLIMLINE-48"W	
UNI-B	2	SHELVING-SLIMLINE-16"W	
UNI-C	5	SHELVING SYSTEM 48" W	
UNI-D	1	SHELVING SYSTEM 32" W	
UPC	1	SMALL OPEN BOX WITH CASTERS	UNDER COUNTER

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

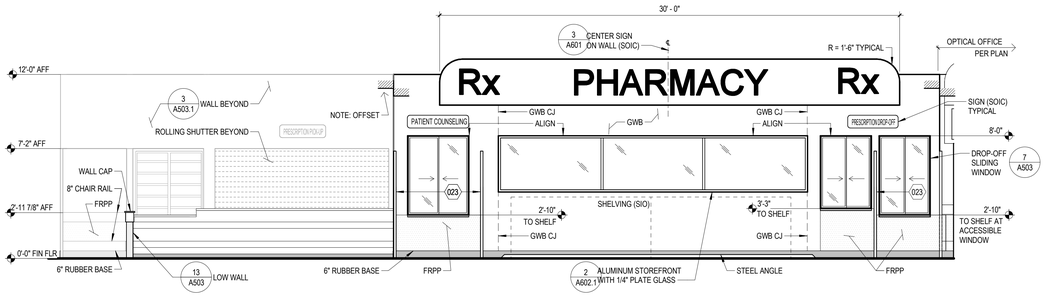
△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

PHARMACY PLANS, ELEVATIONS AND DETAILS

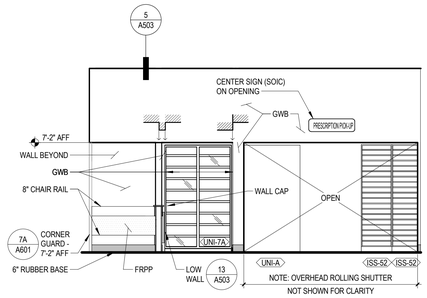
A503

12/22/2025 9:41:46 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt



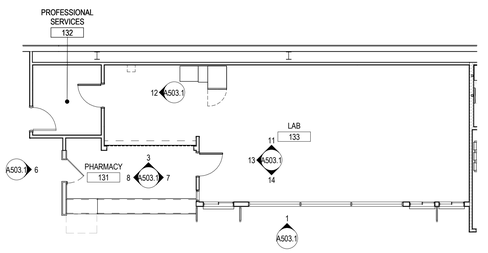
1 PHARMACY FRONT

SCALE: 1/4" = 1'-0" 0125



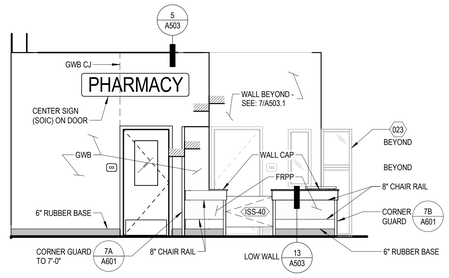
3 PHARMACY BACK WALL

SCALE: 1/4" = 1'-0" 0124



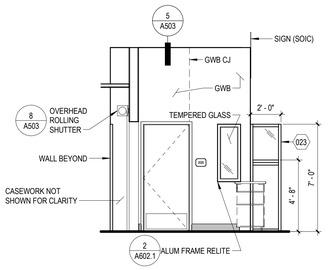
4 KEY PLAN

SCALE: 1/8" = 1'-0"



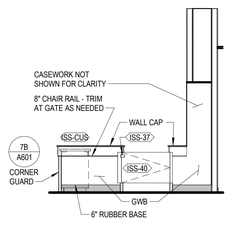
6 PHARMACY END

SCALE: 1/4" = 1'-0" 0225



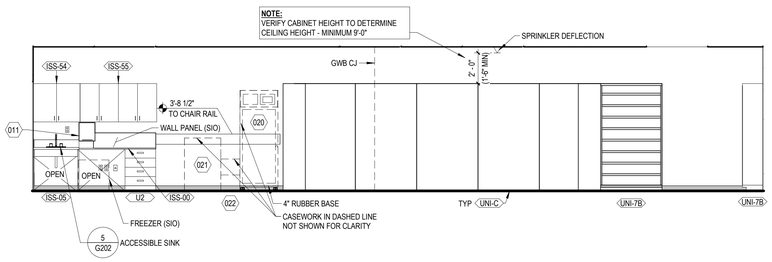
7 PHARMACY SIDE WALL

SCALE: 1/4" = 1'-0" 0125



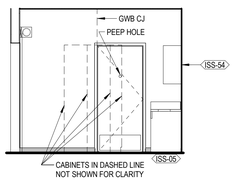
8 PHARMACY SIDE WALL

SCALE: 1/4" = 1'-0" 0125



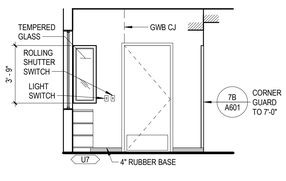
11 LAB BACK WALL

SCALE: 1/4" = 1'-0" 0824



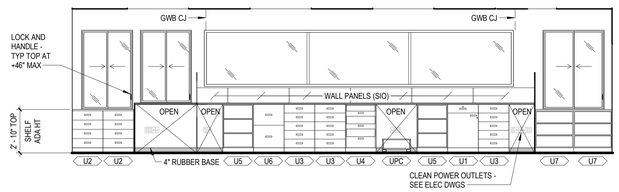
12 LAB END WALL

SCALE: 1/4" = 1'-0" 0823



13 LAB ENTRY WALL

SCALE: 1/4" = 1'-0" 0923



14 LAB FRONT WALL

SCALE: 1/4" = 1'-0" 0225

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT RELEASE
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:47

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

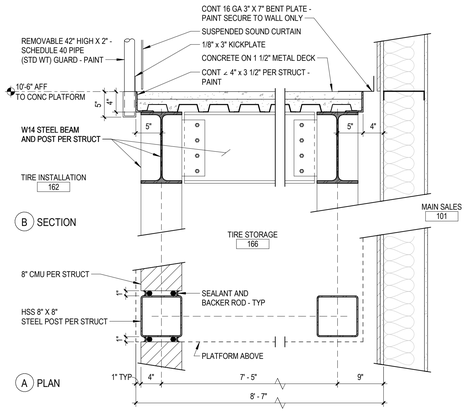
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

PHARMACY ELEVATIONS

A503.1

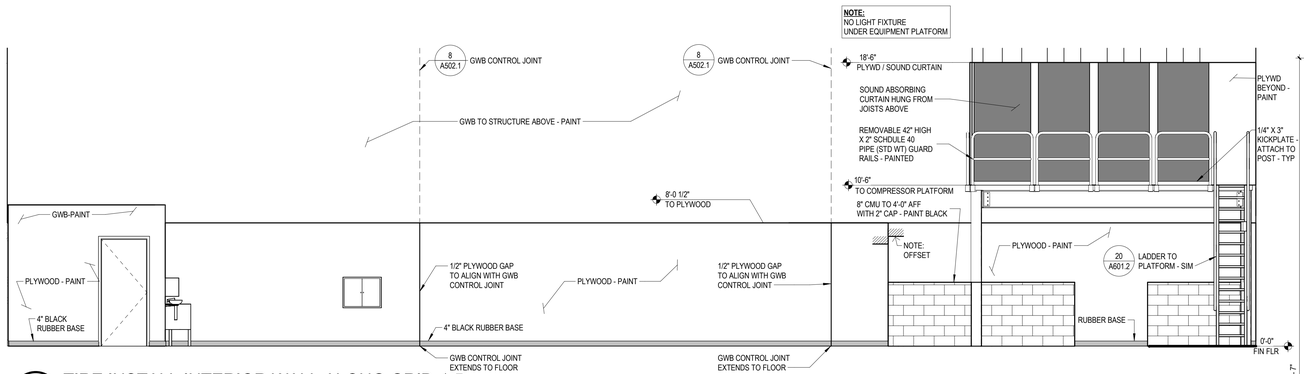
Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt
12/22/2025 9:41:48 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COSTCO WHOLESALE
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:47



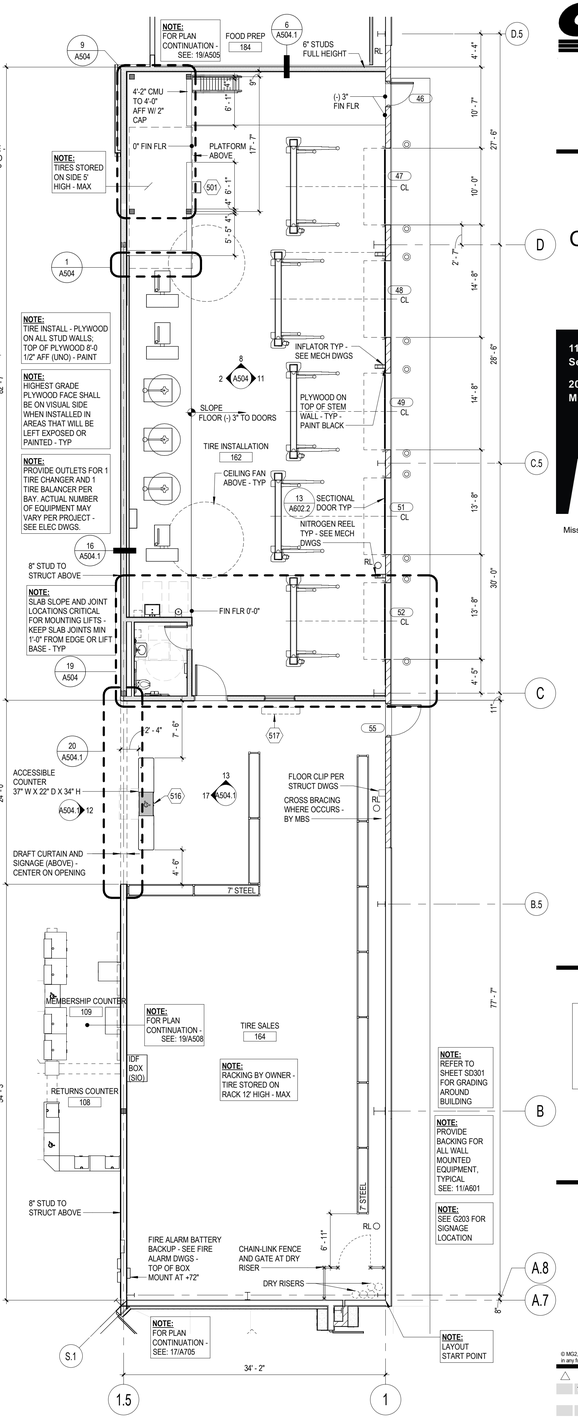
1 AT TIRE PLATFORM

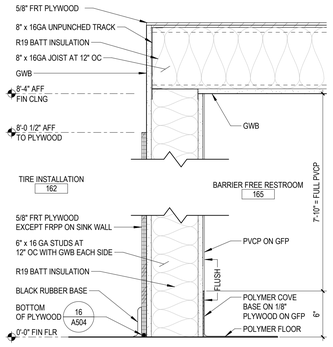
SCALE: 1" = 1'-0" 0122



2 TIRE INSTALL INTERIOR WALL ALONG GRID-1.5

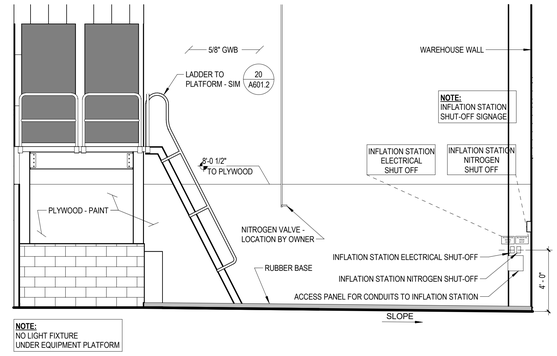
SCALE: 1/4" = 1'-0" 0225





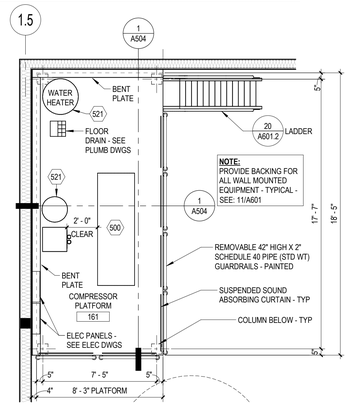
7 AT BARRIER-FREE RESTROOM

SCALE: 1 1/2" = 1'-0" 0225



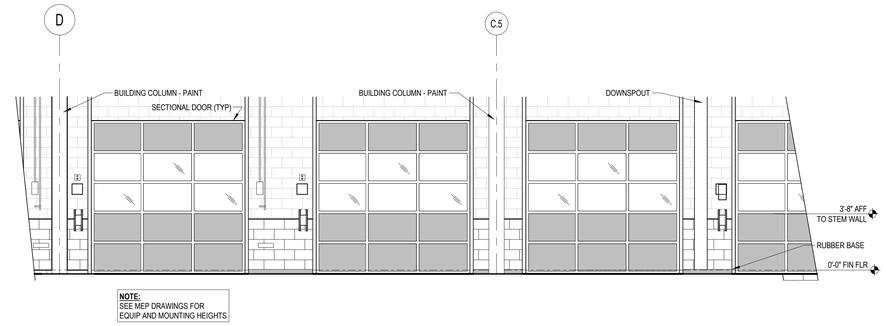
8 TIRE INSTALL AT STORAGE

SCALE: 1/4" = 1'-0" 0225



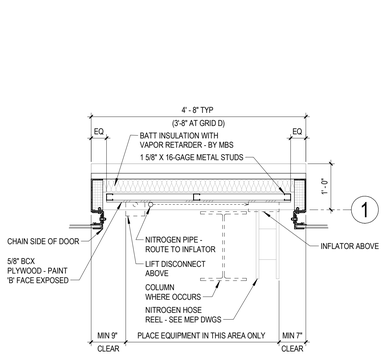
9 COMPRESSOR PLATFORM

SCALE: 1/4" = 1'-0" 1224



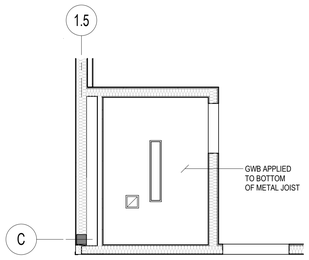
11 SERVICE DOORS ELEVATION

SCALE: 1/4" = 1'-0" 0924



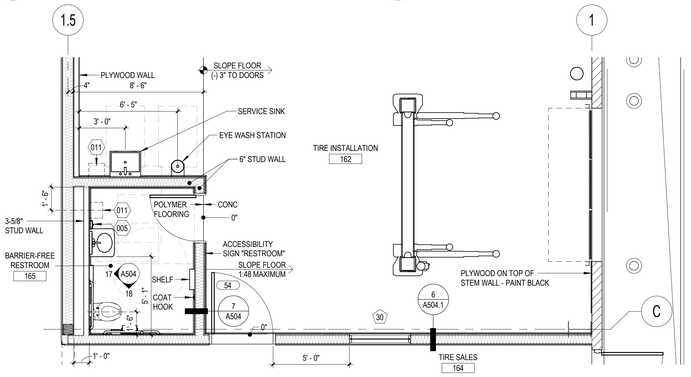
13 DETAIL AT SERVICE DOOR

SCALE: 3/4" = 1'-0" 0325



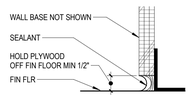
14 BARRIER-FREE RESTROOM CEILING PLAN

SCALE: 1/4" = 1'-0" 0325



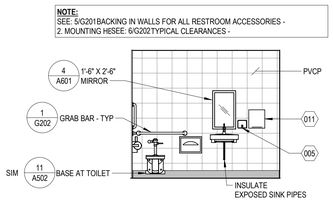
19 TIRE INSTALLATION ENTRY AND BARRIER-FREE RESTROOM ENLARGED PLAN

SCALE: 1/4" = 1'-0" 0225



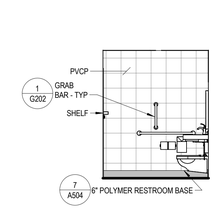
16 BOTTOM OF PLYWOOD

SCALE: 6" = 1'-0" 0225



17 FRONT ELEVATION BARRIER-FREE RESTROOM

SCALE: 1/4" = 1'-0" 0225



18 SIDE ELEVATION BARRIER-FREE RESTROOM

SCALE: 1/4" = 1'-0" 0225

EQUIPMENT LEGEND - TIRE CENTER

EQ NO	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
005	1	SOAP DISPENSER	SIO	
011	2	PAPER TOWEL DISPENSER	SOIC	
500	1	COMPRESSOR	SOIC	SEE NOTE 1
501	1	FLAT REPAIR STATION	SIO	
502	3	TIRE BALANCER	SIO	
504	3	TIRE CHANGER	SIO	
516	1	CUSTOMER SERVICE COUNTER	SOIC	
517	1	BENCH	SIO	VERIFY LOCATION WITH OWNER
518	2	TWO POST LIFT 10K	SOIC	SEE NOTE 2
519	3	TWO POST LIFT 12K	SOIC	SEE NOTE 2
521	1	NITROGEN GENERATOR STORAGE TANK	SOIC	SEE NOTE 1
522	2	10'-0" FAN	SOIC	
523	1	VALVE CABINET	SOIC	LOCATE PER OWNER
524	2	NITROGEN AIR TOWER	SOIC	SEE SD101 AND SD201

REMARK NOTES:
1. POSITIONED AND ANCHORED BY VENDOR - ELECTRICAL AND PLUMBING HOOK-UPS BY GC
2. POSITIONED AND ANCHORED BY VENDOR - ELECTRICAL HOOK-UPS BY GC

20 TIRE CENTER FLOOR PLAN

SCALE: 1/8" = 1'-0" 0725

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

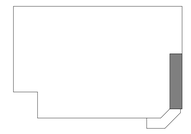
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI BRIAN J. BONAR NUMBER A-2021040571 ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

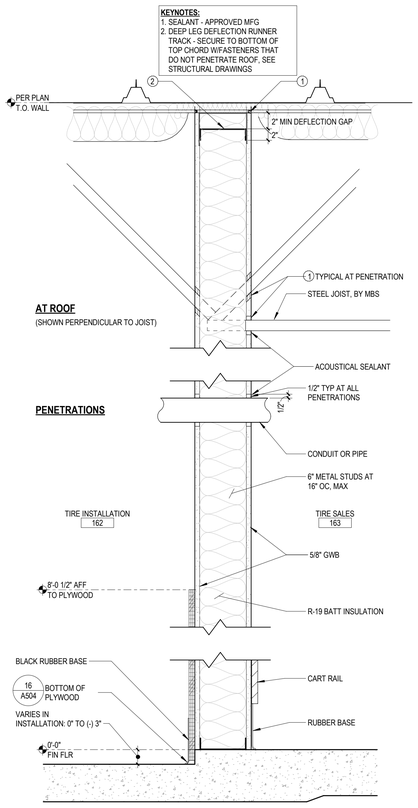
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

TIRE CENTER PLANS, SECTIONS, ELEVATIONS, AND DETAILS

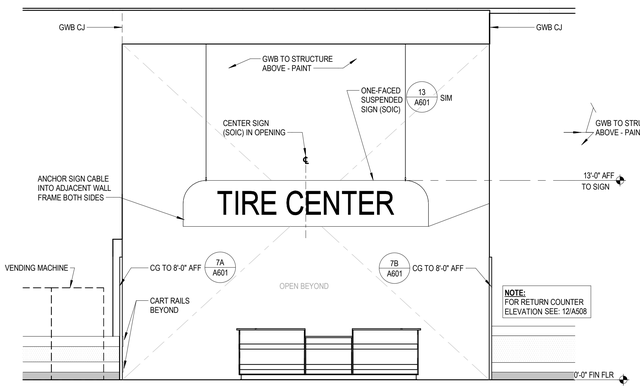
A504

12/22/2025 9:41:52 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

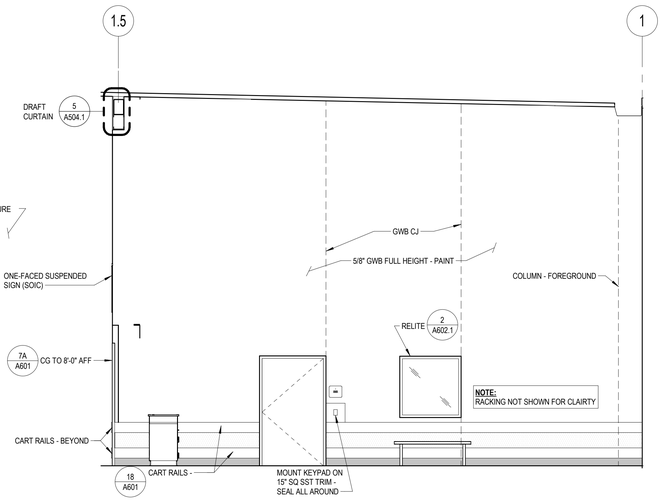
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:47



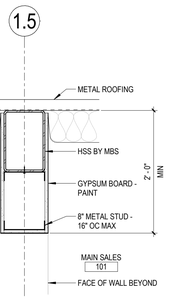
6 WALL BETWEEN TIRE INSTALL/ TIRE SALES
SCALE: 1 1/2" = 1'-0" 0225



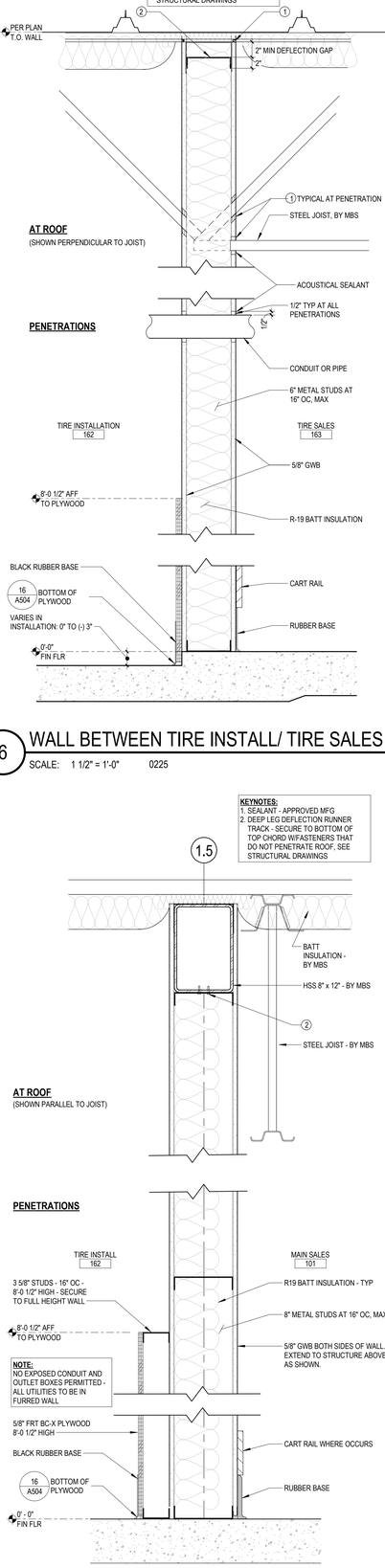
12 TIRE SALES ENTRANCE FROM MAIN SALES
SCALE: 1/4" = 1'-0" 0225



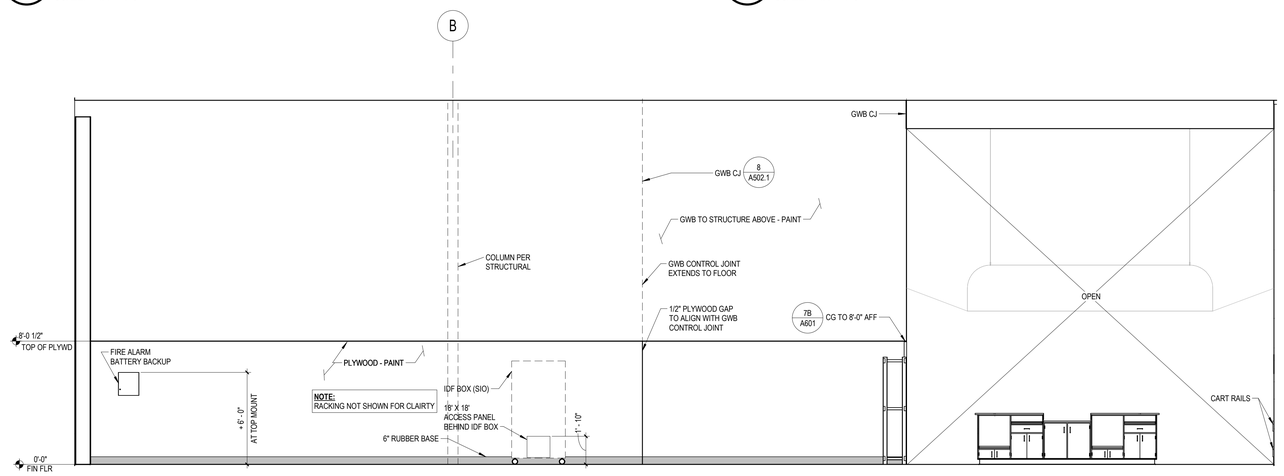
13 TIRE SALES - FRONT ELEVATION
SCALE: 1/4" = 1'-0" 0225



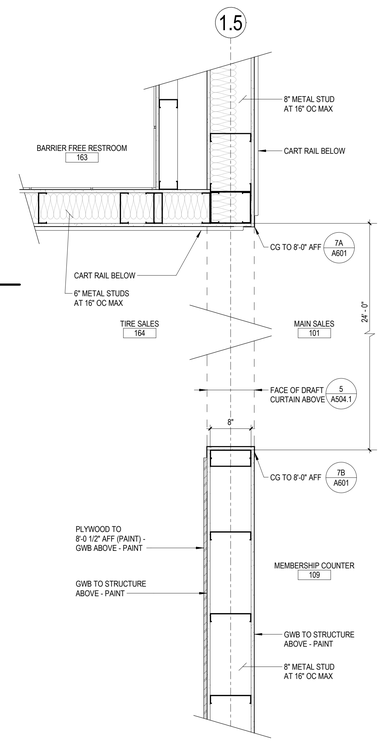
5 DRAFT CURTAIN AT ROOF BETWEEN TIRE SALES / MAIN SALES
SCALE: 1" = 1'-0" 0223



16 WALL BETWEEN TIRE INSTALL / MAIN SALES
SCALE: 1 1/2" = 1'-0" 0225



17 TIRE SALES ENTRACE FROM TIRE SALES
SCALE: 1/4" = 1'-0" 0225



20 PLAN AT OPENING BETWEEN TIRE SALES / MAIN SALES
SCALE: 1" = 1'-0" 0225

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI BRIAN J. BONAR NUMBER A-2021040571 ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

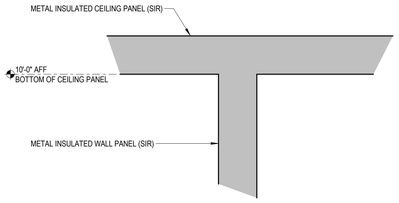
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

TIRE CENTER ENTRANCE ELEVATIONS AND DETAILS

A504.1

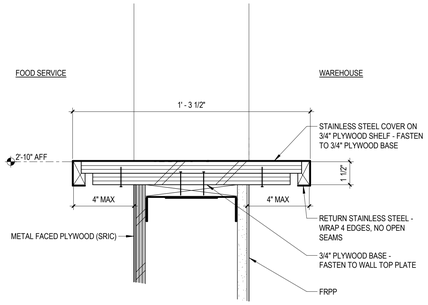
12/22/2025 9:41:54 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
GOVERNING AGENCIES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:48



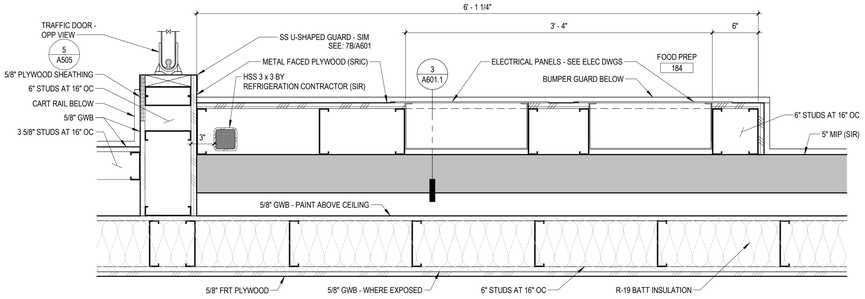
1 CEILING AT COOLER WALL

SCALE: 1 1/2" = 1'-0" 0623



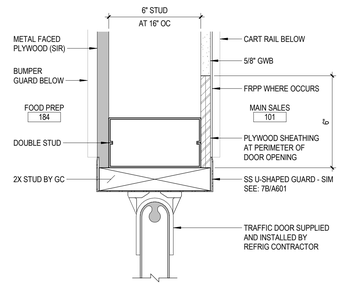
2 PIZZA PASS THRU SHELF

SCALE: 3" = 1'-0" 0623



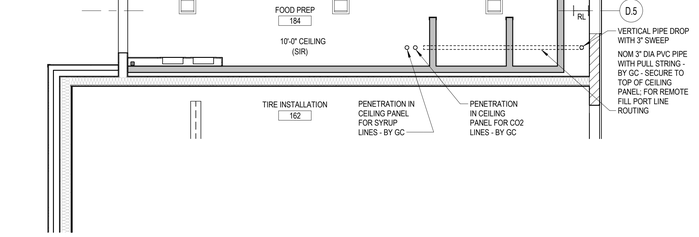
3 WALL AT ELECTRICAL PANELS

SCALE: 1 1/2" = 1'-0" 0623



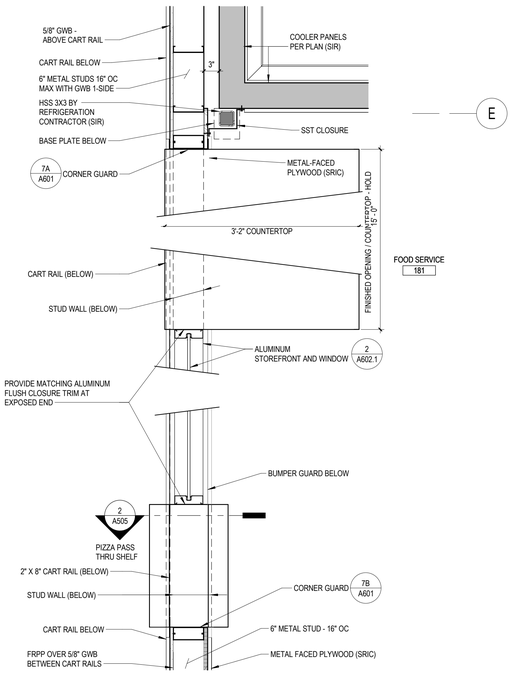
5 FOOD SERVICE TRAFFIC DOOR AT JAMB

SCALE: 3" = 1'-0" 0623 (HEAD SIM)



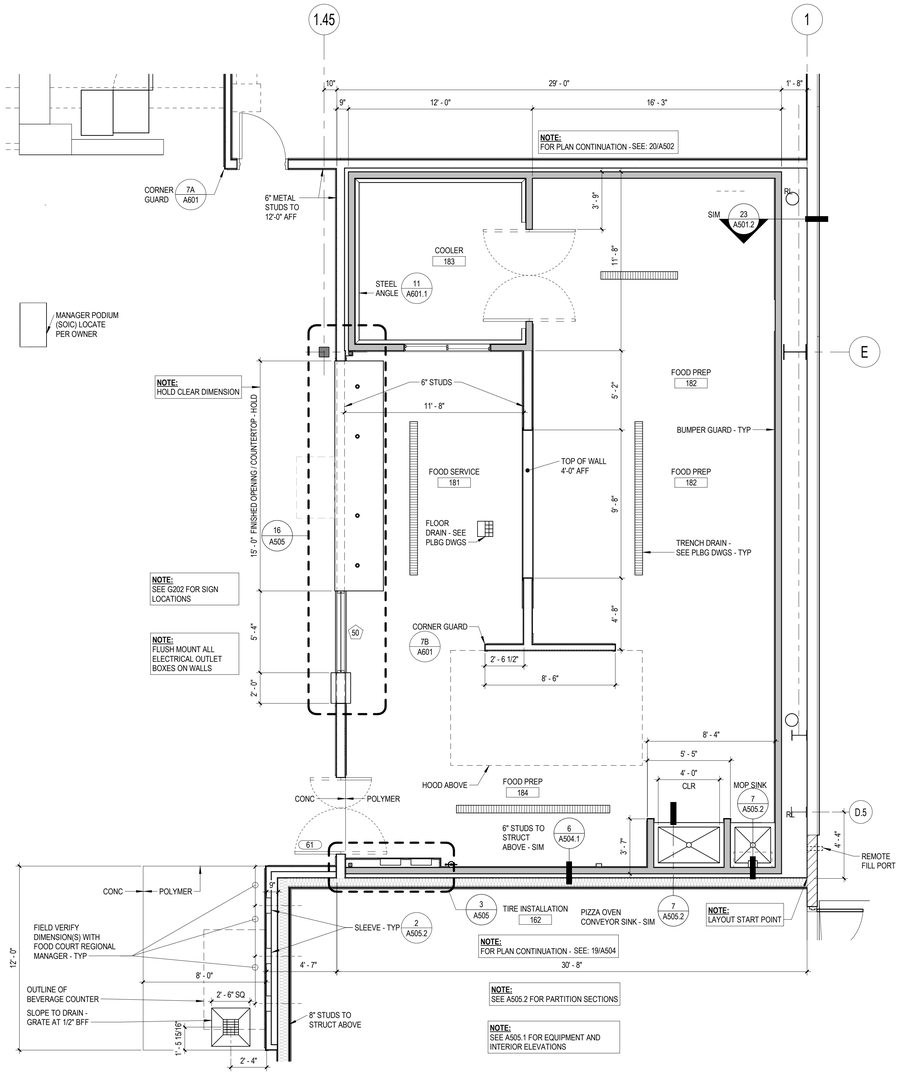
17 FOOD SERVICE REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0" 0625



16 FOOD SERVICE FRONT WALL

SCALE: 1" = 1'-0" 0823



19 FOOD SERVICE ENLARGED PLAN

SCALE: 1/4" = 1'-0" 0625

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

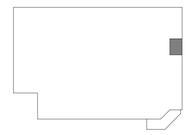
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

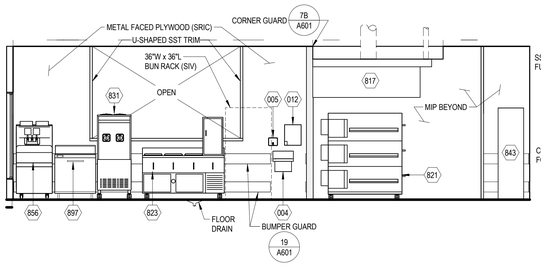
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

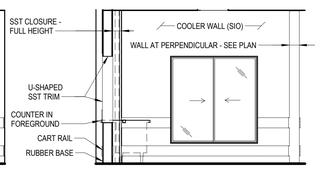
FOOD SERVICE PLANS AND DETAILS

A505

12/22/2025 9:41:56 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

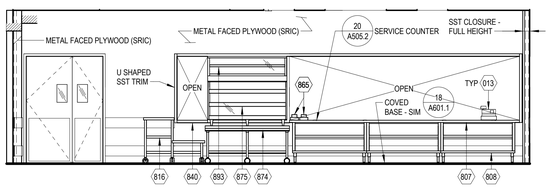
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CITY OF LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:48





1 FOOD SERVICE 181 - CENTER WALL

SCALE: 1/4" = 1'-0" 1123

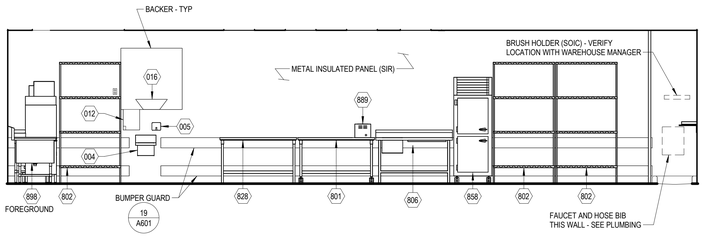


2 FOOD SERVICE 181 - END

SCALE: 1/4" = 1'-0" 0622

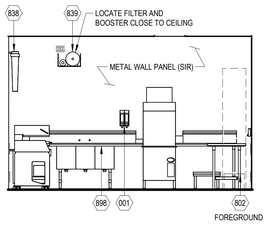
3 FOOD SERVICE 181 - WAREHOUSE WALL

SCALE: 1/4" = 1'-0" 0624



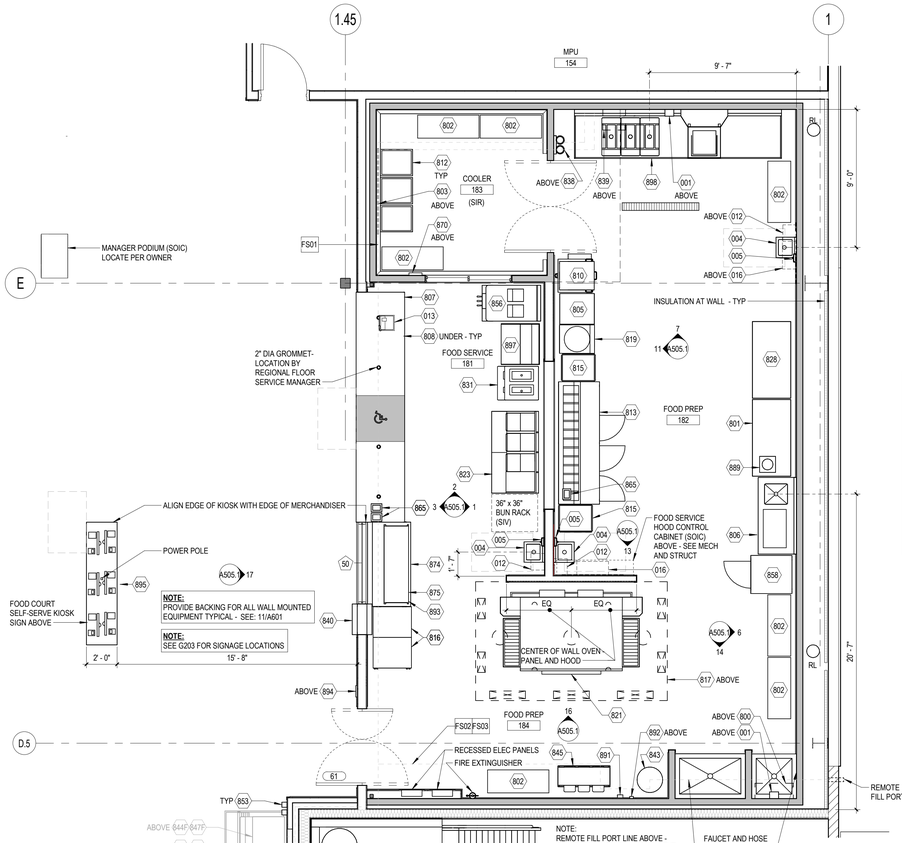
6 FOOD PREP 182 - BACK WALL

SCALE: 1/4" = 1'-0" 0623



7 FOOD PREP 182 - END

SCALE: 1/4" = 1'-0" 0225



KEY NOTES FOOD SERVICES

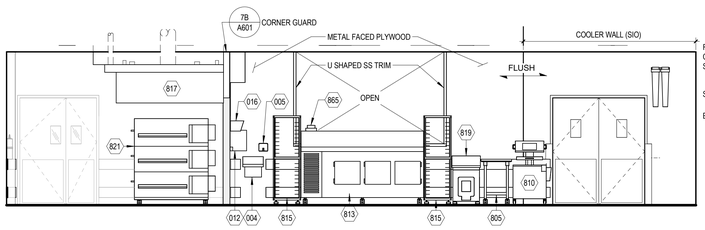
FS01	WATER LINES ABOVE CEILING. INSTALLED BY SODA VENDOR
FS02	SYRUP LINES ABOVE CEILING, INSTALLED BY SODA VENDOR
FS03	CO2 LINE ABOVE CEILING. INSTALLED BY SODA VENDOR

NOTE: GC TO PROVIDE OPENINGS IN CEILING AND WALL PANELS AS WELL AS ESCHUTCHEONS FOR WATER, SYRUP, AND CO2 LINES.

FURNISH AND INSTALL NOTES: OWNER FURNISHED ITEMS TO ARRIVE 21 DAYS PRIOR TO WAREHOUSE OPENING DATE. FOOD SERVICE AREA TO BE TURNED OVER TO OWNER AND FULLY OPERATIONAL 10 DAYS PRIOR TO WAREHOUSE OPENING DATE.

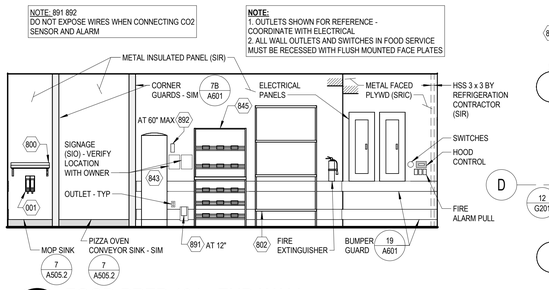
EQUIPMENT LEGEND - FOOD SERVICE

EQ NO	QTY	DESCRIPTION	SUPPLY/INSTALL	REMARKS
001	2	DETERGENT PACKAGES	SIV	
004	3	HAND WASH SINK	SOIC	
005	3	SOAP DISPENSER	SIO	
012	3	PAPER TOWEL DISPENSER	SOIC	
013	1	CASH REGISTER PACKAGE	SIO	
016	2	INSECT LIGHT	SIV	
800	1	WALL SHELF PACKAGE	SOIC	
801	1	WORK TABLE 60" X 30"	SOIC	
802	1	SHELVING PACKAGE SET	SIO	
803	1	PRE-CHILLER	SIV	FROM SODA VENDOR
805	1	MOBILE WORK TABLE	SIO	
806	1	TABLE WITH SINK	SOIC	
807	1	STAINLESS STEEL COUNTERTOP	SOIC	
808	3	STAINLESS STEEL CABINET	SOIC	
810	1	PIZZA DOUGH TABLE	SIO	
812	3	DOUGH CARTS	SIO	WITHOUT DOUGH TUBS
813	1	PIZZA PREP TABLE	SOIC	SELF-CONTAINED W/ SHELF
815	2	PIZZA PAN RACKS	SIO	
816	1	PIZZA CUTTING TABLE	SOIC	
817	1	HOOD PACKAGE	SIO	FIRE SUPPRESSION SYSTEM BY GC - SEE MECH
819	1	PIZZA SAUCER	SOIC	
821	1	STACKED CONVEYOR OVEN	SOIC	
823	1	HOT DOG COOKER	SIO	
828	1	WORK TABLE 60" X 30"	SOIC	
831	1	SMOOTHIE MACHINE	SIV	
836	1	BEVERAGE COUNTERTOP	SOIC	
837F	1	BEVERAGE COUNTER	SOIC	FUTURE
838	1	WATER FILTER SYSTEM	SOIC	
839	1	WATER BOOSTER PUMP AND SHELF	SIV	WATER STUB BY GC
840	1	STAINLESS STEEL SHELF	SOIC	AT PIZZA PASS- THRU
843	1	CO2 TANK AND REGULATOR	SIV	
844	2	SODA DISPENSER COLLAR	SIV	
844F	1	SODA DISPENSER COLLAR	SIV	FUTURE
845	1	SYRUP RACK	SIV	
846	2	SODA & ICE DISPENSER	SIV	
846F	1	SODA & ICE DISPENSER	SIV	FUTURE
847	2	ICE MACHINE	SIV	
847F	1	ICE MACHINE	SIV	FUTURE
848	2	CONDIMENT COUNTER	SOIC	
849	2	CONDIMENT DISPENSER (4 PUMP)	SIO	WITH LOCKABLE ASSEMBLY
850	2	CONDIMENT DISPENSER (CRANK)	SIO	WITH LOCKABLE ASSEMBLY
851	1	MENU PANEL PACKAGE	SOIC	SEE ELEVATIONS
852	2	STRAW DISPENSER	SIO	
853	4	CUP LID HOLDER	SIV	MOUNTED ON WALL
854	1	NAPKIN DISPENSER (CASE OF 6)	SIO	MOUNTED ON WALL
856	1	SOFT SERVE MACHINE	SIO	GC TO INSTALL PLUGS
858	1	REACH-IN FREEZER	SIO	
865	1	REMOTE PRINTER PACKAGE	SIV	
870	1	MANIFOLD	SIV	
872	9	SEATING PACKAGE	SOIC	
873	6	TRASH UNITS	SOIC	
874	1	MOBILE EQUIPMENT STAND		
875	1	HOT FOOD MERCHANDISER	SIO	
889	1	TABLETOP WARMER	SIO	
891	1	CO2 DETECTOR	SOIC	
892	2	HORN/ STROBE	SIO	EXACT LOCATION BY OWNER
893	1	PIZZA BOX WARMER	SOIC	
894	1	CO2 CENTRAL DISPLAY	SOIC	EXACT LOCATION BY OWNER
895	1	SELF SERVICE KIOSK	SOIC	
897	1	SANDWICH UNIT REFRIGERATOR	SIO	
898	1	WAREWASH LINE WITH 3-COMPARTMENT SINK	SOIC	162" UNIT LENGTH



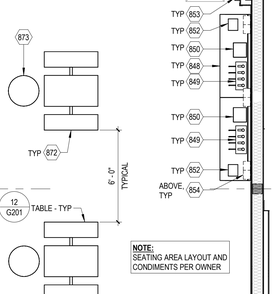
11 FOOD PREP 182 - CENTER WALL

SCALE: 1/4" = 1'-0" 0824



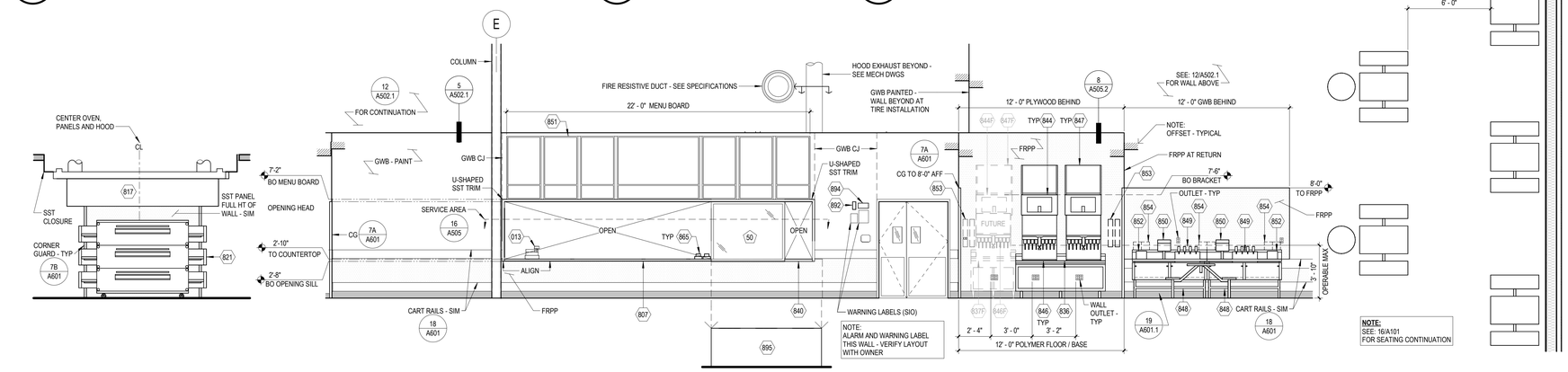
13 BEHIND PIZZA OVEN WALL

SCALE: 1/4" = 1'-0" 1224



14 FOOD PREP 184 - END WALL

SCALE: 1/4" = 1'-0" 0225



16 FOOD PREP 184 - OVEN WALL

SCALE: 1/4" = 1'-0" 0423

17 VIEW FROM MAIN SALES

SCALE: 1/4" = 1'-0" 0625

19 FOOD SERVICE EQUIPMENT PLAN

SCALE: 1/4" = 1'-0" 0925

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

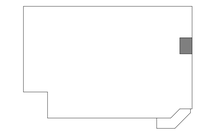
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

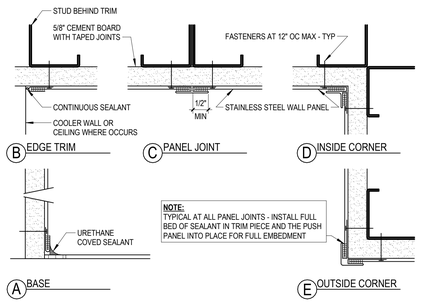
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

FOOD SERVICE EQUIPMENT PLANS AND ELEVATIONS

A505.1

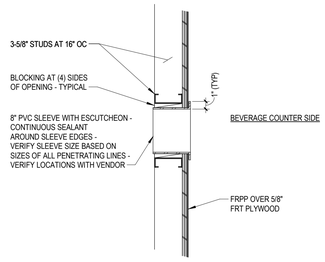
Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt
12/22/2025 9:42:01 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT INCLUDES
LESS PERMIT, MISSOURI
03/26/2026 4:03:48



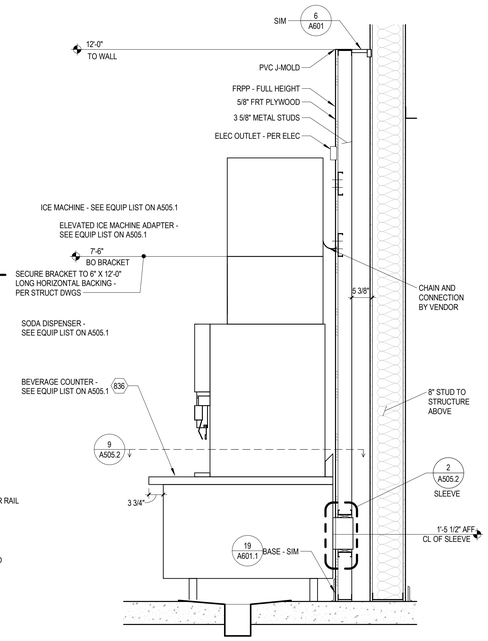
1 STAINLESS STEEL PANEL JOINTS

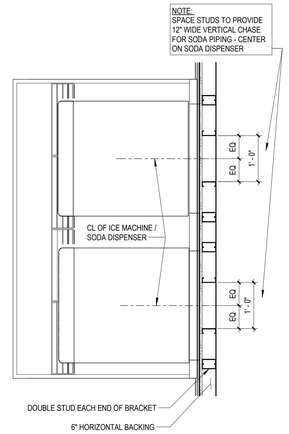
SCALE: 6" = 1'-0" 0225

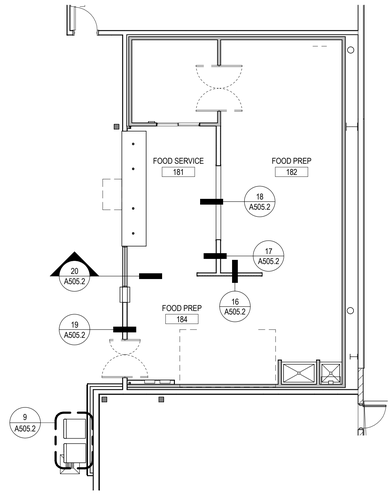


2 SLEEVE THRU WALL AT SODA DISPENSER

SCALE: 1 1/2" = 1'-0" 0723

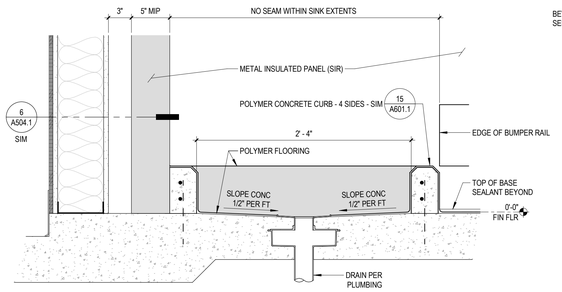






10 FOOD SERVICES KEY PLAN

SCALE: 1/8" = 1'-0" 0824



7 BUILT-IN MOP SINK (LOOKING AT BACK WALL)

SCALE: 1 1/2" = 1'-0" 0623

8 AT SODA

SCALE: 3/4" = 1'-0" 0623

9 STUD FRAMING AT SODA - PLAN VIEW

SCALE: 3/4" = 1'-0" 1117

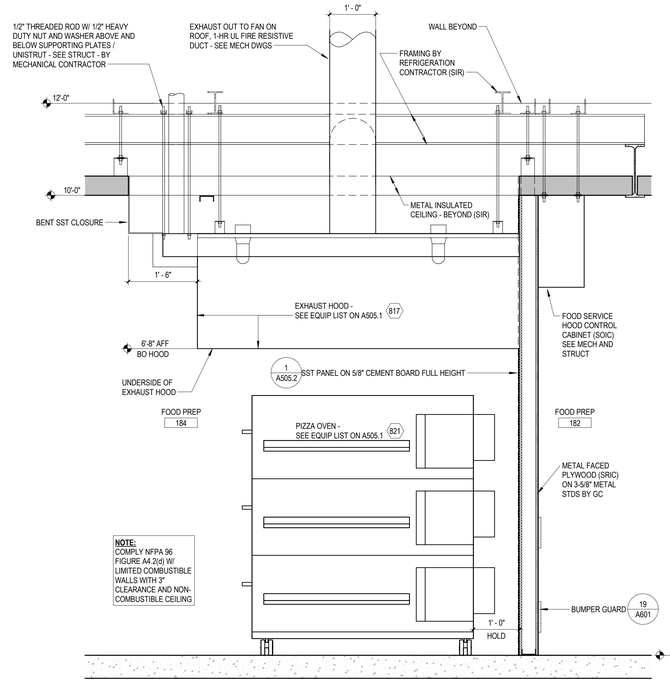
10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

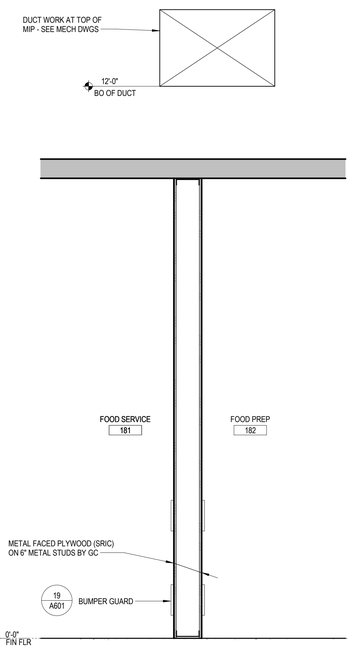
MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT



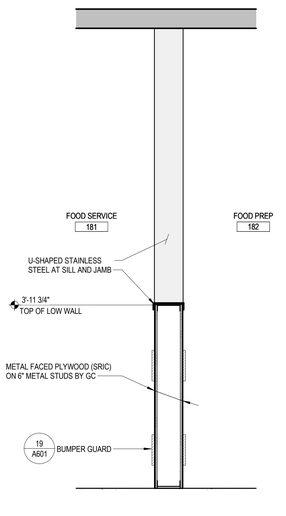
16 AT PIZZA HOOD

SCALE: 3/4" = 1'-0" 0225



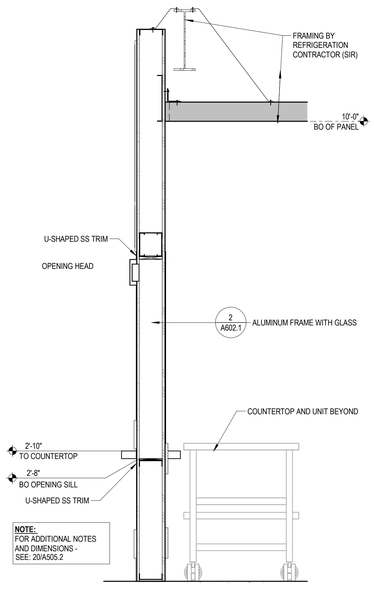
17 AT CENTER WALL - FULL HEIGHT

SCALE: 3/4" = 1'-0" 0623



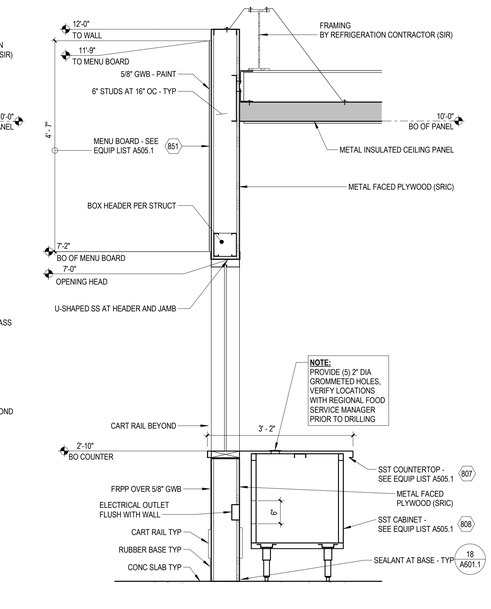
18 AT CENTER WALL - LOW HEIGHT

SCALE: 3/4" = 1'-0" 0623



19 AT SERVICE WINDOW

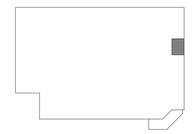
SCALE: 3/4" = 1'-0" 1124



20 AT SALES COUNTER

SCALE: 3/4" = 1'-0" 1124

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

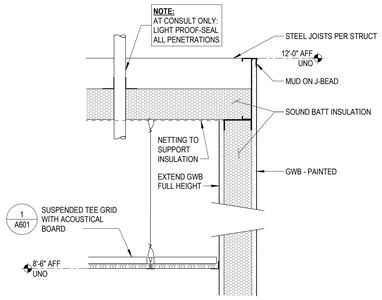
△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

FOOD SERVICE WALL SECTIONS

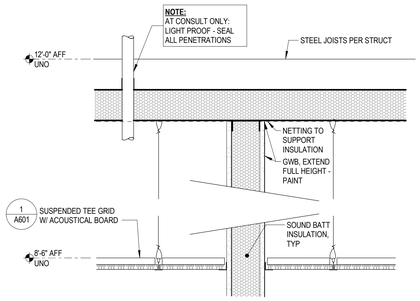
A505.2

12/22/2025 9:42:03 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt



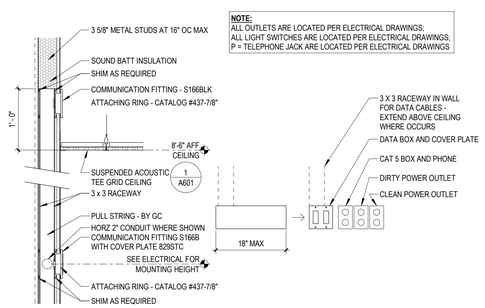
1 ACOUSTIC WALL / CEILING AT FASCIA

SCALE: 1 1/2" = 1'-0" 0823



2 ACOUSTIC WALL / CEILING

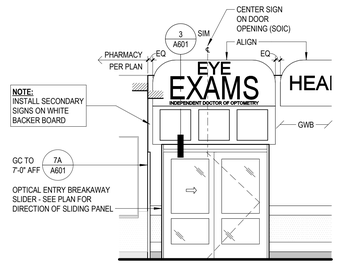
SCALE: 1 1/2" = 1'-0" 0823



KEY

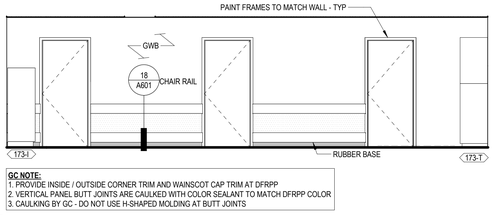
3 DATA CHASE AND OUTLETS

SCALE: 1" = 1'-0" 0823



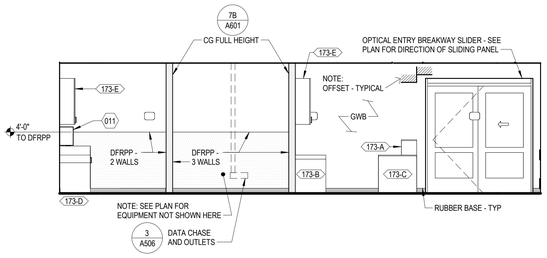
6 OPTICAL OFFICE ENTRY

SCALE: 1/4" = 1'-0" 0325



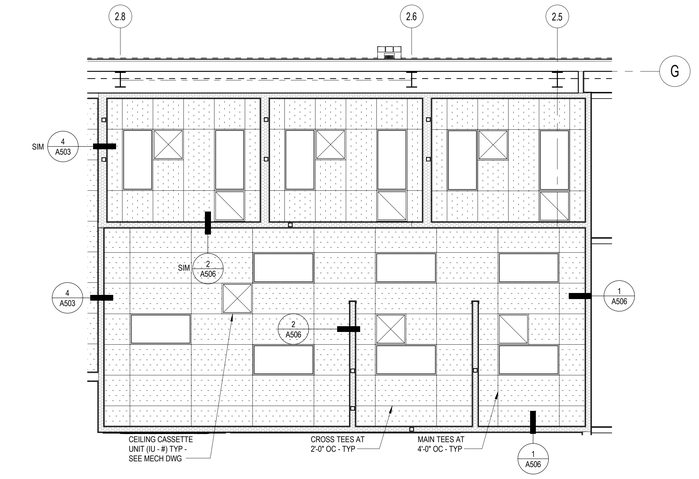
7 OPTICAL OFFICE SIDE WALL

SCALE: 1/4" = 1'-0" 0724



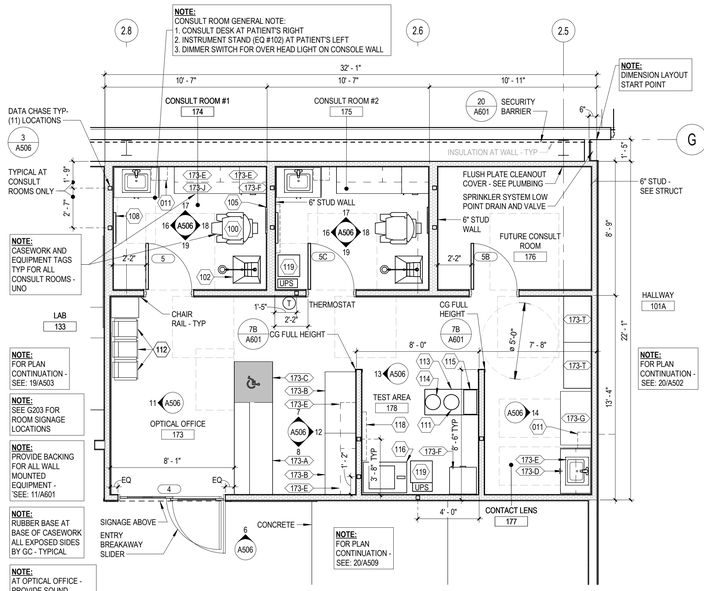
8 RECEPTION, TEST AREA AND CONTACT LENS FRONT WALL

SCALE: 1/4" = 1'-0" 1124



10 OPTICAL REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0" 1124



15 OPTICAL FLOOR PLAN

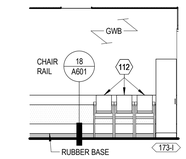
SCALE: 1/4" = 1'-0" 1025

EQUIPMENT LEGEND - OPTICAL OFFICE

EQ NO	QTY	DESCRIPTION	SUPPLY / INSTALL	REMARKS
011	3	PAPER TOWEL DISPENSER	SOIC	
100	2	CONSULT CHAIR	SIO	
102	2	INSTRUMENT STAND	SIO	
105	2	DIGITAL SCREEN	SIO	
108	2	MIRROR	SIO	CENTER ON CONSULT CHAIR
111	1	LENSOMETER	SIO	
112	3	CHAIR	SIO	RECEPTION ROOM
113	1	INSTRUMENT TABLE	SIO	MOVEABLE - DO NOT SECURE TO WALL
114	1	VISUAL FIELDS	SIO	
115	1	3 IN 1 - REFRACTOR, KERATOMETER, TANOMETER	SIO	
116	1	OPTOMAP	SIO	WITH STAND
118	2	43" MONITOR WITH WALL BRACKET	SOIC	
119	2	TELE-OPTOMETRY EQUIPMENT CABINET WITH UPS	SIO	

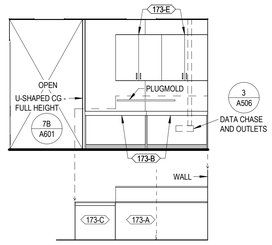
CASEWORK LEGEND - OPTICAL OFFICE (SOIC)

CASE	QTY	DESCRIPTION	REMARKS
173-A	1	72" RECEPTION DESK	SEE OPTICAL OFFICE CASEWORK LEGEND
173-B	2	48" RECEPTION TABLE	
173-C	1	ADA RECEPTION DESK	
173-D	3	36" SINK BASE	W/ SINK AND FAUCET
173-E	7	36" WALL CABINET	MOUNT BOT EDGE 54" AFF
173-F	3	24" BASE CABINET	
173-G	1	42" CONTACT LENS TABLE	MOVABLE
173-I	1	OPTICAL COAT CLOSET	
173-J	2	CONSULT DESK	
173-T	2	36" DRAWER CABINET	



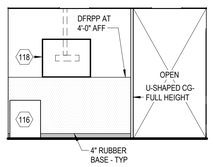
11 RECEPTION AREA SIDE WALL

SCALE: 1/4" = 1'-0" 1124



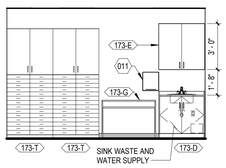
12 RECEPTION AREA BACK AT SIDE WALL

SCALE: 1/4" = 1'-0" 1124



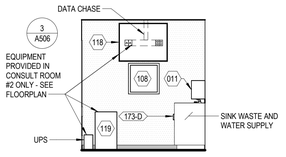
13 TEST AREA WALL WITH MONITOR

SCALE: 1/4" = 1'-0" 1124



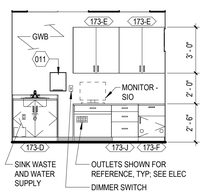
14 CONTACT LENS SIDE WALL

SCALE: 1/4" = 1'-0" 1124



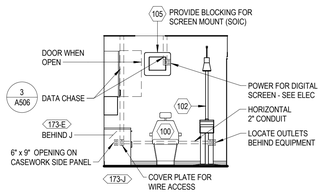
16 CONSULT ROOM #1 AND #2 FRONT WALL

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



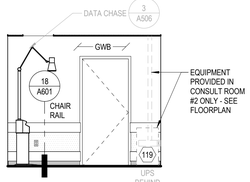
17 CONSULT ROOM #1 AND #2 BACK WALL

SCALE: 1/4" = 1'-0" 1124



18 CONSULT ROOM #1 AND #2 SIDE WALL 1

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



19 CONSULT ROOM #1 AND #2 SIDE WALL

SCALE: 1/4" = 1'-0" 1124

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COSTCO PROJECT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:48

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

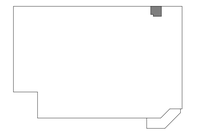
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2
MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY:Author
12/22/25

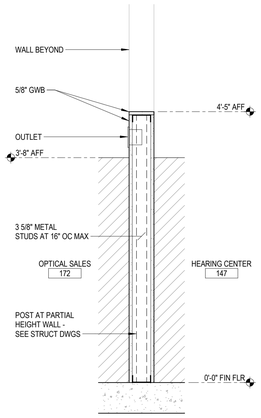
OPTICAL OFFICE PLANS, ELEVATIONS AND DETAILS

A506

12/22/2025 9:42:07 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

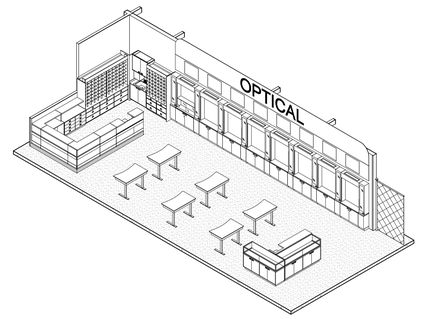
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COSTCO PROJECT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:48

12/22/2025 9:42:11 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt



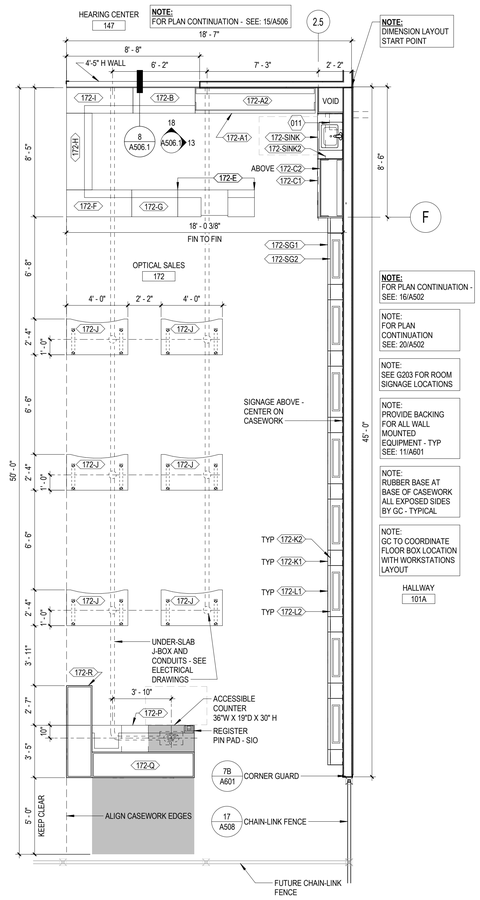
8 LOW WALL BETWEEN OPTICAL AND HEARING AID CENTER

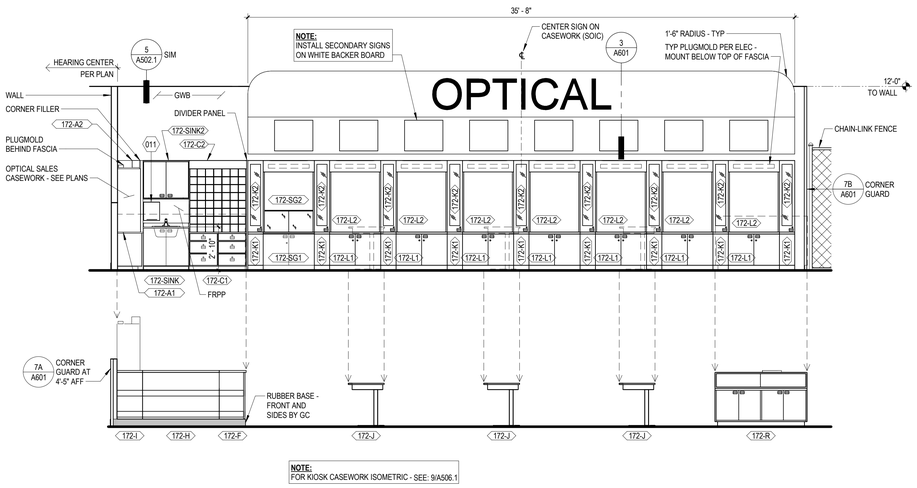
SCALE: 1" = 1'-0" 0824



9 OPTICAL KIOSK AND DISPLAY CASEWORK

SCALE: NOT TO SCALE

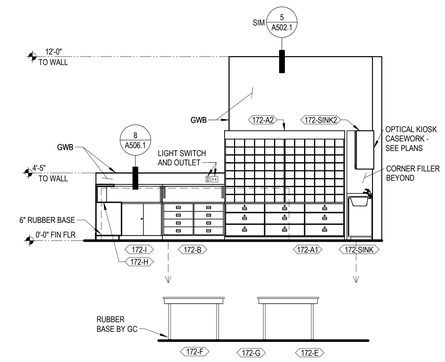




NOTE: FOR KIOSK CASEWORK ISOMETRIC - SEE: 9/A506.1

13 OPTICAL SALES AT FRAME BOARDS

SCALE: 1/4" = 1'-0" 0225



18 OPTICAL SALES KIOSK

SCALE: 1/4" = 1'-0" 0225

15 OPTICAL SALES FLOOR PLAN

SCALE: 1/4" = 1'-0" 1025

EQUIPMENT SCHEDULE - OPTICAL SALES & DISPLAY

EQ NO	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
011	1	PAPER TOWEL DISPENSER	SOIC	

CASEWORK LEGEND - OPTICAL KIOSK AND DISPLAY (SOIC)

CASE	QTY	DESCRIPTION	REMARKS
172-A1	1	BACKWALL CABINET - SMALL MATRIX DRAWERS BASE	
172-A2	1	BACKWALL CABINET - SMALL MATRIX	
172-B	1	KIOSK DRAWER BASE	
172-C1	1	BACKWALL CABINET - 45° MATRIX DRAWER BASE	
172-C2	1	BACKWALL CABINET - 45° MATRIX UPPER	
172-E	1	REGISTER	
172-F	1	KIOSK CORNER CABINET	
172-G	1	KIOSK WORK DESK	
172-H	1	KIOSK DRAWER BASE	
172-I	1	KIOSK SLIDING DOOR BASE	
172-J	6	ACCESSIBLE COSTUMER SERVICE STATION	
172-K1	9	FRAME DISPLAY CABINET - MIRROR CAB LOWER	
172-K2	9	FRAME DISPLAY CABINET - MIRROR CAB UPPER	
172-L1	7	FRAME DISPLAY CABINET - FRAME BOARD LOWER	
172-L2	7	FRAME DISPLAY CABINET - FRAME BOARD UPPER	
172-P	1	ACCESSIBLE REGISTER	
172-Q	1	DESIGNER FRAME CASE - 80"	
172-R	1	DESIGNER FRAMES CASE - 72"	
172-SG1	1	FRAME DISPLAY CABINET - FRAME BOARD LOWER	
172-SG2	1	FRAME DISPLAY CABINET - FRAME BOARD UPPER	
172-SINK	1	KIOSK SINK CABINET	
172-SINK2	1	BACKWALL CABINET - WALL CABS	

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

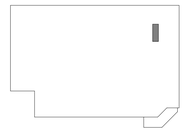
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

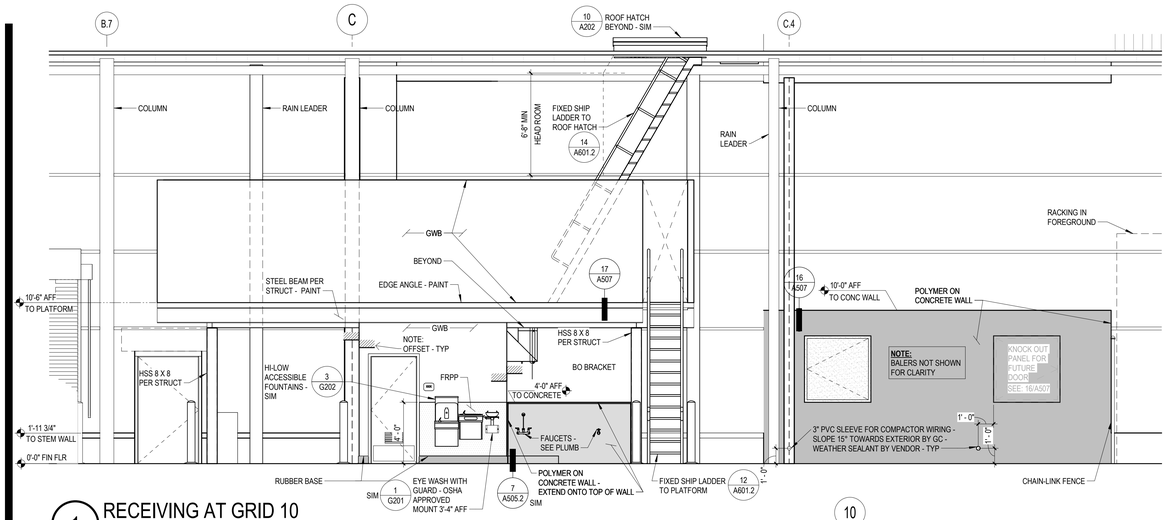
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

OPTICAL SALES PLAN, ELEVATIONS AND DETAILS

A506.1

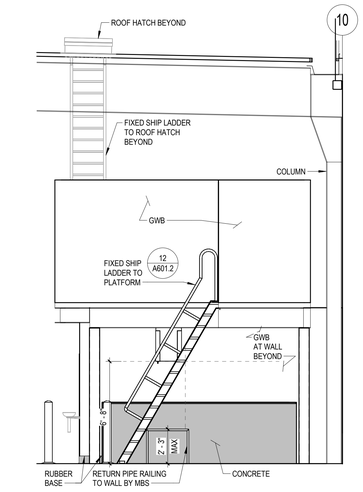
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COSTCO WHOLESALE
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:48

12/22/2025 9:42:16 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt



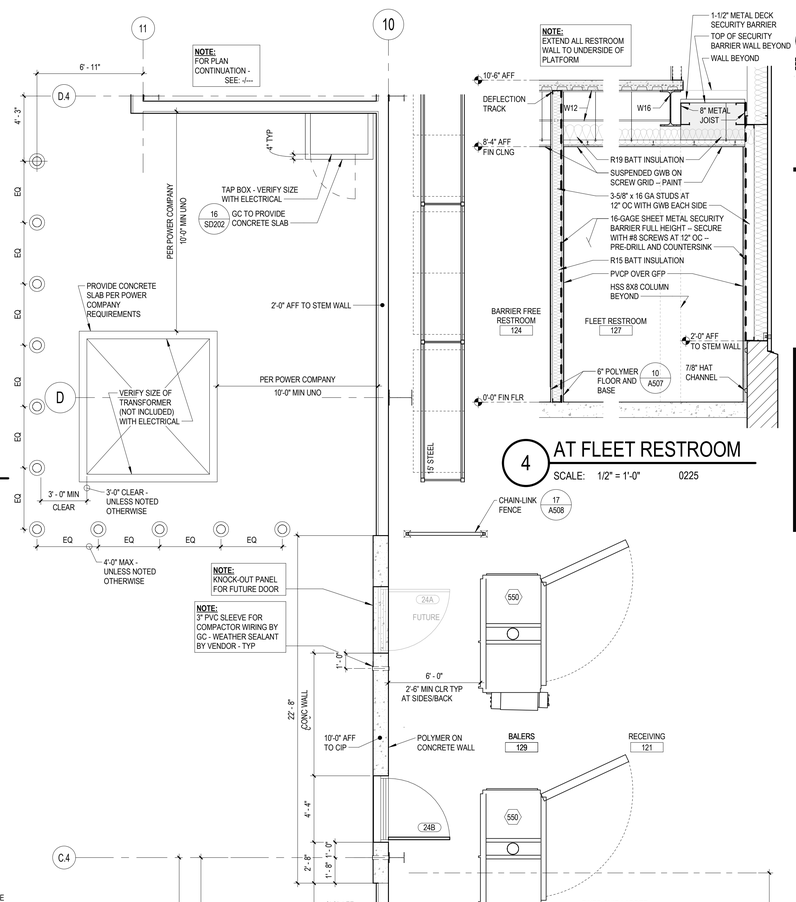
1 RECEIVING AT GRID 10

SCALE: 1/4" = 1'-0" 0225



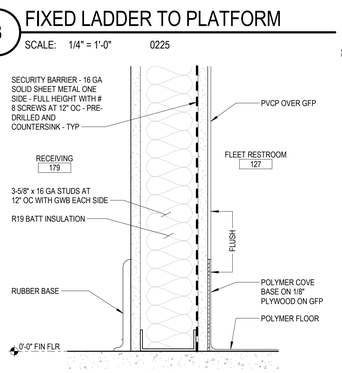
3 FIXED LADDER TO PLATFORM

SCALE: 1/4" = 1'-0" 0225



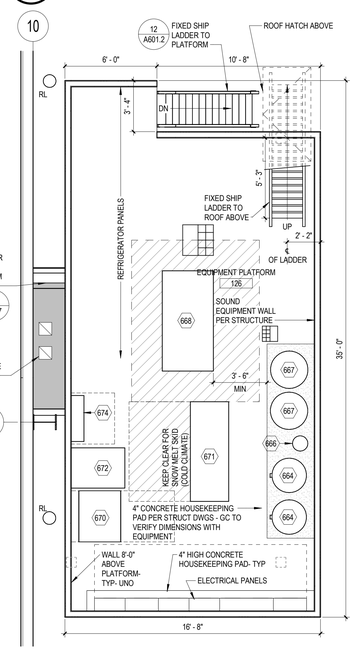
4 AT FLEET RESTROOM

SCALE: 1/2" = 1'-0" 0225



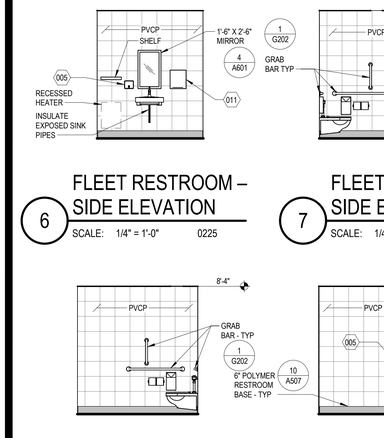
10 RESTROOM BASE

SCALE: 3" = 1'-0" 0225



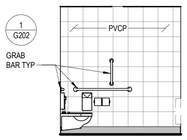
14 RESTOOM REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0" 0225



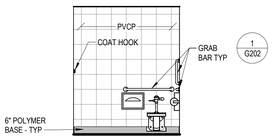
6 FLEET RESTROOM – SIDE ELEVATION

SCALE: 1/4" = 1'-0" 0225



7 FLEET RESTROOM – SIDE ELEVATION

SCALE: 1/4" = 1'-0" 0225

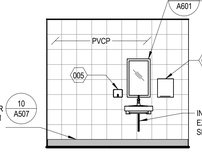


8 FLEET RESTROOM – BACK ELEVATION

SCALE: 1/4" = 1'-0" 0225

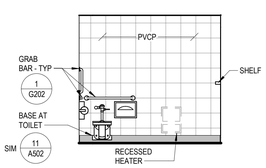
11 BARRIER FREE RESTROOM SIDE ELEVATION

SCALE: 1/4" = 1'-0" 0225



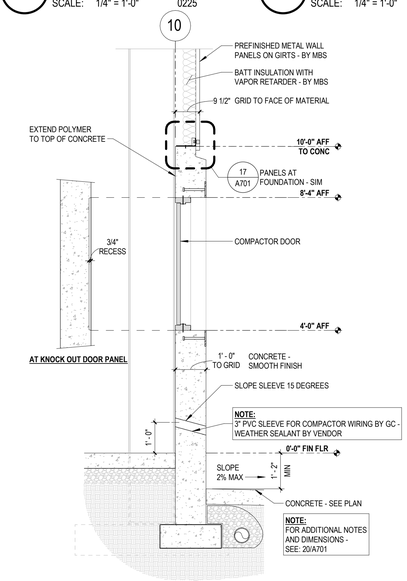
12 BARRIER FREE RESTROOM SIDE ELEVATION

SCALE: 1/4" = 1'-0" 0225



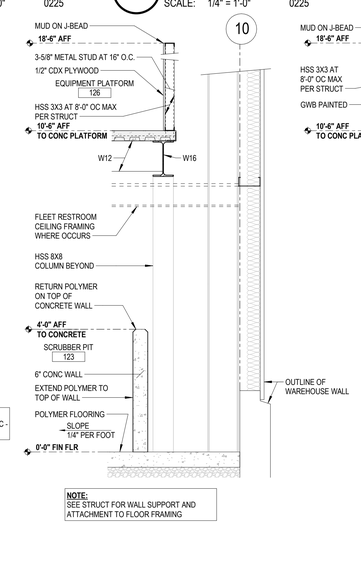
13 BARRIER FREE RESTROOM BACK ELEVATION

SCALE: 1/4" = 1'-0" 0225



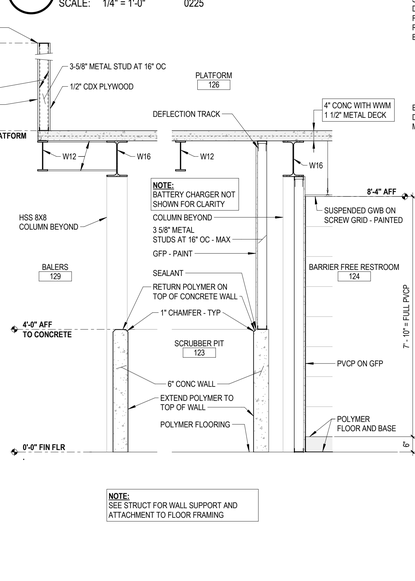
16 AT COMPACTOR

SCALE: 1/2" = 1'-0" 0424



17 SCRUBBER WALL AT GRID 10

SCALE: 1/2" = 1'-0" 0125



18 WALL AT SCRUBBER PIT/ RESTROOM

SCALE: 1/2" = 1'-0" 0225

19 EQUIPMENT PLATFORM

SCALE: 1/4" = 1'-0" 0625

EQUIPMENT LIST - EQUIPMENT PLATFORM

EQ NO	QTY	DESCRIPTION	SUPPLY-IN STALL	REMARKS
664	2	WATER HEATERS	SIC	
666	1	THERMAL EXPANSION TANK	SIC	
667	2	PRE-HEATER TANK	SOIC	
668	1	EVAC SYSTEM	SIO	
670	1	TRANSFORMER T1	SIC	SEE ELECTRICAL
671	1	AMGS SKID (SNOW MELT SYSTEM)	SIO	
672	1	IDF	SIC	SEE ELECTRICAL DWGS
674	1	ROUTER ALARM	SIO	PROVIDED BY REFRIGERATION

EQUIPMENT LEGEND - RECEIVING

EQ NO	QTY	DESCRIPTION	SUPPLY/ INSTALL	REMARKS
005	2	SOAP DISPENSER	SIO	
011	2	PAPER TOWEL DISPENSER	SOIC	
423	1	GREASE RECOVERY STORAGE TANK	SOIC	SEE A703 FOR LOCATION
550	2	CARDBOARD / PLASTIC BALER	SOIC	
616	1	BATTERY CHARGER AND BRACKETS	SOIC	

20 RECEIVING CORE PLAN

SCALE: 1/4" = 1'-0" 0625

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

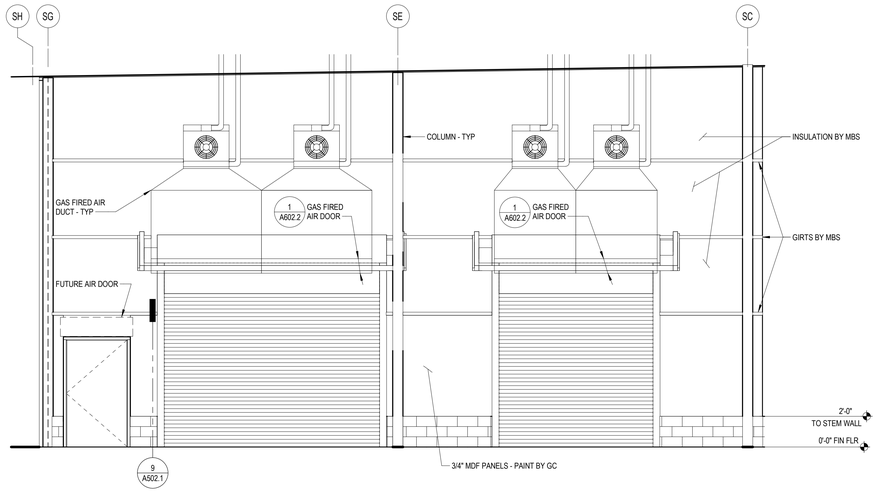
△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

RECEIVING CORE PLANS, ELEVATIONS, SECTIONS, AND DETAILS

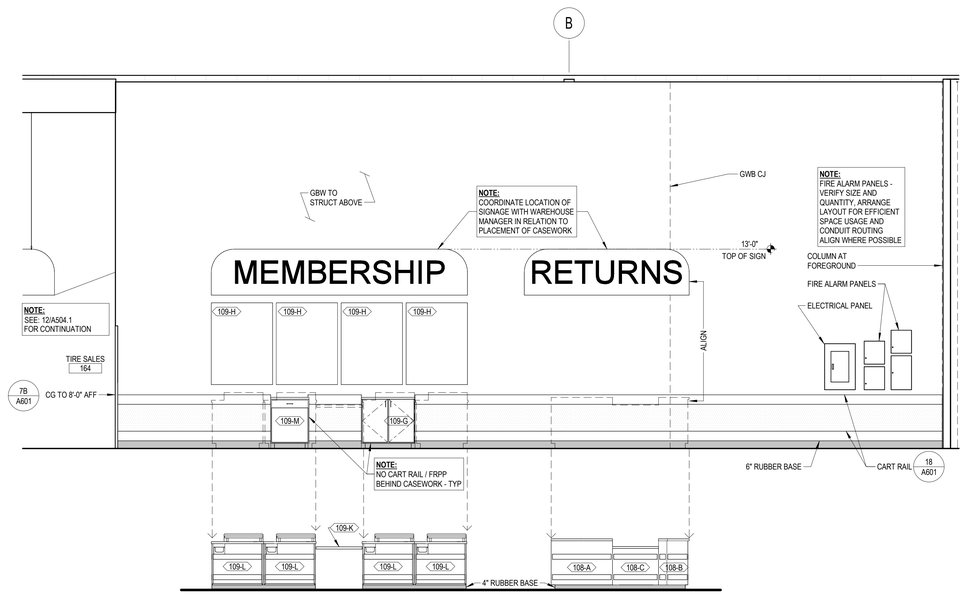
A507

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF THE BUILDING SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:48



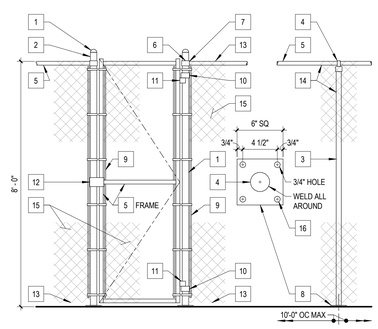
7 MAIN ENTRANCE SKEW WALL

SCALE: 1/4" = 1'-0" 1124



12 MAIN EXIT AND RETURNS AND MEMBERSHIP COUNTERS FRONT

SCALE: 1/4" = 1'-0" 1124

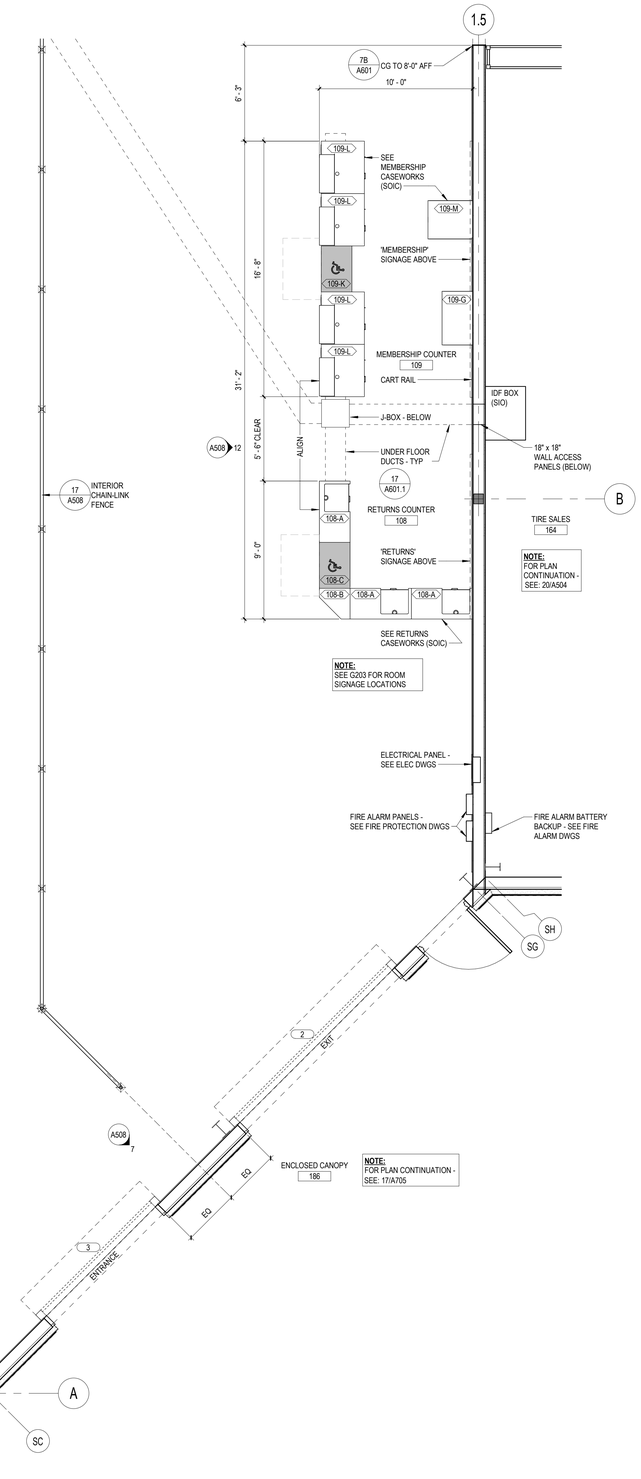


INTERIOR CHAIN LINK FENCE KEY NOTES

1 TERMINAL POST CAP
2 2 1/2" NOM SCHD 40 GALV TERMINAL POST
3 2" NOM SCHD 40 GALV LINE POST
4 LINE POST TOP
5 1 1/2" NOM SCHD 40 GALV TOP RAIL
6 RAIL END BAND
7 RAIL END
8 BASE PLATE WITH (4) FASTENERS
9 TENSION BAND
10 GATE FRAME HINGE
11 GATE POST HINGE
12 GATE FORK LATCH
13 KNUCKLE SELVAGE
14 FENCE TIE -- NO ALUMINUM TIES PERMITTED
15 9-GAGE X 2" DIAMOND MESH STEEL FABRIC - ALUMINUM MISCHMETAL COATED FABRIC
16 5/8" DIA ALL-THREAD WITH HILTI HIT-HY 200-R ADHESIVE (EMBED 5')

17 INTERIOR CHAIN LINK FENCE / GATE

SCALE: 1/2" = 1'-0" 0824



CASEWORK LEGEND - RETURNS (SOIC)				
CASE	QTY	DESCRIPTION	SIZE	REMARKS
108-A	3	REFUND COUNTER	48" x 24"D x 40"H	
108-B	1	CORNERFILL	34"W x 24"D x 40"H	
108-C	1	ADA COUNTER	40"W x 24"D x 34"H	ADA ACCESSIBLE

CASEWORK LEGEND - MEMBERSHIP (SOIC)				
CASE	QTY	DESCRIPTION	SIZE	REMARKS
109-G	1	WALL CABINET	42"W x 24" x 34" H	
109-H	4	GRAPHICS WALL PANEL	48"W x 64"H	WALL MOUNTED
109-K	1	ADA COUNTER	36"W x 24"D x 32"H	ADA ACCESSIBLE
109-L	4	MEMBERSHIP COUNTER	40"W x 35"D x 34"H	
109-M	1	PRINTER CABINET	30"W x 35"D x 40"H	

19 RETURNS AND MEMBERSHIP COUNTER PLAN

SCALE: 1/4" = 1'-0" 0925

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

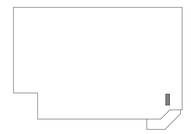
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

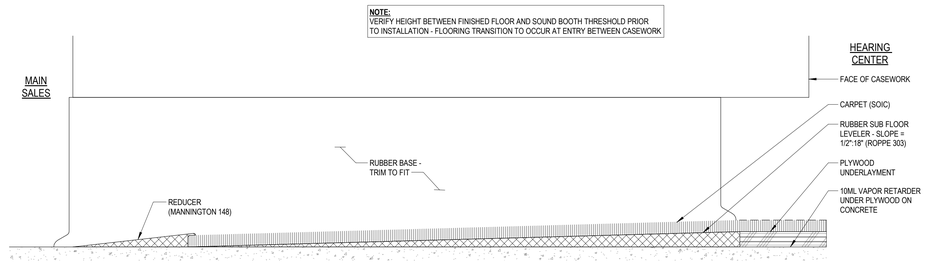
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

RETURNS AND MEMBERSHIP COUNTERS PLAN AND ELEVATIONS

A508

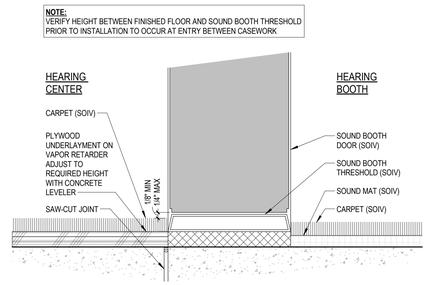
12/22/2025 9:42:19 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BUILDING SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:48



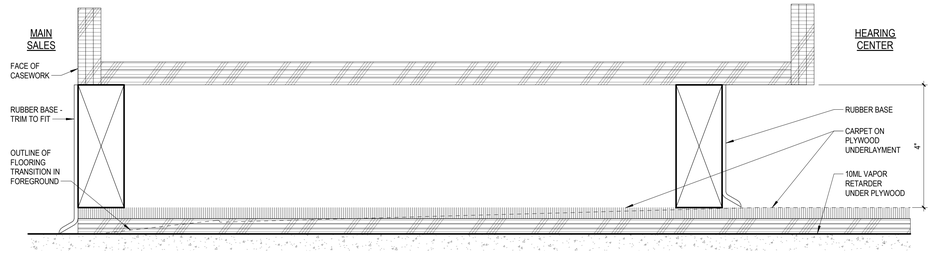
3 CARPET TRANSITION

SCALE: 6" = 1'-0" 0322



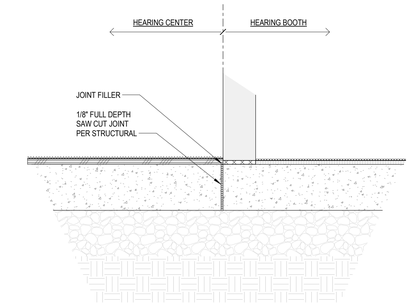
5 THRESHOLD AT HEARING BOOTH

SCALE: 6" = 1'-0" 0322



8 CASEWORK SECTION AT BASE

SCALE: 6" = 1'-0" 0322

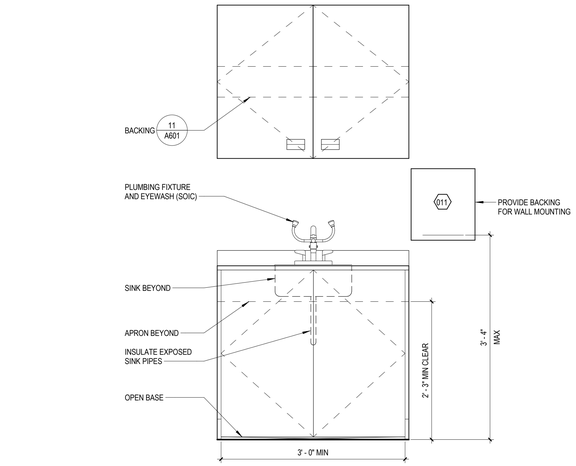


9 SAW-CUT JOINT AT HEARING BOOTH

SCALE: 1 1/2" = 1'-0" 0617

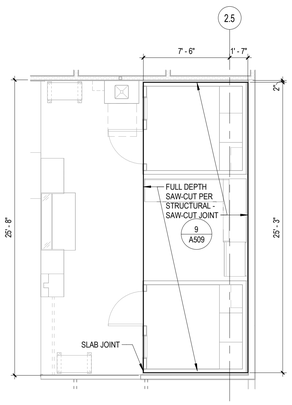
1 MECHANICAL CHASE WALL

SCALE: 1 1/2" = 1'-0" 0825



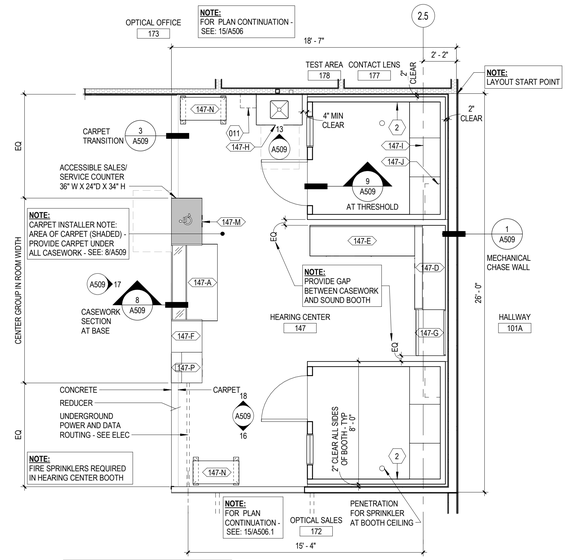
13 ACCESSIBLE SINK

SCALE: 1" = 1'-0" 0124



KEY PLAN
14 SAW-CUT JOINT LAYOUT

SCALE: 3/16" = 1'-0" 1125



NOTE:
ALL TRADES:
MAKE NO PENETRATIONS INTO PREFABRICATED BOOTH EXCEPT AS APPROVED BY THE MANUFACTURER (DELETE THIS NOTE FOLLOWING CONFIRMATION)

16 HEARING CENTER SIDE WALL

SCALE: 1/4" = 1'-0" 0225

17 HEARING CENTER FRONT

SCALE: 1/4" = 1'-0" 1125

18 HEARING CENTER SIDE WALL AT SIGN

SCALE: 1/4" = 1'-0" 0225

EQUIPMENT LEGEND - HEARING CENTER

EQ NO	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
2	2	SOUND BOOTH	SOIV	
011	1	PAPER TOWEL DISPENSER	SOIC	

CASEWORK LEGEND - HEARING CENTER (SOIC)

CASE	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
147-A	1	RECEPTION/DISPLAY	SOIC	#10853
147-D	1	66" WORKSTATION	SOIC	#10849
147-E	1	82" WORKSTATION	SOIC	#10848
147-F	1	PRINTER CABINET	SOIC	#3574
147-G	1	CHARGING CABINET	SOIC	#10851
147-H	1	SINK CABINET	SOIC	#10850
147-I	2	BOOTH LOWER	SOIC	3 PIECES
147-J	2	BOOTH UPPER	SOIC	ALIGN WITH BOOTH DOOR
147-M	1	REGISTER	SOIC	#2792
147-N	2	ADJUSTABLE DESK	SOIC	#10874 / #10852
147-P	1	24" STAND UP WORKSTATION	SOIC	#111730 WITH ADJ MONITOR STAND LOOSE

20 HEARING CENTER ENLARGED PLAN

SCALE: 1/4" = 1'-0" 1125

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

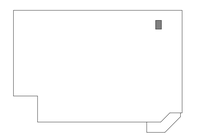
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

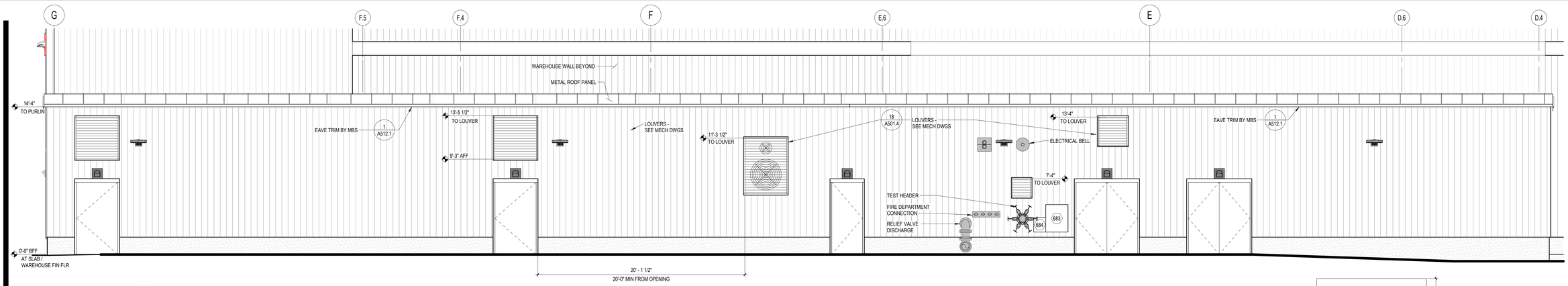
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

HEARING CENTER PLAN, ELEVATIONS, AND DETAILS

A509

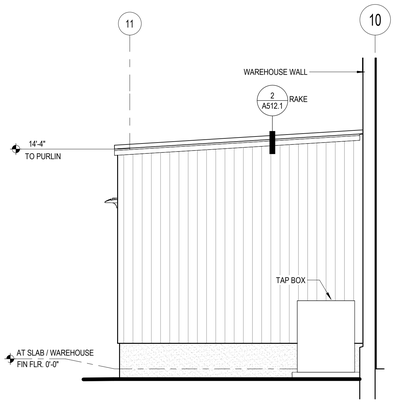
12/22/2025 9:42:22 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT INCLUDE SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:48



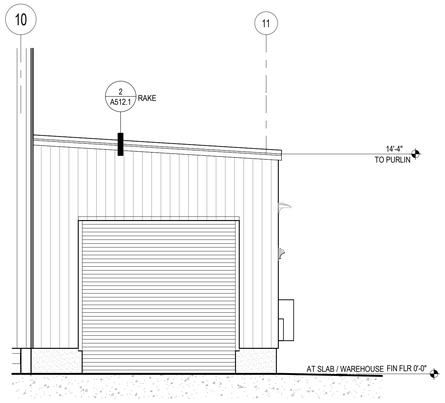
1 BACK ELEVATION

SCALE: 1/4" = 1'-0" 0225



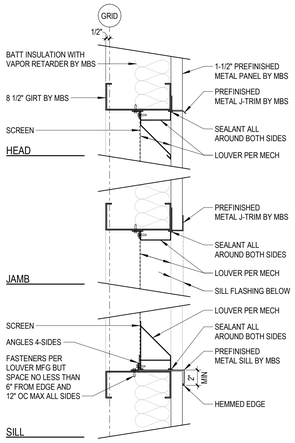
6 SIDE ELEVATION

SCALE: 1/4" = 1'-0" 0225 (AT MSB ROOM)



7 SIDE ELEVATION

SCALE: 1/4" = 1'-0" 0225 (AT MECHANICAL)

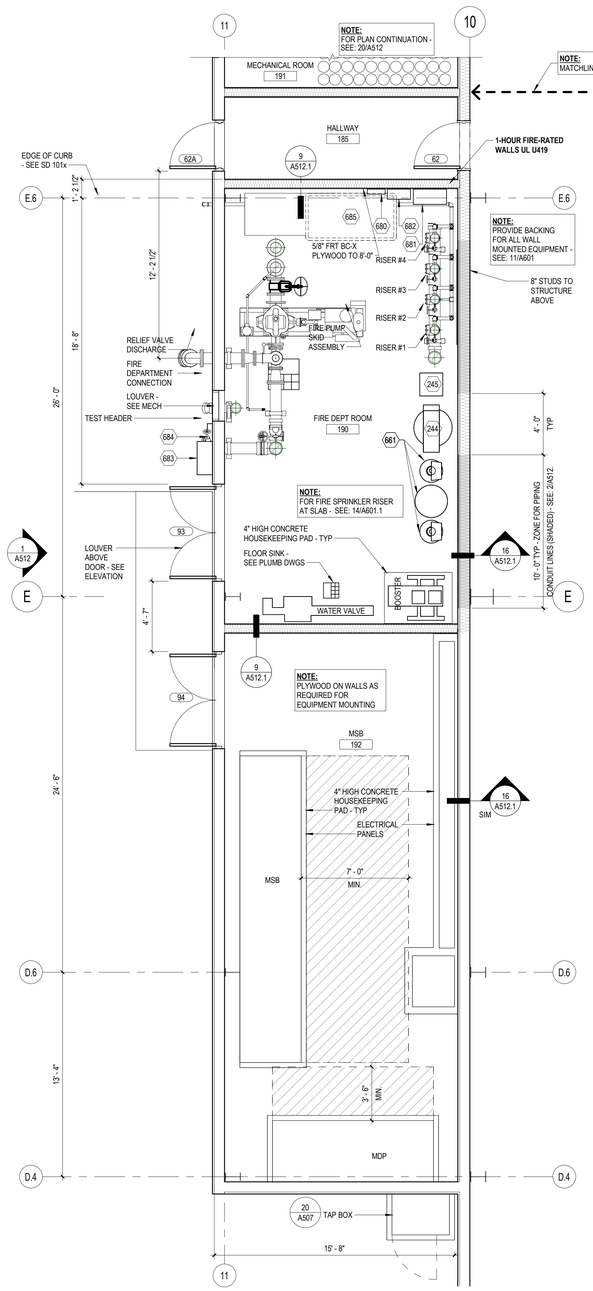


11 LOUVER AT EXTERIOR WALL

SCALE: 1 1/2" = 1'-0" 0125

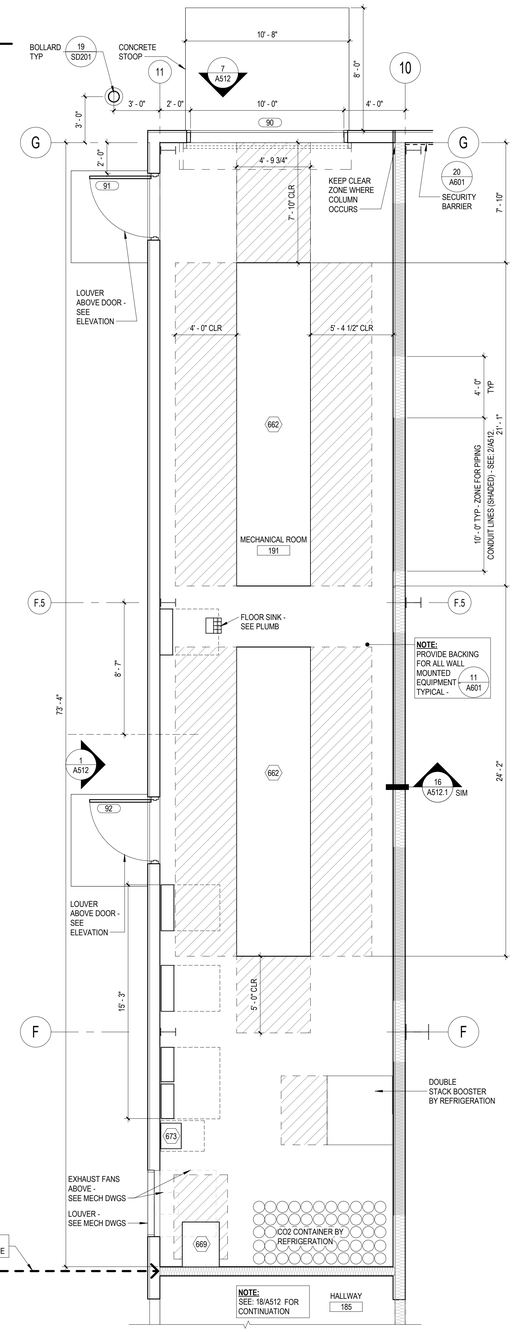
EQUIPMENT LEGEND - FIRE DEPARTMENT ROOM - ENCLOSED CANOPY				
EQ NO	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
244	1	AIR COMPRESSOR	SOIC	BAKERY EQUIPMENT
245	1	AIR DRYER	SOIC	BAKERY EQUIPMENT
661	1	WATER CONDITIONER	SOIC	
680	1	SPARE SPRINKER HEAD CABINET	SIC	
681	1	PUMP CONTROLLER	SIC	
682	1	JOCKEY PUMP CONTROLLER	SIC	
683	1	FUEL SPILL CONTAINER	SIC	
684	1	VISUAL ALARM	SIC	
685	1	DOUBLE WALL DIESEL TANK	SIC	

EQUIPMENT LEGEND - MECHANICAL ROOM - ENCLOSED CANOPY				
EQ NO	QTY	DESCRIPTION	SUPPLY-INSTALL	REMARKS
662	2	COMPRESSOR RACKS	SIO	WITH DRIP PANS
669	1	WORK STATION	SIC	
673	1	LEAK DETECTION	SIO	PROVIDED BY REFRIGERATION
675	5	REFRIGERATOR PANELS	SIO	PROVIDED BY REFRIGERATION



18 ENLARGED FIRE DEPT ROOM PLAN

SCALE: 1/4" = 1'-0" 1124



20 ENLARGED MECHANICAL ROOM PLAN

SCALE: 1/4" = 1'-0" 1224

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

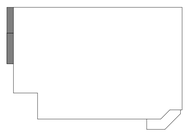
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

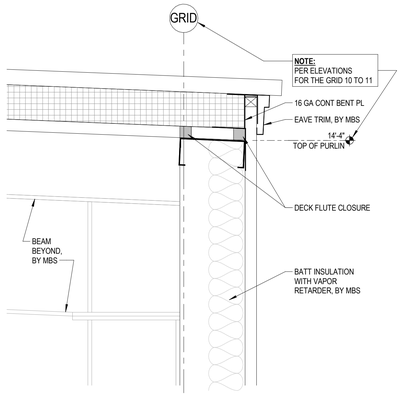
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

MECHANICAL AND FIRE DEPT ROOM PLAN, ELEVATIONS, AND DETAILS

A512

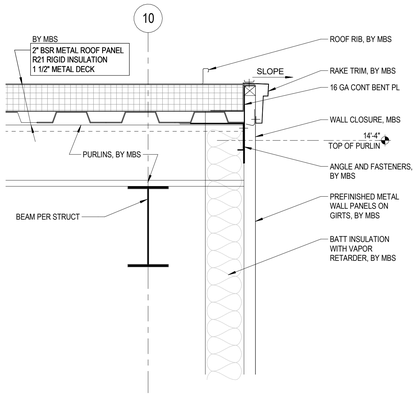
12/22/2025 9:42:26 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
GOVERNING AGENCIES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:49



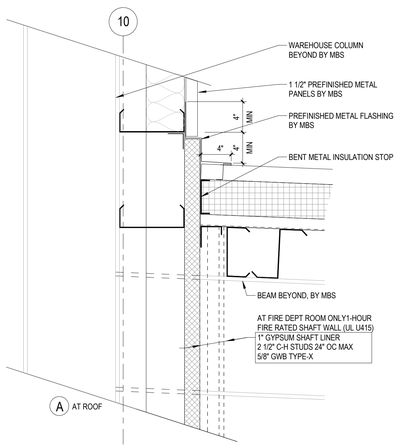
1 EAVE

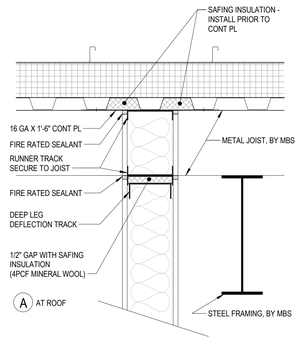
SCALE: 1 1/2" = 1'-0" 0725

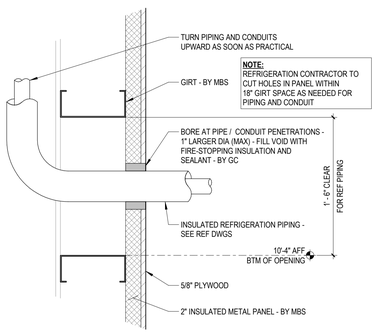


2 RAKE

SCALE: 1 1/2" = 1'-0" 0725

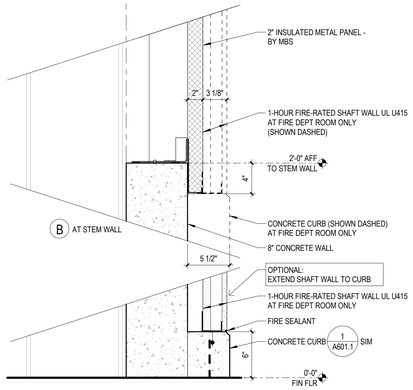






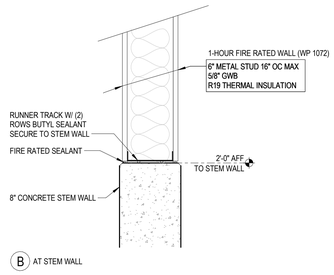
5 REFRIGERATION PIPE OPENING

SCALE: 1 1/2" = 1'-0" 1024 (FIRE SPRINKLER PIPE SIMILAR)



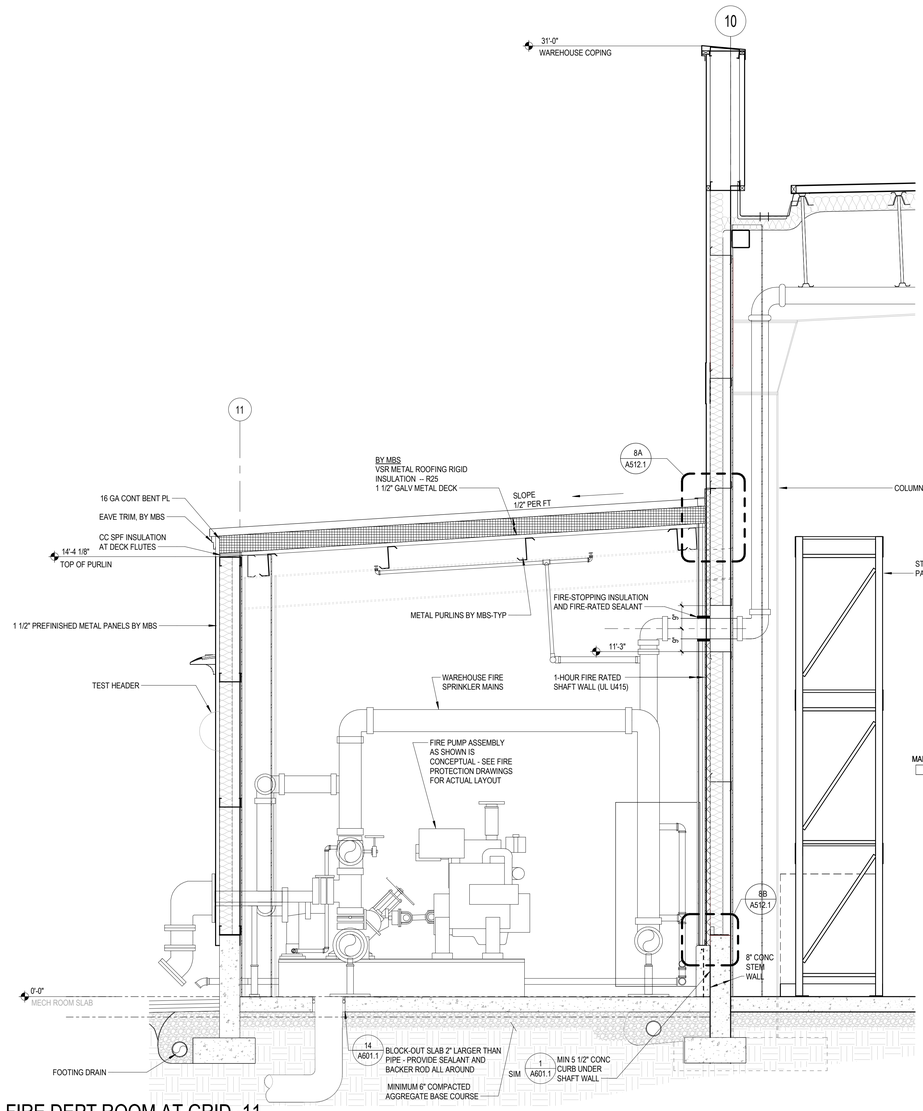
8 AT GRID 10

SCALE: 1 1/2" = 1'-0" 0625



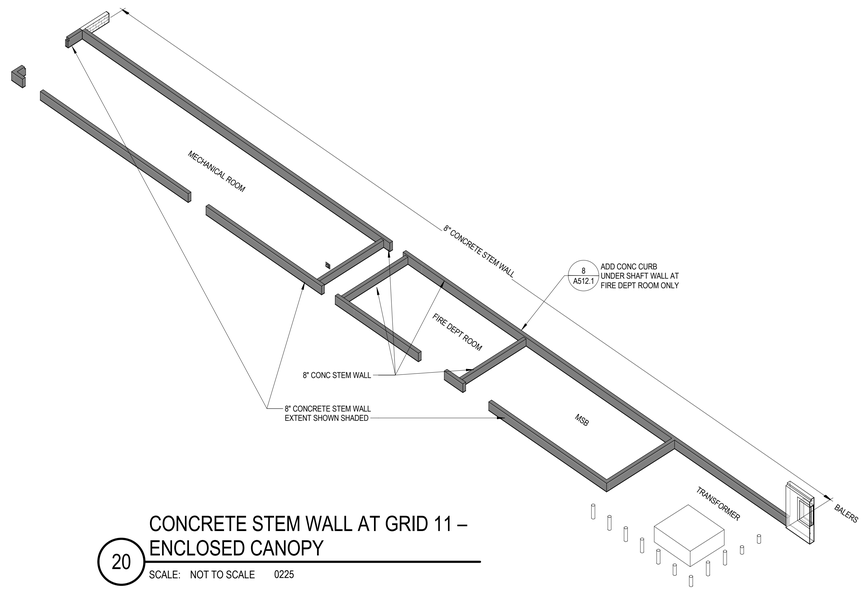
9 FIRE DEPT/ MECHANCAL/MSB ROOM

SCALE: 1 1/2" = 1'-0" 0225



16 FIRE DEPT ROOM AT GRID -11

SCALE: 1/2" = 1'-0" 0725



20 CONCRETE STEM WALL AT GRID 11 – ENCLOSED CANOPY

SCALE: NOT TO SCALE 0225

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

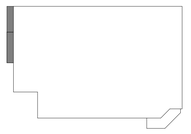
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

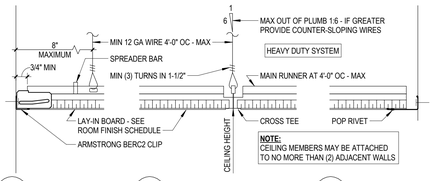
△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY:Author
12/22/25

MECHANICAL,FIRE DEPT AND MSB ROOM SECTION AND DETAILS

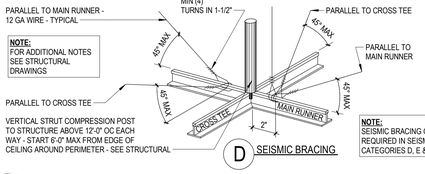
A512.1

12/22/2025 9:42:28 AM Autodesk Docs://Lee's Summit,MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt



NOTE:
CEILING MEMBERS MAY BE ATTACHED TO NO MORE THAN (2) ADJACENT WALLS

A UNATTACHED WALL | B MAIN RUNNERS & CROSS TEES | C ATTACHED WALL



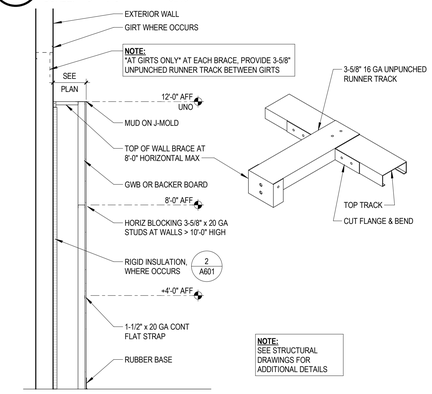
NOTE:
FOR ADDITIONAL NOTES SEE STRUCTURAL DRAWINGS

NOTE:
SEISMIC BRACING ONLY REQUIRED IN SEISMIC CATEGORIES D, E & F

D SEISMIC BRACING

1 SUSPENDED TEE GRID CEILING

SCALE: 3" = 1'-0" 0213



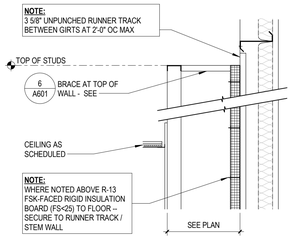
NOTE:
AT GIRTS ONLY AT EACH BRACE, PROVIDE 3-5/8" UNPUNCHED RUNNER TRACK BETWEEN GIRTS

NOTE:
SEE STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS

2 ADDITIONAL INSULATION AT EXTERIOR CAVITY WALL

SCALE: 3/4" = 1'-0" 0224

NOTE:
IN GENERAL, ADD RIGID INSULATION TO THE EXTERIOR WALLS AT THESE LOCATIONS:
* EMPLOYEE LOCKER ROOM - BEHIND SINK PLUS 2'-0" EACH SIDE OF SINK
* PHARMACY - BEHIND SINK PLUS 2'-0" EACH SIDE OF SINK
* FRESH LINE BAKERY - (2) EXTERIOR WALLS
*FOOD SERVICE - ALL EXTERIOR WALLS
*OPTICAL - ALL EXTERIOR WALLS
* FIRE DEPT ROOM - ALL EXTERIOR WALLS

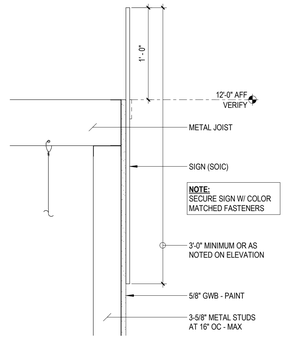


NOTE:
3 5/8" UNPUNCHED RUNNER TRACK BETWEEN GIRTS AT 2'-0" OC MAX

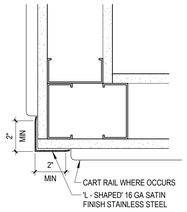
NOTE:
WHERE NOTED ABOVE R-13 FSK-FACED RIGID INSULATION BOARD (FS<25) TO FLOOR -- SECURE TO RUNNER TRACK / STEM WALL

3 INTERIOR SIGN SUPPORT

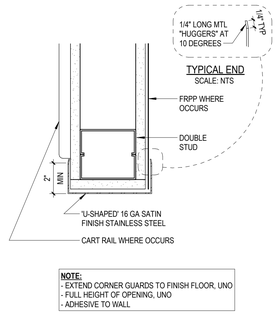
SCALE: 1 1/2" = 1'-0" 0322



NOTE:
SECURE SIGN W/ COLOR MATCHED FASTENERS



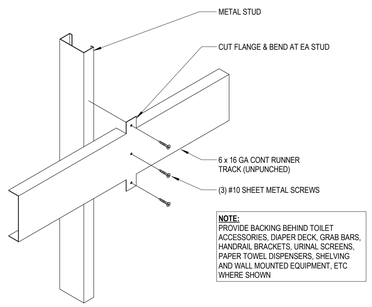
NOTE:
- EXTEND CORNER GUARDS TO FINISH FLOOR, UNO
- FULL HEIGHT OF OPENING, UNO
- ADHESIVE TO WALL



NOTE:
- EXTEND CORNER GUARDS TO FINISH FLOOR, UNO
- FULL HEIGHT OF OPENING, UNO
- ADHESIVE TO WALL

6 FURRING AT EXTERIOR WALL

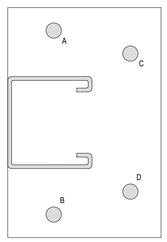
SCALE: NOT TO SCALE 0322



NOTE:
PROVIDE BACKING BEHIND TOILET ACCESSORIES, DIAPER DECK, GRAB BARS, HANDRAIL BRACKETS, URINAL SCREENS, PAPER TOWEL DISPENSERS, SHELVING AND WALL MOUNTED EQUIPMENT, ETC WHERE SHOWN

11 BACKING

SCALE: NOT TO SCALE 1012



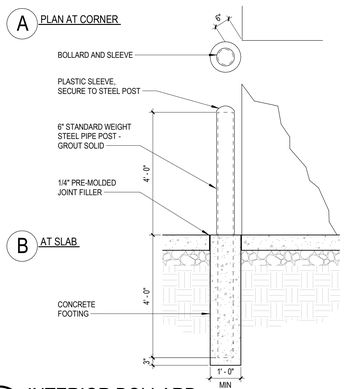
PREFERRED ANCHOR LOCATIONS A & B
PROHIBITED ANCHOR LOCATIONS A & C + B & D

16 RACK ANCHORAGE

SCALE: NOT TO SCALE 0117

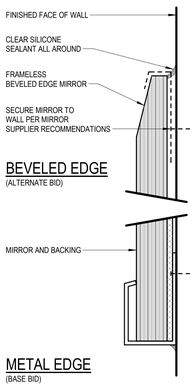
7A CORNER GUARD AT CORNER (CG-A)

SCALE: 3" = 1'-0" 1219



12 INTERIOR BOLLARD

SCALE: 1/2" = 1'-0" 0623

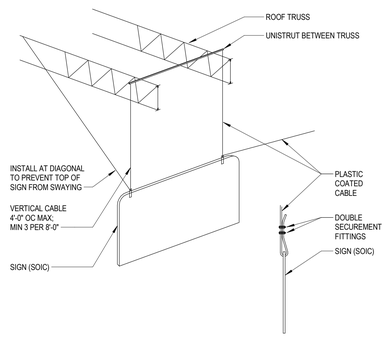


4 SEALANT AT MIRRORS

SCALE: 6" = 1'-0" 1125

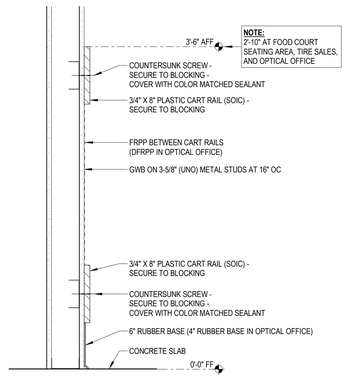
7B CORNER GUARDS AT WING WALL (CG-B)

SCALE: 3" = 1'-0" 1023



13 ONE-FACED SUSPENDED SIGN

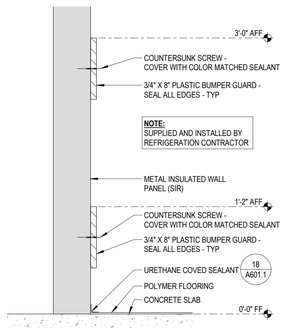
SCALE: NOT TO SCALE 0420



NOTE:
2'-10" AT FOOD COURT SEATING AREA, TIRE SALES, AND OPTICAL OFFICE

18 CART RAIL

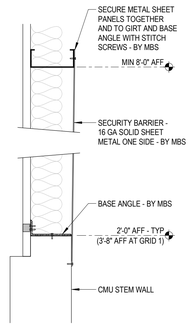
SCALE: 1 1/2" = 1'-0" 0824



NOTE:
SUPPLIED AND INSTALLED BY REFRIGERATION CONTRACTOR

19 BUMPER GUARD - SIR

SCALE: 1 1/2" = 1'-0" 0723



20 SECURITY BARRIER AT WAREHOUSE WALL

SCALE: 1" = 1'-0" 0224

ROOM FINISH SCHEDULE

LOCATION	NO	ROOM NAME	FLOOR MATERIAL	FLOOR FINISH	BASE MATERIAL	BASE FINISH	WALL MATERIAL	WALL FINISH	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT	REMARKS
SALES	101	MAIN SALES	CONC	SEAL	NONE / RB-6		OTS / GWB	NONE / P	OTS			1,2
SALES	101A	HALLWAY	CONC	SEAL	RB-6		GWB	P	OTS			
SALES	102	POS COOLER	CONC	SEAL	STL ANGLE		MIP		MIP		22'-3"	25
SALES	103	POS FREEZER	CONC	SEAL	STL ANGLE		MIP		MIP		22'-3"	25
SALES	104	POS SUB-ZERO FREEZER	CONC	SEAL	STL ANGLE		MIP		MIP		22'-3"	25
SALES	105	TALL DAIRY COOLER	CONC	SEAL	STL ANGLE		MIP		MIP		20'-7"	23
SALES	106	RTV	CONC	SEAL	NONE		FENCE	NONE	OTS			14
SALES	107	TALL PRODUCE COOLER	CONC	SEAL	STL ANGLE		MIP		MIP		22'-3"	23
SALES	108	RETURNS COUNTER	CONC	SEAL	RB-4		GWB		OTS			1, 2, 3
SALES	109	MEMBERSHIP COUNTER	CONC	SEAL	RB-4		GWB	P	OTS			1, 2, 3
DELI / SUSHI	110	DELI / DISH PREP	CONC	PF-A	COVED SEALANT		MIP		MIP		10'-0"	23
ROTISSERIE	111	ROTISSERIE	CONC	PF-A	COVED SEALANT		MIP / CBD	SST/ SST	MIP	SST	10'-0"	5, 21
ROTISSERIE	112	ROTISSERIE PREP	CONC	PF-A	COVED SEALANT		MIP		MIP		10'-0"	
MEAT DEPT	115	MEAT PREP	CONC	PF-A	COVED SEALANT		MIP		MIP		10'-0"	
MEAT DEPT	116	TALL DELI / MEAT COOLER	CONC	SEAL	STL ANGLE		MIP		MIP		21'-6"	
BAKERY	117	BAKERY	CONC	PF-A	COVED SEALANT		MIP	MIP	MIP		10'-0"	16
BAKERY	118	BAKERY COOLER	CONC	PF-A	COVED SEALANT		MIP		MIP		10'-0"	
BAKERY	119	TALL BAKERY FREEZER	CONC	SEAL	STL ANGLE		MIP		MIP		21'-6"	
RECEIVING	121	RECEIVING	CONC	SEAL / PF-C	CONC	SEAL	OTS / GWB	NONE / P	OTS			1, 2, 16, 36
RECEIVING	123	SCRUBBER PIT	CONC	PF-C	CONC	PB	CONC / GWB	PF-C / P	OTS			15
RECEIVING	124	BARRIER FREE RESTROOM	CONC	PF-B	PB		GFP	PVCP	GWB	P	8'-4"	
RECEIVING	126	EQUIPMENT PLATFORM	CONC	SEAL	NONE		GWB / PLY	PI P	OTS			37
RECEIVING	127	FLEET RESTROOM	CONC	PF-B	PB		GFP	PVCP	GWB	P	8'-4"	18,32
RECEIVING	129	BALERS	CONC	SEAL	NONE		CONC	PF-C	OTS			15
PHARMACY	131	PHARMACY	CONC	SEAL	RB-6		GWB	FRPP / P	OTS			3,24
PHARMACY	132	PROFESSIONAL SERVICES	CONC	SVT-1	RB-4		GWB	P	AC-1		9'-6"	
PHARMACY	133	LAB	CONC	SEAL	RB-4		GWB	P	AC-1		9'-6"	3, 4, 17,18,30
HEARING	147	HEARING CENTER	CONC	C	RB-4		GWB	P	OTS			2, 3
QUIET ROOM	137	QUIET ROOM	CONC	SEAL	RB-4		GWB	P	AC-1		8'-6"	
OFFICE CORE	140	FAMILY RESTROOM	CONC	PF-B	PB		TB	T	GWB	P	8'-5"	
OFFICE CORE	141	VESTIBULE	CONC	PF-B	PB		TB / GWB	T / P	OTS			8
OFFICE CORE	142	MEN'S RESTROOM	CONC	PF-B	PB		TB	T	GWB	P	8'-5"	
OFFICE CORE	143	WOMEN'S RESTROOM	CONC	PF-B	PB		TB	T	GWB	P	8'-5"	
OFFICE CORE	144	JANITOR	CONC	PF-C	PB		GFP	FRPP / P	OTS			27
OFFICE CORE	145	ELECTRICAL ROOM	CONC	SEAL	RB-4		GWB / PLY	PI NONE	OTS			37
OFFICE CORE	148	VAULT	CONC	SEAL	RB-4		GWB	P	AC-3		8'-6"	4, 9,18,19, 30
OFFICE CORE	149	EDP	CONC	VCT	RB-4		GWB	P	AC-1		8'-6"	10
OFFICE CORE	150	ANTE ROOM	CONC	SEAL	RB-4		GWB	P	GWB	P	8'-6"	4, 18
OFFICE CORE	151	OFFICE	CONC	SEAL	RB-4		GWB	P	AC-1		8'-6"	
OFFICE CORE	152	MANAGER	CONC	SEAL	RB-4		GWB	P	AC-1		8'-6"	
OFFICE CORE	153	EMPLOYEE LOCKER ROOM	CONC	SEAL	RB-4		GWB / PLY	FRPP / P	OTS / AC-1			27, 11
OFFICE CORE	153A	EMPLOYEE LOCKER ROOM MEZZANINE	PLY	SVT-2	RB-4		GWB	P	OTS			
OFFICE CORE	154	MPU	CONC	SEAL	RB-6		GWB	P	MTL DECK		12'-0"	1, 2,18,32
OFFICE CORE	168	HR ROOM										
DEMONSTRATION	159	DEMONSTRATION	CONC	PF-C	PB		PLY	FRPP	AC-2		10'-0"	12
TIRE CENTER	161	COMPRESSOR PLATFORM	CONC	SEAL	NONE		GWB / PLY	PI P	OTS		OTS / 8'-6"	2, 29
TIRE CENTER	162	TIRE INSTALLATION	CONC	SEAL	RB-4		OTS/ GWB / PLY	NONE/ PI P	OTS			2, 19, 29
TIRE CENTER	164	TIRE SALES	CONC	SEAL	NONE / RB-6		OTS/ GWB / PLY	NONE/ PI P	OTS			2, 29, 31
TIRE CENTER	165	BARRIER-FREE RESTROOM	CONC	PF-B	PB		GFP	PVCP	GWB	P	8'-4"	
TIRE CENTER	166	TIRE STORAGE AREA	CONC	SEAL	CMU / RB-4		CMU / PLY	NONE / P	OTS			2, 19, 29
OPTICAL	172	OPTICAL SALES	CONC	SEAL	RB-4		GWB	P	OTS			2, 3
OPTICAL	173	OPTICAL OFFICE	CONC	SEAL	RB-4		GWB	DFRPP / P	AC-1		8'-6"	3, 24
OPTICAL	174	CONSULT ROOM #1	CONC	SEAL	RB-4		GWB	DFRPP / P	AC-1		8'-6"	3, 24
OPTICAL	175	CONSULT ROOM #2	CONC	SEAL	RB-4		GWB	DFRPP / P	AC-1		8'-6"	3, 24
OPTICAL	176	FUTURE CONSULT ROOM	CONC	SEAL	RB-4		GWB	P	AC-1		8'-6"	
OPTICAL	177	CONTACT LENS	CONC	SEAL	RB-4		GWB	DFRPP / P	AC-1		8'-6"	3, 24
OPTICAL	178	TEST AREA	CONC	SEAL	RB-4		GWB	DFRPP / P	AC-1		8'-6"	3, 24
FOOD SERVICE		SODA AND SEATING	CONC	SEAL / PF-B	PB	PB	GWB / PLY	FRPP / P	OTS			
FOOD SERVICE	181	FOOD SERVICE	CONC	PF-A	COVED SEALANT		MIP		MIP		10'-0"	
FOOD SERVICE	182	FOOD PREP	CONC	PF-A	COVED SEALANT		MIP		MIP		10'-0"	
FOOD SERVICE	183	COOLER	CONC	PF-A	STL ANGLE		MIP		MIP		10'-0"	
FOOD SERVICE	184	FOOD PREP	CONC	PF-A	COVED SEALANT		MIP		MIP		10'-0"	13
ENCLOSED CANOPY	186	ENCLOSED CANOPY	CONC	SEAL	CONC	SEAL	MP		OTS			34
MECHANICAL	185	HALLWAY	CONC	SEAL	NONE							
MECHANICAL	190	FIRE DEPT ROOM	CONC	SEAL	NONE		OTS / GWB / PLY	NONE / P / NONE	OTS			
MECHANICAL	191	MECHANICAL ROOM	CONC	SEAL	NONE		OTS / GWB / PLY	NONE / P / NONE	OTS			
MECHANICAL	192	MSB	CONC	SEAL	NONE		OTS / GWB / PLY	NONE / P / NONE	OTS			

ROOM FINISH ABBREVIATION KEY

AC-1	24X48 SUSPENDED GRID WITH LAY-IN ACOUSTIC BOARD	FRPP	FIBERGLASS REINFORCED PLASTIC PANEL
AC-2	24X48 SUSPENDED GRID WITH MOISTURE RESISTANT, WASHABLE LAY-IN MINERAL BOARD ACOUSTIC TILE	GFP	GYPSUM FIBER PANEL
AC-3	24X48 RATED SUSPENDED GRID AND LAY-IN ACOUSTIC BOARD	GWB	GYPSUM WALL BOARD
AC-4	24X48 SUSPENDED GRID WITH MOISTURE RESISTANT, WASHABLE LAY-IN GYPSUM BOARD ACOUSTIC TILE	LF	LAMINATE FLOORING (SOIC)
AC-5	24X24 SUSPENDED GRID WITH LAY-IN SST PANEL	MF	MATTE FINISH
C	CARPET TILE (SOIC)	MIP	METAL INSULATED PANELS (SIR)
CBD	CEMENT BOARD	MP	PRE-FINISHED METAL PANELS BY MBS
CMU	CONCRETE MASONRY UNIT	OTS	OPEN TO STRUCTURE
CONC	CONCRETE	P	PAINT - EGGSHELL FINISH
CV	6" COVED VINYL	PB	POLYMER BASE (COVED)
DFRPP	DECORATIVE FIBERGLASS REINFORCED PLASTIC PANEL	PF-A	POLYMER FLOORING - SEE SPECIFICATIONS FOR FINISH AND COLOR
DPL	DIAMOND STEEL PLATE	PF-B	POLYMER FLOORING - SEE SPECIFICATIONS FOR FINISH AND COLOR
		PF-C	POLYMER FLOORING - SEE SPECIFICATIONS FOR FINISH AND COLOR
		PF-D	POLYMER FLOORING - SEE SPECIFICATIONS FOR FINISH AND COLOR
PLY	PLYWOOD (FIRE RETARDANT TREATED)		
PVCP	PVC PANEL		
RB-4	RUBBER BASE - 4" HIGH		
RB-6	RUBBER BASE - 6" HIGH		
RCT	RATED 24X48 CEILING TILE		
SV	SHEET VINYL		
SVT-1	SOLID VINYL TILE (SOIC)		
SVT-2	SOLID VINYL TILE		
T	12"X12" PORCELAIN TILE		
TB	GYPSUM FIBER PANEL TILE BACKBOARD		
VCT	VINYL COMPOSITION TILE - STATIC DISSIPATING		
WB	WOOD BASE (SOIC)		
WL	WALL LAMINATE		

ROOM FINISH REMARKS

1 RB-6 ON GWB WALLS
2 GWB ON STUD WALLS - PAINTED
3 PROVIDE BASE ON CASEWORK
4 STEEL DECK ABOVE CEILING
5 SST ON GFP - FULL HEIGHT ON STUD WALLS
6 GWB - PAINTED ON WAREHOUSE SIDE OF STUD WALLS
7 SOUND CURTAINS
8 CERAMIC TILE TO 8'-5" AFF, GWB ABOVE - PAINTED
9 1-HR RATED PER OWNER REQUEST - NOT CODE REQUIRED
10 FLOOR TILE MUST BE NON-STATIC
11 ACOUSTIC CEILING UNDER MEZZANINE
12 FRPP FULL HEIGHT ON WALLS INDICATED PER DRAWINGS
13 SST ON CBD - FULL HEIGHT BEHIND OVEN
14 CHAIN LINK FENCE / GATE; CONFIRM LAYOUT AND LOCATION WITH WAREHOUSE MANAGER
15 CONCRETE WALLS AT SCRUBBER PIT WILL RECEIVE PF-C SEALER COATS, NO MORTAR
16 POLYMER FLOORING UNDER GREASE TANK - SEE PLAN FOR SIZE
17 CEILING HEIGHT NOTED IS MINIMUM, ADJUST TO MAINTAIN 1'-6" ABOVE TALL CASES TO SPRINKLER DEFLECTOR
18 16 GA SHEET METAL SECURITY BARRIER OF STUD - SEE PLAN FOR LOCATION
19 MATTE FINISH FOR CONCRETE FLOOR
20 SLAB SAW CUT JOINT LOCATIONS, SEE STRUCT DWGS
21 CEILING TRANSITION - SEE DETAILS 19 AND 20/A501.1
22 NOT USED
23 STEEL ANGLE AT EXTERIOR OF COOLER (SIO) - SEE 11 / A601.1
24 WAINSCOT OR CHAIR RAIL WHERE INDICATED ON ELEVATIONS
25 STEEL BUMPER AT EXTERIOR OF COOLER / FREEZER (SIO) - SEE 16 / A601.1
26 TYPE 'X' GWB
27 FRPP TO 8'-0" ABOVE WALL BASE ON WALLS INDICATED PER DRAWINGS
28 NOT USED
29 FRT BC-X PLYWOOD APPLIED OVER GWB, PAINT BLACK
30 GWB ON WALLS EXTENDS TO SECURITY DECK ABOVE
31 RUBBER BASE AT GWB ONLY
32 METAL SECURITY DECK OVER METAL JOISTS, BY GC
33 CARPET IN HEARING CENTER BOOTH (SOIV)
34 BUTLER RIB II - COOL IVORY WHITE METAL PANEL ALL WALLS, UNO
35 GC TO CLEAN, SPOT PRIME, RE-PRIME AND PAINT ENTIRE UNDERSIDE OF SUSPENDED CANOPY
36 PAINT EXPOSED STEEL AND COLUMNS
37 PLYWOOD TO +8'-0", APPLIED OVER GWB

NOTE:
PAINTER NOTE:
AT STEEL CHANNEL / TUBE FRAMES AT EXTERIOR MAN-DOORS AND OVERHEAD DOORS - PAINTED EXPOSED INTERIOR SURFACES WHITE

GC NOTE:
PAINTER NOTE:
AT ROOF - PAINT ALL EXPOSED PIPING TO MATCH THE ROOF; ALUMINUM OR GALVALUME WITH THE EXCEPTION OF GAS PIPING WHICH IS TO BE PAINTED *SAFETY YELLOW* - SEE NOTE ON ROOF PLAN A201 AND SPECIFICATION

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OFFICE RECORD COPIES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:49

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

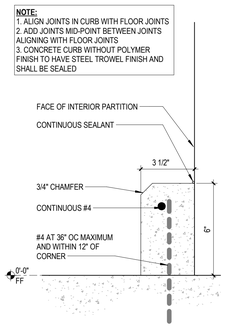
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

ROOM FINISH SCHEDULE AND TYPICAL INTERIOR DETAILS

A601

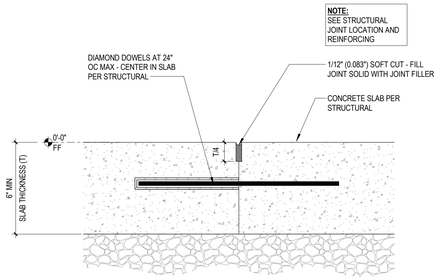
12/22/2025 9:42:30 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF LEES SUMMIT SERVICES
LEES SUMMIT, MISSOURI
03/26/2026 4:03:49



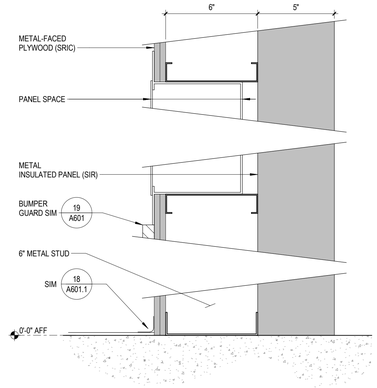
1 STANDARD CONCRETE CURB

SCALE: 3" = 1'-0" 0920



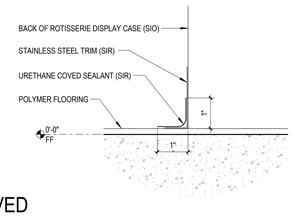
2 CONSTRUCTION JOINT (CJ)

SCALE: 3" = 1'-0" 1222



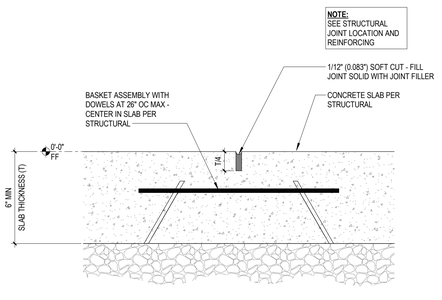
3 ELECTRICAL PANEL BUILD-OUT AT MIP

SCALE: 3" = 1'-0" 0623 AT BAKERY AND FOOD SERVICE



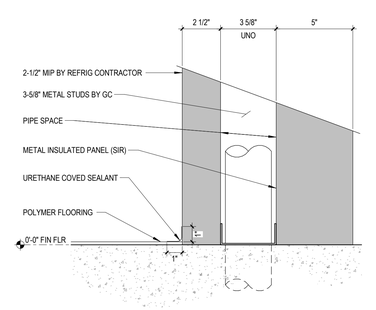
4 COVED SEALANT AT ROTISSERIE DISPLAY CASE

SCALE: 6" = 1'-0" 0124



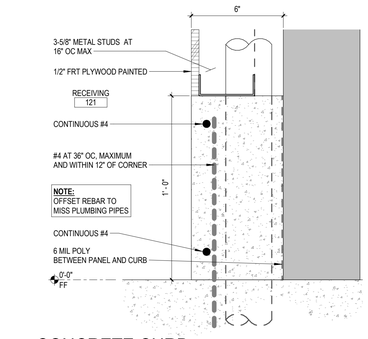
7 SHRINKAGE JOINT (SJ)

SCALE: 3" = 1'-0" 1222



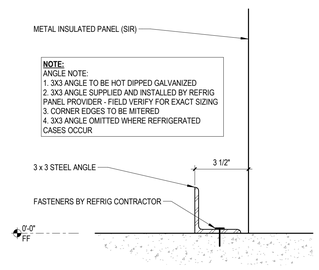
8 SINK BUILD-OUT AT MIP

SCALE: 3" = 1'-0" 1121 AT DELI AND MEAT PREP



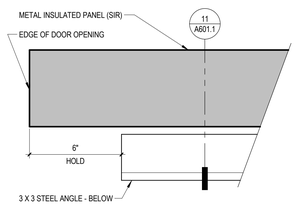
9 CONCRETE CURB AT MIP AT RECEIVING / MEAT PREP

SCALE: 3" = 1'-0" 0916



11 STEEL ANGLE AT MIP

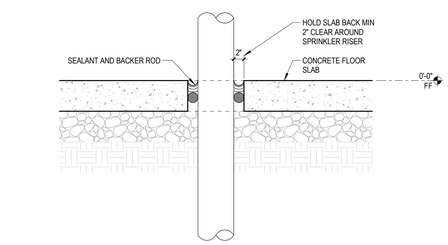
SCALE: 3" = 1'-0" 0224



PLAN VIEW - STEEL ANGLE AT MIP DOOR

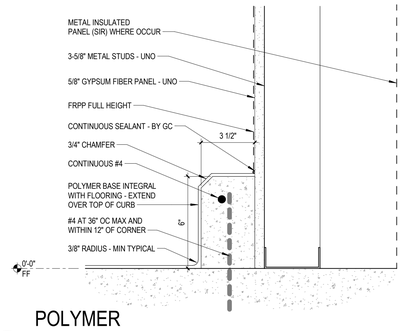
13

SCALE: 3" = 1'-0" 0224



14 FIRE SPRINKLER RISER AT SLAB

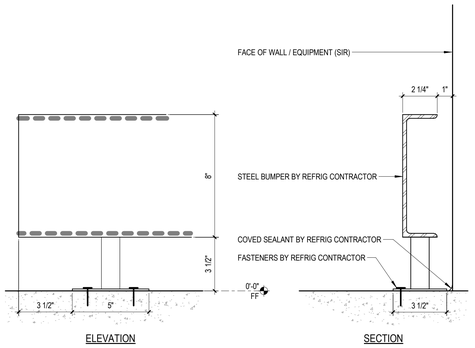
SCALE: 1" = 1'-0" 0713



POLYMER CONCRETE CURB AT TYPICAL STUDS

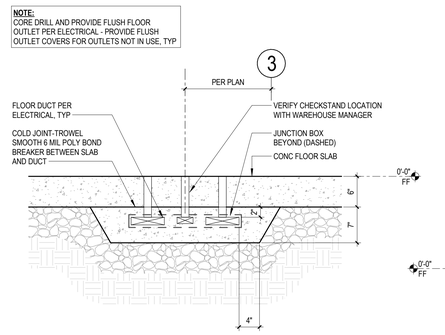
15

SCALE: 3" = 1'-0" 0623



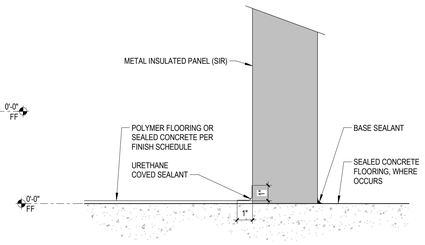
16 STEEL BUMPER

SCALE: 3" = 1'-0" 0723



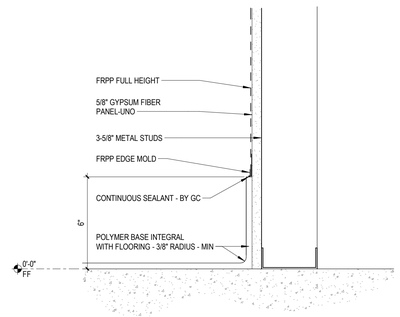
17 CHECKSTAND UNDER - FLOOR DUCT

SCALE: 1" = 1'-0" 1019



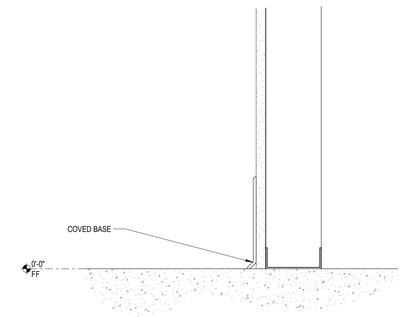
18 COVED SEALANT AT MIP BASE

SCALE: 3" = 1'-0" 0623



19 POLYMER FLUSH BASE AT STUDS

SCALE: 3" = 1'-0" 0522



20 TYPICAL RUBBER BASE

SCALE: 3" = 1'-0" 1019

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

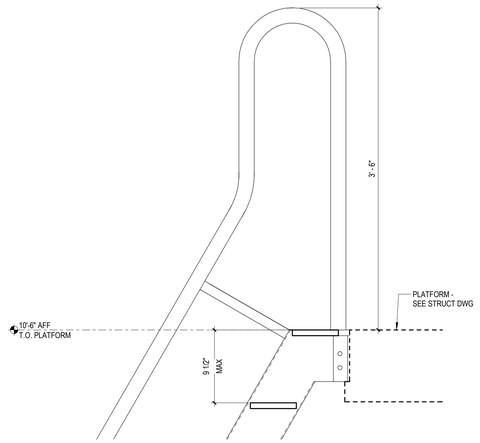
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

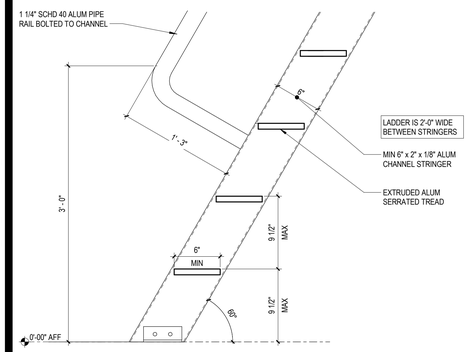
BASE, CURB, AND SLAB DETAILS

A601.1

12/22/2025 9:42:32 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

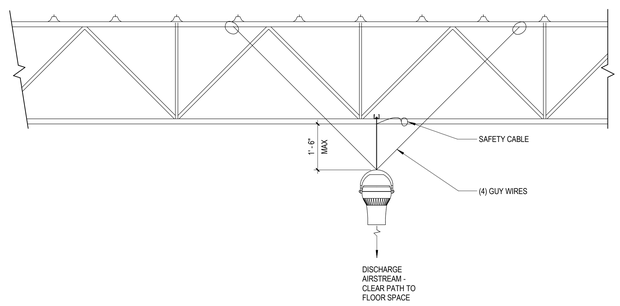
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT INCLUDE SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:49





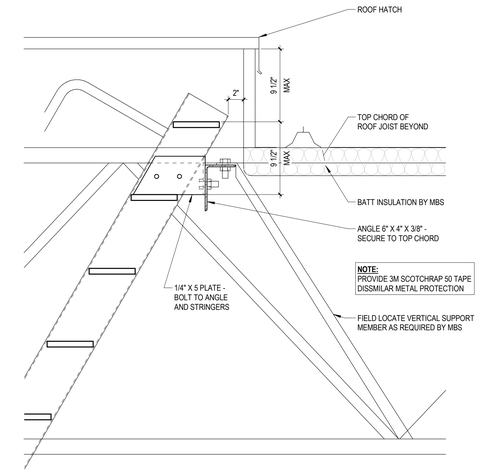
12 FIXED SHIP LADDER TO PLATFORM AT RECEIVING

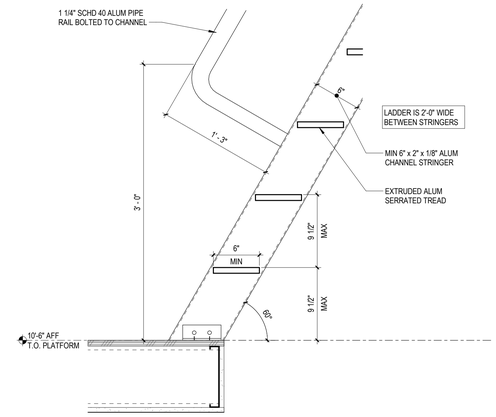
SCALE: 1 1/2" = 1'-0" 0725



13 DESTRATIFICATION FANS AT POS FREEZER / COOLER

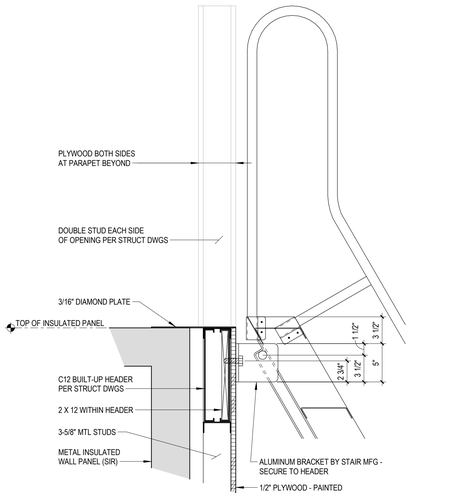
SCALE: 1/2" = 1'-0"





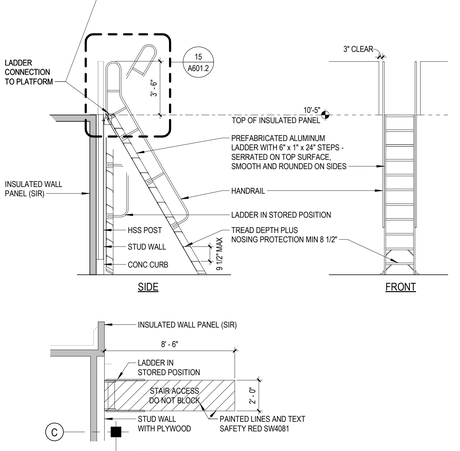
14 FIXED SHIP LADDER TO ROOF HATCH AT RECEIVING

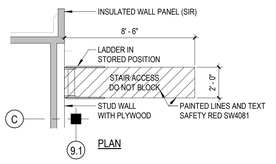
SCALE: 1 1/2" = 1'-0" 0924



15 LADDER CONNECTION TO PLATFORM

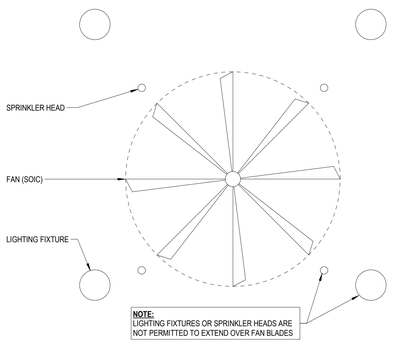
SCALE: 1 1/2" = 1'-0" 1024





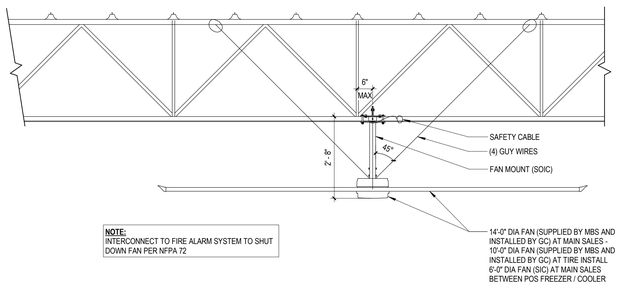
20 SHIP LADDER TO PLATFORM

SCALE: 1/4" = 1'-0" 0625



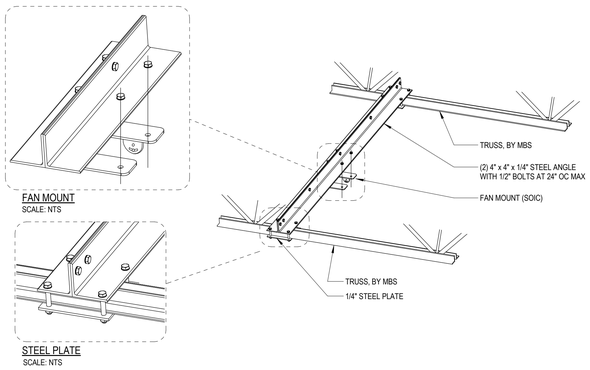
16 FAN MOUNTING

SCALE: 1/4" = 1'-0" 0320



17 FAN MOUNTING AT MAIN SALES (TIRE INSTALL SIM)

SCALE: 1/2" = 1'-0" 0720



COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO
WHOLESALE
CORPORATION

730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101

206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR
PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

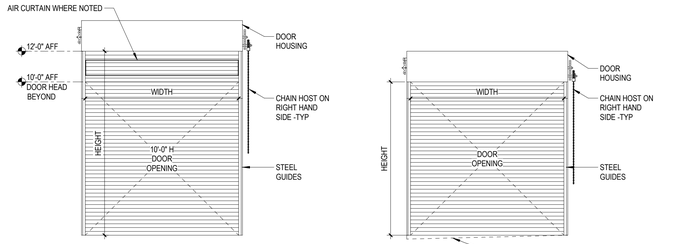
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

LADDER AND FAN
DETAILS AND
SECTIONS

A601.2

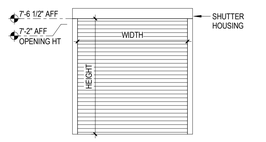
12/22/2025 9:42:33 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

DOOR TYPES

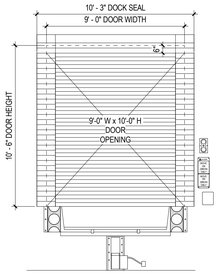


A ROLLING SERVICE:
WAREHOUSE ENTRY, BREAD

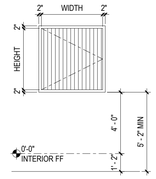
B ROLLING SERVICE
MECHANICAL ROOM, ENCLOSED CANOPY



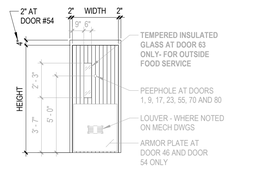
C OVERHEAD ROLLING SERVICE
PHARMACY



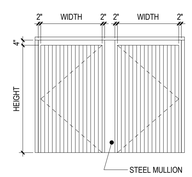
D ROLLING SERVICE
LOADING DOCK (EXTERIOR VIEW)



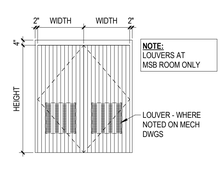
E COMPACTOR:
TRASH, CARDBOARD (EXTERIOR VIEW)



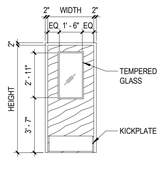
F SINGLE:
WAREHOUSE ENTRY, EXTERIOR EGRESS, BREAD, TIRE SALES, TIRE INSTALLATION, ANTE ROOM, REFRIGERATION MECHANICAL ROOM, FLEET RESTOOM, OUTSIDE FOOD SERVICE



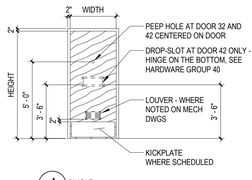
G 2 SINGLE DOORS WITH STEEL MULLION
TYP EXTERIOR EGRESS



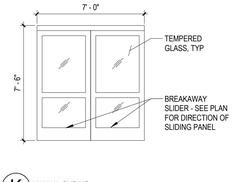
H PAIR W/O MULLION
FIRE DEPT ROOM AND MSB ROOM



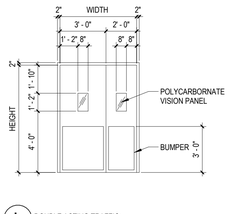
I SINGLE VISION
EDP AND PHARMACY



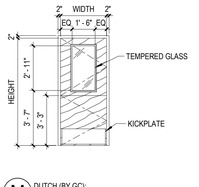
J SINGLE:
TYP INTERIOR



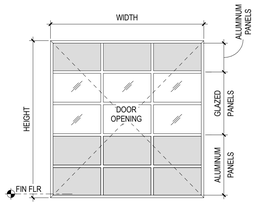
K MANUAL SLIDING:
OPTICAL RECEPTION



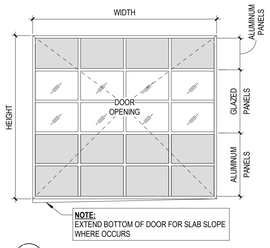
L DOUBLE ACTING TRAFFIC:
FOOD SERVICE



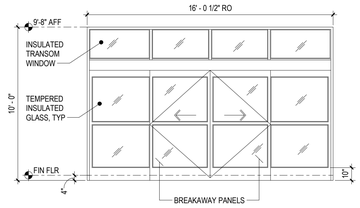
M DUTCH (BY GC):
M.P.U.



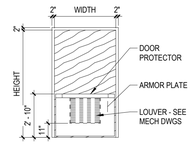
Q GLAZED SECTIONAL:
TIRE INSTALLATION



T GLAZED SECTIONAL:
ENCLOSED CANOPY

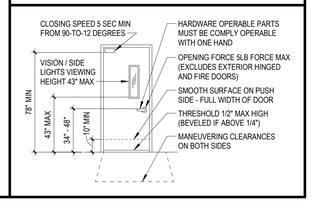


R AUTOMATIC SLIDING:
ENCLOSED CANOPY

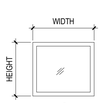


S DEMONSTRATION DOOR

ADA DOOR REQUIREMENTS

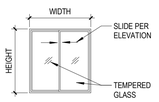


RELITE / WINDOW TYPES



A
STOREFRONT
PHARMACY, FOOD SERVICE, TIRE CENTER

C
STOREFRONT
PHARMACY



D
SLIDING PASS-THRU
PHARMACY

DOOR SCHEDULE

NO	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR LABEL	DOOR MATERIAL	FRAME MATERIAL	FRAME DETAIL #	FRAME SHEET #	HARDWARE SET	LOUVER SIZE	REMARKS	EXIT DEVICE ALARM
ENTRY												
1	4'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	2		PEEPHOLE	
2	14'-0"	12'-0"	A		STEEL	STEEL	11, 17	A602.2	1		14' X 10' OPENING (14'-6" STEM WALL R.O. WIDTH)	
3	10'-0"	12'-0"	A		STEEL	STEEL	11, 17	A602.2	1		10' X 10' OPENING (10'-6" STEM WALL R.O. WIDTH)	
OPTICAL												
4	7'-0"	7'-6"	K		ALUMINUM	ALUMINUM	1	A602.1	39		SLIDING WITH BREAKAWAY	
5	3'-0"	7'-0"	J		WOOD	STEEL	16	A602.1	13		PAINT METAL FRAME TO MATCH WALL COLOR	
5B	3'-0"	7'-0"	J		WOOD	STEEL	16	A602.1	13		PAINT METAL FRAME TO MATCH WALL COLOR	
5C	3'-0"	7'-0"	J		WOOD	STEEL	16	A602.1	13A		PAINT METAL FRAME TO MATCH WALL COLOR; SHOP PREP DOOR FOR CONCEALED STOP	
EXTERIOR EGRESS												
6A	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	**		** PM SELECT HARDWARE GROUP: 6,8	YES
6B	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	7			YES
7A	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	**		** PM SELECT HARDWARE GROUP: 6,8	YES
7B	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	7			YES
8A	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	**		** PM SELECT HARDWARE GROUP: 6,8	YES
8B	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	7			YES
9	3'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	37		PEEPHOLE	
RECEIVING												
12	9'-0"	10'-6"	D		STEEL	STEEL	5	A602.2	1		9'-0" X 10'-0" OPENING, TRAILER RESTRAINT	
13	9'-0"	10'-6"	D		STEEL	STEEL	5	A602.2	1		9'-0" X 10'-0" OPENING, TRAILER RESTRAINT	
14	9'-0"	10'-6"	D		STEEL	STEEL	5	A602.2	1		9'-0" X 10'-0" OPENING, TRAILER RESTRAINT	
15	9'-0"	10'-6"	D		STEEL	STEEL	5	A602.2	1		9'-0" X 10'-0" OPENING, TRAILER RESTRAINT	
17	4'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	35		PEEPHOLE	
18	10'-0"	12'-0"	A		STEEL	STEEL	13, 18	A602.2	1		10' X 10' OPENING	
22	3'-0"	7'-0"	J		WOOD	STEEL	8 SIM	A602.1	27*		TILE FLUSH WITH DOOR FRAME WITH SOFT JOINT	
23	3'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	45		KEYPAD LOCK; DOOR CLOSER, PEEPHOLE	
COMPACTOR												
24A	4'-0"	4'-0"	E		STEEL	STEEL	4	A602.2	30		FUTURE	
24B	4'-0"	4'-0"	E		STEEL	STEEL	4	A602.2	30		COMPACTOR SILL AT 4'-0" AFF	
EXTERIOR EGRESS												
26B	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	7			YES
27A	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	**		** PM SELECT HARDWARE GROUP: 6,8	YES
27B	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	7			YES
28A	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	**		** PM SELECT HARDWARE GROUP: 6,8	YES
28B	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	7			YES
29A	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	**		** PM SELECT HARDWARE GROUP: 6,8	YES
29B	4'-0"	7'-0"	G		STEEL	STEEL	20	A602.1	7			YES
PHARMACY												
30	3'-0"	7'-0"	I		WOOD	STEEL	7	A602.1	15			
31	3'-0"	7'-0"	J		WOOD	STEEL	7	A602.1	15			
32	3'-0"	7'-0"	J		WOOD	STEEL	7	A602.1	15		PEEPHOLE	
33	12'-0"	7'-6 1/2"	C		ALUMINUM		10	A503	NA			
EXTERIOR EGRESS												
34	4'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	**		** PM SELECT HARDWARE GROUP: 6,8	YES
DEMONSTRATION												
35	4'-0"	7'-0"	S		WOOD	STEEL	7	A602.1	44	24" X 20"		
JANITOR												
36	3'-0"	7'-0"	J		WOOD	STEEL	7	A602.1	19			
ELECTRICAL												
37	4'-0"	7'-0"	J		WOOD	STEEL	7	A602.1	18			
FAMILY RESTROOM												
38	3'-0"	7'-0"	J		WOOD	STEEL	7	A602.1	27			
MPU												
39	3'-0"	7'-0"	M		WOOD	STEEL	7	A602.1	32			
QUIET ROOM												
40	3'-0"	7'-0"	J		WOOD	STEEL	7	A602.1	17			
OFFICE CORE												
41	4'-0"	7'-0"	J		WOOD	STEEL	7	A602.1	19			
42	3'-0"	7'-0"	J	20 MIN	WOOD	STEEL	7	A602.1	40		SMOKE GASKET, PASS-THRU, OWNER REQUESTED FIRE RATING - NOT CODE REQUIRED	
43	3'-0"	7'-0"	I		WOOD	STEEL	7	A602.1	14			
44	3'-0"	7'-0"	J		WOOD	STEEL	7	A602.1	19			
45A	3'-0"	7'-0"	J		WOOD	STEEL	7	A602.1	19			
EXTERIOR EGRESS												
45	3'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	**		** PM SELECT HARDWARE GROUP: 6,8	YES
TIRE CENTER												
46	3'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	**		ARMOR PLATE **PM SELECT HARDWARE GROUP: 6,8	YES
47	10'-0"	10'-0"	Q		ALUMINUM	STEEL	15	A602.2	1			
48	10'-0"	10'-0"	Q		ALUMINUM	STEEL	15	A602.2	1			
49	10'-0"	10'-0"	Q		ALUMINUM	STEEL	15	A602.2	1			
51	10'-0"	10'-0"	Q		ALUMINUM	STEEL	15	A602.2	1			
52	10'-0"	10'-0"	Q		ALUMINUM	STEEL	15	A602.2	1			
54	4'-0"	7'-0"	F		STEEL	STEEL	8	A602.1	24		ARMOR PLATE, SMOKE GASKET (NOT REQUIRED IN IBC)	
55	4'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	8		PEEPHOLE	YES
56	3'-0"	7'-0"	J		WOOD	STEEL	8 SIM	A602.1	27			
FOOD SERVICE												
61	5'-0"	7'-0"	L		COMPOSITE	ALUMINUM	5	A505			DOOR SUPPLIED AND INSTALLED BY REFRIGERATION CONTRACTOR	
HALLWAY												
62	3'-0"	7'-0"	J									
62A	3'-0"	7'-0"	F									
MECHANICAL ROOM												
90	10'-0"	10'-0"	B		STEEL	STEEL	13, 18	A602.2	1			
91	4'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	52			
92	4'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	52			
FIRE DEPT ROOM												
93	6'-0"	7'-0"	H		STEEL	STEEL	20 SIM	A602.1	47			
MSB ROOM												
94	6'-0"	7'-0"	H		STEEL	STEEL	20 SIM	A602.1	46			
ENCLOSED CANOPY												
70	4'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	42		PEEPHOLE	
72	16'-0"	7'-8"	R		ALUMINUM	ALUMINUM			22		AUTO-DOORS W/ BREAKAWAY PANELS ** 7' DOOR + 8" HEADER	
73	16'-0"	7'-8"	R		ALUMINUM	ALUMINUM			22		AUTO-DOORS W/ BREAKAWAY PANELS ** 7' DOOR + 8" HEADER	
74	13'-0"	10'-0"	T		ALUMINUM	STEEL	13, 18	A602.3	1			
75	16'-0"	10'-0"	T		ALUMINUM	STEEL	13, 18	A602.3	1			
76	16'-0"	10'-0"	T		ALUMINUM	STEEL	13, 18	A602.3	1			
77	16'-0"	10'-0"	T		ALUMINUM	STEEL	13, 18	A602.3	1			
78	16'-0"	10'-0"	T		ALUMINUM	STEEL	13, 18	A602.3	1			
80	4'-0"	7'-0"	F		STEEL	STEEL	20 SIM	A602.1	42		PEEPHOLE	
81	12'-0"	10'-0"	B		ALUMINUM	STEEL	12	A602.2	1			

RELITE / WINDOW SCHEDULE

NO	FRAME TYPE	WIDTH	HEIGHT	MATERIAL	DETAIL #	SHEET #	GLASS THK	GLASS NOTES	REMARKS
PHARMACY									
4	D	4'-0"	5'-2"	ALUMINUM	15	A503	1/4"	TEMP - CLEAR	SLIDER WITH LOCK - HOLD DIMENSIONS
5	D	3'-4"	4'-9"	ALUMINUM	15	A503	1/4"	TEMP - CLEAR	SLIDER WITH LOCK - HOLD DIMENSIONS
6	D	3'-4"	5'-2"	ALUMINUM	15	A503	1/4"	TEMP - CLEAR	SLIDER WITH LOCK - HOLD DIMENSIONS
22	C	20'-2"	3'-8"	ALUMINUM	2	A602.1	1/4"	-	(3) EQ PANES
24	A	1'-6"	3'-9"	ALUMINUM	2	A602.1	1/4"	TEMP - CLEAR	
TIRE CENTER									
30	A	4'-0"	4'-0"	STEEL	3	A602.1	1/4"	TEMP - CLEAR	
FOOD SERVICE									
50	A	5'-4"	4'-4"	ALUMINUM	2	A602.1	1/4"	TEMP - CLEAR	ADD CLOSURE PIECE ON EXPOSED EDGES

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CITY OF LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:49

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

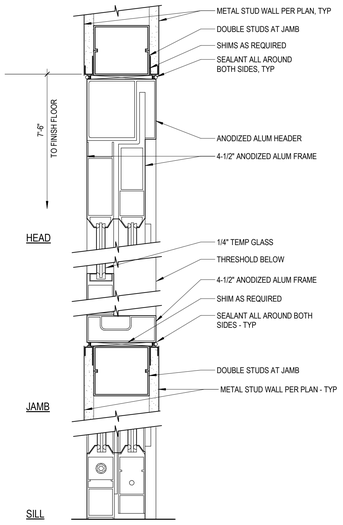
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

DOOR AND WINDOW SCHEDULE

A602

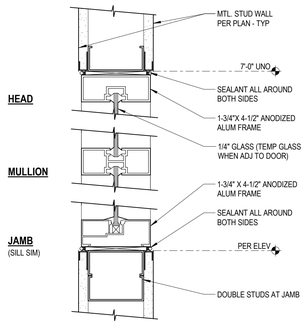
12/22/2025 9:42:36 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
GOVERNING AGENCIES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:49



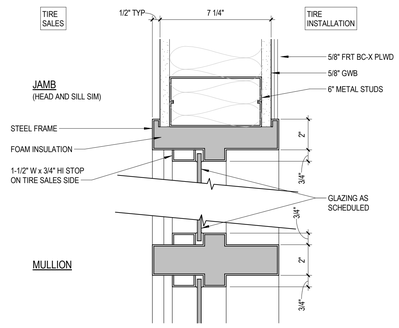
1 OPTICAL BREAKAWAY SLIDER

SCALE: 3" = 1'-0" 0714



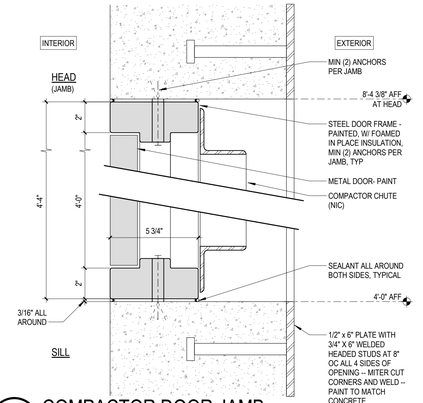
2 ALUMINUM STOREFRONT RELITE

SCALE: 3" = 1'-0" 0714



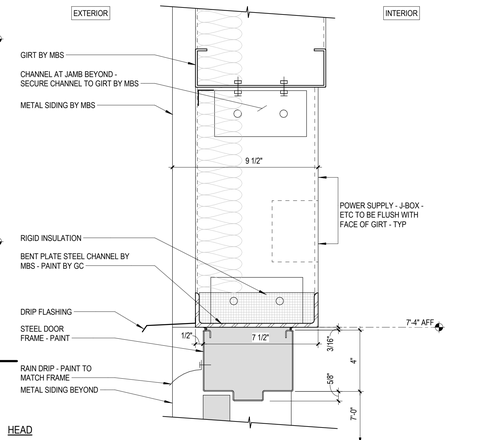
3 RELITE AT TIRE SALES

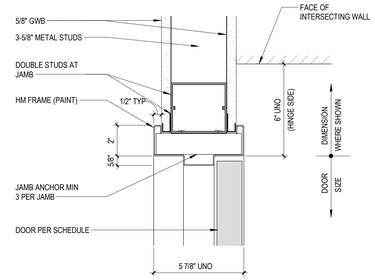
SCALE: 3" = 1'-0" 0820



4 COMPACTOR DOOR JAMB

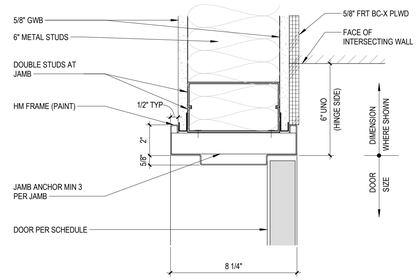
SCALE: 3" = 1'-0" 0322





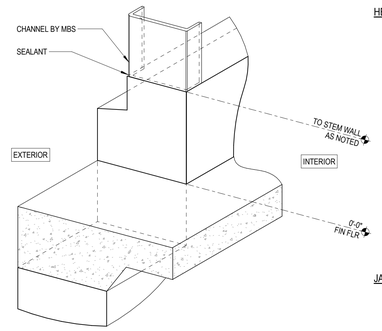
7 HM DOOR JAMB AT INTERIOR PARTITION

SCALE: 3" = 1'-0" 0714 HEAD SIM



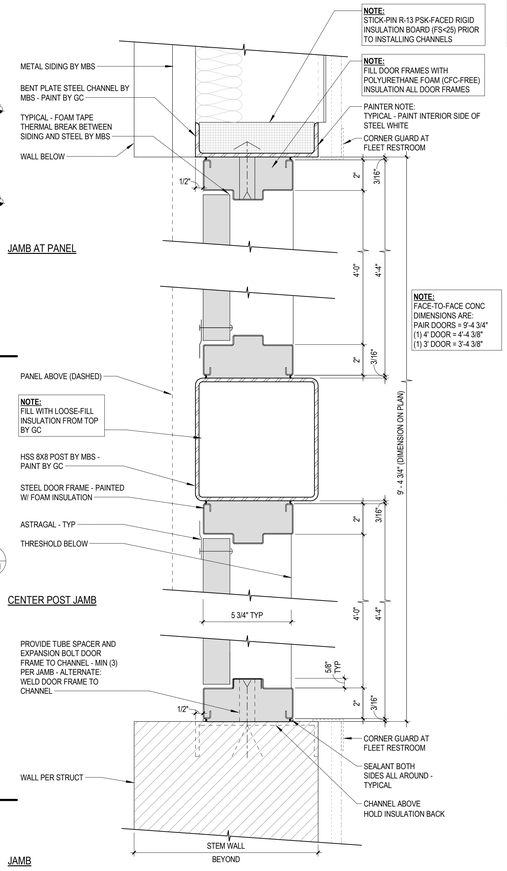
8 HM DOOR JAMB AT TIRE SALES / TIRE INSTALLATION

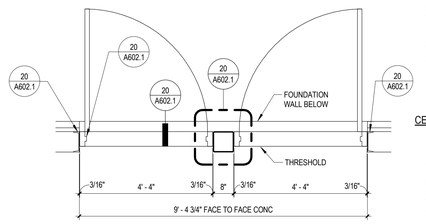
SCALE: 3" = 1'-0" 0321



9 STEM WALL AT DOORS

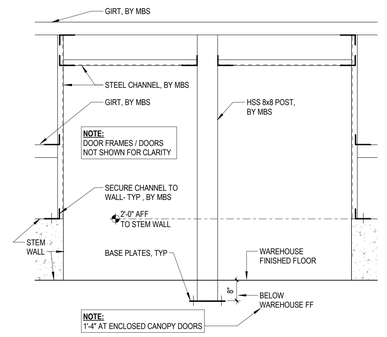
SCALE: 1 1/2" = 1'-0" 1020





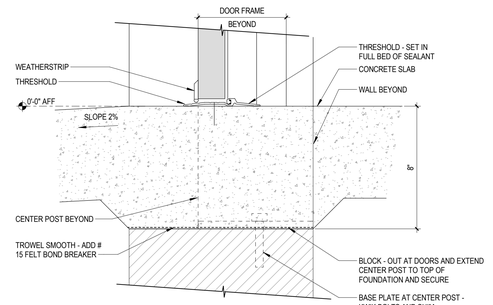
14 POST BETWEEN EGRESS DOORS

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



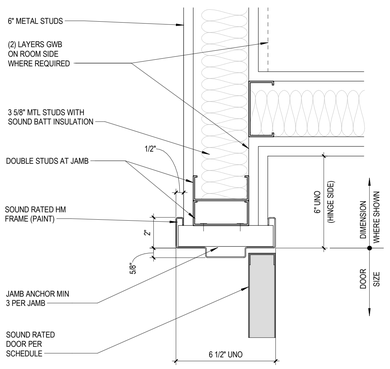
19 POST BETWEEN EGRESS DOORS

SCALE: 1/2" = 1'-0" 0622 (ELEVATION)



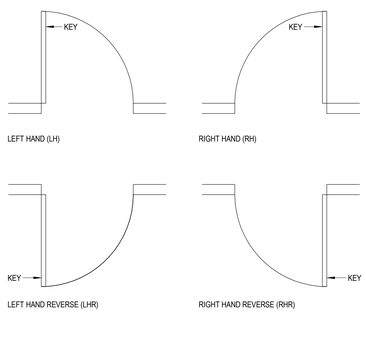
20 EXTERIOR DOOR

SCALE: 3" = 1'-0" 0125



16 HM DOOR JAMB AT SOUND PARTITION

SCALE: 3" = 1'-0" 1020



17 DOOR HAND CONVENTIONS

SCALE: 1/2" = 1'-0" 0413

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

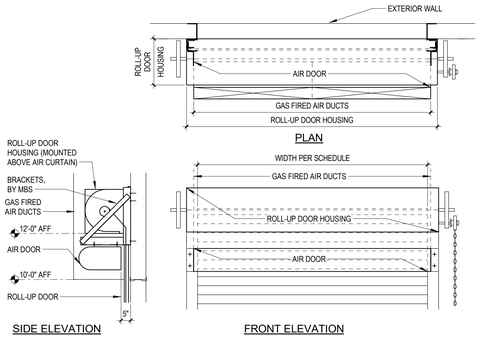
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

DOOR AND WINDOW DETAILS

A602.1

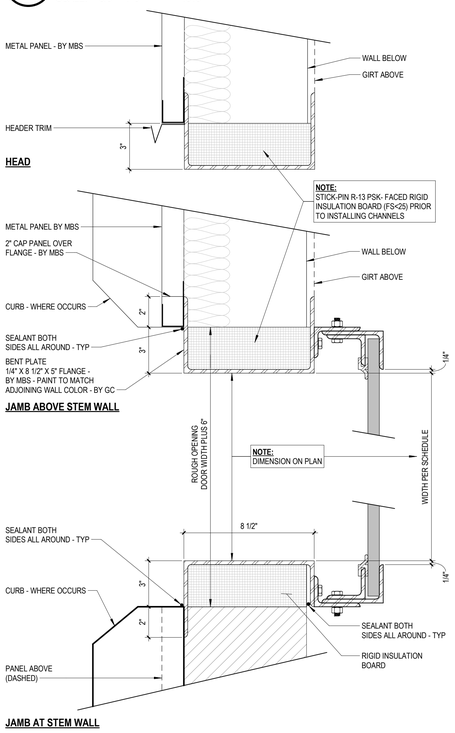
12/22/2025 9:42:38 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CITY OF BLUE SPRINGS
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:49



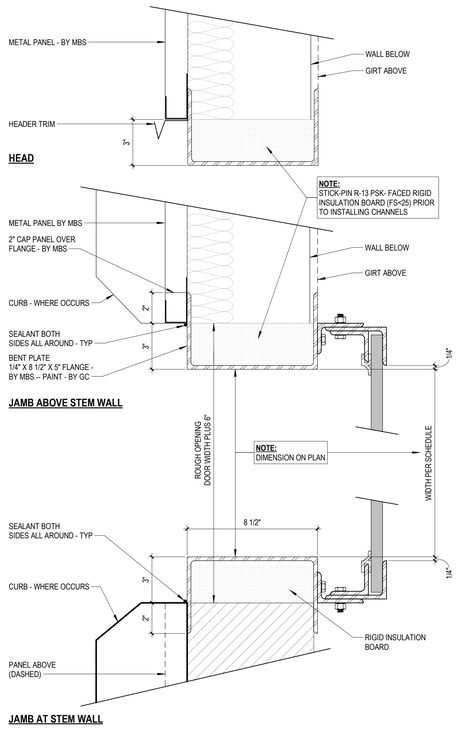
1 ROLLING SERVICE DOOR AT ENTRY / EXIT / GAS FIRED AIR DOOR

SCALE: 3/8" = 1'-0" 1019



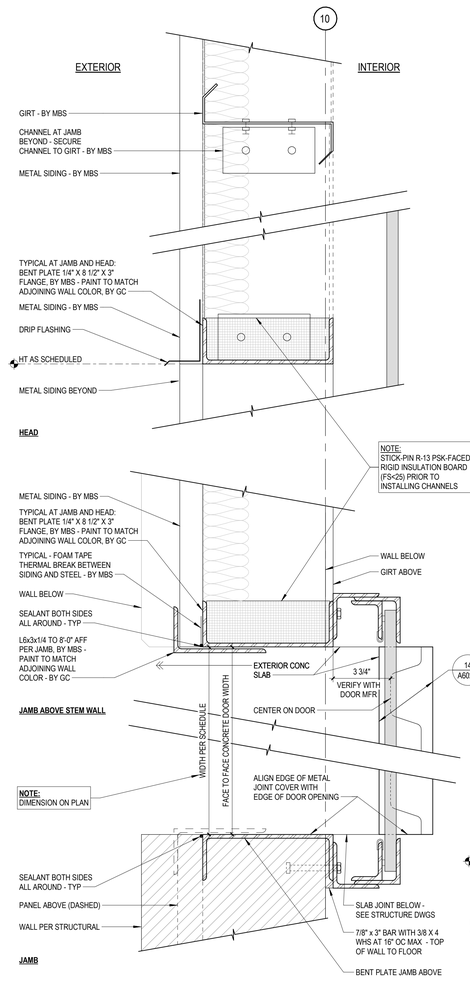
11 ROLLING SERVICE DOOR AT DOORS #2 & #3

SCALE: 3" = 1'-0" 1125



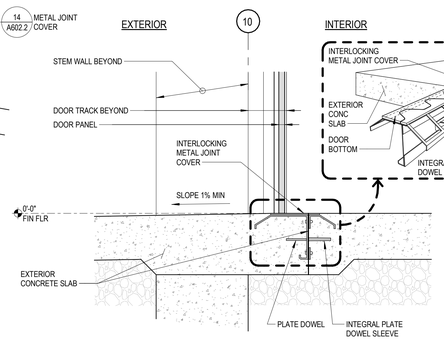
12 ROLLING SERVICE DOOR

SCALE: 3" = 1'-0" 1125



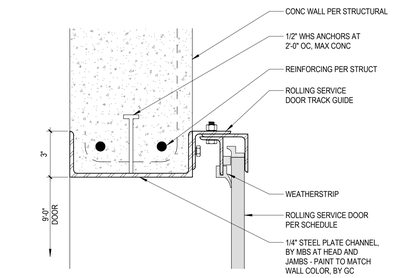
13 ROLLING SERVICE DOOR AT BREAD DOOR #18

SCALE: 3" = 1'-0" 1125



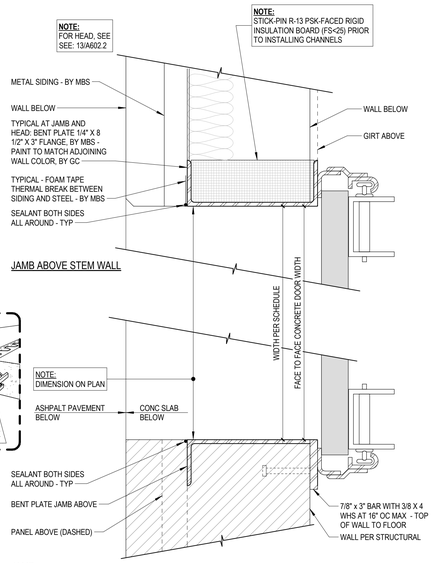
14 METAL JOINT COVER AT BREAD DOOR #18

SCALE: 1 1/2" = 1'-0" 1225



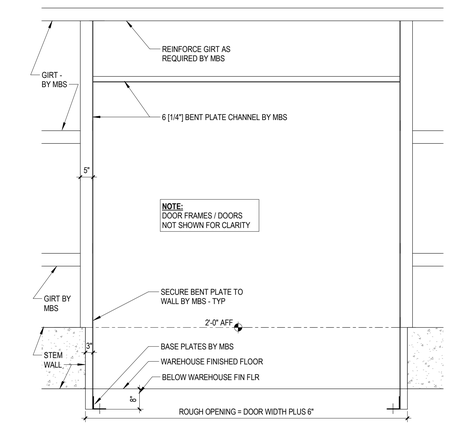
5 ROLLING SERVICE DOOR JAMB AT LOADING DOCK

SCALE: 3" = 1'-0" 0615



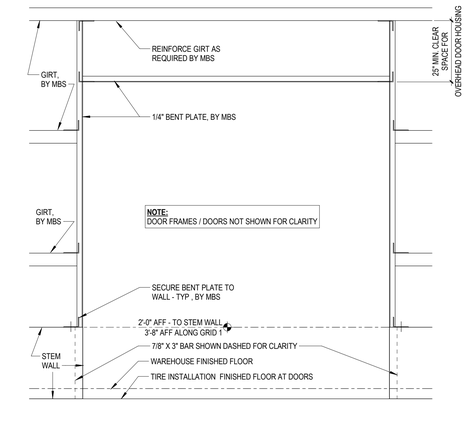
15 GLAZED OVERHEAD SECTIONAL DOOR AT TIRE INSTALLATION

SCALE: 3" = 1'-0" 1125



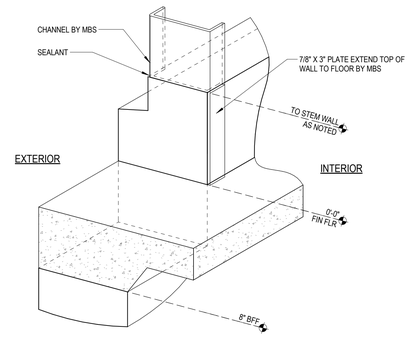
17 ROLLING SERVICE DOOR FRAME AT DOORS #2 & #3

SCALE: 1/2" = 1'-0" 0422



18 ROLLING SERVICE AND OH SECTIONAL DOOR FRAMING

SCALE: 1/2" = 1'-0" 1124



20 STEM WALL AT DOORS

SCALE: 1 1/2" = 1'-0" 0624

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

DOOR DETAILS

A602.2

12/22/2025 9:42:39 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DOES NOT INCLUDE ITEMS
LEES SUMMIT, MISSOURI
03/26/2026 4:03:49

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO
WHOLESALE
CORPORATION

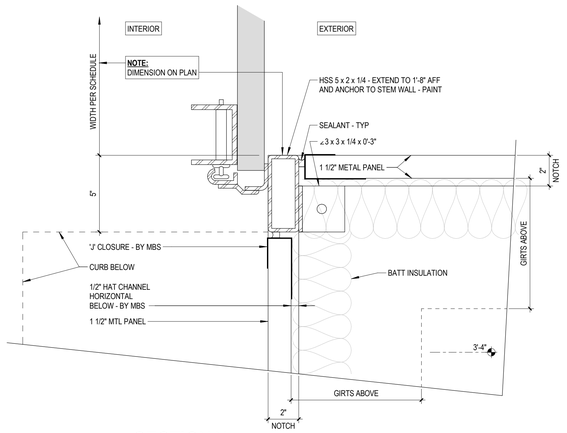
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101

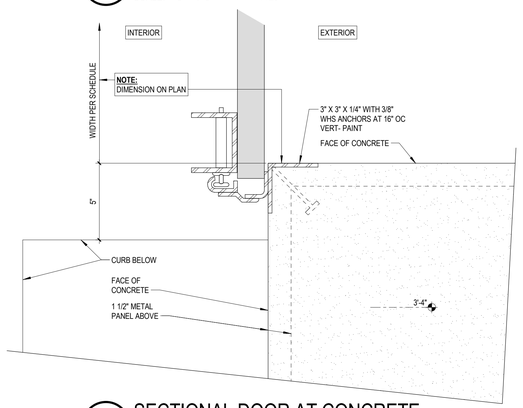
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

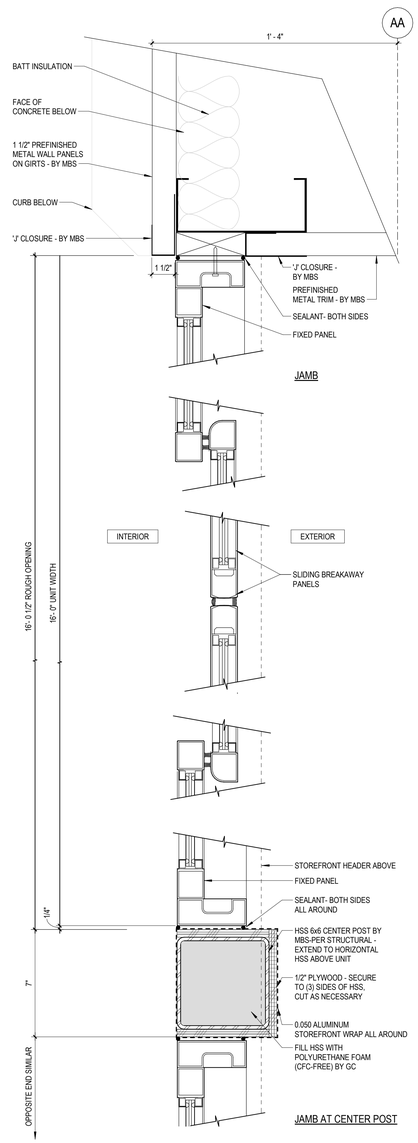
ISSUE FOR
PERMIT



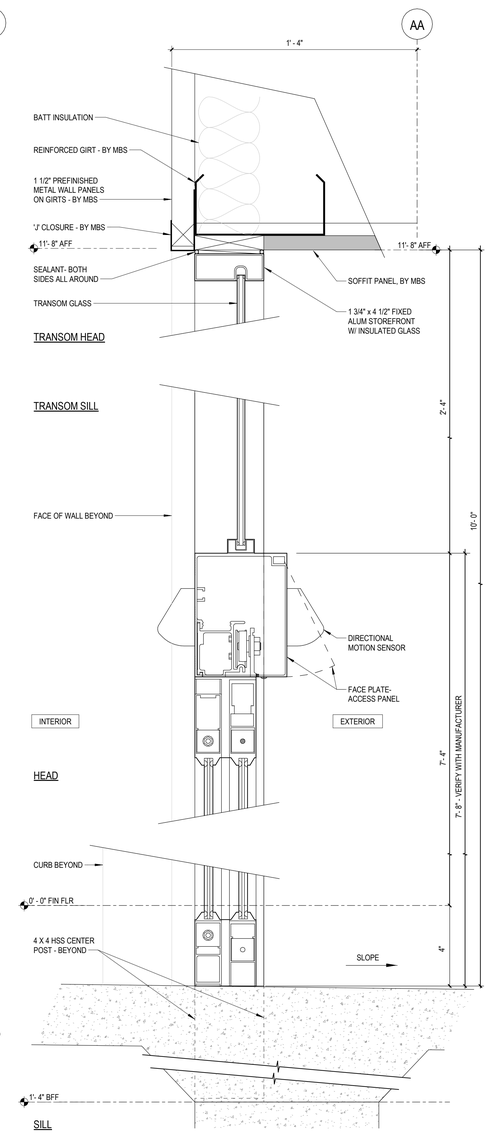
13 SECTIONAL
DOOR AT METAL PANEL COLUMN WRAP
SCALE: 3" = 1'-0" 1125



18 SECTIONAL DOOR AT CONCRETE
SCALE: 3" = 1'-0" 1125



19 AUTOMATIC SLIDING DOOR PLAN
SCALE: 3" = 1'-0" 0924



20 AUTOMATIC SLIDING DOORS WITH TRANSOM
SCALE: 3" = 1'-0" 0624 (VERTICAL SECTION)

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

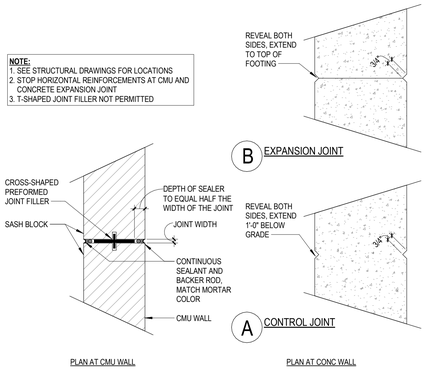
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

ENCLOSED CANOPY
DOOR DETAILS

A602.3

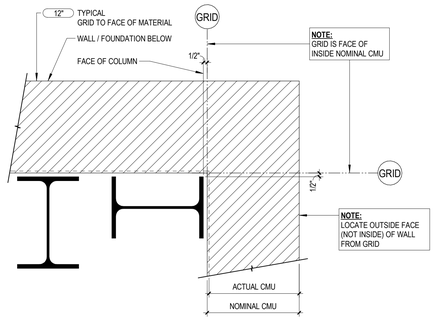
12/22/2025 9:42:40 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEWED
BY LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:49



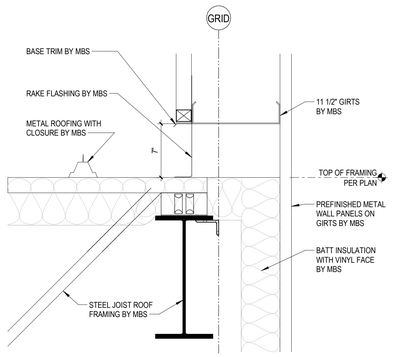
1 AT EXPANSION AND CONTROL JOINT

SCALE: 1 1/2" = 1'-0" 0622



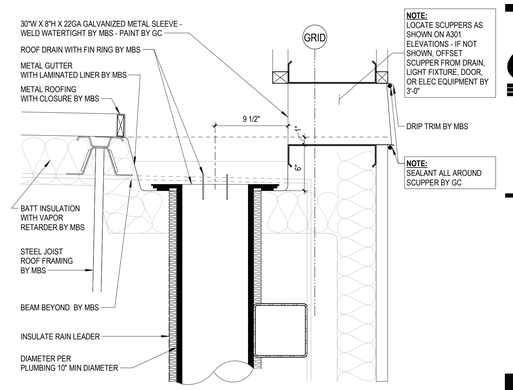
2 WALL TO COLUMN LAYOUT

SCALE: 1 1/2" = 1'-0" 1123



4 BASE FLASHING

SCALE: 1 1/2" = 1'-0" 0724 (AT PARAPET)

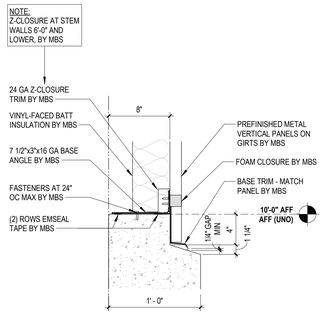


5 ROOF DRAIN SCUPPER AND GUTTER

SCALE: 1 1/2" = 1'-0" 0924

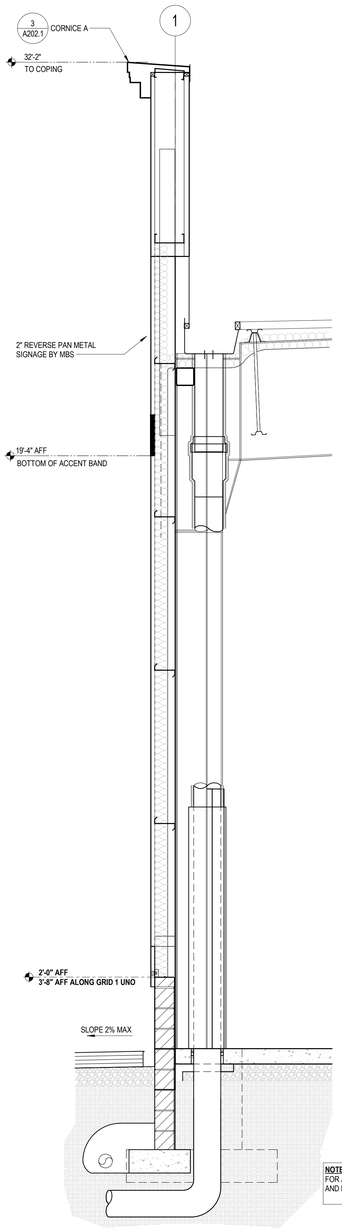
16 CMU STEM WALL SILL

SCALE: 1 1/2" = 1'-0" 0624



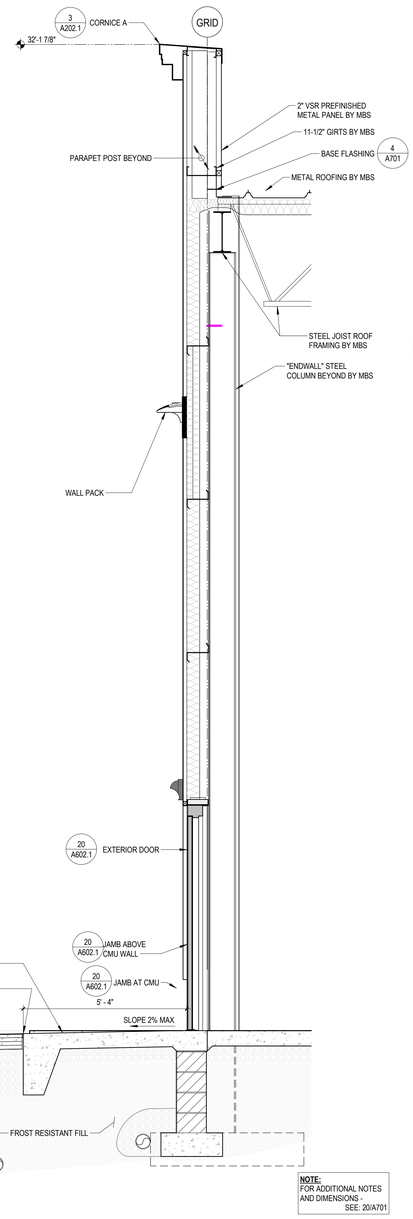
17 PANELS AT COMPACTOR

SCALE: 1 1/2" = 1'-0" 1223



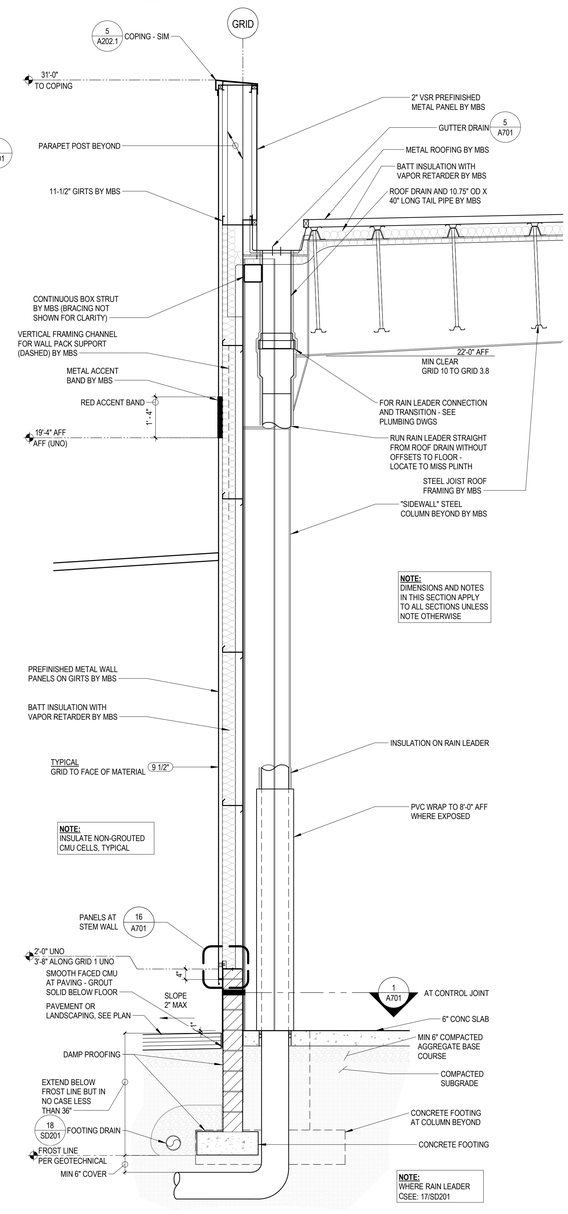
18 AT SIGN

SCALE: 1/2" = 1'-0" 0225 (EXCEPT AT CANOPY)



19 AT EGRESS DOOR

SCALE: 1/2" = 1'-0" 0225



20 TYPICAL WALL (SHOWN AT GUTTER)

SCALE: 1/2" = 1'-0" 0225

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

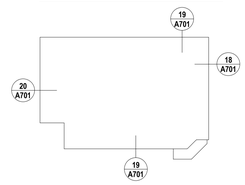
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

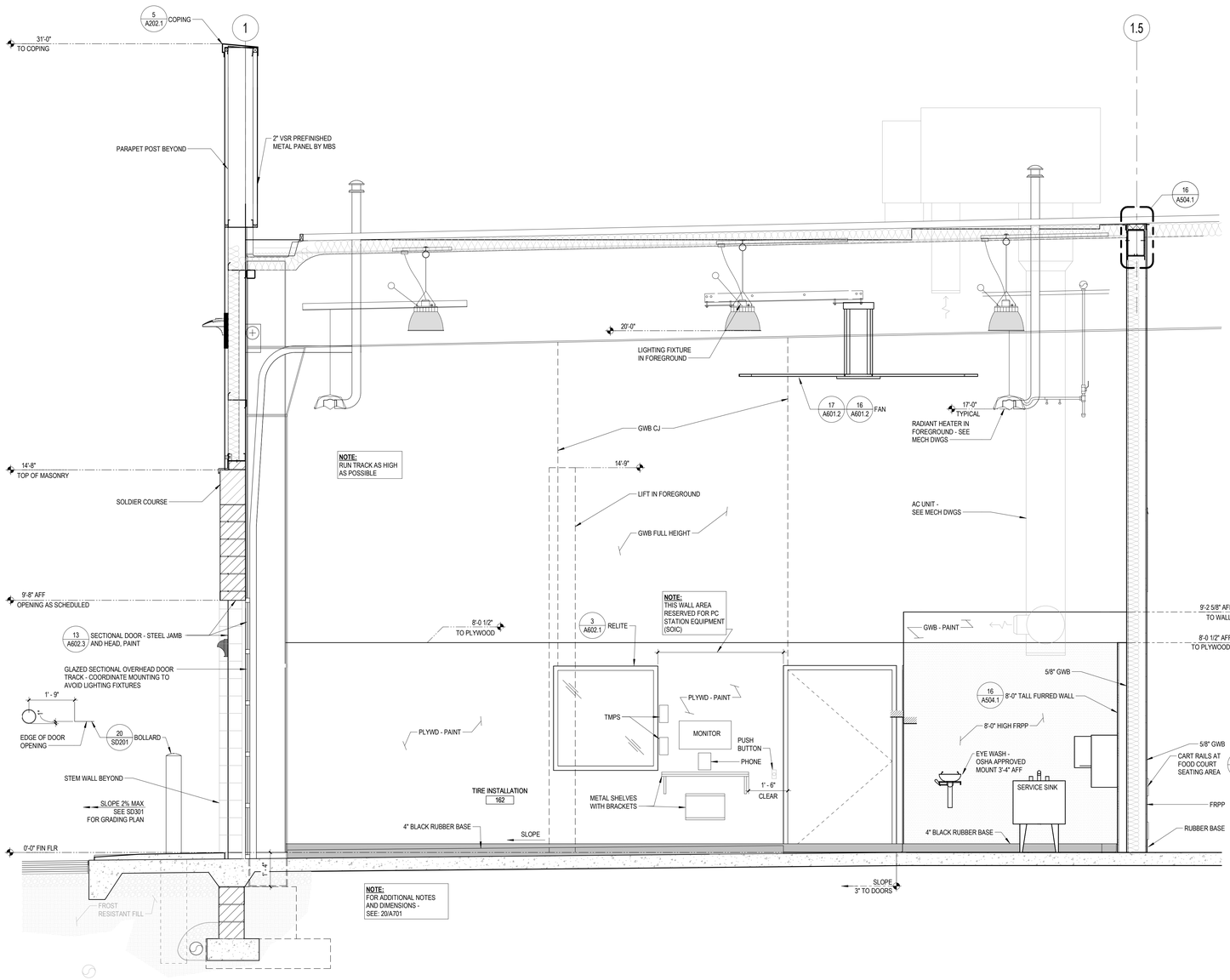
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

WALL SECTIONS AND DETAILS

A701

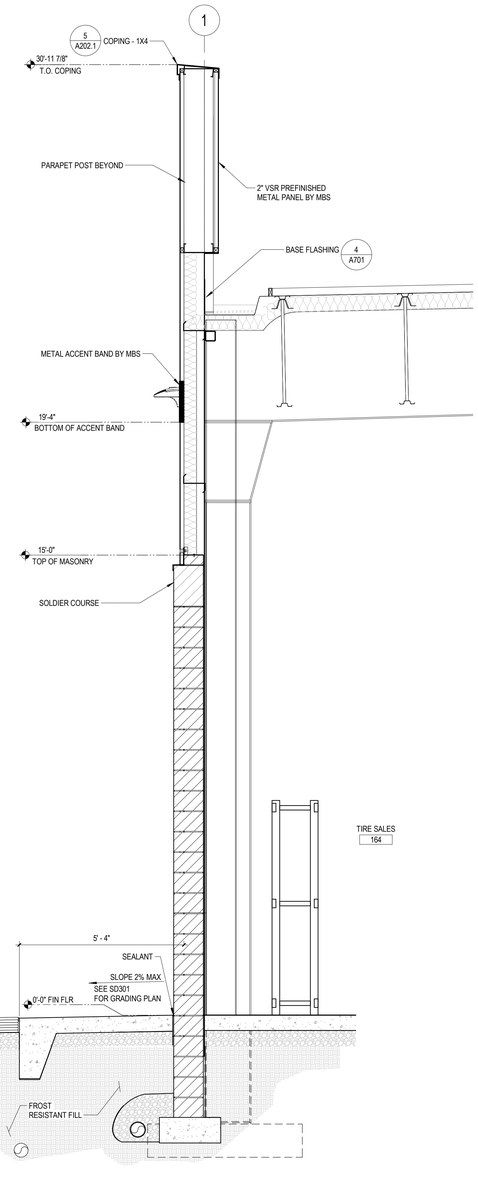
Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt
12/22/2025 9:42:42 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:50



16 AT TIRE INSTALLATION

SCALE: 1/2" = 1'-0" 1125



20 AT TIRE SALES

SCALE: 1/2" = 1'-0" 0225

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO
WHOLESALE
CORPORATION

730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

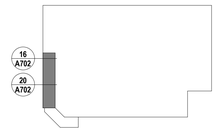
1101 Second Ave, Ste 100
Seattle, WA 98101

206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR
PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

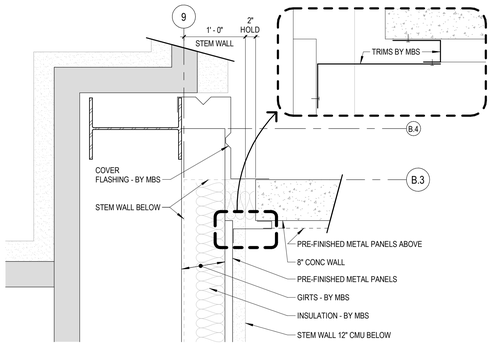
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

TIRE CENTER
SECTIONS

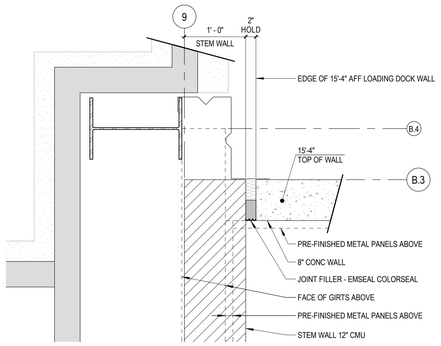
A702

12/22/2025 9:42:44 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
GOVERNING AGENCIES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:50



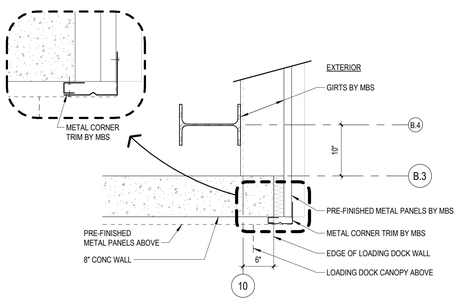
ABOVE STEM WALL



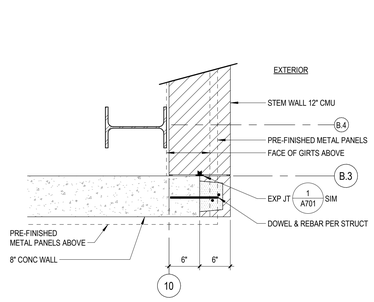
AT STEM WALL

1 LOADING DOCK CORNER AT GRID 9

SCALE: 1" = 1'-0" 0424



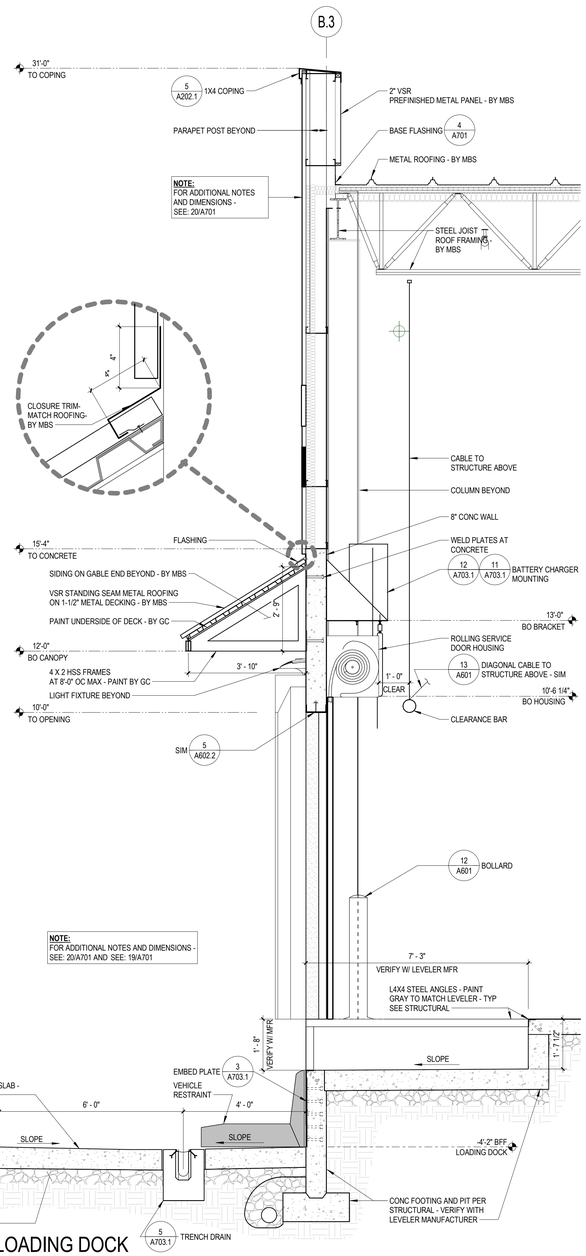
ABOVE STEM WALL



AT STEM WALL

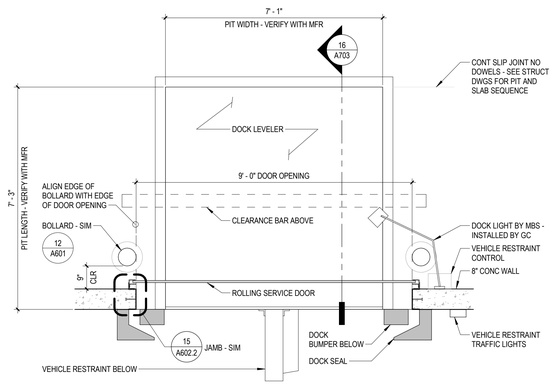
3 LOADING DOCK CORNER AT GRID 10

SCALE: 1" = 1'-0" 0424



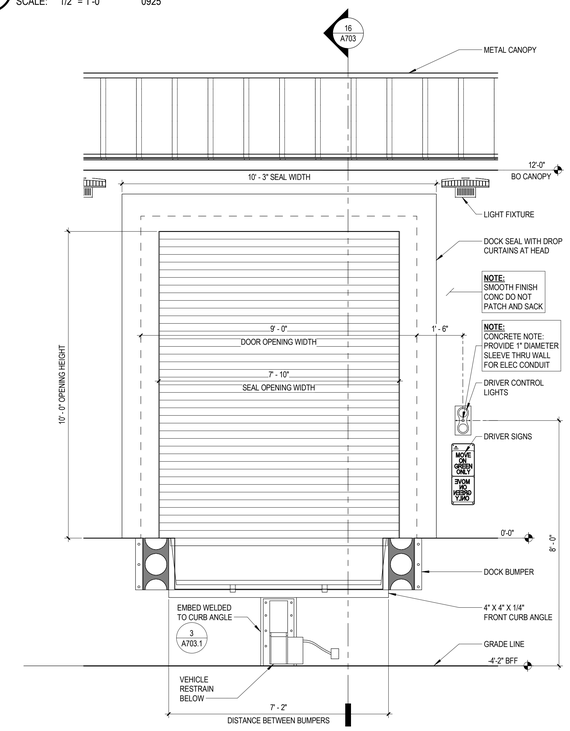
16 AT LOADING DOCK

SCALE: 1/2" = 1'-0" 0824



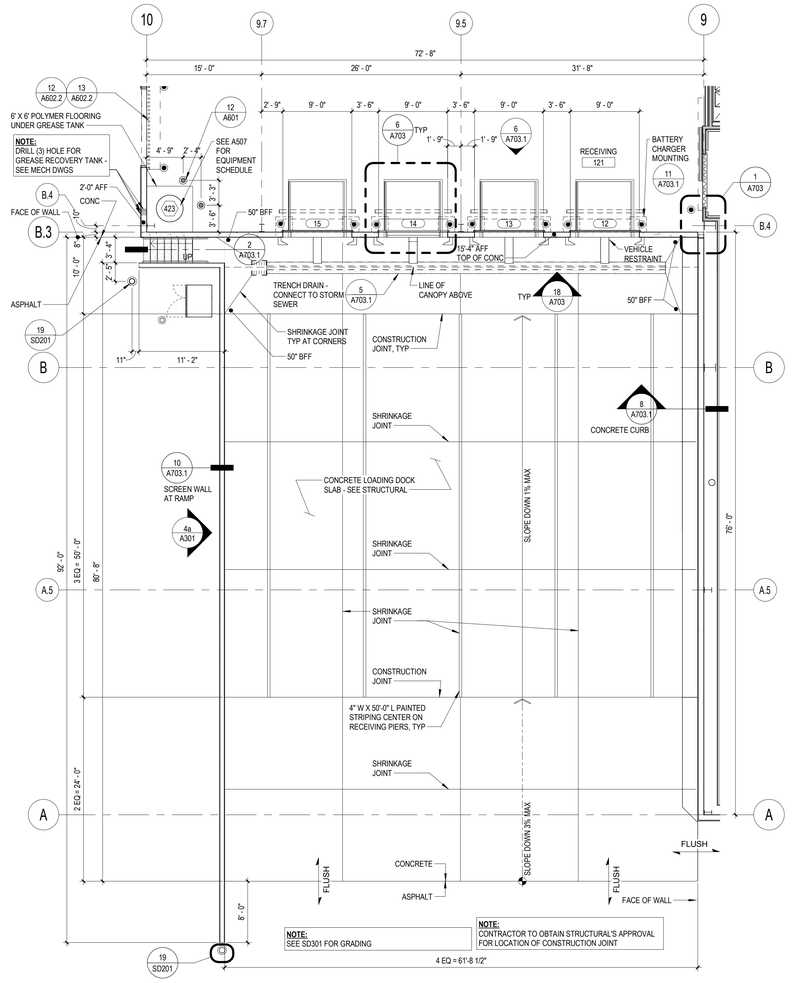
6 DOCK LEVELER PLAN

SCALE: 1/2" = 1'-0" 0925



18 LOADING DOCK DOOR ELEVATION

SCALE: 1/2" = 1'-0" 0925



20 ENLARGED LOADING DOCK PLAN

SCALE: 1/8" = 1'-0" 1125

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO
WHOLESALE
CORPORATION

730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101

206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

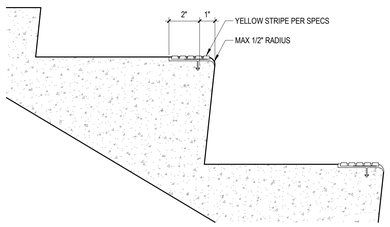
25-5563-01
PM: WILLIE MAK
DRAWN BY:Author
12/22/25

LOADING DOCK PLAN, SECTION, AND DETAILS

A703

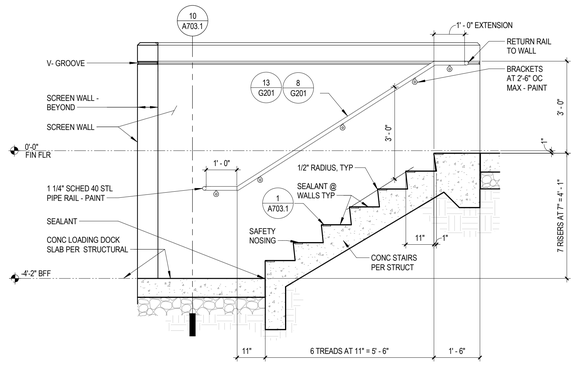
12/22/2025 9:42:46 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
COSTCO WHOLESALE
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:50



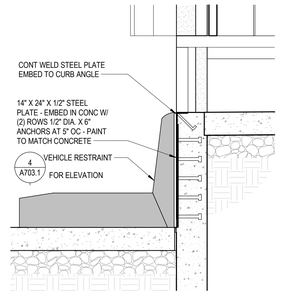
1 SAFETY NOSING

SCALE: 3" = 1'-0" 1121



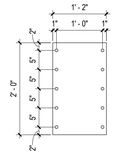
2 LOADING DOCK STAIR AND RAILING

SCALE: 1/2" = 1'-0" 0624



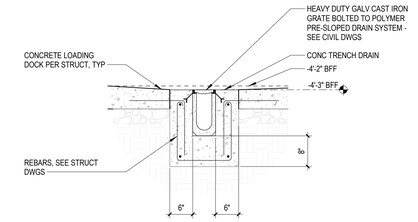
3 EMBED PLATE AT TRAILER RESTRAINT

SCALE: 3/4" = 1'-0" 0721



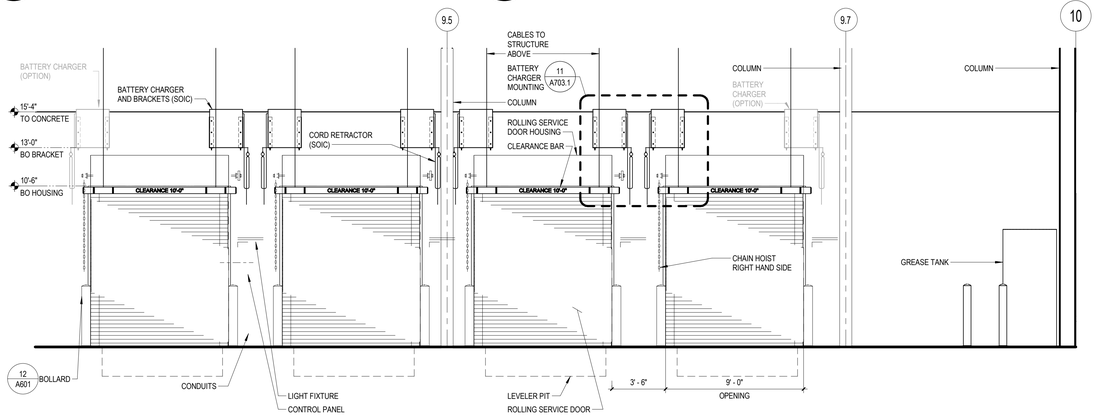
4 PLATE ELEVATION

SCALE: 3/4" = 1'-0" 0721



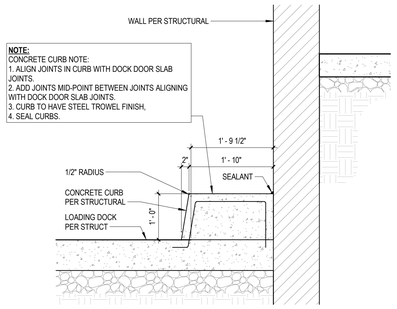
5 LOADING DOCK TRENCH DRAIN

SCALE: 3/4" = 1'-0" 0624



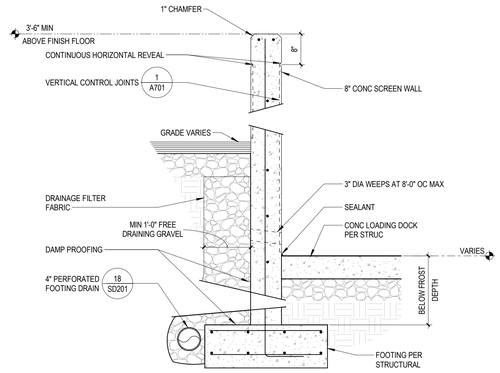
6 LOADING DOCK FROM RECEIVING

SCALE: 1/4" = 1'-0" 1024



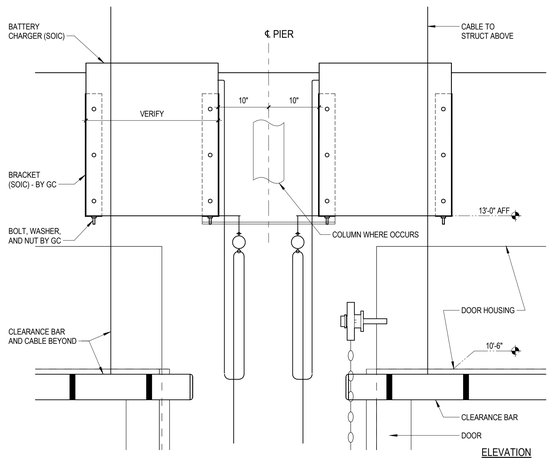
8 LOADING DOCK CURB

SCALE: 3/4" = 1'-0" 0824



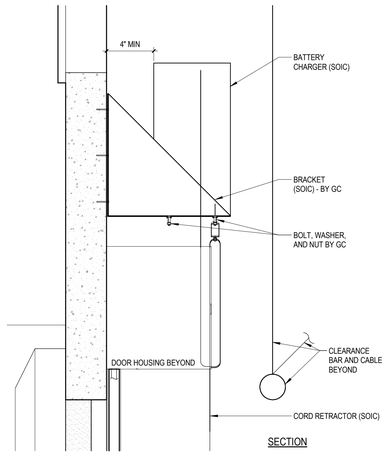
10 SCREEN WALL AT RAMP

SCALE: 3/4" = 1'-0" 0425



11 BATTERY CHARGER MOUNTING

SCALE: 1" = 1'-0" 1221



12 BATTERY CHARGER - SECTION

SCALE: 1" = 1'-0" 1221

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571
STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

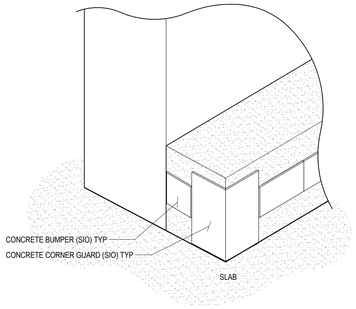
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

LOADING DOCK ELEVATIONS, SECTION, AND DETAILS

A703.1

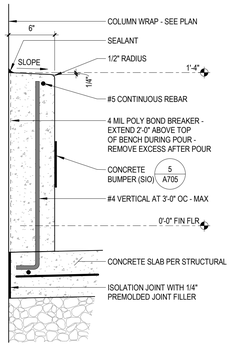
12/22/2025 9:42:48 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF THE ABOVE REFERENCES
LEES SUMMIT, MISSOURI
03/26/2026 4:03:50



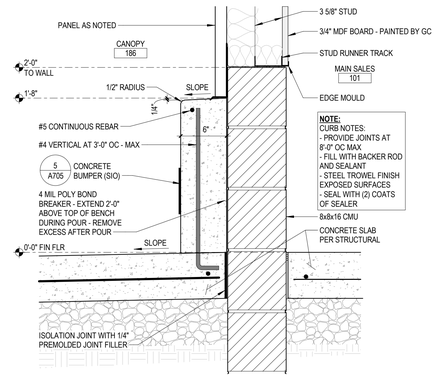
1 CONCRETE BUMPER AND CORNER GUARD

SCALE: NOT TO SCALE 1024



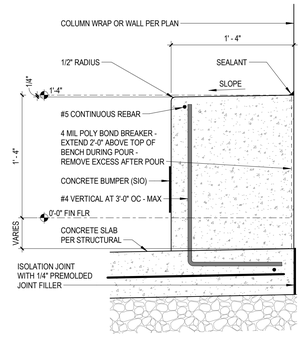
2 CURB AT COLUMN WRAP

SCALE: 1 1/2" = 1'-0" 0924



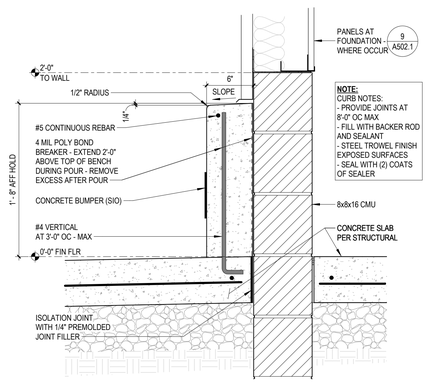
3 CURB AT WAREHOUSE SKEW WALL

SCALE: 1 1/2" = 1'-0" 0325



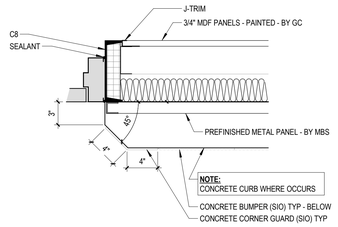
4 BENCH

SCALE: 1 1/2" = 1'-0" 1125



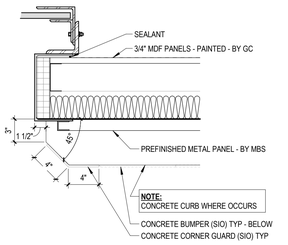
5 CURB AT WAREHOUSE WALL ALONG GRID-A

SCALE: 1 1/2" = 1'-0" 1124



9 CURB AT SWING DOOR

SCALE: 1 1/2" = 1'-0" 0422

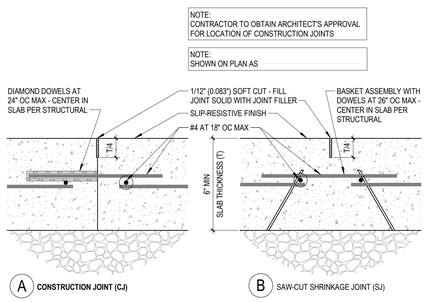


10 CURB AT DOOR

SCALE: 1 1/2" = 1'-0" 0422

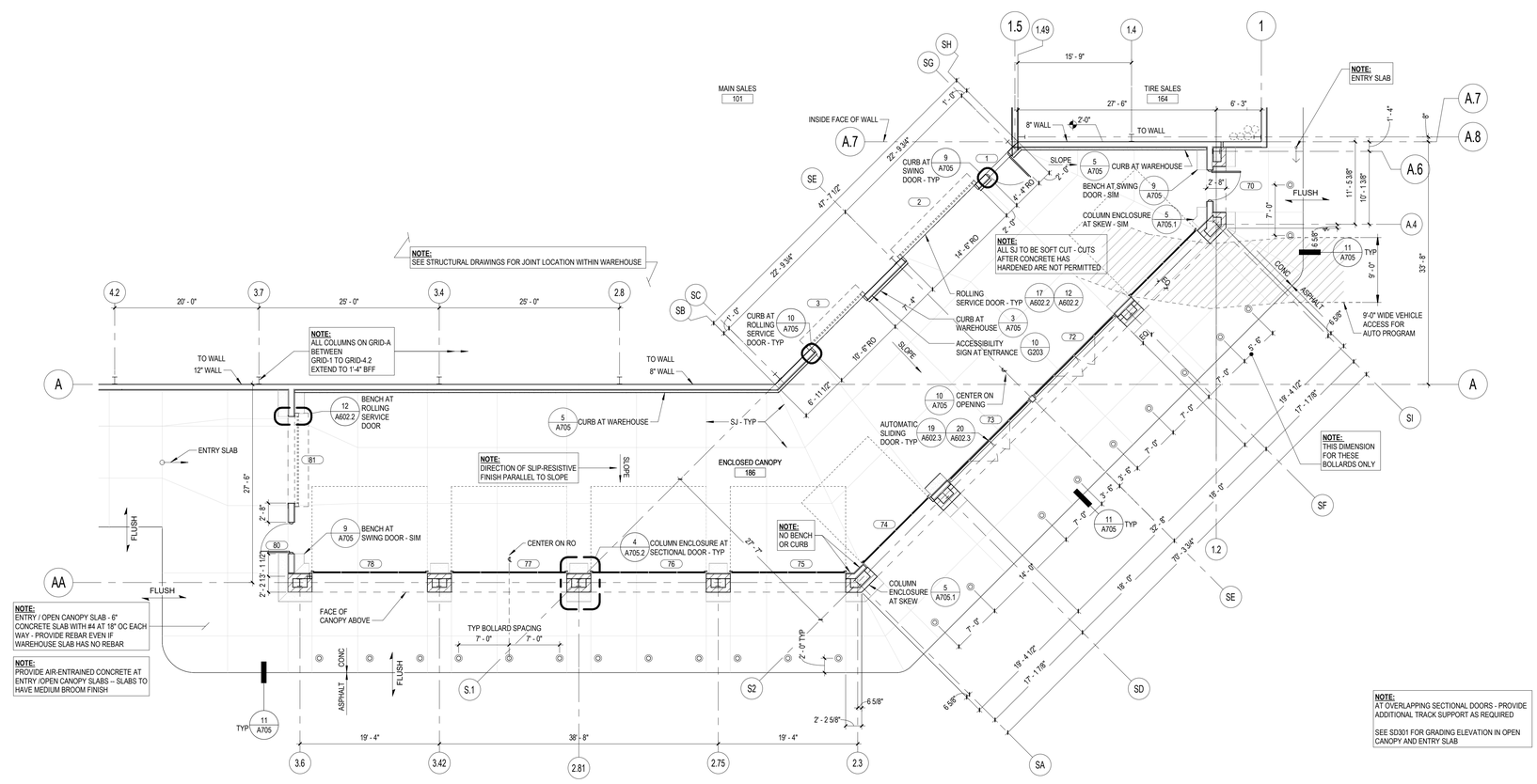
11 EDGE OF CANOPY SLAB

SCALE: 1 1/2" = 1'-0" 0423



16 SLAB JOINTS AT CANOPY

SCALE: 1 1/2" = 1'-0" 1222



17 ENCLOSED CANOPY ENLARGED PLAN

SCALE: 1/8" = 1'-0" 1125

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

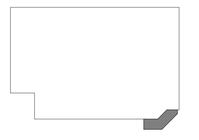
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

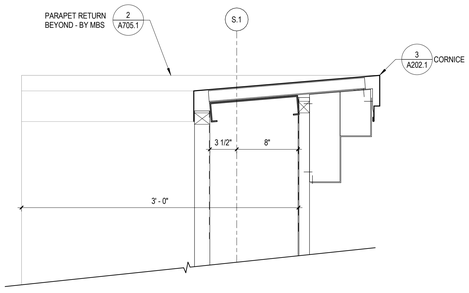
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

CANOPY ENLARGED PLAN AND DETAILS

A705

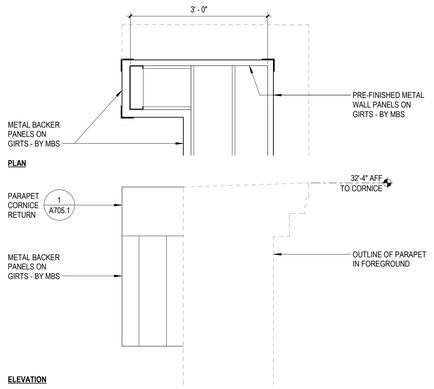
12/22/2025 9:42:51 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OCCUPANCY SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:50



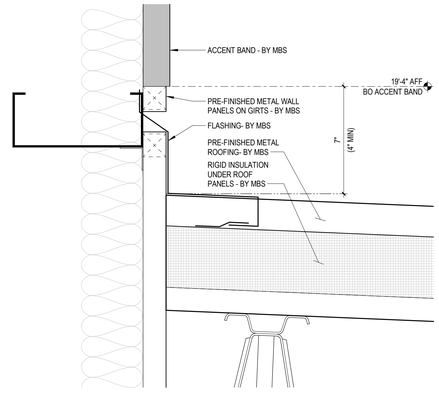
1 CORNICE AT GRID-S.1

SCALE: 1 1/2" = 1'-0" 0424



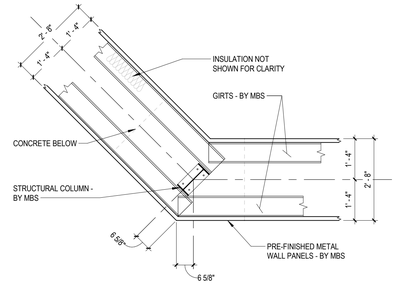
2 PARAPET RETURN ALONG GRID-S.1

SCALE: 3/4" = 1'-0" 0424



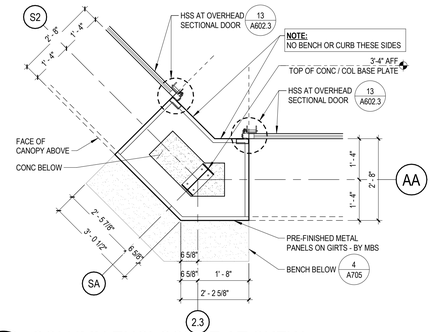
3 ROOF TO WALL FLASHING

SCALE: 3" = 1'-0" 0225



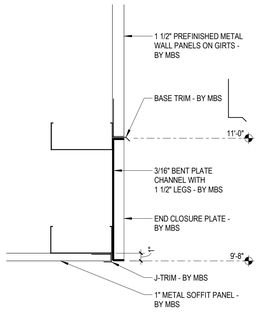
4 COLUMN ENCLOSURE ABOVE SOFFIT

SCALE: 1/2" = 1'-0" 0424



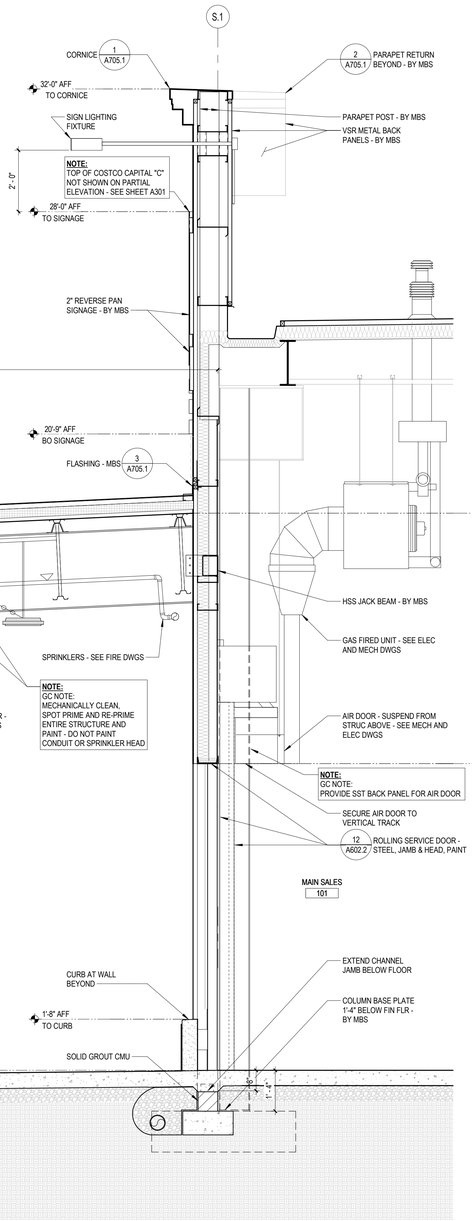
5 COLUMN ENCLOSURE AT SKEW

SCALE: 1/2" = 1'-0" 1125



6 TRIM CHANNEL AT SOFFIT

SCALE: 1 1/2" = 1'-0" 0124



16 CANOPY AT ENTRY DOOR

SCALE: 1/2" = 1'-0" 1125

20 PARTIAL CANOPY ENTRY PORTAL ELEVATION

SCALE: 1/2" = 1'-0" 1125

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

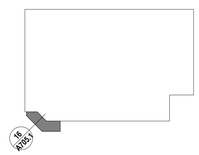
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

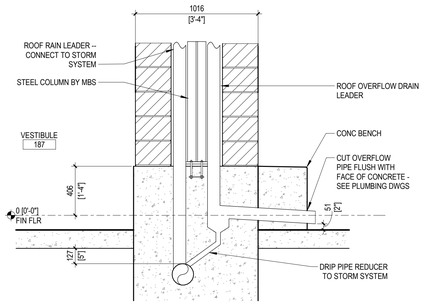
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

CANOPY ENTRY SECTIONS AND PARTIAL ELEVATION

A705.1

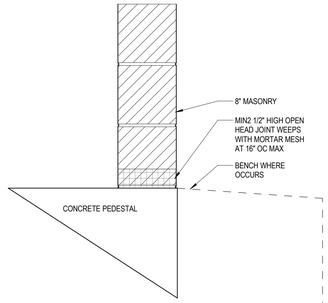
12/22/2025 9:42:55 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
OF CONSTRUCTION DOCUMENTS
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:50



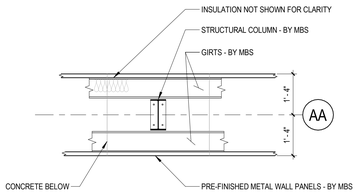
1 OVERFLOW DRAIN LEADER AT PIER

SCALE: 1 : 20 1125



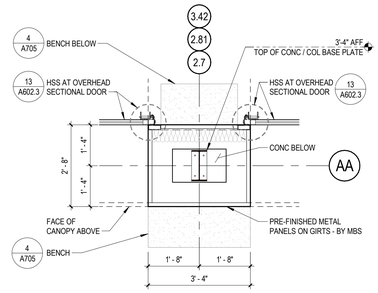
2 WEEPS AT COLUMN WRAP BASE

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



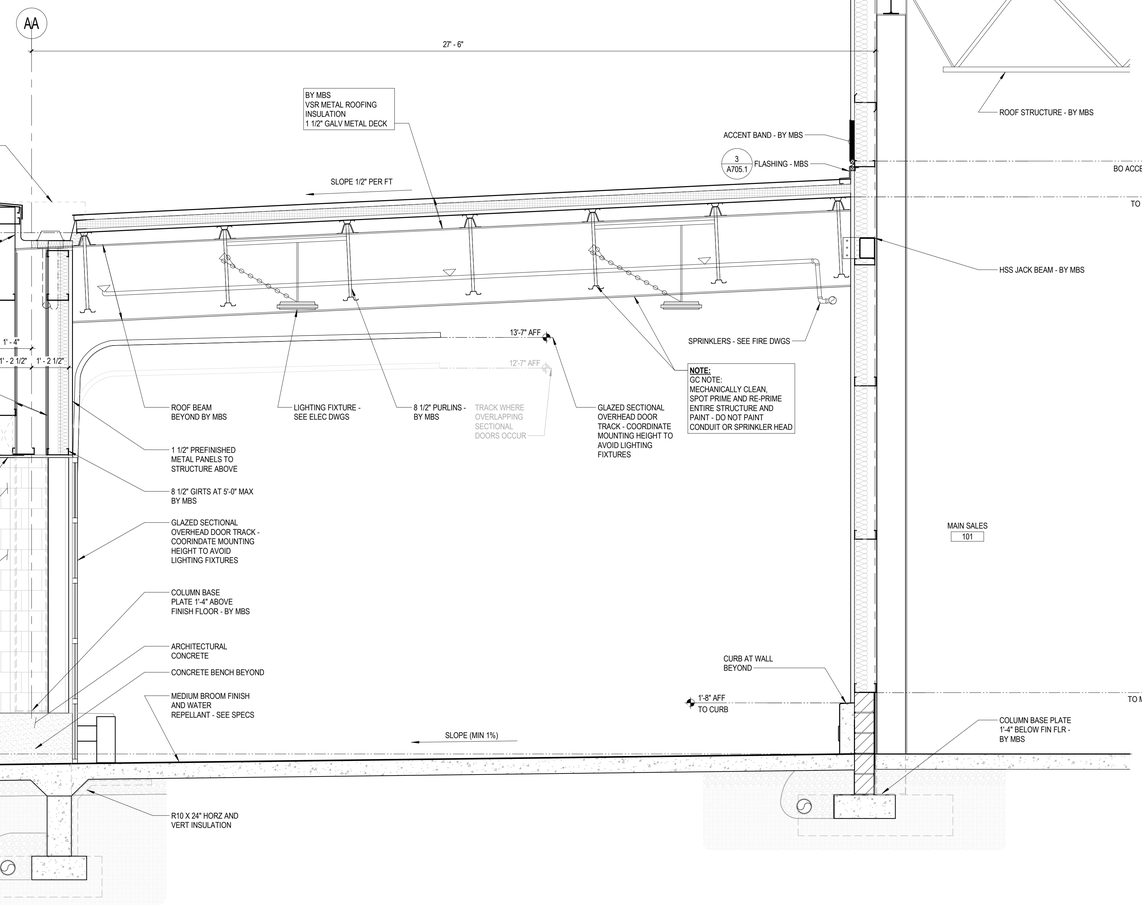
3 COLUMN ENCLOSURE ABOVE SOFFIT

SCALE: 1/2" = 1'-0" 0424



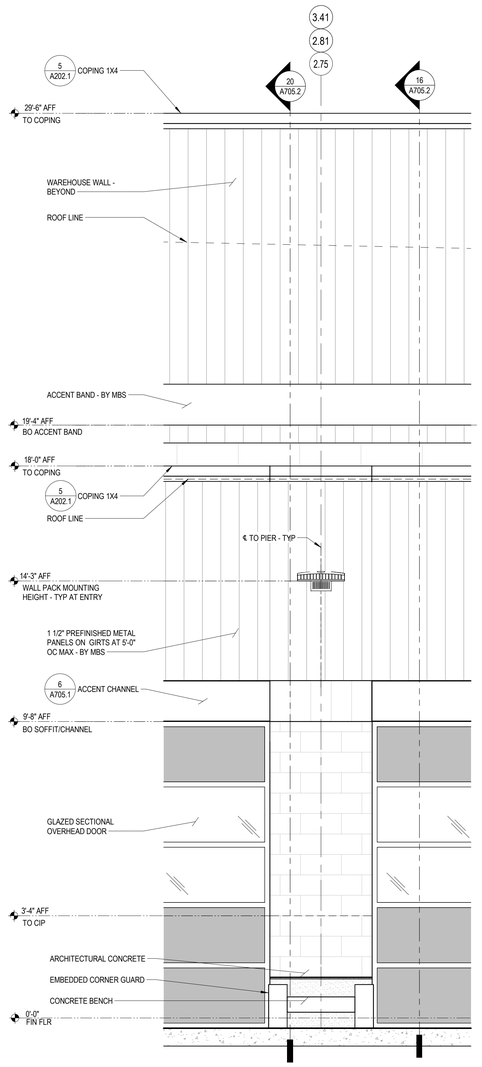
4 COLUMN ENCLOSURE

SCALE: 1/2" = 1'-0" 1125



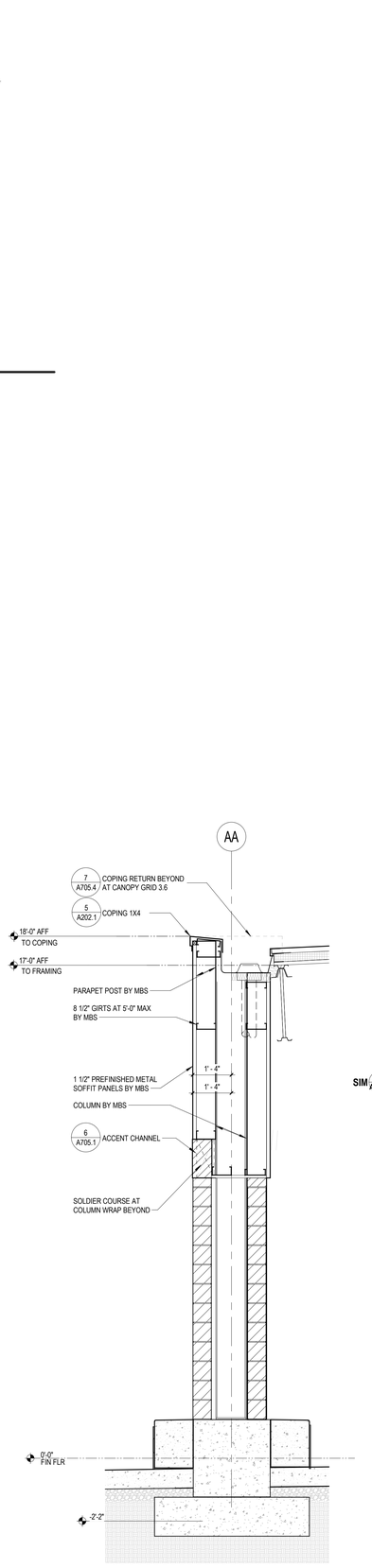
16 CANOPY AT SECTIONAL DOOR - TYPICAL

SCALE: 1/2" = 1'-0" 1125



19 PARTIAL ELEVATION AT COLUMN

SCALE: 1/2" = 1'-0" 1125



20 CANOPY AT COLUMN WRAP - TYPICAL

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

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

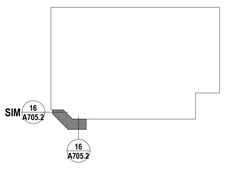
COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

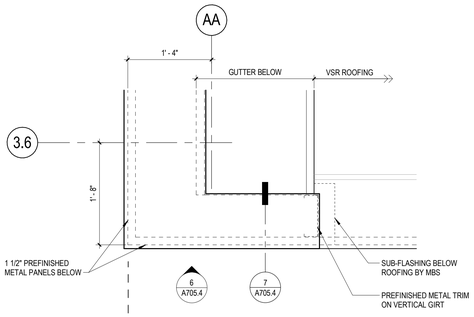
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

CANOPY ENTRY SECTIONS ALONG GRID-AA

A705.2

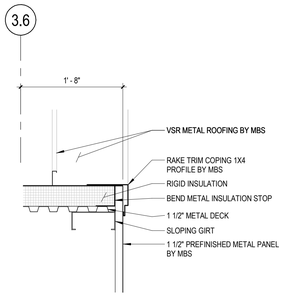
12/22/2025 9:42:58 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:50



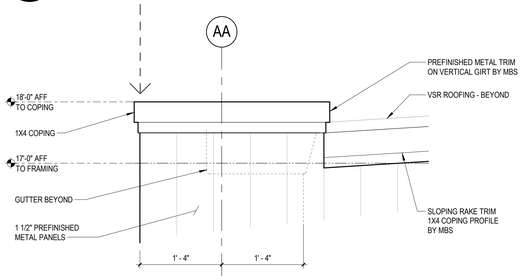
1 COPING RETURN PLAN AT GRIDS AA/3.6

SCALE: 1" = 1'-0" 0624



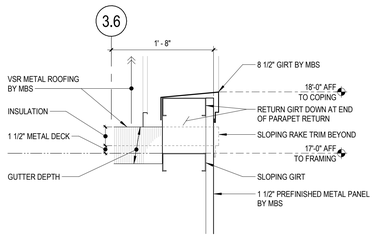
2 CANOPY RAKE TRIM

SCALE: 1" = 1'-0" 0624



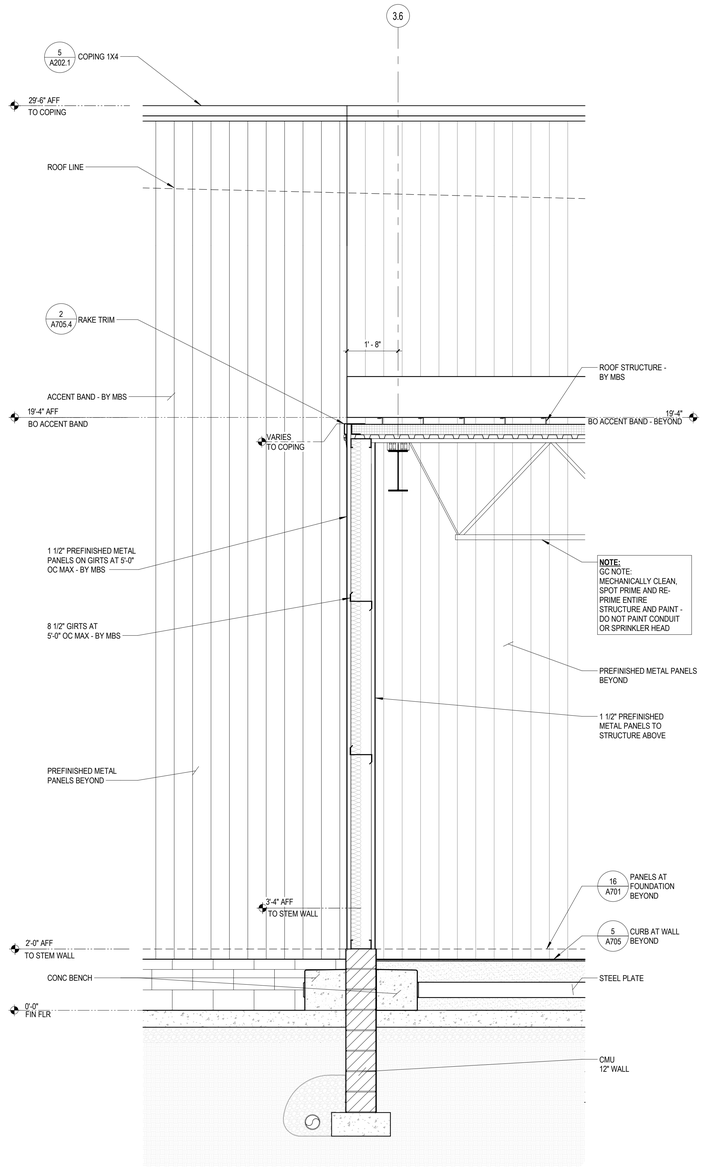
6 CANOPY END ELEVATION AT GRIDS AA/3.6

SCALE: 1" = 1'-0" 0624



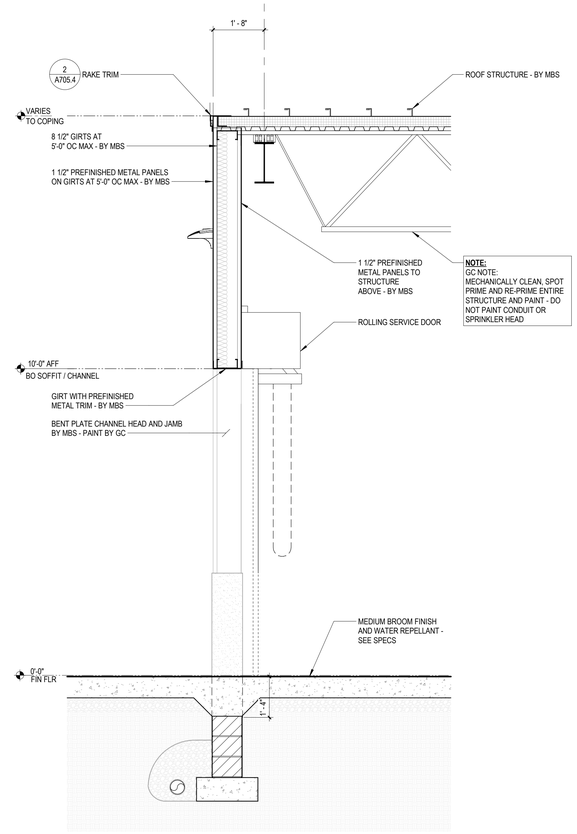
7 CANOPY RAKE TRIM

SCALE: 1" = 1'-0" 0624 (LOOKING TOWARDS WAREHOUSE)



19 CANOPY END WALL AT PANEL

SCALE: 1/2" = 1'-0" 1125



20 CANOPY END WALL AT SERVICE DOOR

SCALE: 1/2" = 1'-0" 0624

COSTCO WHOLESALE

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO
WHOLESALE
CORPORATION

730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

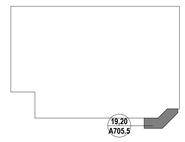
1101 Second Ave, Ste 100
Seattle, WA 98101

206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN



BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER
A-2021040571
ARCHITECT

12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

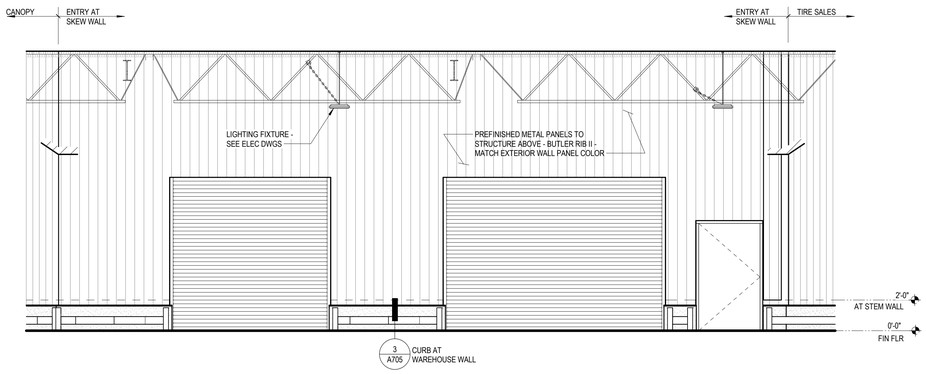
25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

CANOPY END WALL SECTIONS

A705.4

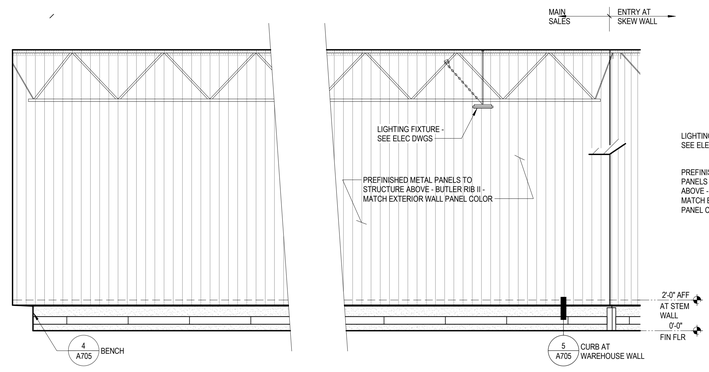
12/22/2025 9:43:00 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
GOVERNING AGENCIES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:50



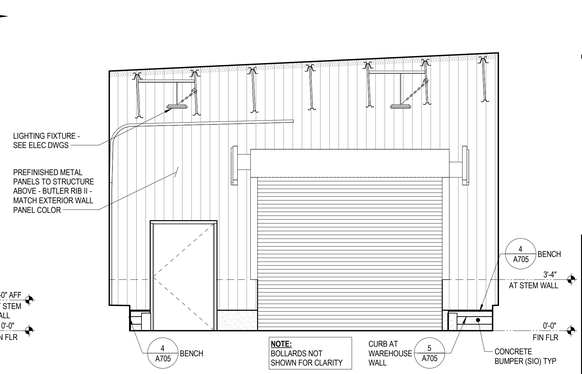
1 ENTRY AT SKEW WALL

SCALE: 1/4" = 1'-0" 0525



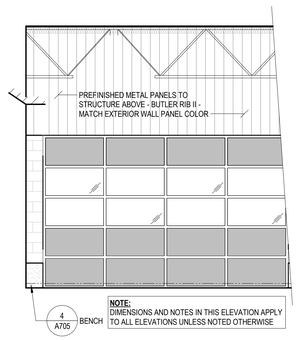
2 ELEVATION OF WALL ALONG GRID-A

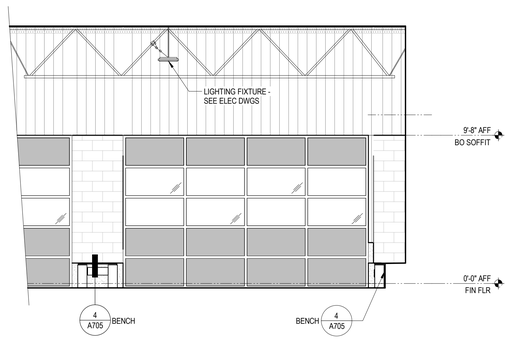
SCALE: 1/4" = 1'-0" 0525



3 ELEVATION OF WALL AT GRID-3.8

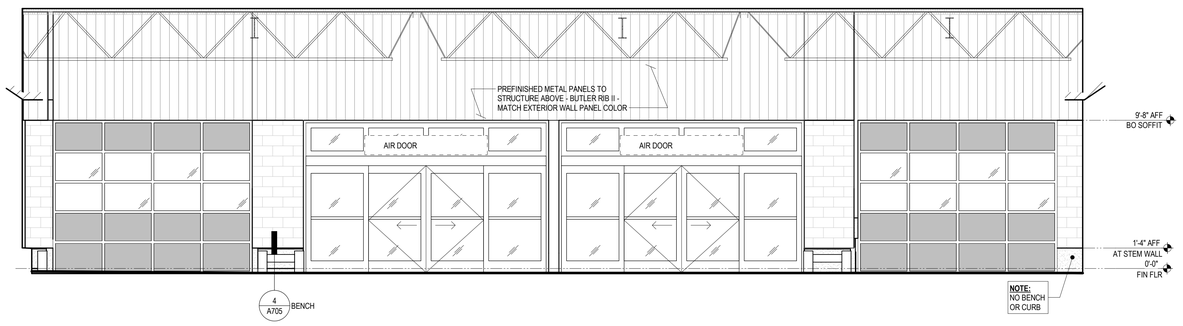
SCALE: 1/4" = 1'-0" 1125





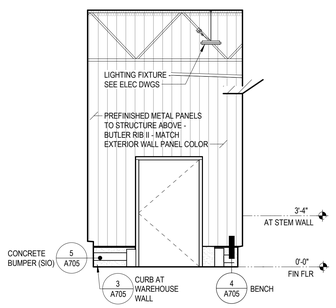
4 ELEVATION OF WALL ALONG GRID-AA

SCALE: 1/4" = 1'-0" 0225



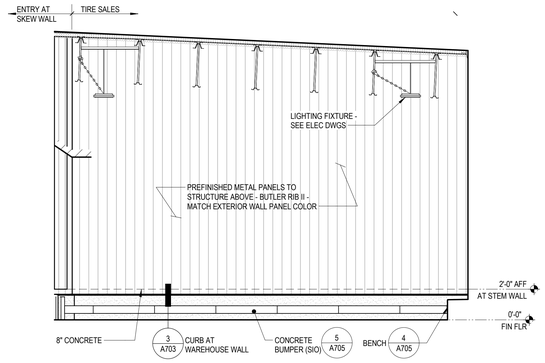
5 ELEVATION AT ENTRY PORTAL

SCALE: 1/4" = 1'-0" 0325



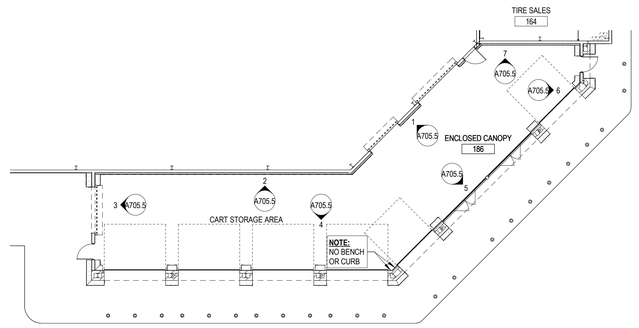
6 ELEVATION OF WALL ALONG GRID-1

SCALE: 1/4" = 1'-0" 0225



7 ELEVATION OF WALL ALONG GRID-A.7

SCALE: 1/4" = 1'-0" 0225



NOTE:
1. DIMENSIONS SHALL BE COORDINATED AND VERIFIED BY GC WITH METAL BUILDING PRIOR TO CONSTRUCTION
2. SUBMIT SPRINKLER SHOP DRAWINGS TO ARCHITECT (WITH FIRE DEPARTMENT) FOR REVIEW PRIOR TO INSTALLATION

9 ELEVATION KEY PLAN

SCALE: 1/16" = 1'-0"

10 SE OLDHAM PKWY
LEE'S SUMMIT, MO

COSTCO WHOLESALE CORPORATION
730 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

1101 Second Ave, Ste 100
Seattle, WA 98101
206 962 6500
MG2.com

MG2 Corporation, P.C.
Missouri Certificate of Authority No. 2000170632

ISSUE FOR PERMIT

KEY PLAN

BRIAN J. BONAR, ARCHITECT
MO No. AR2021040571

STATE OF MISSOURI
BRIAN J. BONAR
NUMBER A-2021040571
ARCHITECT
12/22/2025

© MG2, Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from MG2, Inc.

△	DATE	DESCRIPTION
	12/22/25	PERMIT SET

25-5563-01
PM: WILLIE MAK
DRAWN BY: Author
12/22/25

CANOPY INTERIOR ELEVATIONS

A705.5

12/22/2025 9:43:03 AM Autodesk Docs://Lee's Summit-MO-Warehouse-213-25556301/A_25556301_Lees Summit_MO_Costco_V2_R23_Mirror.rvt

COSTCO WHOLESALE

GENERAL NOTE

THE FOLLOWING NOTES APPLY UNLESS NOTED OTHERWISE - ASTM'S NOTED ARE TO BE LATEST EDITION.

1. DESCRIPTION
   Building Name & Site Location - Costco Wholesale – Lee's Summit, MO
   Metal Building Supplier's Name – Butler Manufacturing Company
   Building Dept. Contact – Joe Frogge

2. DESIGN CODE AND STANDARDS
   Applicable Code (Edition/Name) – 2018 International Building Code (IBC)
   Other documents referenced by these notes shall be the specific edition referenced by the building code specified above, or if not specified, shall be the latest edition.
   Code supplement & Date – ASCE 7-16

3. DESIGN LOADS

a. I. Roof Live Load	See snow load / 20 psf (reducible per code)
II. Slab Live Load	350 psf
III. Platform Live Load	125 psf at mechanical and electrical platform.
b. Snow Load	Basic ground snow load – P_g = 20 psf Basic roof snow load – P_f = 20 psf Importance factor – I_S = 1.0, snow exposure factor – C_e = 1.0 Drifting snow is required in the design.
c. Seismic	Risk Category II S_s = 0.1, S_1 = 0.068, Ie = 1.0, Site Class "C", S_{DS} = 0.087, S_{D1} = 0.068. Seismic Design Category = B Basic Seismic Force Resisting System(s) = Steel ordinary concentric brace frames. CS(ULT) = 0.027, R = 3.25. Equivalent lateral force procedure was used. Mech. & Refrigeration unit loads will be picked up at the point of the units and transferred into the lateral system. Sprinkler lines will be braced to top of girders or top chord of steel truss, by the sprinkler contractor.
d. Wind Load	Risk Category II Basic wind speed (3 sec. gust) V_{ULT} = 109 mph, V_{ASD} = 85 mph Exposure C. K_{zt} = 1.0 Ke=1.0 IBC Load Cases per sec. 1605.2 or 1605.3.1 only K_d = 0.85 Importance factor 1.0. 2 psf of collateral loads was used in uplift design.
e. Collateral Load	(not including mechanical units or draft curtains) Joist 5 min plus sprinkler concentrated loads, (as an alternate, MBS May use 8 psf min. w/o specific sprinkler loads) Frames 4 psf. Min. plus sprinkler concentrated loads.
f. Dead loads	Weight of structure.
g. Special Loads	The following special loads are to be considered: Mechanical equipment on roof. Sprinkler lines, canopy & other reactions as noted on structural drawings.
h. Future Rooftop Solar Panels	Included in design. Add 2 psf to frames and 4 psf to joists for gravity load case. Add 2 psf to roof for seismic design. Excluded in design. (Engineer to cross out non-applicable information.)
i. Load Combinations	All Code required load combinations are to be used in the building design.

   Column reactions from these load combinations are to be given to the foundation engineer.
   j. Lateral building drift at all points is limited to lesser of eave height/60 & ENW drawings.
   k. All special design requirements for the roof diaphragm indicated on the structural drawings have been complied with. Hardwall building only.

5. VERIFICATION
   Butler Mfg. is to verify all design information listed above and notify Engineers Northwest of any discrepancies prior to metal building design.

OSHA STANDARDS
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROVISIONS OF THE CURRENT OSHA STANDARDS. THE GENERAL CONTRACTOR SHALL REVIEW THESE STRUCTURAL DRAWINGS FOR ANY NONCOMPLIANCE WITH OSHA STANDARDS, TAKING INTO ACCOUNT THE GENERAL CONTRACTOR 'S MEANS AND METHODS. THE GENERAL CONTRACTOR SHALL INFORM ENW OF ANY NONCOMPLIANCE SO THE DRAWINGS MAY BE MODIFIED FOR COMPLIANCE PRIOR TO CONSTRUCTION. THE GENERAL CONTRACTOR IS TOTALLY RESPONSIBLE FOR MEANS AND METHODS AS WELL AS JOBSITE SAFETY ON THIS PROJECT.

FOUNDATION & SLABS
THE FOUNDATION WAS DESIGNED WITH AN ALLOWABLE SOIL BEARING CAPACITY OF 2500PSF, IN ACCORDANCE WITH SOILS REPORT NO. 02255162 DATED AUGUST 6, 2025 PREPARED BY TERRACON. THE SITE SHALL BE PREPARED PER SOILS ENGINEER RECOMMENDATIONS. ALL FOOTINGS AND SLABS SHALL BEAR SOLELY ON MATERIAL PREPARED PER SOILS REPORT. ALL ENGINEERED FILL AND BACKFILL TO BE COMPACTED PER SOILS ENGINEER RECOMMENDATIONS. THE MAXIMUM DENSITY SHALL BE DETERMINED BY SOILS ENGINEER. ALL EXTERIOR FOOTINGS TO BE FOUNDED 36" MIN. BELOW FINAL GRADE. FOOTING STEP LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR TO VERIFY AND COORDINATE FOOTING STEPS WITH CIVIL ENGINEER TO FINISH GRADE PLANS. ADD FOOTING STEPS AS REQUIRED. A COEFFICIENT OF FRICTION OF 0.30 BELOW FOOTINGS AND PASSIVE RESISTANCE OF 290 PCF. FOR CANTILEVERED RETAINING WALLS WITH LEVEL BACK FILL USE AN ACTIVE PRESSURE OF 40 PCF (USE NON-EXPANSIVE GRANULAR BACK FILL PER SOILS REPORT) AND A 250 PSF SURCHARGE WHERE TRUCK TRAFFIC CAN OCCUR. SEE ARCH. AND SOILS REPORT FOR SLAB ON GRADE UNDERLAYMENT. ALL EXTERIOR SIDEWALK AND INTERIOR SLABS SHALL BEAR ON SOILS PREPARED PER AND APPROVED BY SOILS ENGINEER AND HAVE AN ALLOWABLE BEARING CAPACITY OF AT LEAST 1000 PSF.

CONCRETE
F'c=4000 PSI. @ 28 DAYS 5-1/2 SACKS MINIMUM CEMENT PER CUBIC YARD FOR ALL CONCRETE SLABS.
F'c=3000 PSI. @ 28 DAYS 5-1/2 SACKS MINIMUM CEMENT PER CUBIC YARD FOR ALL OTHER.
USE TYPE I/IL/II CEMENT. USE TYPE III (HIGH EARLY STRENGTH) CEMENT FOR PLATFORM. FOR SPECIAL CONDITIONS ANOTHER TYPE CEMENT MAY BE REQUIRED. SUBMIT FOR APPROVAL. ULTIMATE STRENGTH DESIGN METHOD USED. MIXING AND PLACING OF ALL CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE ACI CODE 318. PROPORTIONING OF AGGREGATE TO CEMENT SHALL BE SUCH AS TO PRODUCE A DENSE WORKABLE MIX WITH 4" MAXIMUM SLUMP (UNLESS SUPERPLASTICIZERS ARE USED) WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. FOR ADMIXTURES, SEE SPECIFICATIONS. MAXIMUM WATER/CEMENT RATIO = 0.49. 3/4" CHAMFER ALL EXPOSED EDGES, UNLESS INDICATED OTHERWISE ON ARCHITECTURAL DRAWINGS. WATER CURING SHALL BE USED. AIR ENTRAIN ALL HORIZONTAL CONCRETE EXPOSED TO WEATHER WITH 3% TO 6% AIR BY VOLUME. DO NOT USE AIR ENTRAINMENT FOR INTERIOR SLABS ON GRADE. LIMIT WATER CEMENT RATIO TO 0.45 AND USE TYPE V CEMENT WHERE SOILS "WATER SOLUBLE SULFATE EXCEEDS 0.20 PERCENT BY WT. ADD NO WATER TO CONCRETE AT SITE. IF INCREASED WORKABILITY IS REQUIRED, CONTRACTOR IS TO SUBMIT A MIX DESIGN THAT WILL ALLOW THE ADDITION OF A FIXED AMOUNT WATER REDUCING AGENT OR A FIXED AMOUNT OF SUPER-PLASTICIZER AT THE CONCRETE PLANT.

A. DO NOT USE FLY ASH, SLAG OR OTHER SUPPLEMENTARY CEMENTITIOUS MATERIALS IN CONCRETE EXPOSED TO VIEW INCLUDING, BUT NOT LIMITED TO, INTERIOR FLOOR SLABS, ENTRY CANOPY SLABS, LOADING DOCK SLABS AND STAIRS, STEM WALLS, LOADING DOCK WALLS, COLUMNS OR PILASTERS, AND EXTERIOR WALKS /PADS.
1. FLY ASH, SLAG AND OTHER SUPPLEMENTARY CEMENTITIOUS MATERIALS MAY BE USED ONLY IN BELOW GRADE CONCRETE SUCH AS FOOTINGS, FOUNDATION WALLS, GRADE BEAMS, AND SIMILAR CONCEALED LOCATIONS.
2. FLY ASH, SLAG AND OTHER SUPPLEMENTARY CEMENTITIOUS MATERIALS MAY BE USED IF DETERMINED THAT THE USE OF SUPPLEMENTARY CEMENTITIOUS MATERIALS WOULD IMPROVE RESISTANCE TO ALKALI-AGGREGATE REACTIVITY IN CONCRETE. OBTAIN WRITTEN APPROVAL FROM OWNER PRIOR TO USE.

ACI 306R IS TO BE FOLLOWED FOR COLD WEATHER CONCRETING. ACI 305R IS TO BE FOLLOWED FOR HOT WEATHER CONCRETING. THE TESTING LAB MUST APPROVE THE CONTRACTORS METHOD OF COMPLIANCE AND CERTIFY THEIR APPROVAL WITH EACH CONCRETE TEST CYLINDER THEY CAST. TESTING LAB TO NOTIFY THE ARCHITECT IMMEDIATELY BY FAX AND PHONE OF ANY NONCOMPLIANCE.

REINFORCING STEEL
ALL CONCRETE REINFORCING STEEL SHALL BE DEFORMED PER ASTM A615, GRADE 60 (fy=60,000 psi) LAP CONTINUOUS REINFORCING BARS 44 BAR DIAMETERS, 1'-10" MINIMUM UNLESS NOTED OTHERWISE. CORNER BARS (1'-10" BEND) TO BE PROVIDED FOR ALL HORIZONTAL REINFORCEMENT. DETAIL STEEL IN ACCORDANCE WITH "ACI MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES". WELDED WIRE FABRIC (WWF) TO CONFORM WITH ASTM A185. REINFORCING HOOKS TO COMPLY WITH STANDARD ACI HOOKS.
COVER TO MAIN REINFORCEMENT TO BE:

BOTTOM OF FOOTINGS		3 INCHES
FORMED SURFACES	WEATHER & EARTH FACE	1-1/2 INCHES
FORMED SURFACES	INTERIOR FACE	3/4 INCHES

SHOULD THE REINFORCING SUPPLIER AND/OR DETAILER CHOOSE TO USE SOFT METRIC, EACH AND EVERY REBAR CALLOUT MUST BE INDICATED WITH BOTH SIZES WITH THE IMPERIAL SIZE FIRST THUS: "#4/#13" NO EXCEPTIONS. A CONVERSION TABLE ALONE IS UNACCEPTABLE. WE WILL CHECK THE SHOP DRAWINGS TO THE IMPERIAL SIZES ONLY. IT WILL BE THE RESPONSIBILITY OF THE REINFORCING SUPPLIER AND THE GENERAL CONTRACTOR TO VERIFY THAT ALL CONVERSIONS TO METRIC SUPPLY AT LEAST THE SAME AREA OF STEEL AS THE IMPERIAL.

PRECAST WALL PANELS
PRECAST WALL PANEL SUPPLIER (W.S.) TO SUPPLY ALL PANELS TO CARRY AND DISTRIBUTE VERTICAL AND LATERAL LOADS TO THE FOUNDATIONS. W.S. TO PROVIDE WALL PANEL DRAWINGS THAT CLEARLY SHOW ALL EMBEDS, DOWELS AND SUPPORTS FOR OPENINGS. W.S. TO ACCOUNT IN THEIR DESIGN FOR THE FOUNDATION SETTLEMENTS AND DIFFERENTIAL SETTLEMENT INDICATED IN THE SOILS REPORT.

REINFORCING STEEL WELDING
USE ASTM A706 GRADE 60 (fy = 60,000 psi) FOR ANY REINFORCING THAT IS TO BE WELDED. FOLLOW PROCEDURES OF ANSI/AWS D1.4-92, "STRUCTURAL WELDING CODE - REINFORCING STEEL". USE E80XX LOW HYDROGEN ELECTRODES CONFORMING TO ANSI/AWS A5.1 OR A5.5. DO NOT WELD REINFORCING IF TEMPERATURE IS BELOW 32 DEGREES FAHRENHEIT. MAINTAIN A MINIMUM PREHEAT AND INTERPASS TEMPERATURE OF 50 DEGREES FAHRENHEIT FOR NO. 7 THROUGH NO.11 BARS. DO NOT WELD NO. 14 AND NO.18 BARS. DO NOT WELD WITHIN 3-INCHES OF BENDS. LET BARS COOL NATURALLY TO AMBIENT TEMPERATURE AFTER WELDING; DO NOT QUENCH. USE CERTIFIED WELDERS. PROVIDE SPECIAL INSPECTION PER CODE. SUBMIT MILL CERTIFICATES.

STRUCTURAL STEEL AND MISCELLANEOUS STEEL
ALL WORK IN ACCORDANCE WITH "AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE "CODE OF STANDARD PRACTICE". STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

WIDE FLANGE SHAPES	ASTM A-992	(Fy=50,000 PSI)
OTHER SHAPES AND PLATES	ASTM A-36	(Fy=36,000 PSI)
TUBE COLUMNS	ASTM A-500, GRADE C	(Fy=50,000 PSI)
WELDHEAD STUDS	ASTM A-108	(Fy=55,000 PSI)
ALL-THREAD	ASTM F1554, GRADE 36	(Fy=36,000 PSI)
MACHINE BOLTS	ASTM A-307	
HIGH STRENGTH BOLTS	ASTM A-325N (U.N.O.)	

ALL STRUCTURAL STEEL BOLTED CONNECTIONS AT MECHANICAL PLATFORMS ARE ASTM A-325 TYPE N CONNECTIONS - BEARING TYPE WITH THREADS INCLUDED IN SHEAR PLANE. CONNECTIONS ARE NON-SLIP CRITICAL AND BOLTS NEED TO BE TIGHTENED "SNUG TIGHT" ONLY EXCEPT AT FRAMES. AT MECHANICAL PLATFORM FRAMES PROVIDE A325SC SLIP CRITICAL BOLTS AT CONNECTIONS PER SECTION 2/S2.2. PROVIDE WASHERS AT OUTER PLYS WITH SLOTTED HOLES. INSTALL A-325 BOLTS IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS" (12/31/09). PROVIDE MINIMUM EMBEDMENT FOR ANCHOR BOLTS AS NOTED ON DRAWINGS. ALL WELDING TO CONFORM WITH AWS D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION". WELDS NOT SPECIFIED SHALL BE 1/4", CONTINUOUS FILLET MINIMUM. ALL WELDS BY CERTIFIED WELDERS. USE FRESH 70XX ELECTRODES FOR MANUAL SHIELDED METAL-ARC WELDING OR EQUAL ELECTRODES. WELDHEAD STUDS (WHS) ARE TO BE MACHINE WELDED WITH PROPER EQUIPMENT. SEE SPECIFICATIONS FOR ITEMS TO BE GALVANIZED.

PRE-ENGINEERED METAL BUILDING SYSTEM
PROJECT DEFINITION:
THE METAL BUILDING SUPPLIER (M.B.S.) IS TO PROVIDE AND INSTALL ALL MEMBERS TO CARRY AND DISTRIBUTE VERTICAL AND LATERAL LOADS TO THE FOUNDATION.
PREREQUISITE TO FABRICATION:
THE M.B.S. IS TO PROVIDE ENW A LAYOUT DRAWING SHOWING MAXIMUM DOWNWARD, UPLIFT AND LATERAL LOADS USING CODE REQUIRED LOAD COMBINATIONS AT ALL FOOTING LOCATIONS AT LEAST 3 WEEKS PRIOR TO THE CASTING OF ANY FOOTING, IN ORDER TO ADJUST FOOTING SIZES IF NECESSARY TO ACCOMMODATE THE ACTUAL BUILDING LOADS. SEE "SPRINKLER SUPPORT NOTES" FOR SPRINKLER REQUIREMENTS.
COORDINATION:
THE METAL BUILDING SUPPLIER IS TO PROVIDE ROOF FRAMING PLANS FOR BUILDING DEPARTMENT REVIEW THAT CLEARLY SHOW WHICH JOISTS SUPPORT 3" AND LARGER SPRINKLER LINES, MECHANICAL UNITS, DRAFT CURTAINS AND OTHER CONCENTRATED LOADS. THE LOCATIONS OF THESE LOADS ARE TO BE COORDINATED WITH THE GENERAL AND SPRINKLER CONTRACTORS PRIOR TO SUBMITTAL. NO CHANGES FROM ARCHITECTURAL OR STRUCTURAL DRAWINGS ARE TO OCCUR WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT. SEE THE ANCHOR BOLT NOTE ON DRAWING FOUNDATION PLAN.
FINAL INSPECTION:
THE M.B.S. ENGINEER IS TO DO A FINAL INSPECTION OF THEIR STRUCTURE. THE INSPECTION IS TO INCLUDE VERIFICATION THAT THE SPRINKLER LINES, MECHANICAL UNITS, DRAFT CURTAINS AND ANY OTHER CONCENTRATED LOADS HAVE BEEN PLACED PER THE CONTRACT DRAWINGS AND THAT THE HANGERS, PLATFORMS AND LATERAL BRACES HAVE BEEN INSTALLED TO PROPERLY RESOLVE ALL THE VERTICAL AND LATERAL FORCES WITHOUT OVERSTRESSING THE STRUCTURE.
VERIFICATION:
WHEN THE BUILDING HAS BEEN COMPLETED, INCLUDING ANY NECESSARY FIXES, THE M.B.S. WILL PROVIDE THE ARCHITECT A LETTER CERTIFYING THAT "THEIR STRUCTURE AS-BUILT COMPLIES WITH THEIR DRAWINGS, THE CODE UNDER WHICH THE BUILDING WAS CONSTRUCTED AND ALL EXTRA REQUIREMENTS INDICATED ON THE CONTRACT DRAWINGS." THE M.B.S. TO ACCOUNT IN THEIR DESIGN FOR THE FOUNDATION SETTLEMENTS AND DIFFERENTIAL SETTLEMENTS INDICATED IN THE SOILS REPORTS.

MASONRY
HOLLOW CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT (50/50) GRADE "N" IN ACCORDANCE WITH ASTM C-90. MASONRY STRESSES USED IN DESIGN (F'M = 2000 PSI) WERE FOR INSPECTED CONSTRUCTION. MASONRY UNIT COMPRESSIVE STRENGTH TO BE 2000 PSI MINIMUM ON NET AREA. ALL MASONRY TO BE ERECTED IN ACCORDANCE WITH CODE INDICATED ABOVE. LAP REINFORCING STEEL PER SCHEDULE ON THE DRAWINGS. ALL MASONRY TO BE RUNNING BOND LAY-UP MAXIMUM ALLOWABLE CONSTRUCTION WALL ALIGNMENT TOLERANCES (BASED ON ACTUAL DIMENSIONS) ARE AS FOLLOWS: VERTICAL + 1/4" IN 10 FT, 3/8" IN 20 FT. & 1/2" MAXIMUM IN WALL HEIGHT. HORIZONTAL + 1/4" IN 10 FT., 3/8" IN 20 FT & + 1/2" MAXIMUM. WALLS EXCEEDING THESE TOLERANCES MUST BE REMOVED AND REPLACED (NO EXCEPTIONS). TESTING LABORATORY TO CHECK CONSTRUCTION DAILY TO THESE TOLERANCES. NOTE: MASONRY IS NOT TO BE CONSTRUCTED ABOVE ELEVATION 18'-8" AT MAIN BUILDING & ELEVATION 10'-0" AT TIRE CENTER UNTIL M.B.S. ROOF IS INSTALLED AND IS STRAIGHT AND TRUE AT INSIDE FACE OF MASONRY. THE MASON MUST VERIFY THE PLACEMENT OF THE VERTICAL WALL DOWELS PRIOR TO THE CASTING OF THE FOOTINGS.

MORTAR
1. MORTAR SHALL BE TYPE "S" PER ASTM C-270. MASONRY CEMENT AND MORTAR CEMENT ARE NOT TO BE USED ON THIS PROJECT.
2. SUBMIT A MORTAR MIX PER EITHER TABLE 1 OR TABLE 2 OF ASTM C-270. MIXES SUBMITTED PER TABLE 1 MUST INCLUDE THE VOLUME PROPORTIONS FOR VARIFICATION. MIXES SUBMITTED PER TABLE 2 MUST INCLUDE THE VOLUME PORTIONS ALONG WITH A MINIMUM OF 6 RECENT STRENGTH TESTS OF LAB MIXED MORTAR.
3. THE MORTAR SUPPLIER IS TO CERTIFY IN WRITING THAT THE PRE BLENDED MIX SUPPLIED TO THE SITE EXACTLY MEETS THE PROPORTIONS OF THE MIX ACCEPTED BY ENW FOR THIS PROJECT. THIS CERTIFICATION MUST ACCOMPANY EACH MORTAR DELIVERY TO THE SITE AND IS TO BE GIVEN TO THE TESTING LAB REPRESENTATIVE FOR THIS PROJECT.
4. MORTAR SHALL BE DELIVERED PREBLENDED TO THE SITE. SITE BLENDING IS ALLOWED ONLY WITH CONTINUOUS INSPECTION BY THE TESTING LAB. MEASURING BY THE SHOVELFUL IS NOT ALLOWED.
5. SHOULD THE ABOVE REQUIREMENTS NOT BE FOLLOWED IN THEIR ENTIRETY, THE TESTING LAB IS TO VERIFY THE VOLUME PROPORTIONS BY PETROGRAPHIC ANALYSIS AND/OR PRISM TESTING OR OTHER TESTING AT ENW'S DISCRETION. THE COST OF WHICH IS TO BE BORNE BY THE GENERAL CONTRACTOR.

GROUT
GROUT SHALL CONFORM TO THE VOLUME PROPORTION REQUIREMENTS OF ASTM C-476. TESTED GROUT STRENGTH SHALL BE 2,000 PSI MINIMUM AT 28 DAYS. SOLID GROUT ALL CMU BELOW FINISH FLOOR. GROUT SOLID ANY CAVITY CONTAINING REINFORCING STEEL IN LIFTS NOT TO EXCEED 4'-0" UNLESS HIGHLIFT CODE PROCEDURES ARE FOLLOWED AND MONITORED AND REPORTED BY THE TESTING LAB.

REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A615, GRADE 60 (FY=60,000 PSI). SPLICES SHALL BE PER SCHEDULE UNLESS OTHERWISE SHOWN. ALL CONNECTIONS AND BOLTS SHOWN EMBEDDED IN MASONRY ARE TO BE INSTALLED BY THE MASONS DURING THE CONSTRUCTION OF THE WALL OR PIER. PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING.

BOLTS
ALL MASONRY BOLTS & WHS ON THIS PROJECT TO BE GROUTED IN PLACE. ALL CONNECTIONS AND BOLTS SHOWN EMBEDDED IN MASONRY ARE TO BE INSTALLED BY THE MASONS DURING THE CONSTRUCTION OF THE WALL OR PIER.

CONCRETE AND MASONRY ANCHORS (BOLTS, THREADED RODS AND REBAR DOWELS)

DRILLED IN EXPANSION ANCHORS:	
CONCRETE	HILTI KWIK BOLT TZ2 ESR-4266
CMU	HILTI KWIK BOLT 3 PER ESR–1385
ADHESIVE ANCHORS:	
CONCRETE	HILTI HIT–RE 500 V3 PER ESR–3814 AND HILTI HIT–HY 200-R PER ESR-3187
CMU	HILTI HIT-HY 270 PER ESR-4143
UNREINFORCED MASONRY	HILTI HIT–HY 270 PER ESR–4144
CAST IN PLACE ANCHORS:	
CONCRETE	EMBED PER PLANS AND SECTIONS
CMU	EMBED PER PLANS AND SECTIONS
SCREW ANCHORS:	
CONCRETE	HILTI KWIK HUS-EZ (KH-EZ) AND HUS-EZ I (KH-EZ I) PER ESR-3027
CMU	HILTI KWIK HUS-EZ (KH-EZ) PER ESR-3056

ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF INSTALLATION PER ACI 318 – 14 SECTION 17.1.2 INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY CERTIFIED PERSONNEL IN CONFORMANCE TO ACI 318 – 14 SECTION 17.8.2.2.

FOLLOW INSTALLATION PROCEDURES OF ESR REPORT AND MANUFACTURER 'S INSTRUCTIONS. PROVIDE SPECIAL INSPECTION AS NOTED AND/OR REQUIRED BY ESR REPORT. SUBSTITUTIONS ARE NOT ALLOWED UNLESS WRITTEN APPROVAL BY ENW IS RECEIVED. SUBSTITUTIONS MUST BE SUBMITTED TO ENW FOR REVIEW PRIOR TO CONSTRUCTION. PROVIDE STAINLESS STEEL OR GALVANIZED ANCHORS FOR EXTERIOR APPLICATIONS AS REQUIRED. ANCHORS RATED FOR DRY INTERIOR CONDITIONS MAY NOT BE USED FOR EXTERIOR APPLICATIONS PER ESR REPORT.

PLATFORM FLOOR DECKING
FLOOR DECKING TO BE 1-1/2 VERCO TYPE B FORMLOK COMPOSITE DECK, ASTM A446. GRADE A. G-60.

PLATFORMS 22 GA. I=0.175 in4, S+=0.187 in3, S-=0.198 in3

CONNECT WITH #12 DECK TO FRAMING SCREENS AT 7 FASTENERS PER SHEET AT SUPPORTS WITH BUTTON PUNCHES AT 24"o.c., TYPICAL AT EDGES PARALLEL TO FLUTES CONNECT WITH #12 SCREWS AT 6"-0, TYPICAL, UNLESS NOTED OTHERWISE ON SECTIONS.

THE DIAPHRAGM LATERAL LOADS TO THE X-BRACE FRAMES. NOTE THE LOADING DOCK WALL IS NOT A SHEAR WALL AND IS PROVIDED WITH A SLIP JOINT PER PLANS.

LIGHT GAGE STEEL FRAMING AND DECKING (SEE DRAWINGS)

SPRINKLER SUPPORT NOTES
1. THE FOLLOWING CRITERIA IS A MINIMUM LEVEL REQUIRED. THE FIRE PROTECTION DESIGNER/DRAWINGS MAY SET FORTH MORE STRINGENT REQUIREMENTS AT THEIR DISCRETION. REFER TO MBS DRAWINGS FOR THE MAXIMUM LOAD THAT THE ROOF TRUSSES CAN SUPPORT WITH A PARTICULAR TYPE OF HANGER.
2. a. ALL SPRINKLER PIPE LARGER THAN 3" NOMINAL DIAMETER IS TO BE CONSIDERED A "MAIN" FOR THE PURPOSE OF THESE NOTES.
   b. THE BIDS FOR BOTH THE SPRINKLER & JOISTS ARE TO INCLUDE ALL HANGERS, BRACES, ETC., AND ACCOUNT FOR THE LOADS INDICATED. FIRE PROTECTION DESIGNER IS RESPONSIBLE FOR COORDINATING THEIR DESIGN WITH THE TYPE OF SUPPORTING MEMBERS TO BE USED FOR SUPPORT OF THEIR LINES (I.E. OWJ, TRUSS-PURLINS, GIRDERS, ETC.)
3. a. ALL MAINS RUNNING PERPENDICULAR TO THE JOISTS ARE TO BE VERTICALLY SUPPORTED NO FARTHER APART THAN AT EVERY OTHER JOIST (I.E. 10 FEET).
   b. EACH JOIST THAT IS CROSSED BY A MAIN IS TO BE DESIGNED FOR THE VERTICAL SUPPORT LOAD BASED ON SUPPORTS AT EVERY OTHER JOIST.
4. ALL MAINS RUNNING PARALLEL TO THE JOISTS MUST BE:
   a. PLACED MID-WAY BETWEEN TWO JOISTS & BE TRAPEZED SO EACH JOIST SUPPORTS HALF THE LOAD.
   b. SUPPORTED AT 10'-0" OC MAXIMUM.
5. USE THE FOLLOWINGS WEIGHTS FOR SPRINKLER VERTICAL SUPPORT DESIGN:

PIPE SIZE	WT. PER FOOT	VERTICAL JOIST LOAD EXAMPLE:	
8"	51#	GIVEN: 8" DIAMETER MAIN TRUSSES @ 5' oc	
6"	32#	FIND: JOIST DESIGN LOAD	
5"	24#	SOLN: 51#/FT X 10' =	510#
4"	17#	ADDN'L PER NFPA #13 =	250#
3-1/2"	14#		760#/HGR

   ALL HANGERS TO BE DESIGNED, SUPPLIED & INSTALLED BY THE SPRINKLER SUPPLIER.
6. SPRINKLER LATERAL SWAY BRACING, FOR SEISMIC DESIGN CATEGORY C, D, E, F (AT 90 DEGREES TO 2-1/2" NOM. DIA. & LARGER PIPE) TO BE:
   a. SPACED A MAXIMUM OF 40 FT. OR AS ALLOWED BY N.F.P.A. #13.
   b. BRACED FROM THE MAIN TO A ROOF STRUCTURAL MEMBER WITH CONNECTIONS DESIGNED & INSTALLED BY THE SPRINKLER SUPPLIER.
   c. DESIGNED FOR A LATERAL LOAD OF THE WEIGHT PER FOOT OF WATER FILLED PIPE TIMES THE SWAY BRACE SPACING, PLUS THE WEIGHT OF TRIBUTARY BRANCH LINE WATER FILLED PIPE.
   d. CROSS MAIN BRACING MUST BE ADEQUATELY FASTENED TO THE MAIN FRAME BEAMS.
7. THE SPRINKLER DESIGNER IS TO PROVIDE THE CONTRACTOR, ARCHITECT, ENW & THE ROOF SUPPLIER WITH LOCATIONS AND DETAILS OF HANGER AND SWAY BRACE ATTACHMENTS WITH THEIR DESIGN LOADS, SO THESE LOADS CAN BE DESIGNED INTO THE JOISTS, ETC.
8. THE SPRINKLER CONTRACTOR/DESIGNER SHALL SUBMIT:
   a. PLAN WITH LOCATIONS AND LOADS OF ALL HANGERS.
   b. DETAILS AND CAPACITIES OF ALL HANGERS USED.
9. THE MBS ROOF DESIGNER TO PROVIDE & INSTALL ADDITIONAL BRACES TO TAKE THE SWAY BRACE LOAD FROM THE SWAY BRACE INTO THE ROOF LATERAL RESISTING SYSTEM.

SUSPENDED CEILINGS
CEILING SYSTEMS AND THEIR CONNECTIONS TO THE BUILDING STRUCTURE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE ASTM E580 RECOMMENDATIONS AND THE ADDITIONAL REQUIREMENTS OF ASCE 7-16 SECTION 13.5.6. PROVIDE SPECIAL INSPECTION AS REQUIRED BY CODE.

SPECIAL INSPECTIONS
INSPECTIONS ARE TO BE PER THE CODE INDICATED ABOVE AND ARE TO BE BY AN INDEPENDENT TESTING LAB APPROVED PRIOR TO STARTING CONSTRUCTION BY THE BUILDING DEPT. AND THE ARCHITECT. INSPECT ALL SHOP WELDING UNLESS THE SHOP IS CERTIFIED BY THE LOCAL BUILDING DEPARTMENT.

FOUNDATION: SOILS ENGINEER TO INSPECT FOOTING EXCAVATIONS AND PROVIDE COMPACTION TESTS AS NOTED ABOVE.

CONCRETE: TAKE CONCRETE CYLINDERS AS REQUIRED, VERIFY SLUMP AND STRENGTH. SPECIAL INSPECTION IS REQUIRED DURING THE TAKING OF TEST SPECIMENS AND PLACING OF ALL REINFORCED CONCRETE.

REINFORCING: VERIFY ALL REINFORCING IS PLACED IN ACCORDANCE WITH THESE DRAWINGS. CHECK FOR REQUIRED COVER, SIZE, SPACING, LAP AND GRADE. SPECIAL INSPECTION IS REQUIRED DURING THE PLACING OF REINFORCING STEEL.

CONC. EXPANSION & MASONRY ANCHORS & DRILLED-IN DOWELS: COPY OF ICC REPORT FOR ANCHORS OR ADHESIVE SYSTEM USED MUST BE AVAILABLE AT JOB SITE. VERIFY ANCHORS OR ADHESIVE SYSTEM INSTALLATION IN ACCORDANCE WITH REPORT. VERIFY CERTIFICATION OF INSTALLER FOR ADHESIVE ANCHORS.

WELDING: SPECIAL INSPECTION IS REQUIRED DURING ALL STRUCTURAL WELDING. INSPECT ALL FIELD WELDING - VERIFY CERTIFICATION OF WELDERS. CONTRACTOR SHALL PAY FOR REWELDING AND REINSPECTION OF ALL WELDS NOT MEETING SPECS. INSPECTOR SHALL NOTIFY STRUCTURAL ENGINEER OF WELDS NOT MEETING SPECS.

PRE-ENGINEERED BUILDING SYSTEM: ENGINEER FOR M.B.S. OR HIS REPRESENTATIVE TO INSPECT FINISHED BUILDING AND PROVIDE A LETTER TO THE ARCHITECT AND BUILDING DEPT. CERTIFYING THAT THE BUILDING AS CONSTRUCTED MEETS BOTH THE CONTRACT DRAWINGS AND BUILDING CODE STRUCTURAL REQUIREMENTS. LETTER TO BE STAMPED & SIGNED BY THE ENGINEER THAT STAMPED M.B.S. DRAWINGS.

MASONRY: VERIFY THAT UNITS HAVE MINIMUM CELL SIZE PER DRAWINGS. VERIFY REINFORCING LAP AND PLACEMENT IS PER DRAWINGS. MASONRY CONSTRUCTION SHALL HAVE SPECIAL INSPECTION PER CODE. DAILY VERIFY MASONRY TOLERANCES PER MASONRY NOTE THIS SHEET. SPECIAL INSPECTION IS REQUIRED BASED ON THE "UNIT STRENGTH METHOD" PER THE THREE STEPS NOTED BELOW, SAMPLING AND PLACING OF ALL MASONRY UNITS, PLACEMENT OF REINFORCEMENT, INSPECTION OF GROUT SPACE, IMMEDIATELY PRIOR TO CLOSING OF CLEANOUTS AND DURING ALL GROUTING OPERATIONS. THE SPECIAL INSPECTOR IS TO VERIFY THAT:
1. UNITS CONFORM TO ASTM C90 AND ARE SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C140.
2. GROUT CONFORMS TO ASTM C476 AND IS SAMPLED FOR EACH 5000 SF OF WALL AND TESTED FOR STRENGTH.
3. MORTAR CONFORMS TO THE VOLUME PROPORTIONS FROM THE MASONRY SECTION. THIS MAY BE ACCOMPLISHED BY CHECKING THE CERTIFICATION FROM THE MORTAR SUPPLIER GIVEN WITH EACH BATCH OF MORTAR. (PROVIDED THAT ALL THE ABOVE ARE SATISFACTORY, TESTS FOR STRENGTH ARE NOT REQUIRED).
4. SITE BLENDING OF DRY INGREDIENTS REQUIRES CONTINUOUS INSPECTION BY TESTING LAB. MIXING BY SHOVELFUL IS NOT ALLOWED IN ANY CASE.

FAILURE TO FOLLOW THESE FOUR STEPS WILL MEAN THAT PRISM TESTS WILL BE REQUIRED. THE CONTRACTOR MAY ELECT TO TAKE PRISM TESTS IN LIEU OF THE "UNIT STRENGTH PROCEDURE". TESTING LAB TO NOTIFY ENGINEERS NORTHWEST AND THE ARCHITECT BY PHONE AND FAX OF ALL NONCOMPLIANCES REGARDING MASONRY IMMEDIATELY. TESTING LAB TO SEND REPORTS TO ENGINEERS NORTHWEST AND THE ARCHITECT WITHIN 5 DAYS OF TEST.

STEEL: IN ACCORDANCE WITH TABLE ON S0.3 AND REFERENCED STANDARDS.
CONTINUOUS INSPECTION:
SLIP-CRITICAL (SC) HIGH STRENGTH BOLTED CONNECTIONS.
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. NON-DESTRUCTIVE TESTING IS REQUIRED FOR ALL COMPLETE PENETRATION WELDS - SHOP AND FIELD.
MULTIPASS FILLET WELDS.
SINGLE-PASS FILLET WELDS GREATER THAN 5/16-INCH.
WELDING OF REINFORCING IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.
PERIODIC INSPECTION:
VERIFY HIGH-STRENGTH BOLT IDENTIFICATION MARKINGS CONFORM TO SPECIFIED ASTM STANDARDS. REVIEW OF MANUFACTURER'S CERTIFICATE OF COMPLIANCE.
INSTALLATION OF BEARING-TYPE BOLTED CONNECTIONS.
SINGLE-PASS FILLET WELDS 5/16-INCH OR LESS.
FLOOR AND ROOF DECK WELDS.
COLD-FORMED STEEL FRAME WELDING.
WELDING OF STAIRS AND RAILINGS.
WELDING OF STUDS.
VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A-706.
WELDING OF REINFORCING STEEL OTHER THAN THAT REQUIRING CONTINUOUS INSPECTION.
STEEL JOINTS AND CONNECTIONS FOR COMPLIANCE WITH PLANS.

SHOP DRAWINGS
SUBMIT 4 SETS OF PRINTS (U.N.O. BY ARCHITECT) OR ELECTRONIC PDF FILES, OF SHOP DRAWINGS TO ENGINEER FOR REVIEW AFTER CONTRACTOR HAS REVIEWED & STAMPED FOR COMPLIANCE AND PRIOR TO FABRICATION FOR: STRUCTURAL STEEL, MISCELLANEOUS STEEL AND REINFORCING STEEL. WHEN SHOP DRAWING SUPPLIER MAKES A CHANGE FROM THESE DRAWINGS IT IS TO BE CLEARLY FLAGGED AND CLOUDED. CHANGES NOT FLAGGED AND CLOUDED ARE TO BE CONSIDERED AS UNACCEPTABLE EVEN WITHOUT BEING COMMENTED ON IN THE SHOP DRAWING REVIEW PROCESS. THE SUPPLIER OF THE ITEM CONTAINING THE CHANGE SHALL BE RESPONSIBLE FOR CHANGING THE ITEM BACK TO AGREE WITH THESE DRAWINGS AT NO COST TO THE OWNER AT E.N.W.'S OPTION. "SHOP DRAWINGS ARE AN ERECTION AID, AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENT OVER THE SHOP DRAWINGS... ".

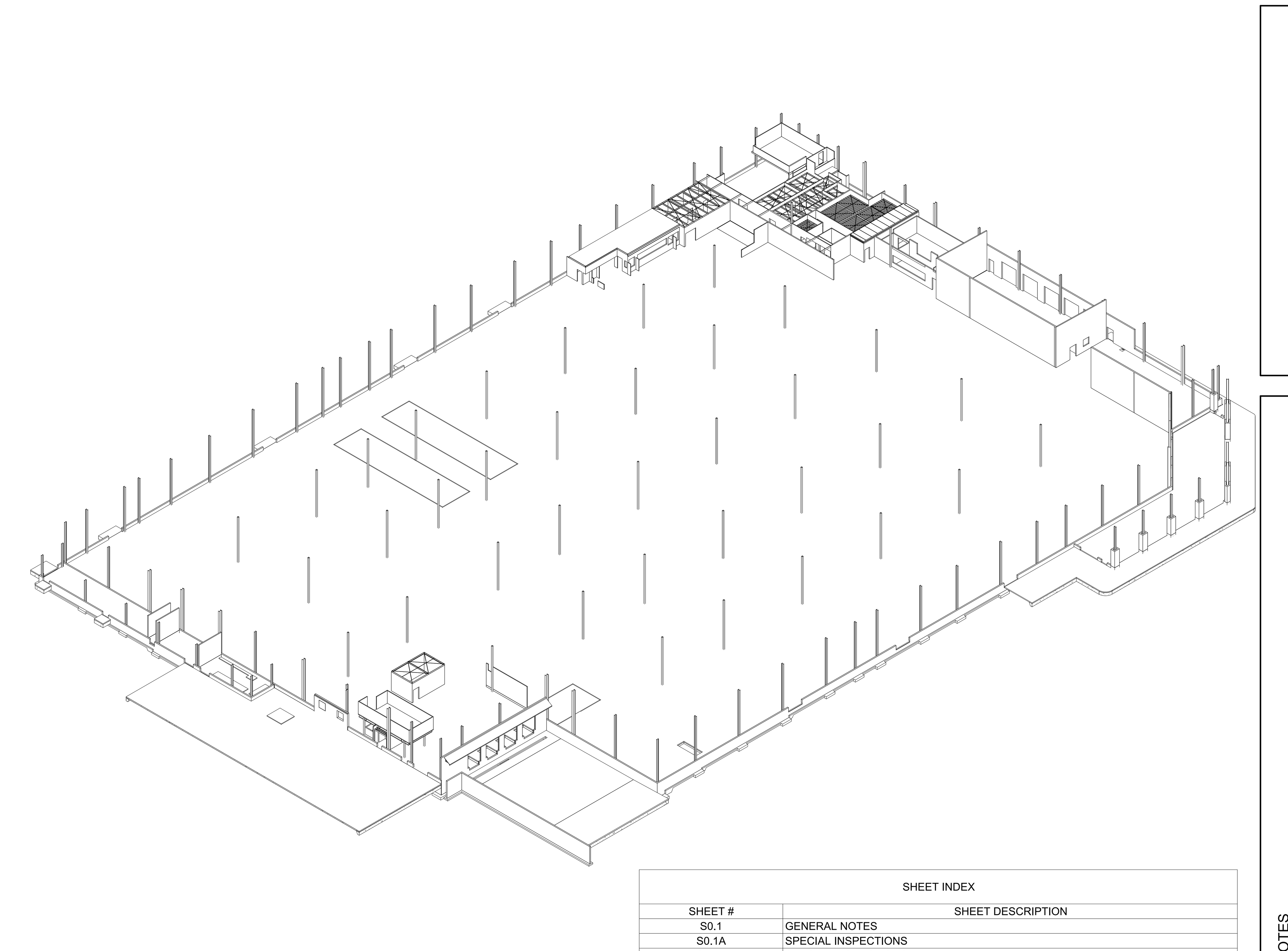
SPECIAL CONDITIONS
CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.

NOTE TO MECHANICAL AND ELECTRICAL TRADES
CONTRACTOR SHALL SUBMIT PLANS SHOWING LOCATION, LOAD AND ANCHORAGE OF ALL HANGERS SUPPORTING ANY MECHANICAL, ELECTRICAL, PLUMBING OR SPRINKLER LOADS IN EXCESS OF 50 POUNDS. ANY ROOF MOUNTED EQUIPMENT SHALL BE INCLUDED IN THESE PLANS AND SHALL SHOW LOADS AND LOCATIONS. THESE SHALL BE SUBMITTED TO ENGINEERS NORTHWEST FOR REVIEW PRIOR TO INSTALLATION OF ANY OF THIS EQUIPMENT. SEE DETAILS ON DRAWING S5.1 FOR SUPPORTING LOADS FROM ROOF JOISTS. ALL DETAILS OF CONNECTIONS TO THE STRUCTURE FOR EQUIPMENT SHALL BE BY THE SUPPLIER OF THAT EQUIPMENT. THE BUILDING DEPARTMENT REQUIRES A SUBMITTAL FOR PLAN CHECK REGARDING THE DESIGN OF THESE DETAILS, IT IS THE RESPONSIBILITY OF THE EQUIPMENT SUPPLIER TO PROVIDE THIS SUBMITTAL.

GENERAL BUILDING DESCRIPTION
1. THE STRUCTURE IS A BUILDING FRAME SYSTEM WITH NON-BEARING, NON-SHEAR, 2'-0" HIGH CMU WALLS. THE ROOF DECKING IS NOT PART OF THE LATERAL SYSTEM. ROD BRACING, STRUT JOISTS AND GIRDERS FORM A HORIZONTAL TRUSS TO DISTRIBUTE LATERAL LOADS TO THE WALLS.
2. THE CMU WALLS CANTILEVER FROM THE SLAB ON GRADE UP TO ELEVATION 2'-0", AND ARE NOT ATTACHED TO THE METAL BUILDING STRUCTURE.
3. THE ONLY WALL THAT DEPENDS ON THE STEEL FRAME FOR LATERAL SUPPORT IS THE 15'-4" HIGH C.I.P. CONCRETE LOADING DOCK WALL SHOWN IN ELEVATION 1 ON DRAWING S3.3. THE BUILDING FRAME IS TO BE DESIGNED FOR THE LATERAL ANCHORAGE LOADS SHOWN ON SCHEDULE ANCHORAGE ON S3.2, IMPOSED BY THIS WALL.
4. THE ROOF DIAPHRAGM CHORD BEAMS SPAN FROM ROOF STRUT JOIST TO ROOF STRUT JOIST. THE STRUT JOISTS EXTEND ACROSS THE ROOF DIAPHRAGM TO PROVIDE THE CODE-REQUIRED CROSSTIE. THE STRUT JOISTS ARE SHOWN ON THE ROOF PLAN (DRAWING S1.2) AS S.J. 'S AND USUALLY A COLUMN OCCURS AT EACH END OF A S.J. RUN. THE STRUT JOIST BOTTOM CHORD CONNECTS TO THE CHORD BEAM THRU A M.B.S. CONNECTION.
5. DIAGONAL ROD BRACING OCCURS BETWEEN THE STRUT JOISTS TO TAKE THE DIAPHRAGM LATERAL LOADS TO THE X-BRACE FRAMES. NOTE THE LOADING DOCK WALL IS NOT A SHEAR WALL AND IS PROVIDED WITH A SLIP JOINT PER PLANS.

ABBREVIATIONS

ARCH.	ARCHITECT	N.F.	NEAR FACE
BAL.	BALANCE	N.T.S.	NOT TO SCALE
B. OR BOT.	BOTTOM	oc	ON CENTER
BTWN.	BETWEEN	O.F.	OUTSIDE FACE
BLDG.	BUILDING	O.S.	OUTSIDE
BRG.	BEARING	O.T.O.	OUT TO OUT
B.U.B.	BUILT UP BEAM	M.O.	MASONRY OPENING
C.I.P.	CAST IN PLACE	PL	PLATE
C.J.	CONSTRUCTION JOINT	REINF.	REINFORCING
CL	CENTERLINE	REM.	REMAINDER
CLR.	CLEAR	R.O.	ROUGH OPENING
CMU	CONCRETE MASONRY UNIT	SECT.	SECTIONS
COL.	COLUMN	SIM.	SIMILAR
CONC.	CONCRETE	SYMM.	SIMMECTRICAL/SYMMETRY
C.S.J.	CLOSURE STRIP JOINT	S.J	SHRINKAGE JOINT
DIA. OR DIAM.	DIAMETER	STL.	STEEL
EA.	EACH	SW	SHEARWALL
E.E.	EACH END	SYMM.	SYMMETRICAL
E.F.	EACH FACE	T.	TOP
E.J.	EXPANSION JOINT	T.O.B.	TOP OF BEAM
EL. OR ELEV.	ELEVATION	T.O.F.	TOP OF FOOTING
E.N.W. OR ENW	ENGINEERS NORTHWEST	T.O.S.	TOP OF STEEL
EQ. EQUAL			TOP OF SLAB
E.S.	EACH SIDE	T.O.W.	TOP OF WALL
E.W.	EACH WAY	TYP.	TYPICAL AT ALL SIMILAR PLACES
F.O.C.	FACE OF CONCRETE	U.N.O.	UNLESS NOTED OTHERWISE
F.O.S.	FACE OF STUD	V.E.F.	VERTICAL EACH FACE
F.O.W.	FACE OF WALL	VERT.	VERTICAL
FTG.	FOOTING	V.F.F.	VERTICAL FAR FACE
GA.	GAGE	VFY	VERIFY
GALV.	HOT DIP GALVANIZED	V.I.F.	VERTICAL INSIDE FACE
G.W.B.	GYPSUM WALL BOARD	V.N.F.	VERTICAL NEAR FACE
H. OR HORIZ.	HORIZONTAL	V.O.F.	VERTICAL OUTSIDE FACE
I.B.C.	INTERNATIONAL BUILDING CODE	W.A.B.O.	WASHINGTON ASSOC. OF
I.C.C.	INTERNATIONAL CODE COUNCIL		BUILDING OFFICIALS
I.F	INSIDE FACE	w/	WITH
INC.	INCLUDING	w/o	WITH OUT
K	KIP (1000 POUNDS)	W.H.S.	WELD HEAD STUD
L.W.	LONG WAY	@	AT
M.B.S.	METAL BLDG SUPPLIER		



SHEET INDEX

SHEET #	SHEET DESCRIPTION
S0.1	GENERAL NOTES
S0.1A	SPECIAL INSPECTIONS
S0.1B	SPECIAL INSPECTIONS
S0.2	SLAB DETAILS
S0.3	DOOR ELEVATIONS & SECTIONS
S0.4	LIGHT GAGE FRAMING SECTIONS
S0.5	LIGHT GAGE FRAMING SECTIONS
S1.0	FOUNDATION PLAN
S1.1	SLAB JOINT PLACEMENT PLAN
S1.2	ROOF FRAMING PLAN
S1.3	ENLARGED CANOPY FOUNDATION PLAN
S1.4	CANOPY SECTIONS
S2.1	OFFICE, TUBE PLATFORM, AND DEMO ROOM FRAMING PLANS
S2.2	PLATFORM PLANS
S2.3	PLATFORM SECTIONS
S2.4	T.C. RESTROOM CEILING FRAMING PLAN AND SECTIONS
S2.5	FOOD SERVICE FRAMING & MEAT PREP WALL PLANS, ELEVATIONS AND SECTIONS
S2.6	RECEIVING RESTROOM AND MECHANICAL ROOM FRAMING PLAN AND DETAILS
S3.1	BUILDING ELEVATIONS
S3.2	PARTIAL WALL ELEVATIONS AND DETAILS
S3.3	PARTIAL WALL ELEVATIONS AND DETAILS
S4.0	PLINTH SECTIONS, PLINTH SCHEDULE AND FOOTING SCHEDULE
S4.1	FOUNDATION SECTIONS
S4.2	FOUNDATION SECTIONS
S5.1	ROOF SECTIONS
S5.2	ROOF SECTIONS

Grand total: 26

Joe Frogge

Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2026.03.26 16:04:19-05'00'

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:50

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI ★ JOSE L. PARADA ★ NUMBER PE-2018042032 ★ PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

COSTCO WHOLESALE
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

SHEET CONTENTS: GENERAL NOTES

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S0.1

C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:39 PM

2018 IBC COLD-FORMED (STEEL LIGHT GAGE CONSTRUCTION)

TYPE	CONTINUOUS	PERIODIC	REFRENCED STANDARD
1. 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
b. MANUFACTURER'S CERTIFIED TEST REPORTS.	-----	X	
2. INSPECTION OF WELDING:			
a. COLD-FORMED STEEL DECK:			
1.) FLOOR AND ROOF DECK WELDS.	-----	X	AWS D1.3
b. SCREW SIZE & SPACING, BOLTING ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FOR RESISTING SYSTEMS INCLUDING DIAPHRAM, SHEARWALLS, BRACES, COLLECTORS (DRAG STRUTS) AND HOLD DOWNS.		X	IBC 1705.12.3

2018 IBC TABLE 1705.3

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTIONS	PERIODIC SPECIAL INSPECTIONS	REFRENCED STANDARD[a]	IBC REFRENCE
1. INSPECT REINFORCEMENT STEEL, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-----	X	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" AND c. INSPECT ALL OTHER WELDS.	----- ----- X	X X -----	AWS D1.4 ACI 318: 26.6.4	-----
3. INSPECT ANCHORS CAST IN CONCRETE.	-----	X	ACI 318: 17.8.2	-----
4. INSPECT ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS[b] a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X -----	----- X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-----
5. VERIFY USE OF REQUIRED DESIGN MIX.	-----	X	ACI 318: CH. 19 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-----	ASTM C172, ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-----	ACI 318: 26.5	1908.6 1908.7 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-----	X	ACI 318: 26.5.3 - 26.5.5	1908.9
9. INSPECTION OF PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	X X	----- -----	ACI 318: 26.10	-----
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-----	X	ACI 318: 26.9	-----
11. VERIFY OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-----	X	ACI 318: 26.11.2	-----
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-----	X	ACI 318: 26.11.1.2(b)	-----

a. WHERE APPLICABLE, SEE ALSO SECTIONS 1705.12 SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTIONS REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OT THE WORK.

2018 IBC TABLE 1705.6

REQUIRED SPECIAL INSPECTION AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-----	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-----	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-----	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-----
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-----	X

2018 IBC WOOD CONSTRUCTION

SPECIAL INSPECTION OF WOOD CONSTRUCTION

VERIFICATION & INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA
	CONTINUOUS DURING TASK	PERIODIC DURING TASK	IBC SECTION
1. PREFABRICATED WOOD STRUCTURAL ELEMENTS SHALL BE IN ACCORDANCE WITH SECTION 1704.2.5	-----	X	1704.2.5 1705.5
2. HIGH LOAD DIAPHRAGMS DESIGNED IN ACCORDANCE WITH SECTION 2306.2 TABLE 2306.2(2), THE INSPECTOR SHALL VERIFY:			
a. WOOD STRUCTURAL SHEATHING TO VERIFY THE GRADE AND THICKNESS SHOWN ON APPROVED BUILDING DRAWINGS.	-----	X	1705.5.1
b. THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL OR STAPLE LENGTH, NUMBER OF FASTENER LINES, AND SPACING OF FASTENERS IN EACH LINE AND AT EDGE MARGING AGREES WITH APPROVED BUILDING DRAWINGS	-----	X	1705.5.1

2018 IBC TABLE 1705.7

SPECIAL INSPECTIONS AND TEST OF DRIVEN DEEP FOUNDATION ELEMENTS

TYPE	CONTINUOUS SPECIAL INSPECTIONS	PERIODIC SPECIAL INSPECTIONS
1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	-----
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	-----
3. INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-----
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	-----
5. FOR STEEL ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2.	-----	-----
6. FOR CONCRETE ELEMENTS AND CONCRETE-FILLED ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	-----	-----
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	-----	-----

2018 IBC TABLE 1705.8

REQUIRED SPECIAL INSPECTION AND TEST OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-----
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	-----
3. FOR CONCRETE ELEMENTS, PERFORM TEST AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	-----	-----

2018 IBC LEVEL 2 REQUIRED VERIFICATION & INSPECTION OF MASONRY CONSTRUCTION

MINIMUM TESTS

VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF CONSOLIDATING GROUT

VERIFICATION OF f'_m AND f'_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE

MINIMUM SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY [a]			REFERENCE FOR CRITERIA	
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR.	NR	P	P		ART. 2.1, 2.6A, & 2.6C
b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	NR	P	P		ART. 2.4B, 2.4H
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P		ART. 3.4, 3.6A
d. PRESTRESSING TECHNIQUE	NR	P	P		ART. 3.6B
e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	NR	C[b]/P[c]	C		ART. 2.1 C.1
f. SAMPLE PANEL CONSTRUCTION	NR	P	C		ART. 1.6D
2. PRIOR TO GROUTING VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a. GROUT SPACE	NR	P	C		ART. 3.2D, 3.2F
b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	NR	P	C	SEC. 6.1, 6.3.1, 6.3.6, 6.3.7	ART. 3.2E & 3.4
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	NR	P	P		ART. 2.6B & 2.4G.1.b
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	NR	P	P		ART. 1.5
b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	NR	P	P		ART. 3.3B
c. SIZE AND LOCATION OF STRUCTURAL MEMBERS	NR	P	P		ART. 3.3F
d. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	NR	P	C	SEC. 1.2.1.(e), 6.2.1, & 6.3.1	
e. WELDING OF REINFORCEMENT	NR	C	C	SEC. 6.1.6.1.2	
f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))	NR	P	P		ART.1.8C, 1.8D
g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	NR	C	C		ART. 3.6B
h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.	NR	C	C		ART. 3.5, 3.6C
i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	NR	C[b]/P[c]	C		ART. 3.3 B.9 & 3.3 F.1.b
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	NR	P	C		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

NOTES:
(a) Frequency refers to the frequency of inspection, which may be continuous during the listed task or periodic during the listed task, as defined in the table.
NR=Not Required, P=Periodic, C=Continuous
(b) Required for the first 5000 square feet (465 square meters) of AAC masonry.
(c) Required after the first 5000 square feet (465 square meters) of AAC masonry.

2018 IBC TABLE 1705.2.3

REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS

TYPE	CONTINUOUS SPECIAL INSPECTIONS	PERIODIC SPECIAL INSPECTIONS	REFERENCED STANDARD
1. INSTALLATION OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS			
a. END CONNECTIONS - WELDED OR BOLTED	-----	X	SJI SPECIFICATION LISTED IN SECTION 2207.1
b. BRIDGING - HORIZONTAL OR DIAGONAL			
1. STANDARD BRIDGING	-----	X	SJI SPECIFICATION LISTED IN SECTION 2207.1
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	-----	X	

NOTES:
1. WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

DEFERRED SUBMITTALS STRUCTURAL COMPONENTS

ITEM	REVIEWED BY	
	AOR	EOR
STEEL STAIRS	X	X

NOTES:
1. ALL CALCULATIONS PROVIDED SHALL MUST BEAR THE SEAL & SIGNATURE OF A REGISTERED ENGINEER LICENSED IN THE PROJECT STATE.
2. DEFERRED SUBMITTAL ITEMS SHALL NOT BE OTHERWISE CONSTRUCTED IN PLACE WITHOUT HAVING THE PLANS OR SHOP DRAWINGS REVIEWED AND APPROVED BY THE EOR AND THE BUILDING OFFICIAL.
3. AOR DENOTES ARCHITECT OF RECORD.
4. EOR DENOTES ENGINEER OF RECORD.

STRUCTURAL OBSERVATION PROGRAM

STRUCTURAL OBSERVATIONS SHALL BE PROVIDED FOR THOSE STRUCTURES WHERE ONE OR MORE OF THE FOLLOWING CONDITIONS EXIST:
1. THE STRUCTURE IS CLASSIFIED AS RISK CATEGORY III OR IV.
2. THE STRUCTURE IS A HIGH-RISE BUILDING.
3. THE STRUCTURE IS ASSIGNED TO SEISMIC DESIGN CATEGORY 'E' OR 'F', AND IS GREATER THAN TWO STORIES ABOVE GRADE PLANE.
4. SUCH OBSERVATION IS REQUIRED BY THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE STRUCTURAL DESIGN.
5. SUCH OBSERVATION IS SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.

NOTES:
1. THE STRUCTURAL OBSERVER WILL SUBMIT A FIELD REPORT TO THE BUILDING DEPARTMENT AFTER EACH VISIT ON THE FREQUENCY PRE-ESTABLISHED.
2. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE REQUIREMENT FOR SPECIAL INSPECTION, OR OTHER INSPECTIONS REQUIRED BY THE BUILDING CODE.
3. STRUCTURAL OBSERVATION MUST BE PROVIDED BY THE ENGINEER OF RECORD RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR ANOTHER LICENSED ENGINEER DESIGNATED BY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN.
ALL OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:51

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010020660
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc. P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

SHEET CONTENTS: SPECIAL INSPECTIONS

COSTCO WHOLESALE
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S0.1A

12/22/2025 6:15:40 PM C:\Users\lusm\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt

2018 IBC, AISC 360-16 Table N5.4-1

Inspection Tasks Prior to Welding

Inspection Tasks Prior to Welding	QC	QA
Welder qualification records and continuity records	P	O
WPS available	P	P
Manufacturer certifications for welding consumables available	P	P
Material identification (type/gender)	O	O
Welder identification system[a]	O	O
Fit-up of groove welds (including joint geometry)		
· Joint preparations		
· Dimensions (alignment, root opening, root face, bevel)	O	O
· Cleanliness (condition of steel surfaces)		
· Tacking (tack weld quality and location)		
· Backing type and fit (if applicable)		
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)	P	O
· Tacking (tack weld quality and location)		
Configuration and finish of access holes	O	O
Fit-up of fillet welds		
· Dimensions (alignment, gaps at root)		
· Cleanliness (condition of steel surface)	O	O
· Tacking (tack weld quality and location)		
Check welding equipment	O	-
[a] The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.		

2018 IBC, AISC 360-16 Table N5.4-2

Inspection Tasks During Welding

Inspection Tasks During Welding	QC	QA
Control and handling of welded consumables		
· Packaging	O	O
· Exposure control		
No welding over cracked tack welds	O	O
Environmental conditions		
· Wind speed within limits	O	O
· Precipitation and temperature		
WPS followed		
· Settings on welding equipment		
· Travel speed	O	O
· Selected welding materials		
· Shielding gas type/flow rate		
· Preheat applied		
· Interpass temperature maintained (min./max.)		
· Proper position (F, V, H, OH)		
Welding techniques		
· Interpass and final cleaning		
· Each pass within profile limitations	O	O
· Each pass meets quality requirements		
Placement and installation of steel headed stud anchors	P	P

2018 IBC, AISC 360-16 Table N5.4-3

Inspection Tasks After Welding

Inspection Tasks After Welding	QC	QA
Welds cleaned	O	O
Size, length and location of welds	P	P
Welds meet visual acceptance criteria		
· Crack prohibition		
· Weld/base-metal fusion		
· Crater cross section	P	P
· Weld profiles		
· Weld size		
· Undercut		
· Porosity		
Arc strikes	P	P
k-area[a]	P	P
Weld access holes in rolled heavy shapes and built-up heavy shapes[b]	P	P
Backing removed and weld tabs removed (if required)	P	P
Repair activities	P	P
Document acceptance or rejection of welded joint or member	P	P
No prohibited welds have been added without the approval of the EOR	O	O
[a] When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld.		
[b] After rolled heavy shapes (see AISC 316-16 Section A3.1c) and built-up heavy shapes (see AISC 316-16 Section A3.1d) are welded, visually inspect the weld access hole for cracks.		

2018 IBC, AISC 360-16 Table N5.6-1

Inspection Tasks Prior to Bolting

Inspection Tasks Prior to Bolting	QC	QA
Manufacturer's certifications available for fastener materials	O	P
Fasteners marked in accordance with ASTM requirements	O	O
Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O
Correct bolting procedure selected for joint detail	O	O
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	O	O
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	P	O
Protected storage provided for bolts, nuts, washers and other fastener components	O	O

2018 IBC, AISC 360-16 Table N5.6-2

Inspection Tasks During Bolting

Inspection Tasks During Bolting	QC	QA
Fastener assemblies placed in all holes and washers and nuts are positioned as required	O	O
Joint brought to the snug-tight condition prior to the pretensioning operation	O	O
Fastener component not turned by the wrench prevented from rotating	O	O
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	O	O

2018 IBC, AISC 360-16 Table N5.6-3

Inspection Tasks After Bolting

Inspection Tasks After Bolting	QC	QA
Document acceptance or rejection of bolted connections	P	P

GLOSSARY OF TERMS

PERFORM (P):	Perform these tasks for each weld, fastener or bolted connection, and required verification.
OBSERVE (O):	Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.
DOCUMENT (DOC., OR D):	Document in a report that the work has been performed as required. This is in addition to all other required reports.
Quality assurance (QA). Monitoring and inspection tasks to ensure that the material provided and work performed by the fabricator and erector meet the requirements of the approved construction documents and referenced standards. Quality assurance includes those tasks designated "special inspection" by the applicable building code.	
Quality assurance inspector (QAI): Individual designated to provide quality assurance inspection for the work being performed.	
Quality assurance plan (QAP). Program in which the agency or firm responsible for quality assurance maintains detailed monitoring and inspection procedures to ensure conformance with the approved construction documents and referenced standards.	
Quality control (QC). Controls and inspections implemented by the fabricator or erector, as applicable, to ensure that the material provided and work performed meet the requirements of the approved construction documents and referenced standards.	
Quality control inspector (QCI). Individual designated to perform quality control inspection tasks for the work being performed.	
Quality control program (QCP). Program in which the fabricator or erector, as applicable, maintains detailed fabrication or erection and inspection procedures to ensure conformance with the approved design drawings, specifications, and referenced standards.	

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:51

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010020644
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

SHEET CONTENTS: SPECIAL INSPECTIONS

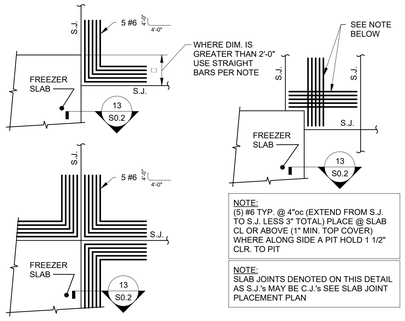
COSTCO WHOLESALE

COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

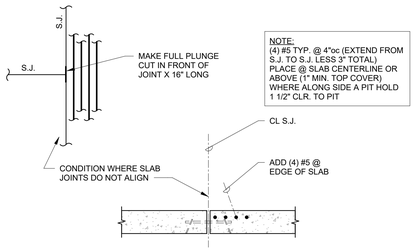
JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S0.1B

12/22/2025 6:15:41 PM C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt

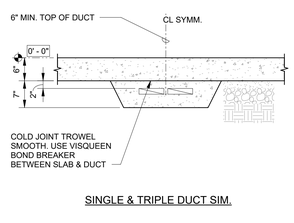
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:51



1 FREEZER SLAB CORNER REINFORCEMENT
3/4" = 1'-0"

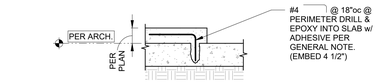


2 PERPENDICULAR JOINT REINFORCEMENT
3/4" = 1'-0"

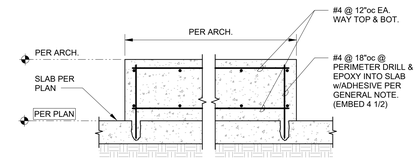


SINGLE & TRIPLE DUCT SIM.

3 WALKERDUCT SECTION
3/4" = 1'-0"

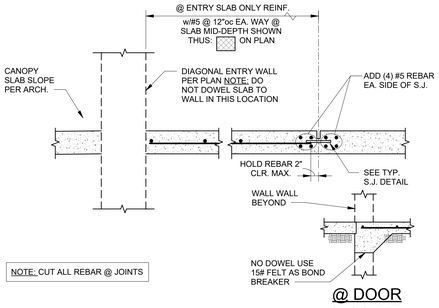


4" HOUSEKEEPING PAD
(LOCATE PER ARCH.)



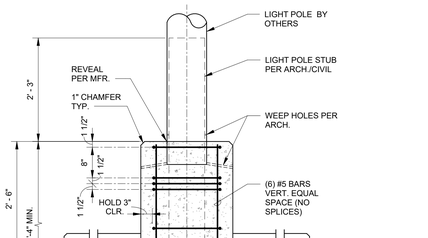
PUMP PAD
(LOCATE PER ARCH.)

4 SECTION
3/4" = 1'-0"



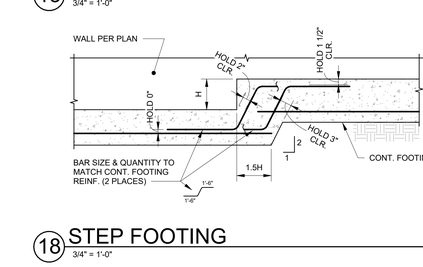
TYP. DTL. @ MAIN ENTRY/EXIT

5 SECTION
3/4" = 1'-0"

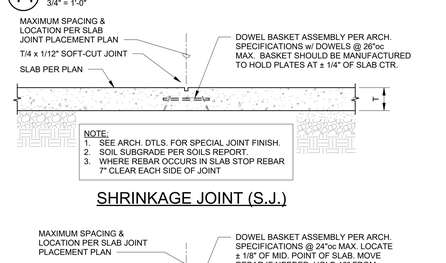


6 SLAB REPAIR/REPLACEMENT JOINT SECTION
3/4" = 1'-0"

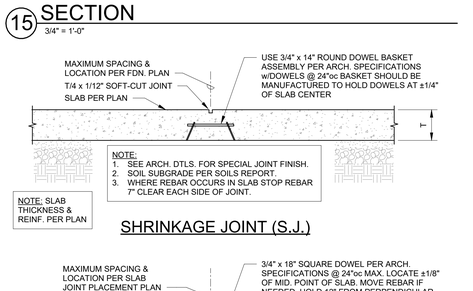
7 INTERIOR TRENCH DRAIN SECTION
3/4" = 1'-0"
NOTE: (LOCATE PER ARCH.)



8 WALKERDUCT SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



PLAN
N.T.S.

TRANSFORMER PAD

10 SECTION
3/4" = 1'-0"

(@ FREEZER DOORS ONLY)

FREEZER SLAB DETAIL

13 SECTION
3/4" = 1'-0"

14 TRUCK APRON TRENCH DRAIN
3/4" = 1'-0"

PAN WASHER PIT DETAIL
NOTE: LOCATE PIT PER ARCH. DWGS.

18 STEP FOOTING
3/4" = 1'-0"

SHRINKAGE JOINT (S.J.)

SHRINKAGE JOINT (S.J.)

19 FULL DEPTH SAW-CUT (S.C.)
3/4" = 1'-0"

CONSTRUCTION JOINT (C.J.)

20 INTERIOR SLAB JOINTS
3/4" = 1'-0"

CONSTRUCTION JOINT (C.J.)

21 EXTERIOR SLAB JOINTS
3/4" = 1'-0"

16 LIGHT POLE BASE
3/4" = 1'-0"

POCKET FORM ISOLATOR @ COLUMNS
3/4" = 1'-0"

12 EXTERIOR HAUNCH SECTION
3/4" = 1'-0"

SLAB REPAIR/REPLACEMENT JOINT SECTION
3/4" = 1'-0"

DRAWING REVISIONS
NO. | DATE
DRAWING SUBMITTALS
SUBMIT FOR PERMIT — 12.23.25
SUBMIT FOR BID
SUBMIT FOR CONSTRUCTION

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010043060
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

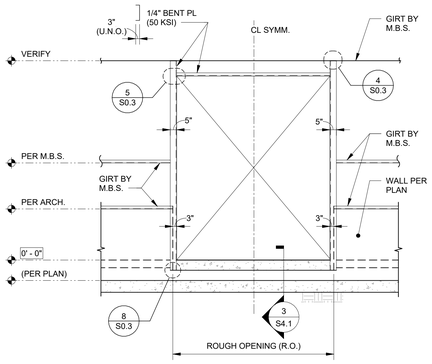
ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

COSTCO WHOLESALE
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

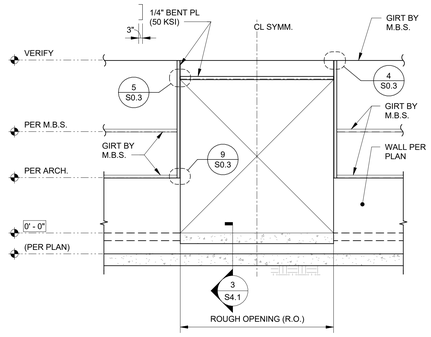
SHEET CONTENTS: SLAB DETAILS

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S0.2

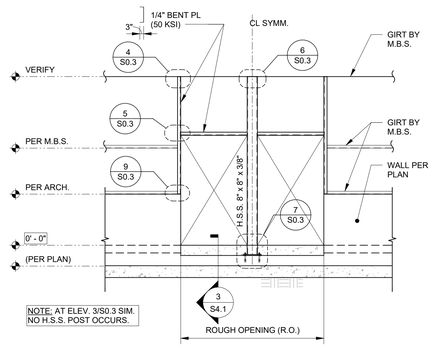
12/22/2025 6:15:42 PM C:\Users\lulsm\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt



1 ELEVATION
1/4" = 1'-0"

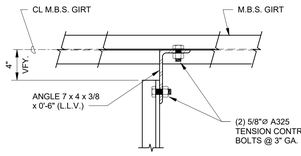


2 ELEVATION
1/4" = 1'-0"

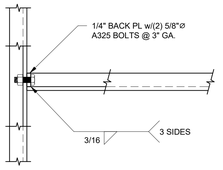


TYPICAL OPENING AT EGRESS DOORS

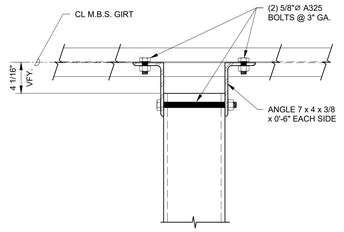
3 ELEVATION
1/4" = 1'-0"



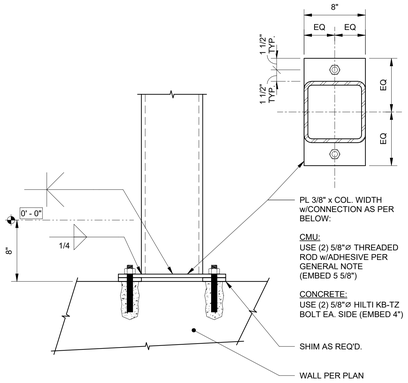
4 SECTION
1 1/2" = 1'-0"



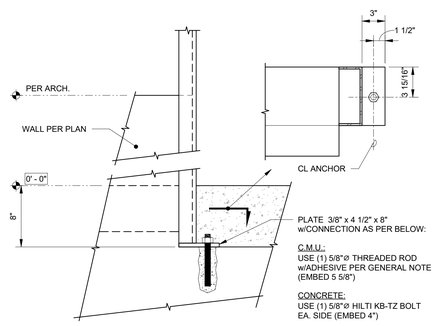
5 SECTION
1 1/2" = 1'-0"



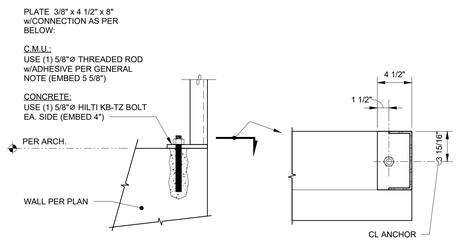
6 SECTION
1 1/2" = 1'-0"



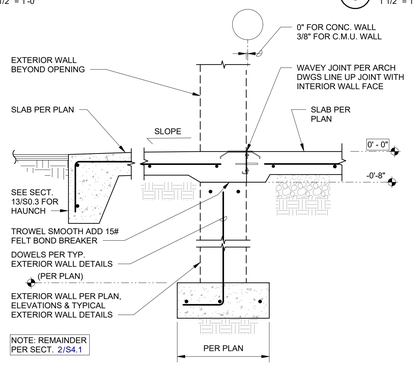
7 SECTION
1 1/2" = 1'-0"



8 SECTION
1 1/2" = 1'-0"



9 SECTION
1 1/2" = 1'-0"



(@ BREAD DOOR)

10 SECTION
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:51

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010020644
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6988
www.engineersnw.com

SHEET CONTENTS: DOOR ELEVATIONS & SECTIONS

COSTCO WHOLESALE

COSTCO LEE'S SUMMIT

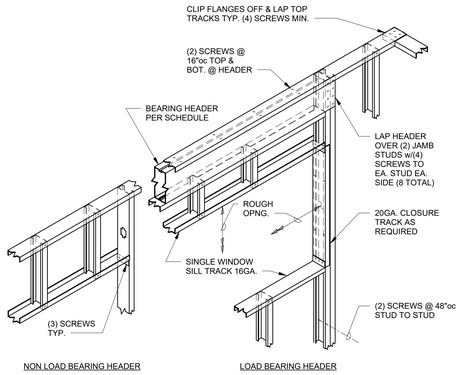
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S0.3

12/22/2025 6:15:42 PM C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt

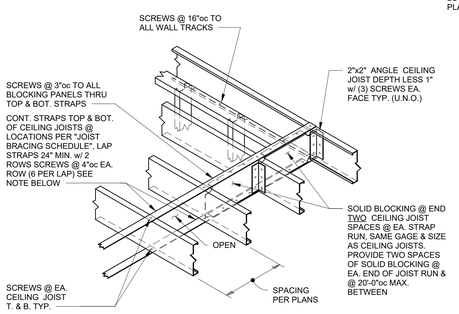
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:51

C:\Users\lluism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:43 PM

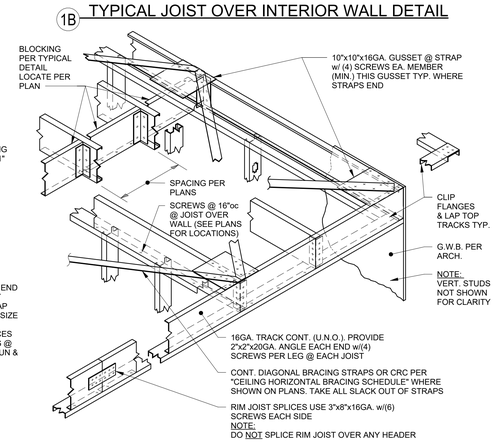


1A TYPICAL WALL HEADER DETAIL

HEADERS NOTED ON THE PLAN AS "HDR." ARE BEARING HEADERS & ARE NOTED IN THE PARTS SCHEDULE. HEADERS RUNNING PARALLEL TO THE JOISTS ARE NON-BEARING (U.N.O.)

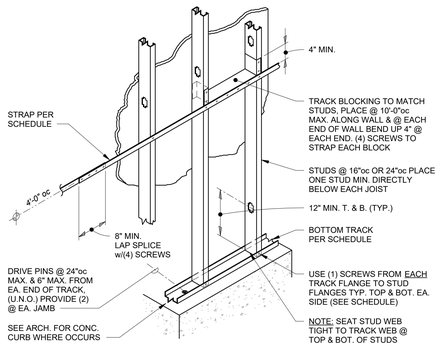


1B TYPICAL JOIST OVER INTERIOR WALL DETAIL



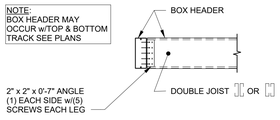
1C TYPICAL JOIST BLOCKING & STRAP DETAIL

CEILING JOIST BLOCKING WHERE NOTED ON PLANS. THE TOP STRAP NOT REQUIRED IF DECKING IS APPLIED TO TOP OF JOIST. THE BOTTOM STRAP IS NOT REQUIRED IF G.W.B. IS APPLIED TO BOTTOM OF JOIST.



1D TYPICAL JOIST TO RIM JOIST w/ DIAGONAL STRAPS

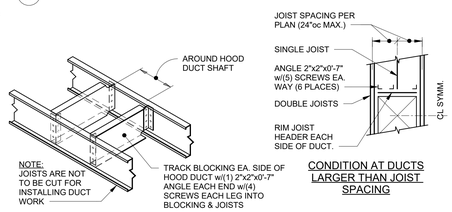
CEILING DIAGONAL STRAP BRACING NOT REQUIRED WHERE DECKING OCCURS.



1E TYPICAL WALL BLOCKING & STRAP DETAIL

STRAP BLOCKING IS REQUIRED ONLY IF STUDS ARE SHEATHED ONE SIDE ONLY.

1F TYPICAL CEILING HEADER TO HEADER CONNECTION



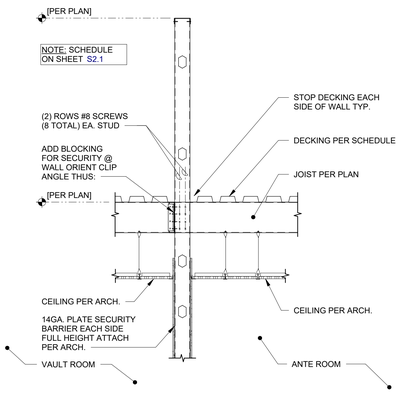
CONDITION AT DUCTS LARGER THAN JOIST SPACING

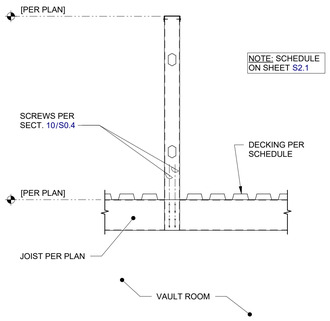
1G TYPICAL DUCT PENETRATION THRU CEILING FRAMING

NOTE: SEE ARCH. FOR LOCATIONS

1 TYPICAL LIGHT GAGE FRAMING DETAILS

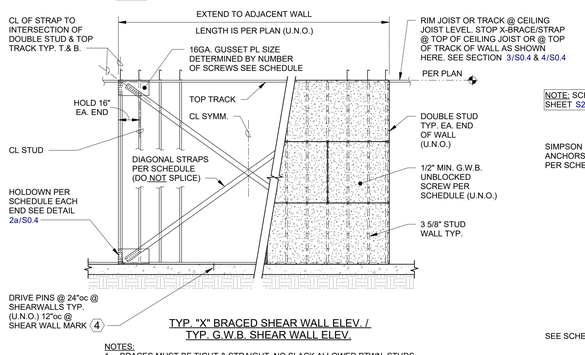
3/4" = 1'-0"





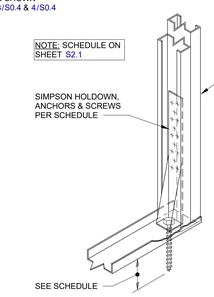
2 ELEVATION

1/4" = 1'-0"



TYP. "X" BRACED SHEAR WALL ELEV. / TYP. G.W.B. SHEAR WALL ELEV.

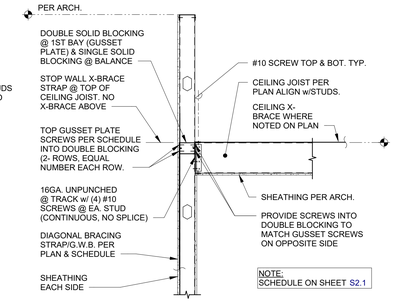
NOTES:
1. BRACES MUST BE TIGHT & STRAIGHT. NO SLACK ALLOWED BTWN. STUDS.
2. G.W.B. MUST RUN FULL HEIGHT TO CEILING JOIST WHERE NOTED AS SHEAR WALL.
3. SCHEDULES LOCATED ON SHEET S2.1 U.N.O.



DETAIL '2A'

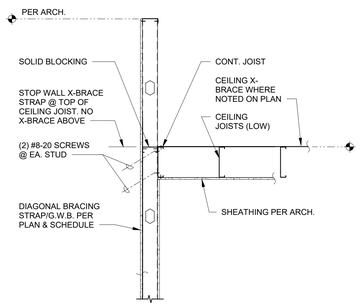
3 SECTION

3/4" = 1'-0"



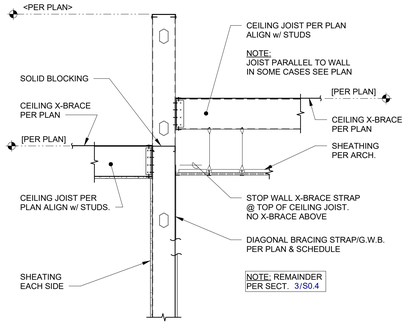
4 SECTION

3/4" = 1'-0"



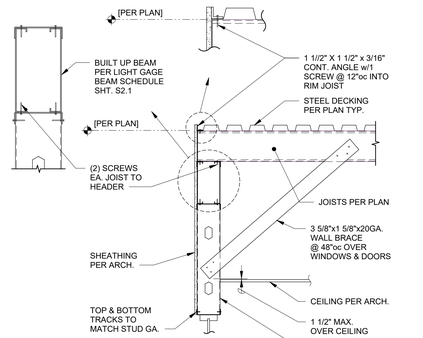
5 SECTION

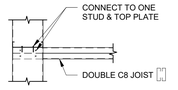
3/4" = 1'-0"



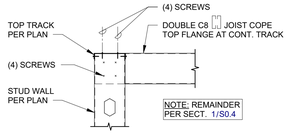
6 SECTION

3/4" = 1'-0"



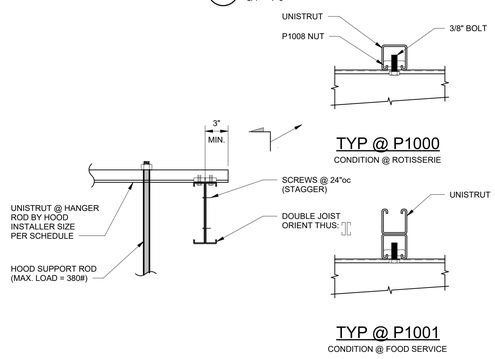


PLAN



7 SECTION

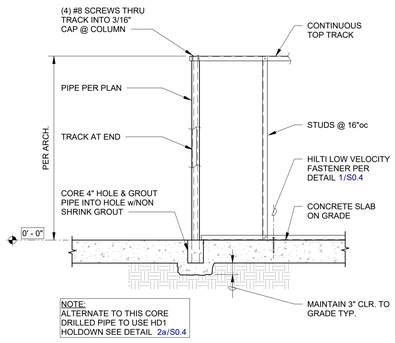
3/4" = 1'-0"



(TYP @ HOODS)

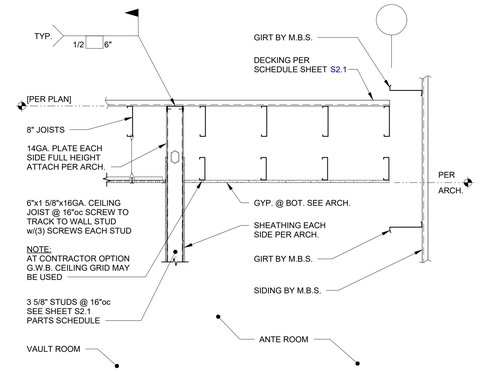
8 SECTION

3/4" = 1'-0"



9 SECTION

3/4" = 1'-0"



10 SECTION

3/4" = 1'-0"

11 SECTION

3/4" = 1'-0"

12 SECTION

1 1/2" = 1'-0"

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc. P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

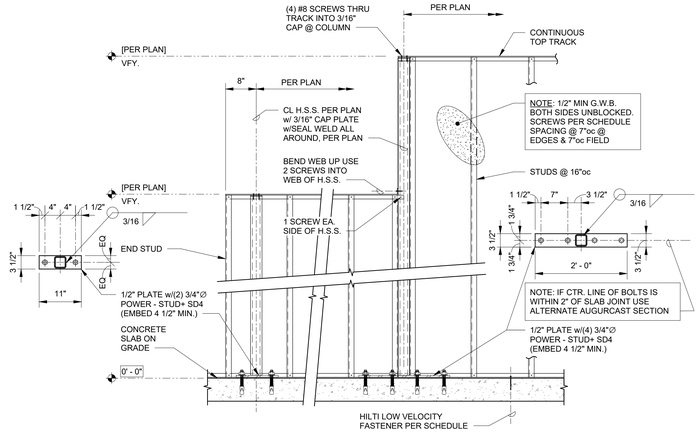
SHEET CONTENTS: LIGHT GAGE FRAMING SECTIONS

COSTCO WHOLESALE

COSTCO LEE'S SUMMIT

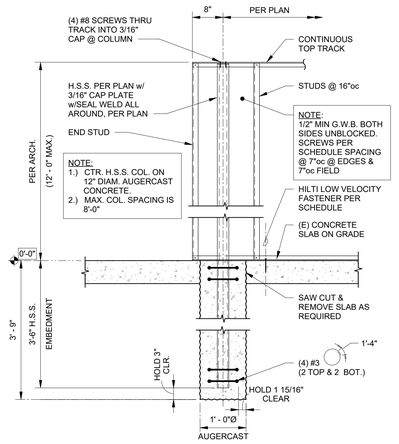
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S0.4



HEARING CENTER WALL DETAIL

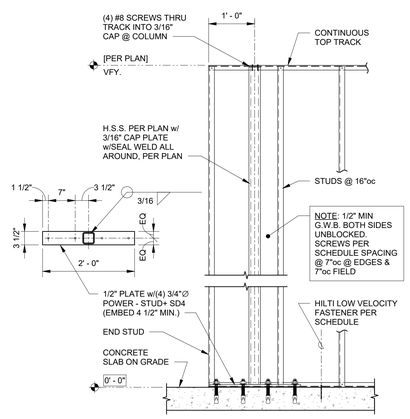
1 SECTION
3/4" = 1'-0"



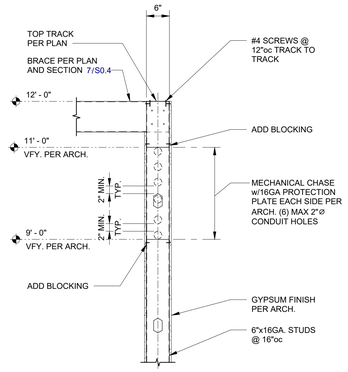
HEARING CENTER WALL DETAIL ALTERNATE

NOTE: TO BE USED IF CTR. LINE OF BOLTS IS WITHIN 2" OF SLAB SAW CUT JOINT.

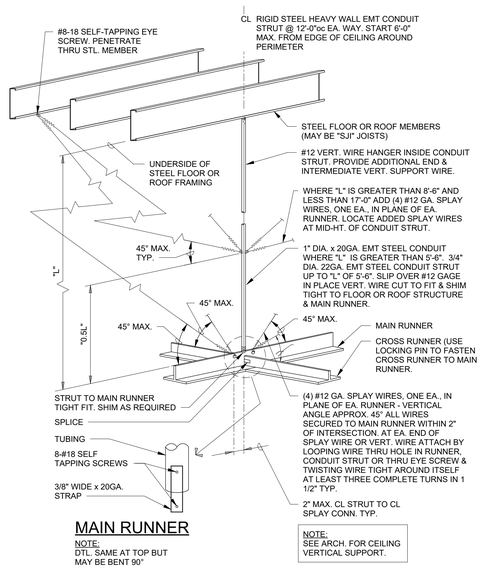
2 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



MAIN RUNNER

NOTE: DTL. SAME AT TOP BUT MAY BE BENT 90°

15 TYPICAL SUSPENDED CEILING "LATERAL" SUPPORT DETAIL (ONLY)
3/4" = 1'-0"

BRACING NOT REQUIRED @ BLDGS w/ SEISMIC DESIGN CATEGORY A & B (SEE GEN. NOTES)

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:51

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010043564
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

SHEET CONTENTS: LIGHT GAGE FRAMING SECTIONS

COSTCO WHOLESALE

COSTCO LEE'S SUMMIT

NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S0.5

12/22/2025 6:15:44 PM C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt

NOTE: THE CONTRACTOR IS TO ACCURATELY VERIFY THE VERTICAL & HORIZONTAL LOCATION OF ALL THE ANCHOR BOLTS FOR THE COLUMNS PRIOR TO CASTING CONCRETE. THE CONTRACTOR IS TO NOTIFY ENW OF ALL DISCREPANCIES BETWEEN THE M.B.S. DRAWINGS AND THESE DWGS. AT LEAST 40 HOURS PRIOR TO CASTING CONCRETE. THE CONTRACTOR IS TO ALSO VERIFY THAT THE ANCHOR BOLTS ARE SECURE AND WILL NOT MOVE DURING CONCRETE PLACEMENT

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/26/2026 4:03:51

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI JOSE L. PARADA NUMBER PE-2010024004 PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 330 Lynnwood, WA 98036
Ph: (206)525-7580, Fax: (206)522-6698
www.engineersnw.com

COSTCO WHOLESALE
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

SHEET CONTENTS: FOUNDATION PLAN

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S1.0

1 FOUNDATION PLAN

1/16" = 1'-0"

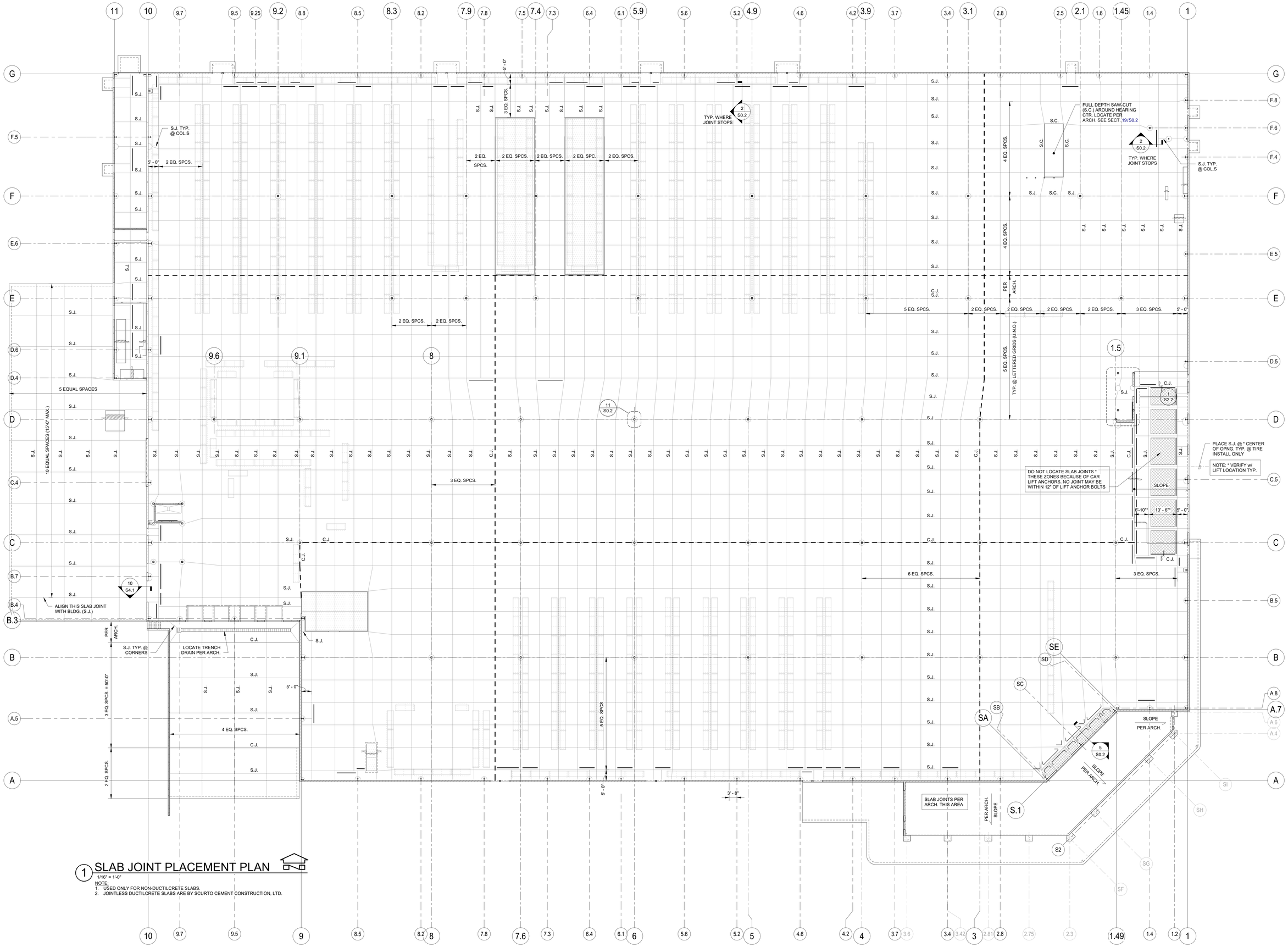
NOTES:
1. TOP OF SLAB ON GRADE IS AT DATUM ELEVATION 0'-0". (U.N.O.).
2. TOP OF FOOTING ELEVATIONS INDICATED THUS: (' - ").
3. CENTER FOOTINGS ON WALLS OR COLUMNS. (U.N.O.).
4. SEE DWG. S4.0 FOR FOOTING AND PLINTH SCHEDULE.
5. SEE DWG. S0.1 FOR GENERAL NOTES.
6. SEE DWG. S1.1 FOR SLAB JOINTS PLACEMENT PLAN.

C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2026 6:15:45 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEWED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:51

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE



1 SLAB JOINT PLACEMENT PLAN

1/16" = 1'-0"

NOTE:
1. USED ONLY FOR NON-DUCTILCRETE SLABS.
2. JOINTLESS DUCTILCRETE SLABS ARE BY SCURTO CEMENT CONSTRUCTION, LTD.

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010024564
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

COSTCO WHOLESALE

COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

SHEET CONTENTS: SLAB JOINT PLACEMENT PLAN

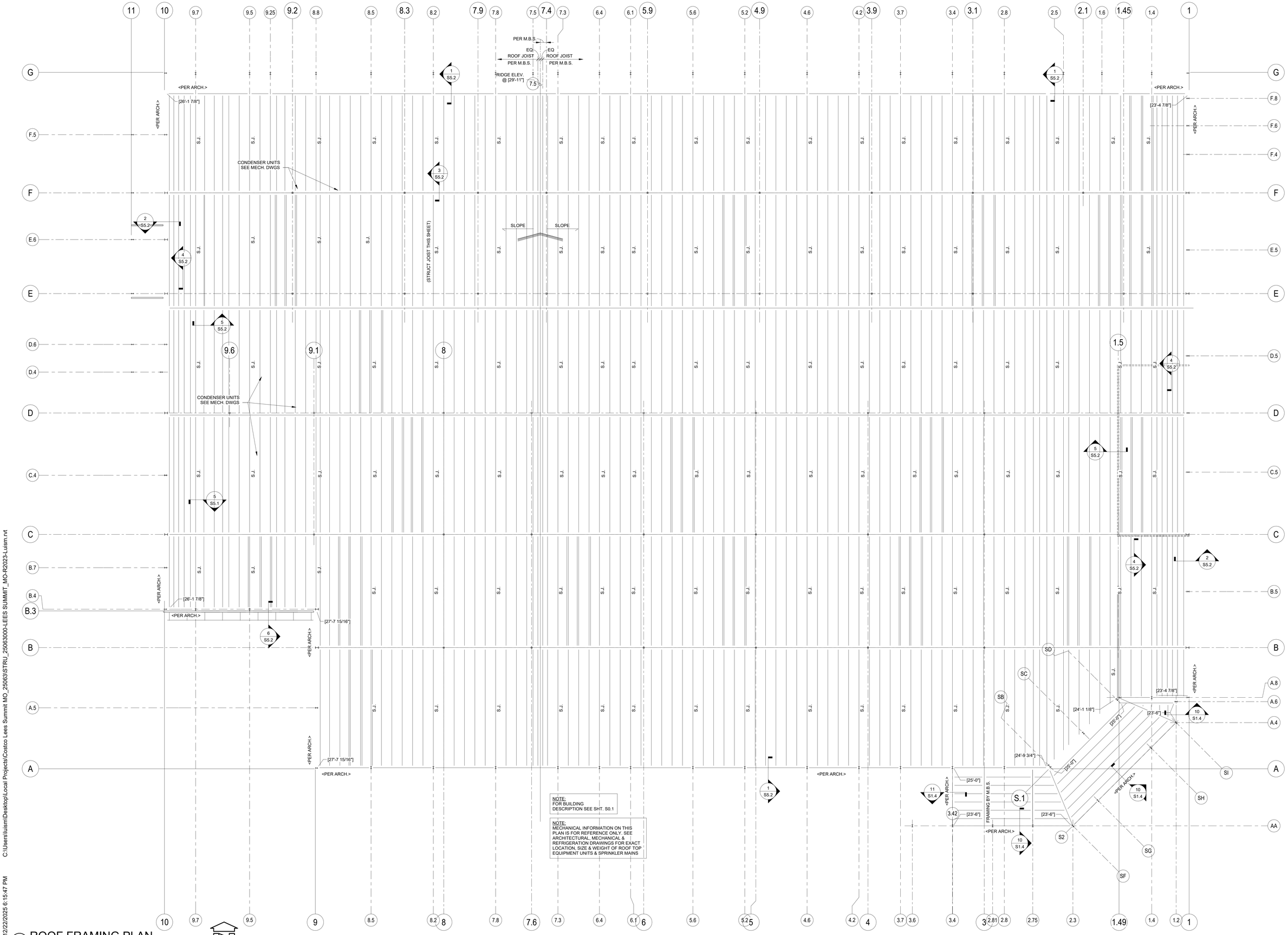
JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S1.1

C:\Users\luism\Desktop\Local Projects\Costco Lees Summi MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:47 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEWED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:51

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE



NOTE:
FOR BUILDING DESCRIPTION SEE SHT. S0.1

NOTE:
MECHANICAL INFORMATION ON THIS PLAN IS FOR REFERENCE ONLY. SEE ARCHITECTURAL, MECHANICAL & REFRIGERATION DRAWINGS FOR EXACT LOCATION, SIZE & WEIGHT OF ROOF TOP EQUIPMENT UNITS & SPRINKLER MAINS

1 ROOF FRAMING PLAN

1/16" = 1'-0"

1. [* - *] INDICATES TOP OF FRAMING ELEVATION (BOTTOM OF DECK) ABOVE DATUM.
2. < * - * > INDICATES TOP OF PARAPET ELEVATION ABOVE DATUM.
3. CONTRACTOR AND TRUSS SUPPLIER TO VERIFY M/U WEIGHTS AND LOCATIONS.
4. SEE ARCH. DWGS. FOR LOCATION & SIZES OF FIRE SPRINKLER MAINS.
5. SEE ARCH. DWGS. FOR LOCATION & WEIGHT OF ROOF MOUNTED MECH. UNITS.
6. ◆ INDICATES WALL BRACING BY M.B.S.

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010024504
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)224-6698
www.engineersnw.com

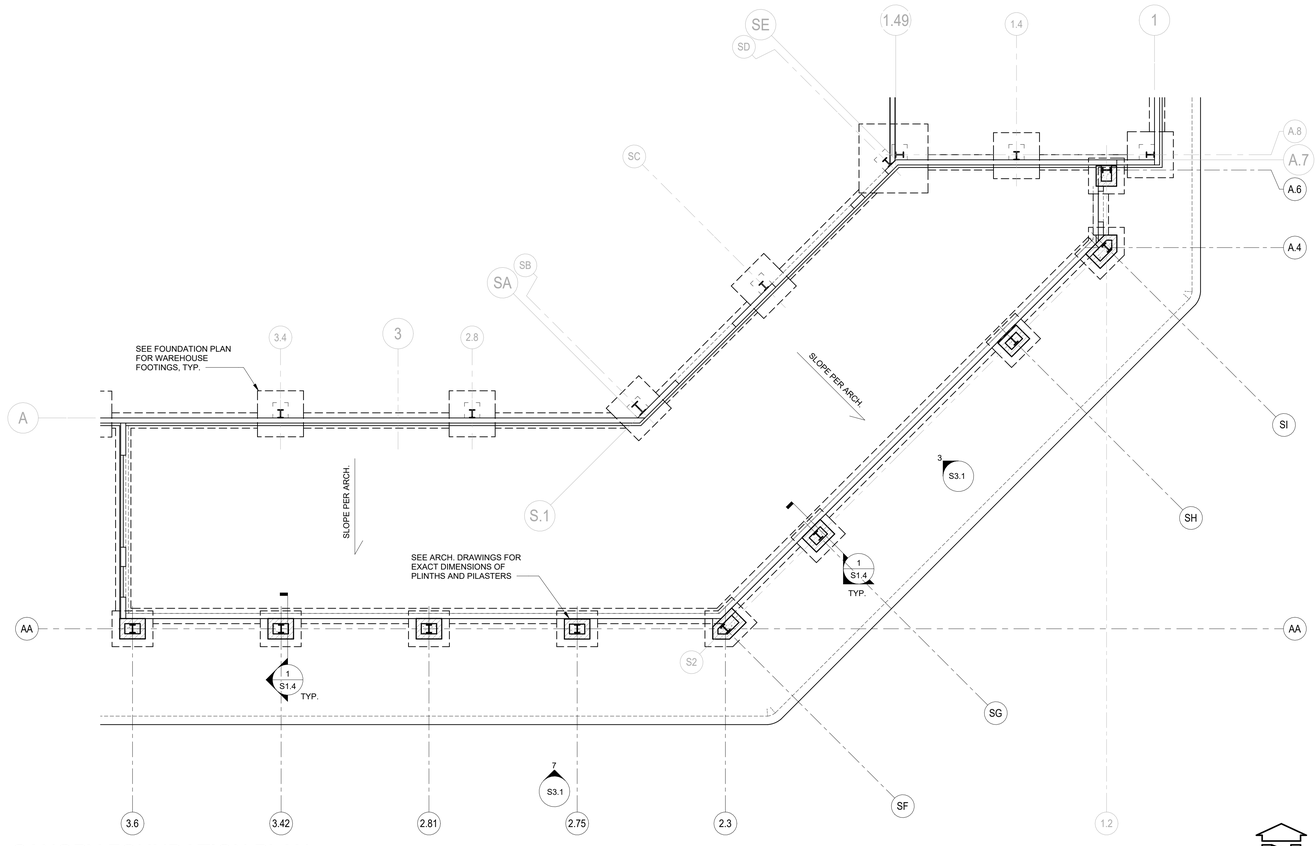
COSTCO WHOLESALE

COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

SHEET CONTENTS: ROOF FRAMING PLAN

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S1.2

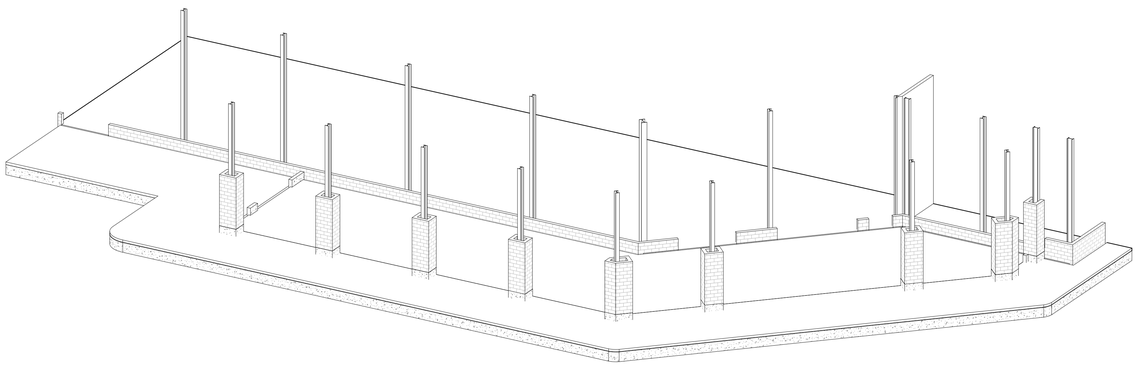
C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:47 PM



1 CANOPY FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. TOP OF SLAB ON GRADE IS AT DATUM ELEVATION 0'-0". (U.N.O.).
2. TOP OF FOOTING ELEVTIONS INDICATED THUS: (' - ").
3. CENTER FOOTINGS ON WALLS OR COLUMNS. (U.N.O.).
4. SEE DWG. S4.0 FOR FOOTING AND PLINTH SCHEDULE.
5. SEE DWG. S0.1 FOR GENERAL NOTES.



2 CANOPY PERSPECTIVE

C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:48 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:52

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010035264
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530, Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)224-6698
www.engineersnw.com

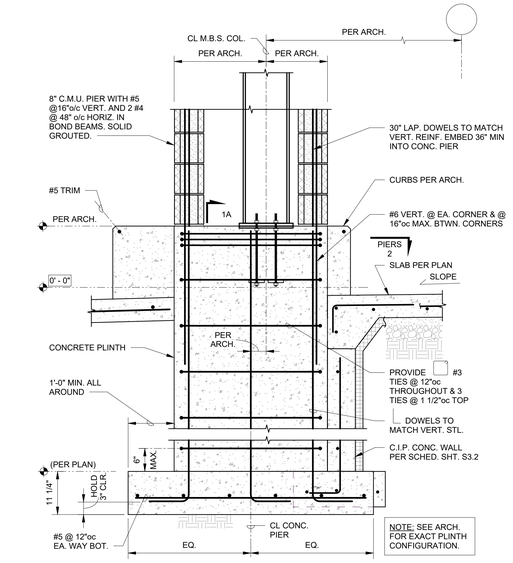
SHEET CONTENTS: ENLARGED CANOPY FOUNDATION PLAN

COSTCO WHOLESALE

COSTCO LEE'S SUMMIT

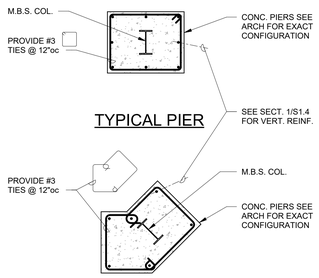
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S1.3



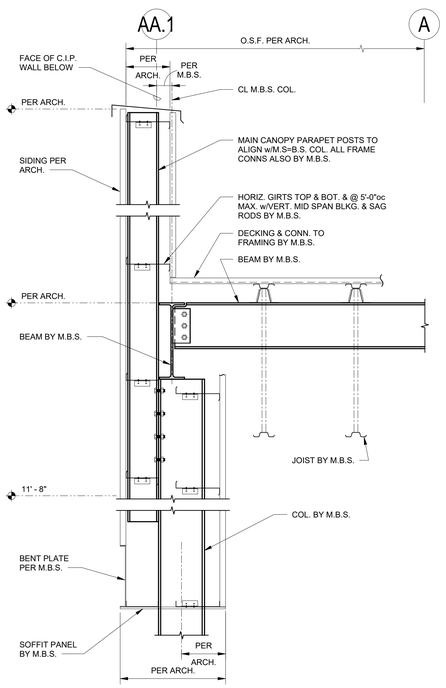
1 SECTION

3/4" = 1'-0"



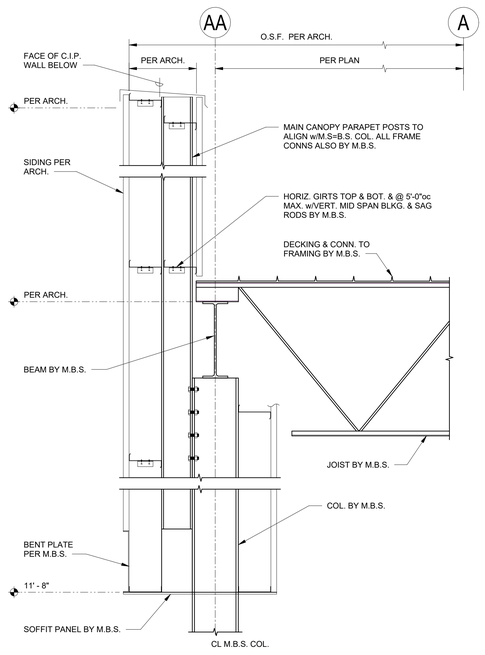
1B CONCRETE PIER PLANS

3/8" = 1'-0"



10 SECTION

3/4" = 1'-0"



11 SECTION

3/4" = 1'-0"

C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:48 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:52

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010020644
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc. P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

SHEET CONTENTS: CANOPY SECTIONS

COSTCO WHOLESALE

COSTCO LEE'S SUMMIT

NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S1.4

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEWED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:52

WALL BRACING SCHEDULE

MARK	STRAP (50 k.s.i.)	HOLD DOWN	NUMBER OF SCREWS		
			GUSSET TO T&B OF TRACK	GUSSET TO DOUBLE...	GUSSET TO STRAP
1	1/2" G.W.B. (NO STRAP REQUIRED)	NONE	UNBLOCKED SCREW @ 7"oc EDGES & 7"oc FIELD		
2	2" x 16GA.	---	8	18	10
3	3" x 16GA.	LTTP2	12	25	15
4	4 1/2" x 16GA.	HTT4	13	24	19

NOTES:
1. SCREWS MUST BE PLACED AT LEAST 3/4" APART AND MUST BE 3/4" FROM LEDGE OR END OF ALL METAL PIECES.

HOLD DOWN SCHEDULE

MARK	HOLD DOWN	ANCHORS	SCREWS
HD1	SIMPSON S/LTTP2	1/2"Ø SIMPSON TITEN HD (EMBED 3 1/4") INSPECTED INSTALLATION I.C.C. ESR 2713	(12) #10
HD2	SIMPSON HTT4	5/8"Ø SIMPSON TITEN HD (EMBED 3 1/4") INSPECTED INSTALLATION I.C.C. ESR 2713	(18) #10

WALL STUD WIDTH SCHEDULE

MARK	STUD WIDTH
6	6"
8	8"

NOTES:
1. ALL WALLS ARE 3 5/8" UNLESS NOTED PER MARK ABOVE.
2. SEE LIGHT GAGE PARTS SCHEDULE FOR GAGE AND MINIMUM PROPERTIES.

JOIST TYPE AND SPACING SCHEDULE

JOIST MARK	JOIST TYPE	JOIST SPACING
J1	8" x 1 5/8" x 16GA.	48" oc
J2	8" x 1 5/8" x 16GA.	16" oc
J3	8" x 2" x 14GA.	12"oc

LIGHT GAGE BEAM SCHEDULE

MARK	BUILT UP BEAM	TRACKS AND SCREWS
B0	(2) C8 x 1 5/8 x 16GA HDR.	3 5/8" x 1 1/4" x 16GA. TRACK T. & B. w/2 SCREWS @ 16"oc
B1	(2) C8 x 2 x 16GA HDR.	6" x 1 1/4" x 16GA. TRACK T. & B. w/2 SCREWS @ 16"oc
B2	(2) C8 x 2 x 16GA HDR.	8" x 1 1/4" x 16GA. TRACK T. & B. w/2 SCREWS @ 16"oc
B3	(2) C12 x 2 x 16GA HDR.	6" x 1 1/4" x 16GA. TRACK T. & B. w/2 SCREWS @ 16"oc
B4	(2) C12 x 2 x 12GA HDR.	6" x 1 1/4" x 12GA. TRACK T. & B. w/2 SCREWS @ 4"oc SEE NOTE #4
B5	(2) C12 x 2 x 12GA HDR.	8" x 1 1/4" x 12GA. TRACK T. & B. w/2 SCREWS @ 4"oc SEE NOTE #4

NOTES:
1. WHERE BEAM IS USED IN WALL BOTTOM TRACK MAY BE TURNED FLANGE DOWN FOR WALL STUDS.
2. SEE LIGHT GAGE PARTS SCHEDULE FOR MINIMUM PROPERTIES AND REMAINDER OF DETAILS.
3. SEE APPLICABLE SECTIONS FOR CONNECTIONS EACH END.
4. #12 SCREWS REQUIRED FOR ALL 12GA. MEMBERS

LIGHT GAGE AND MISC. PARTS SCHEDULE

GROUP	ITEM	CALLOUT	MINIMUM PROPERTIES					*APPROVED SUPPLIERS & THEIR CALLOUT FOR THESE ITEMS
			Fy (K.S.i.)	I(in.⁴)	S(in.³)	A(in.²)	ry	
HEADER SEE DETAIL 12/S0.4	C12 HEADERS**	(2) 12" x 2" x 16GA.	50	32.67	4.14	0.78	1.74	(2)1200S200 - 54 (50ksi)
	C12 (SPCL.) HEADER CAPS T. & B.	4" x 1 1/4" x 16GA.	50	0.90	0.43	0.37	0.37	400T125 54 (50ksi)
	C12 (TIRE CTR. SECURITY GRILLE)	12" x 2" x 12GA.	50	30.42	5.07	1.68	0.61	1200S200 - 97 (50ksi)
	C8 HEADERS ** (TYP. U.N.O.) (12'-0" MAX. SPAN)	(2) 8" x 1 5/8" x 16GA.	50	11.20	2.46	1.34	1.39	(2)800S162 - 54 (50ksi)
	C8 HEADERS **	(2) 8" x 2" x 16GA.	50	13.15	3.00	1.45	1.67	(2)800S200 - 54 (50ksi)
JOISTS	RIM JOISTS & BLKG.**	8" x 1 1/4" x 16GA.	50	4.75	1.16	0.59	0.31	800T125 - 54 (50ksi)
	CEILING JOIST**	8" x 1 5/8" x 16GA.	50	5.74	1.43	0.67	0.54	800S162 - 54 (50ksi)
	CEILING TRACK**	8" x 1 1/4" x 16GA.	50	4.75	1.16	0.59	0.31	800T125 - 54 (50ksi)
	LOCKER ROOM PLATFORM	8" x 2" x 14GA.	50	8.12	2.03	0.80	0.69	800S200-68 (50ksi)
WALLS, SEE DETAILS SHEET S0.4	WALL TOP TRACK** (U.N.O.)	3 5/8" x 1 1/4" x 16GA.	50	0.72	0.38	0.35	0.37	362T125 - 54 (50ksi)
	WALL TOP TRACK** (SPCL.)	3 5/8" x 1 1/4" x 12GA.	50	1.34	0.67	0.62	0.36	362T125 - 97 (50ksi)
	WALL BOT. TRACK** (U.N.O.)	3 5/8" x 1 1/4" x 16GA.	50	0.72	0.38	0.35	0.37	362T125 - 54 (50ksi)
	WALL STUDS	3 5/8" x 1 5/8" x 20GA.	33	0.55	0.30	0.26	0.61	362S162 - 33
	WALL TOP TRACK**	6" x 1 1/4" x 16GA.	50	2.34	0.76	0.48	0.34	600T125 - 54 (50ksi)
	WALL BOTTOM TRACK**	6" x 1 1/4" x 16GA.	50	2.34	0.76	0.48	0.34	600T125 - 54 (50ksi)
	(6) WALL STUDS	6" x 1 5/8" x 20GA.	33	1.79	0.60	0.34	0.58	600S162 - 33
	(6) WALL STUDS	6" x 1 5/8" x 18GA.	33	2.32	0.77	0.45	0.58	600S162 - 43
	(8) WALL STUDS	8" x 1 5/8" x 20GA.	33	3.38	0.71	0.413	0.55	800S162 - 33 (33ksi)
	WALL TRACKS	8" x 1 1/4" x 16GA.	50	4.75	1.16	0.59	0.31	800T125 - 54 (50ksi)
	1 1/2" x 20GA. BRACING STRAPS (HORIZ. IN WALLS)	1 1/2" WIDE x 20GA. FLAT STRAP ALT. 1 1/2" x 16GA....	33	---	---	---	---	---
	(1) 16GA. STRAPS (DIAGONAL IN WALLS)	16GA. FLAT STRAP	50	---	---	---	---	STRAP WIDTH PER WALL BRACING SCHEDULE
MISC.	(A) 16GA. STRAPS (IN CEILING)	16GA. FLAT STRAP ALT. 1 1/2" x 16GA. C.R.C.	50	---	---	---	---	STRAP WIDTH PER CEILING BRACING SCHEDULE
	2" x 2" ANGLE	GAGE TO MATCH SUPPORTED MEMBER	33	---	---	---	---	---
	STEEL DECK	1 1/2" DEEP x 22GA. TYPE "B"	50	0.175	0.184	---	---	VERCO TYPE HSB-SS I.C.C. ER-2078 / WHEELING TYPE HS BW I.C.C. ESR-1116
	SCREWS (MTL. TO MTL.) TYPICAL (U.N.O.)	#10-16 x 1" HWH #3 OR PPH #3	---					HILTI w/ 5/16"ø MIN. HEAD
	SCREWS (MTL TO MTL.) FOR 12GA. ONLY	#12-14 x 1" HWH	---					HILTI w/5/16"ø MIN. HEAD
	SCREWS (G.W.B. TO MTL.)	#10-24 x 1 1/2" PWH #3	---					HILTI ---
	SCREWS (PLYWOOD TO MTL.)	#10-18 x 1 1/2" PWH #3	---					HILTI 6"oc EDGES & 12"oc FIELD
	WALL & BOTTOM TRACK ANCHORS	#DS37P10 (0.177"ø x 1 1/2" LOW VELOCITY DRIVE PINS	---					HILTI I.C.C. ESR-1663
	UNISTRUT	P1001	---					

NOTES:
1.) * SUBSTITUTION OF OTHER SUPPLIERS FOR THESE ITEMS NOT ALLOWED.
** THIESE JOIST & TRACK MEMBERS TO BE UNPUNCHED.
2.) SINGLE FRAMING MEMBER SHOWN THUS: [
3.) DOUBLE FRAMING MEMBER SHOW THUS: (U.N.O.) [ ]

THICKNESS OF STEEL COMPONENTS'

GAGE	DESIGN THICKNESS	MINIMUM THICKNESS²
22	.0283	.0269
20	.0346	.0329
18	.0451	.0428
16	.0566	.0538
14	.0713	.0677
12	.1017	.0966
10	.1240	.1265

NOTES:
1. UNCOATED STEEL THICKNESS. THICKNESS IS FOR CARBON SHEET STEEL.
2. MINIMUM THICKNESS REPRESENTS 95% OF DESIGN THICKNESS AND IS THE MINIMUM ACCEPTABLE THICKNESS DELIVERED TO THE JOB SITE BASED ON SECTION A.I.S.I. S100-16 SECTION B7.1

CEILING HORIZONTAL "X" BRACING SCHEDULE

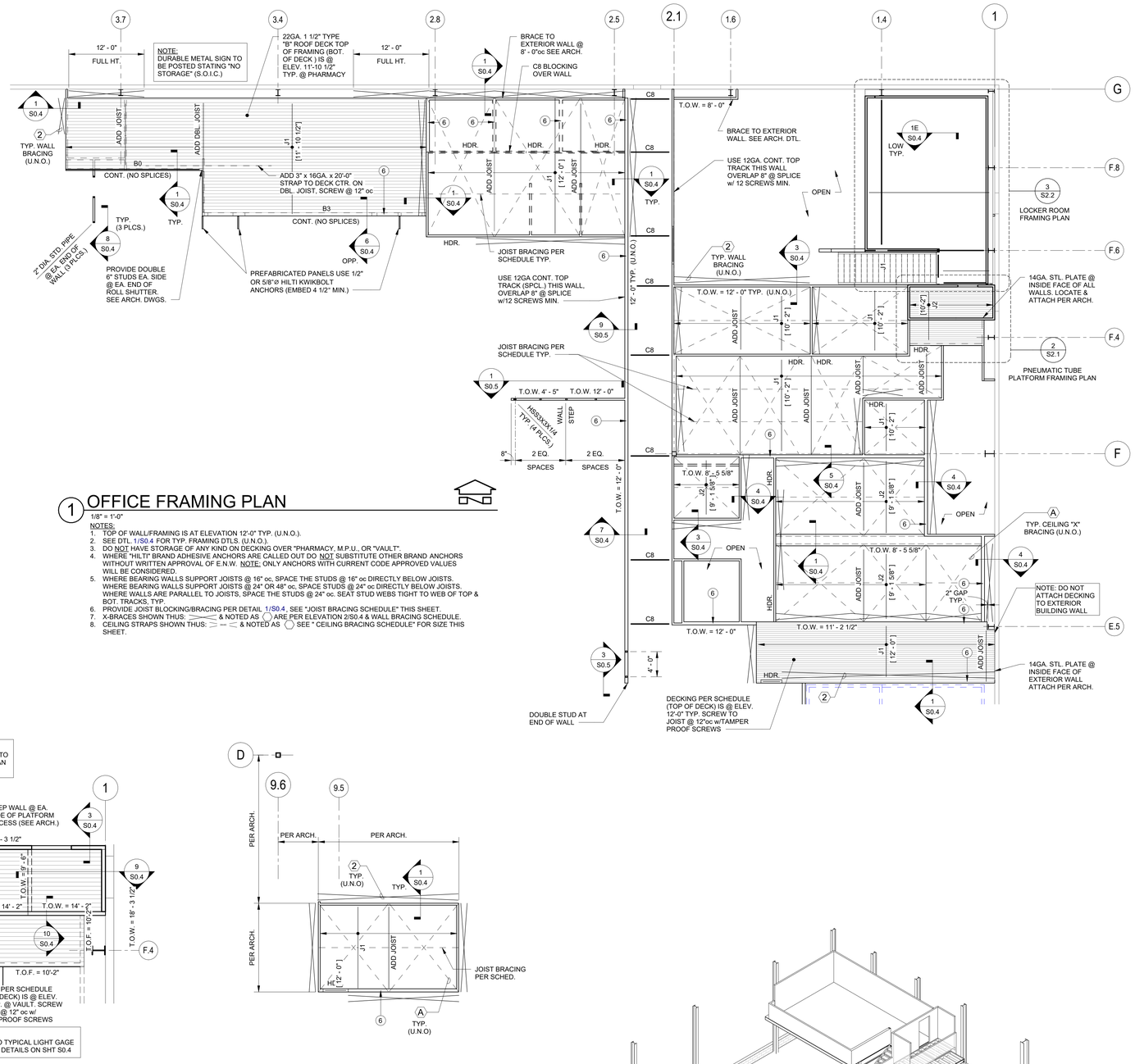
MARK	STRAP/CRC (50 k.s.i.)	NUMBER OF SCREWS		
		GUSSET TO TRACK	GUSSET TO STRAP	STRAP SPLICE
A	1 1/2" x 16GA.	2	2	2
B	2" x 16GA.	3	3	3
C	3" x 16GA.	4	4	4

NOTES:
1. SCREWS MUST BE PLACED AT LEAST 3/4" APART AND MUST BE 3/4" FROM EDGE OR END OF ALL METAL PIECES.
2. FOR BALANCE OF INFO. SEE SECTION 1/S0.4

JOIST BRACING SCHEDULE

JOIST SPAN	TOP AND BOTTOM FLANGE BRACING
UP TO AND INCLUDING 10'	NONE
10' UP TO AND INCLUDING 14'	ONE ROW AT MID-SPAN
14' UP TO AND INCLUDING 18'	TWO ROWS AT THIRD SPANS
18' UP TO AND INCLUDING 21'	THREE ROWS AT QUARTER SPANS

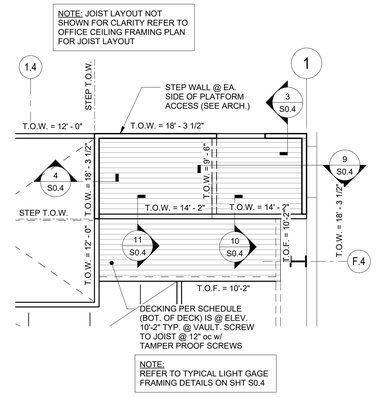
NOTES:
1. USE 1 1/2" x 16GA. FLAT STRAP ON TOP & BOT. OF JOIST. OMIT TOP STRAP IF DECK OCCURS. FOR ALTERNATE TO STRAP BRACING USE 1 1/2" CRC ON TOP OF JOIST. FASTEN TO EA. JOIST w/2 SCREWS (1 TOP & 1 BOT.)
2. SPACE BRACING AS NOTED ABOVE EXCEPT WHEN NOTED OTHERWISE ON PLANS.
3. SEE SECT. 1C/S0.4 FOR DETAILS AND EXCEPTIONS.



1 OFFICE FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. TOP OF WALL/FRAMING IS AT ELEVATION 12'-0" TYP. (U.N.O.).
2. SEE DTL. 1/S0.4 FOR TYP. FRAMING DTLS. (U.N.O.).
3. DO NOT HAVE STORAGE OF ANY KIND ON DECKING OVER "PHARMACY, M.P.U., OR "VAULT".
4. WHERE "HILTI" BRAND ADHESIVE ANCHORS ARE CALLED OUT DO NOT SUBSTITUTE OTHER BRAND ANCHORS WITHOUT WRITTEN APPROVAL OF E.N.W. NOTE: ONLY ANCHORS WITH CURRENT CODE APPROVED VALUES WILL BE CONSIDERED.
5. WHERE BEARING WALLS SUPPORT JOISTS @ 16" oc, SPACE THE STUDS @ 16" oc DIRECTLY BELOW JOISTS. WHERE BEARING WALLS SUPPORT JOISTS @ 24" OR 48" oc, SPACE STUDS @ 24" oc DIRECTLY BELOW JOISTS. WHERE WALLS ARE PARALLEL TO JOISTS, SPACE THE STUDS @ 24" oc. SEAT STUD WEBS TIGHT TO WEB OF TOP & BOT. TRACKS, TYP.
6. PROVIDE JOIST BLOCKING/BRACING PER DETAIL 1/S0.4 , SEE "JOIST BRACING SCHEDULE" THIS SHEET.
7. X-BRACES SHOWN THUS: ⟋⟍ & NOTED AS (X) ARE PER ELEVATION 2/S0.4 & WALL BRACING SCHEDULE.
8. CEILING STRAPS SHOWN THUS: ⟋⟍ & NOTED AS (X) SEE " CEILING BRACING SCHEDULE" FOR SIZE THIS SHEET.



2 PNEUMATIC TUBE PLATFORM FRAMING PLAN

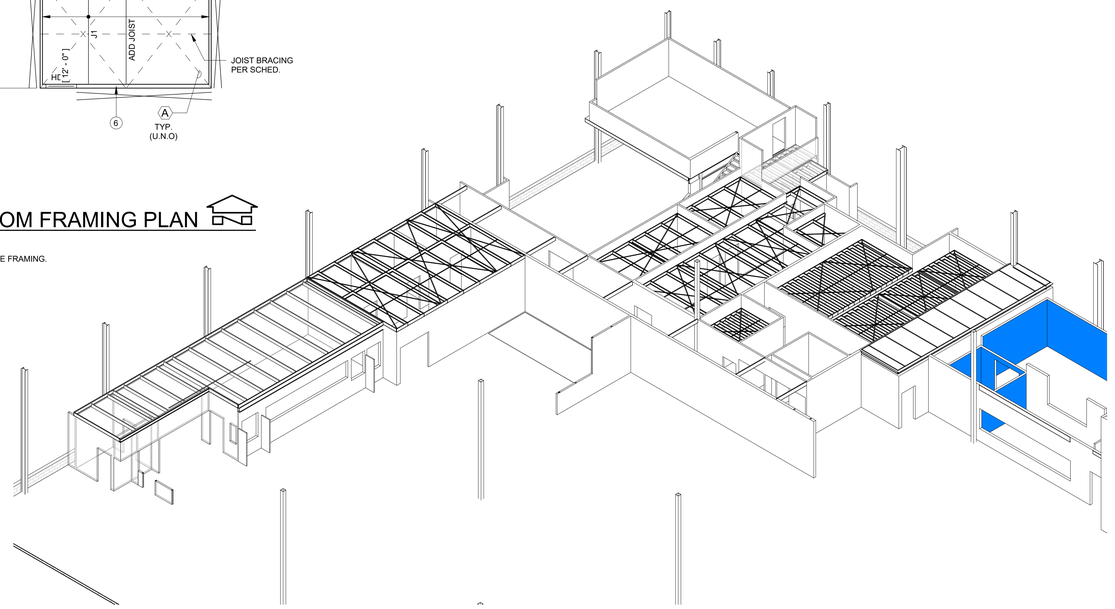
1/4" = 1'-0"

NOTES:
1. SEE NOTES AT OFFICE FRAMING.

3 DEMO ROOM FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. SEE NOTES AT OFFICE FRAMING.



4 OFFICE PERSPECTIVE

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI JOSE L. PARADA NUMBER PE-2010024260 PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW
Engineers Northwest Inc. P.S.
STRUCTURAL ENGINEERS
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

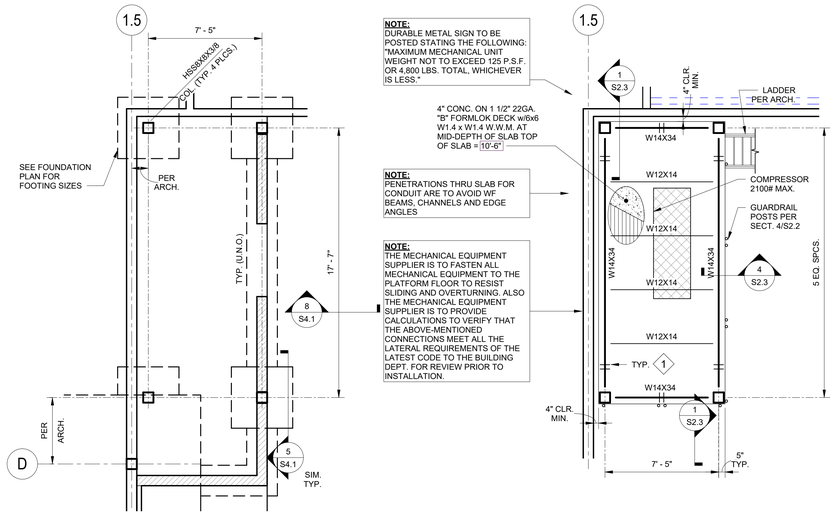
SHEET CONTENTS: OFFICE, TUBE PLATFORM, AND DEMO ROOM FRAMING PLANS

COSTCO WHOLESALE
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S2.1

C:\Users\lulsm\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:50 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEWED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:52



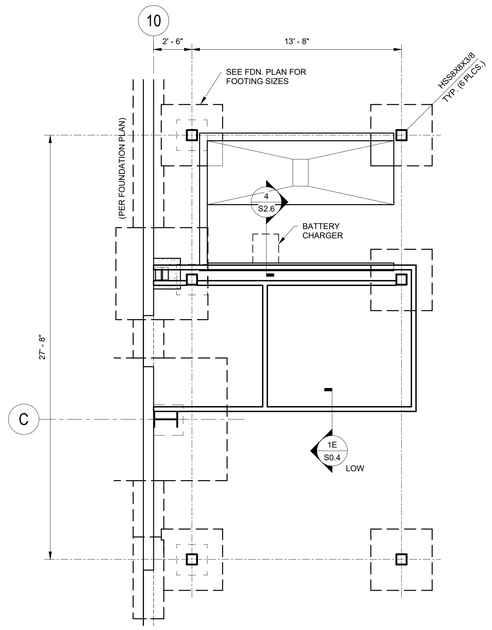
FOUNDATION PLAN

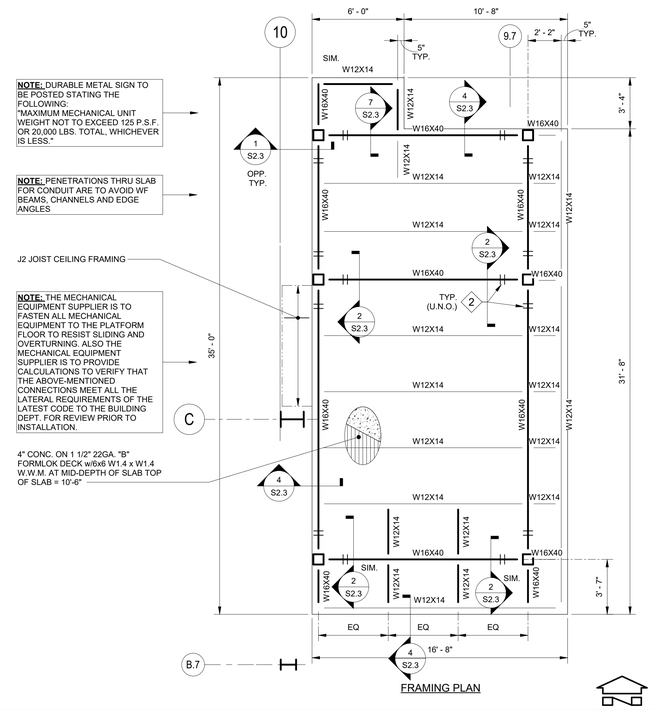
FRAMING PLAN

1 TIRE CENTER PLATFORM PLANS

1/4" = 1'-0"

NOTES:
1. SEE FOUNDATION PLAN FOR FOOTING SIZES & ELEVATIONS.
2. CENTER FOOTINGS ON WALLS OR COLUMNS (U.N.O.)
3. TOP OF SLAB IS @ ELEVATION 10'-6".
4. VERTICAL DESIGN LOAD = 125 P.S.F. FOR EQUIPMENT.
5. PLATFORM SEISMIC LATERAL LOAD BASED ON PLATFORM SELF WT. PLUS EQUIPMENT D.L. ON THE FLOOR
6. FOR DECKING ATTACHMENT SEE "PLATFORM FLOOR DECKING" SECTION OF THE GENERAL NOTES ON SHT. S0.1.
7. EQUIPMENT LOCATION PER ARCH. & MECH DWGS.
8. CENTER BEAMS ON COLUMNS.





FOUNDATION PLAN

FRAMING PLAN

2 MECHANICAL PLATFORM PLANS

1/4" = 1'-0"

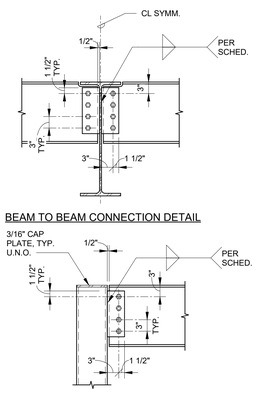
NOTES:
1.) SEE FOUNDATION PLAN FOR FOOTING SIZES & ELEVATIONS.
2.) CENTER FOOTINGS ON WALLS OR COLUMNS (U.N.O.)
3.) TOP OF SLAB IS @ ELEVATION 10'-6".
4.) VERTICAL DESIGN LOAD = 125 P.S.F. FOR EQUIPMENT.
5.) PLATFORM SEISMIC LATERAL LOAD BASED ON PLATFORM SELF WT. PLUS EQUIPMENT D.L. ON THE FLOOR
6.) FOR DECKING ATTACHMENT SEE "PLATFORM FLOOR DECKING" SECTION OF THE GENERAL NOTES ON SHT. S0.1.
7.) EQUIPMENT LOCATION PER ARCH. & MECH DWGS.
8.) CENTER BEAMS ON COLUMNS.
9.) VERIFY ALL DIMENSIONS PER ARCH.

CONNECTION SCHEDULE

PER A.I.S.C. 15TH EDITION (A.S.D.)

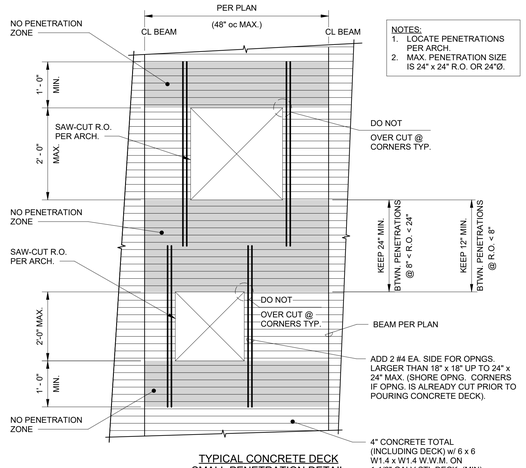
SUPPORTED BEAM	PLATE "t"	# OF 3/4"ø A325N BOLTS	CAPACITY KIPS	WELD SIZE
W10/C10	1/4"	2	16.3k	3/16"
W12/W14	1/4"	3	25.6k	3/16"
C12/C14/C15	1/4"	3	25.6k	3/16"
W16	5/16"	4	42.1k	1/4"
W18	5/16"	5	54.3k	1/4"
W21	5/16"	6	59.3k	1/4"
W24	5/16"	7	72.1k	1/4"

NOTES:
1. CONNECTION SHALL BE PER "CONNECTION SCHEDULE" U.N.O PER SPECIFIC DETAIL/SECTION.
2. HORIZ. DISTANCE FROM SUPPORT FACE TO CENTER OF BOLT GROUP SHALL BE 3" MAXIMUM.
3. DISTANCE FROM CENTER OF BOLT TO EDGE OG SHEAR PLATE TO BE 1 1/2" MAXIMUM.
4. BEAMS SHALL HAVE STANDARD ROUND HOLES U.N.O. IN SPECIFIC DETAIL/SECTION.
5. WELDS SHALL CONFORM TO AWS D1.1 STANDARDS.
6. SEE GENERAL NOTES, S0.1 FOR WELD AND STEEL PLATE REQUIREMENTS.



BEAM TO BEAM CONNECTION DETAIL

BEAM TO COLUMN CONNECTION DETAIL

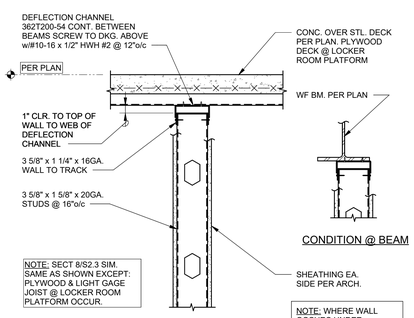


NOTES:
1. LOCATE PENETRATIONS PER ARCH.
2. MAX. PENETRATION SIZE IS 24" x 24" R.O. OR 24"Ø.

TYPICAL CONCRETE DECK SMALL PENETRATION DETAIL

4 SECTION

3/4" = 1'-0"



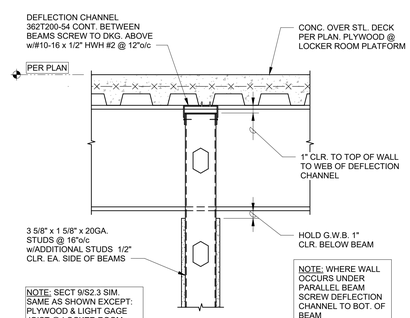
CONDITION @ BEAM

CONDITION BTWN. BEAMS

WALL PARALLEL TO BEAMS

5 SECTION

3/4" = 1'-0"



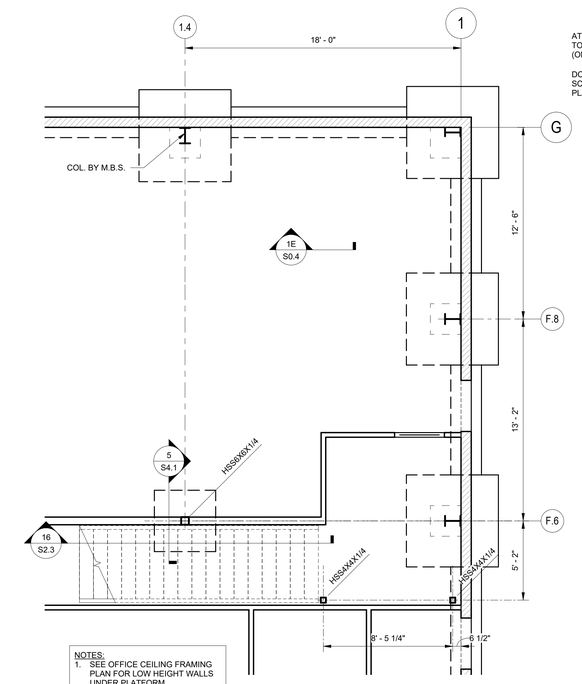
WALL PERPENDICULAR TO BEAMS

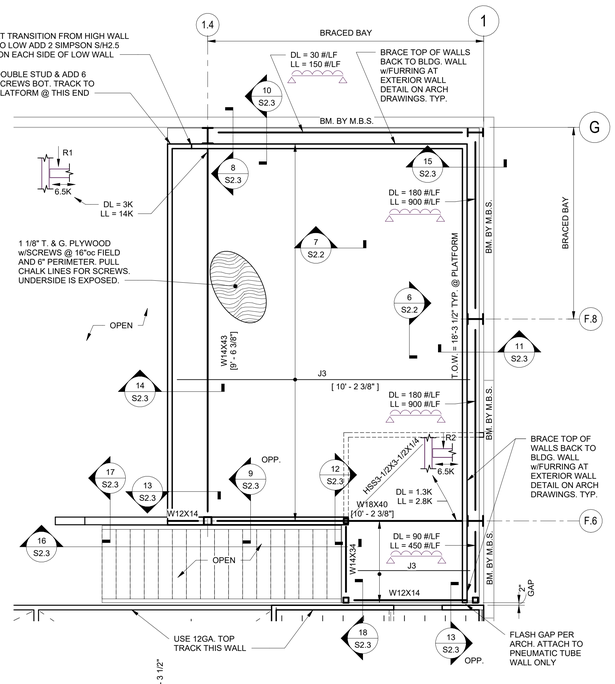
6 SECTION

1 1/2" = 1'-0"

7 SECTION

1 1/2" = 1'-0"





FOUNDATION PLAN

FRAMING PLAN

3 LOCKER ROOM PLATFORM PLANS

1/4" = 1'-0"

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010024560
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

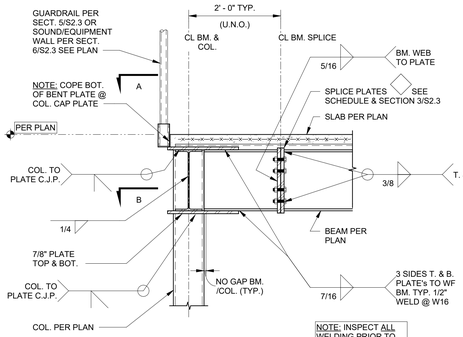
ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 330 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

COSTCO WHOLESALE
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

SHEET CONTENTS: PLATFORM PLANS

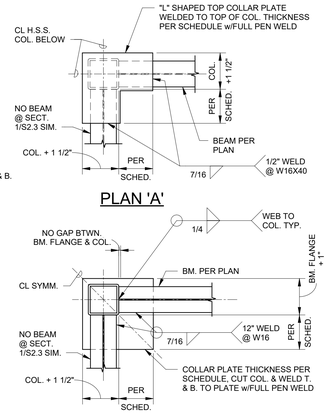
JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S2.2

12/22/2025 6:15:51 PM
C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt



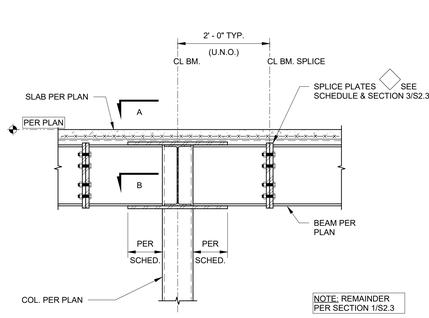
NOTES:
1.) BOLTS TO BE A325SC AT ALL END PLATES
2.) SECTION 1/S2.3 SIM. SAME AS SHOWN EXCEPT NO BEAM IN FOREGROUND OCCURS.

1 SECTION
3/4" = 1'-0"



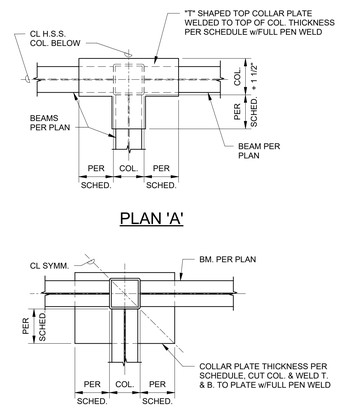
PLAN 'A'

PLAN 'B'



NOTES:
1.) BOLTS TO BE A325SC AT ALL END PLATES
2.) SECTION 2/S2.3 SIM. NO BEAM SPLICE OCCURS ON SHORT SIDE.

2 SECTION
3/4" = 1'-0"



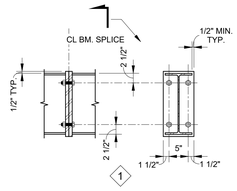
PLAN 'B'

COLLAR PLATE SCHEDULE

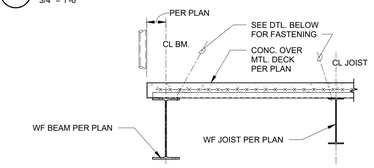
COLUMN SIZE	PLATE DIM.	PLATE THICKNESS
8 x 8 H.S.S.	9"	7/8"
6 x 6 H.S.S.	7"	5/8"
4 x 4 H.S.S.	6"	5/8"

SPLICE PLATE SCHEDULE

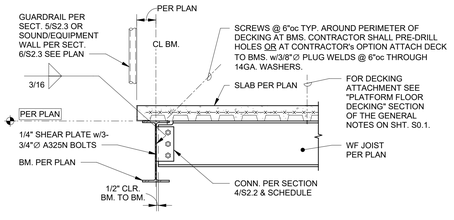
BEAM SIZE	PLATE SIZE (50ksi)	MARK
W14X34 W14X48	7/8" PLATE w/4-1 1/8"Ø A325SC (S" GA.)	1
W16X36 W16X40 W16X67	1 1/8" PLATE w/8-1 1/8"Ø A325SC (5"GA.)	2



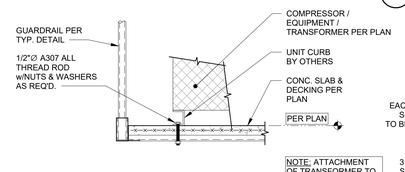
3 SECTION
3/4" = 1'-0"



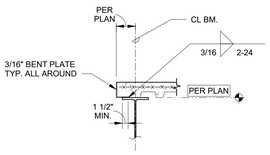
CONDITION JOIST PARALLEL TO JOIST



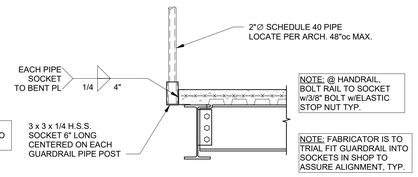
CONDITION JOIST PERPENDICULAR TO JOIST



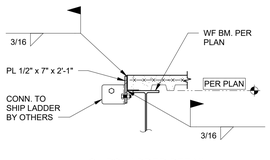
MECHANCIAL EQUIPMENT ANCHORAGE DETAIL



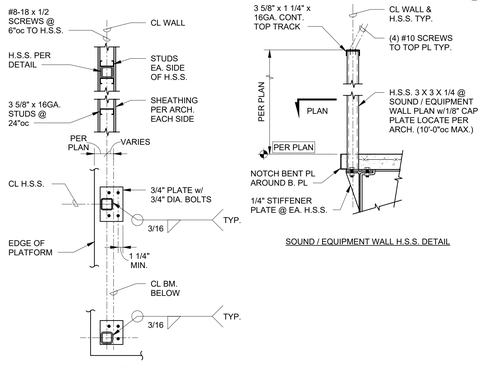
TYP. EDGE CONDITION



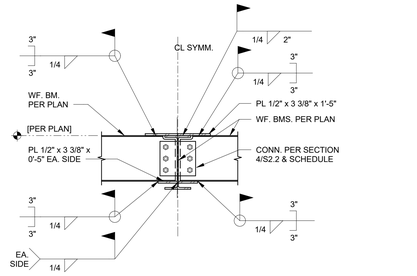
GUARDRAIL DETAIL

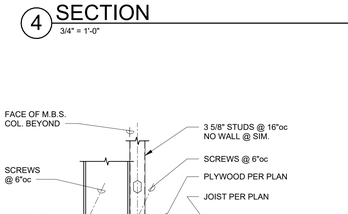


SHIPS LADDER DETAIL

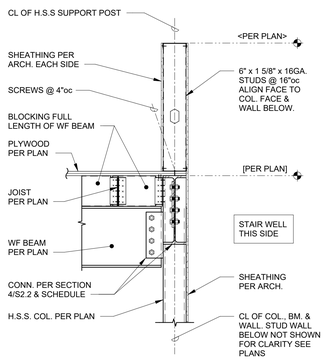


SOUND/EQUIPMENT WALL DETAILS
(LOCATE PER ARCH.)

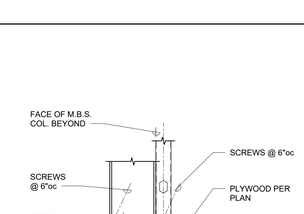




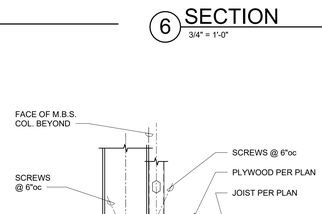
4 SECTION
3/4" = 1'-0"



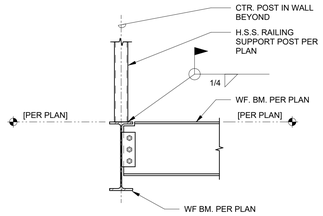
5 SECTION
3/4" = 1'-0"



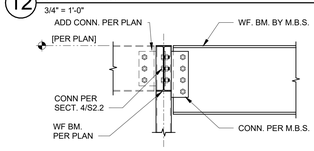
6 SECTION
3/4" = 1'-0"



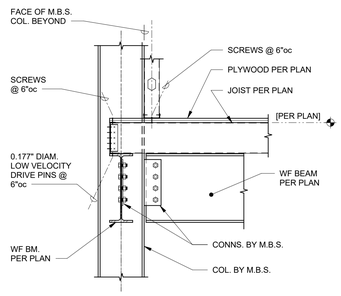
7 SECTION
3/4" = 1'-0"



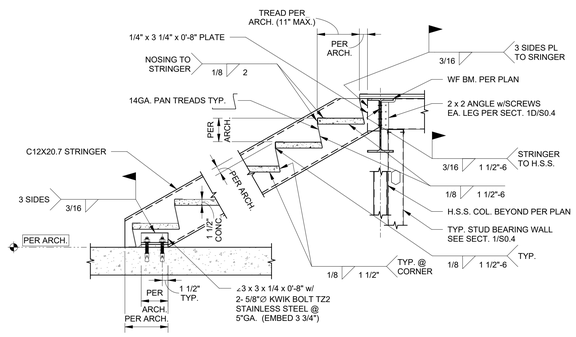
12 SECTION
3/4" = 1'-0"



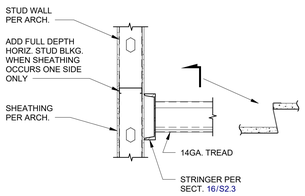
8 SECTION
3/4" = 1'-0"



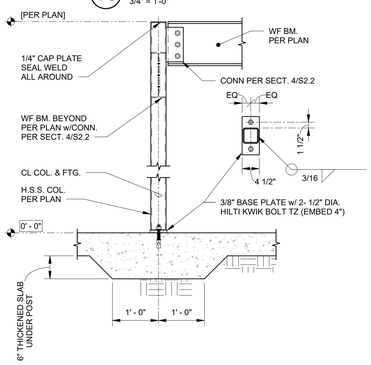
9 SECTION
3/4" = 1'-0"



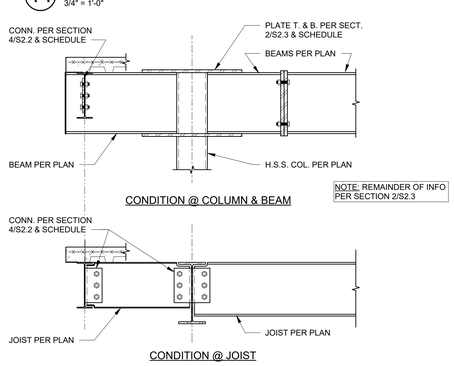
10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"



13 SECTION
3/4" = 1'-0"



14 SECTION
3/4" = 1'-0"

15 SECTION
3/4" = 1'-0"

16 SECTION
3/4" = 1'-0"

17 SECTION
3/4" = 1'-0"

18 SECTION
3/4" = 1'-0"

19 SECTION
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:52

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI JOSE L. PARADA NUMBER PE-2010035260 ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

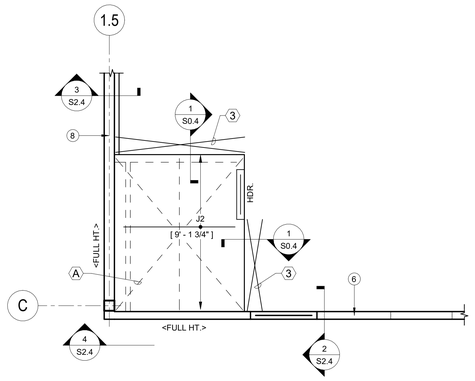
COSTCO WHOLESALE

COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

SHEET CONTENTS: PLATFORM SECTIONS

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S2.3

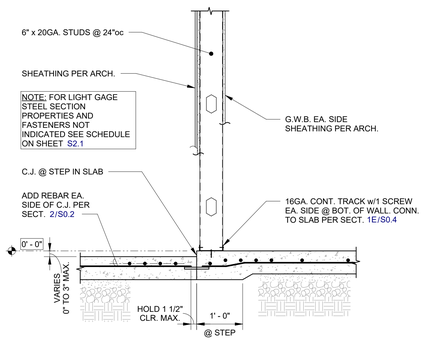
12/22/2025 6:15:53 PM C:\Users\lusim\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Lusim.rvt



1 TIRE CENTER RESTROOM CEILING FRAMING PLAN

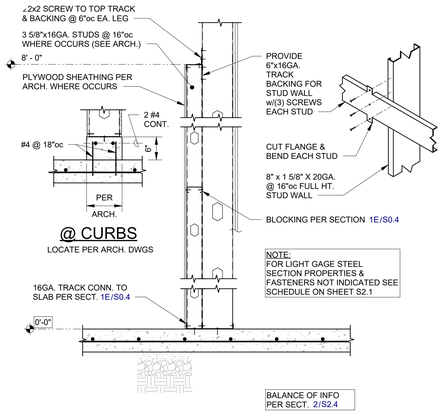
1/4" = 1'-0"

NOTES:
1. SEE NOTES AT OFFICE FRAMING SHEET S2.1.



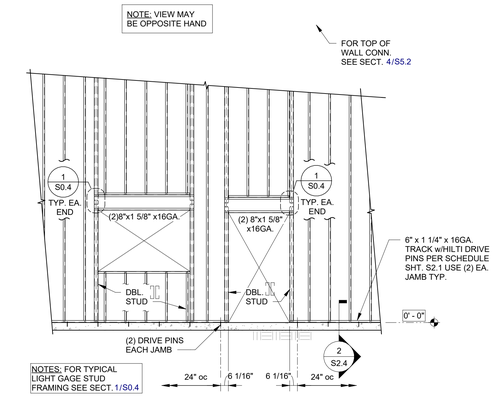
2 SECTION

3/4" = 1'-0"



3 SECTION

3/4" = 1'-0"



4 ELEVATION

1/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:52

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010043004
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

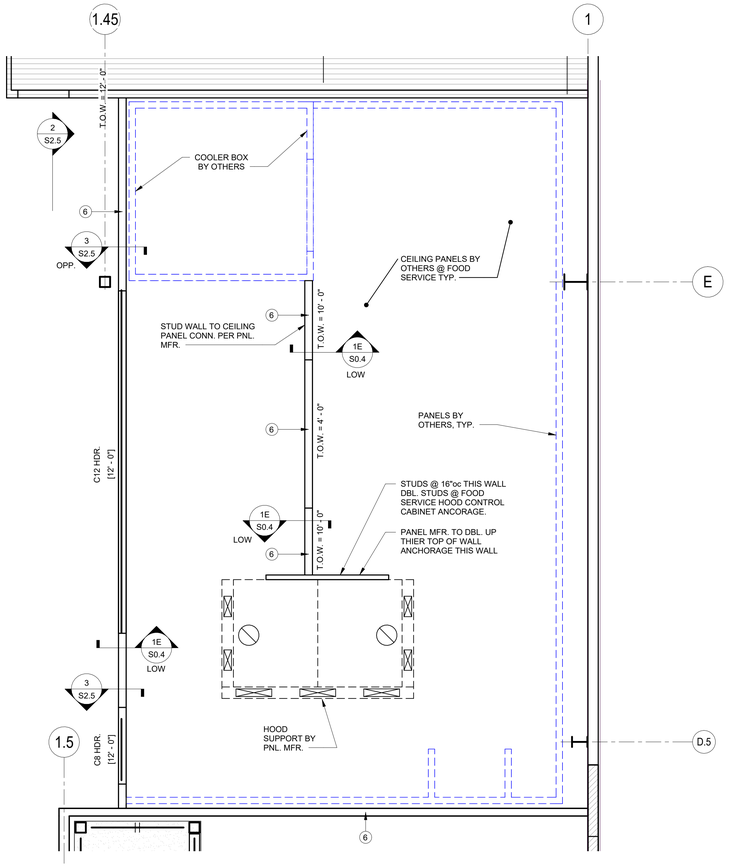
SHEET CONTENTS: T.C. RESTROOM CEILING FRAMING PLAN AND SECTIONS

COSTCO WHOLESALE

COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S2.4

12/22/2025 6:15:53 PM C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt

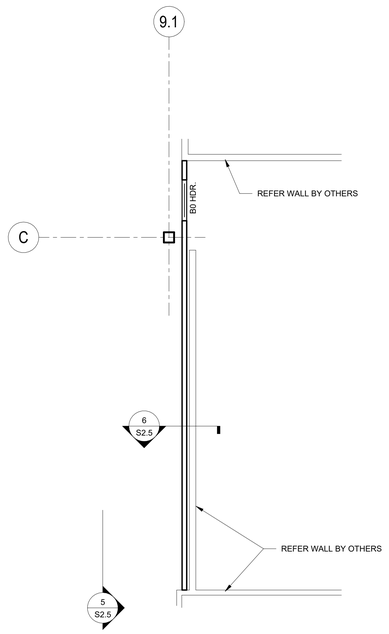


1 FOOD SERVICE FRAMING PLAN

1/4" = 1'-0"

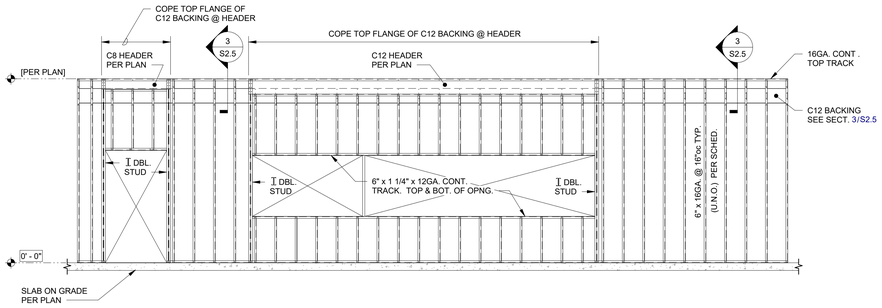
NOTES:

1.) SEE DETAIL 1/S0.4 FOR TYP. STUD FRAMING DTLS. (U.N.O.)
2.) TOP OF STEEL IS AT ELEVATION 12'-0" (U.N.O.)
3.) TYPICAL WALLS ARE 3 5/8" UNLESS NOTED THUS: ◯ SEE WALL STUD WIDTH SCHEDULE SHEET S2.1
3.) WHERE "HILTI" BRAND ADHESIVE ANCHORS ARE CALLED OUT DO NOT SUBSTITUTE OTHER BRAND ANCHORS WITHOUT WRITTEN APPROVAL OF E.N.W. NOTE: ONLY ANCHORS WITH CURRENT CODE APPROVED VALUES WILL BE CONSIDERED.
4.) CONTRACTOR TO VFY. LOCATION OF HOOD SUPPORTS w/HOOD MANUFACTURER.
5.) PIZZA HOOD WEIGHT = 1,000# MAX. PIZZA DUCT WEIGHT = 1,400# MAX. NOTIFY E.O.R. IF LOADS EXCEED THESE FIGURES.



4 MEAT PREP ROOM WALL FRAMING PLAN

1/4" = 1'-0"

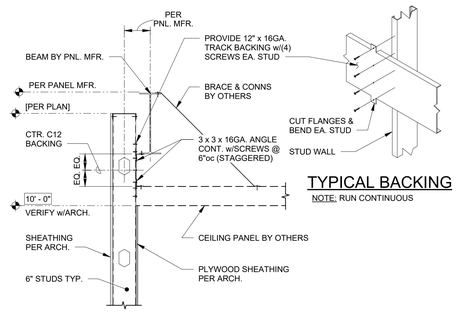


NOTES: FOR TYPICAL LIGHT GAGE STUD FRAMING SEE SECT. 1/S0.4

NOTE: VIEW MAY BE OPPOSITE HAND

2 ELEVATION

1/4" = 1'-0"

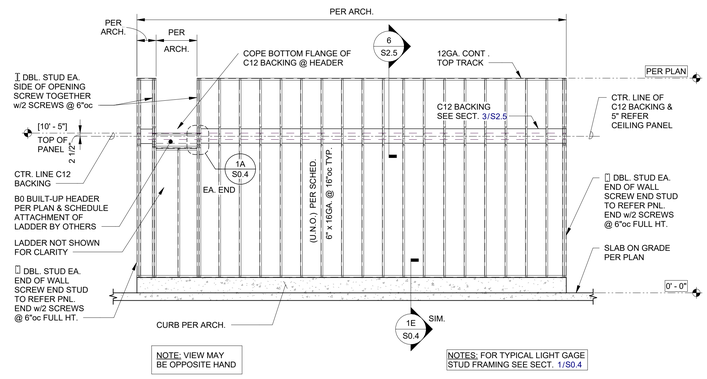


TYPICAL BACKING

NOTE: RUN CONTINUOUS

3 SECTION

3/4" = 1'-0"

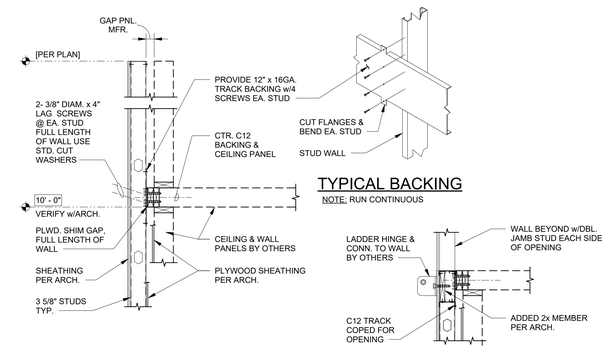


NOTE: VIEW MAY BE OPPOSITE HAND

NOTES: FOR TYPICAL LIGHT GAGE STUD FRAMING SEE SECT. 1/S0.4

5 ELEVATION

1/4" = 1'-0"



TYPICAL BACKING

NOTE: RUN CONTINUOUS

CONDITION @ LADDER

6 SECTION

3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:52

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010024504
ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

SHEET CONTENTS: FOOD SERVICE FRAMING & MEAT PREP WALL PLANS, ELEVATIONS AND SECTIONS

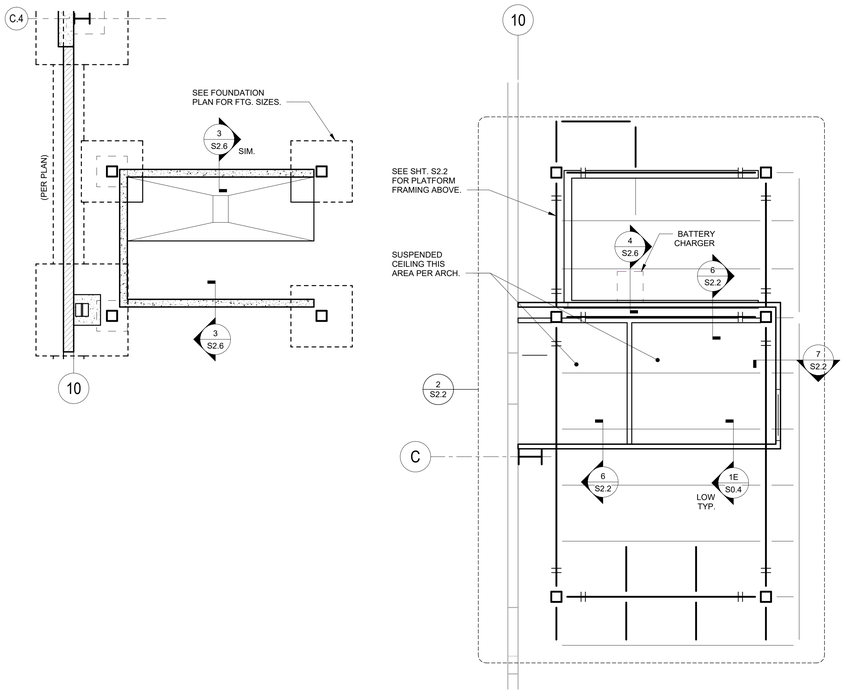
COSTCO WHOLESALE

COSTCO LEE'S SUMMIT

NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S2.5

C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:54 PM



FOUNDATION PLAN

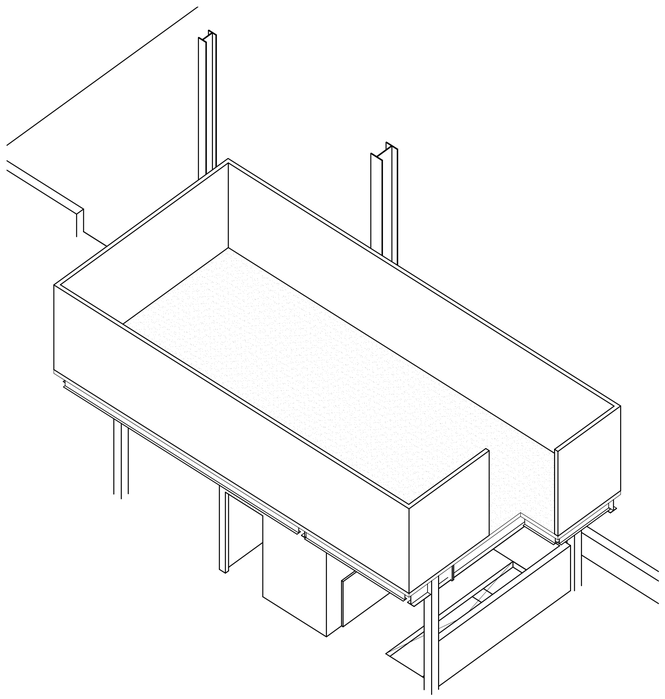
CEILING FRAMING PLAN

NOTE: SEE APPLICABLE SCHEDULES SHT. S2.1 FOR LIGHT GAGE PARTS AND BEAM SIZES.

1 RECEIVING RESTROOM FRAMING PLAN

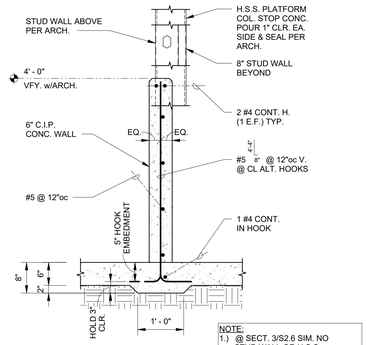
1/4" = 1'-0"

NOTES:
1. SEE NOTES AT OFFICE FRAMING.



5 RECEIVING RESTROOM PERSPECTIVE

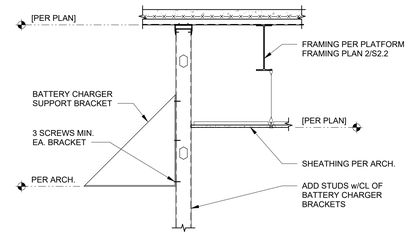
NOTES:
1. PLATFORM FRAMING NOT SHOWN FOR CLARITY.



NOTE:
1.) @ SECT. 3/S2.6 SIM. NO STUD WALL OR H.S.S. PLATFORM COLUMN OCCURS.
2.) SECT. MAY BE OPPOSITE HAND.

3 SECTION

3/4" = 1'-0"



4 SECTION

3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:52

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

SHEET CONTENTS: RECEIVING RESTROOM AND MECHANICAL ROOM FRAMING PLAN AND DETAILS

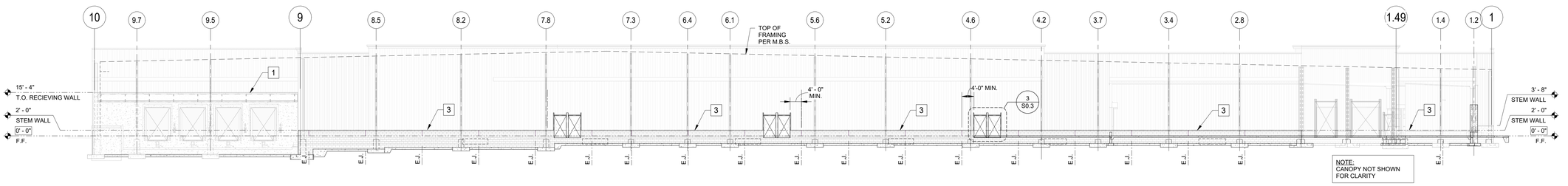
COSTCO WHOLESALE

COSTCO LEE'S SUMMIT

NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

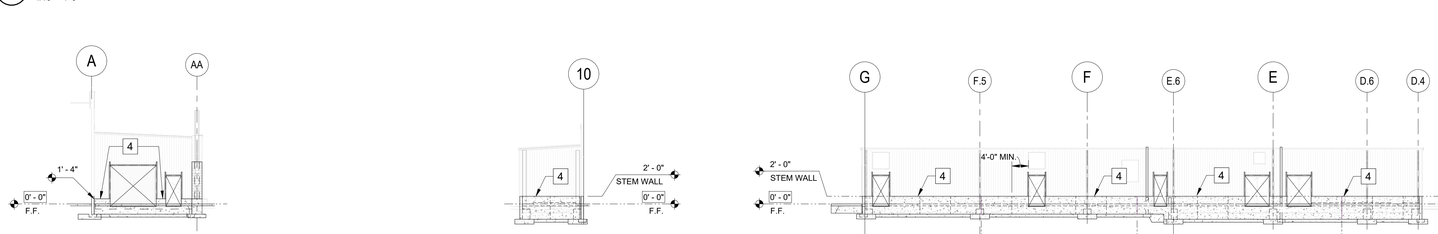
JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S2.6

12/22/2025 6:15:54 PM C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt

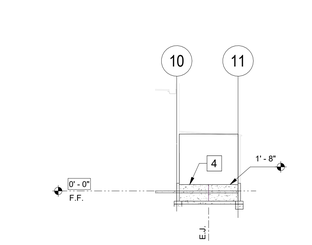


NOTE:
CANOPY NOT SHOWN FOR CLARITY

1 SOUTH ELEVATION
1/16" = 1'-0"



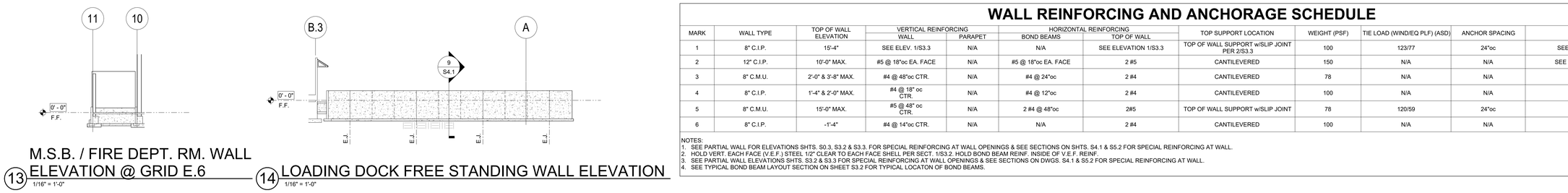
2 EAST ELEVATION
1/16" = 1'-0"



3 DIAGONAL ENTRY
1/16" = 1'-0"

C.M.U. WALL NOTE:
1. C.M.U. EXPANSION JOINTS SHOWN MAY BE SLIGHTLY RELOCATED SO AS TO MODULE BUT MUST AVOID ALL WALL OPENINGS BY AT LEAST 4'-0". FOR MASONRY UP TO 3'-4" SPACING IS 20'-0"oc. FOR WALLS HIGHER THAN 3'-4" MAXIMUM SPACING IS 40'-0"oc EXCEPT. WHERE NOTED OTHERWISE. E.J.'s TO EXTEND FROM ELEV. 0'-0" UP. VERIFY ALL REVISIONS WITH ARCH.
2. VIEW IS FROM EXTERIOR.
3. SEE S3.2 FOR TYPICAL C.M.U. WALL DETAILS.
4. SEE S3.1 FOR WALL REINFORCING SCHEDULES. X DENOTES WALL TYPE PER SCHEDULE.

CONCRETE WALL NOTE:
1. EXPANSION JOINTS (E.J.) MAY BE SLIGHTLY RELOCATED BUT MUST AVOID ALL WALL OPENINGS BY AT LEAST 4'-0". MAXIMUM SPACING IS 24'-0"oc EXCEPT WHERE NOTED OTHERWISE. E.J.'s TO EXTEND FROM FOOTING UP. VERIFY ALL REVISIONS WITH ARCH.
2. EXPANSION JOINTS SHOWN THUS: ——— CONTROL JOINTS SHOWN THUS: - - - - -
3. SEE S3.2 FOR TYP. CONCRETE WALL DETAILS.
4. SEE S3.1 FOR WALL REINFORCING SCHEDULES. X DENOTES WALL TYPE PER SCHEDULE.



4 NORTH ELEVATION
1/16" = 1'-0"

5 WEST ELEVATION
1/16" = 1'-0"

6 VESTIBULE EAST ELEVATION
1/16" = 1'-0"

7 VESTIBULE SOUTH ELEVATION
1/16" = 1'-0"

8 VESTIBULE WEST ELEVATON
1/16" = 1'-0"

9 M.S.B. / FIRE DEPT RM. SOUTH ELEV.
1/16" = 1'-0"

10 M.S.B. FIRE DEPT. RM. EAST ELEV.
1/16" = 1'-0"

11 M.S.B. / FIRE DEPT. RM. WALL ELEVATION BETWEEN GRIDS E.6 & F
1/16" = 1'-0"

12 M.S.B. / FIRE DEPT. RM. WALL ELEVATION @ GRID E
1/16" = 1'-0"

13 M.S.B. / FIRE DEPT. RM. WALL ELEVATION @ GRID E.6
1/16" = 1'-0"

14 LOADING DOCK FREE STANDING WALL ELEVATION
1/16" = 1'-0"

WALL REINFORCING AND ANCHORAGE SCHEDULE

MARK	WALL TYPE	TOP OF WALL ELEVATION	VERTICAL REINFORCING		HORIZONTAL REINFORCING		TOP SUPPORT LOCATION	WEIGHT (PSF)	TIE LOAD (WIND/EQ PLF) (ASD)	ANCHOR SPACING	REMARKS
			WALL	PARAPET	BOND BEAMS	TOP OF WALL					
1	8" C.I.P.	15'-4"	SEE ELEV. 1/S3.3	N/A	N/A	SEE ELEVATION 1/S3.3	TOP OF WALL SUPPORT w/SLIP JOINT PER 2/S3.3	100	123/77	24"oc	SEE ELEV. 1/S3.3, & SECT. 2/S3.3
2	12" C.I.P.	10'-0" MAX.	#5 @ 18"oc EA. FACE	N/A	#5 @ 18"oc EA. FACE	2 #5	CANTILEVERED	150	N/A	N/A	SEE ELEV. 10/S3.3, & SECT.11/S3.3
3	8" C.M.U.	2'-0" & 3'-8" MAX.	#4 @ 48"oc CTR.	N/A	#4 @ 24"oc	2 #4	CANTILEVERED	78	N/A	N/A	---
4	8" C.I.P.	1'-4" & 2'-0" MAX.	#4 @ 18" oc CTR.	N/A	#4 @ 12"oc	2 #4	CANTILEVERED	100	N/A	N/A	
5	8" C.M.U.	15'-0" MAX.	#5 @ 48" oc CTR.	N/A	2 #4 @ 48"oc	2#5	TOP OF WALL SUPPORT w/SLIP JOINT	78	120/59	24"oc	---
6	8" C.I.P.	-1'-4"	#4 @ 14"oc CTR.	N/A	N/A	2 #4	CANTILEVERED	100	N/A	N/A	---

NOTES:
1. SEE PARTIAL WALL FOR ELEVATIONS SHTS. S0.3, S3.2 & S3.3. FOR SPECIAL REINFORCING AT WALL OPENINGS & SEE SECTIONS ON SHTS. S4.1 & S5.2 FOR SPECIAL REINFORCING AT WALL.
2. HOLD VERT. EACH FACE (V.E.F.) STEEL 1/2" CLEAR TO EACH FACE SHELL PER SECT. 1/S3.2. HOLD BOND BEAM REINF. INSIDE OF V.E.F. REINF.
3. SEE PARTIAL WALL ELEVATIONS SHTS. S3.2 & S3.3 FOR SPECIAL REINFORCING AT WALL OPENINGS & SEE SECTIONS ON DWGS. S4.1 & S5.2 FOR SPECIAL REINFORCING AT WALL.
4. SEE TYPICAL BOND BEAM LAYOUT SECTION ON SHEET S3.2 FOR TYPICAL LOCATON OF BOND BEAMS.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:52

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010024264
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

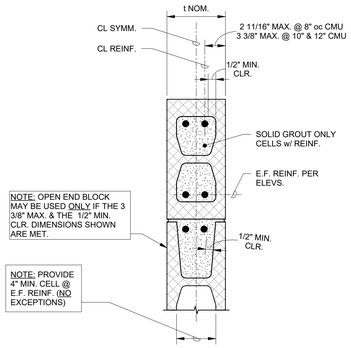
ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036-4698
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

COSTCO WHOLESALE
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

SHEET CONTENTS: BUILDING ELEVATIONS

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S3.1

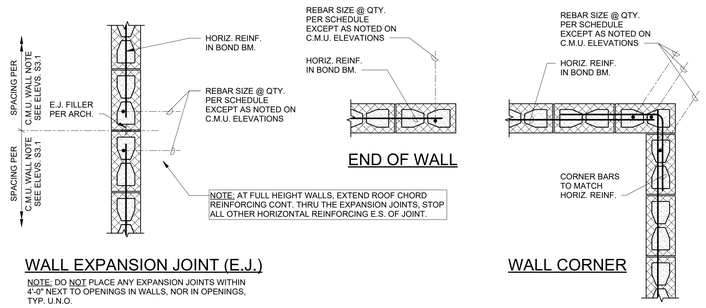
C:\Users\lluism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:57 PM



(V.E.F. REINFORCING)

NOTE:
1. USE 2 BARS MAX. PER CELL START w/ BARS @ 1st FULL CELL NEAREST WALL OPENING.

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



WALL EXPANSION JOINT (E.J.)

NOTE: DO NOT PLACE ANY EXPANSION JOINTS WITHIN 4'-0" NEXT TO OPENINGS IN WALLS, NOR IN OPENINGS, TYP. U.N.O.

WALL CORNER

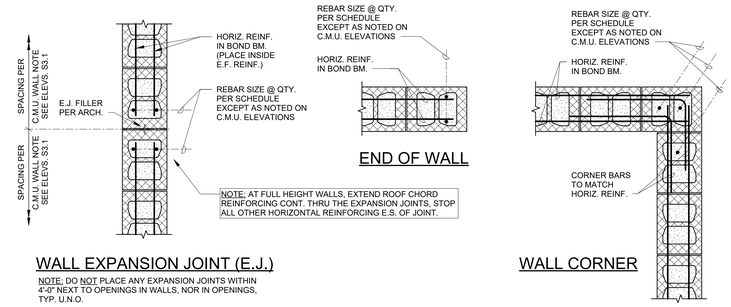
2 8" TYPICAL C.M.U. PLAN DETAILS
3/4" = 1'-0"

MASONRY REINFORCING SPLICE SCHEDULE
(8" MASONRY)

BAR SIZE	REINF. CL.	REINF. E.F.
#3	12"	15"
#4	15"	27"
#5	23"	45"
#6	43"	54"
#7	60"	63"

CONCRETE REINFORCING SPLICE SCHEDULE

BAR SIZE	3000 PSI LAP	4000 PSI LAP
#3	20"	17"
#4	26"	23"
#5	33"	28"
#6	39"	34"
#7	57"	49"
#8	65"	56"
#9	73"	63"
#10	82"	71"
#11	91"	79"

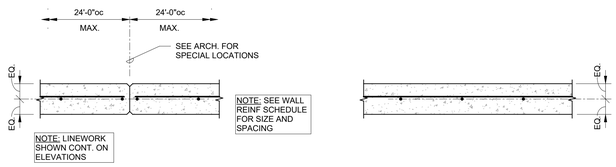


WALL EXPANSION JOINT (E.J.)

NOTE: DO NOT PLACE ANY EXPANSION JOINTS WITHIN 4'-0" NEXT TO OPENINGS IN WALLS, NOR IN OPENINGS, TYP. U.N.O.

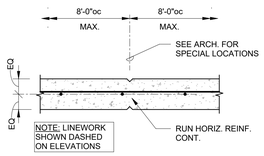
WALL CORNER

3 10" & 12" C.MU TYPICAL PLAN DETAILS
3/4" = 1'-0"

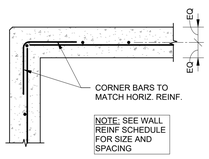


TYPICAL WALL EXPANSION JOINT

TYPICAL WALL REINF. PLACEMENT

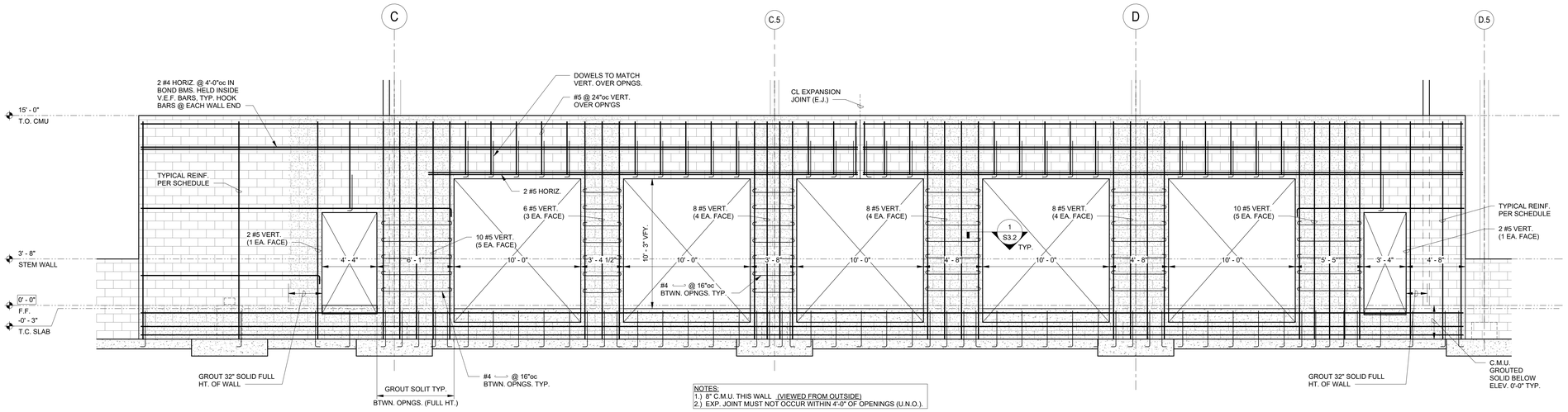


TYPICAL WALL CONTROL JOINT



TYPICAL WALL CORNER

4 TYPICAL 8" C.I.P. TYPICAL PLAN DETAILS
3/4" = 1'-0"



NOTES:
1.) 8" C.M.U. THIS WALL (VIEWED FROM OUTSIDE)
2.) EXP. JOINT MUST NOT OCCUR WITHIN 4'-0" OF OPENINGS (U.N.O.).

5 TIRE CENTER WALL ELEVATION
1/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEWED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:53

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT SUBMIT FOR BID SUBMIT FOR CONSTRUCTION	12.23.25

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI JOSE L. PARADA NUMBER PE-2010043004 PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

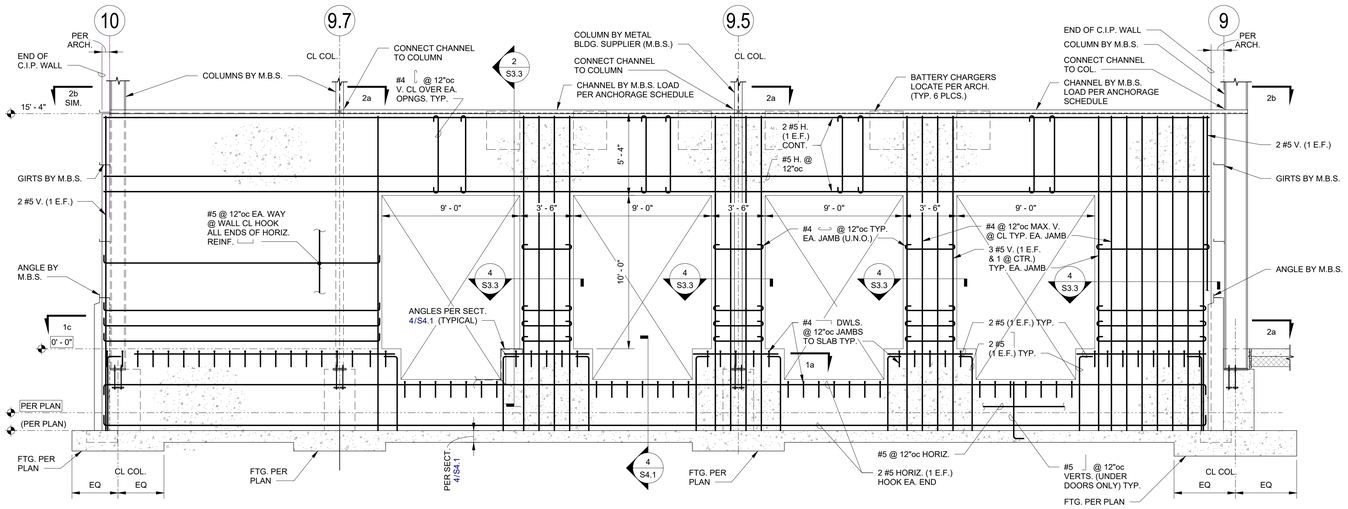
ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

COSTCO WHOLESALE
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

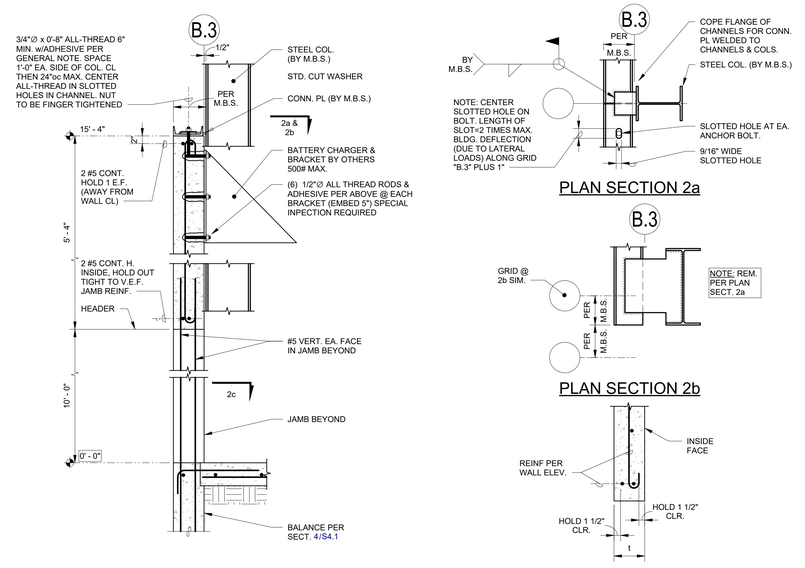
SHEET CONTENTS: PARTIAL WALL ELEVATIONS AND DETAILS

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S3.2

C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:58 PM



1 GRID C.I.P. LOADING DOCK WALL
1/4" = 1'-0"

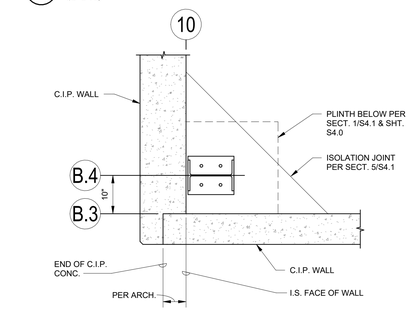


2 SECTION
3/4" = 1'-0"

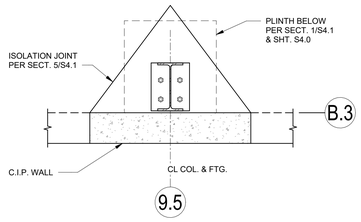
PLAN SECTION 2a

PLAN SECTION 2b

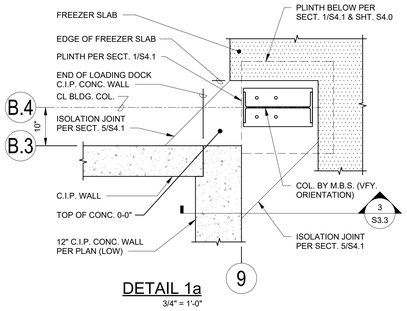
PLAN SECTION 2c



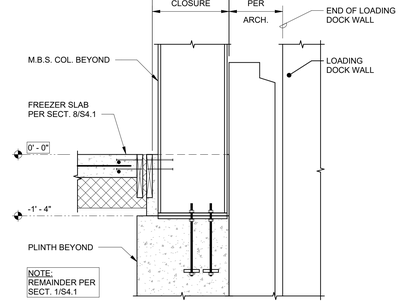
DETAIL 1c
3/4" = 1'-0"



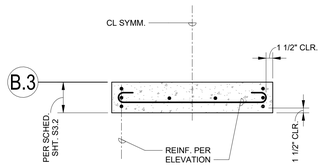
DETAIL 1b
3/4" = 1'-0"



DETAIL 1a
3/4" = 1'-0"

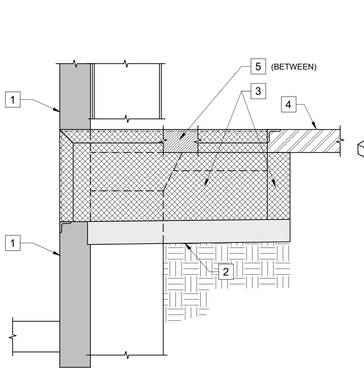


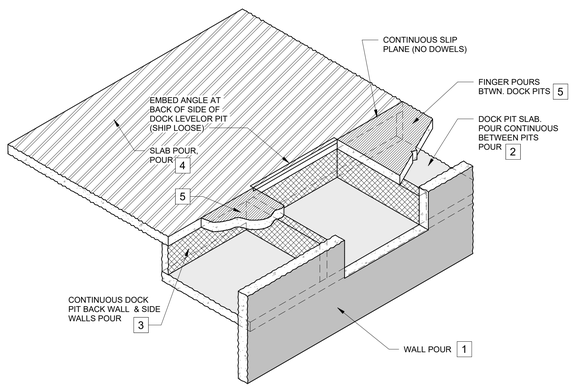
3 SECTION
3/4" = 1'-0"



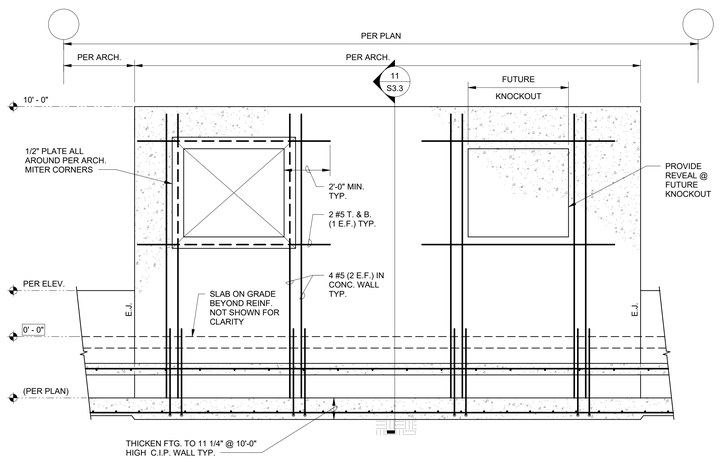
TYPICAL JAMB REINF.

4 SECTION
3/4" = 1'-0"



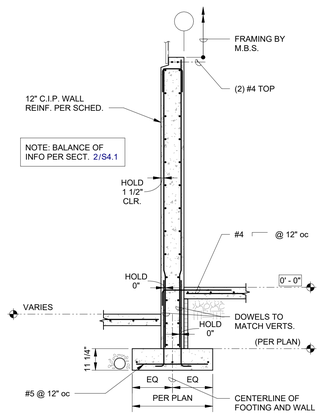


9 SUGGESTED POUR SEQUENCE OF DOCK LEVELER PITS
3/4" = 1'-0"



COMPACTOR BALER WALL

10 ELEVATION
3/8" = 1'-0"



11 SECTION
3/8" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:53

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI JOSE L. PARADA NUMBER PE-2010043500 PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

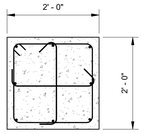
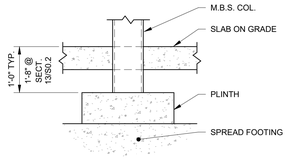
STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

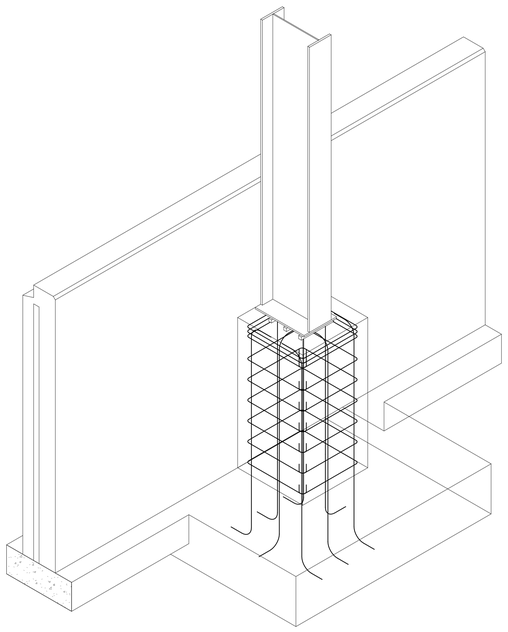
COSTCO WHOLESALE
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

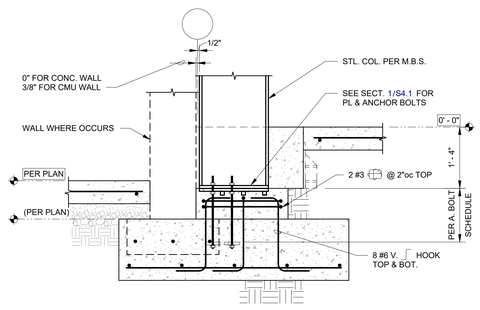
SHEET CONTENTS: PARTIAL WALL ELEVATIONS AND DETAILS

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S3.3

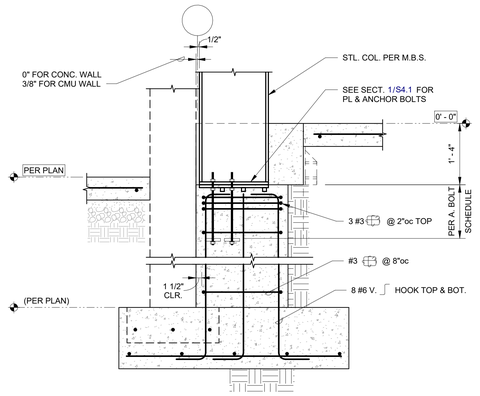
C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:15:59 PM

MARK	PLAN VIEW	SCHEMATIC ELEVATION (INTERIOR PLINTH)	TYP. DETAIL (PERIMETER PLINTH)
PL1			





CONDITION @ SHALLOW FOOTING



CONDITION @ DEEP FOOTING

1 PLINTH INFORMATION
3/4" = 1'-0"

FOOTING SCHEDULE — BRG = 3 ksf

MARK	SIZE	TOP EACH WAY	BOTTOM EACH WAY	COUNT	COMMENTS
F4.0	4' - 0"x4' - 0"x1' - 2"	(3) #4	(4) #5	10	
F5.0	5' - 0"x5' - 0"x1' - 3"	(3) #4	(6) #5	8	
F6.0	6' - 0"x6' - 0"x1' - 4"	(4) #4	(5) #6	62	
F7.0	7' - 0"x7' - 0"x1' - 6"	(4) #5	(7) #6	1	
F8.0	8' - 0"x8' - 0"x1' - 8"	(4) #5	(9) #6	15	
F9.0	9' - 0"x9' - 0"x1' - 11"	(5) #5	(8) #7	29	
F9.5	9' - 6"x9' - 6"x2' - 0"	(6) #5	(9) #7	6	
F10.5	10' - 6"x10' - 6"x2' - 2"	(6) #5	(11) #7	1	
FA	0' - 0"x0' - 0"x<varies>	<varies>		9	<varies>

PLINTH SCHEDULE

MARK	SIZE	COUNT
PL1	24" x 24"	86

NOTE: PL2 IS FOR THE WARM WEATHER BLDG. CONFIGURATION AND MAY NOT APPEAR ON PLAN.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:53

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI · JOSE L. PARADA · NUMBER PE-2010043004 · PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

COSTCO WHOLESALE

COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

SHEET CONTENTS: PLINTH SECTIONS, PLINTH SCHEDULE AND FOOTING SCHEDULE

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S4.0

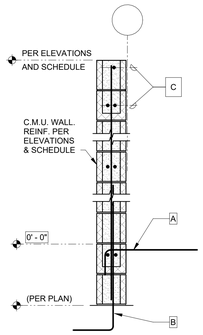
12/22/2025 6:16:00 PM C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEWED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:53

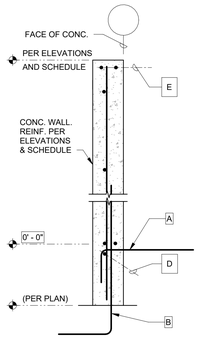
NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

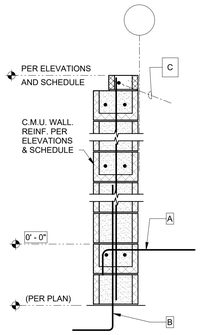
TYPICAL EXTERIOR WALL DETAILS



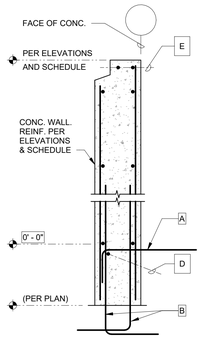
8" C.M.U. WALL



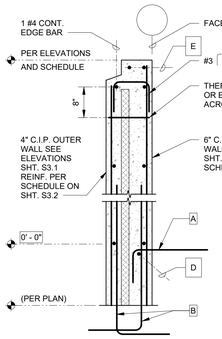
8" CONC.WALL



10"-12" C.M.U. WALL

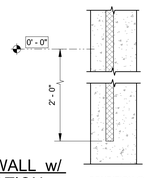


10"-12" CONC. WALL



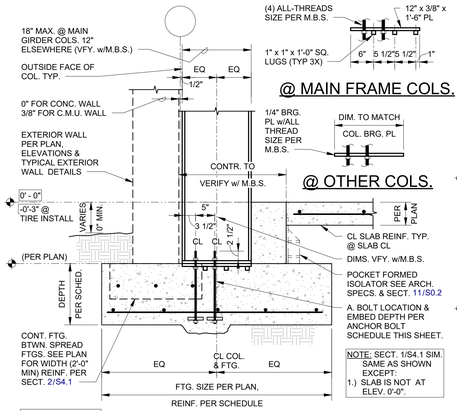
10"-12" CONC. WALL w/ RIGID INSULATION

VFY. INSULATION PER ARCH. DWGS.



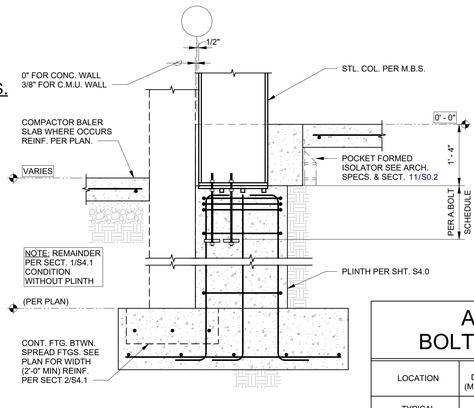
CONDITION @ FTGS DEEPER THAN -2'-0"

A	SLAB TO WALL HOOK #4 3'-6" @ 32" oc
B	DOWELS TO MATCH VERTICAL REINF.
C	#5 CONTINUOUS
D	#4 CONTINUOUS
E	(2) #4 CONTINUOUS



CONDITION W/O PLINTH

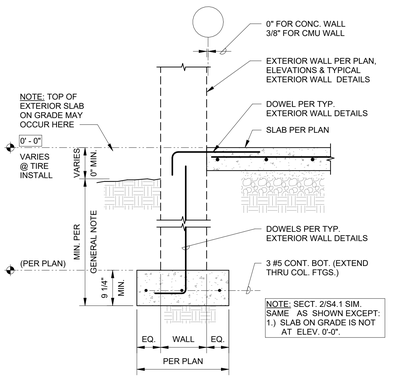
NOTE: USE WHEN (TOP OF FTG.) IS -1'-4" WHEN (TOP OF FTG.) IS BELOW -1'-4" USE DETAIL AT RIGHT.



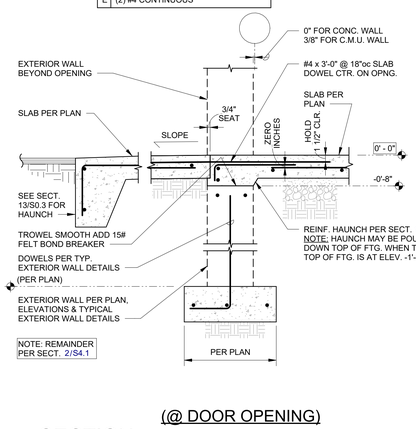
CONDITION W PLINTH

ANCHOR BOLT SCHEDULE

LOCATION	BOLT DIAMETER (MIN. INCHES)	EMBEDMENT (INCHES)	WASHER PLATE
TYPICAL	1" MIN. (SEE M.B.S.)	14"	4"x4"x3/4"
F-7.4, X-X, X-X, X-X, X-X, X.X...	1" MIN. (SEE M.B.S.)	24"	4"x4"x3/4"

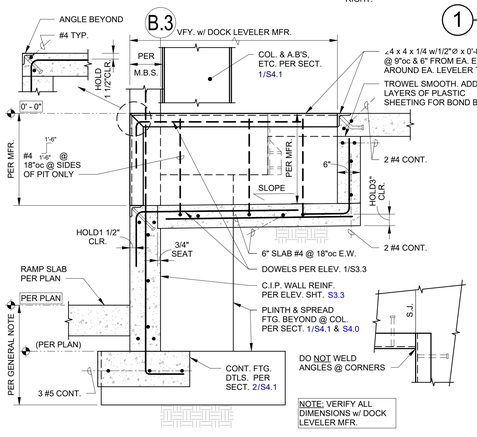


2 SECTION
3/4" = 1'-0"

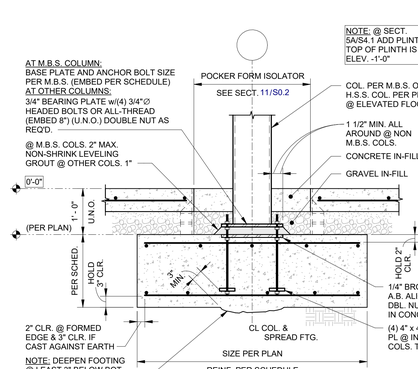


3 SECTION
3/4" = 1'-0"

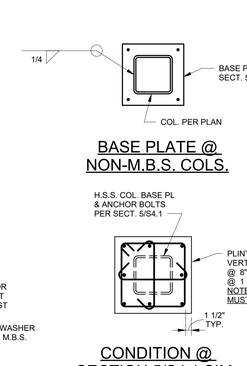
(@ DOOR OPENING)



4 SECTION
3/4" = 1'-0"

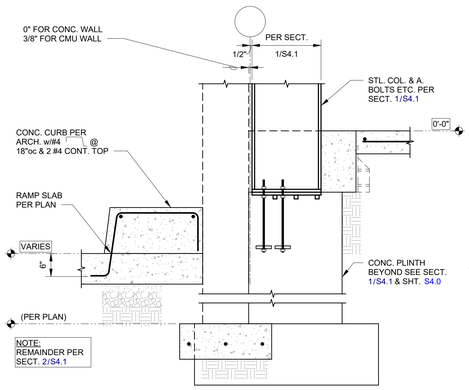


5 SECTION
3/4" = 1'-0"

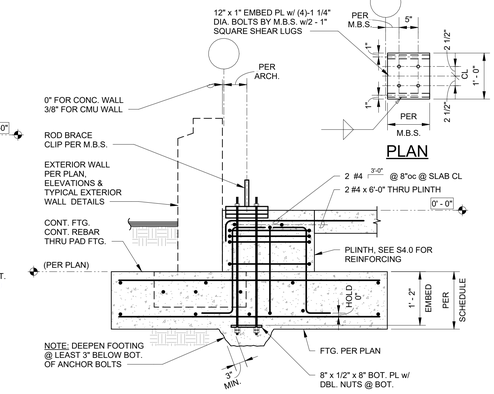


BASE PLATE @ NON-M.B.S. COLS.

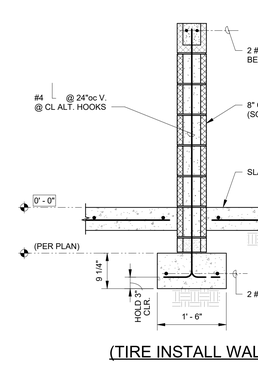
CONDITION @ SECTION 5/S4.1 SIM.



6 SECTION
3/4" = 1'-0"

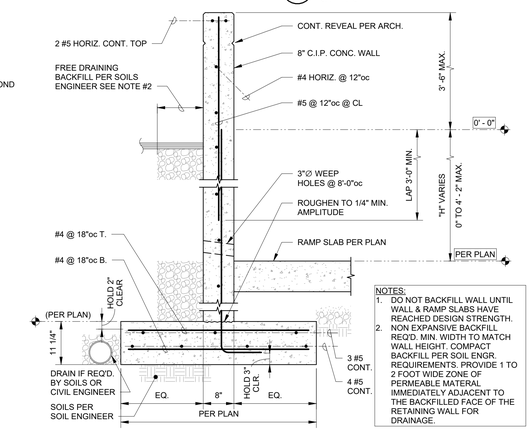


7 SECTION
3/4" = 1'-0"

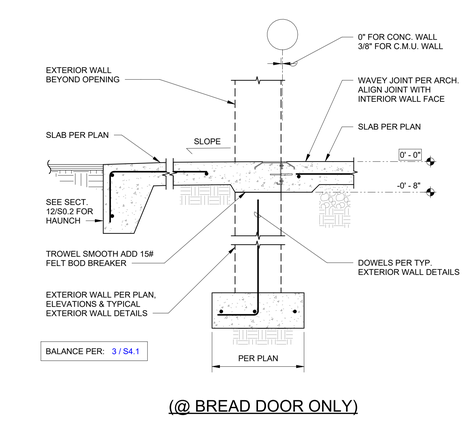


(TIRE INSTALL WALL)

8 SECTION
3/4" = 1'-0"

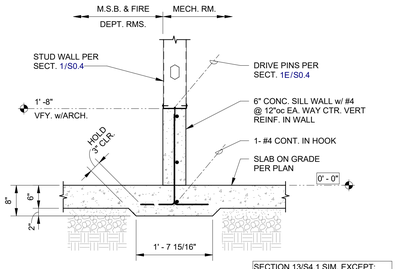


9 SECTION
3/4" = 1'-0"



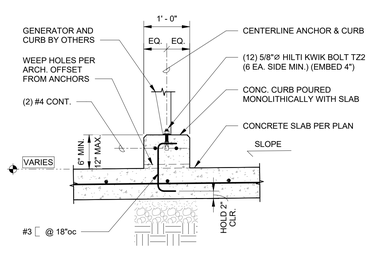
(@ BREAD DOOR ONLY)

10 SECTION
3/4" = 1'-0"



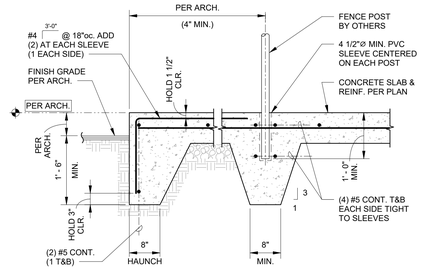
SILL WALL BTWN. FIRE DEPT. ROOM & MECHANICAL ROOM

13 SECTION
3/4" = 1'-0"



EXTERIOR GENERATOR CURB

14 SECTION
3/4" = 1'-0"



EXTERIOR GENERATOR SLAB EDGE

15 SECTION
3/4" = 1'-0"

SHEET CONTENTS:	FOUNDATION SECTIONS

COSTCO WHOLESALE

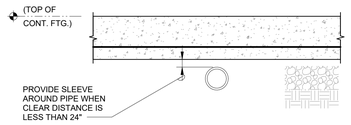
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

ENW
STRUCTURAL ENGINEERS
Engineers Northwest Inc. P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S4.1

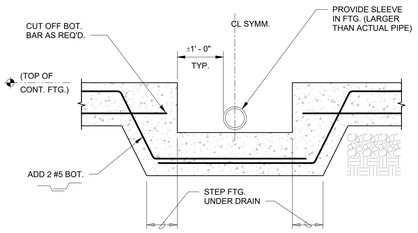
STATE OF MISSOURI
JOSE L. PARADA
NUMBER PE-2010034260
PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt
12/22/2025 6:16:01 PM



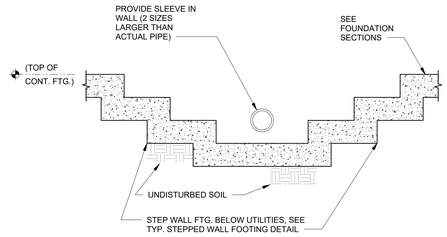
CONDITION PIPE BELOW FOOTING

1 SECTION
3/4" = 1'-0"



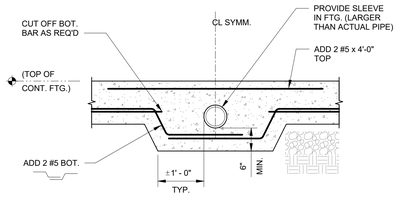
ALTERNATE STEP FOOTING

2 SECTION
3/4" = 1'-0"



STEP FOOTING DETAIL @ UTILITIES

3 SECTION
3/4" = 1'-0"



ALTERNATE THICKENED FOOTING

4 SECTION
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:53

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI
JOSE L. PARADA
NUMBER
PE-2010030744
PROFESSIONAL ENGINEER

DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

SHEET CONTENTS: FOUNDATION SECTIONS

COSTCO WHOLESALE

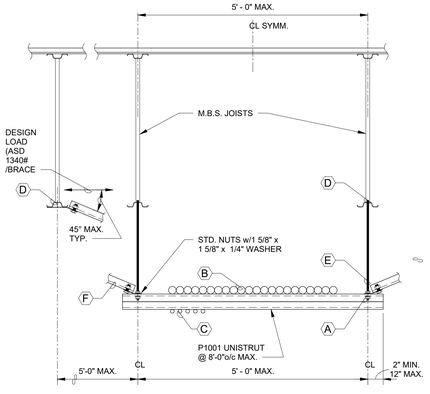
COSTCO LEE'S SUMMIT

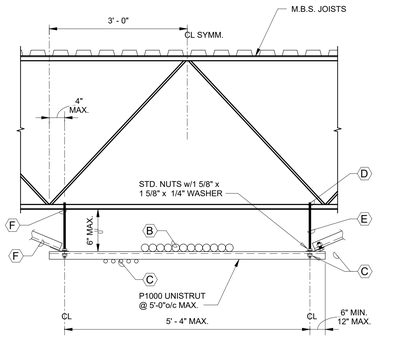
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S4.2

12/22/2025 6:16:02 PM C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:53



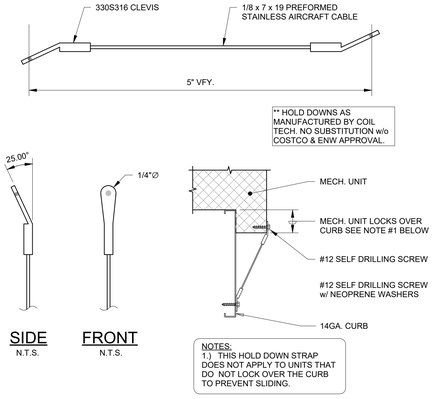


1 SECTION
3/4" = 1'-0"

REFRIGERATION LINE SUPPORT SCHEDULE

MARK	SIZE	NOTES
A	BOTTOM CONNECTION TO UNISTRUT	STANDARD THICKNESS CHANNEL NUT w/ ALL-THREAD EXTEND 1/4" PAST NUT. FOR BOTTOM CONN.
B	REFRIGERATION LINES	MAXIMUM OF 22 REF. LINES @ 92 P.L.F. MAX. LOAD PARALLEL TO JOISTS. & 13 REF. LINES @ 70 P.L.F. MAX. LOAD PREP. TO JOISTS. SECURING REFRIGERATION PIPING TO THE UNISTRUTS IS BY OTHERS.
C	ELECTRICAL CONDUIT	ATTACHED ELECTRICAL CONDUIT IS NOT TO EXCEED 30 P.L.F. PARALLEL TO JOIST & 19 P.L.F. PERPENDICULAR TO JOIST
D *	CONNECTION TO JOISTS	XP35 SAMMY BOLT @ TRUSS PURLING. BOLT THRU DBL. ANGLE @ O.W.S.J.
E	ALL-THREAD HANGER RODS	3/8"ø A36 ALL-THREAD (TYP. U.N.O.) LOAD TO JOIST = 250#ROD. @ 5'-0" oc AT REF. LINES PARALLEL TO JOIST. & 250#ROD @ 5'-0"oc AT REF. LINES PERP. TO JOIST. HANGER ROD MUST OCCUR WITHIN 4" OF THE JOIST BOTTOM CHORD PANEL POINTS - NO EXCEPTIONS.
F	P1000 UNISTRUT BRACES	(IN PAIRS) w/ P1843 ADJUSTABLE HINGE CONNS. EACH END. HINGE CONN. TO BRACE USE STD. 1/2"ø - 13 STD. CHANNEL NUT & HEX.-HEAD CAP SCREW. TORQUE TO 50 FT.-LBS. SPACE BRACES @ 36'-0" oc MAX. ALONG JOISTS. BRACES MUST BE PLACED PERPENDICULAR TO JOISTS (90°) BRACES TO OCCUR WITHIN 4" OF BOTTOM CHORD PANEL POINTS. USE MARK (D) FOR BRACE TO HINGE.

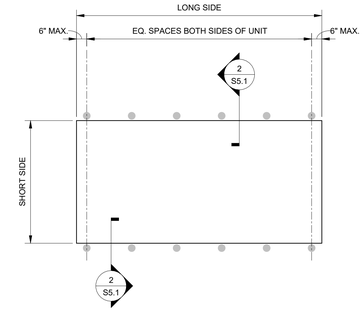
NOTE:
1.) PROVIDE BRACES PARALLEL TO JOIST IN OPPOSING PAIRS. LOCATED BRACES AT EACH BRACE THAT IS PERPENDICULAR TO JOISTS.
2.) THE INSTALLING CONTRACTOR SHALL SUBMIT SEISMIC BRACE ASSEMBLY COMPONENT SELECTIONS TO THE ENGINEER OF RECORD FOR REVIEW (AT LEAST 14 DAYS) PRIOR TO PURCHASE OR INSTALLATION.
3.) COMPONENT SUBSTITUTION OF NUSIG-LISTED, OSHPD PRE APPROVED SYSTEMS FROM BADGER INDUSTRIES OF ALAMO, CA, WILL BE CONSIDERED IF SUMITTED PER NOTE #2 ABOVE.
4.) TORQUE ALL CONNECTIONS TO UNISTRUT & JOISTS TO 50FT. LBS.



SIDE N.T.S. FRONT N.T.S.

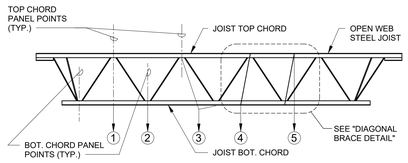
NOTES:
1.) THIS HOLD DOWN STRAP DOES NOT APPLY TO UNITS THAT DO NOT LOCK OVER THE CURB TO PREVENT SLIDING.

2 SECTION
3/4" = 1'-0"



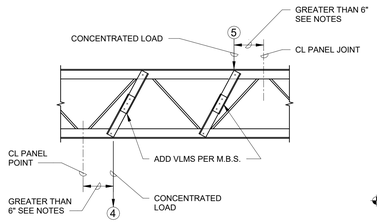
TYPICAL PLAN
FOR MECHANICAL UNITS

3 SECTION
3/4" = 1'-0"



① HANG WITHIN 6" OF ANY UPPER PANEL POINT FOR "K" SERIES JOIST.
② HANG WITHIN 6" OF ANY LOWER PANEL POINT FOR "K" SERIES JOIST.
③ TRAPEZE BETWEEN ANY PANEL POINTS.
④ ADD AN ANGLE E.S. TO STIFFEN THE BOTTOM CHORD SEE DIAGONAL BRACE DETAIL.
⑤ ADD AN ANGLE E.S. TO STIFFEN THE TOP CHORD SEE DIAGONAL BRACE DETAIL.
NOTES:
1.) DO NOT CUT OR DRILL ANY JOIST MEMBER.
2.) THIS DETAIL IS APPLICABLE TO SUPPORTING MECH. EQUIPMENT, SPRINKLER PIPES, ETC.
3.) JOIST MANUFACTURER TO ACCOUNT FOR ABOVE LOADING ON JOIST DESIGN.

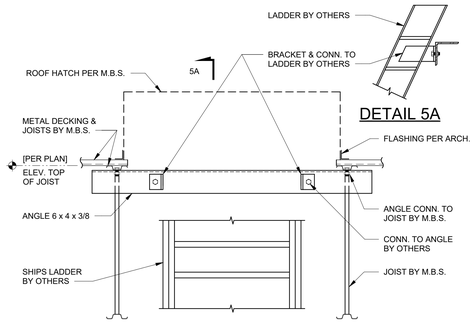
ALLOWABLE METHODS &
LOCATIONS FOR SUPPORTING LOADS
FROM OPEN WEB STEEL JOIST
(TYPICAL U.N.O. ON M.B.S. DRAWINGS) N.T.S.



NOTE:
1.) WHERE CONCENTRATED LOADS ARE SUPPORTED BY JOISTS CHORDS AND ARE LOCATED MORE THAN 6" FROM A PANEL POINT CL REINFORCE THE JOIST WITH AN ADDED ANGLE (E.S. JOIST) EXTENDING FROM THE POINT LOAD THE THE NEAREST PANEL POINT ON THE OPPOSITE CHORD.
2.) REMOVE LOAD FROM JOIST PRIOR TO WELDING ANGLE.
3.) ADDED ANGLES & WELDS BY M.B.S.

DIAGONAL BRACE DETAIL
(TYPICAL U.N.O. ON M.B.S. DRAWINGS) N.T.S.

4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"

ROOF TOP MECHANICAL UNIT HOLD-DOWNS

WIND SPEED (ULT.)	110 M.P.H.	115 M.P.H.	120 M.P.H.	130 M.P.H.	140 M.P.H.	150 M.P.H.	160 M.P.H.	170 M.P.H.	170-175 M.P.H.	SEISMIC
1-6 TON WT=(600-950#)	3 826#	4 915#	4 1008#	4 1207#	5 1421#	6 1651#	7 1897#	8 2159#	12 3460#	2 262#
6-10 TON WT=(1000-1400#)	3 709#	3 796#	3 887#	4 1080#	5 1288#	5 1512#	6 1752#	7 2006#	11 3261#	2 427#
9-15 TON WT=(1300-2000#)	3 667#	3 756#	3 849#	4 1048#	5 1262#	5 1491#	6 1737#	7 1999#	11 3134#	2 410#
16-30 TON WT=(2200-3200#)	4 927#	4 1059#	4 1197#	5 1491#	6 1808#	8 2149#	9 2513#	10 2901#	16 4696#	2 781#

THIS WIND SPEED APPLIES

NOTES:
1.) SEISMIC DESIGN: Ss=3.0, S1=1.5, Ip=1.0, Fp-1.0Wp (LRFD)
2.) WIND DESIGN: EXPOSURE C, RISK CATEGORY II, Kd=0.85
3.) NUMBER OF HOLD DOWN ARE THE REQUIRED HOLDOWN AT EA. LONG SIDE OF UNIT. UPLIFT LOAD SHOWN ARE LRFD FACTORED LOAD AT EACH CORNER OF UNIT.
4.) ANCHOR CONNECTION STRENGTH=607lbs. (LRFD).

MECHANICAL UNITS

TONS	LENGTH	WIDTH	HEIGHT	CURB
1-6	6'-10"	3'-8"	3'-9"	1'-2"
6-10	6'-10"	3'-8"	3'-8"	1'-2"
9-15	7'-4"	4'-11"	4'-2"	1'-2"
16-30	9'-2"	9'-2"	4'-11"	1'-2"

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI JOSE L. PARADA NUMBER PE-2010020644 PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

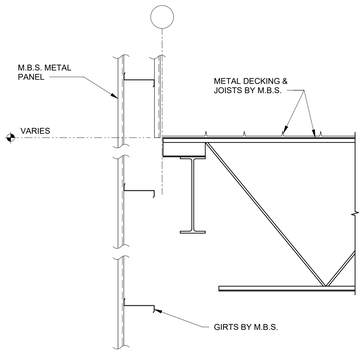
ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6988
www.engineersnw.com

SHEET CONTENTS: ROOF SECTIONS

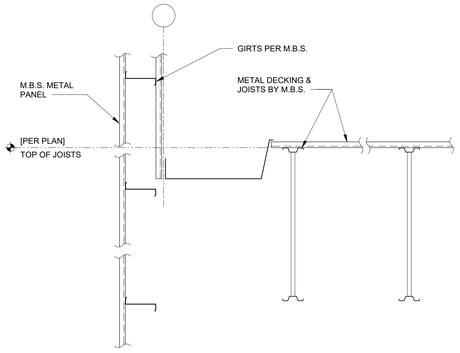
COSTCO WHOLESALE
COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S5.1

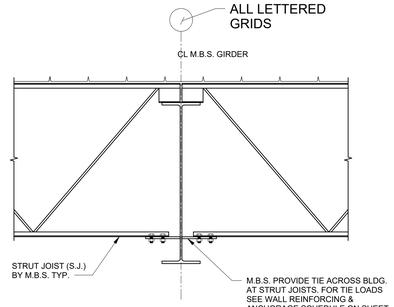
12/22/2025 6:16:02 PM C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt



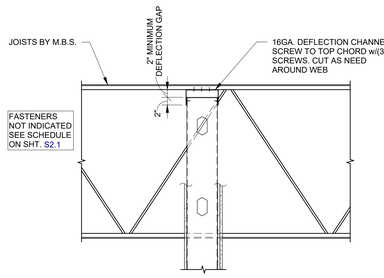
1 SECTION
3/4" = 1'-0"



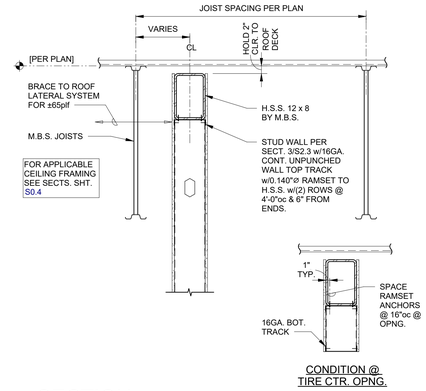
2 SECTION
3/4" = 1'-0"



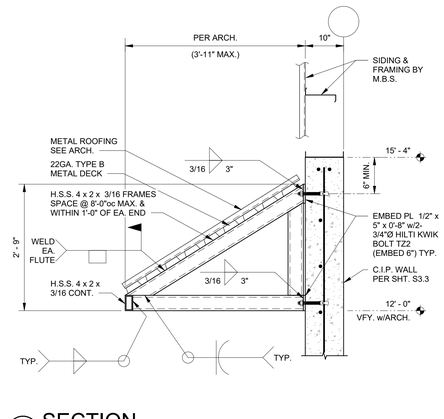
3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:53

NO.	DRAWING SUBMITTALS	DATE
	SUBMIT FOR PERMIT	12.23.25
	SUBMIT FOR BID	
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE

STATE OF MISSOURI JOSE L. PARADA NUMBER PE-2010024564 PROFESSIONAL ENGINEER
DATE SIGNED: 12/22/2025

ENW STRUCTURAL ENGINEERS
Engineers Northwest Inc., P.S.
19020 33 Third Ave W Suite 530 Lynnwood, WA 98036
Ph: (206)525-7560, Fax: (206)522-6698
www.engineersnw.com

COSTCO WHOLESALE

COSTCO LEE'S SUMMIT
NEC OF HWY 291 & OLDHAM PKWY LEE'S SUMMIT, MO

SHEET CONTENTS: ROOF SECTIONS

JOB NO.	25063000
ENGINEER:	R. ZHU
DRAWN:	L. MARTINEZ
DATE:	11.17.25
SHEET NO.	S5.2

12/22/2025 6:16:02 PM C:\Users\luism\Desktop\Local Projects\Costco Lees Summit MO_25063\STRU_25063000-LEES SUMMIT_MO-R2023-Luism.rvt

K:\2025\340-349\25-346 - Costco - Lee's Summit - MO - New_346M-0.1.dwg, 12/23/2025 12:01:41 PM, jseferian
12/23/2025 11:53:15 AM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt

PACKAGED HVAC EQUIPMENT SCHEDULE – OWNER SUPPLIED

COOLING DESIGN TEMPERATURES: 95.1°F DB, 62.2°F MCWB, 25.9°F DAILY RANGE HEATING DESIGN TEMPERATURES: 14.2°F DB 99%, 9.6°F DB 99.6% ELEVATION: 4226 FT

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
AC-3	AIR CONDITIONER	FOOD SERVICE	DAIKIN DPSC17B	212 MBH TOTAL COOLING, 150 MBH SENSIBLE, 93.3°F AMB, 84.3°F EDB, 68.9 °F EWB, 6800 CFM @ 0.5" ESP, EER = 10.8, IEER = 18.5 300 MBH INPUT, 243 MBH OUTPUT 81% AFUE	460V/3ø 70 MOCP 39.8 FLA	UNIT:1971# DUCT:670# CURB:118# DESIGN:3259#	PLAN M-1.1 10/M	225 CFM MIN O/A 2400 CFM MIN O/A FOR INTERLOCK WITH KEF-5	(4) (71)(77)(78)
AC-7~15	AIR CONDITIONER	MAIN SALES HIGH HEAT	DAIKIN DPSC30B	333 MBH TOTAL COOLING, 263 MBH SENSIBLE, 91.3°F AMB, 77°F EDB, 62.0 °F EWB, 11000 CFM @ 0.5" ESP, EER = 10.4, IEER = 16.7 600 MBH INPUT, 486 MBH OUTPUT, 81% AFUE	460V/3ø 100 MOCP 69.4 FLA	UNIT:4207# DUCT:501# CURB:255# DESIGN:5463#	PLAN M-1.1 1,2/M	MIN 2033 CFM O/A UP TO 4000 CFM BASED ON CO2 LEVELS	(4) (55)(60)(77)
AC-32	AIR CONDITIONER	BREAK ROOM	DAIKIN DPSC06B	80 MBH TOTAL COOLING, 54 MBH SENSIBLE, 82.2°F AMB, 87.2°F EDB, 66.5 °F EWB, 2400 CFM @ 0.5" ESP, EER = 11.2, IEER = 21.1 160 MBH INPUT, 129 MBH OUTPUT, 81% AFUE	460V/3ø 25 MOCP 14.6 FLA	UNIT:1015# DUCT:441# CURB:88# DESIGN:2044#	PLAN M-1.1 1,2,4/M	500 CFM MIN O/A	(4) (55)
AC-35	AIR CONDITIONER	TIRE INSTALL	DAIKIN DPSC10B	119 MBH TOTAL COOLING, 80 MBH SENSIBLE, 91.3°F AMB, 77°F EDB, 60 °F EWB, 3400 CFM @ 0.5" ESP, EER = 11.0, IEER = 19.2, 243 MBH INPUT, 234 MBH OUTPUT, 81% AFUE	460V/3ø 45 MOCP 26.2 FLA	UNIT:1785# DUCT:534# CURB:118# DESIGN:2937#	PLAN M-1.1 9/M	400 CFM MIN O/A	(4)
MAU-28	AIR CONDITIONER	BAKERY	DAIKIN DPSC10B	119 MBH TOTAL COOLING, 109 MBH SENSIBLE, 82.2°F AMB, 87.2°F EDB, 66.5 °F EWB, 3600 CFM @ 0.5" ESP, EER = 11, IEER = 19.2 400 MBH INPUT, 324 MBH OUTPUT, 81% AFUE	460V/3ø 45 MOCP 26.2 FLA	UNIT:1898# DUCT:534# CURB:118# DESIGN:3050#	PLAN M-1.1 PLAN M-2.2 10/M	225 CFM MIN O/A 3600 CFM O/A FOR INTERLOCK WITH KEF-8,9,10	(3) (74)(78)
MAU-37	AIR CONDITIONER	ROTISSERIE	DAIKIN DPSC16B	219 MBH TOTAL COOLING, 155 MBH SENSIBLE, 95°F AMB, 88.8°F EDB, 71.9 °F EWB, 6000 CFM @ 0.5" ESP, EER = 11.76, IEER = 15.78 600 MBH INPUT, 486 MBH OUTPUT, 81% AFUE	460V/3ø 60 MOCP 34.7 FLA	UNIT:3965# DUCT:400# CURB:255# DESIGN:5120#	PLAN M-1.1 PLAN M-2.1 10/M	3,500 CFM MIN. INTERLOCK WITH KEF-12,13. CONTROL CIRCUIT POWERED BY HCC	(4) (74)(78)
UH-3	UNIT HEATER	PUMP ROOM	STERLING SS 75	SEPARATED COMBUSTION PROPELLER FAN GAS UNIT HEATER, 75 MBH INPUT,82% EFFICIENT, 920 CFM, STAINLESS STEEL HEAT EXCHANGER, POWER VENT. SEALED COMBUSTION, 60' NOZZLE .	120V/1ø 0.08 HP 4.1 FLA	85#	PLAN M-1.1 27/M	T'STAT W/LOCKABLE COVER FURNISHED BY HVAC SUPPLIER; INSTALLED BY M.C. M.C. TO FURNISH ALL CONTROL WIRING AND CONDUIT	
UH-4	UNIT HEATER	MECHANICAL ROOM	STERLING SS 75	SEPARATED COMBUSTION PROPELLER FAN GAS UNIT HEATER, 75 MBH INPUT,82% EFFICIENT, 920 CFM, STAINLESS STEEL HEAT EXCHANGER, POWER VENT. SEALED COMBUSTION, 60' NOZZLE .	120V/1ø 0.08 HP 4.1 FLA	85#	PLAN M-1.1 27/M	T'STAT W/LOCKABLE COVER FURNISHED BY HVAC SUPPLIER; INSTALLED BY M.C. M.C. TO FURNISH ALL CONTROL WIRING AND CONDUIT	

GENERAL NOTES
- All equipment furnished by costco, installed by m.c. contact costco purchasing dept. to coordinate delivery time
- AC units provided with D.D.C. communications interface controlled by building management system by controls installer. sensor/t'stat S.I.O. sensors @ +72", t'stats at 48" A.F.F.
- Contractor to install all items listed in equipment submittal per manufacturers installation and operation manual
- Roof curbs provided by M.B.S. unless otherwise noted

(3) *ECONOMIZER WITH DDC ACTUATOR *115V CONVENIENCE OUTLET – FACTORY WIRED *POWER SWITCH 100 AMPS *2" PLEATED 30% EFFICIENT FILTERS *PHASE & BROWN OUT PROTECTION *FACTORY INSTALLED DDC CONTROLS
(4) *ECONOMIZER WITH DDC ACTUATOR *115V CONVENIENCE OUTLET – FACTORY WIRED *POWER SWITCH 100 AMPS *2" PLEATED 30% EFFICIENT FILTERS *PHASE & BROWN OUT PROTECTION *FIELD INSTALLED DDC CONTROLS FURNISHED BY OTHERS
(55) HVAC SUPPLY & RETURN DUCT DROP S.O.I.C.
(60) OUTSIDE AIR CONTROLLED BY FIELD INSTALLED CO2 SENSOR TO MAINTAIN MAXIMUM 1,000 PPM CO2 AND MAINTAIN THE BUILDING AT A POSITIVE STATIC PRESSURE
(71) UNIT SHALL BE CONTROLLED BY BMS. UNIT SHALL BE CAPABLE OF 50% OUTDOOR AIR, AND HAVE FACTORY INSTALLED MOTORIZED OUTSIDE AIR DAMPER SO THAT WHEN PIZZA OVEN HOOD SYSTEM IS OPERATING AC UNIT CAN PROVIDE MAKE-UP AIR TO FOOD SERVICE FACILITY
(74) MODULATING GAS VALVE WITH STAINLESS STEEL HEAT EXCHANGER
(77) DEHUMIDIFICATION OPTION – HOT GAS REHEAT
(78) COOLING COIL UV LIGHTS

SPLIT SYSTEM HVAC EQUIPMENT SCHEDULE – OWNER SUPPLIED

COOLING DESIGN TEMPERATURES: 95.1°F DB, 62.2°F MCWB, 25.9°F DAILY RANGE HEATING DESIGN TEMPERATURES: 14.2°F DB 99%, 9.6°F DB 99.6% ELEVATION: 4226 FT

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
CU-1	AIR CONDITIONER	PHARMACY, OPTICAL	DAIKIN 4MXM36AVJU9	HEAT PUMP OUTDOOR UNIT, 3/8" LIQ, 3/4" GAS 34.2 MBH COOLING 34.6 MBH HEAT @ 47°F, 3 NOM. TONS, SEER2: 10 EER2: 5 HSPF2: 4.75	208V/1ø 24.1 MCA	UNIT: 218#	MR-2.1		
IU-111, 112	AIR CONDITIONER	PHARMACY	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.	POWERED BY CU-1	UNIT: 39#	MR-2.1 82/M	O/A FROM WAREHOUSE	
IU-113,	AIR CONDITIONER	OPTICAL	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.	POWERED BY CU-1	UNIT: 39#	MR-2.1 82/M	O/A FROM WAREHOUSE	
CU-2	AIR CONDITIONER	PHARMACY, OPTICAL	DAIKIN 4MXM36AVJU9	HEAT PUMP OUTDOOR UNIT, 3/8" LIQ, 3/4" GAS 34.2 MBH COOLING 34.6 MBH HEAT @ 47°F, 3 NOM. TONS, SEER2: 10 EER2: 5 HSPF2: 4.75	208V/1ø 24.1 MCA	UNIT: 218#	MR-2.1		
IU-211, 212	AIR CONDITIONER	PHARMACY	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.	POWERED BY CU-2	UNIT: 39#	MR-2.1 82/M	O/A FROM WAREHOUSE	
IU-213, 214	AIR CONDITIONER	OPTICAL	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.	POWERED BY CU-2	UNIT: 39#	MR-2.1 82/M	O/A FROM WAREHOUSE	
CU-3	AIR CONDITIONER	HEARING, OFFICE	DAIKIN 4MXM36AVJU9	HEAT PUMP OUTDOOR UNIT, 3/8" LIQ, 3/4" GAS 34.2 MBH COOLING 34.6 MBH HEAT @ 47°F, 3 NOM. TONS, SEER2: 10 EER2: 5 HSPF2: 4.75	208V/1ø 24.1 MCA	UNIT: 218#	MR-2.1		
IU-311,	AIR CONDITIONER	HEARING	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.	POWERED BY CU-3	UNIT: 39#	MR-2.1 82/M	O/A FROM WAREHOUSE	
IU-321,	AIR CONDITIONER	VAULT	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.	POWERED BY CU-3	UNIT: 39#	MR-2.1 82/M	O/A FROM WAREHOUSE	
IU-322,	AIR CONDITIONER	OFFICE	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.	POWERED BY CU-3	UNIT: 39#	MR-2.1 82/M	O/A FROM WAREHOUSE	
CU-4	AIR CONDITIONER	OFFICE, HEARING, OPTICAL	DAIKIN 4MXM36AVJU9	HEAT PUMP OUTDOOR UNIT, 3/8" LIQ, 3/4" GAS 34.2 MBH COOLING 34.6 MBH HEAT @ 47°F, 3 NOM. TONS, SEER2: 10 EER2: 5 HSPF2: 4.75	208V/1ø 24.1 MCA	UNIT: 218#	MR-2.1		
IU-411,	AIR CONDITIONER	HEARING	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.	POWERED BY CU-4	UNIT: 39#	MR-2.1 82/M	O/A FROM WAREHOUSE	
IU-412,	AIR CONDITIONER	OPTICAL	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.	POWERED BY CU-4	UNIT: 39#	MR-2.1 82/M	O/A FROM WAREHOUSE	
IU-421, 422	AIR CONDITIONER	OFFICE	DAIKIN FDMQ09RVJU	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT 343/290 CFM 0.2" S.P. MAX.	POWERED BY CU-4	UNIT: 39#	MR-2.1 82/M	O/A FROM WAREHOUSE	

GENERAL NOTES
- All equipment furnished by owner. Refer to HVAC Equipment Responsibilities on sheet M-0.2 for installation.
- AC units provided with D.D.C. communications interface controlled by building management system by controls installer. sensor/t'stat S.I.O. sensors @ +72", t'stats at 48" A.F.F.
- Refrigeration contractor to install all items listed in equipment submittal per manufacturers installation and operation manual
- For LG multi-split layout, piping information and equipment submittals, contact Alex Noble at Johnson Barrow: 425.445.5935 or ALEXN@JBARROW.COM
- MINIMUM REQUIRED LINE LENGTH FROM CU TO WYE IS 16.4 FEET, WYE TO BDU IS 16.4 FEET, AND BDU TO IU-# IS 16.4 FEET. MAX LENGTH FROM BDU TO IDU-# IS 49 FEET.

AIR TERMINAL SCHEDULE – S.I.C.

SYMBOL	MANUFACTURER	SERVICE	MODEL	PATTERN	DAMPER NECK	FRAME	LOCATION *
CD	TUTTLE & BAILEY	SUPPLY	SQD	BLADE		LAYIN	OFFICES, OPTICAL
CDFP**	CAPTIVEAIRE	SUPPLY	DI-PSP	2@51% PERFORATED		LAYIN	FOOD SERVICE, ENCLOSED ROTISS/BAKERY
RG	TUTTLE & BAILEY	RETURN	PR	PERFORATED		LAYIN	OFFICES, OPTICAL
EG-1	TUTTLE & BAILEY	EXHAUST	CRE500	EGG CRATE		FLANGE	RESTROOMS, JANITOR ROOM
EG-2	TUTTLE & BAILEY	EXHAUST	A70D	FIXED BLADE		LAYIN	DEMO ROOM, EDP
EG-3	TUTTLE & BAILEY	EXHAUST	CT70DFB-SS	45° FIXED BLADE		FLANGE	DELI, MEAT, BAKERY (MIP), FOOD SERVICE (MIP)
RGFP**	TUTTLE & BAILEY	RETURN	CT70DFB-SS	45° FIXED BLADE		LAYIN	BAKERY (T-BAR), FOOD SERVICE (T-BAR)
DG	---	DOOR GRILLE	PROVIDED BY GC	---		LAYIN	RESTROOMS, JANITOR ROOM, DEMO ROOM
CDF	TUTTLE & BAILEY	SUPPLY	PP	PERFORATED	FIRE / OBD	LAYIN	VAULT
RGF	TUTTLE & BAILEY	SUPPLY	PR	PERFORATED	FIRE / OBD	LAYIN	VAULT
CDH	TUTTLE & BAILEY	SUPPLY	SQD	BLADE		FLANGE	HEARING CENTER
ND	TUTTLE & BAILEY	SUPPLY	DJ-DM-SP-SA	NOZZLE DIFFUSER	WITH DAMPER	DUCT MNT.	TIRE INSTALL
RGH	TUTTLE & BAILEY	RETURN	PR	PERFORATED		FLANGE	HEARING CENTER
WSG	TUTTLE & BAILEY	SUPPLY	T54	FIXED BLADE		FLANGE	
WRG	TUTTLE & BAILEY	RETURN	A70D	FIXED BLADE		FLANGE	

* VERIFY NUMBER OF DIFFUSERS AND ALL LOCATIONS ON PLANS – DIFFUSER IS NOT REQUIRED IF NOT ON PLANS
** DIFFUSER TO HAVE BRUSHED STAINLESS STEEL FACE. DO NOT PROVIDE WITH FILTER.

COSTCO WHOLESALE

PLAN INDEX		DETAIL	SCOPE
M-0.1	MECHANICAL HVAC SCHEDULES, HVAC LEGEND, GENERAL NOTES, AND INDEX	NONE	GC/RC
M-0.2	MECHANICAL HVAC SCHEDULES AND DETAILS	10,19,20,41,43	GC/RC
M-0.3	MECHANICAL HVAC DETAILS	1,2,3,4,5,8,11,13,15, 16,17,18,23,28,29, 47,64,65,80,105	GC/RC
M-0.4	MECHANICAL HVAC DETAILS	9,21,22,24,25,27,37 48,70,82,84,85,86,87	GC/RC
M-1.1	MAIN MECHANICAL PLAN	NONE	GC/RC
M-2.1	ENLARGED HVAC PLANS: FRESH LINE, WELLNESS, PARTIAL, TIRE INSTALL, & RECEIVING	NONE	GC
MR-1.1	MECHANICAL CONTROLS PLAN	NONE	RC
MR-1.2	HVAC CONTROLS SCHEDULE AND DETAILS	26,83,89,90,91, 101,102,103,104	RC
MR-2.1	ENLARGED R.C. HVAC PLANS: PARTIAL, WELLNESS, TIRE INSTALL, FRESH LINE	NONE	RC

HVAC LEGEND

24/48	AIR DUCT – FIRST # IS SIDE SHOWN
	FLEXIBLE DUCT CONNECTION
TV	TURNING VANE
	SUPPLY DUCT UP
	RETURN DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT DOWN
	AIR VOLUME DAMPER
	CEILING DIFFUSER
	SQUARE TO ROUND DUCT TRANSITION
—C—	CONDENSATE DRAIN
AC 1	AIR CONDITIONER #1
T	THERMOSTAT
T	THERMOSTAT (W/LOCKING COVER)
S	SENSOR
RH	HUMIDISTAT
CO_2	CARBON DIOXIDE
CONT.	CONTINUATION
TYP.	TYPICAL
CFM	CUBIC FEET PER MINUTE
AMB	AMBIENT TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
DG	DOOR GRILLE
EWB	ENTERING WET BULB TEMPERATURE
MBH	1,000 BRITISH THERMAL UNITS/HR.
ESP	EXTERNAL STATIC PRESSURE
EG	EXHAUST GRILLE
RG	RETURN GRILLE
CD	CEILING DIFFUSER
RA	RETURN AIR
SA	SUPPLY AIR
CDF	CEILING DIFFUSER WITH FIRE DAMPER
RGF	RETURN GRILLE WITH FIRE DAMPER
CDFP	CEILING DIFFUSER FOOD PREPARATION
RGFP	RETURN GRILLE FOOD PREPARATION
CO	CLEAN OUT
VD	VOLUME DAMPER
MBS	METAL BUILDING SUPPLIER
M.C.	MECHANICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
S.I.C.	SUPPLY/INSTALL BY CONTRACTOR
S.I.O.	SUPPLY/INSTALL BY OWNER
S.O.I.C.	SUPPLY BY OWNER INSTALL BY CONTRACTOR
S.O.I.R.C.	SUPPLY BY OWNER INSTALL BY REFR. CONTRACTOR
U.N.O.	UNLESS NOTED OTHERWISE
R.C.	REFRIGERATION CONTRACTOR

EXHAUST FAN EQUIPMENT SCHEDULE – CONTRACTOR SUPPLIED

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
EF-1	EXHAUST FAN	PUBLIC RESTROOM	COOK ACE-DEC 150	2000 CFM @0.50" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. CONTROLLED BY TS-1 PROVIDED BY M.C.	3/4 HP 120V/1ø	108#	15/M	17" SQ. ROOF OPENING	(1) (2) (4)
EF-2	EXHAUST FAN	PUMP ROOM	COOK XWD 18XW34D152	3500 CFM @ 0.35" SP. CONTROLLED BY THERMOSTAT PROVIDED BY M.C. INSTALLED BY E.C.	3/4HP 120V/1ø	120#	47/M	25" SQ. ROOF OPENING.	(2) (4) (5)
EF-3,4,33	EXHAUST FAN	TIRE CENTER RECEIVING	COOK GEMINI GC-166	140 CFM @0.25" SP. CONTROLLED BY MOTION SENSOR SWITCH, PROVIDED BY E.C.	49 WATTS 120V/1ø	15#	13/M	8"ø ROOF OPENING PROVIDE DUCT ROOF CAP	(2) (3)
EF-6	EXHAUST FAN	MEAT PREP	COOK ACE-DEC 135	1170 CFM @ 0.38" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. INTERLOCK WITH POWERSOAK SINK BY E.C.	1/6HP 120V/1ø	108#	15/M	15" SQ. ROOF OPENING	(1) (2) (4)
EF-7	EXHAUST FAN	DELI	COOK ACE-DEC 101	600 CFM @ 0.25" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. INTERLOCK WITH DISHWASHER BY E.C.	1/6HP 120V/1ø	42#	15/M	14" SQ. ROOF OPENING	(1) (2) (4)
EF-23	EXHAUST FAN	CHICKEN PREP	COOK ACE-DEC 101 OR60	160 CFM @ 0.50" SP. PROVIDE WITH FAN SPEED CONTROLLER MOUNTED UNDER MOTOR DOME. INTERLOCK WITH POWERSOAK SINK BY E.C.	1/8HP 120V/1ø	42#	15/M	10" SQ. ROOF OPENING	(1) (2) (4)
EF-30	EXHAUST FAN	MECHANICAL RM.	COOK XWD 10XW40D15	750 CFM @0.12" SP. INTERLOCK WITH LIGHTING BY E.C.	95 HP 120V/1ø	30#	47/M	13" SQ. ROOF OPENING.	(2) (3) (5) (6)
EF-31	EXHAUST FAN	MECHANICAL RM.	COOK AWB 42A10B	14,000CFM @ 0.50" SP. CONTROLLED BY EXHAUST FAN CONTROL PANEL PROVIDED BY G.C., WIRED BY E.C.	3 HP 208V/3ø	284#	47/M	31" SQ. ROOF OPENING.	(2) (5) (6)
LV-1	WEATHER LOUVER	PUMP ROOM	RUSKIN ELF 375DX	STATIONARY ALUMINUM LOUVER W/4" DEEP FRAME. PROVIDE WITH ALUMINUM BIRD SCREEN.			PLAN M-1.1	SIZE TO MATCH WALL OPENING.	(6)
LV-2	WEATHER LOUVER	PUMP ROOM	RUSKIN ELM 6375	36/36 ADJUSTABLE LOUVER WITH SCREEN AND DAMPER MOTOR.			PLAN M-1.1	INTERLOCKED W/ EF-2 AND FIRE PUMP CONTROLLER.	
LV-3	WEATHER LOUVER	MECHANICAL RM	RUSKIN ELM 6375	48/48 ADJUSTABLE LOUVER WITH SCREEN AND DAMPER MOTOR. WIRING TO CONTROL PANEL BY E.C.			PLAN M-1.1	INTERLOCKED W/ EXHAUST FAN CONTROL PANEL	
LV-4	WEATHER LOUVER	MECHANICAL RM.	RUSKIN ELF 375DX	48/64 STATIONARY ALUMINUM LOUVER W/4" DEEP FRAME. PROVIDE WITH ALUMINUM BIRD SCREEN.			PLAN M-1.1	SIZE TO MATCH EF-30&31 W.O.	
LV-5	WEATHER LOUVER	MECHANICAL RM	RUSKIN ELM 6375	48/48 ADJUSTABLE LOUVER WITH SCREEN AND DAMPER MOTOR. WIRING TO CONTROL PANEL BY E.C.			PLAN M-1.1	INTERLOCKED W/ EXHAUST FAN CONTROL PANEL	
SF-6	SUPPLY FAN	FOOD SERVICE	COOK SQN-HEC 090	300 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY STRUCTURE. CONTROLLED BY T'STAT (40°F MIN.) PROVIDED BY M.C., INSTALLED BY E.C. T'STAT TO BE MOUNTED @ 24"A.F.F.	1/6HP 120V/1ø	90#	30/M		(4)
TF-21	TRANSFER FAN	DEMO ROOM	COOK SQN-HEC 090	550 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY STRUCTURE. CONTROLLED BY T'STAT PROVIDED BY M.C., INSTALLED BY E.C. T'STAT TO BE MOUNTED @ 48"A.F.F.	1/6HP 120V/1ø	90#	29/M	12" SQ. INLET/OUTLET.	(4) (5)
TF-22,23	TRANSFER FAN	EDP	COOK SQN-DEC 120 GALV	1200 CFM @ 0.50" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY STRUCTURE. CONTROLLED BY MODULATING T'STAT PROVIDED BY M.C. T'STAT TO BE MOUNTED @ 48" A.F.F. LINE VOLTAGE BY E.C., LOW VOLTAGE BY M.C.	1/2 HP 120V/1ø	150#	29/M	18" SQ. INLET/OUTLET. T'STAT SETPOINT: 75°F 0VDC @ 70°F, 10VDC @ 75°F	(4) (5)
TF-24	TRANSFER FAN	MPU	S&P TD150S	260 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY STRUCTURE. CONTROLLED BY 12HR TIMER PROVIDED BY M.C., INSTALLED BY E.C. TIMER TO BE MOUNTED @ 48"A.F.F.	60.9WATTS 120V/1ø	15#	105/M	6"ø. INLET/OUTLET.	(4) (5)
TF-25	TRANSFER FAN	QUIET ROOM	S&P TD150S	260 CFM @ 0.25" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY STRUCTURE. INTERLOCK WITH LIGHTING BY E.C.	60.9WATTS 120V/1ø	15#	105/M	6"ø. INLET/OUTLET.	(4) (5)
TF-27	TRANSFER FAN	MDP	COOK SQN-D 100 GALV	1200 CFM @ 0.38" SP. INLINE TRANSFER FAN SUPPORTED BY ANCILLARY STRUCTURE. CONTROLLED BY MODULATING T'STAT PROVIDED BY M.C. T'STAT TO BE MOUNTED @ 48" A.F.F. LINE VOLTAGE BY E.C., LOW VOLTAGE BY M.C.	1/2 HP 120V/1ø	150#	29/M	14" SQ. INLET/OUTLET. T'STAT SETPOINT: 85°F 0VDC @ 75°F, 10VDC @ 85°F	(4) (5)
TS-1	TIME SWITCH	EF-1	TORK EW101B	PROGRAMMABLE, 7 DAY SPST, 20 ON/OFF SET POINTS. WITH MANUAL OVERRIDE. NEMA 3R ENCLOSURE TIME CLOCK PROVIDED BY M.C.	120V/1ø		PLAN M-2.1 PLAN M-1.1		

GENERAL NOTES: (APPLIES TO ENTIRE SCHEDULE AS APPLICABLE)
1. ALL SWITCHES AND T-STATS MOUNTED AT 42" AFF UNLESS OTHERWISE NOTED SEE DESCRIPTION FOR RESPONSIBLE CONTRACTOR.
2. DO NOT ADJUST SPEED CONTROLLER SLOWER 60% OF FAN MOTOR SPEED.
3. PROVIDE MOTOR STARTER AND OVERLOAD PROTECTION FOR ALL MOTORS PER SPEC SECTION 230000.

SCHEDULE NOTES: (SEE COLUMN ON RIGHT FOR APPLICABILITY):
(1) ROOF CURB FOR METAL ROOF PROVIDED BY M.B.S.
(2) PROVIDE BACKDRAFT DAMPER.
(3) ALLOW UP TO 200% OF AIR FLOW FOR BALANCE.
(4) PROVIDE FAN SPEED CONTROLLER MOUNTED IN ACCESSIBLE LOCATION NEAR EQUIPMENT (U.N.O.)
(5) PROVIDE WITH OUTLET SAFETY SCREEN.

EXHAUST FAN EQUIPMENT SCHEDULE – OWNER SUPPLIED

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
FCP-1	CONTROL PANEL	EF-31	MICRO THERMO	PREWIRED EXHAUST FAN CONTROL PANEL PROVIDED BY M.C. INCLUDES ALARM, TEMP. SENSOR AND EMERGENCY PULL STATIONS. FINAL CONNECTIONS BY E.C.	208V/3ø		80/M	CONTACT: MTORDER@PARKER.COM REFERENCE: PART# 963-0185 LEAD TIME: 4-6 WEEKS	

KITCHEN HVAC EQUIPMENT SCHEDULE – OWNER SUPPLIED

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
H-1,2	ROTISSERIE OVEN HOOD	ROTISSERIE	CAPTIVEAIRE	MODEL 7830ND, E.T.L. LISTED 3054804-001, 600°F MAXIMUM COOKING TEMPERATURE. TYPE I HOOD WITH FILTERS, LIGHTS & TEMPERATURE SENSOR, 18 GA. STAINLESS STEEL CONSTRUCTION.		HOOD:905#/EA PSP:127#/EA TOTAL:2064#	20/M		
H-3	PIZZA OVEN HOOD	FOOD SERVICE	CAPTIVEAIRE	MODEL 6630ND-2-PSP-B, E.T.L. LISTED 3054804-001/002 TYPE I HOOD WITH FILTERS, LIGHTS & TEMPERATURE SENSOR, 18 GA. STAINLESS STEEL CONSTRUCTION.		HOOD:426#/EA PSP:178# TOTAL:1030#	19/M		
HCC	HOOD CONTROL CABINET	ROTISSERIE/ PIZZA HOOD	CAPTIVEAIRE DCV-2111	ETL LISTED WALL MOUNT CONTROL CABINET. INSTALLED BY E.C. LOCATE PER ELECTRICAL DRAWINGS. CONNECTIONS FOR EXHAUST FANS, LIGHTS, ROOM SENSOR, DUCT SENSOR AND USER INTERFACE.	208V/3ø		41/M		(2)
HMI	CONTROL MODULE	KEF-5 KEF-12,13	CAPTIVEAIRE HMI	HOOD CONTROL PANEL USER INTERFACE.			PLAN M-2.1 43/M		
HRS	ROOM SENSOR	KEF-5 KEF-12,13	CAPTIVEAIRE ROOM TEMP SENSOR	LOW VOLTAGE TEMP SENSOR MOUNTED IN SINGLE GANG ELECTRICAL BOX.			PLAN M-2.1 43/M		
KEF-5	HOOD EXHAUST FAN	PIZZA HOOD	CAPTIVEAIRE DU180HFA	3000 CFM @1.39" ESP.UL 762 LISTED, UP-BLAST, DIRECT DRIVE CENTRIFUGAL FAN. PROVIDE WITH GREASE BOX AND HINGE KIT. CONTROLLED BY HOOD MANAGEMENT SYSTEM.	3 HP 208V/3ø	FAN:185# CURB:35# DUCT:993# TOTAL:1213#	16/M	INTER-LOCK WITH AC-3 O/A INTAKE & CONTROL MODULE. 24" SQ. ROOF OPENING 24" MINIMUM CURB HEIGHT	(1)
KEF-8,9,10	KITCHEN EXHAUST FAN	BAKERY OVENS	CAPTIVEAIRE DU50HFA	1000 CFM @ 0.60" SP. PROVIDE WITH FLOATING HINGE AND GREASE BOX. CONTROLLED BY OVENS. PROVIDED BY E.C. UL 762 LISTED.	1/2HP 120V/1ø	82#	16/M	16" SQ. ROOF OPENING	(1)
KEF-11	CURB			ROOF CURB WITH SEALED CAP FOR FUTURE EXHAUST FAN INSTALL. CURB CONSTRUCTION TO MATCH KEF-8,9.				16" SQ. ROOF OPENING	(1)
KEF-12,13	HOOD EXHAUST FAN	ROTISSERIE	CAPTIVEAIRE DU180HFA	2805 CFM @1.20" ESP. UL 762 LISTED, UP-BLAST, DIRECT DRIVE CENTRIFUGAL FAN. PROVIDE WITH GREASE BOX AND HINGE KIT. CONTROLLED BY HOOD MANAGEMENT SYSTEM.	3 HP 208V/3ø	FAN:185# CURB:35# DUCT:672# TOTAL:892#	16/M	24" SQ. ROOF OPENING 24" MINIMUM CURB HEIGHT INTERLOCK W/ROTISSERIE OVEN GAS SOLENOID VALVE.	(1)
KTF-14, 15	KITCHEN TRANSFER FAN	BAKERY	CAPTIVEAIRE SIF13DD	1500 CFM @ 0.25" SP. INLINE TRANSFER FAN SUSPENDED FROM ROOF TRUSSES. INTERLOCK WITH LIGHTS BY E.C.	3/4 HP 120V/1ø 20 MCOP	130#	24/M		(3)
KEF-22	KITCHEN EXHAUST FAN	PAN WASHER	CAPTIVEAIRE DU50HFA	1050 CFM @ 0.38" SP. INTERLOCK WITH LIGHTS BY E.C.	1/2HP 120V/1ø	76#	16/M	16" SQ. ROOF OPENING	(1) (4)

GENERAL NOTES: (APPLIES TO ENTIRE SCHEDULE AS APPLICABLE)
1. ALL SWITCHES AND T-STATS MOUNTED AT 42" AFF UNLESS OTHERWISE NOTED SEE DESCRIPTION FOR RESPONSIBLE CONTRACTOR.
2. FIRE SUPPRESSION SYSTEM S.O.I.C.. G.C. TO CONTACT APPROVED SUB-CONTRACTORS FOR FIRE SUPPRESSION SYSTEM INSTALLATION.
3. FIRE SUPPRESSION SYSTEM FACTORY INTERLOCKED WITH CAPTIVEAIRE CONTROL CABINET. G.C. TO COORDINATE INSTALLATION OF ALL EQUIPMENT AND FINAL CONNECTIONS.

SCHEDULE NOTES: (SEE COLUMN ON RIGHT FOR APPLICABILITY):
(1) ROOF CURB FOR METAL ROOF PROVIDED BY M.B.S.
(2) M.C. TO UNCRATE H.C.C. AND PROVIDE TO E.C. FOR MOUNTING AND LINE VOLTAGE CONNECTIONS. ALL LOW VOLTAGE CONNECTIONS BY M.C.
(3) ADJUST FAN SPEED TO MAX AND RECORD AIR VOLUME IN AIR SCHEDULE.
(4) PROVIDE BACKDRAFT DAMPER.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:53

ISSUED FOR PERMIT

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

© T.E., Inc: All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE #___

TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 06/04/24

MECHANICAL SCHEDULES, NOTES, & LEGEND

M-0.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:53

AIR DOOR EQUIPMENT SCHEDULE – OWNER SUPPLIED

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
AD–1,2	AIR DOOR	VESTIBULE	POWERED AIRE ETD–2–96E	ELECTRIC HEATED AXIAL FAN UNIT HEATER, FRONT INTAKE, 8' LONG, 3174/2134 AVG FPM, 7614/5127 CFM 20 KW, 63 DBA. COMES WITH REMOTE ON/OFF, REMOTE HEAT HIGH/LOW, & T'STAT. MOUNT SWITCHES @42" A.F.F.	(2) 3/4 HP MOTORS 480V/3Ø FLA 28.1 MCOP 40	284#	PLAN M–1.1	SEE SPECIFICATIONS; SINGLE ELECTRICAL CONNECTION. ALL ELECTRICAL BY E.C.	
AD–3	AIR DOOR	BREAD DOOR	POWERED AIRE ETD–3–120E	ELECTRIC HEATED AXIAL FAN UNIT HEATER, FRONT INTAKE, 10' LONG, 3174/2134 AVG FPM, 7614/5127 CFM 30 KW, 63 DBA. COMES WITH REMOTE ON/OFF, REMOTE HEAT HIGH/LOW, & T'STAT. MOUNT SWITCHES @42" A.F.F.	(3) 3/4 HP MOTORS 480V/3Ø FLA 42.7 MCOP 60	284#	PLAN M–1.1	SEE SPECIFICATIONS; SINGLE ELECTRICAL CONNECTION. ALL ELECTRICAL BY E.C.	(1) (2)
AD–4,5	AIR DOOR	EXIT	POWERED AIRE TIG 2–84–FI–AVD	GAS FIRED CENTRIFUGAL UNIT HEATER, TOP INTAKE. 7' LONG, 4218 FPM, 6766 CFM, 250 MBH INPUT EA, 200 MBH OUTPUT EA, 63 DBA. COMES WITH REMOTE ON/OFF, REMOTE HEAT HIGH/LOW, & T'STAT. MOUNT SWITCHES @ 42" A.F.F	(2) 3/4 HP MOTORS 208V/1Ø FLA 28.8 MCOP 40	569#	PLAN M–1.1 18/M	SEE SPECIFICATIONS; SINGLE ELEC. CONN. FOR MOTORS. UNIT HEATER TO BE SEALED COMBUSTION	(1) (2)
AD–6	AIR DOOR	ENTRANCE	POWERED AIRE TIG 3–120–FI–AVD	GAS FIRED CENTRIFUGAL UNIT HEATER, TOP INTAKE. 10' LONG, 4218 FPM, 9668 CFM, 200 MBH INPUT EA, 160 MBH OUTPUT EA, 63 DBA. COMES WITH REMOTE ON/OFF, REMOTE HEAT HIGH/LOW, & T'STAT. MOUNT SWITCHES @ 42" A.F.F	(3) 3/4 HP MOTORS 208V/1Ø FLA 21.6 MCOP 30	569#	PLAN M–1.1 18/M	SEE SPECIFICATIONS; SINGLE ELEC. CONN. FOR MOTORS. UNIT HEATER TO BE SEALED COMBUSTION	(1) (2)

(1) FACTORY INSTALLED DRY CONTACTS (BMS) FOR FAN/HEAT STATUS
(2) PROVIDE WITH INDUSTRIAL MAGNETIC REED SWITCH.

INFRARED HEAT EQUIPMENT SCHEDULE – OWNER SUPPLIED

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
RH–1,2	INFRARED HEATER	CANOPY	DETROIT RADIANT HL3	TWO–STAGE INFRARED TUBE HEATER, 82–125 MBH INPUT, 40' LENGTH ALUMINIZED TUBE W/STANDARD ALUMINUM REFLECTOR. CONTROLLED BY T'STAT. MOUNT EMITTER TUBE @ 12'–6" A.F.F.	120V/1ø 1.3 FLA	190#	PLAN M–1.1 28/M	T'STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	
RH–4	INFRARED HEATER	MEMBERSHIP DESK	DETROIT RADIANT HL3	TWO STAGE INFRARED TUBE HEATER, 50–75 MBH INPUT, 20' LENGTH ALUMINIZED TUBE, W/STANDARD ALUMINUM AND ONE–SIDE REFLECTORS. CONTROLLED BY T'STAT. MOUNT EMITTER TUBE @ 17' A.F.F.	120V/1ø 1.3 FLA	120#	PLAN M–1.1 28,62/M	T'STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	
RH–7,8	INFRARED HEATER	TIRE INSTALL	DETROIT RADIANT HL3	TWO STAGE INFRARED TUBE HEATER, 52–125 MBH INPUT, 30' LENGTH ALUMINIZED TUBE, W/STANDARD ALUMINUM AND ONE–SIDE REFLECTORS. CONTROLLED BY T'STAT. MOUNT EMITTER TUBE @ 17' A.F.F.	120V/1ø 1.3 FLA	160#	PLAN M–1.1 28/M	T'STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	
RH–9,10	INFRARED HEATER	TIRE INSTALL	DETROIT RADIANT HL3	TWO STAGE INFRARED TUBE HEATER, 50–75 MBH INPUT, 20' LENGTH ALUMINIZED TUBE, W/STANDARD ALUMINUM AND ONE–SIDE REFLECTORS. CONTROLLED BY T'STAT. MOUNT EMITTER TUBE @ 17' A.F.F.	120V/1ø 1.3 FLA	120#	PLAN M–1.1 28/M	T'STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	
RH–11	INFRARED HEATER	RECEIVING	DETROIT RADIANT HL3	TWO–STAGE INFRARED TUBE HEATER, 50–75 MBH INPUT, 20' LENGTH ALUMINIZED TUBE W/STANDARD ALUMINUM AND ONE–SIDE REFLECTORS. CONTROLLED BY T'STAT. MOUNTING HEIGHT PER DETAIL.	120V/1ø 1.3 FLA	120#	PLAN M–1.1 37/M	T'STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	
RH–12, 13	INFRARED HEATER	RECEIVING	DETROIT RADIANT HL3	TWO–STAGE INFRARED TUBE HEATER, 82–125 MBH INPUT, 40' LENGTH ALUMINIZED TUBE W/STANDARD ALUMINUM AND ONE–SIDE REFLECTORS. CONTROLLED BY T'STAT. MOUNTING HEIGHT PER DETAIL.	120V/1ø 1.3 FLA	190#	PLAN M–1.1 37/M	T'STAT W/LOCKING COVER PROVIDED & INSTALLED BY M.C.	

GENERAL NOTES:
– M.C. TO PROVIDE CONTROL WIRE AND CONDUIT FOR T'STAT. – T'STAT TO BE MOUNTED @+78"A.F.F. UNLESS NOTED OTHERWISE.

CEILING FAN SCHEDULE – S.O.I.C./S.I.C.

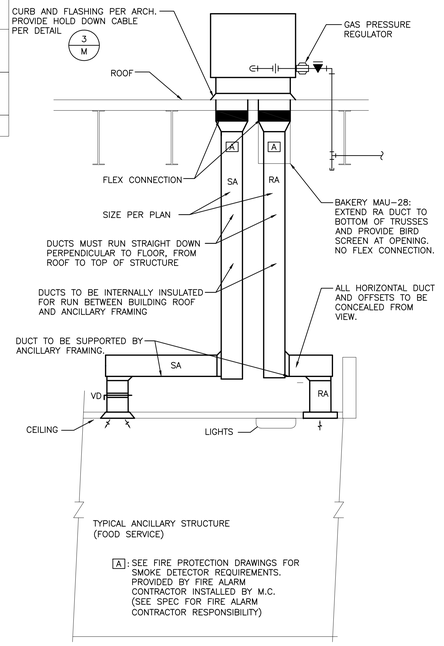
SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
CF–1~4	CEILING FAN	MAIN SALES	SERCO	14' DIAMETER DIRECT DRIVE HIGH VOLUME LOW SPEED CEILING FAN. PROVIDED WITH MOUNTING HARDWARE, DC BRUSHLESS MOTOR, VFD ASSEMBLY AND FAN CONTROL STATION.	208V/1ø 1 HP	191#	PLAN M–1.1	SEE ARCHITECTURAL PLANS FOR MOUNTING DETAILS. CONTROL SWITCH LOCATED IN OFFICE.	①
CF–5,6	CEILING FAN	TIRE INSTALL	SERCO	10' DIAMETER HIGH VOLUME LOW SPEED CEILING FAN.	208V/1ø 1 HP	128#	PLAN M–1.1 PLAN M–2.1	SEE ARCHITECTURAL PLANS FOR MOUNTING DETAILS. CONTROL SWITCH LOCATED ON WALL.	①
CF–7~15	CEILING FAN	POS COOLER	AIRIUS AIR PEAR A–25–SP	DESTRATIFICATION FAN. 547 CFM. ETL LISTED.	120V/1ø 0.32 FLA 35 WATTS	9#	PLAN M–1.1	SECURE TO ROOF STRUCTURE PER MFR'S INSTALLATION INSTRUCTION.	③

① (S.I.C.) EQUIPMENT FURNISHED BY M.B.S. ② (S.O.I.C.) ③ (S.I.C.)

HVAC EQUIPMENT RESPONSIBILITIES

ROOF TOP UNITS	CURB	SET/HANG UNIT	ELECTRICAL	NATURAL GAS	REFRIGERANT PIPING	CONDENSATE PIPING	DUCTWORK[5]	T'STAT/SENSORS	LOW VOLTAGE
AC–3 (FOOD SERVICE)	SPAN[6]	GC	GC[1]	GC[1,4]	NA	GC[1]	RC[2] (DUCTED)	RC	RC
AC–7~16 (MAIN SALES)	SPAN[6]	GC	GC[1]	GC[1,4]	NA	GC[1]	RC[2] (DUCT PACKAGE)	RC	RC
AC–32 (LOCKER ROOM)	SPAN[6]	GC	GC[1]	GC[1,4]	NA	GC[1]	RC[2] (DUCT PACKAGE)	RC	RC
AC–35 (TIRE INSTALL)	SPAN[6]	GC	GC[1]	GC[1,4]	NA	GC[1]	RC[2] (DUCTED)	RC	RC
MAU–28 (BAKERY)	SPAN[6]	GC	GC[1]	GC[1,4]	NA	GC[1]	RC[2] (DUCTED)	RC	RC
ROTISSERIE MAKE–UP AIR UNIT									
MAU–37 (ROTISSERIE)	SPAN[6]	GC	GC[1]	GC[1,4]	NA	GC[1]	GC	GC	GC
SPLIT SYSTEMS									
CU–# (WELLNESS/OPTICAL)	NA	RC	GC[1]	NA	RC	RC	NA	NA	NA
BDU–# (BRANCH DISTRIBUTION)	NA	RC	RC	NA	RC	RC	NA	NA	RC
IU–# (AIR HANDLERS)	NA	RC	RC	NA	RC	RC	NA	RC	RC
RELIEF DUCT/GRILLES	NA	NA	NA	NA	NA	NA	GC	NA	NA
EXHAUST/TRANSFER FANS									
KEF # (KITCHEN AREAS)	SPAN	GC	GC	NA	NA	NA	GC	GC	GC
EF # (GEN EXHAUST)	SPAN	GC	GC	NA	NA	NA	GC	GC	GC
TF # (TRANSFER)	NA	GC	GC	NA	NA	NA	GC	GC	NA
GV # (GRAVITY VENTILATOR)	SPAN	GC	NA	NA	NA	NA	GC	GC	NA
CF # (CEILING FANS)	NA	GC	GC	NA	NA	NA	GC	GC	NA
UNIT HEATER/RADIANT HEATER									
UH #	NA	GC	GC	GC	NA	NA	GC	VENDOR/GC[3]	GC
RH #	NA	GC	GC	GC	NA	NA	GC	GC	GC
AIR CURTAINS									
VESTIBULE	NA	GC	GC	NA	NA	NA	NA	VENDOR/GC	NA
BREAD DOOR	NA	VENDOR	GC	NA	NA	NA	NA	GC	GC
ENTRY/EXIT(GAS FIRED)	NA	GC	GC	NA	NA	NA	GC	GC	NA
ENTRY/EXIT(ELECTRIC HEAT)	NA	VENDOR	GC	GC	NA	NA	NA	GC	NA
HOODS/SUPPLY PLENUMS									
FOOD SERVICE	NA	GC	NA	NA	NA	NA	NA	NA	NA
ROTISSERIE	NA	RC	NA	NA	NA	NA	NA	NA	NA
ALL OTHERS	NA	GC	NA	NA	NA	NA	NA	NA	NA
BAKERY OVEN SUPPLY PLENUMS	NA	RC	NA	NA	NA	NA	NA	NA	NA

1. – FINAL CONNECTIONS TO UNIT BY RC.
– START–UP, TESTING, BALANCING AND COMMISSIONING OF ALL UNITS BY RC.
– INITIAL FILTER CHANGE BY RC.
2. – SPAN TO INSTALL DUCT DROP IN CURB PRIOR TO CONTRACTOR SETTING UNIT.
3. – T'STAT AND LOCKING ENCLOSURE PROVIDED BY EQUIPMENT MANUFACTURER; INSTALLED BY M.C.
4. – GAS PRESSURE REGULATOR PROVIDED BY GC.
5. – INSULATION TO BE PROVIDED AND INSTALLED BY RESPONSIBLE DUCTWORK CONTRACTOR WHERE REQ'D PER PLANS & SPEC SECTION 230700.
6. – HOLD DOWN CABLES PROVIDED AND INSTALLED BY SPAN (MBS).



FOOD SERVICE AC UNIT & DUCT ELEVATION DETAIL 010
SCALE: NONE REV: SI/01–25/Master

CAPTIVEAIRE
MODEL 7830ND 187 " X 78 " X 30" TYPE I WITH FILTERS & LIGHTS HOOD–18GA. STAINLESS STEEL

NOTE: OBTAIN APPROVAL FROM ARCHITECT FOR ANY OFFSETS REQUIRED IN DUCTWORK PRIOR TO ORDERING.

CFM
AIR FLOW FORMULA (PER UL LISTING):
Q = 180xL = 180(15.6FT) = 2805 CFM MIN.

DUCTS
DUCT SIZE: 18"ø = 1.77 SQUARE FEET
NUMBER OF DUCTS: 1

STATIC PRESSURE & EXHAUST FAN
EXHAUST FAN CFM: 2805 CFM
EXHAUST DUCT VELOCITY: 1585 FPM
STATIC PRESSURE:

DUCT	0.12"
HOOD RISER	0.87"
GREASE FILTER	0.18"
20% SF	0.23"
TOTAL S.P.	1.40"

MAKE–UP AIR
SUPPLIED FROM MAU–1 & MAIN SALES AC UNITS.

CLEARANCES (PER NFPA 96)
HOOD OVERHANG BEYOND EQUIPMENT:

	CLEARANCE
FRONT	6"
SIDES	6"

DISTANCE FROM OUTSIDE EDGE OF HOOD TO SURROUNDING MATERIALS:

	MATERIAL	CLEARANCE
FRONT	NON–COMBUSTIBLE	0"
SIDES	NON–COMBUSTIBLE	0"
BACK	LIMITED COMBUSTIBLE	3"
TOP	NON–COMBUSTIBLE	0"

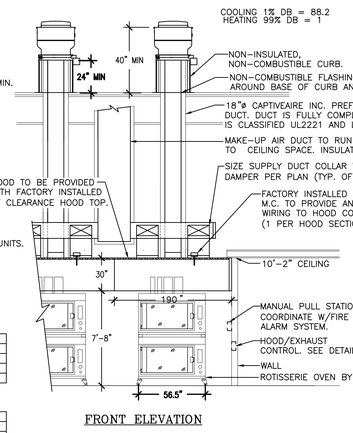
DISTANCE FROM GREASE DUCT AND ROOF PENETRATION TO SURROUNDING MATERIALS:

MATERIAL	CLEARANCE
NON–COMBUSTIBLE	0"
COMBUSTIBLE	3/4"

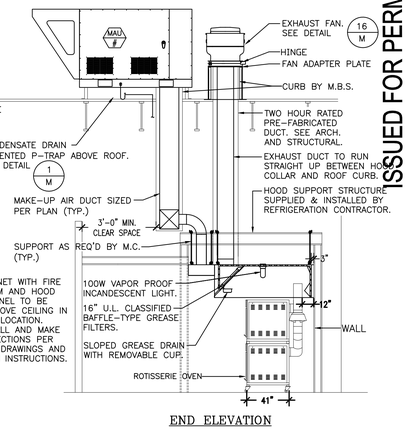
FILTERS
FILTER SIZE: 20"X16"=1.73 SQ. FT.(USABLE AREA)
NUMBER OF FILTERS: 11
TOTAL FILTER AREA: 11 X 1.73 = 19.03 SQ. FT.(USABLE AREA)
AIR VELOCITY: 2805 CFM / 19.03SQ. FT. = 147 FPM

NOTES:
- ALL REQUIRED OFFSETS FOR FLUE AND EXHAUST DUCTS BETWEEN OVEN AND ROOF PENETRATION TO BE MADE ABOVE FINISHED CEILING.
- HOOD SHALL BE INSTALLED COMPLETE WITH FIRE SUPPRESSION SYSTEM AND SOLENOID VALVE AT FUEL LINE OR ELECTRICAL POWER SUPPLY OF EQUIPMENT. AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE INTERCONNECTED TO THE FUEL OR POWER SOURCE & ARRANGED TO AUTOMATICALLY SHUTOFF EQUIPMENT UNDER THE HOOD WHEN THE SYSTEM IS ACTUATED. SHUTOFF VALVES OR SWITCHES SHALL BE OF A TYPE THAT REQUIRES MANUAL OPERATION TO RESET. FIRE SUPPRESSION SYSTEM, INSTALLED BY G.C., SHALL BE CAPABLE OF SENDING AN ALARM SIGNAL TO THE MONITORING SERVICE WHEN ACTUATED. ALL SOLENOID VALVES, FUEL SHUTOFFS & EQUIPMENT INTERLOCKS AND SWITCHES SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. FIRE SUPPRESSION SYSTEM SHALL NOT RUN HORIZONTALLY WITHIN EXPOSED HOOD CAPTURE CAVITY. ALL FIRE SUPPRESSION SYSTEM CONNECTIONS AND ASSOCIATED WIRING (SHUNT TRIP BREAKERS OR RELAYS) ARE THE RESPONSIBILITY OF MECHANICAL CONTRACTOR.

ETL LISTING – # 3054804–001



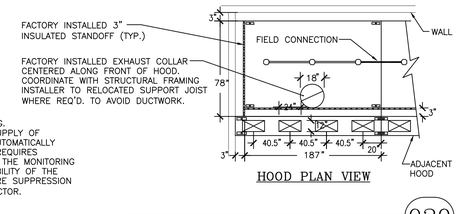
FRONT ELEVATION



END ELEVATION

NOTE:
- UTILITY CABINET WITH FIRE TANK SYSTEM AND HOOD CONTROL PANEL TO BE MOUNTED ABOVE CEILING IN ACCESSIBLE LOCATION.
- GC TO INSTALL AND MAKE FINAL CONNECTIONS PER CAPTIVEAIRE DRAWINGS AND INSTALLATION INSTRUCTIONS.

CAPTIVE–AIRE HOODS ARE BUILT IN COMPLIANCE WITH
NFPA #96
NSF
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804–001



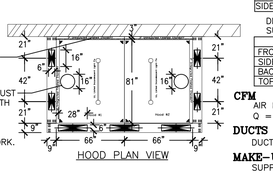
HOOD PLAN VIEW

15'–7" Rotisserie Oven Hood & Exhaust Fan Detail 020
SCALE: NONE REV: SI/02–25/Master

ETL LISTING – # 3054804–001

MAKE: CAPTIVE AIRE
MODEL: 6630ND–2–PSP–B (2)6'–9" X 5'–3" X 30" TYPE I HOOD–18GA. SS

NOTE:
SUPPLY CLEANOUTS AT ELBOWS & EVERY 12' OF HORIZONTAL DUCT.
1" LAYER OF INSULATION FACTORY INSTALLED IN 3" END STANDOFF.
FACTORY INSTALLED EXHAUST COLLAR. COORDINATE WITH STRUCTURAL FRAMING INSTALLER TO RELOCATE SUPPORT JOIST WHERE REQ'D. TO AVOID DUCTWORK. (TYP. OF 2)



HOOD PLAN VIEW

CLEARANCES
HOOD OVERHANG BEYOND EQUIPMENT:

	CLEARANCE
FRONT	6"
SIDES	6"

DISTANCE FROM OUTSIDE EDGE OF HOOD TO SURROUNDING MATERIALS:

	MATERIAL	CLEARANCE
FRONT	NON–COMBUSTIBLE	0"
SIDES	NON–COMBUSTIBLE	0"
BACK	LIMITED COMBUSTIBLE	3"
TOP	OPEN TO WAREHOUSE	18"

CFM
AIR FLOW FORMULA (PER UL LISTING): (TYP. OF 2)
Q = 200xL = 200(6.5 FT) = 1300 CFM MIN.

DUCTS
DUCT SIZE: 16"ø = 1.40 SQUARE FEET

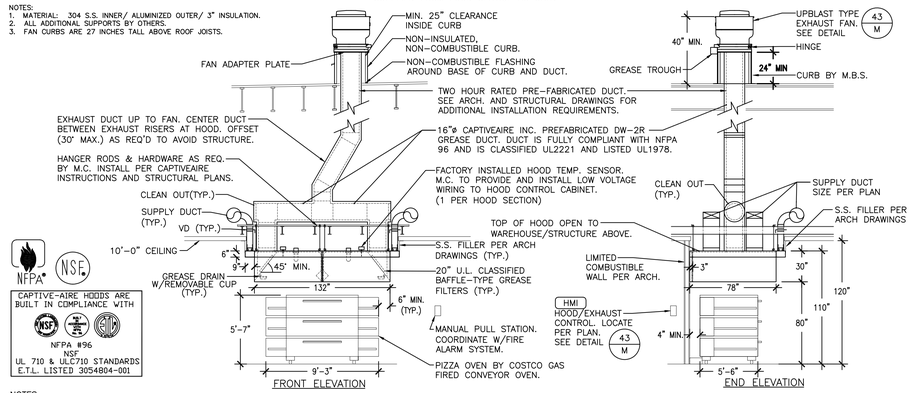
MAKE–UP AIR
SUPPLIED FROM FOOD SERVICE AC UNIT.

FILTERS
FILTER CONFIGURATION AND AIR VELOCITY FOR HOOD: (TYP. OF 2)
FILTER SIZE: 20"H x 20"W = 2.78 SQ. FT.(2.23 SF FA)
NUMBER OF FILTERS: 4
TOTAL FILTER AREA: 4 x 2.23 SQ. FT. = 8.92 SQ. FT.
AIR VELOCITY: 1500 CFM / 8.92 SQ. FT. = 168 FPM

STATIC PRESSURE & EXHAUST FAN
EXHAUST FAN CFM: 3000 CFM
EXHAUST DUCT VELOCITY TO FAN: 2143 FPM
STATIC PRESSURE:

GREASE FILTER	0.24"
HOOD RISER	0.30"
16"ø DUCTS & FITTINGS	0.19"
CONVERGING TEE	0.36"
16"ø DUCTS	0.07"
20% SF	0.23"
TOTAL S.P.	1.39"

NOTES:
1. MATERIAL: 304 S.S. INNER/ ALUMINIZED OUTER/ 3" INSULATION.
2. ALL ADDITIONAL SUPPORTS BY OTHERS.
3. FAN CURBS ARE 27 INCHES TALL ABOVE ROOF JOISTS.



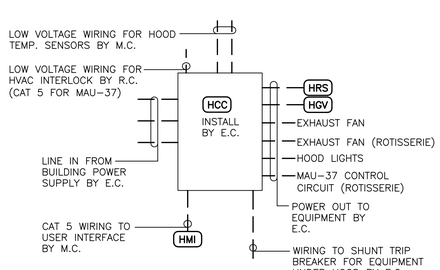
FRONT ELEVATION

END ELEVATION

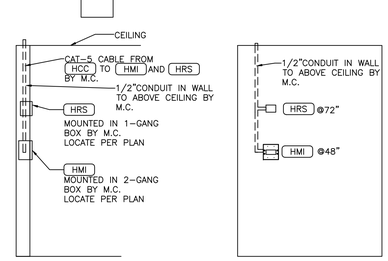
NOTES:
- HOOD SHALL BE INSTALLED COMPLETE WITH FIRE SUPPRESSION SYSTEM AND SOLENOID VALVE AT FUEL LINE OR ELECTRICAL POWER SUPPLY OF EQUIPMENT. AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE INTERCONNECTED TO THE FUEL SOURCE & ARRANGED TO AUTOMATICALLY SHUTOFF EQUIPMENT UNDER THE HOOD AND ANY MAKE UP AIR WHEN THE SYSTEM IS ACTUATED. SHUTOFF VALVES OR SWITCHES SHALL BE OF A TYPE THAT REQUIRES MANUAL OPERATION TO RESET. FIRE SUPPRESSION SYSTEM, INSTALLED BY G.C., SHALL BE CAPABLE OF SENDING AN ALARM SIGNAL TO THE MONITORING SERVICE WHEN ACTUATED. ALL SOLENOID VALVES, FUEL SHUTOFFS & EQUIPMENT INTERLOCKS AND SWITCHES SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. FIRE SUPPRESSION SYSTEM SHALL NOT RUN HORIZONTALLY WITHIN EXPOSED HOOD CAPTURE CAVITY. G.C. TO CONTACT APPROVED SUBCONTRACTORS FOR FIRE SUPPRESSION SYSTEM INSTALLATION. FIRE CONTRACTOR TO PROVIDE REVIEW AND APPROVAL OF THE FIRE SUPPRESSION SYSTEM BY THE FIRE DEPARTMENT.

CAPTIVE–AIRE HOODS ARE BUILT IN COMPLIANCE WITH
NFPA #96
NSF
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804–001

PIZZA OVEN HOOD H–3 & EXHAUST FAN DETAIL 019
SCALE: NONE REV: EP/10–24/24–000



HOOD CONTROL SYSTEM SCHEMATIC 041
SCALE: NONE REV: SI/11–25/Master



HOOD CONTROL USER INTERFACE DETAIL 043
SCALE: NONE REV: EP/10–24/24–000

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

ISSUED FOR PERMIT

STATE OF MISSOURI
PAUL K. RYAN
NUMBER PE–2024036519
PROFESSIONAL ENGINEER
12/23/2025

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA 98057
TELEPHONE: 425–970–3763
FAX: 425–970–3766

T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE
#---

TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 06/04/24

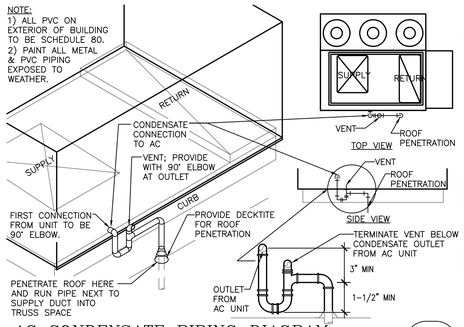
MECHANICAL SCHEDULES & DETAILS

M-0.2

K:\2025\340–349\25–346 – Costco – Lee's Summit – MO – New_345M–0.2.dwg, 12/23/2025 12:01:42 PM, jseferian
12/23/2025 11:53:16 AM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt

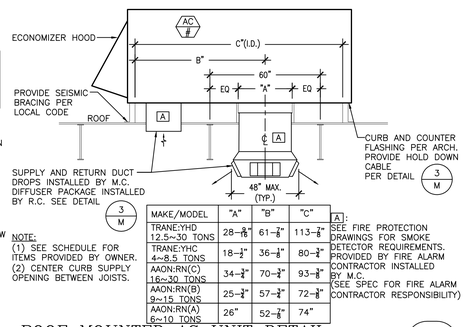
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:54

ISSUED FOR PERMIT



AC CONDENSATE PIPING DIAGRAM 001

SCALE: NONE REV: SI/01-25/Master



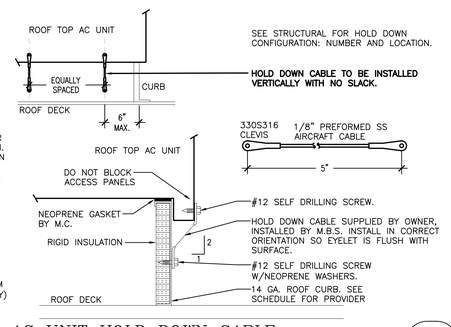
MAKE/MODEL	"A"	"B"	"C"
TRANE:YHD 12.5~30 TONS	28-9/16	61-7/8	113-7/8
TRANE:YHC 4~8.5 TONS	18-1/2	36-1/8	80-3/8
AAON:RN(C) 16~30 TONS	34-3/4	70-1/4	93-3/8
AAON:RN(B) 9~15 TONS	25-3/4	57-1/2	72-3/8
AAON:RN(A) 6~10 TONS	26"	52-7/8	74"

NOTE:
(1) SEE SCHEDULE FOR ITEMS PROVIDED BY OWNER.
(2) CENTER CURB SUPPLY OPENING BETWEEN JOISTS.

[A]: SEE FIRE PROTECTION DRAWINGS FOR SMOKE DETECTOR REQUIREMENTS. PROVIDED BY FIRE ALARM CONTRACTOR INSTALLED BY M.C. (SEE SPEC FOR FIRE ALARM CONTRACTOR RESPONSIBILITY)

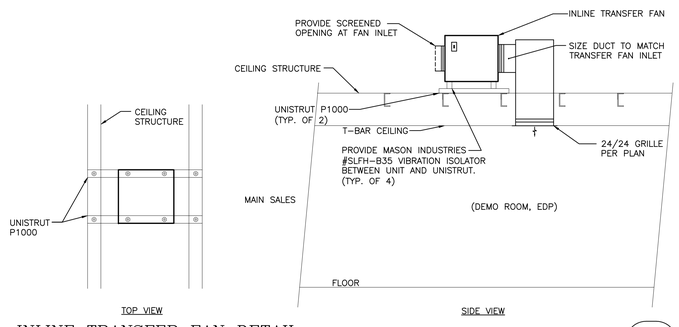
ROOF MOUNTED AC UNIT DETAIL 002

SCALE: NONE REV: SI/01-25/Master



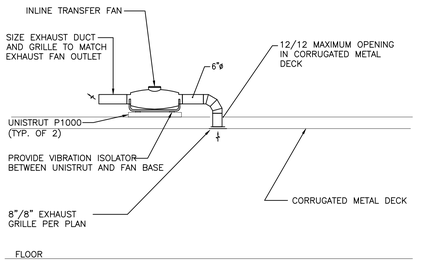
AC UNIT HOLD DOWN CABLE 003

SCALE: NONE REV: SI/12-24/Master



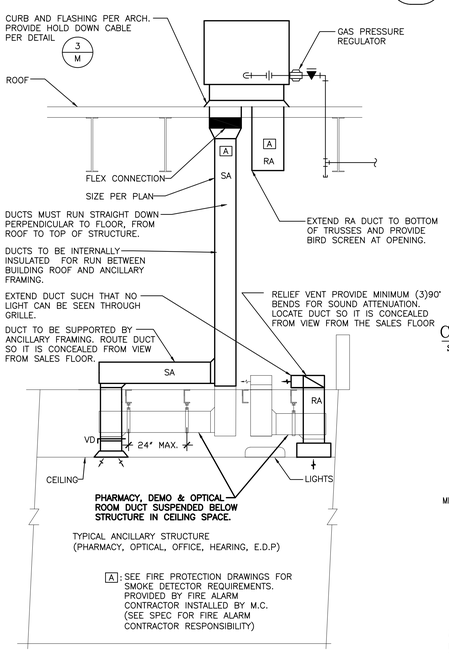
INLINE TRANSFER FAN DETAIL 029

SCALE: NONE REV: SI/01-25/Master



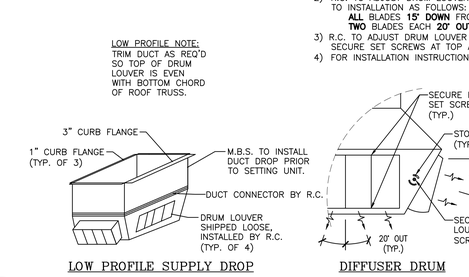
INLINE MPU ROOM TRANSFER FAN 105

SCALE: NONE REV: EP/11-24/24-000



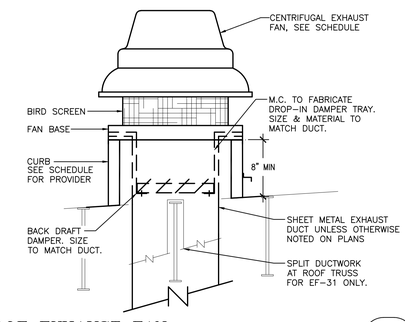
TYPICAL DUCTED AC UNIT & DUCT ELEVATION DETAIL 011

SCALE: NONE REV: SI/12-24/Master



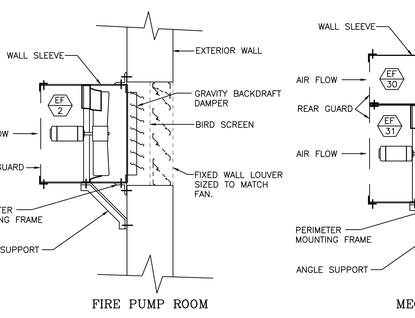
CEILING EXHAUST FAN 013

SCALE: NONE REV: SI/12-24/24-000



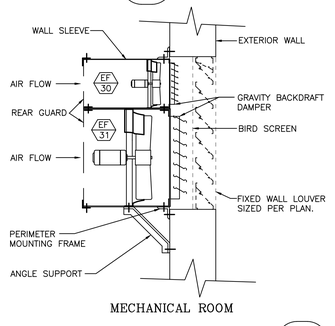
ROOF EXHAUST FAN 015

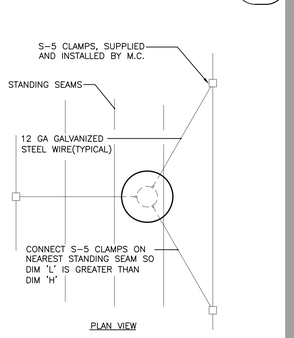
SCALE: NONE REV: SI/01-25/Master

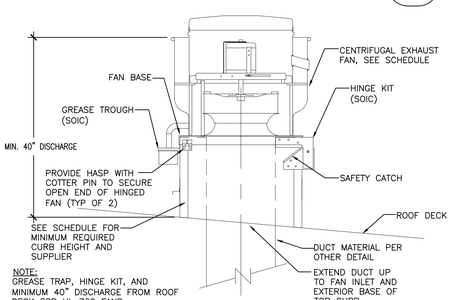


WALL EXHAUST FAN 047

SCALE: NONE REV: EP/10-24/24-000

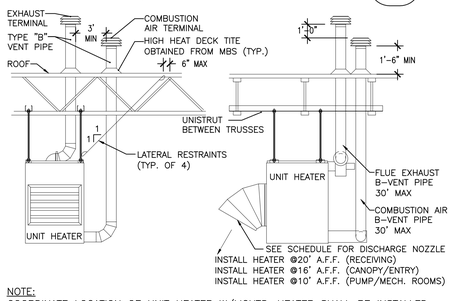






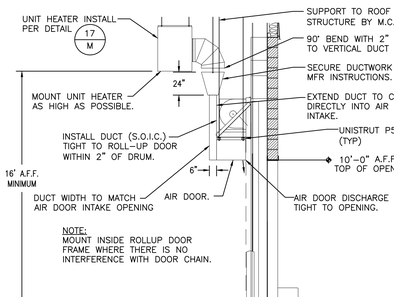
ROOF EXHAUST FAN 016

SCALE: NONE REV: TS/12-24/Master



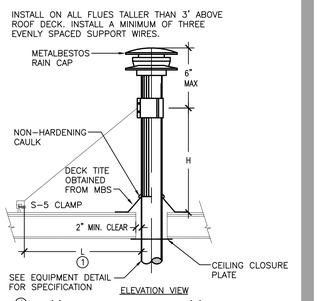
GAS UNIT HEATER 017

SCALE: NONE REV: SI/11-25/Master



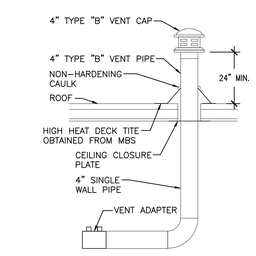
GAS FIRED AIR DOOR DETAIL 018

SCALE: NONE REV: SI/11-25/Master



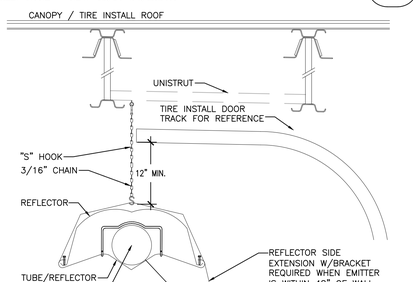
FLUE & VENT TIE DOWN DETAIL 023

SCALE: NONE REV: EP/10-24/24-000



CANOPY: PAINT VENT PIPE AND CAP TO MATCH BUILDING EXTERIOR.

NOTE: SEE MANUFACTURER INSTALLATION INSTRUCTIONS FOR WIRING TWO HEATERS TO A SINGLE THERMOSTAT AND TO VERIFY CLEARANCE TO COMBUSTIBLE MATERIALS.

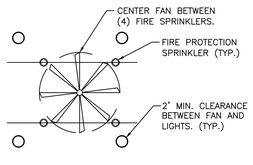


CANOPY/TIRE INSTALL INFRARED HEATER DETAIL 028

SCALE: NONE REV: JV/12-25/25-765

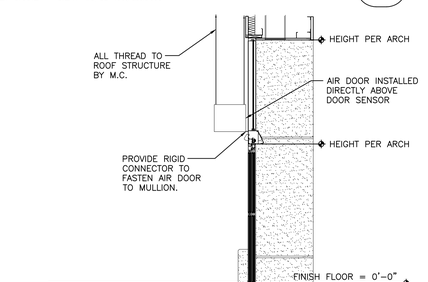
NOTES:
- FANS 6'+ DIAMETER TO BE CENTERED BETWEEN (4) ADJACENT FIRE SPRINKLERS.
- SEE ARCH AND FP PLANS FOR MOUNTING INSTRUCTIONS AND REQ'D INTERLOCKS.

CLEARANCES:
- MIN. 2X DIAMETER BETWEEN FAN EDGE AND SELF CHECKOUT KIOSKS.
- MIN. 1X DIAMETER BETWEEN FAN EDGE AND AC UNIT SUPPLY DIFFUSER PACKAGE.
- MIN. 2'-0" SEPARATION BETWEEN LIGHTS, STRUCTURE, CONDUIT, ETC.
- MIN. 3'-0" VERTICAL CLEARANCE BETWEEN FAN AND NEAREST SPRINKLER DEFLECTOR.



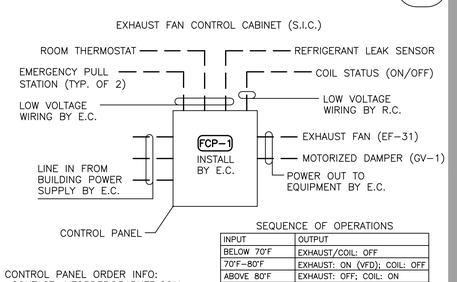
HVLS CEILING FAN PLACEMENT 064

SCALE: NONE REV: EP/11-24/24-000



CANOPY AIR DOOR DETAIL 065

SCALE: NONE REV: EP/10-24/24-000



SEQUENCE OF OPERATIONS

INPUT	OUTPUT
BELOW 70°F	EXHAUST/COIL: OFF
70°F~80°F	EXHAUST: ON (VFD); COIL: OFF
ABOVE 80°F	EXHAUST: OFF; COIL: ON
BREAK GLASS	EXHAUST: ON (100%)
LEAK DETECTION	EXHAUST: ON (100%)
NOTE: LOUVERS OPEN 100% WHEN EXHAUST ON.	

CONTROL PANEL ORDER INFO:
CONTACT: MTORDER@PARKER.COM
REFERENCE: PART# 963-0185
LEAD TIME: 4-6 WEEKS

MECHANICAL ROOM FAN CONTROL 080

SCALE: NONE REV: EP/11-24/24-000

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

STATE OF MISSOURI
PAUL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA 98057
PHONE: 425-970-3750
FAX: 425-970-3756

©T.E. Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without written permission in writing from T.E. Inc.

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE

#___

TEI #: 25-346
PM: CWC
CHECKED BY: PKR/ANT
ISSUED: 12/02/20

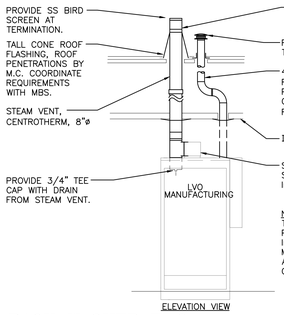
MECHANICAL DETAILS

M-0.3

12/23/2025 11:53:16 AM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SKA.rvt
K:\2025\340-349\25-346 - Costco - Lee's Summit - MO - New_346M-0.3.dwg, 12/23/2025 12:01:44 PM, jseferian

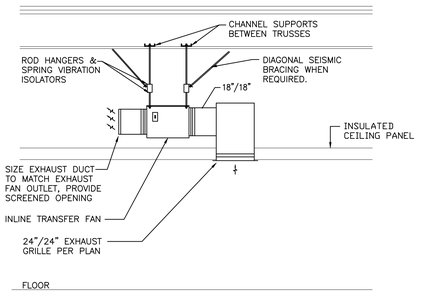
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 4:03:54

ISSUED FOR PERMIT



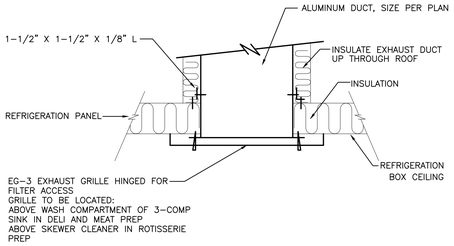
RACK WASHER E-6 — 021

SCALE: NONE REV: JV/01-25/Master



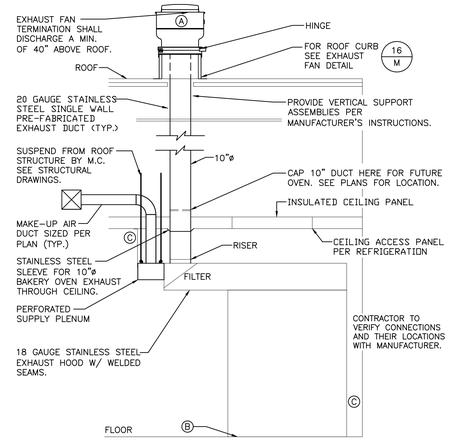
INLINE BAKERY TRANSFER FAN DETAIL — 024

SCALE: NONE REV: JV/08-25/Master



DUCT THRU MEAT/DELI CEILING — 025

SCALE: NONE REV: EP/10-24/24-000

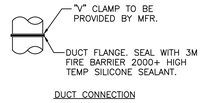


NOTES:

Ⓐ EXHAUST FAN CONTROLLED BY OVEN.

Ⓑ PROVIDE 4" STAINLESS STEEL BASE SHOE W/ BEVELED BOTTOM EDGE ALONG THE BOTTOM OF PROOF BOX THAT COMPLIES WITH LOCAL HEALTH CODES.

Ⓒ PROVIDE STAINLESS STEEL CLOSURE PANEL AT OVEN SIDE OF PROOF BOX, AT REAR OF PROOF BOX AND PSP TO CEILING



DUCT CONNECTION

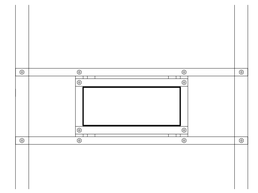
NOTES:

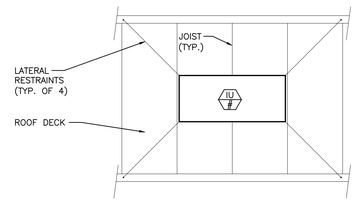
DUCTWORK SHALL RUN STRAIGHT FROM EQUIPMENT TO ARCHITECTURAL FINISH WITH NO OFFSETS. MAKE OFFSETS WITH FITTINGS ABOVE CEILINGS, BEHIND WALLS OR IN ROOF STRUCTURE WITH AS SMALL AN ANGLE OF OFFSET AS POSSIBLE. G.C. TO COORDINATE THE LOCATION OF SPRINKLER HEADS SO THAT THEY ARE NOT IN CONFLICT WITH THE VENT DUCTWORK.

EXHAUST DUCT TO BE FACTORY BUILT BY CAPTIVEAIRE. SEE SPEC 233800 FOR ORDERING.
CONTACT: ATTN: COSTCO PROJECT MANAGER @ (425)212-5996 OR REG85@CAPTIVEAIRE.COM

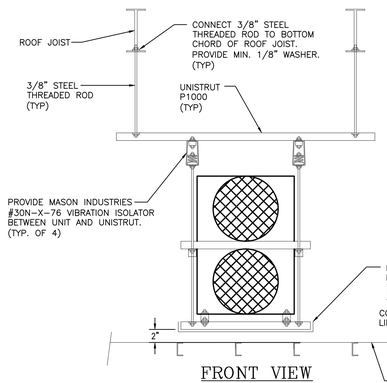
OVEN DETAIL E-7 — 022

SCALE: NONE REV: TS/12-24/24-000

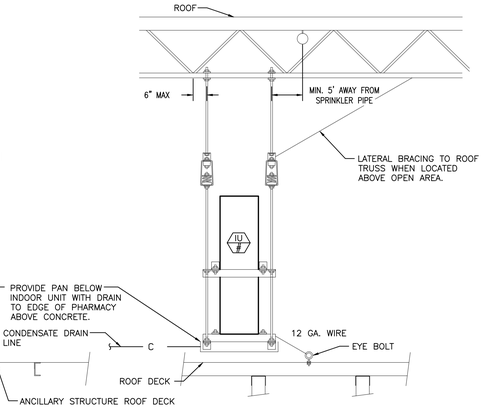

TOP VIEW



PLAN VIEW



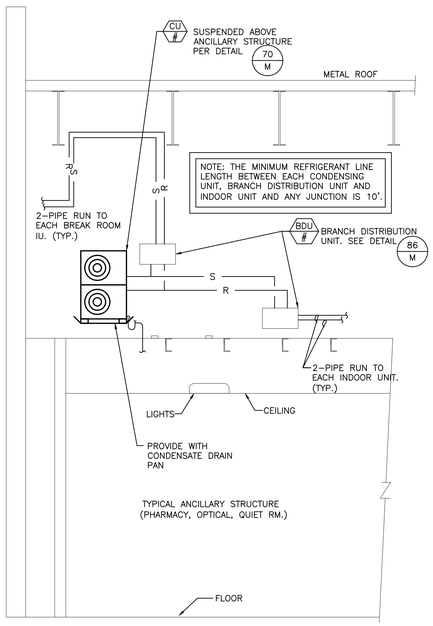
FRONT VIEW



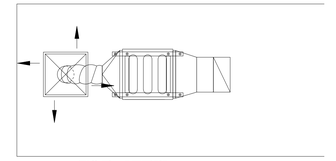
SIDE VIEW

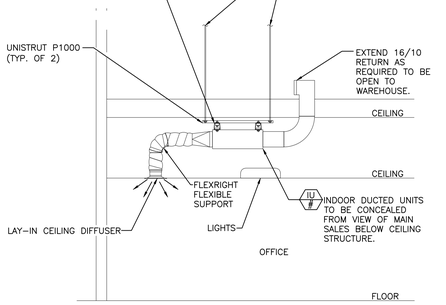
CONDENSING UNIT MOUNTING DETAIL — 070

SCALE: NONE REV: SI/11-25/Master



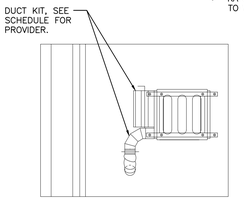
NOTES:
- DIFFUSER AND FLEXIBLE DUCT ASSEMBLY PROVIDED BY OWNER
- SUPPORT PROVIDED BY CONTRACTOR
- WASHABLE FILTER, FLEXRIGHT AND TRANSITION DUCT PROVIDED WITH UNIT


TOP VIEW

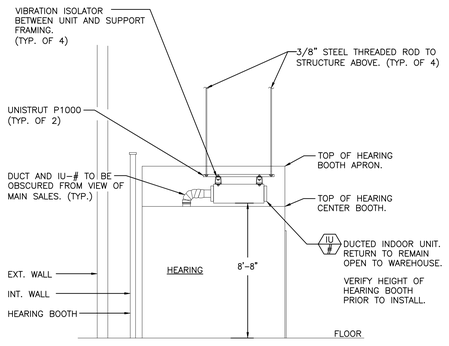


SIDE VIEW

NOTES:
- NO MECHANICAL EQUIPMENT TO BE SUPPORTED BY KIOSK.
- RA OPENING TO REMAIN OPEN TO WAREHOUSE.



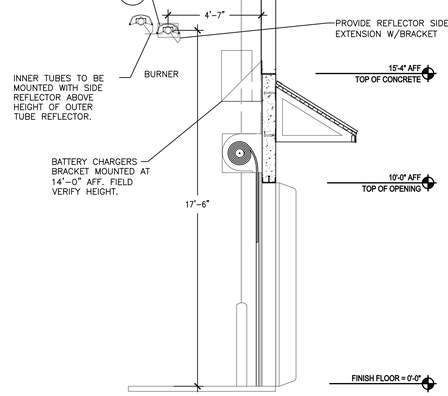
TOP VIEW



SIDE VIEW

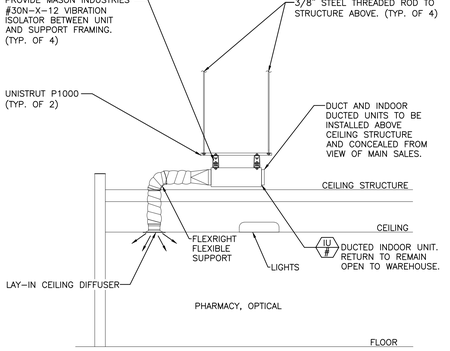
HEARING CENTER DUCT SECTION — 027

SCALE: NONE REV: EP/10-24/24-000



RECEIVING RADIANT HEATER DETAIL — 037

SCALE: NONE REV: JR/06-25/Master



SIDE VIEW

DUCTED UNIT ELEVATION — 082

SCALE: NONE REV: EP/11-24/24-000

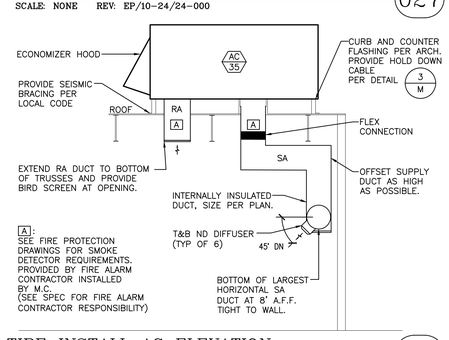
MULTI-SPLIT ELEVATION DIAGRAM — 084

SCALE: NONE REV: EP/11-24/24-000

SIDE VIEW

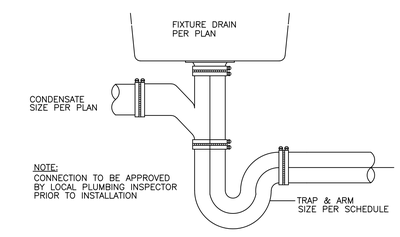
DUCTED (IU-#) MOUNTING DETAIL — 085

SCALE: NONE REV: DS/01-25/Master



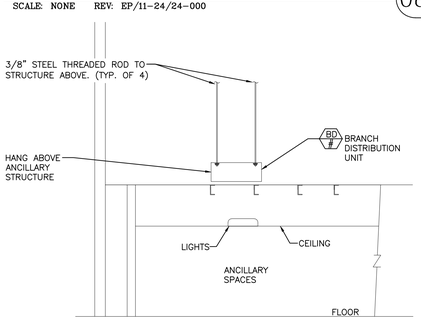
TIRE INSTALL AC ELEVATION — 009

SCALE: NONE REV: SI/12-24/Master



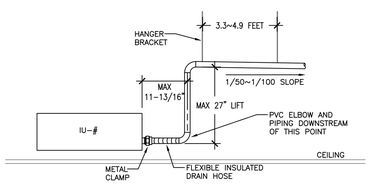
CONDENSATE CONNECTION TO DRAIN — 048

SCALE: NONE REV: SI/12-24/Master



BRANCH DISTRIBUTION UNIT — 086

SCALE: NONE REV: EP/11-24/24-000



INDOOR UNIT DRAIN DETAIL — 087

SCALE: NONE REV: EP/11-24/24-000

K:\2025\340-349\25-346 - Costco - Lee's Summit - MO - New_346M-0.4.dwg, 12/23/2025 12:01:46 PM, jseferian
C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt
12/23/2025 11:58:56 AM

PAUL K. RYAN NUMBER PE-2024036519 PROFESSIONAL ENGINEER STATE OF MISSOURI
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA 98057
PHONE: 425-970-3763
FAX: 425-970-3766

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without written permission from T.E., Inc.

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE

#

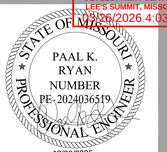
TEI #: 25-346
PM: CWC
CHECKED BY: PKR/ANT
ISSUED: 12/02/20

MECHANICAL DETAILS

M-0.4

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:54

ISSUED FOR PERMIT



DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E. Inc.

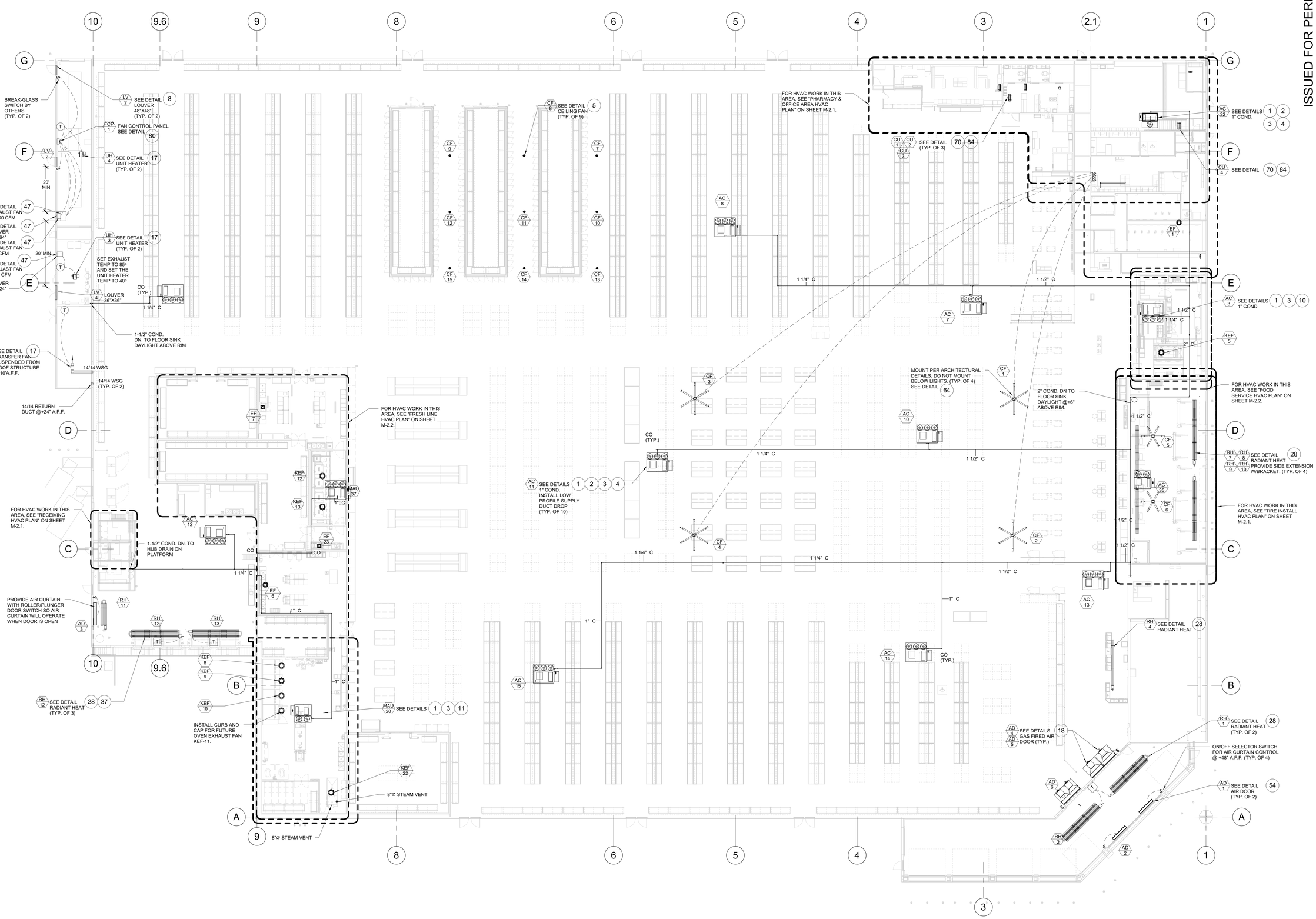
T.E., INC.
800 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#____



MAIN MECHANICAL PLAN

SCALE: 1/16" = 1'-0"

TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 06/04/24

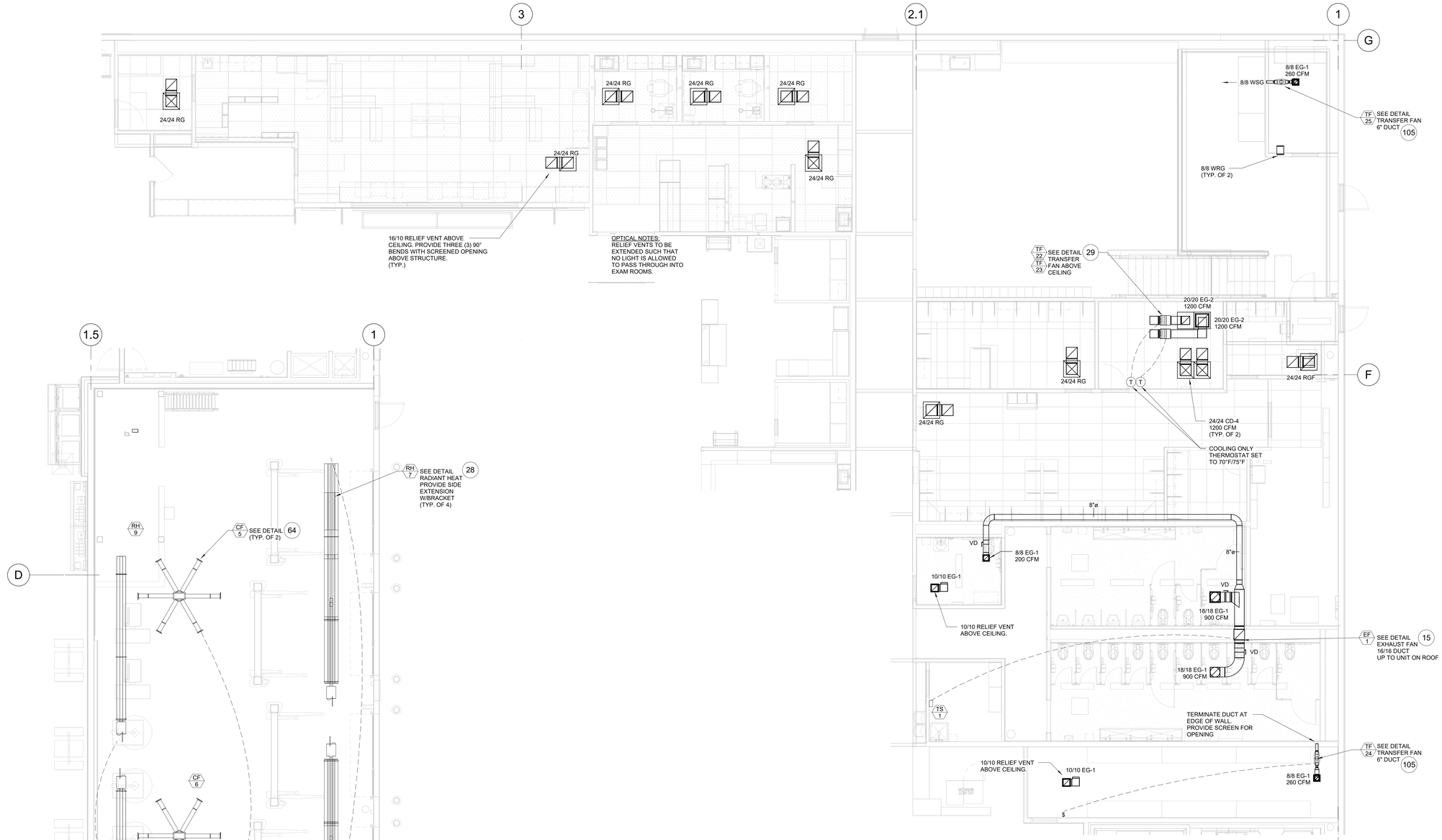
MAIN MECHANICAL PLAN

M-1.1

12/23/2025 12:04:19 PM C:\Users\jseferian\Documents_346_MP_CENTRAL_2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:54

ISSUED FOR PERMIT



PHARMACY & OFFICE AREA HVAC PLAN

SCALE: 3/16" = 1'-0"

TIRE INSTALL HVAC PLAN

SCALE: 3/16" = 1'-0"

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

	DATE	DESCRIPTION
1	11/26/25	ISSUED FOR QA
2	12/23/25	ISSUED FOR PERMIT

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without written permission of T.E., Inc.

T.E., INC.
810 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

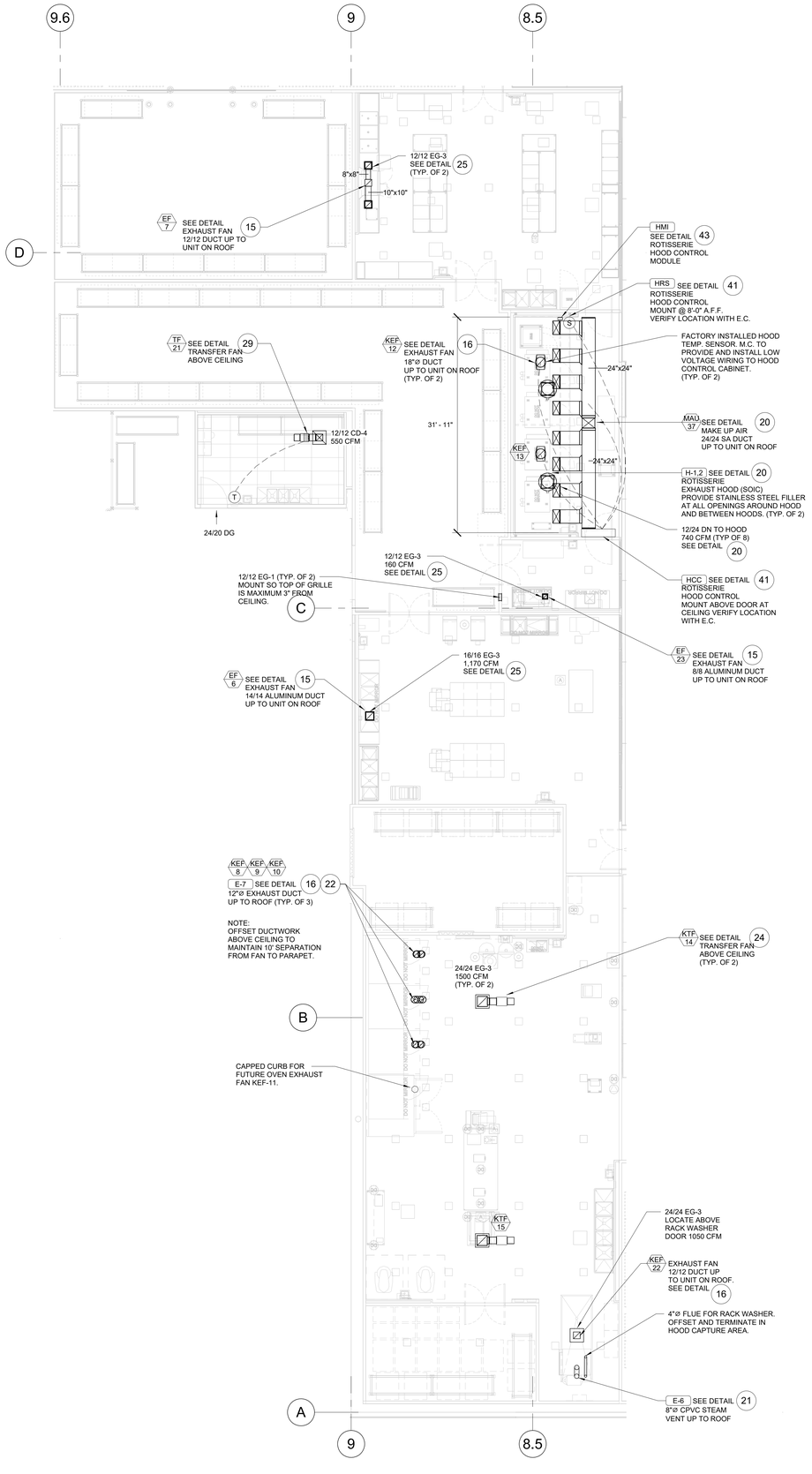
#____

TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 06/04/24

ENLARGED MECHANICAL PLANS

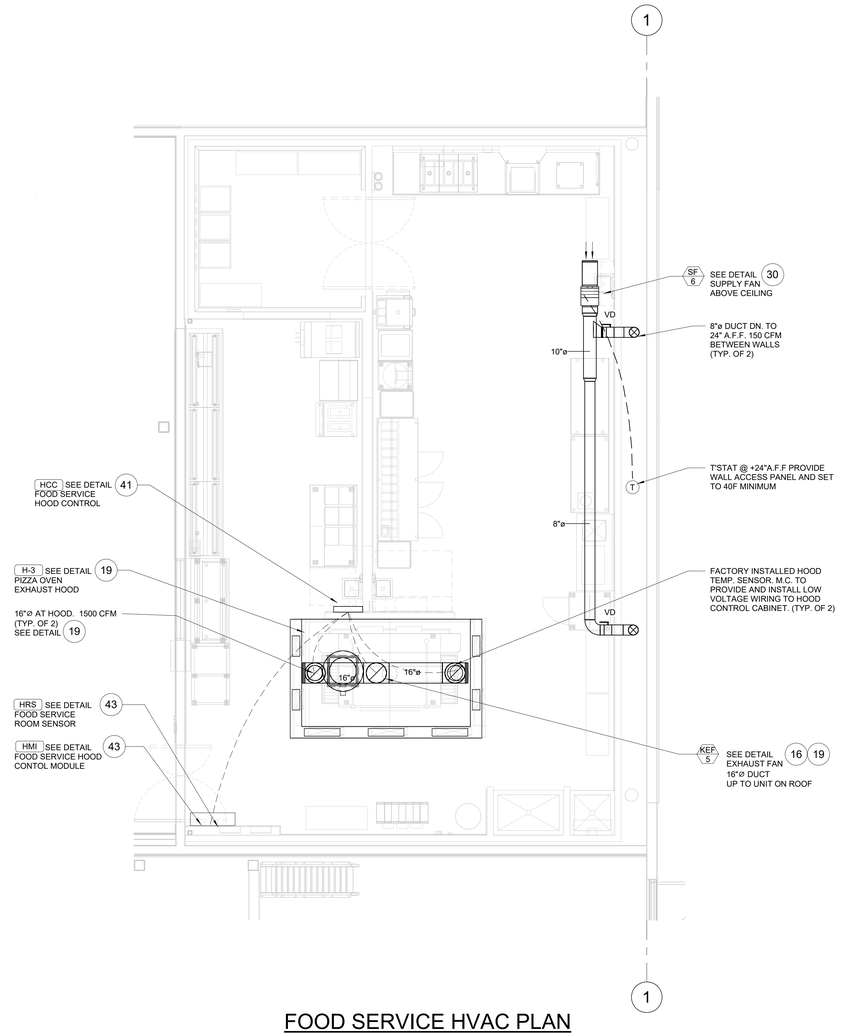
M-2.1

12/23/2025 12:04:23 PM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt



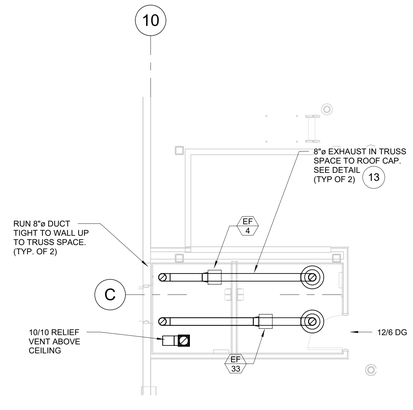
FRESH LINE HVAC PLAN

SCALE: 1/8" = 1'-0"



FOOD SERVICE HVAC PLAN

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



RECEIVING HVAC PLAN

SCALE: 3/16" = 1'-0"

ISSUED FOR PERMIT

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/26/2026 4:03:54

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425-970-7703
FAX: 425-970-3736

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without prior permission in writing from T.E., Inc.

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#___

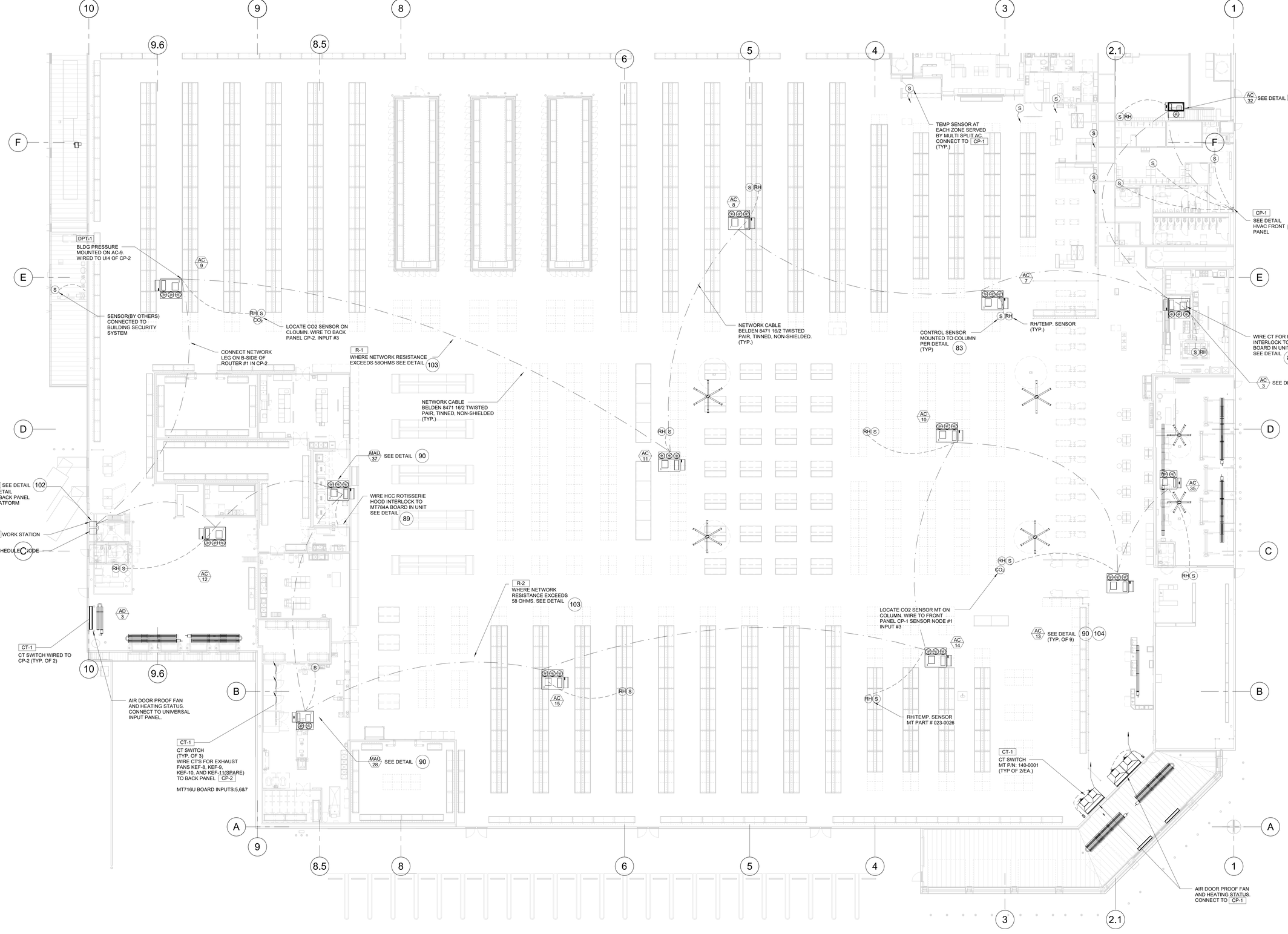
TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 06/04/24

FOOD SERVICE & FRESHLINE HVAC PLANS

M-2.2

12/23/2025 12:04:27 PM C:\Users\jseferian\Documents_346_MP_CENTRAL_2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:54



HVAC CONTROLS NETWORK DIAGRAM

SCALE: 1/16" = 1'-0"

ISSUED FOR PERMIT

STATE OF MISSOURI
PAUL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

△	DATE	DESCRIPTION
	11/26/25	ISSUED FOR QA
	12/23/25	ISSUED FOR PERMIT

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3736

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#____

TEI #: 25-346
PM: CWC
CHECKED BY: PKR/ANT
ISSUED: 02/03/21

HVAC CONTROL NETWORK

MR-1.1

12/23/2025 12:04:44 PM C:\Users\jseferian\Documents_346_MP_CENTRAL_2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:54

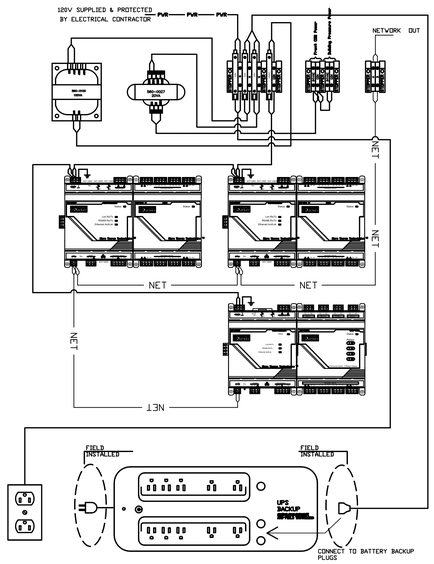
HVAC CONTROLS SCHEDULE–S.O.I.R.C.

SYMBOL	ITEM	SERVES	MFR/#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	INSTALLATION
(S)	ROOM TEMPERATURE SENSOR		MICROTHERMO 023–0327	ROOM TEMPERATURE SENSOR	24V	10#			FIELD
(SH)	ROOM HUMIDITY AND TEMPERATURE SENSOR		MICROTHERMO 023–0026	ROOM HUMIDITY AND TEMPERATURE SENSOR	24V	10#			FIELD
(OT) (OH)	OUTSIDE HUMIDITY AND TEMPERATURE SENSOR		MICROTHERMO 023–0031	OUTSIDE HUMIDITY AND TEMPERATURE SENSOR	24V	10#			FIELD
(SAT)	SUPPLY AIR TEMPERATURE SENSOR		AAON	SUPPLY AIR TEMPERATURE SENSOR	24V	10#			FIELD
(RAT)	RETURN AIR TEMPERATURE SENSOR		AAON	RETURN AIR TEMPERATURE SENSOR	24V	10#			FIELD
(MAT)	MIXED AIR TEMPERATURE SENSOR		AAON	MIXED AIR TEMPERATURE SENSOR	24V	10#			FACTORY
(CO2)	CO2 DETECTOR		MICROTHERMO 023–0475	CO2 DETECTOR	24V	10#		PROVIDE DEDICATED POWER SUPPLY. DO NOT POWER FROM SAME SOURCE AS MT 508 & MT 504	FIELD
(FS) (DPS)	AIR DIFFERENTIAL FLOW SWITCH		AAON	AIR DIFFERENTIAL FLOW SWITCH	24V	10#			FACTORY
CP–1	FRONT MONITORING PANEL		MICROTHERMO 963–0152	FRONT MONITORING PANEL	120V	50#			
CP–2	HVAC BACK PANEL		MICROTHERMO 963–0153	HVAC BACK PANEL	120V	50#			
WS–1	CABINET WORKSTATION		MICROTHERMO 251–0014	CABINET WORKSTATION DATA LOGGER KVM, KEYBOARD, MOUSE, SPEAKERS	24V	50#			
RB–1	ROUTER BASE		MICROTHERMO 220–0026	ROUTER BASE	24V	10#			
SN–1	SCHEDULER NODE		MICROTHERMO 950–3968	SCHEDULER NODE PIGGY BACK APPLIED TO ALARM BOARD	24V	10#		STACK ON TOP AND CONNECT TO ALARM BOARD. REMOVE ALARM BOARD POWER BEFORE CONNECTING	
R–1	REPEATER		MICROTHERMO 961–381F	REPEATER	24V	10#			
CT–1	CT SWITCH		MICROTHERMO 140–0001	CT SWITCH	24V	10#		USE FOR AIR DOOR FAN & HEAT PROOF IF AIR DOOR HAS ELECTRIC HEAT. IF GAS HEAT, THEN ONLY FAN PROOF. CT NOT NEEDED WHEN EQUIPMENT COMES WITH FACTORY DRY CONTACT CLOSURE FOR FAN AND/OR HEAT PROOF.	FIELD
DPT–1	DIFFERENTIAL PRESSURE TRANSMITTER		MICROTHERMO 023–0394	DIFFERENTIAL PRESSURE TRANSMITTER	24V	10#		PROVIDE DEDICATED POWER SUPPLY. DO NOT POWER FROM SAME SOURCE AS MT 508 & MT 504	FIELD

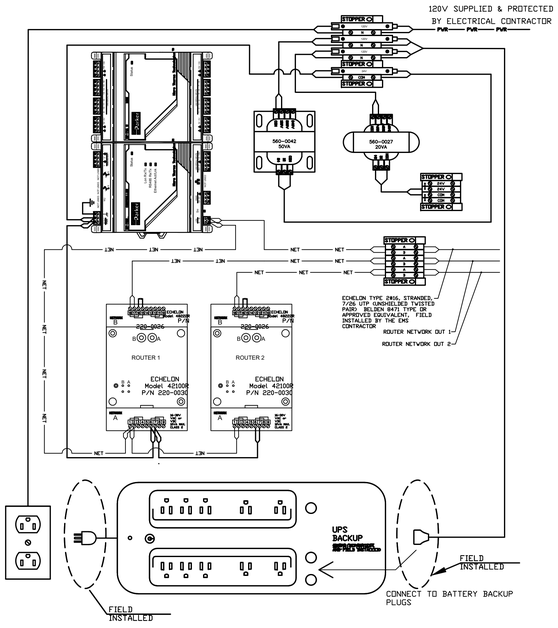
GENERAL NOTES
- All equipment furnished by costco, installed by RC
- AC units provided with D.D.C. communications interface controlled by building management system by controls installer. sensor/t'stat S.I.O. sensors @ +72", t'stats at 48" A.F.F.

CONTROLS LEGEND

—NET—	ECHELON TYPE 2#18, STRANDED, 7/26 UTP (UNSHIELDED TWISTED PAIR) BELDEN 8461 TYPE OR APPROVED EQUIVALENT, FIELD INSTALLED BY THE EMS CONTRACTOR (EXCEPT INSIDE PANEL NETWORK) (ROUTER NETWORK OUT]
—PWR—	120V FIELD INSTALLED WIRING BY E.C.
– – – –	FIELD INSTALLED WIRING BY THE EMS CONTRACTOR
———	PRE–WIRED WIRING

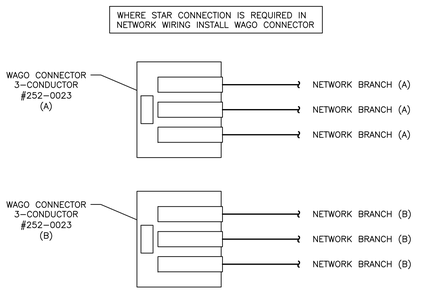


FRONT CONTROL PANEL (CP–1) DETAIL — 101
SCALE: NONE REV: SI/11–24–000

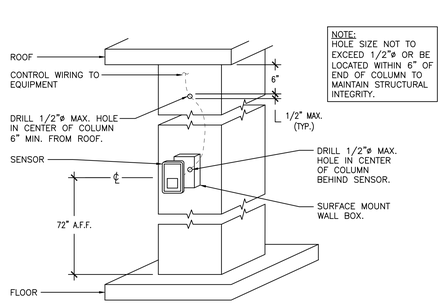


BACK CONTROL PANEL DETAIL — 102
SCALE: NONE REV: SI/04–25/Master

WHERE STAR CONNECTION IS REQUIRED IN NETWORK WIRING INSTALL WAGO CONNECTOR



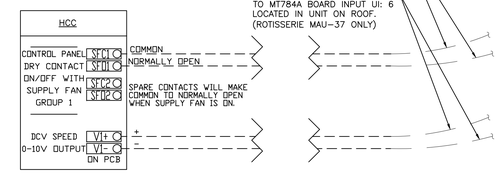
WAGO CONNECTOR DETAIL — 026
SCALE: NONE REV: EP/10–24/24–000



NOTE: HOLE SIZE NOT TO EXCEED 1/2"ø OR BE LOCATED WITHIN 6" OF END OF COLUMN TO MAINTAIN STRUCTURAL INTEGRITY.

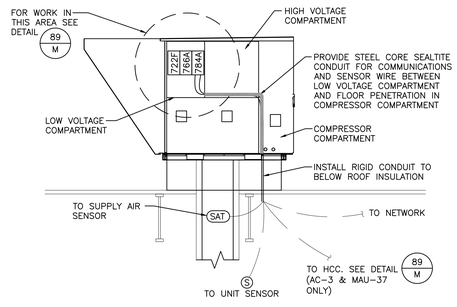
CEILING CASSETTE (IU–#) DETAIL — 083
SCALE: NONE REV: EP/11–24/24–000

CONTROL SEQUENCE		
CIRCUIT	FOOD SERVICE	ROTISSERIE
SFC1/SF01	OPEN DA DAMPER TO 40%	ENABLE UNIT
V1+/V1–	N/A	SUPPLY FAN SPEED

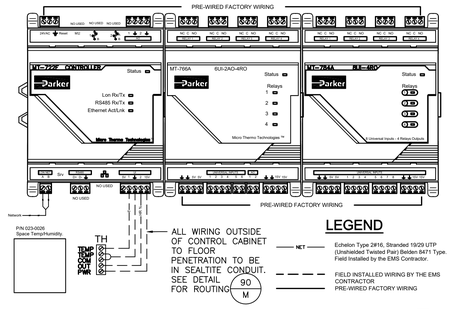


HCC WIRING DIAGRAM

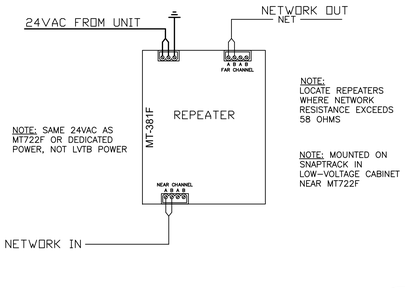
HOOD CONTROL INTERLOCK DETAIL — 089
SCALE: NONE REV: SA/04–25/Master



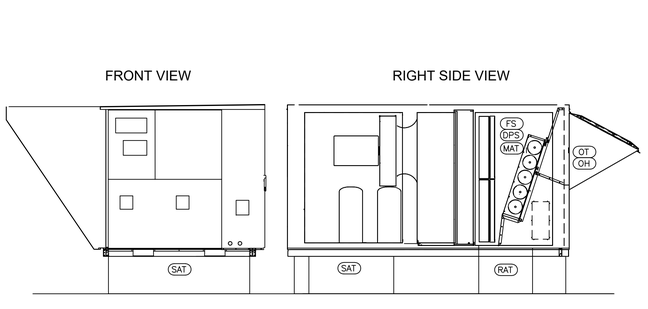
RTU FIELD WIRING DIAGRAM — 090
SCALE: NONE REV: SA/04–25/Master

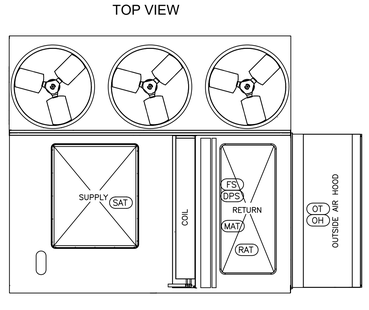


USER INTERFACE DETAIL — 091
SCALE: NONE REV: EP/11–24/24–000



REPEATER DETAIL — 103
SCALE: NONE REV: SA/04–25/Master





AC SENSOR DETAIL — 104
SCALE: NONE REV: TS/12–24/Master

ISSUED FOR PERMIT

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
630 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425–970–3763
FAX: 425–970–3766

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE

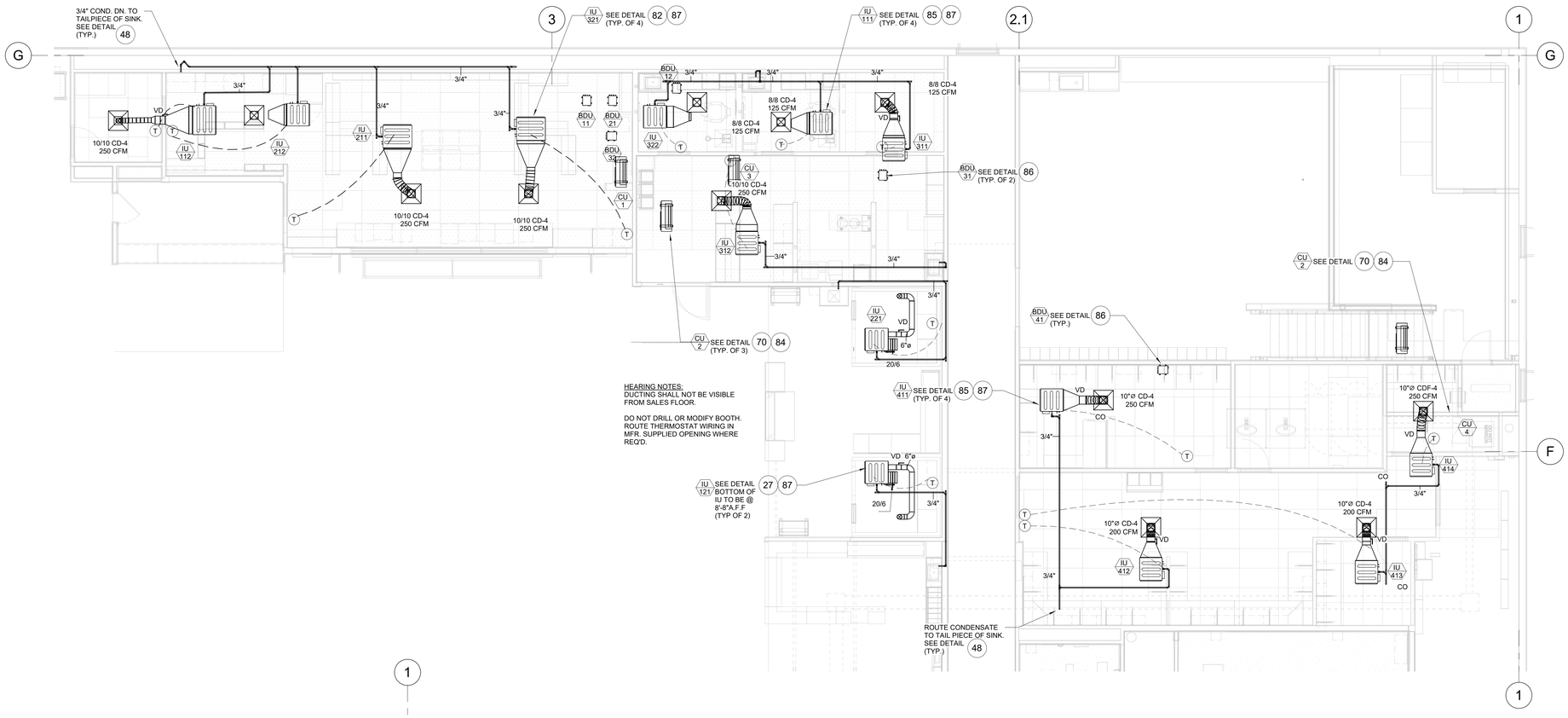
#___

TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 1/12/23

HVAC CONTROLS, SCHEDULE, & DETAILS

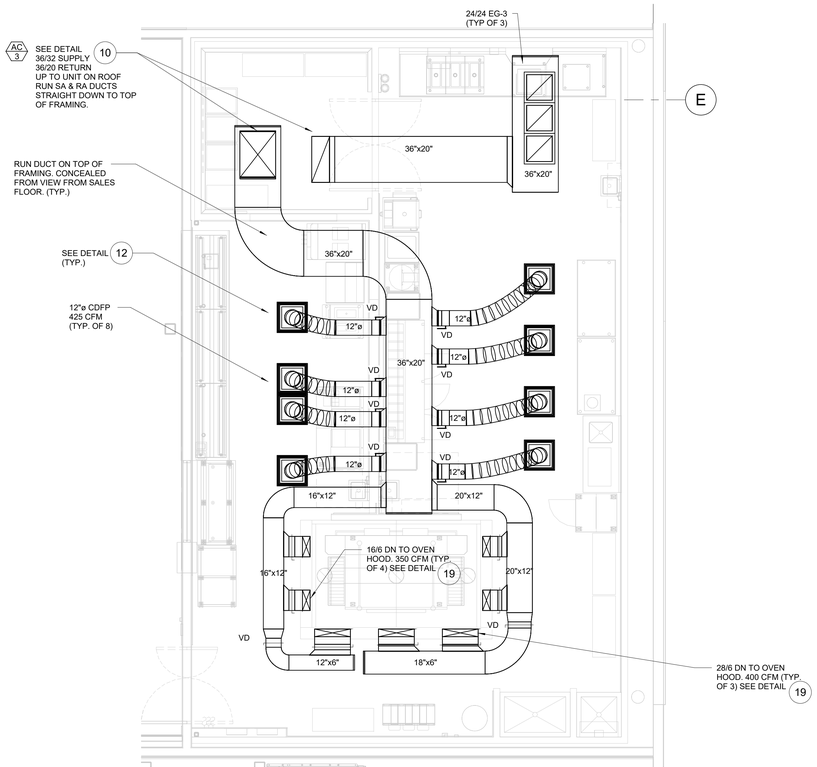
MR-1.2

12/23/2025 11:53:16 AM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt
K:\2025\340-349\25-346 - Costco - Lee's Summit - MO - New_346MR-1.2.dwg, 12/23/2025 12:01:47 PM, jseferian



PHARMACY & OFFICE AREA HVAC PLAN(RC SCOPE)

SCALE: 3/16" = 1'-0"



FOOD SERVICE HVAC PLAN(RC SCOPE)

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

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 4:03:54

ISSUED FOR PERMIT

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without written permission of writing from T.E. Inc.

T.E., INC.
810 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425-970-7253
FAX: 425-970-3756

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

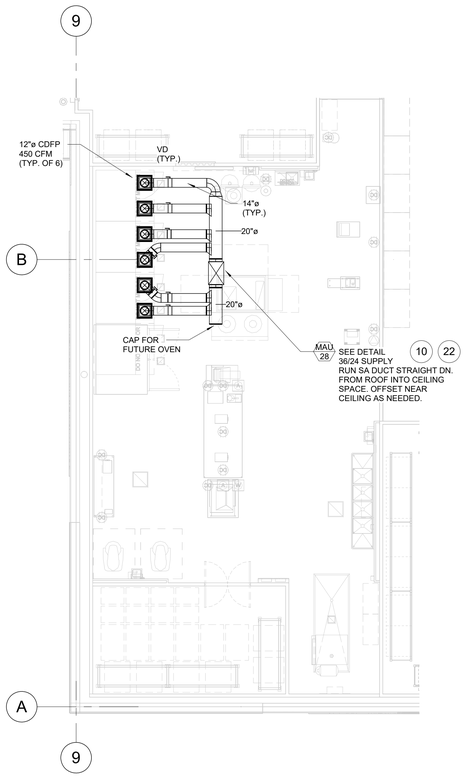
#____

TEI #: 25-346
PM: Author
CHECKED BY: Checker
ISSUED: 01/11/23

ENLARGED MECHANICAL PLANS(RC SCOPE)

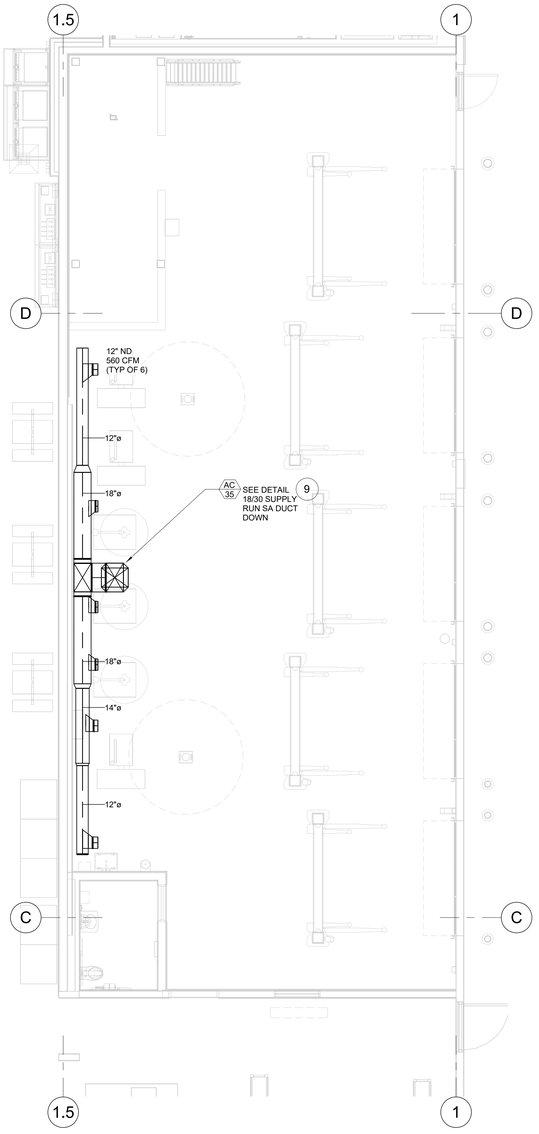
MR-2.1

12/23/2025 12:04:49 PM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt



FRESH LINE HVAC PLAN(R.C.SCOPE)

SCALE: 1/8" = 1'-0"



TIRE INSTALL HVAC PLAN(RC SCOPE)

SCALE: 3/16" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:54

ISSUED FOR PERMIT

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

△	DATE	DESCRIPTION
	11/26/25	ISSUED FOR QA
	12/23/25	ISSUED FOR PERMIT

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without prior permission in writing from T.E., Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-4253
FAX: 425-970-3736

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#___

TEI #: 25-346
PM: Author
CHECKED BY: Checker
ISSUED: 01/11/23

ENLARGED MECHANICAL PLANS(RC SCOPE)

MR-2.2

12/23/2025 12:04:51 PM C:\Users\jseferian\Documents_346_MP_CENTRAL_2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:55

COSTCO WHOLESALE

PLUMBING PLAN INDEX

P-0.1 PLUMBING LEGEND, INDEX, & GENERAL NOTES	1,3,4,5,9
P-0.2 PLUMBING SCHEDULES	64,111
P-1.1 UTILITY/UNDERGROUND PLUMBING PLAN	
P-1.2 MAIN PLUMBING PLAN	
P-1.3 GAS PIPING PLAN, GAS CALCULATIONS	
P-1.4 GUTTER SNOW MELT PLAN	67,68,69,70,71,72,73
P-2.1 FRONT END WASTE & DRAIN PLANS	
P-2.2 FRESH LINE WASTE & DRAIN PLANS, MECHANICAL ROOM WASTE & DRAIN PLANS	
P-3.1 FRONT END PLUMBING PLAN	
P-3.2 TIRE AIR PIPING & FRESH LINE PLUMBING PLAN MECHANICAL ROOM PLUMBING PLAN	51
P-4.1 PLUMBING DETAILS	2,6,7,8,11,12,13,14,15,16,17,18,19,20,21,22,24,25
P-4.2 PLUMBING DETAILS	26,27,28,29,30,31,32,33,34,36,37,38,43,44,46,47,77
P-4.3 PLUMBING DETAILS	10,39,40,41,42,45,49,50,60,62,75,78,80,82,84,85,88,90,112
P-5.1 VENT RISER DIAGRAMS	NONE
P-5.2 VENT RISER DIAGRAMS	NONE

DETAIL INDEX

PIPING SYSTEMS

THE FOLLOWING NOTES APPLY TO ALL PLUMBING PLANS.

1. **APPLICABLE PLUMBING CODE: 2018 IPC**
2. ALL WASTE PIPING, CONDENSATE PIPING & STORM DRAIN PIPING TO BE SLOPED AT 2% MINIMUM UNLESS OTHERWISE NOTED.
3. LOCATE ALL FLOOR CLEAN OUTS OUTSIDE OF FORKLIFT DRIVE AISLE (UNDER RACKING OR WITHIN 18" OF WALL). FOR SALES FLOOR WASTE LINES SEE **2/P** FOR CLEAN OUT OFFSET.
4. SURFACE MOUNTED PIPING WILL NOT BE ACCEPTABLE IN FINISHED ROOMS OR COOLERS. PIPING AND CONDUIT OF ALL TYPES SHALL BE CONCEALED WITHIN WALLS, FLOORS, CEILINGS **(INCLUDING CONDENSATE DRAIN LINES, WATER HEATER PRESSURE RELIEF LINES AND SODA LINES).**
5. **INSULATE ALL INTERIOR PIPING;** STORM DRAIN, HOT, COLD, RECIRC, AND CONDENSATE PER **SPECIFICATION SECTION 22 07 00.**
6. **ALL OVERHEAD PIPING TO BE LOCATED WITHIN ROOF TRUSS SPACE. RUN PERPENDICULAR OR PARALLEL TO BUILDING JOIST OR GIRDERS. FOR PASSING BELOW SOLID GIRDERS MOUNT PIPING 6" MAXIMUM FROM BOTTOM OF GIRDER. DO NOT BLOCK LIGHTING & SKYLIGHTS.**
7. PROVIDE TIE DOWN FOR ALL FLUES & VENTS OF 3' OR TALLER. SEE DETAIL **23/M. PAINT** ALL METAL & PVC **PIPING** EXPOSED TO WEATHER PER **SPEC SECTION 099100.**
8. PROVIDE **NON CORRUGATED** FLEXIBLE GAS CONNECTORS TO ALL INTERIOR GAS FIRED EQUIPMENT PER SPECIFICATION.
9. **CORROSIVE SOIL. ALL UNDERGROUND METAL PIPE TO BE COATED OR WRAPPED OR SUBSTITUE PLASTIC PIPE PER SPEC IF ALLOWED BY LOCAL AUTHORITY. ALL GREASE WASTE PIPING (GW) TO BE CAST IRON PER SPEC.**

WASTE & VENT

THE FOLLOWING NOTES APPLY TO ALL WASTE & VENT PLANS.

1. ALL VENTS ON THE COMBINATION WASTE & VENT SYSTEM SHALL BE SUPPLIED WITH WALL CLEANOUTS.
2. ALL FLOOR SINKS AND FLOOR DRAINS THAT SERVE THE COMBINATION WASTE & VENT SYSTEM SHALL BE PROVIDED WITH A P-TRAP TWO SIZES LARGER THAN THE FLOOR DRAIN OR FLOOR SINK IT IS SERVING.
3. ALL VERTICAL OFFSETS ON COMBINATION WASTE AND VENT (CWV) TO BE AT 45°.
4. EXTEND ALL PLUMBING VENTS WITHIN 15' OF PARAPET TO MINIMUM 2' ABOVE PARAPET. EXTEND ALL VENTS **MINIMUM 15' AWAY** FROM ALL INTAKE AS REQUIRED.
5. SEE FIXTURE SCHEDULE FOR MINIMUM TRAP ARM AND VENT SIZE.
6. ALL DIMENSIONS TO COLUMN LINES.

UTILITY NOTES

THE FOLLOWING NOTES APPLY TO UTILITY PLAN.

1. **DESIGN FROST DEPTH: 3'-6" BELOW GRADE**
   REQUIRED MINIMUM BURY DEPTH FOR ALL PIPING EXTERIOR TO BUILDING.
2. VERIFY & COORDINATE WITH SITE UTILITY DRAWING ALL STUB-OUT LOCATIONS AND INVERT ELEVATIONS BEFORE STARTING CONSTRUCTION. FINISHED FLOOR ELEVATION REFERENCE = 0.00" FINAL CONNECTIONS SHALL BE MADE BY THE M.C. ANY OFFSETS REQUIRED SHALL BE DONE AT THE MECHANICAL CONTRACTOR'S EXPENSE.
3. STUB-OUT S.D. 5'-0" FROM BUILDING OR CANOPY BELOW FROST LINE AND MINIMUM 12" BELOW FOOTING. STUB OUT FOR S.D. LOCATED DIRECTLY BELOW ROOF DRAIN WITH NO HORIZONTAL OFFSET ALLOWED, SEE ARCHITECTURAL SHEET FOR S.D. DIMENSIONS. VERIFY DEPTH OF ALL CONNECTIONS ON CIVIL PLAN PRIOR TO INSTALLATION. SECURE RAIN LEADER TO BUILDING, SEE DETAIL **7/P.**
4. 3"ø COLD WATER SERVICE. 2" METER LOCATED OUTSIDE BLDG. BY CIVIL. BACKFLOW DEVICE LOCATED INSIDE OF BLDG.

DOMESTIC WATER

THE FOLLOWING NOTES APPLY TO ALL DOMESTIC PIPING PLANS.

1. RUN ALL PIPING IN TRUSS SPACE, EXCEPT FOR WHERE COVERED BY EQUIPMENT PLATFORM OR LOCATED IN CEILING SPACE AT FRAMED ANCILLARY AREAS.
2. PROVIDE ALL HAND SINKS WITH THERMOSTATIC MIXING VALVE LOCATED BELOW SINK TO REDUCE WATER TEMPERATURE TO 110°F.
3. ALL NON-HAND WASHING SINKS ARE SERVED BY 140°F HOT WATER. **POST WARNING SIGNS** READING "CAUTION! 140°F HOT WATER".
4. HW STOP TO ROUGH IN ON LEFT, CW STOP TO ROUGH IN ON RIGHT. PROVIDE AIR CHAMBER PER DETAIL **9/P.**
5. RUN ALL PIPING IN JANITOR ROOM FOR WATER HEATER, WATER SOFTENER & WATER HEADER TIGHT TO WALL. LOCATE WATER HEATER WITHIN 3" OF WALL.
6. DO NOT RUN PLUMBING ABOVE ELECTRICAL ROOM OR PLATFORM. RUN PIPING WITHIN WALLS OR ABOVE JANITOR ROOM.
7. COORDINATE WITH G.C. FOR INSULATION REQUIREMENTS AT EXTERIOR WALLS FOR AREAS ADJACENT TO PLUMBING LINES.
8. PROVIDE THRUST BLOCKS ON ALL MAINS AND OTHER PIPING TO LIMIT MOVEMENT TO NO GREATER THAN ONE INCH. SEE DETAIL **10/P.**

TANK/VESSEL PERMIT SCHEDULE

TANK/VESSEL	LOCATION	MEDIA	MAX. PRESSURE	INSTALLER
TIRE AIR COMPRESSOR	TIRE INSTALL	COMPRESSED AIR	175 PSI	M.C.
HOT WATER STORAGE FRONT	JANITOR ROOM	HOT WATER	150 PSI	M.C.
CO2	FOOD SERVICE	LIQUID CO2	1200 PSI	COSTCO VENDOR
NITROGEN	TIRE INSTALL	COMPRESSED N2	175 PSI	M.C.
BAKERY AIR COMPRESSOR	MECHANICAL ROOM	COMPRESSED AIR	175 PSI	M.C.
CHILLED WATER TANK	MECHANICAL ROOM	CHILLED WATER	150 PSI	M.C.
HEAT RECOVERY	MECHANICAL ROOM	HOT WATER	150 PSI	M.C.
HOT WATER STORAGE FRESHLINE	MECHANICAL ROOM	HOT WATER	150 PSI	M.C.
EVAC DRAINAGE TANK	MECHANICAL ROOM	CONDENSATE	ATMOSPHERIC	COSTCO VENDOR
GREASE RECOVERY	RECEIVING	CHICKEN GREASE	ATMOSPHERIC	M.C.

- THE ABOVE IS A LIST OF TANKS AND VESSELS ASSOCIATED WITH A COSTCO. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS AND/OR CERTIFICATIONS ASSOCIATED WITH THESE ITEMS.
- G.C. SHALL VERIFY THAT ALL PERMITS AND/OR CERTIFICATIONS HAVE BEEN ACQUIRED.

DOMESTIC WATER FIXTURE UNITS

AREA	FIXTURE	NUMBER	WASTE FIXTURE UNITS	WATER FIXTURE UNITS	TOTAL WASTE UNITS	TOTAL WATER UNITS
PHARMACY	PLS	1	3	1	3	1
HEARING	HES	1	2	1	2	1
OPTICAL	OES	4	4	1	16	4
BREAK ROOM	LS	1	3	2	3	2
PUBLIC	WC	11	4	5	44	55
RESTROOM	U	4	2	4	8	16
	LAV	9	2	1	18	9
	DF	2	1	0.5	2	1
	MOP SINK(MS-2)	1	3	3	3	3
	HB(JANITOR)	1	0	2.5	0	2.5
	D-5	4	2	0	8	0
				SUBTOTAL	107	94.5
FOOD	HS(F-4)	3	2	1	6	3
SERVICE	3-COMP(F-5)	1	8	8	8	8
(GI-2)	1-COMP(F-6)	1	3	2	3	2
	STEAM TABLE(F-7)	1	3	2	3	2
	MOP SINK(MS-2)	1	3	3	3	3
	D-1	6	1	0	6	0
	HB-1(EXTERIOR)	1	0	2.5	0	2.5
	DETERGENT(HB-2)	1	0	2.5	0	2.5
				SUBTOTAL	29	23
TIRE	HB-4	1	0	2.5	0	2.5
CENTER	WC	1	4	5	4	5
	LAV	1	2	1	2	1
	SS	1	3	3	3	3
	D-4(SODA)	1	3	0	3	0
	D-5	1	2	0	2	0
				SUBTOTAL	14	11.5
DEMO/	3 COMP(E-18)	1	4	3	4	3
STORAGE	HS(E-1)	1	1	1	1	1
(GI-1)	D-5	1	2	0	2	0
ROTISSERIE	3-COMP(E-23)	1	8	6	8	6
(GI-1)	1-COMP(E-16)	1	3	3	3	3
	SKEWER(E-27)	1	8	4	8	4
	2-COMP(E-28)	1	3	3	3	3
	HB(E-10)	2	0	2.5	0	5
	HB-1(EXTERIOR)	1	0	2.5	0	2.5
	METER(E-5)	1	0	2	0	2
	PAN WASHER(D-6)	1	8	6	8	6
	OVEN	3	1	1	3	3
	D-1	3	1	0	3	0
	TD-5	3	6	0	18	0
				SUBTOTAL	64	39.5
MEAT &	4-COMP(E-22)	1	8	4	8	4
BAKERY	3-COMP(E-23)	1	8	6	8	6
	2-COMP(E-28)	1	3	3	3	3
	1-COMP(E-15)	1	3	3	3	3
	HS(E-1)	5	2	1	10	5
	HB(E-10)	2	0	2.5	0	5
	HB-1(EXTERIOR)	1	0	2.5	0	2.5
	2-COMP(E-28)	1	3	3	3	3
	HB(E-10)	2	0	2.5	0	5
	HS(E-1)	4	2	1	8	4
	DETERGENT(HB-2)	1	0	2.5	0	2.5
	OVEN	4	0	1	0	4
	TD-25	1	3	0	3	0
	TD-5	4	6	0	24	0
				SUBTOTAL	64	35.5
RECEIVING	WC	1	4	5	4	5
	LAV-2	1	2	1	2	1
	DF	2	1	0.5	2	1
	D-5	1	2	0	2	0
	D-1	1	1	0	1	0
	D-4 (ICE MACHINE)	1	4	2	4	2
	EW-1	1	1	2	1	2
				SUBTOTAL	15	9
SCRUBBER	MS-2	1	3	3	3	3
	HB-2	2	0	2.5	0	5
	HB-1(EXTERIOR)	1	0	2.5	0	2.5
	D-8	1	8	0	8	0
MACHINE	D-4	3	4	0	12	0
ROOM	EVAC(D-11)	1	8	4	8	4
				SUBTOTAL	31	14.5
MAIN SALES	HB	3	0	2.5	0	7.5
				SUBTOTAL	0	7.5
TOTAL					324	235

DOMESTIC WATER PIPE SIZING

WATER VOLUME REQUIRED	98	GPM
WATER USAGE PER DAY (EXPECTED X 125%)	11589	GPD
AVAILABLE PRESSURE AT MAIN	**70.00**	**PSI**
PRESSURE LOSS DUE TO ELEVATION FROM STREET	−1.29	PSI
WATER METER PRESSURE LOSS (2 METER FROM CHART A-1)	−6.00	PSI
SERVICE TO BUILDING LOSS (100 FT)	−1.25	PSI
BACKFLOW PREVENTOR LOSS (3 SIZE)	−12.00	PSI
PRESSURE LOSS THRU WATER SOFTENER	−15.00	PSI
BOOSTER PUMP LOW SUCTION PRESSURE	34.46	PSI
BOOSTER PUMP PRESSURE BOOST	5.00	PSI
SYSTEM PRESSURE	39.46	PSI
LAST FIXTURE PRESSURE (RESIDUAL PRESSURE)	−25.00	PSI
HEIGHT PRESSURE LOSS @ 4 FT A.F.F.	−1.72	PSI
PRESSURE AVAILABLE FOR FRICTION LOSS	12.74	PSI
PRESSURE LOSS AVAILABLE PER 100 FT (BASED ON 600 FT EQUIVALENT LENGTH FAIRLY SMOOTH COPPER PIPE)	2.12	PSI/100'
WATER PRESSURE INFORMATION PROVIDE BY	**MG2 Start-up 10/31/25**	
AVERAGE WATER HARDNESS AT LOCATION (GRAINS/GALLON)	**7.20**	
CHLORIDE LEVEL (PPM)	23.00	
TOTAL DISSOLVED SOLIDS (PPM)	10.00	

PIPE SIZE	FLOW (GPM)	FLOW (FPS)	WSFU (FLUSH VALVE)	WSFU (NON-FLUSH VALVE)
1/2"	1.47	2.03	0	0
3/4"	3.97	2.63	0	3
1"	8.15	3.17	0	10
1-1/4"	14.33	3.66	0	20
1-1/2"	22.82	4.12	5	35
2"	46.51	4.92	40	113
2-1/2"	85.03	5.72	172	299
3"	136.36	6.42	468	566

ROOF AREA DRAINAGE CHART (GRAVITY SYSTEM)

RAINFALL RATE	3.6	IN/HOUR
PIPE SLOPE	0.25	IN/FT

MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREAS

PIPE SIZE	PROJECTED ROOF AREA (SQFT.)
6"	13,020
8"	27,003
10"	49,595

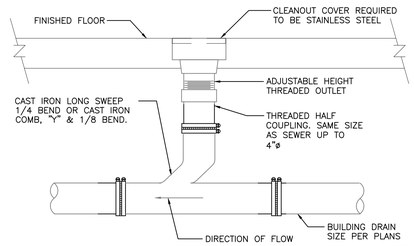
ISOLATION VALVE SCHEDULE

VALVE TAG	DESCRIPTION	SERVES	VALVE TAG	DESCRIPTION	SERVES
GAS BAK	GAS ISOLATION	BAKERY OVENS	WATER PRR	WATER ISOLATION	PUBLIC RESTROOM
GAS ENT	GAS ISOLATION	ENTRY/CANOPY	WATER FS	WATER ISOLATION	FOOD SERVICE
GAS FS	GAS ISOLATION	FOOD SERVICE	WATER TIRE	WATER ISOLATION	TIRE SALES TIRE INSTALL
GAS FUT	GAS ISOLATION	FUTURE CONNECT	WATER PHOTO	WATER ISOLATION	PHOTO
GAS LR	GAS ISOLATION	OFFICE/LOCKER RM	WATER OPT	WATER ISOLATION	OPTICAL
GAS OPT	GAS ISOLATION	OPTICAL	WATER REC	WATER ISOLATION	RECEIVING AREA
GAS REC	GAS ISOLATION	RECEIVING	WATER MNB	WATER ISOLATION	MEAT & BAKERY
GAS ROT	GAS ISOLATION	ROTISSERIE OVENS	WATER ROOF	WATER ISOLATION	ROOF HOSE BIBB
GAS RX	GAS ISOLATION	PHARMACY	WATER ENT	WATER ISOLATION	ENTRANCE
GAS SALES	GAS ISOLATION	MAIN SALES AREA	WATER RX	WATER ISOLATION	WELLNESS CENTER
GAS TIRE	GAS ISOLATION	TIRE SALES TIRE INSTALL			
GAS WH	GAS ISOLATION	FRESHLINE WATER HEATERS			

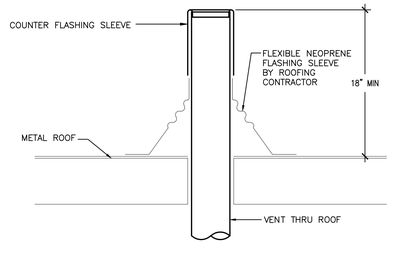
FOR MORE INFORMATION, SEE SPEC SECTION 220500 2.9.

PLUMBING LEGEND

CWV — COMBINATION WASTE & VENT	GAS COCK	CAP OFF	PSI	POUNDS PER SQUARE INCH
GW — GREASY WASTE/SANITARY SEWER	CONTROL VALVE – 2 / 3 WAY	A.F.F.	ABOVE FINISH FLOOR	RN	ROUGH INSTALLATION
WASTE/SANITARY SEWER	P&T	AHJ	AUTHORITY HAVING JURISDICTION	RPPB	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
VENT	RPPB/RPZ	B.F.F.	BELOW FINISH FLOOR	RPZ	REDUCED PRESSURE ZONE ASSY. BACKFLOW PREVENTER
COLD WATER	STRAINER	CO	CLEAN OUT	SCO	SURFACE CLEAN OUT
HOT WATER	THERMOMETER	CONT.	CONTINUATION	S.S.	SANITARY SEWER
HOT WATER CIRCULATION	UNION	CW	COLD WATER	TYP.	TYPICAL
A — AIR	VALVE – CHECK	FCO	FLOOR CLEAN OUT	U	UNION
C — CONDENSATE DRAIN	VALVE – GATE	G.C	GENERAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
G — GAS	VALVE – BALL	H&CW	HOT & COLD WATER	VTR	VENT THRU ROOF
N2 — NITROGEN	PRV — VALVE – PRESSURE REDUCING	HW	HOT WATER	W.	WASTE
RO — FILTERED (RO) COLD WATER	MIXING VALVE	IN. WC	INCHES OF WATER COLUMN	WCO	WALL CLEAN OUT
H — HARD COLD WATER	PRESSURE GAUGE	MBH	1,000 BRITISH THERMAL UNITS/HR	WHA	WATER HAMMER ARRESTER
SD — STORM/OVERFLOW DRAIN	AUTO AIR VENT	M.C.	MECHANICAL CONTRACTOR		



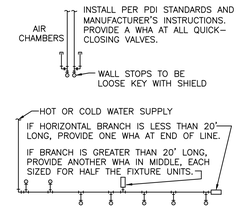
INTERIOR FLOOR CLEANOUT 001
SCALE: NONE REV: SI/12-24/24-000



VENT THRU ROOF 003
SCALE: NONE REV: SI/12-24/24-000

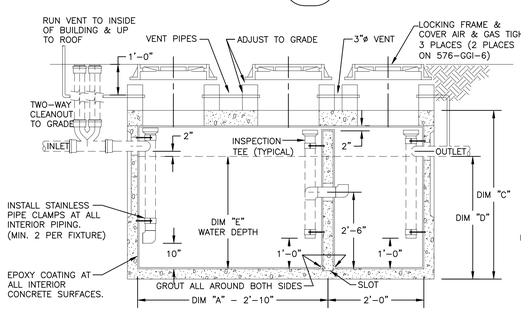
SINGLE/DOUBLE FIXTURE

PDI SIZE	FIXTURE UNIT LOAD
A	1-11
B	12-32
C	33-60
D	61-113
E	114-154
F	154-330



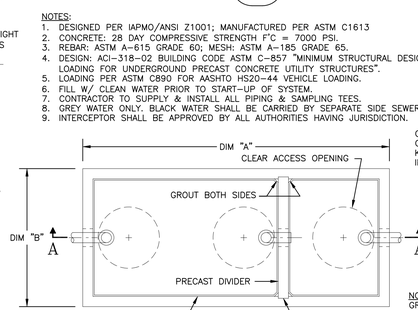
FOR BATTERIES OF FIXTURES, PROVIDE WATER HAMMER ARRESTERS BY ZURN OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO "WHA" WHERE REQUIRED BY LOCAL CODE.

WATER HAMMER ARRESTERS 009
SCALE: NONE REV: SI/10-24/24-000



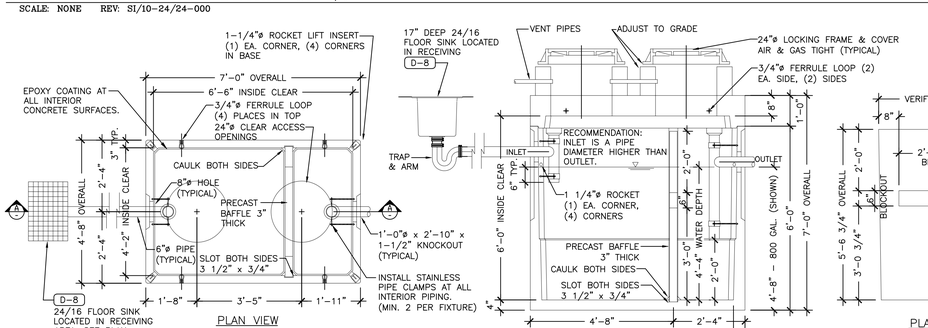
NOTES:
1. DESIGNED PER IAPMO/ANSI Z1001; MANUFACTURED PER ASTM C1613
2. CONCRETE: 28 DAY COMPRESSIVE STRENGTH F'C = 7000 PSI.
3. REBAR: ASTM A-615 GRADE 60; MESH: ASTM A-185 GRADE 65.
4. DESIGN: ACI-318-02 BUILDING CODE ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES".
5. LOADING PER ASTM C890 FOR AASHTO HS20-44 VEHICLE LOADING.
6. FILL W/ CLEAN WATER PRIOR TO START-UP OF SYSTEM.
7. CONTRACTOR TO SUPPLY & INSTALL ALL PIPING & SAMPLING TEES.
8. GREY WATER ONLY. BLACK WATER SHALL BE CARRIED BY SEPARATE SIDE SEWER.
9. INTERCEPTOR SHALL BE APPROVED BY ALL AUTHORITIES HAVING JURISDICTION.

	GI-1	GI-2
GALLON CAPACITY	1500	1000
UV CO. MODEL NO.	5106-GGI-6	576-GGI-6
DIM "A"	11'-2"	7'-6"
DIM "B"	5'-8"	5'-0"
DIM "C"	7'-2"	7'-8"
DIM "D"	4'-5"	5'-3"
WATER DEPTH DIM "E"	4'-0"	4'-9"



NOTE:
GREASE INTERCEPTOR SHALL BE LISTED AND LABELED AND APPROVED FOR HEAVY TRAFFIC AND PROVIDED WITH PROTECTION FOR HIGHLY EXPANSIVE AND CORROSIVE SOILS.

GREASE INTERCEPTOR DETAIL GI-1,2 004
SCALE: NONE REV: SI/10-24/24-000



STRUCTURAL NOTES:
1. CONCRETE: DAY COMPRESSIVE STRENGTH F'C = 4500 PSI.
2. REBAR: ASTM A-615 GRADE 60
3. MESH: ASTM A-185 GRADE 65
4. DESIGN: ACI-318-99 BUILDING CODE
5. LOADS: H-20 TRUCK WHEEL P = 16.0 KIP ASTM C-856 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES" 30% IMPACT FOR LESS THAN 3 FT. SOIL COVER.

GENERAL NOTES:
1. CONTRACTOR TO VERIFY ALL BLOCKOUT SIZES AND LOCATIONS DO ALL GROUTING & EPOXY OF VAULTS, HOLES AND SEAMS SUPPLY & INSTALL ALL PIPING & ELECTRICAL DO ALL PAINTING.
2. OUTLET PIPE CAN BE ADJUSTED TO INCREASE OR DECREASE GALLON CAPACITY.

SHIPPING WEIGHT:
TOP SECTION = 3,245 LBS
BASE SECTION = 7,595 LBS
BAFFLE = 775 LBS
TOTAL WEIGHT = 11,615 LBS

INSERTS:
TOP SECTION = (4) 3/4"ø FERRULE LOOP
BASE SECTION = (4) 1-1/4"ø ROCKET

SAND SEPARATOR S/S 005
SCALE: NONE REV: SI/10-24/24-000

ISSUED FOR PERMIT

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E. Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425-970-3763
FAX: 425-970-3766

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#

TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

PLUMBING LEGEND, INDEX AND GENERAL NOTES

P-0.1

K:\2025\340-349\25-346 - Costco - Lee's Summit - MO - New_346P-0.1.dwg, 12/23/2025 12:01:51 PM, jseferian
12/23/2025 11:58:56 AM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian335XA.rvt

PLUMBING FIXTURE SCHEDULE – CONTRACTOR PROVIDED

SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	VENT	COLD W.	HOT W.	SPECIFICATIONS	DETAIL	SERVES	NOTES	BACKFLOW PREVENTION
BP	BOOST PUMP CRNE10-2 USA/MEX	GRUNDFOS BOOSTERPAQ HYDRO MPC-E CRNE10-2			3"		3 PUMP BOOSTER PACKAGE, 1-1/2 HP, 460 VOLT, 3 PHASE 60 HZ, 6.4 FLA, 10.2 GALLON DIAPHRAM TANK PUMPS TO BE 316 STAINLESS STEEL, INTEGRATED VFD/MOTOR, CONSTANT PRESSURE CONTROL, CASCADE CONTROL. 604 LBS. 1 MOTOR: 60 GPM @ 60 FEET OF HEAD 26 PSI 2 MOTORS: 120 GPM @ 60 FEET OF HEAD 26 PSI MOTOR 3: REDUNDANT/STAND-BY	31/P	MECHANICAL ROOM		
CP-#	CIRCULATING PUMP	GRUNDFOS UPS 26-99BFC				3/4"	BRONZE HOUSING, 12 GPM @ 21 FEET OF HEAD. 120 VOLT, 197 WATTS, 1/6 HP. PROVIDE WITH THERMOSTAT/TIMER. VERIFY MOUNTING WITH MANUFACTURER (SHAFT SHOULD BE HORIZONTAL). CONTROLLED BY AQUASTAT.		MECHANICAL ROOM, JANITOR ROOM		N/A
D-1	FLOOR DRAIN	STAINLESS DRAINS.COM CSDFS-R -410-50.S	4"	2"			HEAVY DUTY, 1/2" STAINLESS STEEL SLOTTED GRATE WITH 12 GA TYPE 304 STAINLESS STEEL BODY, ANCHOR TABS, NO-HUB, ADJUSTABLE HEIGHT OUTLET WITH INTEGRAL BUTTERFLY LOCK, STAINLESS STEEL SEDIMENT BASKET. DRILL AND TAP UPPER FRAME FOR TRAP PRIMER AS REQUIRED.	21/P	MEAT, BAKERY, DELI, FOOD SERVICE, ROTISSERIE	(8)(12)	N/A
D-2	CONDENSATE DRAIN	STAINLESS DRAINS.COM CSD6000AT2	2"	2"			6" ADJUSTABLE FLOOR DRAIN WITH 14 GA STAINLESS STEEL BODY. DRAIN PROVIDED WITH PERFORATED 12 GA STAINLESS STEEL 3/4 GRATE ADJUSTABLE TOP.	22/P	COOLER	(12)	N/A
D-3	FLOOR SINK DRAIN	STAINLESS DRAINS.COM CSD8X8X6P	3"	2"			8X8X6"DEEP FLOOR SINK WITH 14 GA STAINLESS STEEL BODY. DRAIN PROVIDED WITH PERFORATED 12 GA STAINLESS 1/2 GRATE, DOME STRAINER, FLASHING COLLAR AND 3" NO HUB ADJUSTABLE HEIGHT OUTLET.	23/P	BAKERY OVENS	(12)	N/A
D-4	FLOOR SINK DRAIN	STAINLESS DRAINS.COM CSDSINK12X12X10 1/2PIFDS	4"	2"			INDIRECT SINK WASTE, 12" SQUARE EXTRA DEEP 14GA STAINLESS STEEL RECEPTOR. DOME BOTTOM STRAINER, NO HUB ADJUSTABLE HEIGHT OUTLET, PERFORATED 1/2 GRATE AND INTERNAL FLANGE.	23/P	MEAT, BAKERY, DELI, FOOD SERVICE	(12)	N/A
D-5	FLOOR DRAIN	STAINLESS DRAINS.COM CSD6000AT-TPC3	3"	2"			6" FLOOR DRAIN WITH 14 GA STAINLESS STEEL BODY. DRAIN PROVIDED WITH PERFORATED 12 GA STAINLESS STEEL GRATE. TRAP PRIMER CONNECTION AND 3" ADJUSTABLE OUTLET.	22/P	TOILET ROOMS, JANITOR ROOMS	(8)(12)	N/A
D-6	FLOOR DRAIN	STAINLESS DRAINS.COM SDS14X8	4"	2"			HEAVY DUTY, 1/2" STAINLESS PERIMETER GAP GRATE WITH 8 GA TYPE 304 STAINLESS STEEL BODY, ANCHOR TABS, NO-HUB, ADJUSTABLE OUTLET, PERFORATED OUTLET STRAINER WITH LOCK PINS AND STAINLESS STEEL SEDIMENT BASKET.	90/P	RACK WASHER PIT	(12)	N/A
D-8	FLOOR SINK	STAINLESS DRAINS.COM CSDSUMP 24X16X17HD	4"	2"			24"X16" 14 GA TYPE 304 STAINLESS STEEL FLOOR SINK 17" DEEP, 28"X20" ANCHOR FLANGE WITH BASKET STRAINER, 4"NO HUB ADJUSTABLE HEIGHT OUTLET, 1/4" X 1-1/2" ON 1" CENTER GRATING.		SCRUBBER RECEPTOR	(12)	N/A
DF-2	DRINKING FOUNTAIN	ELKAY EZSTL8WSLK	2" @21.875"	1-1/2"	1/2" @19"		WALL MOUNTED BI-LEVEL WATER COOLER (EZSTL8WSLC) WITH BOTTLE FILLING STATION (EZWSR), 8.0 GPH BASE RATE 115V/1Ø, 6.0 FLA, FLEXIBLE BUBBLER GUARD, SENSOR ACTIVATED FILL SENSOR. ADA COMPLIANT, UL & CSA CERTIFIED.		PUBLIC RESTROOM, RECEIVING RESTROOM	(6)	LH-BS AG
EW-1	EYE WASH	HAWS 7260B	2"	1-1/2"	1/2"	1/2"	ABS RECEPTOR, WALL MOUNTED TWIN EYE HEADS, INSTANT ACTION BALL VALVE, 1/2" SUPPLY, 1-1/4" TAILPIECE & TRAP.		BATTERY CHARGERS TIRE INSTALL		LH-BS AG
FCO FFS	FLOOR CLEANOUT	STAINLESS DRAINS.COM CSDCLNOUT	SEE PLAN				FLOOR CLEAN OUT WITH 1/2" HEAVY DUTY TYPE 304 STAINLESS STEEL SMOOTH PLATE TOP AND PVC PLUG.	1/P		(12)	N/A
FWD	FOOD WASTE DISPOSAL	INSINKERATOR BADGER 900	1-1/2"	1-1/2"			FOOD WASTE DISPOSER, CONTINUOUS FEED, 3/4 HP MOTOR 120V/1Ø. STAINLESS STEEL GRIND COMPONENTS WITH TWO SWIVEL LUGS. SELF-SERVICE WRENCH. GC TO PROVIDE 3' POWER CORD ACCESSORY KIT.		EMPLOYEE BREAK ROOM		N/A
GI-1	GREASE INTERCEPTOR	UTILITY VAULT CO. 5106-GGI-6	6"	3"			UNIT CAPACITY OF 1500 GAL. AT 3'-11" WATER DEPTH. UNIT SHALL HAVE PRIOR APPROVAL BY LOCAL JURISDICTION BEFORE ORDERING. CONTRACTOR TO VERIFY INLET/OUTLET PIPE LOCATION AND SIZE.	4/P	MEAT, BAKERY		N/A
GI-2	GREASE INTERCEPTOR	UTILITY VAULT CO. 5106-GGI-6	6"	3"			UNIT CAPACITY OF 1500 GAL. AT 3'-11" WATER DEPTH. UNIT SHALL HAVE PRIOR APPROVAL BY LOCAL JURISDICTION BEFORE ORDERING. CONTRACTOR TO VERIFY INLET/OUTLET PIPE LOCATION AND SIZE.	4/P	FOOD SERVICE		N/A
HB-1	HOSE BIBB	WOODFORD 65C			3/4"		FROST PROOF, AUTOMATIC DRAINING FREEZELESS HYDRANT, LOOSE KEY. MOUNT AT +30" AFF, VERIFY WALL THICKNESS FOR ROD ASSEMBLY.			(2)	LH-BS AVB
HB-2	HOSE BIBB	WOODFORD 26P			SEE PLAN	SEE PLAN	+12", WALL SILL, PROVIDE WITH METAL WHEEL HANDLE.			(2)	LH-BS AVB
HB-4	HOSE BIBB	WOODFORD 26			3/4"		+24", PIPE MOUNT-(C INLET), 3/4" HOSE FAUCET, PROVIDE WITH METAL WHEEL HANDLE.		TIRE INSTALL	(2)	LH-BS AVB
HB-5	HOSE BIBB	WOODFORD Y30			3/4"		+24" FROST PROOF, AUTOMATIC DRAINING FREEZELESS HYDRANT. PROVIDE VACUUM BREAKER, NIDEL MODEL #34HD.	17/P	ROOF	(2)	LH-BS AVB
HB-6	HOSE BIBB	WOODFORD 26			3/4"		ELEVATION PER PLAN, PIPE MOUNT-(C INLET), 3/4" HOSE FAUCET, PROVIDE WITH LOOSE KEY TEE.		MAIN SALES	(2)	LH-BS AVB
HD	HOSE DROP	CHICAGO FAUCET 90-LABCP 83-58ABNF			3/4" @60"	3/4" @60"	FLEXIBLE STAINLESS STEEL HOSE, 58" LONG, WITH NO. 90 SELF-CLOSING PRE-RINSE VALVE SYMMONS VISU-TEMP NO.4-500VT-X-CHKS PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL THERMOMETER AND ADJUSTABLE STOP.		BAKERY		LH-BS/LBP PVB
HGV	HOOD GAS VALVE	ASCO SC-ELECTRIC GAS VALVE					GAS SOLENOID VALVE; INTERLOCK WITH HOOD CONTROL PANEL. CONTACT CAPTIVEAIRE (888)338-5225 TO ORDER.	15,16/P 19,20/M	FOOD SERVICE, ROTISSERIE		LH-BS AG
LAV-2	LAVATORY WALL HUNG	KOHLER BRENHAM K-1997 SLOAN ETF-600-BDT ETF-233	1-1/2" @22"	1-1/2"	1/2" @23"	1/2" @23"	KOHLER, WHITE, VITREOUS CHINA, 22"X19", WALL HUNG 4" FAUCET HOLE CENTERS. LAVATORY FAUCET SHALL BE SLOAN NO. ETF-600-BDT 4" CENTERS, SENSOR OPERATED. PLUG IN TRANSFORMER, BELOW DECK THERMOSTATIC MIXING VALVE, WITH ETF-233 TRANSFORMER TO OPERATE UP TO 2 FAUCETS. 0.5 GPM VANDAL RESISTANT SPRAY HEAD.		RECEIVING AREA RESTROOM, TIRE RESTROOM	(5)	LH-BS AG
LAV-4	HAND SINK MULTI-STATION-4 ADA, PC	SPG MSHS-ADA-002855 SLOAN ETF-880	2" @18"	2"		1/2" @24"	120"X19"X7-3/4"D, 16GA. TYPE 304 S/S SEAMLESS WELDED. WALL HUNG. 4, 1-1/8" FAUCET HOLES. FAUCET SHALL BE SLOAN ETF-880, SENSOR OPERATED, AC POWERED (PLG OPTION), 0.5 GPM. ACCESSIBILITY COMPLIANCE: ADA, TAS, CAL, UFAS, AND ONTARIO BARRIER FREE. CONTACT STORAGE PRODUCTS GROUP AT (877) 503-4774 FOR EQUIPMENT.	27/M	PUBLIC RESTROOM	(5)	LH-BS AG
MS-2	MOP SINK	STONE HARD FAUCET CHICAGO FAUCETS	3"	2"	3/4"	3/4"	C.I.P. CONCRETE WITH STONE HARD BY G.C., COMPLETE WITH D-5 FLOOR DRAIN, #832-AA HOSE & BRACKET. PROVIDE COMPLETE WITH CHICAGO FAUCETS MODEL #445-RC897SXKCP & RC-ARMS FAUCET WITH INTERNAL CHECKS AND VACUUM BREAKER.		FOOD SERVICE, RECEIVING AREA JANITOR ROOM		LH-BS AVB
MV-2	THERMOSTATIC MIXING VALVE	SYMMONS MAXLINE 7-230-CK			3/4"	3/4"	MIXING VALVE WITH LOCKABLE TEMPERATURE SETTING AND HOT AND COLD CHECKS, SET TEMPERATURE TO 100° F.	32/P 26/P	PUBLIC RESTROOM, FRESHLINE, DEMO ROOM		N/A
MV-3	THERMOSTATIC MIXING VALVE	HAWS #9201EW			3/4"	3/4"	EYEWASH MIXING VALVE. SET TEMPERATURE TO 100° F.	20/P	HEARING AID CENTER, ROTISSERIE		N/A
ODT	OVERFLOW DRAIN TRIM RING	STAINLESS DRAINS.COM CSDC-DC-#	SEE PLAN				OVERFLOW DRAIN TRIM RING, 10 GA. 304 STAINLESS STEEL, (4) 5/16" HOLES FOR MOUNTING. SEE PLAN FOR SIZE.	6/P	CANOPY	(12)	N/A
S/S	SAND/SEDIMENT SEPARATOR	UTILITY VAULT CO.577 SAND SEPARATOR	6"	3"			CONCRETE 4500 PSI, REBAR: GRD 60, WORK CAP. 800 GAL. UNIT SHALL HAVE PRIOR APPROVALBY LOCAL JURISDICTION BEFORE ORDERING. CONTRACTOR TO VERIFY INLET/OUTLET PIPE LOCATIONS AND SIZE.	5/P	SCRUBBER RECEPTOR		N/A
SS	SERVICE SINK	KOHLER BANNON K-6716	3" @10"	2"	3/4" @35"	3/4" @35"	ENAMELED CAST IRON SERVICE SINK WITH STAINLESS STEEL RIM GUARD, CHICAGO FAUCETS 445-RC897 SXKCP & RC-ARMS WITH INTERNAL VACUUM BREAKER & INTERNAL CHECKS, KOHLER K-6673 3" TRAP. PROVIDE COMPLETE W/ METAL RIM GUARD.		TIRE CENTER		N/A
TBV	THERMOSTATIC BALANCE VALVE	CIRCUIT SOLVER CSUA					SELF ACTUATING THERMOSTATIC BALANCING VALVE FOR DOMESTIC HOT WATER RECIRCULATION SYSTEMS. STAINLESS STEEL CONSTRUCTION. 10°F OPEN/CLOSE RANGE. NSF-61 CERTIFIED. SEE PLANS & DETAIL FOR QTY., SIZES AND SETPOINTS.	80/P	MEAT, BAKERY		N/A
TD-#	TRENCH DRAIN LENGTH=5,10,20 LENGTH=15,25	STAINLESS DRAINS.COM CSD6X# SLOTTED	4"	2"			14GA STAINLESS STEEL BODY WITH CATCH BASIN AND 1/4" STAINLESS STEEL SLOTTED GRATE, 16 GA 6X24" SDSB SEDIMENT BASKET. FOR TD-5 PROVIDE INTEGRAL BUTTERFLY LOCK.	37/P	MEAT PREP, ROTISSERIE		N/A
U	URINAL	KOHLER K-25039-T SLOAN ROYAL OPTIMA 186-0.5 ES-S	1-1/2"	1-1/2"	3/4" @49.5"		FLOOR MOUNTED WHITE VITREOUS CHINA, 3/4" TOP SPUD, 2" FLOOR OUTLET, WATER SAVER FLUSHES ON 0.5 GALLONS. SLOAN ROYAL OPTIMA MODEL 186-0.5 ES-S WITH DUAL FILTERED TYPE DIAPHRAGM KIT, LOW CONSUMPTION FLUSH VALVE, CHROME PLATED FOR EITHER LEFT OR RIGHT HAND SUPPLY, EQUIPPED WITH SOLENOID OPERATOR, OPTIMA EL-1500 ADAPTIVE SENSOR, 4 TAMPER PROOF SCREWS & CHROME PLATED WALL COVER PLATE FOR TWO GANG ELECTRICAL BOX. PROVIDE WITH SLOAN EL-154 TRANSFORMER, 120V AC INPUT/24VAC OUTPUT, CLASS II, UL	19/P	PUBLIC RESTROOM	(7)	HH-BS AVB
WB-2	WALL BOX	GUY GRAY SSWB-82170				1/2" @14"	INSTALL WALL BOX @ +14" ABOVE FINISHED FLOOR. NO SANITARY SEWER CONNECTION REQUIRED IN FOOD SERVICE.		FOOD SERVICE		LH-BS AVB
WC	WATER CLOSET	ZURN Z5615.258.00.00.00 Z6000AV-HET Z5955SS-EL	4"	2"	1"		ECOVANTAGE MANUAL FLUSH VALVE TOILET SYSTEM. WALL HUNG SIPHON JET, ELONGATED BOWL, WHITE VITREOUS CHINA, FLUSH 1.28 GALLONS MIN. WORKING PRESSURE 25 PSI AT VALVE WHILE FLUSHING. 1" SCREWDRIVER BAK-CHECK ANGLE STOP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION & SPUD COUPLING FOR 1-1/2" TOP SPUD. ZURN Z5955SS-EL, OPEN FRONT WHITE TOILET SEAT FOR ELONGATED BOWL, NO COVER, STAINLESS STEEL HINGE W/CHECK. PROVIDE WITH HEAVY DUTY 500# MINIMUM CAPACITY CARRIER	8/P	PUBLIC RESTROOM, RECEIVING, TIRE RESTROOM	(1)(4)	HH-BS AVB
WF-1	WATER SYSTEM	EVERPURE			3/4"		REVERSE OSMOSIS (RO) SYSTEM. PREFILTER, RO PROCESSING UNIT, 1-40 GALLON TANK, 1-20 GALLON TANK. 0.53 GPM @ 50 PSI. 120V, 1ø, 215W, 10A MCOP. 90#. ORDER DIRECT FROM EVERPURE SEE SPEC. AND CONTACT @ 1-800-842-6193 (TWM@PENTAIR.COM)	75/P	FRESHLINE		
WH-1 WH-2	WATER HEATER (140°F)	A.O. SMITH BTH-300A			1-1/2"	1-1/2"	119 GALLON CONDENSING WATER HEATER, ASME TANK CONSTRUCTION, 300,000 BTU/HR INPUT @ 7"W.C., 436 GPH @ 80°F TEMP RISE. 1,850 LBS (WET) 855 LBS (DRY). VENT AND FLUE PIPING TO BE CLOSED CELL SCHEDULE 40 PVC. PROVIDE CONCENTRIC VENT KIT P/N: 100113124 AND CONDENSATE NEUTRALIZING KIT P/N: CNS-6.	46/P	FRESHLINE	(3)	N/A
WH-5	WATER HEATER (120°F)	A.O. SMITH BTH-199			1-1/2"	1-1/2"	100 GALLON CONDENSING WATER HEATER, 199,900 BTU/HR INPUT @ 7"W.C., 294 GPH @ 80°F TEMP RISE. 1,386 LBS. VENT AND FLUE PIPING TO BE CLOSED CELL SCHEDULE 40 PVC. PROVIDE CONCENTRIC VENT KIT P/N: 100111100 AND CONDENSATE NEUTRALIZING KIT P/N: CNS-2.	32/P	TIRE PLATFORM	(3)	N/A
WHA	WATER HAMMER ARRESTER	ZURN Z-1700					SHOKTROL Z 1700 SERIES, SEE PLANS FOR LOCATIONS AND SIZES. PROVIDE THRUST BLOCK AT UNIT TO LIMIT MOTION.	9/P			N/A
WS-1	WATER SOFTENER 106 GPM	EVERPURE			(2)2"		106 GPM CONTINUOUS @ 15 PSI PRESSURE DROP, 137 GPM MAX. @ 25 PSI PRESSURE DROP. 120V, 1ø, 10W. 4690#. ORDER DIRECT FROM PENTAIR SEE SPEC. AND CONTACT @ 1-800-842-6193 (TWM@PENTAIR.COM)	77/P	MECHANICAL ROOM		

PLUMBING FIXTURE SCHEDULE – SUPPLIED BY OWNER INSTALLED BY CONTRACTOR (SOIC)

SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	VENT	COLD W.	HOT W.	SPECIFICATIONS	DETAIL	SERVES	NOTES	BACKFLOW PREVENTION
HES	HEARING EXAM SINK		2"	1-1/2"	1/2"	1/2"	22 GAUGE TYPE 302 SELF RIMMING STAINLESS STEEL, LEDGE TYPE, SINGLE COMPARTMENT SINK, 12"X10"X6" DEEP WITH FAUCET LEDGE. INCLUDES CHROME FAUCET, STRAINER AND INSTALLATION HARDWARE.		HEARING EXAM		LH-BS AG
LS	LOUNGE SINK	UNIVERSAL	2"	1-1/2"	1/2"	1/2"	16 GAUGE TYPE 301 STAINLESS STEEL, SINGLE COMPARTMENT SINK WITH OFFSET WASTE & FAUCET OPENINGS, 3-1/2" BASKET DRAIN WITH 1-1/2" OUTLET, 27"X15-1/2"X6" DEEP. ENCORE KL41-4002 FAUCET, 4" OC INLETS, ADJUSTABLE GOOSENECK SPOUT, WRIST BLADE HANDLES AND 2.2 GPM AERATOR. FOOD WASTE DISPOSAL (FWD) PROVIDED BY G.C.		EMPLOYEE BREAK ROOM		LH-BS AG
OD-1	OVERFLOW ROOF DRAIN	SPAN	SEE PLAN				SAME AS RD-1 WITH OPTIONAL 2" HIGH DAM FOR OVERFLOW SERV.			(9)	N/A
OES	OPTICAL EXAM SINK		2"	1-1/2"	1/2"	1/2"	22 GAUGE TYPE 302 SELF RIMMING STAINLESS STEEL, LEDGE TYPE, SINGLE COMPARTMENT SINK, 12"X10"X6" DEEP WITH FAUCET LEDGE. INCLUDES CHROME FAUCET, STRAINER AND INSTALLATION HARDWARE.		OPTICAL EXAM		LH-BS AG
PLS	PHARMACY LAB SINK		2"	1-1/2"	1/2"	1/2"	22 GAUGE TYPE 302 SELF RIMMING STAINLESS STEEL, LEDGE TYPE, SINGLE COMPARTMENT SINK, 12"X10"X6" DEEP WITH FAUCET LEDGE. INCLUDES CHROME FAUCET, STRAINER AND INSTALLATION HARDWARE.		PHARMACY		LH-BS AG
RD-1	ROOF DRAIN	SPAN	SEE PLAN				ALUMINUM DRAIN BODY WITH STRAINER. OUTLET TO MATCH PIPING SYSTEM.			(9)	N/A
RD-2	ROOF DRAIN	MIFAB MH-500	5"				19-3/8"Ø WITH LACQUERED CAST IRON BODY, LACQUERED DUCTILE IRON INDUCER, 120 TO 1,300 GPM FLOW RATE.	84,85/P		(9)	N/A
WM-#	WATER MGMT SYSTEM	SENSUS OMNI TURBO (T2)			SEE PLAN		SENSUS OMNI TURBO (T2) WATER METER WITH FLANGED CONNECTIONS TO MATCH WATER SERVICE SIZE. PROVIDE WITH HIGH RESOLUTION REGISTER TO REPORT IN 1 GPM INCREMENT.	30/P 77/P	PUMP ROOM	(13)	N/A

(1) WATER CLOSETS TO HAVE OPEN FRONT SEATS AND ELONGATED BOWLS.
(2) ALL HOSE BIBBS TO HAVE NON-REMOVABLE BACKFLOW PREVENTION DEVICES-TAMPER PROOF VACUUM BREAKER.
(3) WATER HEATERS TO HAVE RIGID CONNECTIONS & CONSTRAINTS TO RESIST SEISMIC MOTION.
(4) HANDICAP WATER CLOSETS SHALL BE +16" TO TOP OF BOWL, FLUSH VALVE LEVER CONTROLS TO BE ON THE WIDE SIDE OF STALL AND NOTE MORE THAN 44 INCHES ABOVE THE FLOOR.
(5) LAVATORIES SHALL BE +34" TO RIM, WITH 29" OF CLEAR SPACE UNDERNEATH, HOT WATER AND DRAIN PIPES UNDER LAV SHALL BE INSULATED PER SPEC. SECTION 22 07 00.
(6) DRINKING FOUNTAINS SHALL BE +36" TO TOP OF BUBBLER, W/27" CLEAR UNDERNEATH, SPOUT SHALL BE LOCATED W/3" OF THE FRONT & DIRECT WATER FLOW @ NOT LESS THAN 4" IN HEIGHT. M.C. TO INSTALL 2X4 BLOCKING IN WALL BEHIND BOTTLE FILLING STATION @ +35" A.F.F. & 50" A.F.F.
(7) URINALS SHALL BE A.D.A. COMPLIANT, WATER SAVER TYPE. 0.5 GPF MAX.
(8) PROVIDE TRAP PRIMER. ACCEPTABLE SUBSTITUTION: PROSET TRAPGUARD; CONTRACTOR TO VERIFY WITH AUTHORITY HAVING JURISDICTION AND PROVIDE CREDIT TO OWNER.
(9) ROOF DRAINS ON METAL ROOF PROVIDED BY METAL BUILDING SUPPLIER. ROOF DRAINS ON BUILT UP ROOFS PROVIDED BY G.C.
(10) EQUIPMENT FURNISHED BY THE OWNER, THE MECHANICAL CONTRACTOR SHALL ROUGH-IN PLUMBING, INSTALL AND CONNECT ALL SERVICES. ALL P-TRAPS, TAILPIECES, ESCUTCHEONS, AND STOP VALVES SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
(11) PLUMBER TO PROVIDE AND INSTALL 1/2 GPM AERATORS.
(12) NATIONAL PURCHASE AGREEMENT IN PLACE WITH STAINLESSDRAINS.COM (A ZURN COMPANY) CONTACT SHANNON JAMES AT (888) 785-2345 OR SHANNON.JAMES@ZURN.COM.
(13) WATER MANAGEMENT SYSTEM TO BE ORDERED THROUGH WWW.INSTALLCOSTCO.COM/ORDER. SEE SPECIFICATION SECTION 220520.

HAZARD TYPE	BACKFLOW POTENTIAL
LH – LOW HAZARD HH – HIGH HAZARD	BS – BACK SIPHONAGE BP – BACK PRESSURE

BACKFLOW PREVENTION
RPZ – REDUCED PRESSURE PRINCIPLE BACK FLOW
PVB – PRESSURE VACUUM BREAKER
AG – AIR GAP
AVB – ATMOSPHERIC VACUUM BREAKER

FRESH LINE EQUIPMENT SCHEDULE – (S.O.I.C)

ARCH. NUMBER	SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	VENT	COLD W.	HOT W.	COMMENTS	DETAIL	SERVES	NOTES	BACKFLOW PREVENTION
4	E-1	HAND SINK	UNIVERSAL	1-1/2"	1-1/2"	1/2"	1/2"	16" X 16" X 16" TYPE 304 STAINLESS STEEL, WALL HUNG, WITH WALL BRACKET FISHER F1-3174 KNEE VALVE, 3816 GOOSENECK SPOUT.	28/P	MEAT, BAKERY, DELI, ROTISSERIE	(1)(3)(5)	LH-BS AG
244	E-3	AIR COMPRESSOR						1" AIR CONNECTION. AIR COOLED PUMP MOUNTED ON ASME 60 GALLON RECEIVER WITH AUTOMATIC DRAINER, 208V/3ø, 3HP.	45/P	BAKERY	(1)(2)	LH-BS AG
200	E-5	WATER METER	STM DOMIX			1/2"	1/2"	WALL HUNG WATER METER AND BLENDER UNIT, WITH INLET STOPS, CHECKS AND VACUUM BREAKERS.	50/P	BAKERY	(1)(2)	LH-BS AG
203	E-6	RACK WASHER	LVO	INDIRECT			1"	UNIT WITH RINSE BOOSTER AND STEAM VENT FAN. RUN DRAIN TO FLOOR SINK – TERMINATE WITH 1" AIR GAP. 66 MBH GAS INPUT.	49/P	BAKERY	(1)(2)	LH-BS/BP AVB
206	E-7	OVEN	HOBART AKA BAXTER OV500G2-EE			1/2"		UL LISTED INTEGRATED OVEN AND FULLY WELDED TYPE II HOOD FOR NON GREASE LADEN VAPOR. INTEGRAL OVEN WITH HOOD AND AIRFLOW DRAFT PROVING SWITCH ARE PROVIDED AND ASSEMBLED BY OWNER, INSTALLED BY CONTRACTOR. 350 MBH GAS INPUT, 750 CFM REQUIRED.	14/P	BAKERY	(1)(2)	LH-BS/BP
204	E-8	PROOFER BOX	HOBART/PW3S			3/8"		UNIT W/HUMIDIFIERS PROVIDED & ASSEMBLED BY OWNER.		BAKERY	(1)(2)	LH-BS/BP AG
17 18	E-10	FORMULA FOAM HOSE REEL	ECO LAB				3/4"	WALL HUNG, HOSE REEL.	44/P	MEAT, DELI	(1)(2)	LH-BP/BS AG
222	E-11	MUFFIN DEPOSITOR	HINDS BOCK					PNEUMATIC OPERATED MUFFIN DEPOSITOR, PROVIDE PARKER SERIES 20 3/8" QUICK COUPLER ASSEMBLY, H.O.E. 1/4" NPT & PARKER 1/2" 801-8 AIR HOSE. DROP AIR HOSE FROM 1" AIR MAIN ABOVE CEILING, TERMINATE W/ QUICK COUPLER ASSEMBLY SCREWED TO MACHINE AIR INLET.		BAKERY	(1)(2)	N/A
002	E-12	TWO COMPARTMENT SINK	UNIVERSAL	INDIRECT		3/4"	3/4"	98" X 35-1/2 X 43" TYPE 304 STAINLESS STEEL, WITH DRAIN BOARDS AND UNDERSHELVES, FISHER 2210 PRE-RINSE W/ADD-A-FAUCET, AND (2) LEVER DRAIN.	41/P	MEAT PREP, DELI	(1)(6)	LH-BS AG
444	E-13	ROTISSERIE OVEN	HARDT INFERNO 4500				1/2"	OVEN WITH HOOD, 120 MBH, CONTRACTOR SHALL INSTALL HOOD AND CONNECT PLUMBING TO OVENS USING FLEXIBLE HOSE CONNECTION. GAS LINE SHALL BE AGA APPROVED.	16/P	ROTISSERIE	(1)(2)	LH-BS/BP AVB
415	E-14	COMBI OVEN	AGA FOOD SERVICE			(2)3/4"		OVEN WITH HOOD, CONTRACTOR SHALL INSTALL HOOD AND CONNECT PLUMBING TO OVENS USING FLEXIBLE HOSE CONNECTION.	16/P	ROTISSERIE	(1)(2)	LH-BS/BP AVB
233	E-15	ONE COMPARTMENT SINK	UNIVERSAL	INDIRECT		3/4"	3/4"	30" X 24" W TYPE 304 STAINLESS STEEL, WITH FISHER 3253 FAUCET, AND LEVER DRAIN W/SS PANEL MOUNTED BEHIND SINK.	42/P	BAKERY	(1)	HH-BS AG
411	E-16	CHICKEN PREP. TABLE/SINK	UNIVERSAL	INDIRECT		1/2"	1/2"	STAINLESS STEEL, ADJ. LEGS W/8" CENTER FAUCET, LEVER WASTES.	43/P	CHICKEN PREP	(1)(6)	HH-BS AG
1	E-17	DETERGENT RACK	KAY CHEMICAL					AT 3 COMP SINK – 1/2" TEMPERED WATER FROM MV-2 @+16" A.F.F. VENDOR WILL MAKE FINAL CONNECTION FROM ROUGH IN BELOW THREE-COMPARTMENT SINK. AT PAN WASHER – 1/2" TEMPERED WATER FROM MV-2 @+60" A.F.F.	25/P		(4)	LH-BS AG AVB
618	E-18	DEMO SINK	STORAGE PRODUCTS GROUP PC-3N1824 -2D18	INDIRECT		3/4"	3/4"	91" X 29-3/4" – TYPE 304 STAINLESS STEEL WITH 18.5" DRAIN BOARD ON RIGHT KOHLER FAUCET, SOPA DISPENSER SINK (3) LEVER WASTE AND OVERFLOWS.	25/P	DEMO ROOM	(1)(2)(6)	LH-AG AG
319	E-19	SEAFOOD PREP. TABLE/SINK	STORAGE PRODUCTS GROUP PC-SKU1-003 104-01	INDIRECT		1/2"	1/2"	69-5/8" X 36" – TYPE 304 STAINLESS STEEL WITH 40" DRAIN BOARD ON RIGHT T&S FAUCET WITH PRE-RINSE SPRAYER, 2" LEVER WASTE AND OVERFLOW.	88/P	MEAT PREP	(1)(6)	HH-BS AG
202	E-22	FOUR COMPARTMENT SINK	UNIVERSAL	INDIRECT		3/4"	3/4"	150" X 35-1/2" X 43" – TYPE 304 STAINLESS STEEL WITH DRAINBOARDS AND UNDERSHELFS. INCLUDES FISHER 3253 FAUCET & FISHER 2210 PRE-RINSE W/ADD-A-FAUCET, SS PANEL TO BE MOUNTED BEHIND SINK AND (3) LEVER DRAIN.	40/P	MEAT, BAKERY, DELI, ROTISSERIE	(1)(6)	LH-BS AG
318 403	E-23	POWER WASH SINK	BI-LINE CONVEYOR SYSTEMS	INDIRECT		3/4"	3/4"	TYPE 304 STAINLESS STEEL WITH DRAIN BOARDS. INCLUDED (1) T&S PRE-RINSE W/ ADD-A-FAUCET, (1) T&S PRE-RINSE SPRAY, (2) TWIST LEVER DRAINS AND (1) BALL VALVE DRAIN.	24/P	MEAT, DELI	(1)(6)	LH-BS AG
499	E-24	WAREWASH STATION & 3-COMP SINK	SMITH & GREENE	INDIRECT		3/4" 1/2"	3/4" 1/2"	3-COMP SINK, VENTLESS DISHWASHER AND TABLE ASSEMBLY. TYPE 304 SS SINK. INCLUDED: (1) T&S PRE-RINSE #B-0133-B08, (1) T&S FAUCET B-0156 AND (3) ROTARY BALL DRAINS.	36/P	DELI	(1)(4)	LH-BS AG LH-BS/BP AVB
406	E-27	POWER SOAK SINK	POWER SOAK SYSTEMS	INDIRECT		3/4"	3/4"	SEE POWER SOAK SINK DETAIL #28 FOR DIMENSIONS – TYPE 304 STAINLESS STEEL WITH DRAIN BOARDS. INCLUDES (1) IPS FAUCET #KN34-8014-PS, (1) IPS PRE-RINSE #K53-5500-PS, (1) IPS ROTARY BALL DRAIN #DBN-9100.	39/P	CHICKEN PREP	(1)(6)	LH-BS AG
423	E-29	GREASE RECOVERY TANK	CLEANSTAR 1500C	2"	2"			SEE GREASE RECOVERY TANK DETAIL FOR EVACUATION AND VENT PIPING DIAGRAMS. PROVIDE SEISMIC RESTRAINT.	38/P	RECEIVING	(1)(2)	LH-BS AG

(1) EQUIPMENT FURNISHED BY THE OWNER. THE MECHANICAL CONTRACTOR SHALL ROUGH-IN PLUMBING, INSTALL AND CONNECT ALL SERVICES. ALL P-TRAPS, TAILPIECES, ESCUTCHEONS, AND STOP VALVES SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
(2) CONTRACTOR SHALL RECEIVE, UNCRATE, AND INSTALL.
(3) PROVIDE RIGHT AND LEFT SPLASH GUARDS IN MEAT PREP. ONLY.
(4) EQUIPMENT SUPPLIED AND INSTALLED BY OWNER(S.I.O.). THE MECHANICAL CONTRACTOR SHALL ROUGH-IN PLUMBING AND PROVIDE SHUTOFF VALVES AND ESCUTCHEONS. VENDOR TO MAKE ALL FINAL CONNECTIONS.
(5) M.C. TO PROVIDE WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE.
(6) CONTRACTOR TO PROVIDE 90 DEGREE ELBOW WITH BALL VALVE AND CHECK VALVE WITHIN 3" OF WALL.

HAZARD TYPE	BACKFLOW POTENTIAL
LH – LOW HAZARD HH – HIGH HAZARD	BS – BACK SIPHONAGE BP – BACK PRESSURE

BACKFLOW PREVENTION
RPZ – REDUCED PRESSURE PRINCIPLE BACK FLOW
PVB – PRESSURE VACUUM BREAKER
AG – AIR GAP
AVB – ATMOSPHERIC VACUUM BREAKER

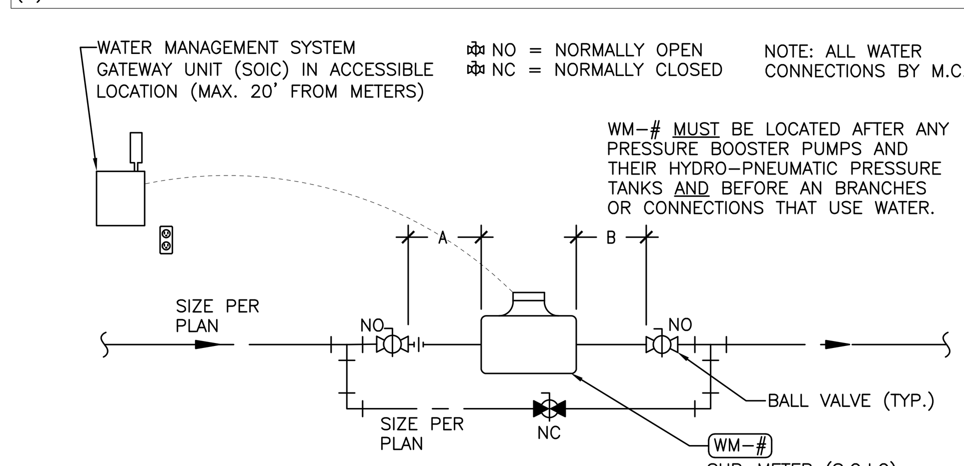
FOOD SERVICE EQUIPMENT SCHEDULE – (S.O.I.C)

ARCH. NUMBER	SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	VENT	COLD W.	HOT W.	COMMENTS	DETAIL	SERVES	NOTES	BACKFLOW PREVENTION
5	F-1	CHILLER	LANCER	INDIRECT				CHILLER FOR BEVERAGE DISPENSER SITS ON SHELVING PACKAGE. CONNECT 1/2" WATER FROM FILTER SYSTEM TO CHILLER.	18/P	FOOD SERVICE	(2)	LH-BS/BP RPZ
1	F-2	DETERGENT RACK	KAY CHEMICAL				1/2" @60"			FOOD SERVICE	(2)	LH-BS AG
821	F-3	PIZZA OVEN	XLT 3870-TS					TRIPLE STACKED OVENS, 200,000 BTUH TO EACH OVEN, PROVIDE GAS LINE CONNECTION TO EACH, 3/4" NPT FITTING.	19/M 15/P	FOOD SERVICE	(2)	N/A
4	F-4	HAND SINK	UNIVERSAL	1-1/2"	1-1/2"	1/2" @10	1/2" @10"	16" X 16" X 16" TYPE 304 STAINLESS STEEL, WALL HUNG, WITH WALL BRACKET FISHER F1-3174 KNEE VALVE, 3816 GOOSENECK SPOUT.	28/P	FOOD SERVICE	(1)	LH-BS AG
806	F-6	TABLE W/SINK (FOOD PREP. SINK)	UNIVERSAL	INDIRECT		1/2" @18"	1/2" @18"	SS PREP TABLE W/SINK #5SLC-B30-L-PC; 165 LBS SS 30"W TOP, W/6" SPLASH AT REAR ONLY, 60" L, SS LEGS, SIDE & REAR SS CROSSRAILS, 16G/304SS, TAC-1618 SINK BOWL INTEGRAL W/TABLETOP, 16" X 18" X 12", FISHER FI-3313 HEAVY DUTY 8" CENTER DECK MOUNT FAUCET W/12" SPOUT, USF-LD-2.0 TWIST HANDLE LEVER DRAIN, 2" SPOUT, TAC-PB POLY CUTTING BOARD, 30" X 18" X 5/8".		FOOD SERVICE	(1)	LH-BS AG
823	F-7	STEAM TABLE W/REF BASE	CRAIG	INDIRECT			1/2" @14"	STEAM TABLE WITH REFRIGERATED BASE, 2 FAUCET SETS, LEVER WASTE DRAIN, PROVIDE 1/2" TEMPERED HOT WATER.		FOOD SERVICE	(2)	LH-BS AG
838	F-10	WATER FILTER				3/4"			18/P	FOOD SERVICE	(1)	LH-BS/BP RPZ
836	F-11	SODA COUNTER	UNIVERSAL	INDIRECT					18/P	FOOD SERVICE	(3)	LH-BS/BP RPZ
846	F-12	SODA/ICE DISPENSER	CONELIUS	INDIRECT				CW FROM FILTER.	18/P	FOOD SERVICE	(3)	LH-BS/BP RPZ
847	F-13	ICE MACHINE	ICE-O-MATIC	INDIRECT				CW FROM FILTER.	18/P	FOOD SERVICE	(3)	LH-BS/BP RPZ
898	F-16	WAREWASH STATION & 3-COMP SINK	SMITH & GREENE	INDIRECT		3/4" 1/2"	3/4" 1/2"	3-COMP SINK, VENTLESS DISHWASHER AND TABLE ASSEMBLY. TYPE 304 SS SINK. INCLUDED: (1) T&S PRE-RINSE #B-0133-B08, (1) T&S FAUCET B-0156 AND (3) ROTARY BALL DRAINS.	36/P	FOOD SERVICE	(1)(4)	LH-BS AG LH-BS/BP AVB
819	F-25	PIZZA SAUCER				1/2" @16"				FOOD SERVICE	(1)	N/A

(1) EQUIPMENT FURNISHED BY THE OWNER. THE MECHANICAL CONTRACTOR SHALL ROUGH-IN PLUMBING, INSTALL AND CONNECT ALL SERVICES.
(2) EQUIPMENT FURNISHED BY THE OWNER, SET BY THE VENDOR, PLUMBED BY THE MECHANICAL CONTRACTOR.
(3) EQUIPMENT FURNISHED BY THE OWNER. EQUIPMENT WILL BE SET AND PIPED BY THE FOOD SERICE EQUIPMENT SUPPLIER.
(4) CONTRACTOR TO PROVIDE 90 DEGREE ELBOW WITH BALL VALVE AND CHECK VALVE WITHIN 3" OF WALL.

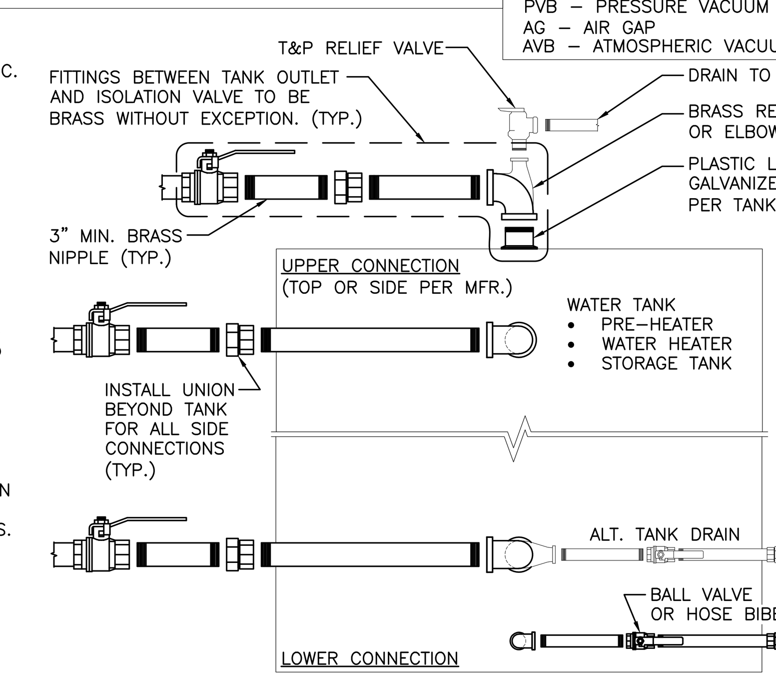
HAZARD TYPE	BACKFLOW POTENTIAL
LH – LOW HAZARD HH – HIGH HAZARD	BS – BACK SIPHONAGE BP – BACK PRESSURE

BACKFLOW PREVENTION
RPZ – REDUCED PRESSURE PRINCIPLE BACK FLOW
PVB – PRESSURE VACUUM BREAKER
AG – AIR GAP
AVB – ATMOSPHERIC VACUUM BREAKER



METER	STRAIGHT PIPE INLET (A)	STRAIGHT PIPE OUTLET (B)	LOCATION
	MINIMUM DIMENSION		
3/4"	7-1/2"	7-1/2"	FUEL RESTROOM
1"	10"	10"	REFRIGERATOR CONDENSER
1-1/2"	15"	15"	IRRIGATION
2"	20"	20"	BUILDING SERVICE

WATER METER PIPING DETAIL
SCALE: NONE REV: ML/03-25/master\2024\920-929\24-926
111



TANK PIPING CONNECTIONS
SCALE: NONE REV: SI/11-24/24-000
064

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/26/2026 4:03:55

ISSUED FOR PERMIT

STATE OF MISSOURI PAAL K. RYAN NUMBER PE-2024036519 PROFESSIONAL ENGINEER 12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

© T.E., Inc. All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

COSTCO WHOLESALE
NEW WAREHOUSE
LEE'S SUMMIT, MO
#___

TEI #: 25-346
PM: CWC
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

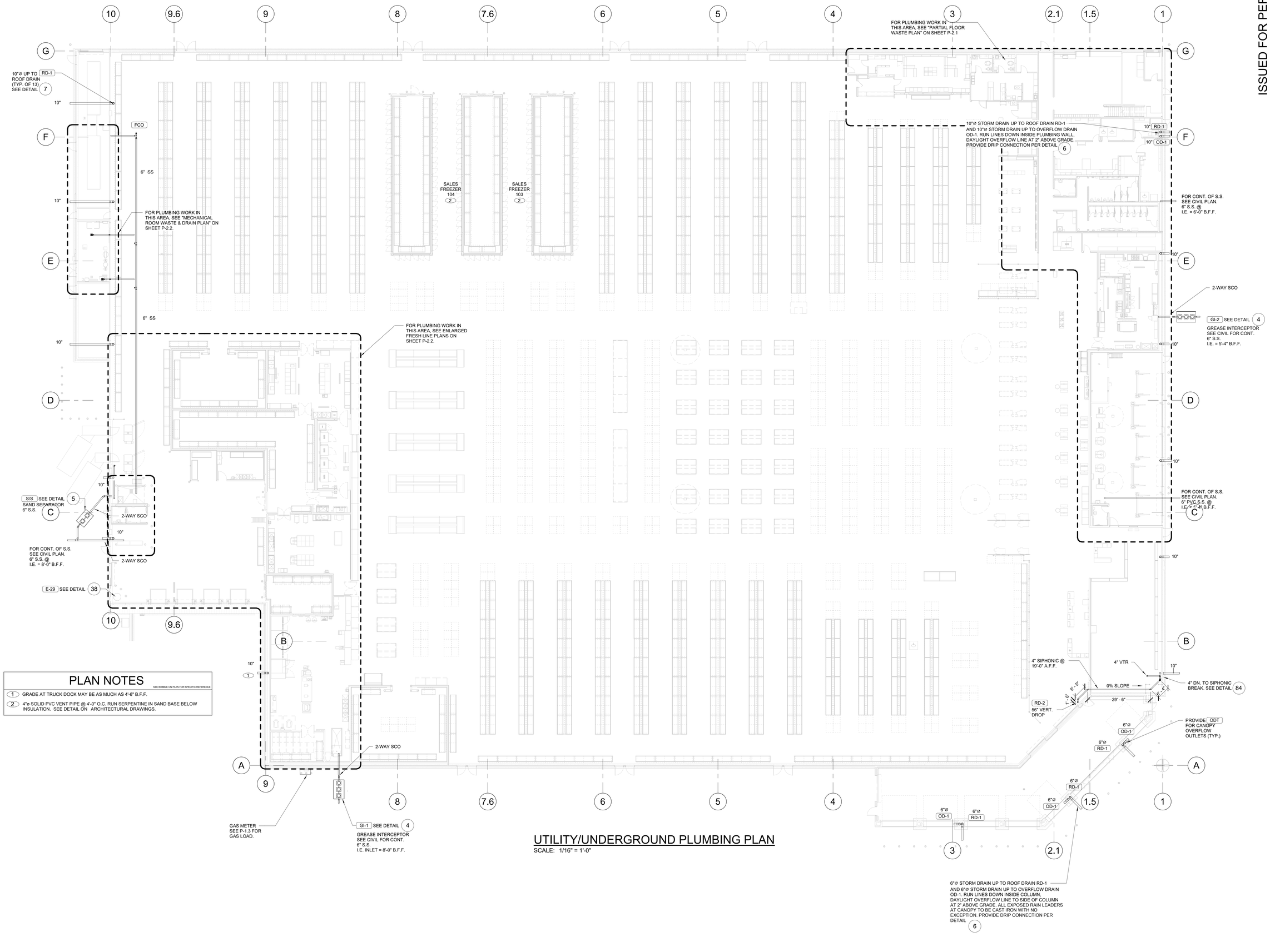
PLUMBING SCHEDULES

P-0.2

K:\2025\340-349\25-346 – Costco – Lee's Summit – MO – New_346P-0.2.dwg, 12/23/2025 12:01:52 PM, jseferian
C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt
12/23/2025 11:53:17 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 4:03:55

ISSUED FOR PERMIT



PLAN NOTES

SEE BUBBLE ON PLAN FOR SPECIFIC REFERENCE

1. GRADE AT TRUCK DOCK MAY BE AS MUCH AS 4'-6" B.F.F.
2. 4"ø SOLID PVC VENT PIPE @ 4'-0" O.C. RUN SERPENTINE IN SAND BASE BELOW INSULATION. SEE DETAIL ON ARCHITECTURAL DRAWINGS.

UTILITY/UNDERGROUND PLUMBING PLAN

SCALE: 1/16" = 1'-0"

PAAL K. RYAN
NUMBER
PE-2024036519
PROFESSIONAL ENGINEER
STATE OF MISSOURI
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

	DATE	DESCRIPTION
1	11/26/25	ISSUED FOR QA
2	12/23/25	ISSUED FOR PERMIT

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E. Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-3746
FAX: 425-970-3756

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#____

TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

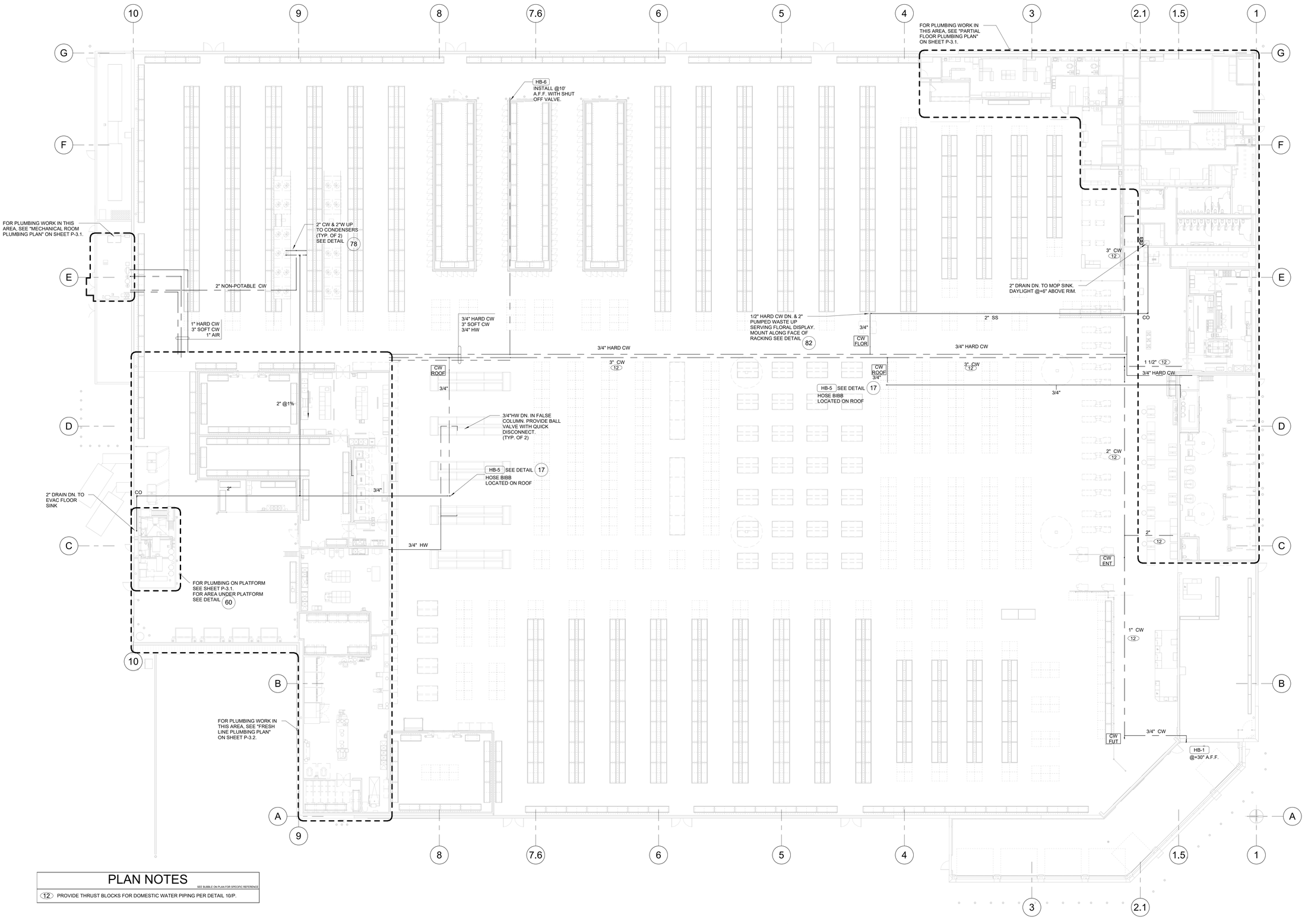
UTILITY/UNDERGROUND PLUMBING PLAN

P-1.1

12/23/2025 12:05:08 PM C:\Users\jseferian\Documents_346_MP_CENTRAL_2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:55

ISSUED FOR PERMIT



PLAN NOTES

SEE BUBBLE ON PLAN FOR SPECIFIC REFERENCE

(12) PROVIDE THRUST BLOCKS FOR DOMESTIC WATER PIPING PER DETAIL 10/P.

MAIN PLUMBING PLAN

SCALE: 1/16" = 1'-0"

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

	DATE	DESCRIPTION
1	11/26/25	ISSUED FOR QA
2	12/23/25	ISSUED FOR PERMIT

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without written permission or erasing from T.E. Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE 425-970-7753
FAX 425-970-3736

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#____

TEI #: 25-346
PM: CWC
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

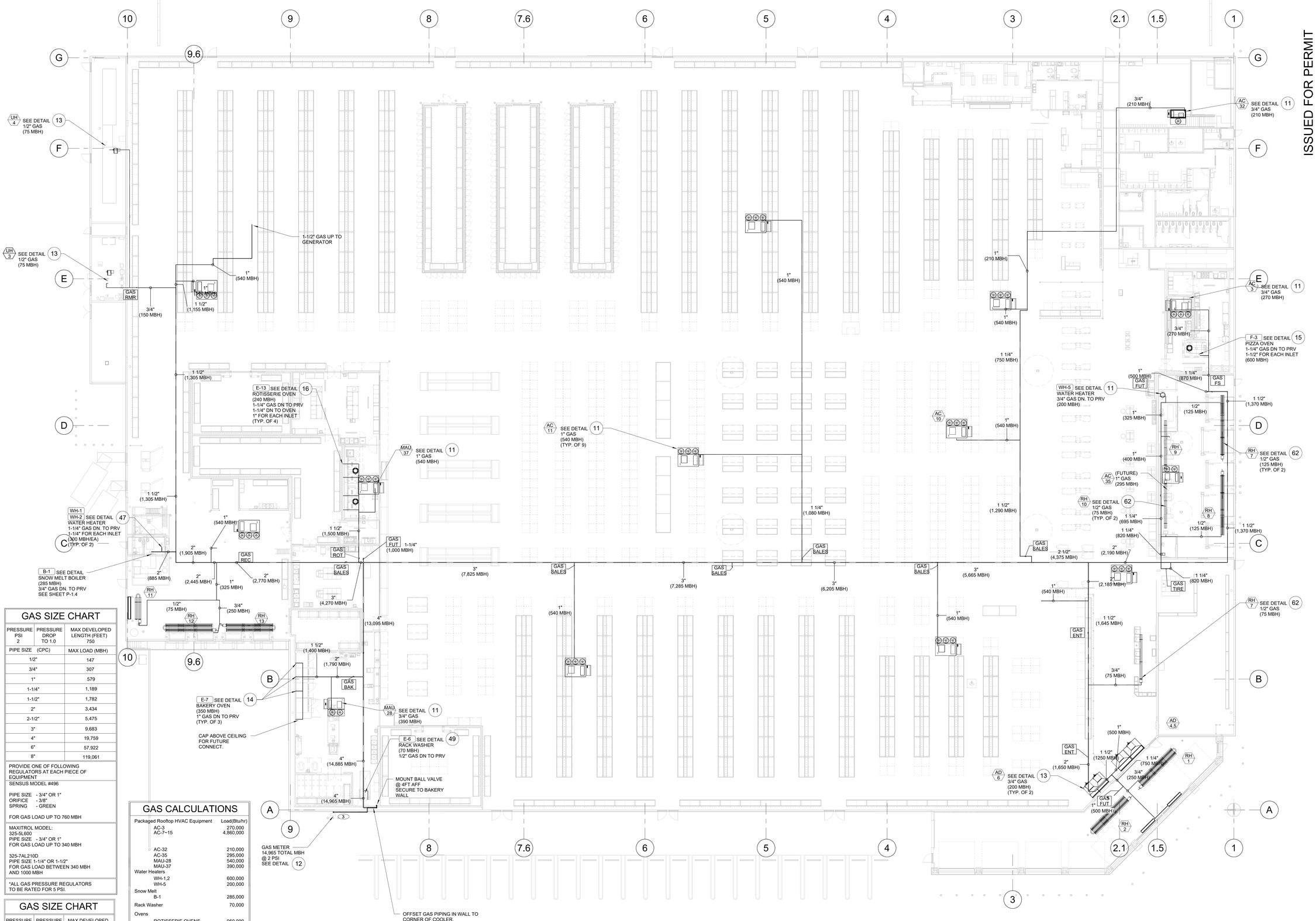
MAIN PLUMBING PLAN

P-1.2

12/23/2025 12:05:27 PM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2026 4:03:55

ISSUED FOR PERMIT



GAS PIPING PLAN

SCALE: 1/16" = 1'-0"

GAS SIZE CHART

PRESSURE PSI 2	PRESSURE DROP TO 1.0	MAX DEVELOPED LENGTH (FEET) 750
PIPE SIZE	(CPC)	MAX LOAD (MBH)
1/2"		147
3/4"		307
1"		579
1-1/4"		1,189
1-1/2"		1,782
2"		3,434
2-1/2"		5,475
3"		9,683
4"		19,759
6"		57,922
8"		119,061

PROVIDE ONE OF FOLLOWING REGULATORS AT EACH PIECE OF EQUIPMENT

SENSUS MODEL #496

PIPE SIZE - 3/4" OR 1"
ORIFICE - 3/8"
SPRING - GREEN

FOR GAS LOAD UP TO 760 MBH

MAXITROL MODEL:
325-5L600
PIPE SIZE - 3/4" OR 1"
FOR GAS LOAD UP TO 340 MBH

325-7AL210D
PIPE SIZE 1-1/4" OR 1-1/2"
FOR GAS LOAD BETWEEN 340 MBH AND 1000 MBH

*ALL GAS PRESSURE REGULATORS TO BE RATED FOR 5 PSI.

GAS SIZE CHART

PRESSURE IN WC 7	PRESSURE DROP TO 6.5	MAX DEVELOPED LENGTH (FEET) 100
PIPE SIZE	(UPC)	MAX LOAD (MBH)
1/2"		45
3/4"		94
1"		177
1-1/4"		363
1-1/2"		544
2"		1,048
2-1/2"		1,672
3"		2,956
4"		6,032
6"		17,683
8"		36,348

GAS CALCULATIONS

Packaged Rooftop HVAC Equipment	Load(Btu/hr)
AC-3	270,000
AC-7~15	4,860,000
AC-32	210,000
AC-35	295,000
MAU-28	540,000
MAU-37	390,000
Water Heaters	
WH-1,2	600,000
WH-5	200,000
Snow Melt	
B-1	285,000
Rack Washer	70,000
Ovens	
ROTISSERIE OVENS	960,000
PIZZA OVEN	600,000
BAKERY OVENS	1,400,000
Radiant Heaters	
RH-1,2	250,000
RH-7,8	250,000
RH-9,10	150,000
RH-11,12,13	325,000
Unit Heaters	
UH-3,4	150,000
Air Doors	
AD-4,5	500,000
AD-6	400,000
Refrigeration Equipment	
Generator	540,000
Future Loads	1,930,000
TOTAL GAS LOAD	14,965,000

4" GAS LINE IS REQ'D @ 2 PSI.

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

PAUL K. RYAN NUMBER PE-2024036519 PROFESSIONAL ENGINEER STATE OF MISSOURI
12/23/2025

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means electronic or mechanical, including fotocopying, recording or by any information storage and retrieval system without written permission in writing from T.E. Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425-970-3753
FAX: 425-970-3736

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#_ _ _

TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

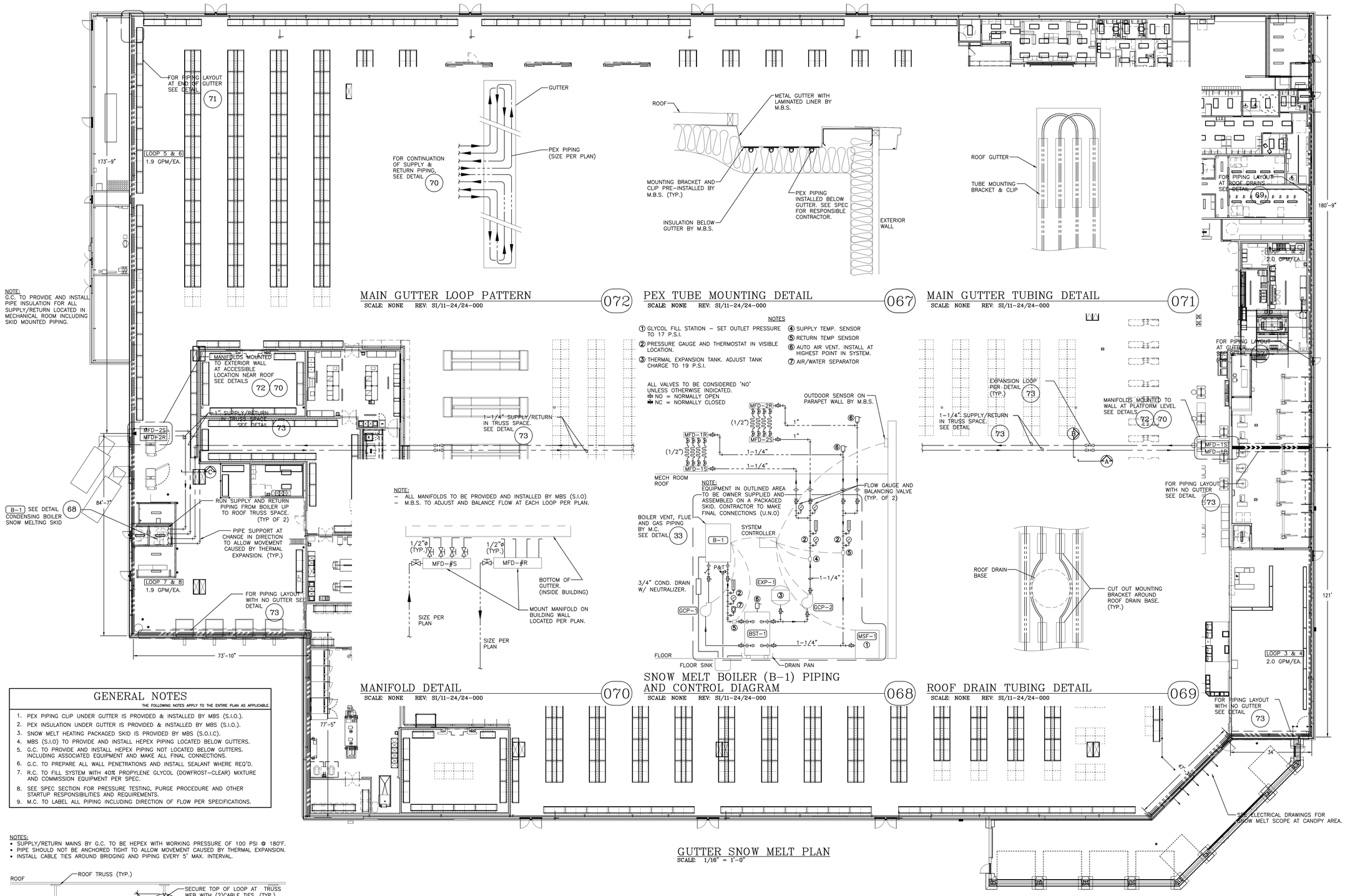
GAS PIPING PLAN AND GAS CALCULATIONS

P-1.3

12/23/2025 12:05:46 PM C:\Users\jseferian\Documents_346_MP_CENTRAL_2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:55

ISSUED FOR PERMIT



MAIN GUTTER LOOP PATTERN 072
SCALE: NONE REV: SI/11-24/24-000

PEX TUBE MOUNTING DETAIL 067
SCALE: NONE REV: SI/11-24/24-000

MAIN GUTTER TUBING DETAIL 071
SCALE: NONE REV: SI/11-24/24-000

NOTE:
- ALL MANIFOLDS TO BE PROVIDED AND INSTALLED BY MBS (S.I.O)
- M.B.S. TO ADJUST AND BALANCE FLOW AT EACH LOOP PER PLAN.

MANIFOLD DETAIL 070
SCALE: NONE REV: SI/11-24/24-000

NOTES
1. GLYCOL FILL STATION - SET OUTLET PRESSURE TO 17 P.S.I.
2. PRESSURE GAUGE AND THERMOSTAT IN VISIBLE LOCATION.
3. THERMAL EXPANSION TANK. ADJUST TANK CHARGE TO 19 P.S.I.
4. SUPPLY TEMP. SENSOR
5. RETURN TEMP SENSOR
6. AUTO AIR VENT. INSTALL AT HIGHEST POINT IN SYSTEM.
7. AIR/WATER SEPARATOR

ALL VALVES TO BE CONSIDERED 'NO' UNLESS OTHERWISE INDICATED.
NO = NORMALLY OPEN
NC = NORMALLY CLOSED

SNOW MELT BOILER (B-1) PIPING AND CONTROL DIAGRAM 068
SCALE: NONE REV: SI/11-24/24-000

ROOF DRAIN TUBING DETAIL 069
SCALE: NONE REV: SI/11-24/24-000

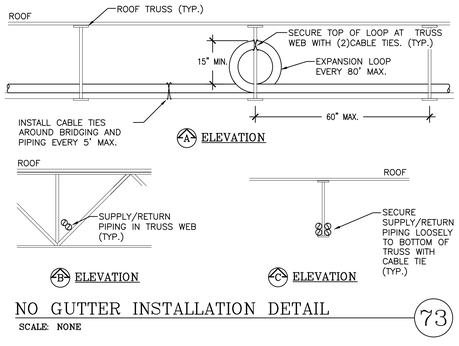
GUTTER SNOW MELT PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES

THE FOLLOWING NOTES APPLY TO THE ENTIRE PLAN AS APPLICABLE.

1. PEX PIPING CLIP UNDER GUTTER IS PROVIDED & INSTALLED BY MBS (S.I.O.).
2. PEX INSULATION UNDER GUTTER IS PROVIDED & INSTALLED BY MBS (S.I.O.).
3. SNOW MELT HEATING PACKAGED SKID IS PROVIDED BY MBS (S.O.I.C).
4. MBS (S.I.O) TO PROVIDE AND INSTALL HEPEX PIPING LOCATED BELOW GUTTERS.
5. G.C. TO PROVIDE AND INSTALL HEPEX PIPING NOT LOCATED BELOW GUTTERS. INCLUDING ASSOCIATED EQUIPMENT AND MAKE ALL FINAL CONNECTIONS.
6. G.C. TO PREPARE ALL WALL PENETRATIONS AND INSTALL SEALANT WHERE REQ'D.
7. R.C. TO FILL SYSTEM WITH 40% PROPYLENE GLYCOL (DOWFROST-CLEAR) MIXTURE AND COMMISSION EQUIPMENT PER SPEC.
8. SEE SPEC SECTION FOR PRESSURE TESTING, PURGE PROCEDURE AND OTHER STARTUP RESPONSIBILITIES AND REQUIREMENTS.
9. M.C. TO LABEL ALL PIPING INCLUDING DIRECTION OF FLOW PER SPECIFICATIONS.

NOTES:
- SUPPLY/RETURN MAINS BY G.C. TO BE HEPEX WITH WORKING PRESSURE OF 100 PSI @ 180°F.
- PIPE SHOULD NOT BE ANCHORED TIGHT TO ALLOW MOVEMENT CAUSED BY THERMAL EXPANSION.
- INSTALL CABLE TIES AROUND BRIDGING AND PIPING EVERY 5' MAX. INTERVAL.



NO GUTTER INSTALLATION DETAIL 73
SCALE: NONE

SEQUENCE OF OPERATIONS

OUTDOOR TEMP. (°F)	DESCRIPTION
GREATER THAN 40	- ALL SYSTEMS OFF
40	- PRIMARY PUMP (GCP-2) ON - BOILER ON (SET POINT = 110°F)
40 TO -10	- BOILER SET POINT TO INCREASE PROPORTIONALLY FROM 110 TO 180 WITH DECREASE IN TEMP.
LESS THAN -10	- BOILER SET POINT = 180°F

HEATING COMPONENT FAILURE MODE:
-ALARM CONDITION FOR SYSTEM PUMP (GCP-2) OR BOILER (B-1) FAILURE.

PLUMBING LEGEND

	COLD WATER
	HOT WATER
	HOT WATER CIRCULATION
	RPPB/RPZ
	DRAIN VALVE
	THERMOMETER
	UNION
	VALVE - WEIGHTED
	VALVE - BALL
	VALVE - GATE
PRV	VALVE - PRESSURE REDUCING
	MIXING VALVE
	PRESSURE GAUGE
	AIR/WATER SEPARATOR
TYP.	TYPICAL

SNOWMELT EQUIPMENT SCHEDULE - S.O.I.C.

SYMBOL	DESCRIPTION	MFR./MODEL	SPECIFICATIONS
B-1	CONDENSING BOILER	LAARS NEOTHERM NTH 285	95.0% HIGH EFFICIENCY STAINLESS STEEL MODULATING BOILER. 285 MBH INPUT/264 MBH OUTPUT; STAINLESS STEEL HEAT EXCHANGER. PROVIDE CONCENTRIC VENT KIT AND CONDENSATE NEUTRALIZER.
BST-1	STORAGE/BUFFER TANK	HTP SSU-20B	20 GALLON STAINLESS STEEL BUFFER TANK. 1-1/2" INLET/OUTLET.
EXP-1	EXPANSION TANK	ARMSTRONG AST-20	DIAPHRAGM TYPE EXPANSION TANK. ASME RATED. TOTAL VOLUME 8 GAL. 150 PSIG WORKING PRESSURE.
MSF-1	GLYCOL FILL STATION	AXIOM MF200	HYDRONIC SYSTEM FEEDER. 6.6 GAL STORAGE TANK WITH 0.7 GPM PUMP. 10 PSIG TO 24 PSIG WORKING PRESSURE. 120 VOLT, 1 PHASE, 60 HZ, 50 WATTS.
GCP-1	CIRCULATOR	ARMSTRONG E7.2	CAST IRON HOUSING, CORROSION-RESISTANT IMPELLER, SINGLE SPEED CIRCULATOR. 15 GPM @ 12' HEAD, 115V/60 HZ/1ø, 1/6 HP, 2.0 FLA. 13.1 LBS.
GCP-2	CIRCULATOR	EBARA EVMSU3-5	SS MULTI-STAGE PUMP, 1 HP, 208 VOLT, 3 PHASE, 60 HZ. INTEGRATED VFD/MOTOR. MAXIMUM FLOW: 16 GPM, MAXIMUM 140 FT HEAD, 79.8 LBS.

NOTE:
- SKID POWERED BY SINGLE POINT ELECTRICAL CONNECTION 208V/3ø 11.7 FLA, 15A MCOP
- LOW VOLTAGE CONNECTIONS BY M.C.
- ALL EQUIPMENT SPECIFIED TO BE PRE PIPED AND INSTALLED ON OWNER SUPPLIED SKID.
- CONTRACTOR TO RECEIVE, SET AND MAKE ALL FINAL CONNECTIONS.

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-3763
FAX: 425-970-3766

©T.E. Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E. Inc.

NEW WAREHOUSE
LEE'S SUMMIT, MO

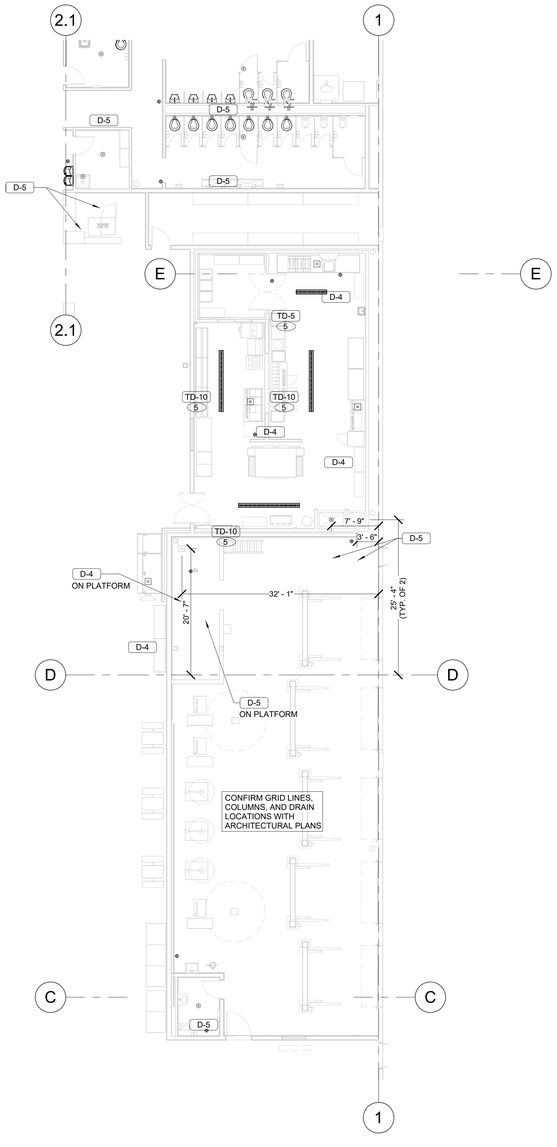
COSTCO WHOLESALE
#___

TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

GUTTER SNOW MELT PLAN, LEGEND, DETAILS, SCHEDULE AND NOTES

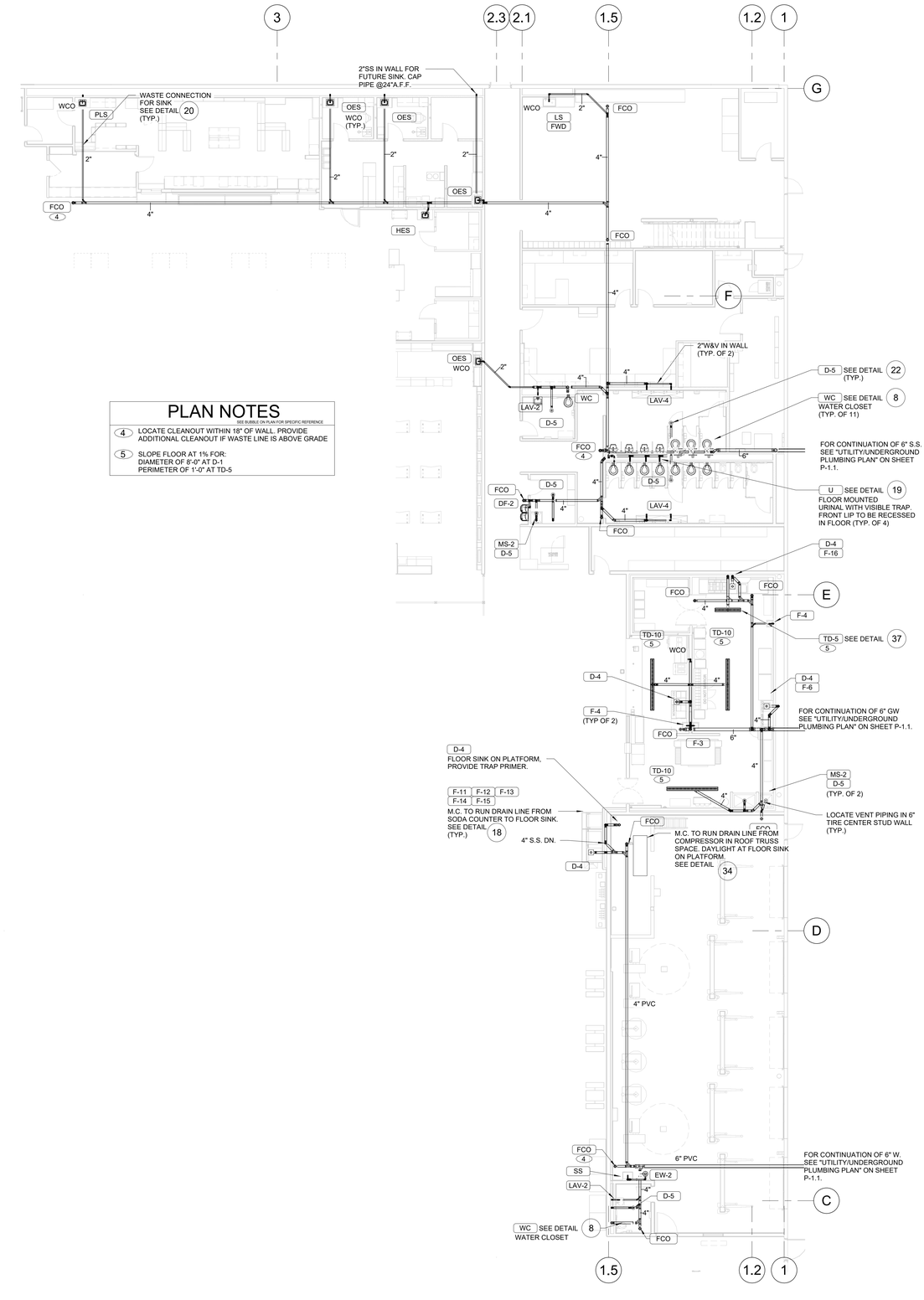
P-1.4

C:\Users\jseferian\Documents_346_MP_CENTRAL_2023_jseferian33SXA.rvt 12/23/2025 11:53:17 AM



FRONT END DRAIN PLAN

SCALE: 1" = 10'-0"



FRONT END WASTE PLAN

SCALE: 1" = 10'-0"

PLAN NOTES

SEE BUBBLE ON PLAN FOR SPECIFIC REFERENCE

4 LOCATE CLEANOUT WITHIN 18" OF WALL. PROVIDE ADDITIONAL CLEANOUT IF WASTE LINE IS ABOVE GRADE

5 SLOPE FLOOR AT 1% FOR:
DIAMETER OF 8'-0" AT D-1
PERIMETER OF 1'-0" AT TD-5

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:55

ISSUED FOR PERMIT

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425-970-3753
FAX: 425-970-3736

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without prior written permission in writing from T.E., Inc.

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

___

TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

FRONT END WASTE & DRAIN PLANS

P-2.1

12/23/2025 12:05:58 PM C:\Users\jseferian\Documents_346_MP_CENTRAL_2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:55

ISSUED FOR PERMIT

	DATE	DESCRIPTION
1	11/26/25	ISSUED FOR QA
2	12/23/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without written permission of writing from T.E., Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425-970-7753
FAX: 425-970-3746

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#____

TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

FRESH LINE WASTE & DRAIN PLANS

P-2.2

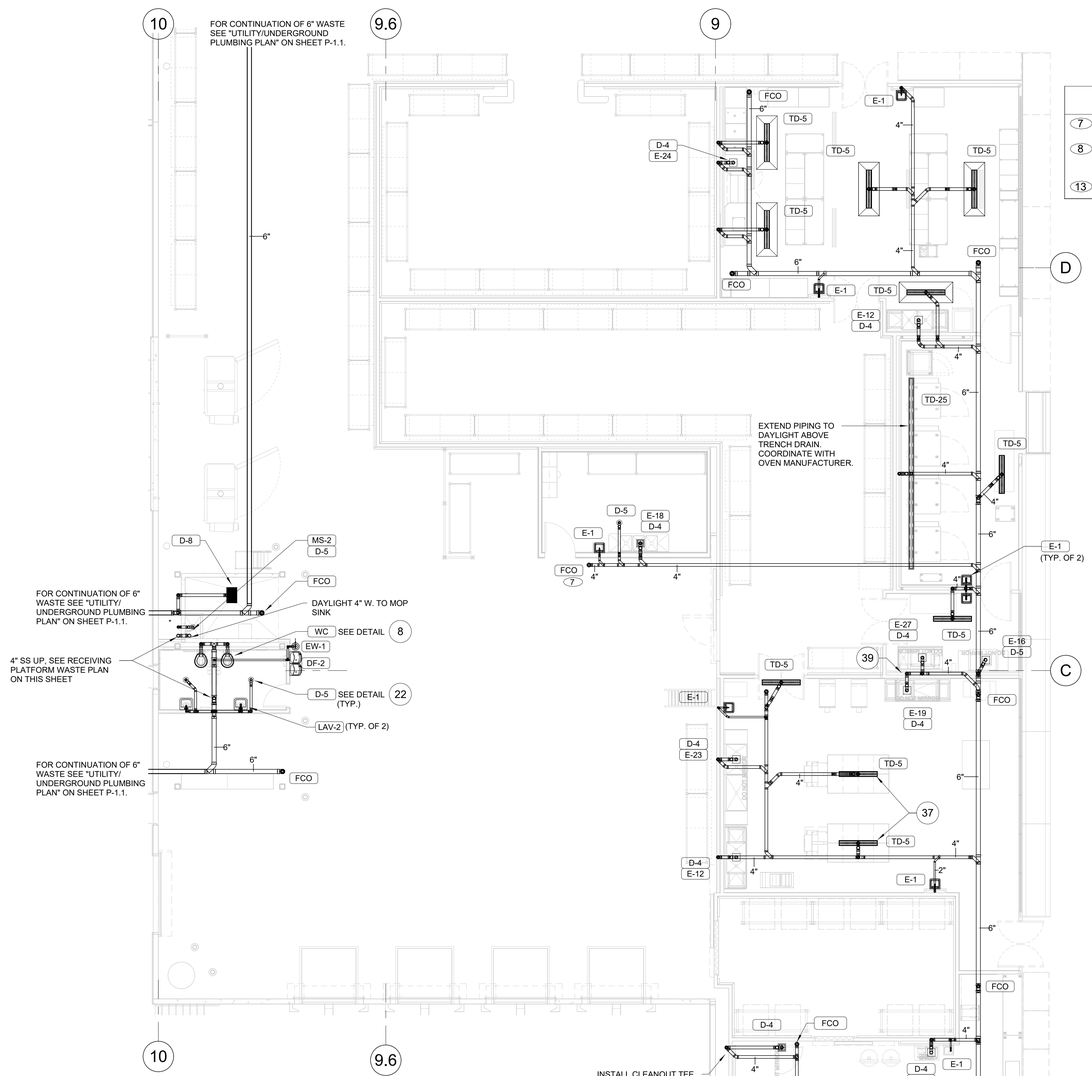
PLAN NOTES

SEE BUBBLE ON PLAN FOR SPECIFIC REFERENCE

(7) LOCATE FLOOR CLEAN OUT WITHIN 18" OF WALL. FOR SALES FLOOR CLEAN OUT LOCATE OUTSIDE OF FORK LIFT DRIVE AISLE (UNDER RACKING).

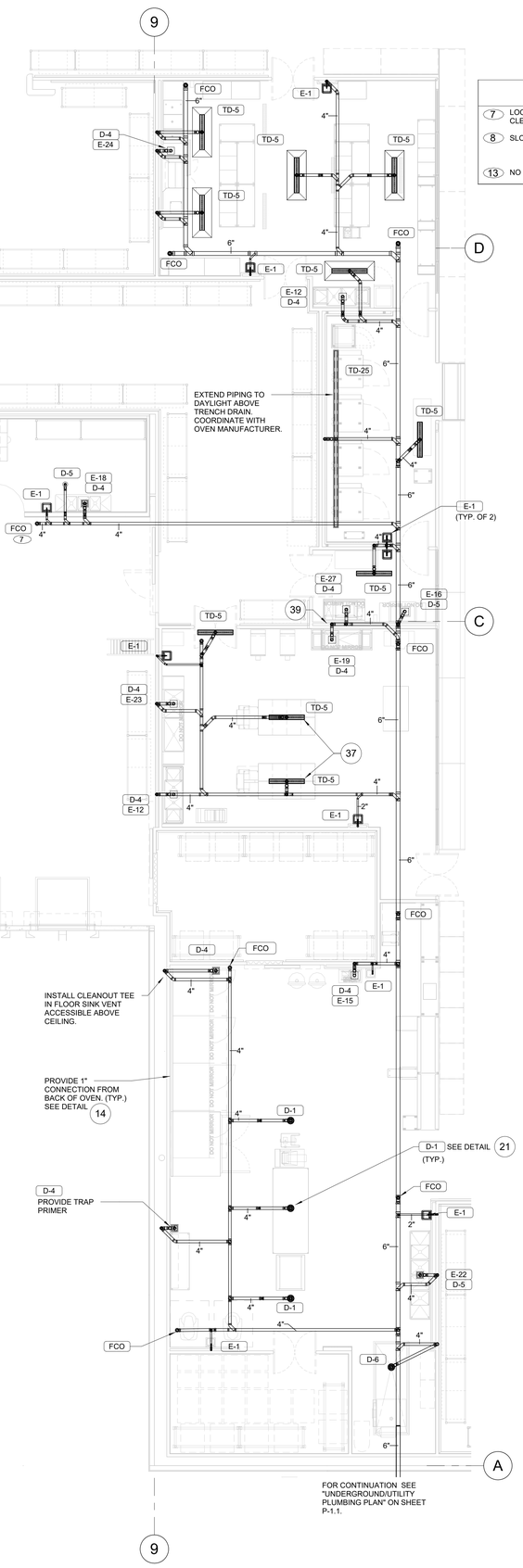
(8) SLOPE FLOOR AT 1% FOR:
DIAMETER OF 8'-0" AT D-1
PERIMETER OF 1'-0" AT TD-5

(13) NO FLOOR SLOPE AT PERIMETER OF DRAIN.



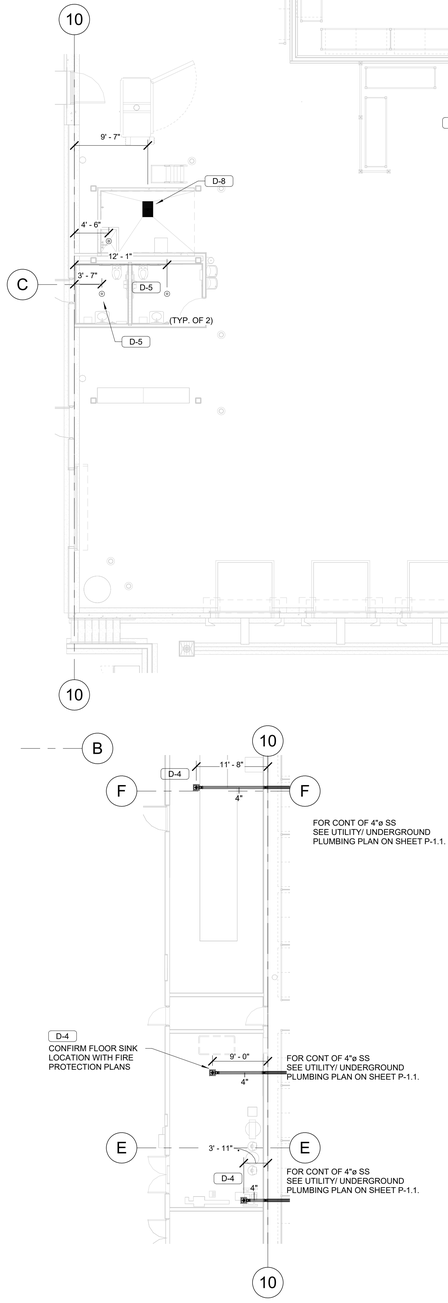
RECEIVING PLATFORM WASTE PLAN

SCALE: 1/8" = 1'-0"



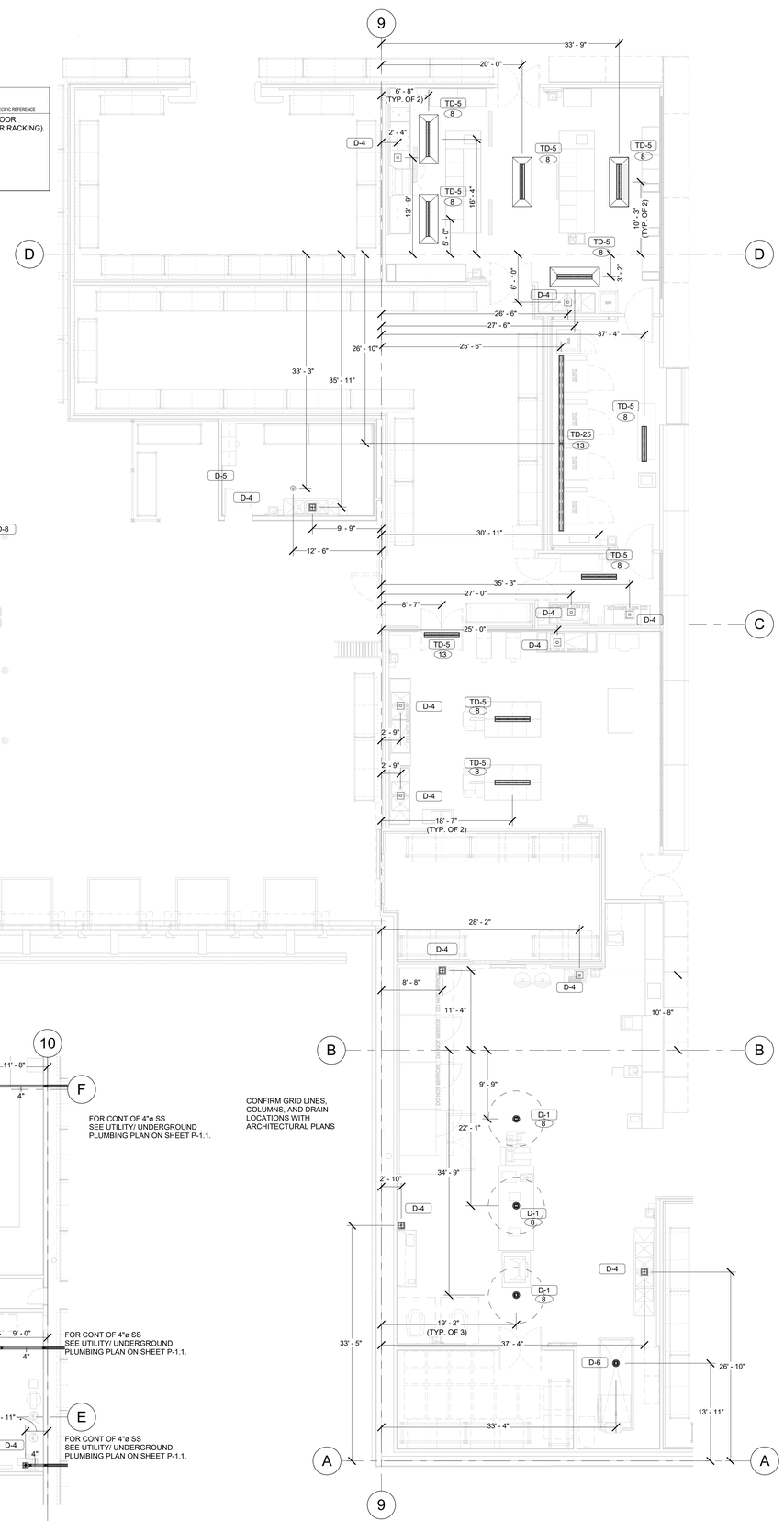
FRESH LINE WASTE PLAN

SCALE: 1/8" = 1'-0"



MECHANICAL ROOM WASTE & DRAIN PLAN

SCALE: 1" = 10'-0"



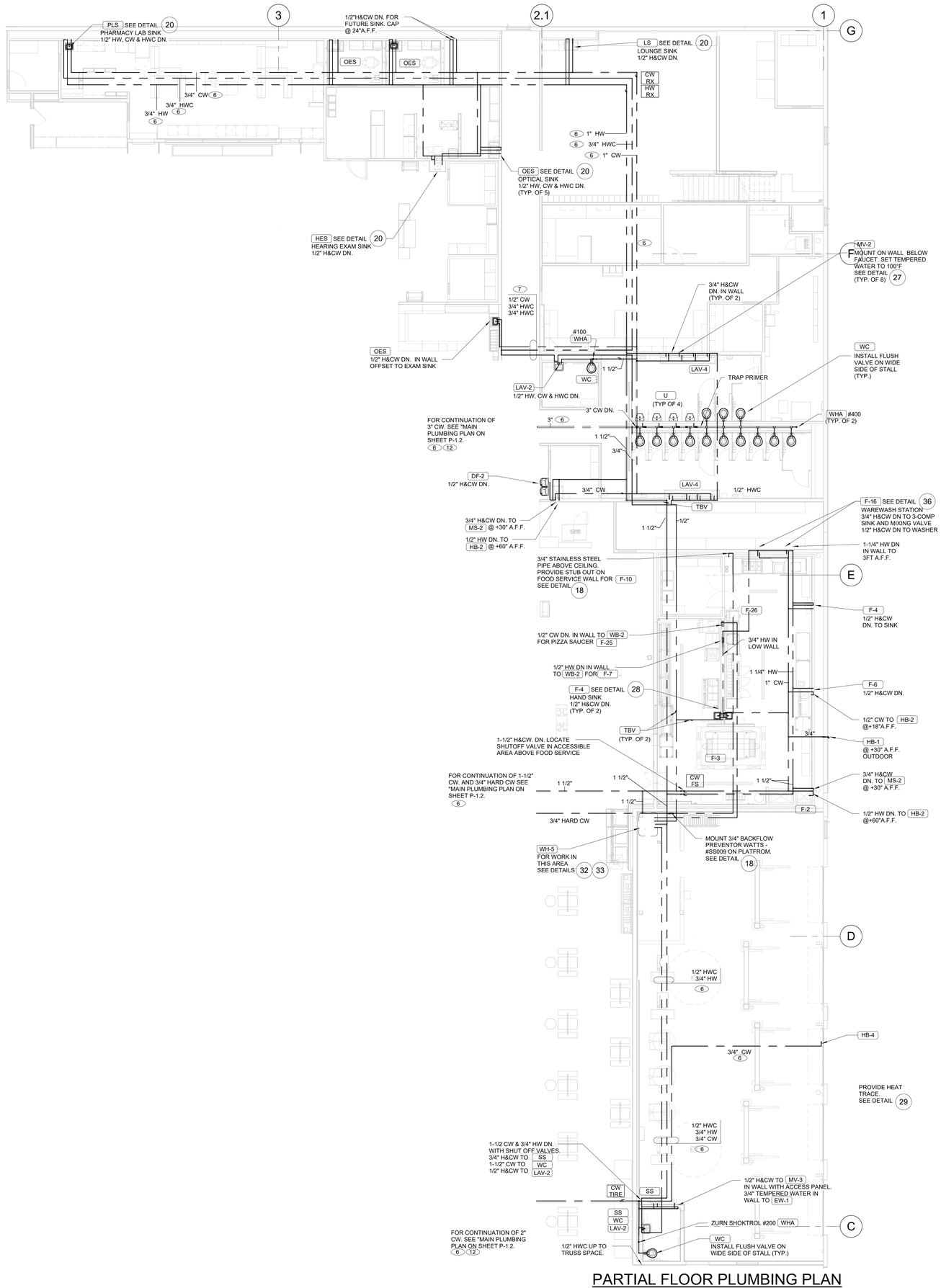
FRESH LINE DRAIN PLAN

SCALE: 1/8" = 1'-0"

12/23/2025 12:06:07 PM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:55

ISSUED FOR PERMIT



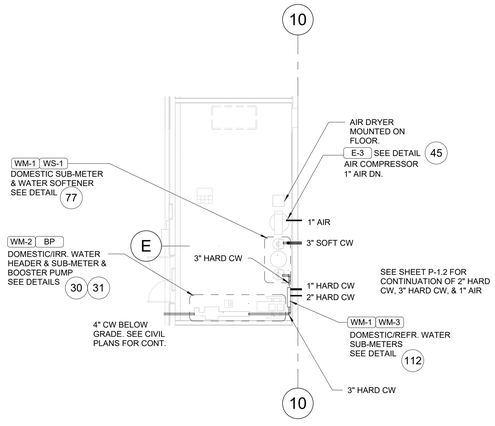
PARTIAL FLOOR PLUMBING PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES

SEE BUBBLE ON PLAN FOR SPECIFIC REFERENCE

6. PIPING IN ROOF TRUSS SPACE TO BE RUN PERPENDICULAR OR PARALLEL TO BUILDING JOIST OR GIRDERS, FOR PASSING BELOW SOLID GIRDERS MOUNT PIPING 6" MAXIMUM FROM BOTTOM OF GIRDER. DO NOT BLOCK LIGHTING & SKYLIGHTS.
7. ROUTE WATER PIPING IN HEADER ACROSS HALLWAY
10. DO NOT LOCATE ANY PIPING ABOVE REFRIGERATION RACK OR IN 10'-0" REFRIGERATION PIPE-WAY TO SALES FLOOR COOLERS. VERIFY PIPE-WAY LOCATION IN ARCH. DRAWINGS.
11. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
12. PROVIDE THRUST BLOCKS FOR DOMESTIC WATER PIPING PER DETAIL **10/P**.



MECHANICAL ROOM PLUMBING PLAN

SCALE: 1/8" = 1'-0"

STATE OF MISSOURI
PAUL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

	DATE	DESCRIPTION
1	11/26/25	ISSUED FOR QA
2	12/23/25	ISSUED FOR PERMIT

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425-970-7753
FAX: 425-970-3736

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

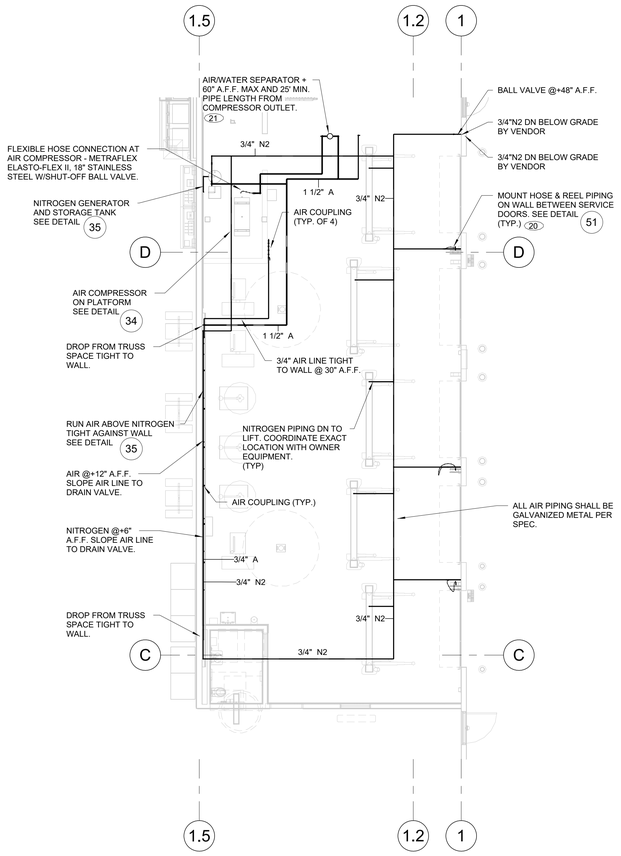
#___

TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

ENLARGED PLUMBING PLANS

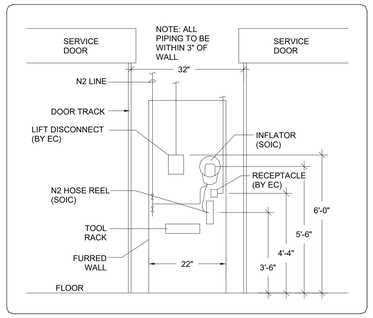
P-3.1

12/23/2025 12:06:14 PM C:\Users\jseferian\Documents_346_MP_CENTRAL_2023_jseferian33SXA.rvt



TIRE INSTALL AIR PIPING

SCALE: 1/8" = 1'-0"



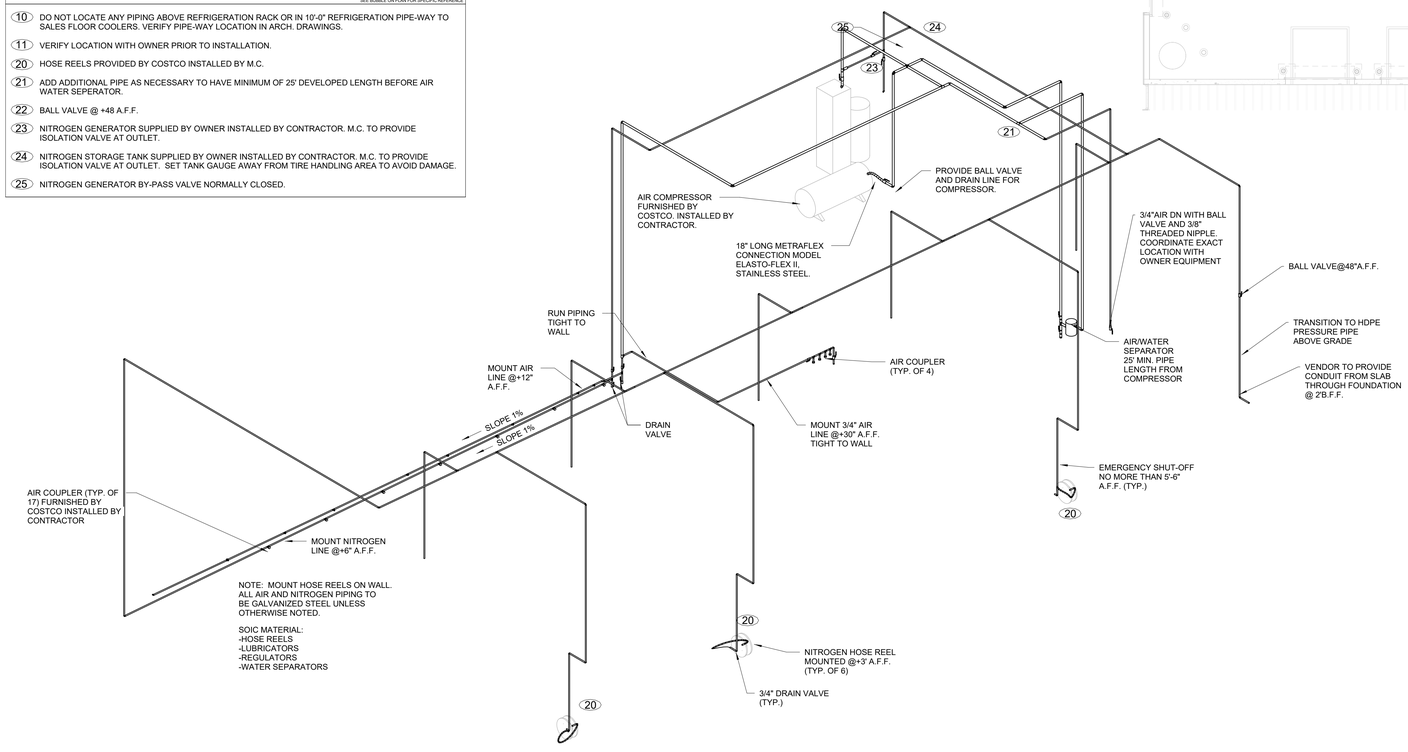
51 Hose Reel & Piping Elevation Detail

SCALE: N.T.S.

PLAN NOTES

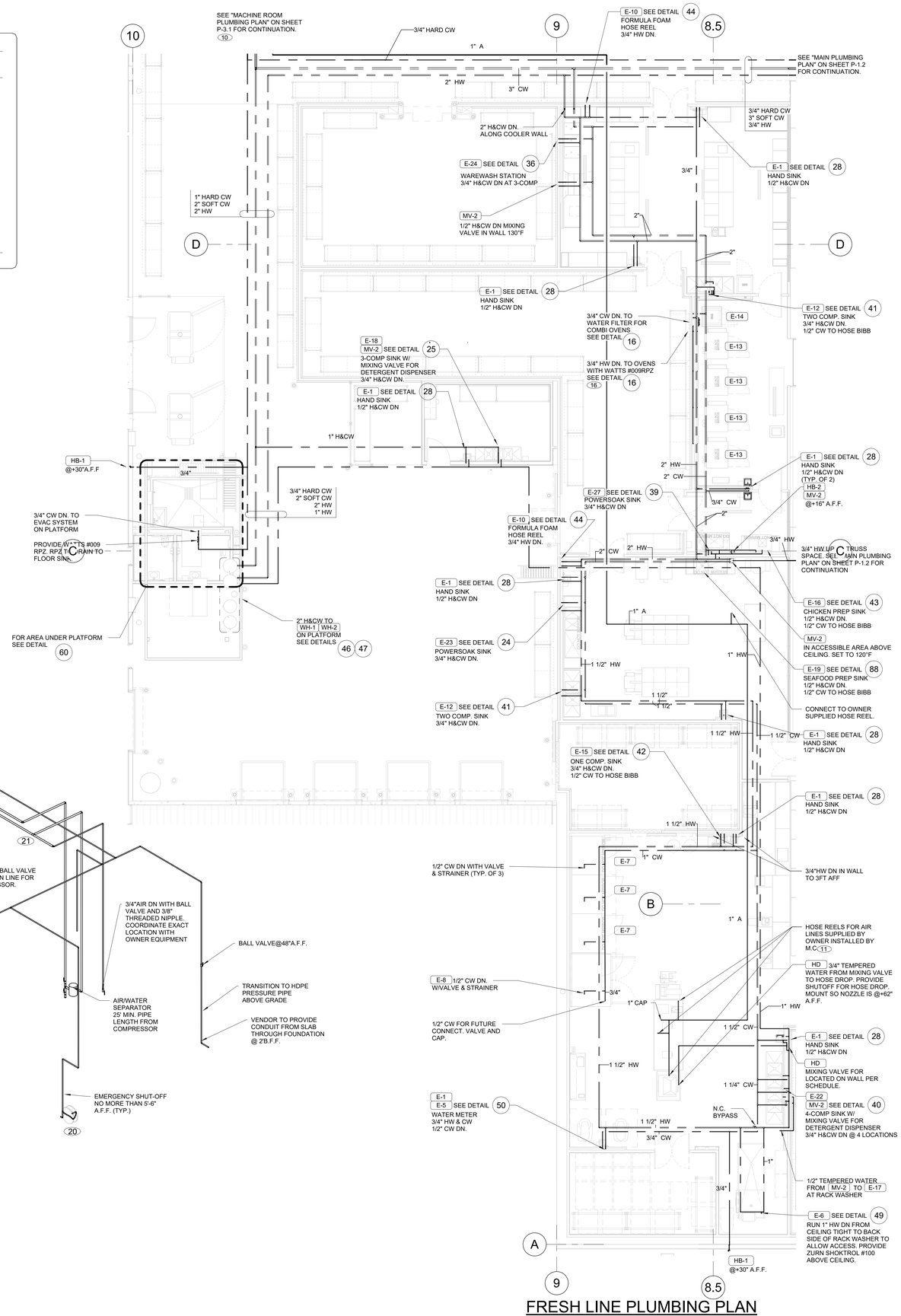
SEE BUBBLE ON PLAN FOR SPECIFIC REFERENCE

10. DO NOT LOCATE ANY PIPING ABOVE REFRIGERATION RACK OR IN 10'-0" REFRIGERATION PIPE-WAY TO SALES FLOOR COOLERS. VERIFY PIPE-WAY LOCATION IN ARCH. DRAWINGS.
11. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
20. HOSE REELS PROVIDED BY COSTCO INSTALLED BY M.C.
21. ADD ADDITIONAL PIPE AS NECESSARY TO HAVE MINIMUM OF 25' DEVELOPED LENGTH BEFORE AIR WATER SEPERATOR.
22. BALL VALVE @ +48 A.F.F.
23. NITROGEN GENERATOR SUPPLIED BY OWNER INSTALLED BY CONTRACTOR. M.C. TO PROVIDE ISOLATION VALVE AT OUTLET.
24. NITROGEN STORAGE TANK SUPPLIED BY OWNER INSTALLED BY CONTRACTOR. M.C. TO PROVIDE ISOLATION VALVE AT OUTLET. SET TANK GAUGE AWAY FROM TIRE HANDLING AREA TO AVOID DAMAGE.
25. NITROGEN GENERATOR BY-PASS VALVE NORMALLY CLOSED.



35 TIRE CENTER AIR PIPING

SCALE:



FRESH LINE PLUMBING PLAN

SCALE: 1/8" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:56

ISSUED FOR PERMIT

STATE OF MISSOURI
PAUL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

△	DATE	DESCRIPTION
	11/26/25	ISSUED FOR QA
	12/23/25	ISSUED FOR PERMIT

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE 425-970-2753
FAX 425-970-3736

© T.E. Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E. Inc.

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#___

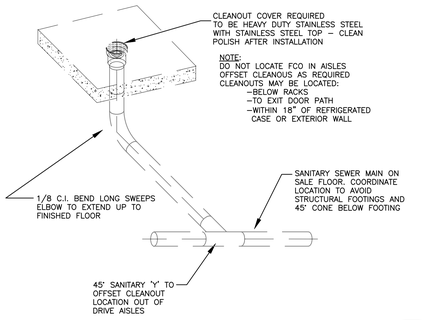
TEI #: 25-346
PM: JAR
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

TIRE AIR PIPING AND FRESH LINE PLUMBING PLAN

P-3.2

12/23/2025 12:06:26 PM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:56

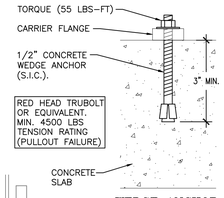


SALES FLOOR CLEAN OUT OFFSET DETAIL 002

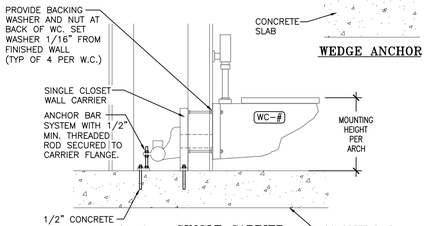
SCALE: NONE REV: SI/12-24/24-000

NOTES:

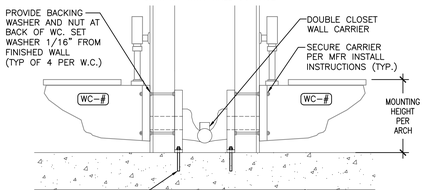
- SEE SPEC SECTION 220600 FOR APPROVED CARRIER MANUFACTURERS.
- ALL CARRIERS TO BE RATED FOR 500 LBS MIN. CAPACITY
- VERIFY NUMBER OF SINGLE/DOUBLE WALL CARRIER REQ'D PER PLAN.
- COORDINATE PLUMBING WALL THICKNESS WITH ARCH DRAWINGS PRIOR TO ORDERING.



WEDGE ANCHOR



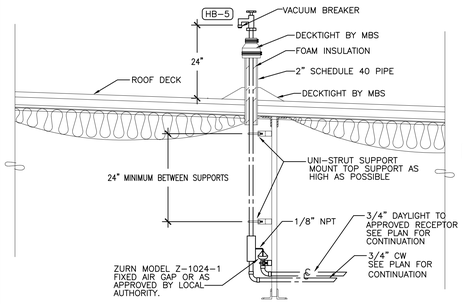
SINGLE CARRIER



DOUBLE CARRIER

WATER CLOSET CARRIERS 008

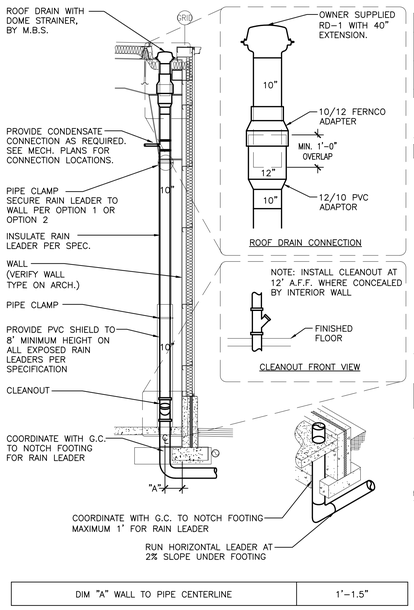
SCALE: NONE REV: SI/10-24/24-000



ROOF MOUNTED HOSE BIBB (HB-5) 017

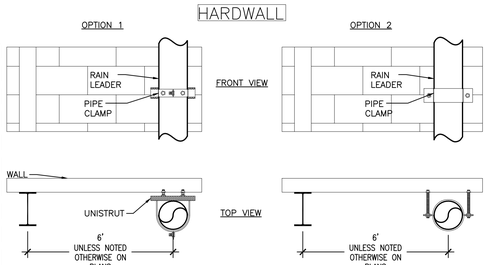
SCALE: NONE REV: SI/10-24/24-000

NOTE: ALL CLAMPS, THREAD, AND UNISTRUTS SHALL BE CONCEALED AND WITHIN THE LIMITS OF INSULATED PIPE WRAP.

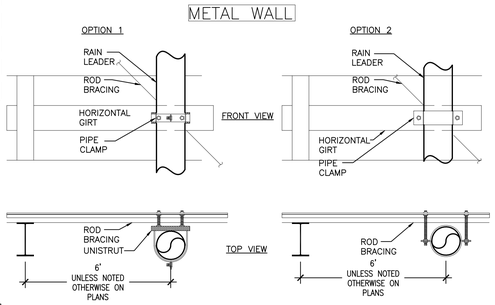


DIM "A" WALL TO PIPE CENTERLINE	1'-1.5"

HARDWALL

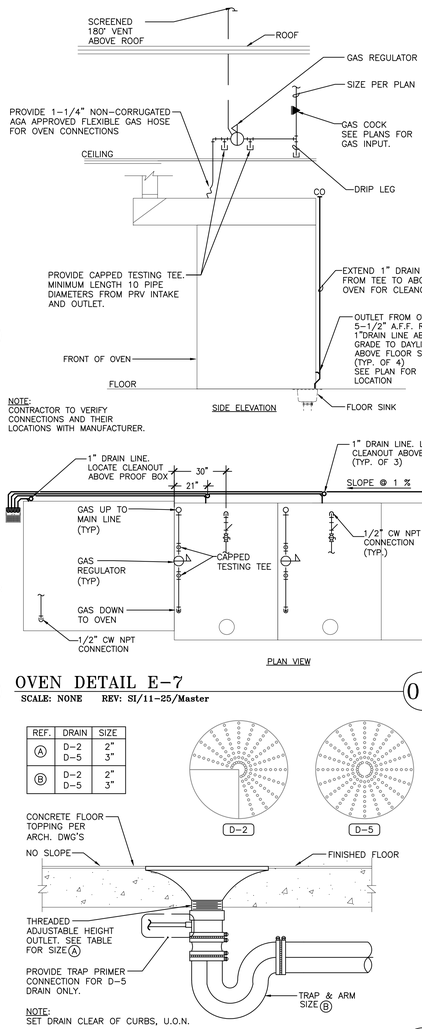


METAL WALL



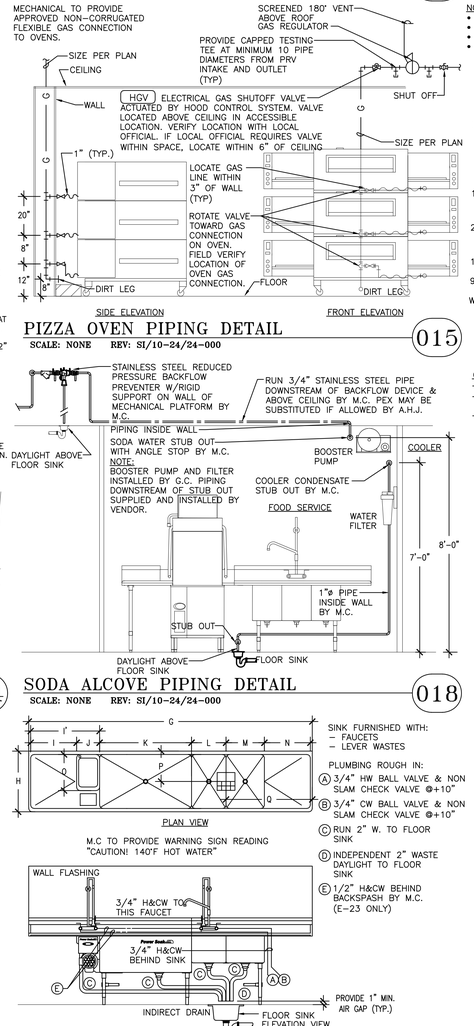
ROOF DRAIN WALL DETAIL 007

SCALE: NONE REV: SI/12-24/Master



OVEN DETAIL E-7 014

SCALE: NONE REV: SI/11-25/Master



PIZZA OVEN PIPING DETAIL 015

SCALE: NONE REV: SI/10-24/24-000

SODA ALCOVE PIPING DETAIL 018

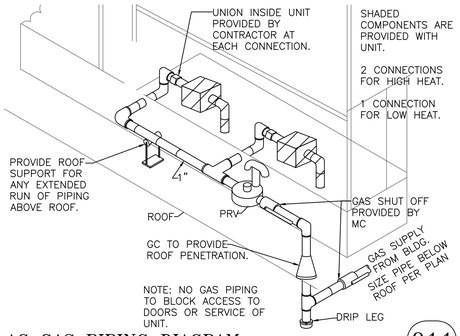
SCALE: NONE REV: SI/10-24/24-000

SINK FURNISHED WITH:
- FAUCETS
- LEVER WASTES

PLUMBING ROUGH IN:
- (A) 3/4" HW BALL VALVE & NON SLAM CHECK VALVE @+10"
- (B) 3/4" CW BALL VALVE & NON SLAM CHECK VALVE @+10"
- (C) RUN 2" W. TO FLOOR SINK
- (D) INDEPENDENT 2" WASTE DAYLIGHT TO FLOOR SINK
- (E) 1/2" H&CW BEHIND BACKSPASH BY M.C. (E-23 ONLY)

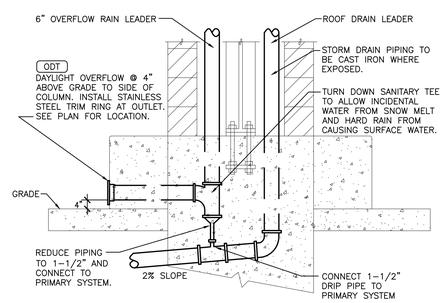
POWER WASH SINK (E-23) 024

SCALE: NONE REV: SI/12-24/Master



AC GAS PIPING DIAGRAM 011

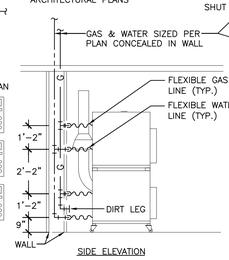
SCALE: NONE REV: SI/11-25/Master

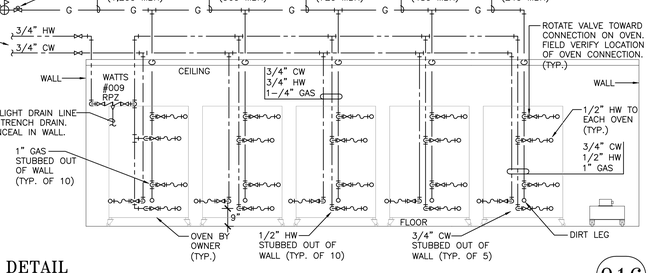


OVERFLOW DRIP PROOFING DETAIL 006

SCALE: NONE REV: SI/10-24/24-000

NOTE:
- ALL PIPING TO BE CONCEALED IN WALL
- PROVIDE COMBI OVENS WITH CW
- PROVIDE ROTISSERIE OVENS WITH HW
- VERIFY OVEN CONFIGURATION WITH ARCHITECTURAL PLANS

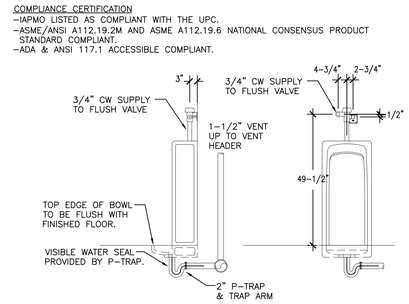




ROTISSERIE OVEN PIPING DETAIL 016

SCALE: NONE REV: SI/11-25/Master

COMPLIANCE CERTIFICATION
–IAPMO LISTED AS COMPLIANT WITH THE UPC.
–ASME/ANSI A112.19.2M AND ASME A112.19.6 NATIONAL CONSENSUS PRODUCT STANDARD COMPLIANT.
–ADA & ANSI 117.1 ACCESSIBLE COMPLIANT.

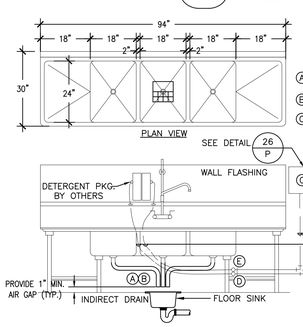


FLOOR MOUNTED URINAL DETAIL 019

SCALE: NONE REV: SI/10-24/24-000

DIMENSIONS

	MEAT PREP METCRAFT PS7304	DISH PREP METCRAFT PS7260
G	150"	166"
H	38-3/4"	38-3/4"
I	12"	12"
I'	24"	24"
J	12"	12"
K	60"	66"
L	20"	20"
M	20"	24"
N	26"	32"
O	20	20"
P	19-7/8"	19-7/8"
Q	46"	56"



SINK FURNISHED WITH:
- FAUCETS
- LEVER WASTES

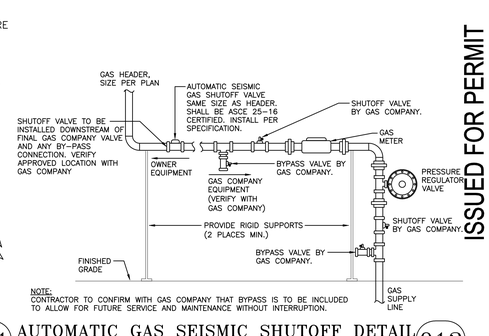
PLUMBING ROUGH IN:
- (A) 1/2" HW BALL VALVE & NON SLAM CHECK VALVE @+16"
- (B) 1/2" CW BALL VALVE & NON SLAM CHECK VALVE @+16"
- (C) (2)MV-2, MIXING VALVES @+48"
- (D) 3/4" TEMPERED WATER HB-2 @+16" FOR DETERGENT PKG.
- (E) 3/4" TEMPERED WATER HB-2 @+16" FOR SOAP DISPENSER

TRIPLE COMPARTMENT SINK (E-18) 025

SCALE: NONE REV: SI/10-24/24-000

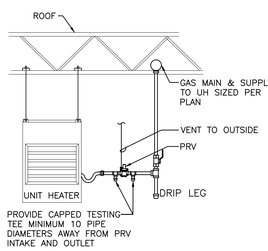
AUTOMATIC GAS SEISMIC SHUTOFF DETAIL 012

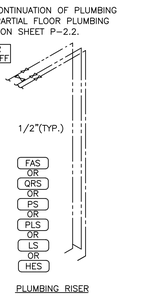
SCALE: NONE REV: SI/11-24/24-000

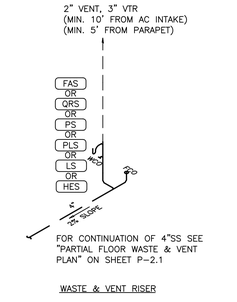


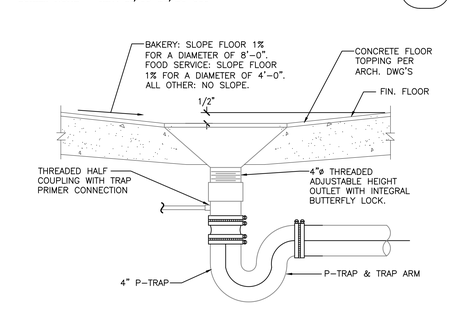
UNIT HEATER GAS PIPING DIAGRAM 013

SCALE: NONE REV: SI/10-24/24-000









FLOOR DRAIN TYPE D-1 021

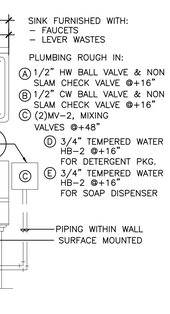
SCALE: NONE REV: SI/11-24/24-000

FLOOR DRAIN D-2 & D-5 022

SCALE: NONE REV: SI/10-24/24-000

COUNTER SINK PIPING DIAGRAM 020

SCALE: NONE REV: PR/01-25/Master



ISSUED FOR PERMIT

PAUL K. RYAN NUMBER PE-2024036519 PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

© T.E., Inc.
ALL RIGHTS RESERVED. No part of this document may be reproduced in any form or by any means without permission in writing from T.E. Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE 425-970-2763
FAX 425-970-3768

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE

#

TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

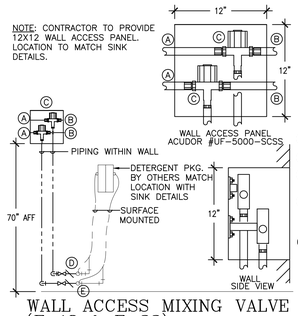
PLUMBING DETAILS

P-4.1

C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt
12/23/2025 11:53:17 AM
K:\2025\340-349\25-346 - Costco - Lee's Summit - MO - New_346P-4.1.dwg, 12/23/2025 12:01:58 PM, jseferian

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2024 4:03:56

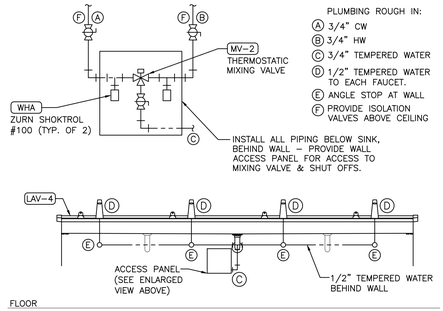
NOTE: CONTRACTOR TO PROVIDE 12X12 WALL ACCESS PANEL. LOCATION TO MATCH SINK DETAILS.



PLUMBING ROUGH IN @ SINKS:
- (A) 3/4" HW WALL STOP
- (B) 3/4" CW WALL STOP
- (C) MIXING VALVE MV-2 @+70"
- (D) 3/4" TEMPERED WATER HB-2 @+16" FOR SOAP DISPENSER (WASH COMPARTMENT)
- (E) 3/4" TEMPERED WATER HB-2 @+16" FOR SOAP DISPENSER (SANITIZING COMPARTMENT)

WALL ACCESS MIXING VALVE DETAIL (E-18 & E-22) 026

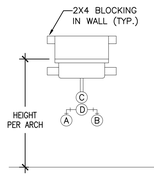
SCALE: NONE REV: SI/10-24/24-000



PLUMBING ROUGH IN:
- (A) 3/4" CW
- (B) 3/4" HW
- (C) 3/4" TEMPERED WATER
- (D) 1/2" TEMPERED WATER TO EACH FAUCET.
- (E) ANGLE STOP AT WALL
- (F) PROVIDE ISOLATION VALVES ABOVE CEILING

RESTROOM TROUGH SINK DETAIL (MV-2) 027

SCALE: NONE REV: SI/12-24/Master



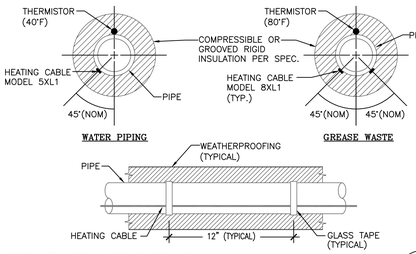
SINK FURNISHED WITH:
GOOSENECK SPOUT
KNEE OR FOOT VALVES
1-1/2" WASTE TAILPIECE
WALL BRACKET OR PEDESTAL

PLUMBING ROUGH IN:
- (A) 1/2"HW WALL STOP @ +16"
- (B) 1/2"CW WALL STOP @ +16"
- (C) 1-1/2" WASTE @ 20"
- (D) MC TO PROVIDE WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE TO REDUCE WATER TEMPERATURE TO 110° F ON ALL HAND SINKS LOCATED IN THE FOOD SERVICE, DELI, MEAT, ROTISSERIE AND BAKERY

HAND SINK (E-1, F-4) 028

SCALE: NONE REV: SI/12-24/Master

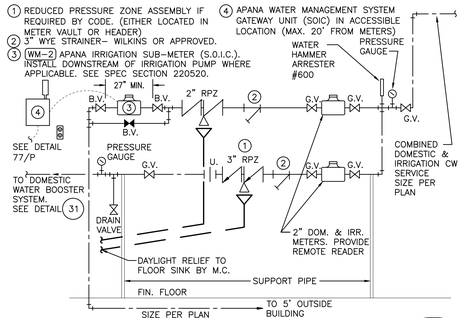
NOTE:
M.C. IS TO INSTALL HEAT TRACE WITH RAYCHEM XL TRACE. FREEZE PROTECTION CABLE. PROVIDE COMPLETE WITH FLUSH MOUNTED THERMOSTAT MODEL NO. EC-TS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR AND FINAL CONNECTION. APPLY THE HEATER LINEARLY ON THE PIPE AFTER PIPING TESTED PER MANUFACTURER'S RECOMMENDATION. DETAIL BELOW SHOWS GENERAL INSTALLATION METHOD.



HEAT TRACE DETAIL 029

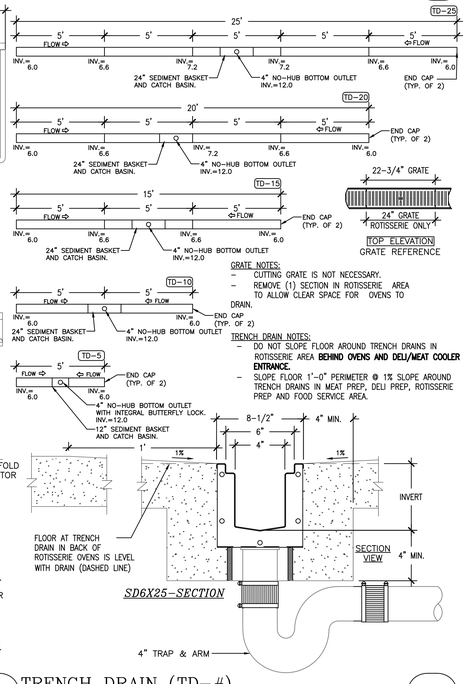
SCALE: NONE REV: SI/12-24/24-000

1. REDUCED PRESSURE ZONE ASSEMBLY IF REQUIRED BY CODE. (EITHER LOCATED IN METER VAULT OR HEADER)
2. 3" WYE STRAINER- WILKINS OR APPROVED.
3. MV-2 APANA INTEGRATION SUB-METER (S.O.I.C.). INSTALL DOWNSTREAM OF IRRIGATION PUMP WHERE APPLICABLE. SEE SPEC SECTION 220520.
4. APANA WATER MANAGEMENT SYSTEM GATEWAY UNIT (SOIC) IN ACCESSIBLE LOCATION (MAX. 20' FROM METERS)



COLD WATER HEADER DETAIL 030

SCALE: NONE REV: SI/12-24/Master



GRATE NOTES:
- CUTTING GRATE IS NOT NECESSARY.
- REMOVE (1) SECTION IN ROTISSERIE AREA TO ALLOW CLEAR SPACE FOR OVENS TO DRAIN.

TRENCH DRAIN NOTES:
- DO NOT SLOPE FLOOR AROUND TRENCH DRAINS IN ROTISSERIE AREA **BEHIND OVENS AND DELI/MEAT COOLER ENTRANCE.**
- SLOPE FLOOR 1'-0" PERIMETER @ 1% SLOPE AROUND TRENCH DRAINS IN MEAT PREP, DELI PREP, ROTISSERIE PREP AND FOOD SERVICE AREA.

FLOOR AT TRENCH DRAIN IN BACK OF ROTISSERIE OVENS IS LEVEL WITH DRAIN (DASHED LINE)

SD6X25-SECTION

1. GRUNDFOS BOOSTERPAQ BOOSTER PUMP PACKAGE- WITH CONTROL PANEL, CIRCUIT BREAKERS, MOUNTING ACCESSORIES, FUSED DISCONNECTS AND NO FLOW SHUT DOWN PROTECTION. PROVIDE SPARE PUMP AND MOTOR. SEE SCHEDULE FOR POWER REQUIREMENTS.
2. 3" CW FROM COLD WATER HEADER
3. 3" HARD CW TO WATER SOFTENER

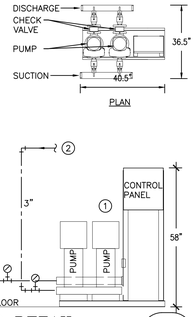
INLET PRESSURE SHUTDOWN:
SET INLET PUMP TO AUTOMATICALLY SHUT DOWN FOR INLET PRESSURE OF 10 PSI AND BELOW.

REQUIRED CLEARANCE:
48" CLEARANCE AT FRONT OF CONTROL PANEL (CLEAR TO GROUND) PER NEC.
24" SERVICE CLEARANCE AROUND SYSTEM.
12" ABOVE SYSTEM FOR MOTOR REMOVAL.

DIMENSIONS OF BOOSTER PACKAGE AS INSTALLED 40.5" X 36.5" X 58"

NO = NORMALLY OPEN
NC = NORMALLY CLOSED

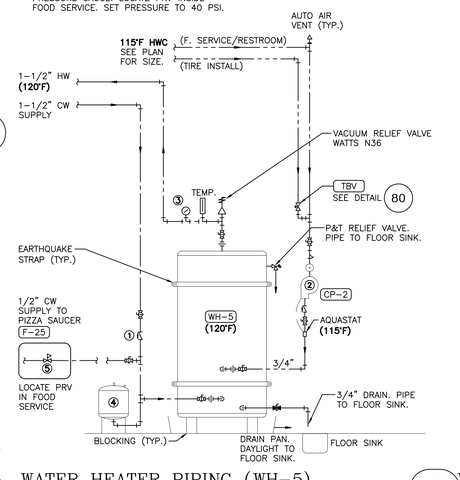
10.2 GAL. 125 PSI ASME CODE BLADDER TYPE HYDRO-PNEUMATIC TANK WITH ORIFICE, MOUNTED WITH SYSTEM.



DOMESTIC WATER BOOSTER DETAIL 031

SCALE: NONE REV: SI/12-24/24-000

NOTES
1. CHECK VALVE FOR CW SUPPLY.
2. PROVIDE GRUNDFOS UPS 26-99 BRONZE RECIRC PUMP. SET MOTOR TO LOW SPEED. MOUNT IN VERTICAL ORIENTATION ONLY.
3. PROVIDE PRESSURE GAUGE DWYER MODEL #SGB-C0521N (0-100PSI) IN VISIBLE LOCATION UPSTREAM OF FIRST HW SUPPLY BRANCH TEE.
4. THERMAL EXPANSION TANK AMTROL ST-12-C (ASME). INFLATE TANK TO WATER PRESSURE LISTED IN WATER CALCULATIONS.
5. PROVIDE PRV BLODGETT 51128 WITH PRESSURE GAUGE. LOCATE PRV INSIDE FOOD SERVICE. SET PRESSURE TO 40 PSI.

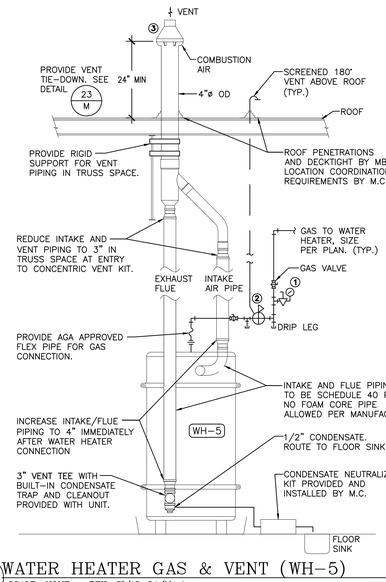


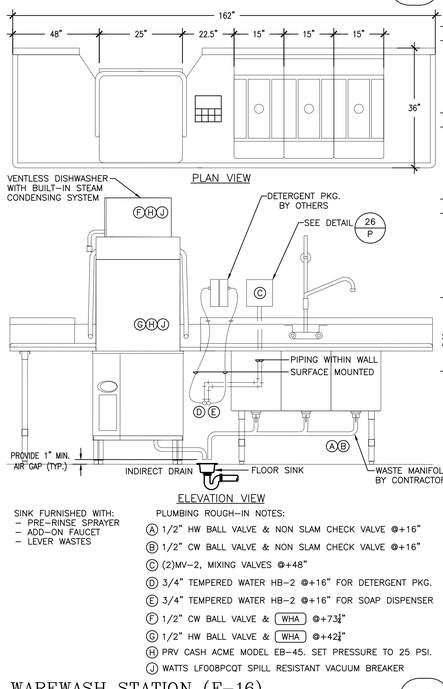
NOTES
ALL VALVES TO BE CONSIDERED 'NO' UNLESS OTHERWISE INDICATED.
NO = NORMALLY OPEN
NC = NORMALLY CLOSED

ALL WATER CONNECTIONS & DRAIN PANS BY M.C.

NO GALVANIZED FITTINGS ALLOWED.

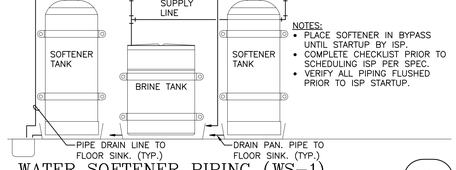
NOTES
PAINT **ALL** EXPOSED PIPING ABOVE ROOF PER SPECIFICATIONS.
1. PROVIDE PRESSURE GAUGE WITH SHUT-OFF VALVE FOR GAS LINE UPSTREAM OF PRV. MAX PRESSURE OF GAUGE TO BE NO LESS THAN 200% OF MAIN LINE PRESSURE.
2. PROVIDE PRV PER GAS TABLE. PROVIDE CAPPED TESTING TEE AT MINIMUM 10 PIPE DIAMETERS FROM PRV OUTLET.
3. INSTALL CONCENTRIC TERMINATION KIT PER MFR. INSTALLATION INSTRUCTIONS. RUN CONCENTRIC VENT 10' FROM PARAPET WALL BEFORE PENETRATING ROOF. LOCATE 10' AWAY FROM ALL OUTSIDE AIR INLETS OR REFR. CONDENSER. OUTLET TERMINATED @24" MIN. ABOVE ROOF DECK.





SINK FURNISHED WITH:
- PRE-RINSE SPRAYER
- ADD-ON FAUCET
- LEVER WASTES

PLUMBING ROUGH-IN NOTES:
- (A) 1/2" HW BALL VALVE & NON SLAM CHECK VALVE @+16"
- (B) 1/2" CW BALL VALVE & NON SLAM CHECK VALVE @+16"
- (C) (2)MV-2, MIXING VALVES @+48"
- (D) 3/4" TEMPERED WATER HB-2 @+16" FOR DETERGENT PKG.
- (E) 3/4" TEMPERED WATER HB-2 @+16" FOR SOAP DISPENSER
- (F) 1/2" CW BALL VALVE & WHA @+73"
- (G) 1/2" HW BALL VALVE & WHA @+42"
- (H) PRV CASH ACME MODEL EB-45. SET PRESSURE TO 25 PSI.
- (J) WATTS LF008PCQT SPILL RESISTANT VACUUM BREAKER

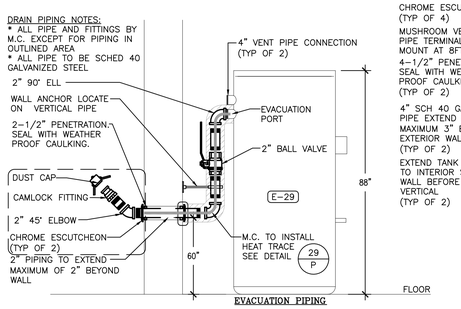


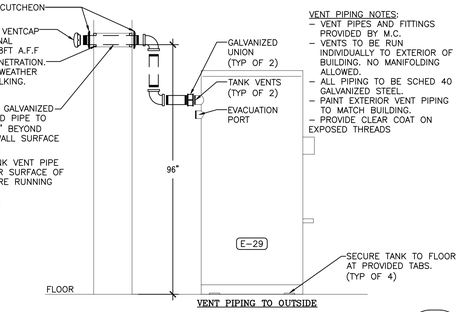
NOTES:
- PLACE SOFTENER IN BYPASS UNTIL STARTUP BY ISP.
- COMPLETE CHECKLIST PRIOR TO SCHEDULING ISP PER SPEC.
- VERIFY ALL PIPING FLUSHED PRIOR TO ISP STARTUP.

WATER SOFTENER PIPING (WS-1) 077

SCALE: NONE REV: SI/11-24/24-000

DRAIN PIPING NOTES:
* ALL PIPE AND FITTINGS BY M.C. EXCEPT FOR PIPING IN OUTLINED AREA
* ALL PIPE TO BE SCHED 40 GALVANIZED STEEL





VENT PIPING NOTES:
- VENT PIPES AND FITTINGS PROVIDED BY M.C.
- VENTS TO BE RUN INDIVIDUALLY TO EXTERIOR OF BUILDING. NO MANIFOLDING ALLOWED.
- ALL PIPING TO BE SCHED 40 GALVANIZED STEEL.
- PAINT EXTERIOR VENT PIPING TO MATCH BUILDING.
- PROVIDE CLEAR COAT ON EXPOSED THREADS

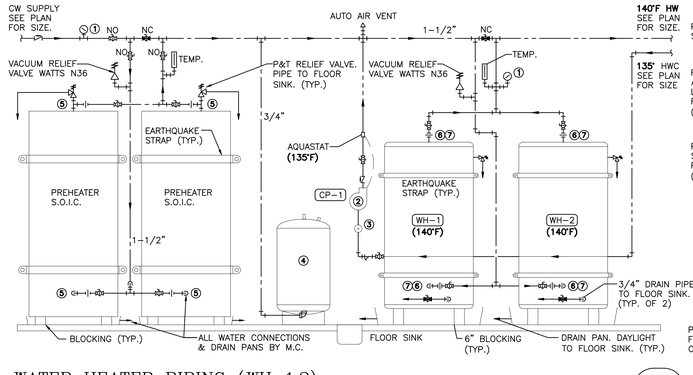
GREASE RECOVERY TANK (E-29) 038

SCALE: NONE REV: SI/12-24/Master

NOTES
1. PROVIDE PRESSURE GAUGE DWYER MODEL #SGB-C0521N (0-100PSI) IN VISIBLE LOCATION ON EQUIPMENT PLATFORM. COLD WATER-UPSTREAM OF FIRST CONNECTION HOT WATER-UPSTREAM OF FIRST HW SUPPLY BRANCH TEE.
2. MOUNT PUMP ON VERTICAL SECTION OF PIPE, NO HIGHER THAN 5' ABOVE FLOOR. SET MOTOR TO MIDDLE SPEED.
3. SIGHT FLOW INDICATOR. M/N: W.E. ANDERSON SFI-100MP
4. THERMAL EXPANSION TANK (ASME). AMTROL ST-42VC. INFLATE TANK TO WATER PRESSURE LISTED IN WATER CALCULATIONS.
5. TANK CONNECTION SEE DETAIL **64/P**.

NOTE:
NO GALVANIZED FITTINGS ALLOWED.

ALL VALVES TO BE CONSIDERED 'NO' UNLESS OTHERWISE INDICATED.
NO = NORMALLY OPEN
NC = NORMALLY CLOSED



WATER HEATER PIPING (WH-5) 032

SCALE: NONE REV: SA/04-25/25-000

WATER HEATER GAS & VENT (WH-5) 033

SCALE: NONE REV: SI/12-24/Master

WAREWASH STATION (F-16) 036

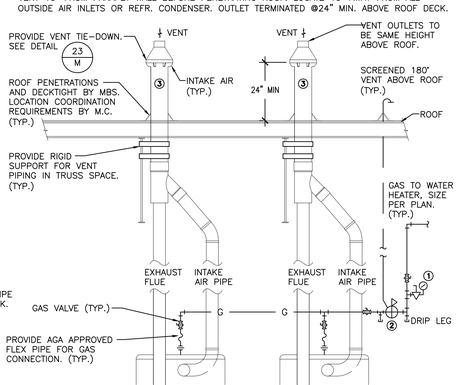
SCALE: NONE REV: SI/11-24/24-000

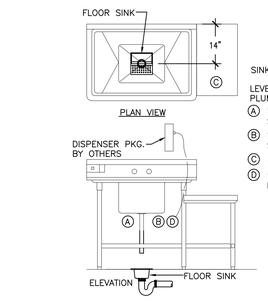
TRENCH DRAIN (TD-#) 037

SCALE: NONE REV: SI/11-24/24-000

NOTES
- PAINT **ALL** EXPOSED PIPING ABOVE ROOF PER SPECIFICATIONS.
- INTAKE AND VENT PIPING TO BE SCHEDULE 40 PVC. NO FOAM CORE PIPE ALLOWED PER MANUFACTURER.

1. PROVIDE PRESSURE GAUGE WITH SHUT-OF VALVE. MAX PRESSURE OF GAUGE TO BE NO LESS THAN 200% OF SUPPLIED PRESSURE.
2. PROVIDE PRV PER GAS TABLE. PROVIDE CAPPED TESTING TEE AT MINIMUM 10 PIPE DIAMETERS FROM PRV OUTLET.
3. INSTALL CONCENTRIC TERMINATION KIT PER MFR. INSTALLATION INSTRUCTIONS. RUN CONCENTRIC VENT 10' FROM PARAPET WALL BEFORE PENETRATING ROOF. LOCATE 10' AWAY FROM ALL OUTSIDE AIR INLETS OR REFR. CONDENSER. OUTLET TERMINATED @24" MIN. ABOVE ROOF DECK.





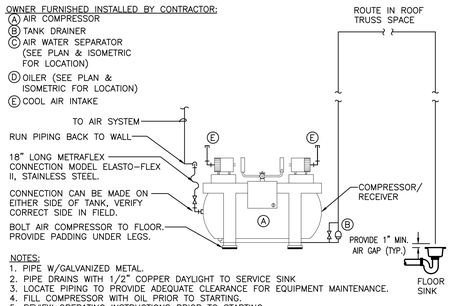
SINK FURNISHED WITH:
LEVER WASTES
PLUMBING ROUGH IN:
- (A) 1/2" HW BALL VALVE & NON SLAM CHECK VALVE @ +16"
- (B) 1/2" CW BALL VALVE & NON SLAM CHECK VALVE @ +16"
- (C) W/ OR W/O DRAIN BOARD(SEE PLAN)
- (D) 1/2" CW TO HB-2 @+16" FOR DISPENSER PKG.

M.C TO PROVIDE WARNING SIGN ABOVE SPLASHGUARD READING "CAUTION! 140°F HOT WATER"

CHICKEN PREP SINK (E-16) 043

SCALE: NONE REV: SI/11-24/24-000

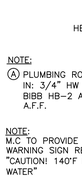
OWNER FURNISHED INSTALLED BY CONTRACTOR:
- (A) AIR COMPRESSOR
- (B) TANK DRAINER
- (C) AIR WATER SEPARATOR (SEE PLAN & ISOMETRIC FOR LOCATION)
- (D) OILER (SEE PLAN & ISOMETRIC FOR LOCATION)
- (E) COOL AIR INTAKE



NOTES:
1. PIPE W/GALVANIZED METAL.
2. PIPE DRAINS WITH 1/2" COPPER DAYLIGHT TO SERVICE SINK
3. LOCATE PIPING TO PROVIDE ADEQUATE CLEARANCE FOR EQUIPMENT MAINTENANCE.
4. FILL COMPRESSOR WITH OIL PRIOR TO STARTING.
5. REVIEW OPERATING INSTRUCTIONS PRIOR TO STARTING.

TIRE AIR COMPRESSOR 034

SCALE: NONE REV: SA/04-25/25-000



NOTE:
(A) PLUMBING ROUGH IN: 3/4" HW HOSE BIBB HB-2 AT +56" A.F.F.

NOTE:
M.C TO PROVIDE WARNING SIGN READING "CAUTION! 140°F HOT WATER"

HOSE REEL (E-10) 044

SCALE: NONE REV: SI/11-24/24-000

WATER HEATER PIPING (WH-1,2) 046

SCALE: NONE REV: SI/11-24/24-000

WATER HEATER GAS & VENT (WH-1,2,3) 047

SCALE: NONE REV: SI/11-24/24-000

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

ISSUED FOR PERMIT

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

B.T.E., INC.
630 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA
PHONE: 425-970-3763
FAX: 425-970-3764

© B.T.E. Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E. Inc.

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE
#1__

TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

PLUMBING DETAILS

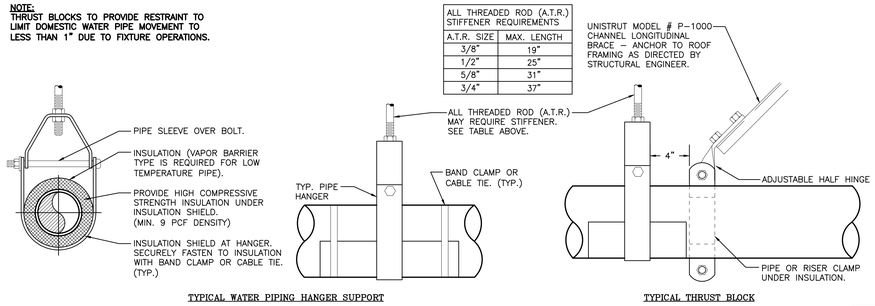
P-4.2

C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt
12/23/2025 11:53:18 AM
C:\2025\340-349\25-346 - Costco - Lee's Summit - MO - New_346P-4.2.dwg, 12/23/2025 12:01:59 PM, jseferian

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:56

NOTE:
THRUST BLOCKS TO PROVIDE RESTRAINT TO LIMIT DOMESTIC WATER PIPE MOVEMENT TO LESS THAN 1" DUE TO FIXTURE OPERATIONS.

ALL THREADED ROD (A.T.R.) STIFFENER REQUIREMENTS	
A.T.R. SIZE	MAX. LENGTH
3/8"	19"
1/2"	25"
5/8"	31"
3/4"	37"

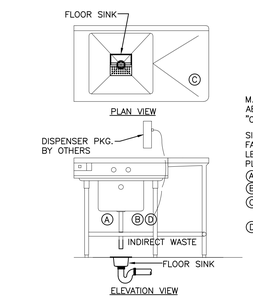


TYPICAL WATER PIPING HANGER SUPPORT

TYPICAL THRUST BLOCK

WATER PIPING HANGER / THRUST BLOCK DETAIL 010

SCALE: NONE REV: SI/10-24/24-000

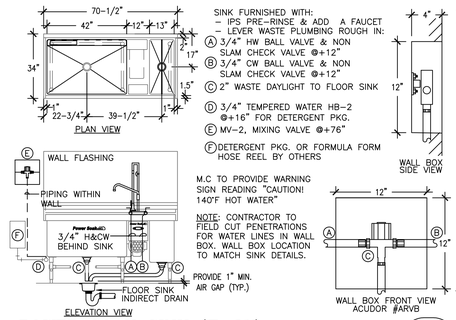


M.C TO PROVIDE WARNING SIGN ABOVE SPLASHGUARD READING "CAUTION! 140°F HOT WATER"

SINK FURNISHED WITH:
FAUCET
LEVER WASTES
PLUMBING ROUGH IN:
- (A) 1/2" HW WALL STOP @ +16"
- (B) 1/2" CW WALL STOP @ +16"
- (C) W/OR W/O DRAIN BOARD (SEE PLAN)
- (D) 1/2" CW TO HB-2 @+16" FOR DISPENSER PKG.

POWER SOAK SINK (E-27) 039

SCALE: NONE REV: SI/11-24/24-000



SINK FURNISHED WITH:
- FAUCETS
- LEVER WASTES

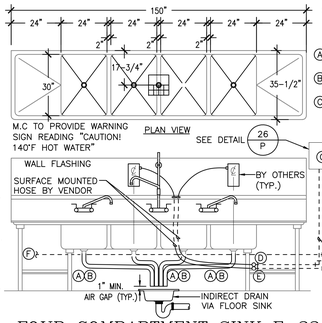
PLUMBING ROUGH IN:
- (A) 3/4" HW BALL VALVE & NON SLAM CHECK VALVE @+16" AND 3/4" CW BALL VALVE & NON SLAM CHECK VALVE @+16" WITH SPECIFIED TEMPERATURE LIMITING DEVICE.
- (B) 3/4" CW BALL VALVE & NON SLAM CHECK VALVE @+16"
- (C) 2" WASTE DAYLIGHT TO FLOOR SINK
- (D) 3/4" TEMPERED WATER HB-2 @+16" FOR DETERGENT PKG.
- (E) MV-2, MIXING VALVE @+76°
- (F) DETERGENT PKG. OR FORMULA FORM HOSE REEL BY OTHERS

M.C TO PROVIDE WARNING SIGN READING "CAUTION! 140°F HOT WATER"

NOTE: CONTRACTOR TO FIELD CUT PENETRATIONS FOR WATER LINES IN WALL BOX. WALL BOX LOCATION TO MATCH SINK DETAILS.

FOUR COMPARTMENT SINK E-22 040

SCALE: NONE REV: SI/11-25/Master



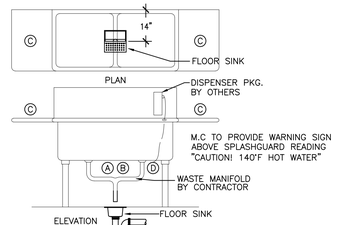
SINK FURNISHED WITH:
- FAUCETS
- LEVER WASTES

PLUMBING ROUGH IN:
- (A) 1/2"HW BALL VALVE & NON SLAM CHECK VALVE @+16"
- (B) 1/2"CW BALL VALVE & NON SLAM CHECK VALVE @+16"
- (C) (2)MV-2, MIXING VALVES @+48".
- (D) 3/4" TEMPERED WATER HB-2 @+16" FOR DETERGENT PACKAGE.
- (E) 3/4" TEMPERED WATER HB-2 @+16" FOR SOAP DISPENSER.
- (F) 1/2" TEMPERED WATER CONTINUE TO HB-2 NEAR PAN WASHER.

M.C TO PROVIDE WARNING SIGN READING "CAUTION! 140°F HOT WATER"

TWO COMP. SINK (E-12) 041

SCALE: NONE REV: SI/11-25/Master



SINK FURNISHED WITH: FAUCET & LEVER WASTES
PLUMBING ROUGH IN:
- (A) 3/4" HW BALL VALVE & NON SLAM CHECK VALVE @ +16"
- (B) 3/4" CW BALL VALVE & NON SLAM CHECK VALVE @ +16"
- (C) DRAIN BOARD (E-12 ONLY)
- (D) 1/2" CW TO HB-2 @+16" FOR DISPENSER PKG. (DELI ONLY)

ONE COMP. SINK (E-15) 042

SCALE: NONE REV: SI/11-25/Master

BAKERY AIR COMPRESSOR (E-3) 045

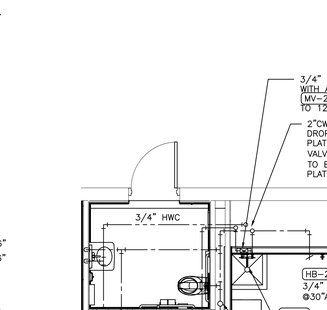
SCALE: NONE REV: SI/11-24/24-000

NOTE:
M.C. TO PROVIDE AND INSTALL ALL: FIXTURES, PIPE, FITTINGS AND VALVES UNLESS OTHERWISE NOTED.

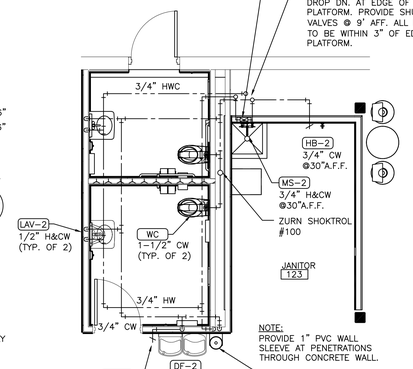
WATER METER E-5/ HAND SINK E-1 050

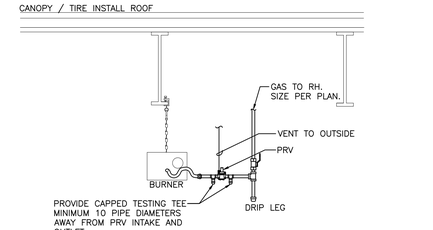
SCALE: NONE REV: SI/11-24/24-000

NOTE:
ALL RO PIPING TO BE STAINLESS STEEL OR NON-TRANSLUCENT PEX (WHITE OR BLUE).
ALL VALVES TO BE CONSIDERED 'NO' UNLESS OTHERWISE INDICATED.
NO = NORMALLY OPEN
NC = NORMALLY CLOSED



NOTE:
LOCATE COMPRESSOR SO FAN DOES NOT INTERFERE WITH SOUND CURTAIN.



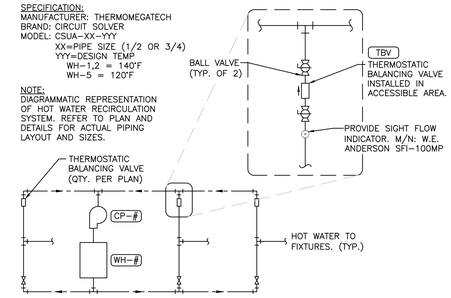


RADIANT HEATER GAS PIPING 062

SCALE: NONE REV: SI/11-24/24-000

SPECIFICATION:
MANUFACTURER: THERMOMEGATECH
BRAND: CIRCUIT SOLVER
MODEL: CSUA-XX-YYY
XX=PIPE SIZE (1/2 OR 3/4)
YYY=DESIGN TEMP
WH-1,2 = 140°F
WH-5 = 120°F

NOTE:
DIAGRAMMATIC REPRESENTATION OF HOT WATER RECIRCULATION SYSTEM. REFER TO PLAN AND DETAILS FOR ACTUAL PIPING LAYOUT AND SIZES.



RACK WASHER (E-6) 049

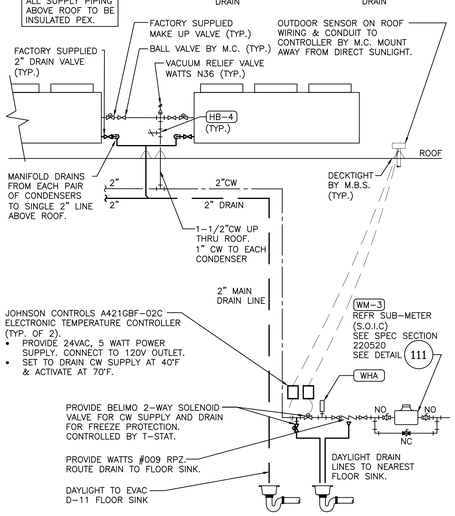
SCALE: NONE REV: SI/11-24/24-000

SEQUENCE OF OPERATION		
	CW IN	DRAIN
NO POWER	NC/FC	NO/FO
70°F & ABOVE	OPEN	CLOSED
41°F TO 70°F	CLOSED	CLOSED
40°F & BELOW	CLOSED	OPEN

NC – NORMALLY CLOSED FC – FAIL CLOSED
NO – NORMALLY OPEN FO – FAIL OPEN

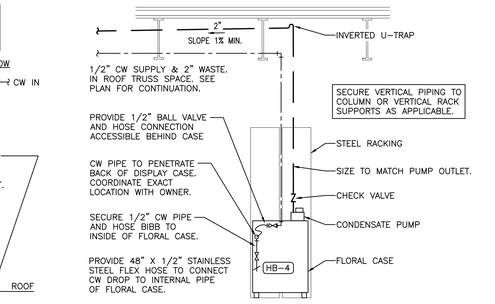
2-WAY VALVE W/ SPRING RETURN
MFR: BELIMO
MODEL: F650HD+AFBUP-X1 (CW IN)
B219VS+NFB24-X1 (DRAIN)

TEMP 70°F & ABOVE: CW TO EQUIP. — CW IN — DRAIN
TEMP 40°F & BELOW: CW TO EQUIP. — CW IN — DRAIN



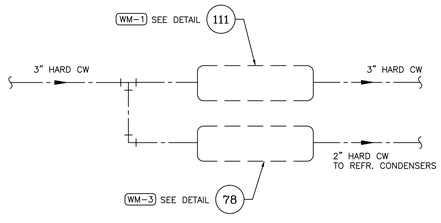
WATER COOLED CONDENSER PIPING 078

SCALE: NONE REV: JV/03-25/24-926



FLORAL WATER SUPPLY 082

SCALE: NONE REV: SI/11-24/24-000

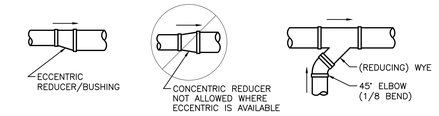


WATER FILTRATION DETAIL 075

SCALE: NONE REV: SI/11-24/24-000

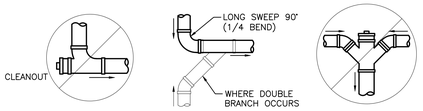
HORIZONTAL

NOTE: NO REDUCTION IN DIRECTION OF FLOW ALLOWED FOR HORIZONTAL PIPE. PIPE SIZE TRANSITIONS TO BE MADE WITH (1) SINGLE FITTING.



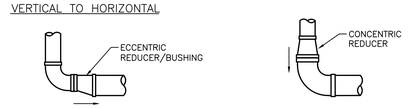
HORIZONTAL & VERTICAL

NOTE: NO CLEANOUTS REQUIRED UNLESS OTHERWISE SPECIFIED. NO DOUBLE BRANCH WYES ALLOWED.

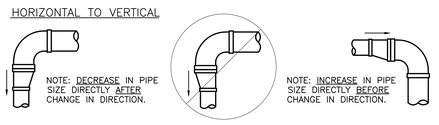


VERTICAL

VERTICAL TO HORIZONTAL



HORIZONTAL TO VERTICAL

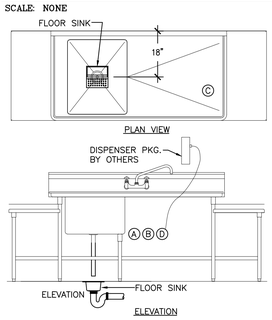


SIPHONIC ROOF DRAIN SYSTEM 085

SCALE: NONE REV: SI/11-24/24-000

RECEIVING RESTROOM PIPING DIAGRAM 60

SCALE: NONE

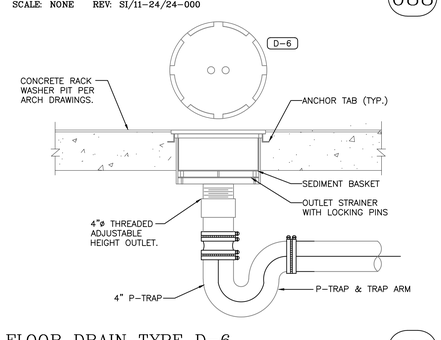


M.C TO PROVIDE WARNING SIGN ABOVE SPLASHGUARD READING "CAUTION! 140°F HOT WATER"

SINK FURNISHED WITH:
LEVER WASTES
PLUMBING ROUGH IN:
- (A) 1/2" HW BALL VALVE & NON SLAM CHECK VALVE @ +16"
- (B) 1/2" CW BALL VALVE & NON SLAM CHECK VALVE @ +16"
- (C) DRAIN BOARD(SEE PLAN)
- (D) 1/2" CW TO HB-2 @+16" FOR DISPENSER PKG.

SEAFOOD PREP SINK (E-19) 088

SCALE: NONE REV: SI/11-24/24-000



FLOOR DRAIN TYPE D-6 090

SCALE: NONE REV: SI/11-24/24-000

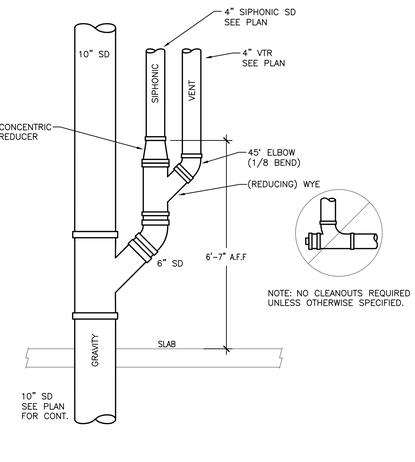
THERMOSTATIC BALANCING VALVE DETAIL 080

SCALE: NONE REV: SI/11-24/24-000

SIPHONIC ROOF DRAIN SYSTEM

THE FOLLOWING NOTES APPLY TO THE ENTIRE PLAN AS APPLICABLE.

1. THIS IS AN ENGINEERED RAINWATER DRAINAGE SYSTEM DESIGNED IN FULL COMPLIANCE WITH ASPE PLUMBING ENGINEERING DESIGN STANDARD 45.
3. MIFAB–HYDROMAX SIPHONIC ROOF DRAINS CERTIFIED TO ASME A112.6.9.
4. ALL CHANGES FROM PLAN (DIMENSIONS, FITTINGS, ETC.) OUTSIDE OF SPECIFIED TOLERANCES MUST BE REPORTED TO, REVIEWED AND APPROVED BY DESIGN ENGINEER.
5. ALL HORIZONTAL PIPING TO BE INSTALLED WITH NO SLOPE AND STRUCTURALLY SUPPORTED AS INDICATED.
6. TIGHT OR SHARP BENDS NOT ALLOWED. SEE PLAN AND SPECS FOR REQUIRED FITTINGS.
7. SEE SPECIFICATION SECTION 221416 FOR ADDITIONAL INSTALLATION, INSPECTION AND TESTING REQUIREMENTS.



SIPHONIC BREAK DETAIL 84

SCALE: NONE

ISSUED FOR PERMIT

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/23/25	ISSUED FOR PERMIT

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA 98057
PHONE: 425-970-3763
FAX: 425-970-3764

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without written permission in writing from T.E., Inc.

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE
#___

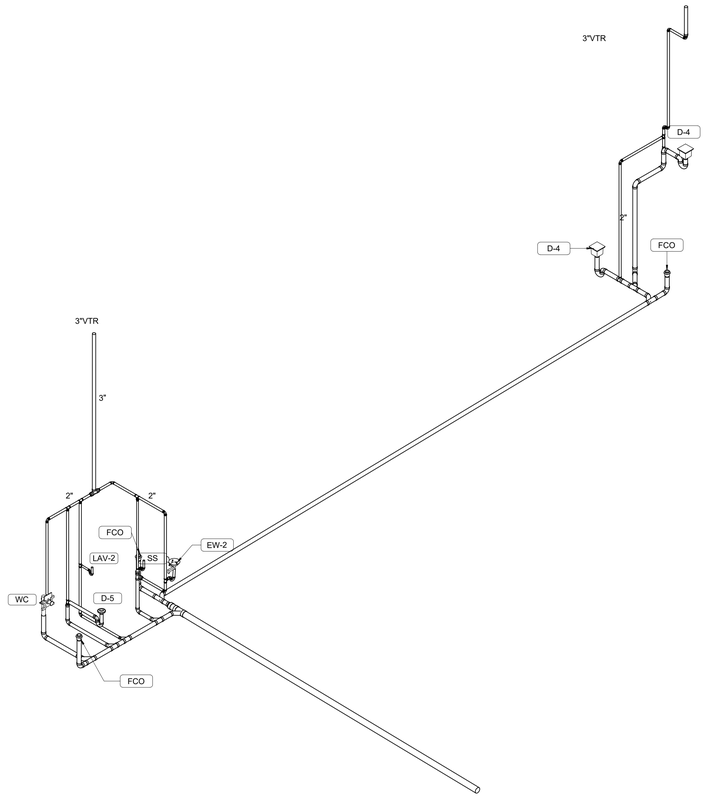
TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

PLUMBING DETAILS

P-4.3

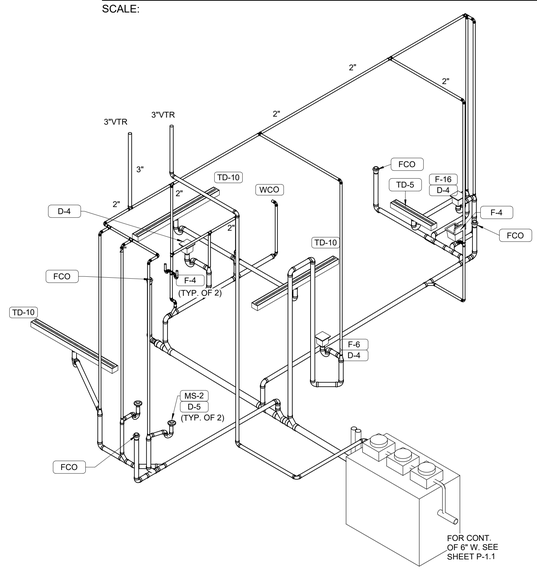
C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt
12/23/2025 11:53:18 AM
K:\2025\340-349\25-346 - Costco - Lee's Summit - MO - New_346P-4.3.dwg, 12/23/2025 12:01:59 PM, jseferian

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/26/2026 4:03:56



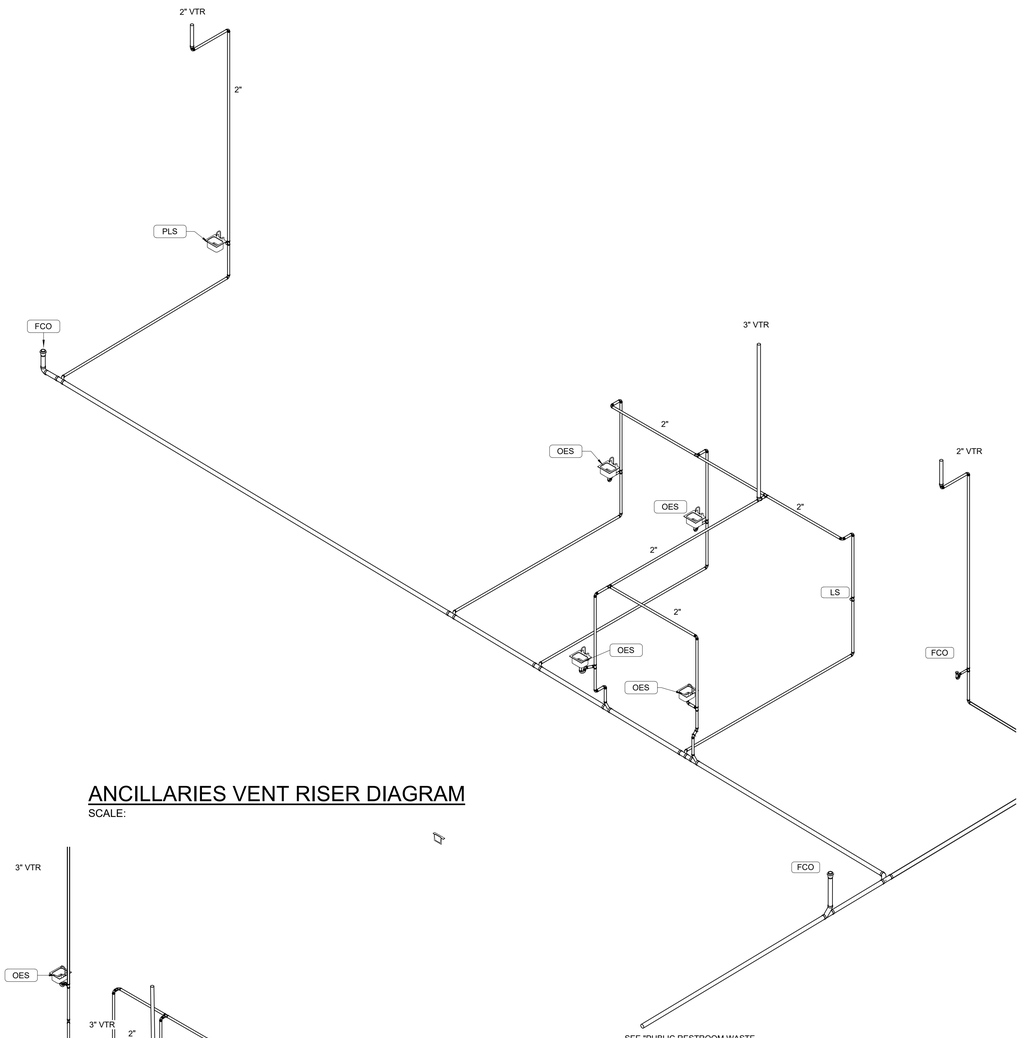
TIRE CENTER WASTE & VENT RISER DIAGRAM

SCALE:



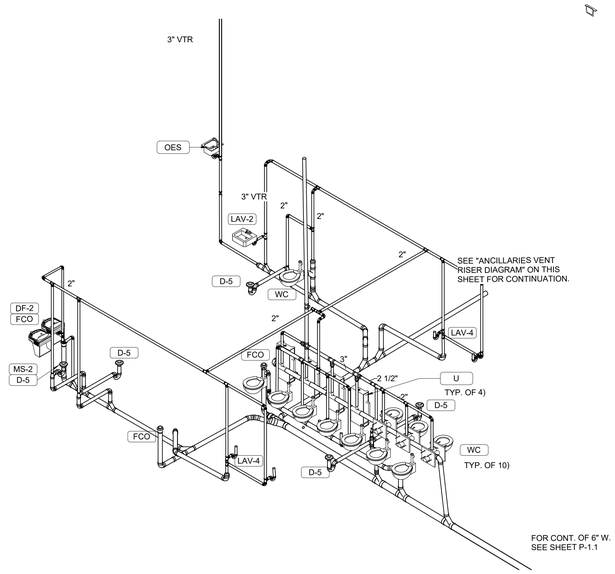
FOOD SERVICE WASTE & VENT RISER DIAGRAM

SCALE:



ANCILLARIES VENT RISER DIAGRAM

SCALE:



PUBLIC RESTROOM WASTE & VENT RISER

SCALE:

ISSUED FOR PERMIT

STATE OF MISSOURI
PAAL K. RYAN
NUMBER PE-2024036519
PROFESSIONAL ENGINEER
12/23/2025

	DATE	DESCRIPTION
	11/26/25	ISSUED FOR QA
	12/23/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without written permission of T.E., Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-7753
FAX: 425-970-3746

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#____

TEI #: 25-346
PM: JRS
CHECKED BY: PKR/ANT
ISSUED: 11/26/24

VENT RISER DIAGRAMS

P-5.1

12/23/2025 12:06:31 PM C:\Users\jseferian\Documents_346_MP_CENTRAL 2023_jseferian33SXA.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:56

PERMIT

ELECTRICAL LEGEND

- (#) LIGHT FIXTURE TYPE
- HIGHBAY LIGHT FIXTURE
- LOWBAY / CANOPY / SECURITY LIGHT FIXTURE
- DIRECTIONAL EXIT SIGN WITH BATTERY PACK
- COMBINATION EXIT/EGRESS FIXTURE WITH BATTERY PACK
- EGRESS/EMERGENCY FIXTURE W/ BATTERY PACK
- WALL MOUNTED FIXTURE
- TROFFER LIGHT FIXTURE (SUB-LETTER INDICATES CONTROLLING SWITCH)
- TROFFER LIGHT FIXTURE, ON EMERGENCY LIGHT CIRCUIT WITH BATTERY PACK
- SIGN LIGHTS
- 0-10V OCCUPANCY SENSOR & DIMMING SWITCH LUTRON MS-Z101-IV. NOTE: SET TO 30-MINUTES DELAY. PROVIDE LOW VOLTAGE WIRING TO EACH FIXTURE. MAKE ALL FINAL CONNECTIONS AS REQUIRED. FIELD VERIFY.
- DIMMER SWITCH, LEVITON IP710LFZ OR EQUAL
- OCCUPANCY SENSOR/SWITCH LEVITON ODS15-ID. NOTE: SET TO 20-MINUTES DELAY.
- SINGLE POLE SWITCH, +42"
- SUB-LETTER INDICATES FIXTURE CONTROLLED, +42"
- SINGLE POLE SWITCH WITH PILOT LIGHT, +42"
- SINGLE POLE SWITCH WITH KEY-LOCK, +42"
- THREE POLE SWITCH, +42" SWITCH PROVIDED BY M.C., INSTALLED BY E.C., +42"
- PUSH BUTTON, +42"
- PUSH BUTTON FOR SHUNT TRIP, +42"
- BUZZER WITH TRANSFORMER, +84" OR AS NOTED
- ISOLATED GROUND DUPLEX RECEPTACLE, +18" MIN. OR AS NOTED
- ISOLATED GROUND FOUR-FLEX RECEPTACLE, +18" MIN. OR AS NOTED
- SINGLE PLUG-IN RECEPTACLE, +18" MIN. OR AS NOTED
- DUPLEX RECEPTACLE, +18" MIN. OR AS NOTED
- FOUR-PLEX RECEPTACLE, +18" MIN. OR AS NOTED
- SPECIAL PURPOSE OUTLET, +18" MIN. OR AS NOTED
- PLUGMOLD WITH RECEPTACLES, SEE SPECS
- JUNCTION BOX, SIZE AND TYPE PER CODE
- GROUNDING PER CODE OR 3/4" DIAMETER 10' LONG STAINLESS STEEL GROUND ROD
- FUSED DISCONNECT, COORDINATE W/EQUIPMENT SUPPLIER
- NON-FUSED DISCONNECT, COORDINATE W/EQUIPMENT SUPPLIER
- COMBINATION STARTER/DISCONNECT SWITCH
- HACR BREAKER IN NEMA ENCLOSURE, COORDINATE W/EQUIPMENT SUPPLIER
- 2-COMPARTMENT POWER POLE, WIREMOLD 25DTP SERIES - WHITE COLOR
- MOTOR CONNECTION AS REQUIRED
- J-BOX AT 18" A.F.F. OR AS NOTED, FOR TELEPHONE / DATA OUTLET WITH 3/4" CONCEALED-IN-WALL CONDUIT UP TO CEILING SPACE OR AS SHOWN. DO NOT DAISY CHAIN.
- CONDUIT IN CEILING OR WALL, 1/2" MIN.
- HOME RUN TO PANEL WITH CIRCUIT NUMBER, SLASHES INDICATE NUMBER OF CONDUCTORS
- INDICATES WIRES AND CONDUIT OTHER THAN #12,1/2"C C - METALLIC CONDUIT, PVC - PLASTIC CONDUIT
- ISOLATED GROUND OR GROUND CONDUCTOR
- FLEXIBLE CONDUIT CONNECTION AS REQUIRED
- 277-120V SQ-D 9070 TF75D18 CONTROL TRANSFORMER W/ ENCLOSURE & PRIMARY & SECONDARY PROTECTION
- 3/4"x4'x8' PAINTED TELEPHONE BOARD
- MECHANICAL UNIT
- TRANSFORMER
- PANEL BOARD
- +48" INDICATES MOUNTING HEIGHT OF EQUIPMENT / OUTLET CENTER LINE ABOVE FINISH FLOOR

WP	WEATHER-PROOF
C.O.	CONDUIT ONLY WITH PULL WIRES
LRP	LIGHTING CONTROL CENTER
MSB	MAIN SWITCHBOARD
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
DC	DROP CORD
AFF	ABOVE FINISH FLOOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
XFMR	TRANSFORMER
RMC	RIGID METALLIC CONDUIT
TYP.	TYPICAL

CONSTRUCTION GENERAL NOTES:

A. DO NOT RUN UNDERGROUND CONDUITS UNDER FREEZERS IN SLAB. UNDERGROUND CONDUITS SHALL BE 24" BELOW SLAB.
B. MOUNT ALL OVERHEAD CONDUITS AT 25' MINIMUM IN MAIN BUILDING. CONDUITS SHALL BE GROUPED TOGETHER & NOT MORE THAN 2" WIDE. DO NOT BLOCK LIGHTING & SKYLIGHTS.
C. MINIMUM WIRE & CONDUIT SIZE ARE #12 CU & 1/2"C. TYP.
D. NO ALUMINUM WIRE ALLOWED.
E. ALL BREAKER AIC RATINGS TO MATCH PANEL AIC RATINGS.
F. ALL U.L. LISTED EQUIPMENT SHALL BE INSTALLED AS PER THEIR LISTING OR LABELING.
G. EXIT/EMERGENCY LIGHTING SHALL BE UNSWITCHED FOR EL LIGHT FIXTURES. SEE LIGHTING FIXTURE SCHEDULE.
H. ALL ELECTRICAL FEEDERS IN BUILDING (MAIN FEEDERS, BRANCH CIRCUIT FEEDERS, ETC.) SHALL BE OVERHEAD. NO UNDERGROUND FEEDERS ALLOWED UNLESS OTHERWISE NOTED.
I. ALL 20-AMP HOMERUNS TO HAVE MINIMUM #10 WIRES. IF MORE THAN 5 HOT WIRES, INCREASE WIRE SIZE TO COMPENSATE FOR DERATING FACTOR.
J. THE DEFAULT WIRE SIZE IS #12 THW CU. E.C. IS RESPONSIBLE TO PROVIDE HOT WIRE, NEUTRAL AND GROUNDING AS REQUIRED. THIS IS APPLICABLE FOR ALL 20-AMP CIRCUITS (PX/XX, HX/XX, CX/XX) WITH NO WIRE SPECIFICATION.
K. E.C. TO USE AND PROVIDE PVC IF APPROVED BY LOCAL JURISDICTION; OTHERWISE, WRAP CONDUITS WITH APPROVED MATERIALS FOR ALL UNDERGROUND CONDUITS DUE TO CORROSIVE SOIL CONDITIONS. PROVIDE GROUND WIRES & SIZED PER CODE OR AS NOTED.
L. APPLICABLE CODE: 2023 NEC

POWER DISTRIBUTION GENERAL NOTES:

E.C. IS TO VERIFY WITH THE UTILITY COMPANY THE SHORT CIRCUIT AVAILABLE. PROVIDE ELECTRICAL SWITCHBOARD WITH SUFFICIENT FAULT CURRENT PROTECTION SO THAT ALL ELECTRICAL EQUIPMENT DOWN STREAM WILL NOT EXCEED ITS FAULT CURRENT RATING. PANEL BOARDS TO BE UL TESTED, LISTED AND LABELED WITH SERIES CONNECTED RATINGS TO MEET OR EXCEED AVAILABLE FAULT CURRENT. PROVIDE FAULT CURRENT DEVICES FOR THE MAIN SWITCHBOARD AS REQUIRED BY STATE, LOCAL, AND THE NATIONAL ELECTRICAL CODES. PROVIDE BONDING BETWEEN SECTIONS FOR MULTI-SECTION SWITCHBOARDS AND PANEL BOARDS.

ELECTRICAL EQUIPMENT INCLUDING SWITCHBOARD, DISTRIBUTION BOARDS AND TRANSFORMERS SHALL BE EQUIPPED WITH NON-COMBUSTIBLE SPRINKLER HOOD OR SHIELD.

PROVIDE METAL SHEET PAN UNDER ALL FREE STANDING ELECTRICAL PANEL BOARDS ON COMBUSTIBLE FLOOR.

DRY TYPE TRANSFORMERS OVER 112.5KVA SHALL BE COMPLETELY ENCLOSED, EXCEPT FOR VENTILATION OPENINGS PER NEC 450-21 (b).

ONE LINE DIAGRAM NOTES - E1

(#)	
1	PANELS / SWITCHBOARD / TRANSFORMERS PROVIDED BY SQ-D/GRAYBAR.
2	PANELS / SWITCHBOARD / TRANSFORMERS PROVIDED BY SQ-D / GRAYBAR AND INSTALLED BY E.C.
3	FEEDER PROVIDED AND INSTALLED BY SQ-D/GRAYBAR.
4	FEEDER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5	GROUNDING PROVIDED AND INSTALLED BY E.C.
6	E.C. SHALL VERIFY WIRING IN INTEGRATED POWER CENTER (IPC1,2,3) COMPLIES WITH DRAWING AND SPECIFICATION.
7	E.C. TO INSTALL INTEGRATED POWER CENTER. PROVIDE MOUNTING ACCESSORIES AS REQUIRED. SEE SQ-D/GRAYBAR DRAWINGS. E.C. TO MAKE ALL FINAL CONNECTIONS.
8	PROVIDE 65K AIC SERIES RATING, WITH LABEL AT BREAKER IN MDP. E.C. TO PROVIDE LAMACOID LABEL "CAUTION! COMBINATION SERIES RATING OF 65K AIC WHEN PANEL SQ-D PANEL BREAKERS IS PROTECTED BY SQ-D DISTRIBUTION BREAKER. CONSULT W/ SQ-D PRIOR TO REPLACING".
9	MOUNT TRANSFORMER ABOVE PANEL/TRANSFORMER ON THE WALL. PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
10	E.C. TO MAKE ALL FINAL CONNECTIONS TO POWER SUPPLY GENERATOR UNITS. INCLUDING BATTERY CHARGING, ANNUNCIATOR CONNECTIONS AND ALL OTHER CONNECTIONS, INCLUDING LOW VOLTAGE. PROVIDE LUGS, TRANSITION BOXES, J-BOXES, FLEXIBLE CONDUIT, ETC. AS REQUIRED.
11	E.C. TO PROVIDE LAMACOID LABEL 'SHUNT-TRIP BREAKER. PROGRAMMED TO BE OFF WHEN GENERATOR IN USE." E.C. TO MAKE SURE IT IS FUNCTIONAL DURING GENERATOR TEST AS DESCRIBED IN NOTE #17. E.C. TO INSTALL CONTROL WIRING FROM GENERATOR BREAKER AUX TO CONTROL THE H4 & H6 BREAKERS VIA MANUAL/AUTO SWITCH. PANELS H4 & H6 BREAKERS SHALL BE OPENED WHEN GENERATOR BREAKER IS CLOSED. SQ-D TO PROVIDE MANUAL/AUTO SWITCH WITH COVER AT H4 AND H6 TO ALLOW OVERRIDE WITH APPROPRIATE ENGINEERING SUPERVISION.
12	E.C. TO PROVIDE POWER FOR GENERATOR LOAD CENTER. PROVIDE LAMACOID LABEL FOR PANEL "GENERATOR LOAD CENTER. RATED AT 60A".
13	1" CONDUIT TO GENERATOR ANNUNCIATOR'S DATA AND CONTROL WIRING. COORDINATE W/ GENERATOR VENDOR.
14	GENERATORS SHALL BE COORDINATED. TYPE 2 SYSTEM (STANDBY, NOT EMERGENCY).
15	E.C. TO SET ALL SETTING OF MAIN, GENERATOR AND ALL ADJUSTABLE BREAKERS PER SQ-D COORDINATION STUDY PRIOR TO DAY 90. PROVIDE REPORT TO GC AND ENG. SEE SPECIFICATION SEE SPECIFICATION 26 0500.
16	E.C. TO COORDINATE WITH POWER CO AND PROVIDE AVAILABLE FAULT CURRENT LABEL AT MSB AND APPLICABLE PANELS PER NEC 110.24. "MAXIMUM AVAILABLE FAULT CURRENT IS _____ CALCULATED DATE ____".
17	E.C. TO PERFORM GENERATOR TEST, PERFORM POWER TRANSFER. LET BUILDING RUN ON GENERATOR POWER FOR A MINIMUM OF 30 MINUTES BEFORE SWITCHBACK TO UTILITY POWER. MAKE SURE ALL SYSTEMS ARE RUNNING PROPERLY AFTER EACH TRANSFER.
18	NOT USED.
19	E.C. TO ADJUST TAPS OF TRANSFORMER T6 FOR 125V AT LOAD (POS FREEZERS/COOLER DOOR HEATHERS). PROVIDE LAMACOID LABEL ON PANEL "POS DOOR HEATERS LOAD ONLY".
20	PROVIDE LOCKABLE DEVICE IN ACCORDANCE TO NEC 450-14 & NEC 110-25.
21	PROVIDE LAMACOID LABEL SHOWING THE LOCATION OF MDP ON A FLOOR PLAN WITH LABEL "THE DISCONNECTING MEANS FOR THIS TRANSFORMER IS LOCATED AT MDP" IN ACCORDANCE TO NEC 450-14.
22	POST ARC-FLASH HAZARD WARNINGS, PER NEC 110.16 FOR ALL ELECTRICAL DEVICES IN THE BUILDING.
23	PROVIDE 22K AIC SERIES RATING, WITH LABEL AT BREAKER IN SD PANEL. E.C. TO PROVIDE LAMACOID LABEL "CAUTION! COMBINATION SERIES RATING OF 22K AIC WHEN PANEL SQ-D PANEL BREAKERS IS PROTECTED BY SQ-D DISTRIBUTION BREAKER. CONSULT W/ SQ-D PRIOR TO REPLACING".

ELECTRICAL SHEET LIST

SHEET	DESCRIPTION
E-1	ONE LINE DIAGRAM, LEGEND, LIGHTING FIXTURE SCHEDULE, SHEET LIST AND NOTES
E-2	POWER PLAN
E-3	LIGHTING PLAN
E-4	OFFICE, PHARMACY, HEARING, OPTICAL, PUBLIC RESTROOM - POWER AND LIGHTING PLANS, DETAIL & NOTES
E-5	FRESHLINE POWER & DEMO ROOM LIGHTING PLAN, EQUIPMENT LIST, DETAILS, AND NOTES
E-6	FOOD SERVICE - POWER PLAN, EQUIPMENT LIST, DETAIL AND NOTES
E-7	TIRE CENTER, MECHANICAL ROOM POWER & LIGHTING PLANS, DETAILS AND NOTES
E-8	ELECTRICAL DETAILS
E-9	PANEL SCHEDULES
E-10	PANEL SCHEDULES
E-11	PANEL SCHEDULES, CONTROL SCHEDULE
E-12	CANOPY HEAT TAPE POWER PLAN
SE-1	SITE LIGHTING PLAN

LOAD CALCULATION	208/120V (KVA)	480/277V (KVA)
LIGHTING	5.66	126.16
RECEPTACLES	178.85	
FREEZER/COOLER	204.12	782.64
UNIT HEATERS/BASEBOARD	17.68	82.23
BATTERY CHARGERS		96.72
AIR CONDITIONING	27.20	559.22
WATER HEATERS	2.70	
EXHAUST FANS	37.18	
MOTORS	115.94	129.35
KITCHEN (65% DEMAND FACTOR)	109.69	31.75
HEAT CABLE	1.0	6
	700.02	1814.07

TOTAL CONNECTED LOAD=2514.09 KVA (3024.45 AMPERES)
MAIN SERVICE SIZE = 3000 AMPERES AT 480 VOLTS 3 PHASE 4 WIRE

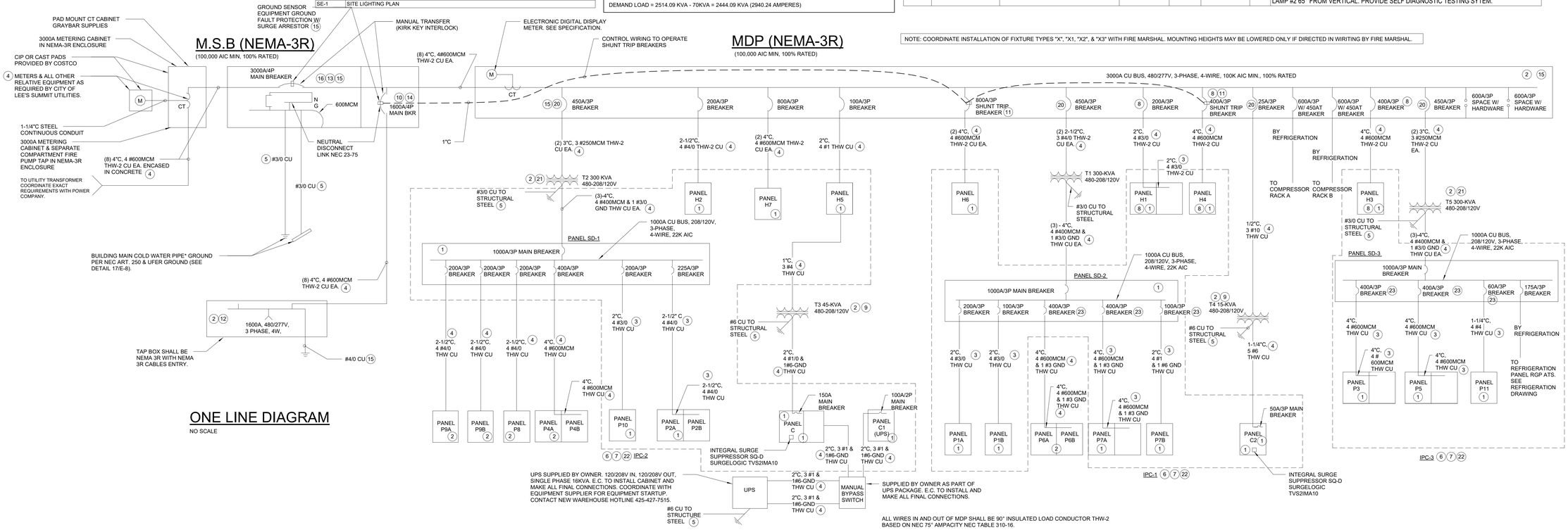
DEMAND LOAD = 2514.09 KVA - 70%KVA = 2444.09 KVA (2940.24 AMPERES)

LIGHTING FIXTURE SCHEDULE

ALL LIGHT FIXTURES SHALL HAVE FACTORY INSTALLED DISCONNECTED MEANS PER LATEST NEC CODE

TYPE	MANUFACTURER	NUMBER	DESCRIPTION	LAMP	MOUNT	WATT	COMMENTS
A	ILLUMADYNE	IG2-130-UNV-S16-MG-80-4000-SYN-FLEX-WP-RING-6' WHIP	HIGHBAY LIGHT	LED	CHAIN	130	MOUNTING HEIGHTS REFER TO ARCH. PLAN"WAREHOUSE CLEARANCE HEIGHTS, SECTIONS AND DETAILS". TYPICALLY SHEET G301. SEE DETAIL 4/E-8.
B	LITHONIA	DSXW2 LED P5 40K 70CRI T2M MVOLT SRM DDBXD	WALLPACK	LED	WALL	57	PROVIDE 2 VERTICAL WHITE UNISTRUT VERTICAL BETWEEN MBS GIRTS ON INSIDE OF BUILDING TO SUPPORT FIXTURE. E.C. TO COORDINATE # OF BACKBOXES NEEDED WITH SUPPLIER.
B1	LITHONIA	DSXW2 LED P5 40K 70CRI T4M MVOLT SRM DDBXD	WALLPACK	LED	WALL	57	PROVIDE 2 VERTICAL WHITE UNISTRUT VERTICAL BETWEEN MBS GIRTS ON INSIDE OF BUILDING TO SUPPORT FIXTURE. E.C. TO COORDINATE # OF BACKBOXES NEEDED WITH SUPPLIER.
B2	LITHONIA	DSXW1 LED P3 40K T2M MVOLT SRM DDBXD	WALLPACK	LED	WALL	20	PROVIDE 2 VERTICAL WHITE UNISTRUT VERTICAL BETWEEN MBS GIRTS ON INSIDE OF BUILDING TO SUPPORT FIXTURE. E.C. TO COORDINATE # OF BACKBOXES NEEDED WITH SUPPLIER.
C	LITHONIA	FMVCSLS-48IN-MVOLT-30K35K40K(40K)-90CRI-BN	BATHROOM MIRROR LIGHT	LED	WALL	35	PROVIDE EARTHQUAKE CLIPS. CENTER ABOVE MIRROR. SELECT 40K AT TIME OF INSTALL.
D	LITHONIA	2GTL 4 G 72L LP840 EZ1 LATC	2X4 TROFFER	LED	RECESS	54	0-10V DIMMING (1%) DRIVER & EARTHQUAKE CLIPS.
DEL	LITHONIA	2GTL 4 G 72L BLD LP840 EZ1 EL14W	2X4 TROFFER	LED	RECESS	54	0-10V DIMMING (1%) DRIVER & EARTHQUAKE CLIPS. PROVIDE EMERGENCY BATTERY PACKOPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90 MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
F	TECHLIGHT	LB-X-N-XX-S-1-D-BZ	SIGNAGE LIGHTING FIXTURE	LED	ARM	58	MAST ARM AND MOUNTING ACCESSORIES AS REQUIRED. SEE ARCHITECTURAL DETAIL. PROVIDE NEMA-3R ENCLOSURE FOR DRIVER.
F1	TECHLIGHT	LB-X-N-XX-O-1-D-BZ	SIGNAGE LIGHTING FIXTURE	LED	ARM	58	MAST ARM AND MOUNTING ACCESSORIES AS REQUIRED. SEE ARCHITECTURAL DETAIL. PROVIDE NEMA-3R ENCLOSURE FOR DRIVER.
F2	TECHLIGHT	LB-X-N-XX-S-1-D-BZ (LONG ARM) W/STRAIGHT ARM BRACKET	SIGNAGE LIGHTING FIXTURE	LED	ARM	58	MAST ARM AND MOUNTING ACCESSORIES AS REQUIRED. SEE ARCHITECTURAL DETAIL. PROVIDE NEMA-3R ENCLOSURE FOR DRIVER.
J	COOPER	4WSN_LED-LD4-52HL-A-UNV-L840-CD1-U	CEILING LIGHT	LED	SURFACE/ CHAIN	53	MOUNT @ 10'-0" A.F.F. W/ AIRCRAFT CABLES. CHAIN MOUNT BELOW PIPING AS NEEDED. E.C. TO PROVIDE ALL MOUNTING ACCESSORIES. NO SUBSTITUTIONS ALLOWED.
J1	COOPER	4SWLED-LW-LD4-LD840-52HL-UNV-CD1-SV-PD1	CEILING LIGHT	LED	SURFACE/ CHAIN	53	PROVIDE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
J1EL	COOPER	4SWLED-LW-LD4-L840-52HL-UNV-CD1-SVPD1	CEILING LIGHT	LED	SURFACE/ CHAIN	47	PROVIDE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
JEL	COOPER	4WSN_LED-LD4-52HL-A-UNV-L840-CD1-U-EL14	CEILING LIGHT	LED	SURFACE/ CHAIN	53	PROVIDE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
L	ILLUMADYNE	CC-125-UNV-DA-80-4000K	CANOPY LIGHTS	LED	CHAIN	125	PAINT CONDUIT & J-BOX WHITE, BOTTOM OF FIXTURES AT +15' A.F.F. PROVIDE MOUNTING ACCESSORIES (SWIVEL). PROVIDE SAFETY CHAIN TO BUILDING STRUCTURE. MOUNT ON (2) UNISTRUT SUPPORTED BETWEEN STRUCTURE. PAINT COUNDUIT, SUPPORT & J-BOX WHITE PROVIDE SHIMS TO MOUNT LEVEL.
Q	TECHLIGHT	CSL-S-N90-DL-82-1-WH WOCT	LOWBAY LIGHTS	LED	SURFACE	82	SUPPORT FROM UNISTRUT ABOVE CHAIN LINK FENCE CEILING, MOUNT FIXTURE BELOW CHAIN LINK FENCE CEILING.
T	LITHONIA	CLX L96 10000LM HEF RDL MVOLT GZ10 40K	INDOOR LIGHTING	LED	PENDANT/ SURFACE	90	MOUNT @ 10'-0" A.F.F. W/ AIRCRAFT CABLES. CHAIN MOUNT BELOW PIPING AS NEEDED. E.C. TO PROVIDE ALL MOUNTING ACCESSORIES. NO SUBSTITUTIONS ALLOWED.
T1	LITHONIA	CLX L48 5000LM HEF RDL MVOLT GZ10 40K	INDOOR LIGHTING	LED	PENDANT/ SURFACE	40	SAME AS TYPE T. NO SUBSTITUTIONS ALLOWED.
T1EL	LITHONIA	CLX L48 5000LM HEF RDL MVOLT GZ10 40K 90CRI WH E10W	INDOOR LIGHTING	LED	PENDANT/ SURFACE	40	SAME AS TYPE T. NO SUBSTITUTIONS ALLOWED. PROVIDE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNO
TEL	LITHONIA	CLX L96 10000LM HEF RDL MVOLT GZ10 40K 90CRI WH E10W	INDOOR LIGHTING	LED	PENDANT/ SURFACE	90	SAME AS TYPE T. NO SUBSTITUTIONS ALLOWED. PROVIDE EMERGENCY BATTERY PACK OPTION WHERE INDICATED ON PLANS. INCLUDE ALL RELAY, TEST SWITCH, RED INDICATOR LIGHT, AND CAPACITY OF (1400 LUMEN) LIGHT OUTPUT FOR 90-MINUTES. NOT A NIGHT LIGHT. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
X	LIGHTALARMS	3MC12G1/LD10M-DSC-CBKT-ID-T3 W/SELF POWERED BATTERY PACK	EMERGENCY LIGHTING	3-6W LED	UNIVERSAL	18	+25' AFF ON TRUS (SEE DETAIL) IN EMERGENCY CORRIDOR. PROVIDE MOUNTING ACCESSORIES AS REQUIRED. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
X1	LIGHTALARMS	GR1224M-R-1N-W-2/LD9-INDA-T3 (BATTERY RATING 24-WATT FOR 90 MINUTES)	EXIT SIGN WITH LIGHT	LED EXIT 2-5W LED	UNIVERSAL	26	EXIT SHALL BE WHITE WITH RED LETTERS AND TWO LED HEADS. MOUNT ABOVE DOOR. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
X2	LIGHTALARMS	GRAN-ND-R-W W/ SELF POWERED BATTERY PACK	EXIT SIGN WITH LIGHT	LED	CHAIN(2)	3	DOUBLE FACE EXIT. (+23' SEE NOTE) ARROW AS INDICATE WITH RED LETTER ON WHITE. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.
X3	LIGHTALARMS	SAF-2/LD/9-DB-DSC-12V-CL	REMOTE HEAD	2-5W LED	WALL	10	CONNECT POWER TO X1'S BATTERY UNIT. LAMP AIMING: LAMP #1 50° FROM VERTICAL. LAMP #2 65° FROM VERTICAL. PROVIDE SELF DIAGNOSTIC TESTING SYSTEM.

NOTE: COORDINATE INSTALLATION OF FIXTURE TYPES "X", "X1, "X2", & "X3" WITH FIRE MARSHAL. MOUNTING HEIGHTS MAY BE LOWERED ONLY IF DIRECTED IN WIRITING BY FIRE MARSHAL.



ONE LINE DIAGRAM

NO SCALE

JOEL G. MORTENSON NUMBER PE-2024000146
PROFESSIONAL ENGINEER
STATE OF MISSOURI
12/22/2025
IDFPR # 184005536
EXP: 04/30/2027

PROJECT STATUS ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/17/25	ISSUED FOR PERMIT

T.E., INC.
8120 N. UNIVERSITY DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without prior written permission or writing from T.E., Inc.

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#_____

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

ONE LINE DIAGRAM, LEGEND, LIGHTING FIXTURE SCHEDULE, SHEET LIST AND NOTES

E-1

12/22/2025 5:56:00 PM C:\Users\mwdjajaIDocuments_346_E_CENTRAL 2023_mwdjaja5H9M6.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:56

PERMIT

SEE SHT E-7 FOR ENLARGED SCALE OF THIS AREA

SEE SHEET E-4 FOR ENLARGED SCALE OF THIS AREA

SEE SHEET E-4 FOR ENLARGED SCALE OF THIS AREA

3/4" CONDUIT ONLY WITH PULL WIRES, FROM FIRE PUMP ROOM TO INSIDE OF WAREHOUSE UP TO 25' / CEILING SPACE. COORDINATE W/ ARCH.

PEAR FAN RECEPTACLE. MOUNT ON BOTTOM OF TRUSS TYPICAL OF 9. VERIFY LOCATION WITH M.C.

EQUIPMENT RECEPTACLE

WALKER J-BOX FOR TWO # 4 AND ONE #2 FLOORDUCT WITH 7-1/2"C INSERT RING. SEE DETAIL (THIS SHEET)

ROUTE POWER (ARMOR CABLE) IN FENCE

ROOF RECEPTACLE FOR EF-1

MAIN TELEPHONE BOARD

PANEL C1

8"X8"X6" PULL BOX (HOFFMAN A-S(X)) 6" ABOVE FLOOR W/ 4" X 4" X 10' WIREWAY UP WALL (SO-D LDB410) FROM PULL BOX. PROVIDE PANEL ADAPTER T PULL BOX END OF WIREWAY AND FLOOR DUCT. RECESS WIREWAY IN WALL. RUN WIREWAY 2" ABOVE TOP OF WALL. ADJUST HEIGHT OF PULL BOX AS REQUIRED.

1 #4 WALKER FLOORDUCT.

ONE #4 WALKER FLOORDUCT WITH 90° UP TO PANEL C1. PROVIDE 3#10 THW CU FOR EACH CIRCUIT. SEE PANEL SCHEDULE. PROVIDE DUCT ACCESORIES

PANEL P2

8 #10 IN 2"C

WALKER J-BOX FOR TWO #4 AND ONE #2 FLOORDUCT WITH 7-1/2"C INSERT RING. SEE DETAIL (THIS SHEET)

1" CONDUIT ONLY WITH PULL WIRES. 25' UP TO RECEIVING WALL FOR ELECTRIC METER TELEPHONE FIELD VERIFY EXACT LOCATION.

30A, 120/208V, 1Ø, RECEPTACLES FOR CHEESE CASE POWER. E.C. TO COORDINATE WITH OWNER BEFORE ROUGH-IN & INSTALL.

IDF POWER. MOUNT ON COLUMN 2" BELOW TRUSS. COORDINATE WITH COSTCO I.S. DEPARTMENT.

30A, 208V, 1Ø, 4 WIRE FUSED DISC FOR FLOWER CASE POWER. VERIFY EXACT LOCATION. E.C. MAKE FINAL CONNECTIONS.

BOINGO CELL PHONE REPEATER MOUNT OUTLET IN TRUSS SPACE. VERIFY EXACT LOCATION W/ IMAC AFTER SURVEY HAS BEEN COMPLETED.

SEE DETAIL 7/E-8 TYP

MIMO MACHINE. VERIFY EXACT LOCATION W/ ARCH.

WALKER J-BOX FOR TWO # 4 AND ONE #2 FLOORDUCT WITH 7-1/2"C INSERT RING. SEE DETAIL (THIS SHEET)

COFFEE GRINDER TYP. 2. FIELD VERIFY EXACT LOCATION.

2 #4 & 1 #2 WALKER FLOORDUCTS

MOUNT RECEPTACLES UNDER COUNTER. FIELD VERIFY EXACT LOCATION.

2-COMPARTMENT POWER POLE PROVIDE MOUNTING ACCESSORIES AS REQUIRED. AMP0016 CUSTOM POWER POLE.

SEE SHEET E-6 FOR ENLARGED SCALE OF THIS AREA

SEE SHEET E-7 FOR ENLARGED SCALE OF THIS AREA

UTILITY TRANSFORMER

30A, 3Ø, 480V DISCONNECT SWITCH FOR COMPACTOR & CONTROL POWER

PROVIDE LABEL 'COMPACTOR TRASH CHUTE FAN'

60A, 3Ø, 480V DISCONNECT SWITCH FOR BALER AND CONTROL POWER.

WATER SOFTENER POWER

FLOOR SCRUBBER RECEPT. VERIFY EXACT LOCATION W/ ARCH.

SEE SHEET. E-4 FOR ENLARGED SCALE OF THIS AREA

SECURITY CAMERA OUTLET ROUGH IN & LABEL BY DAY 60 POWER BY DAY 77.

SWITCH FOR PLUMBING HEAT TAPE, SEE PLUMBINS DRAWING.

TO HEAT TAPE

CLEANSTAR TANK. VERIFY EXACT LOCATION W/MECHANICAL. +60" AFF.

SEE BATTERY CHARGER PLAN ON THIS SHEET.

1" CO W/ PULL WIRE TO CEILING. +20' A.F.F.

TO HCC IN ROTISSERIE

(1) 1/2"C, 2#12 (120V CONTROL) (1) 1"C, (LV CONTROL, CAT5, TWISTED PAIR)

R.T.V RECEPT. VERIFY LOCATION W/COSTCO CONSTRUCTION PM BEFORE ROUGH INSTALLATION

RIDE-ON SCUBBER CHARGER. PROVIDE (1) 15A, 3Ø, 480V TWISTLOCK RECEPTACLES, PLUGS, AND CORDS. MOUNT RECEPTACLE ON SIDE OF STRUCTURAL BEAM BELOW PLATFORM DECK. VERIFY EXACT LOCATION W/ ARCH.

LOW PROFILE JUNCTION BOX. MAXIMUM 2" DEEP. TYPICAL OF 4. (13)

3/4" C THROUGH WALL TO INDICATOR LIGHT TYPICAL OF 4. LIGHT IS BY OTHER. (13)

DOCK LOCK-IN DEVICE BY OTHER. TYPICAL OF 4. SEE DETAIL 2/E-8. (13)

1" CONDUIT ONLY WITH PULL WIRES. 25' UP TO RECEIVING CEILING SPACE (RUN IN WALL UNITL ABOVE BAKERY) FOR GAS METER TELEPHONE. FIELD VERIFY EXACT LOCATION.

SEE SHT. E-5 FOR ENLARGED SCALE OF THIS AREA

BATTERY CHARGER POWER. PROVIDE (7) 30A, 3 Ø, 480V TWISTLOCK RECEPTACLES, PLUGS, AND CORDS FOR FORKLIFTS AND (1) 15A, 3 Ø, 480V TWISTLOCK RECEPTACLES, PLUGS, AND CORDS FOR EPJ WITH 3/4"C, 3 #10 THW CU TYPICAL OF 8 TO PANEL H1 & H4. MOUNT RECEPTACLES +14' AFF BESIDE CHARGER, ABOVE DOCK. COORDINATE WITH WAREHOUSE MANAGER FOR EPJ LOCATION.

SEAFOOD ROAD SHOW DROP CORD. VERIFY LOCATION WITH OWNER.

30A, 120/208V, 1Ø , RECEPTACLES FOR PIE CASE POWER. E.C. TO COORDINATE WITH OWNER BEFORE ROUGH-IN & INSTALL.

POWER FOR WIRELESS KIOSK. E.C. TO MAKE ALL FINAL CONNECTIONS AS REQUIRED. COORDINATE W/ WAREHOUSE MANAGER FOR EXACT LOCATION.

JEWELRY COUNTER OUTLET & SECURITY ALARM POWER. VERIFY LOCATIONS.

2 #4 & 1 #2 WALKER FLOORDUCT, CORE DRILLED WITH 8" INSERT. SEE DETAIL 1/E-8 SPEC. & NOTE (3)

FIELD VERIFY EXACT LOCATION WITH COSTCO PM. SEE DETAIL ON THIS SHEET.

CONVENIENCE RECEPTACLE. VERIFY LOCATION WITH OWNER, TYPE OF 5.

VENDING MACHINE TYP. 3

ATM MACHINE & GIFT CARD READER. VERIFY EXACT LOCATION W/ ARCH.

WALKER J-BOX FOR TWO #4 AND ONE #2 FLOORDUCT WITH 7-1/2"C INSERT RING. SEE DETAIL (THIS SHEET)

2 #4 & 1 #2 WALKER FLOORDUCT

FLOORDUCT 90° BEND UP 4"X4"X2" GUTTER. +24" A.F.F IN TIRE SALES WALL. REFER TO ARCH DWG.

L5-20R (20A, 120V, 1 Ø SINGLE ISOLATED GROUND LOCKING RECEPTACLE) - HUBBEL IG2310 W/ HUBBLE SS720 COVERPLATE. MOUNT AT +6'-0"

1 #4 & 1 #2 WALKER FLOORDUCTS.

WALKER J-BOX FOR TWO #4 AND ONE #2 FLOORDUCT WITH 7-1/2"C INSERT RING. SEE DETAIL (THIS SHEET)

(2) 3"C FROM 7'-0" AFF ABOVE IDF TO MAIN SALES TRUSS SPACE

1" C.O W/ PULL WIRE TO CEILING. +20' A.F.F

DRY SPINKLER SYSTEM COMPRESSOR VERIFY LOCATION WITH SPRINKLER CONTRACTOR BEFORE ROUGH-IN & INSTALL

SECURITY CAMERA OUTLET ROUGH IN & LABEL BY DAY 60 POWER BY DAY 77.

PROVIDE 4' X 18" CLEAR SPACE ABOVE DOOR FOR FUTURE AIR DOOR.

SLIDING DOOR POWER. E.C. MAKE FINAL CONNECTIONS. TYP OF 2

BATTERY CHARGERS
SCALE: 1/16" = 1'-0"

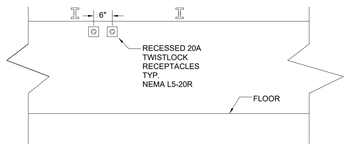
POWER PLAN
SCALE: 1/16" = 1'-0"

PLAN NOTES - E2

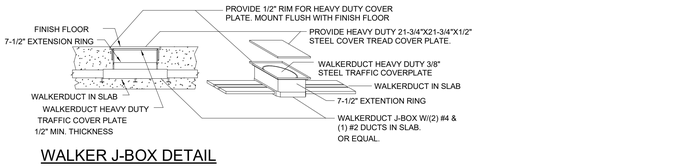
#	
1	E.C. TO MAKE ALL CONNECTIONS TO BATTERY CHARGERS & AIR DOORS INCLUDING CONTROL WIRING.
2	COMPACTOR, BALER, AND BATTERY CHARGERS FURNISHED BY OWNER. ALL ELECTRICAL DEVICES ARE PROVIDED AND INSTALLED BY E.C. E.C. TO MAKE ALL FINAL CONNECTIONS. VERIFY WITH G.C. AND EQUIPMENT SUPPLIER FOR ACTUAL ELECTRICAL RATINGS. CONNECTION AS REQUIRED.
3	FLOOR DUCT BY E.C. COORDINATE INSTALLATION WITH G.C./I.B.M. FLOOR RECEPTACLES ARE PART OF WALKERDUCT PACKAGE. INSTALL PER MANUFACTURER'S INSTRUCTION. PROVIDE FITTINGS, J-BOXES AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE AN ADDITIONAL 1/2" THICK COVERPLATE FOR WALKERDUCT J-BOX AS SHOWN IN DETAIL. FLUSH MOUNT ON FLOOR. VERIFY EXACT LOCATIONS PRIOR TO ROUGH IN. E.C. SHALL MAKE ALL FINAL CONNECTIONS TO CASH REGISTERS. PROVIDE FEEDERS FROM FLOOR DUCT ACCESS TO RECEPTACLES IN REGISTER CENTER BASE. FEEDERS IN HARD CONDUIT WHERE EXPOSED. SEE I.B.M. DIAGRAM.
4	OVERHEAD CONDUITS FROM SALES AREAS TO ELECTRICAL ROOM SHALL BE RUN ABOVE OFFICE AREA. DO NOT RUN ON WALL. SEE GENERAL NOTES ON E-1.
5	MAU AND AC UNITS ARE LOCATED ON ROOF. VERIFY EXACT LOCATION WITH M.C. BEFORE ROUGH-IN INSTALLATION. HVAC POWER SHALL BE OVERHEAD. DO NOT RUN CONDUIT UNDERGROUND OR ON ROOF. DISCONNECT ROOF RECEPTACLE ARE PART OF UNIT EXCEPT FOR MAU. E.C. PROVIDE HACR BREAKER IN NEMA-3R ENCLOSURE AND WP, GFI ROOF RECEPTACLE.
6	SEE SPECIFICATIONS FOR FIRE SPRINKLER SYSTEM POWER. E.C. MAKES FINAL CONNECTIONS FOR A COMPLETE SYSTEM
7	E.C. TO RECESS ALL ELECTRICAL EQUIPMENT ON MEMBERSHIP WALL IN WALL IF POSSIBLE. CONCEAL ALL CONDUITS IN WALL. SEE ARCH ELEVATION FOR LOCATIONS.
8	E.C. AND G.C. TO COORDINATE WITH SECURITY SYSTEM CONTRACTOR SUCH THAT SECURITY CONTRACTOR CAN INSTALL SECURITY SYSTEM CONDUIT PRIOR TO WALLS BEING CLOSED UP.

PLAN NOTES - E2

#	
9	PROVIDE A COMPLETE FIRE ALARM SYSTEM INCLUDING ALL HVAC DUCT DETECTORS. PROVIDE SHOP DRAWINGS & APPROVED DRAWINGS FROM LOCAL FIRE MARSHAL FOR FIRE ALARM SYSTEM. SEE FIRE ALARM SPECIFICATION.
10	E.C. PROVIDE RED COVERPLATE AND ORANGE IG RECEPTACLES FOR ALL PANEL C1 RECEPTACLES. PROVIDE LABEL 'UPS PROTECTED OUTLET, I.S. EQUIPMENT ONLY' AT TOP OF COVERPLATE AND 'C1' (CIRCUIT #) AT BOTTOM.
11	E.C. TO VERIFY EXACT LOCATION WITH COSTCO CONSTRUCTION PROJECT MANAGER FOR SALES AREA DROP CORDS. TYPICAL. NUMBER OF DROP CORDS SHOWN IN CONTRACT SET IS MAXIMUM ALLOWED IN CONTRACT. NO ADDITIONAL ALLOWED IN BUILDING CONTRACT.
12	RUN 1#4 WALKERDUCT FROM J-BOX TO GUTTER AS SHOWN. PROVIDE BEND, FITTING ETC. AS REQUIRED.
13	E.C. SHALL MAKE ALL FINAL CONNECTIONS. COORDINATE WITH SERCO SUPPLIER BEFORE INSTALLATION. SEE DETAIL 2/E-9.
14	DOOR HARDWARE: E.C. SHALL PROVIDE SQ-D CLASS 9070 TF75D18 STEP-DOWN TRANSFORMER WITH CLASS 9991 ENCLOSURE, PRIMARY DISCONNECT, PRIMARY AND SECONDARY FUSING (FB3A FOLDER, 0.5A PRIMARY FUSES, 0.75A SECONDARY FUSES) AND ALL LOW VOLTAGE WIRING. SEE SPECIFICATION.
15	E.C. TO PROVIDE PULL STRING AND TAG AT BOTH ENDS FOR FUTURE CASH REGISTER (FROM EACH FUTURE REGISTER TO EACH PANEL (P2 & C1))
16	MOUNT IDF RECEPTACLE @7'-0" ADD ON WALL ABOVE IDF.
17	E.C. SHALL PROVIDE 3/4" C.O. WITH PULL STRING FROM ALL KNOX BOXES TO THE JOIST SPACE ABOVE. CONDUIT SHALL BE WITHIN WALL SPACE AND NOT SURFACE MOUNT. SEE FIRE PROTECTION DRAWINGS FOR KNOX BOXES LOCATIONS.
18	E.C. TO RUN 1" CONDUIT FROM WAREHOUSE ENTRY TO EDP ROOM FOR FUEL FACILITY ALARM EQUIPMENT. SEE ARCHITECT DRAWINGS FOR EXACT LOCATION.
19	RECEPTACLES MOUNTED ON POS COOLER/FREEZER ARE GFI RECEPTACLE IN CAST BOX WITH FLIP COVERS. RECESS IN COOLER BOX WHEN POSSIBLE.
20	E.C. DUCT ACCESS UNDER MEMBERSHIP COUNTER AND CONNECT FLOATING MEMBERSHIP DESK POWER FROM MAIN MEMBERSHIP POWER AS SHOWN.



TEMPORARY CANOPY POWER DETAIL



WALKER J-BOX DETAIL

STATE OF MISSOURI
JOEL G. MORTENSON
NUMBER PE-2024000146
PROFESSIONAL ENGINEER
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/17/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

T.E., INC.
1610 N. WESTERN DRIVE
SUITE 200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

© T.E., Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc. he reproduced in any form or by any

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE

#

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

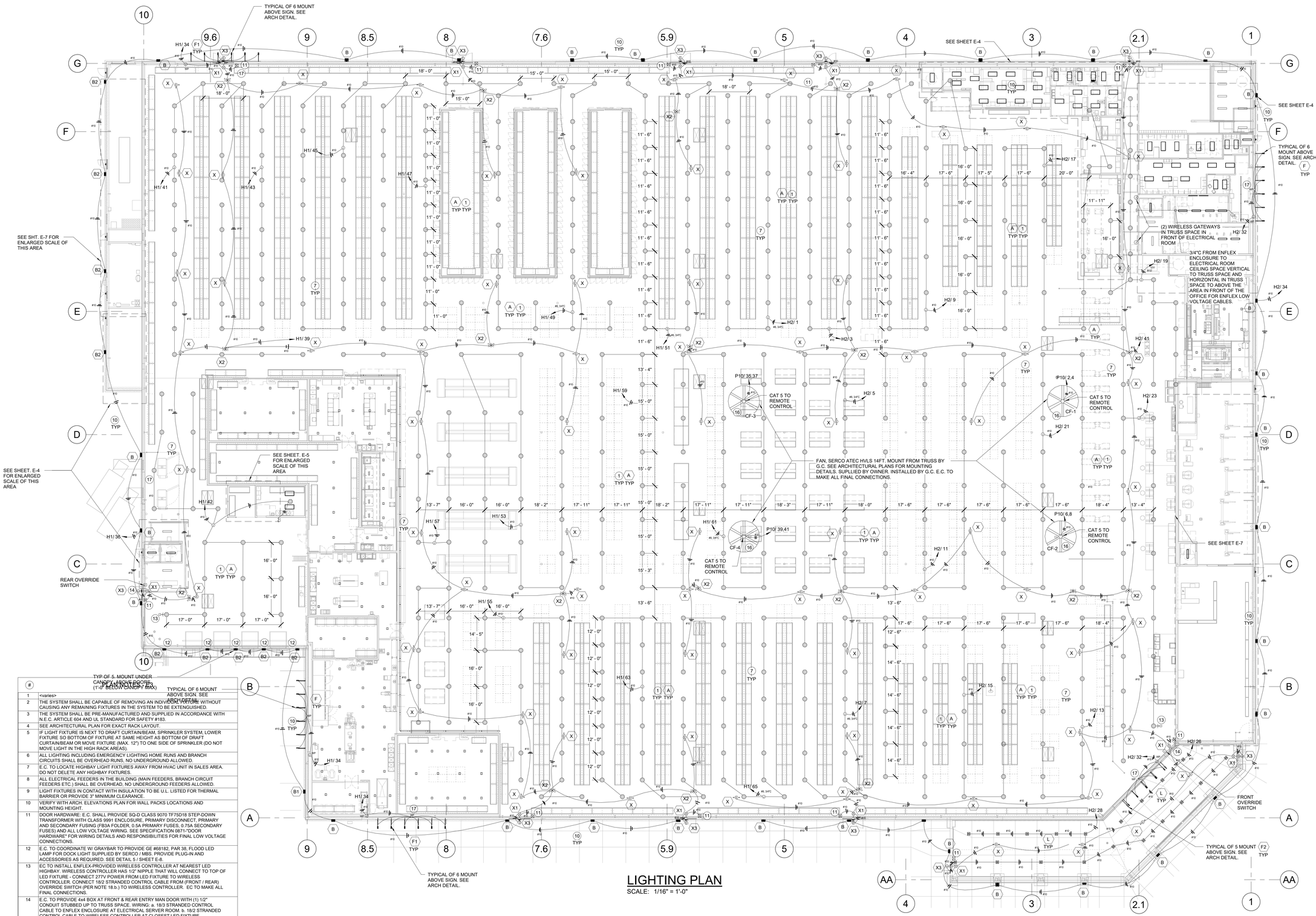
POWER PLAN

E-2

12/22/2025 5:56:31 PM C:\Users\mwidjaja\Documents_346_E_CENTRAL 2023_mwidjaja5H9M6.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:56

PERMIT



#	
1	<varies>
2	THE SYSTEM SHALL BE CAPABLE OF REMOVING AN INDIVIDUAL FIXTURE WITHOUT CAUSING ANY REMAINING FIXTURES IN THE SYSTEM TO BE EXTENGUISHED.
3	THE SYSTEM SHALL BE PRE-MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH N.E.C. ARTICLE 604 AND UL STANDARD FOR SAFETY #183.
4	SEE ARCHITECTURAL PLAN FOR EXACT RACK LAYOUT.
5	IF LIGHT FIXTURE IS NEXT TO DRAFT CURTAIN/BEAM, SPRINKLER SYSTEM, LOWER FIXTURE SO BOTTOM OF FIXTURE AT SAME HEIGHT AS BOTTOM OF DRAFT CURTAIN/BEAM OR MOVE FIXTURE (MAX. 12") TO ONE SIDE OF SPRINKLER (DO NOT MOVE LIGHT IN THE HIGH RACK AREAS).
6	ALL LIGHTING INCLUDING EMERGENCY LIGHTING HOME RUNS AND BRANCH CIRCUITS SHALL BE OVERHEAD RUNS, NO UNDERGROUND ALLOWED.
7	E.C. TO LOCATE HIGHBAY LIGHT FIXTURES AWAY FROM HVAC UNIT IN SALES AREA. DO NOT DELETE ANY HIGHBAY FIXTURES.
8	ALL ELECTRICAL FEEDERS IN THE BUILDING (MAIN FEEDERS, BRANCH CIRCUIT FEEDERS ETC.) SHALL BE OVERHEAD, NO UNDERGROUND FEEDERS ALLOWED.
9	LIGHT FIXTURES IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE.
10	VERIFY WITH ARCH. ELEVATIONS PLAN FOR WALL PACKS LOCATIONS AND MOUNTING HEIGHT.
11	DOOR HARDWARE: E.C. SHALL PROVIDE SQ-D CLASS 9070 TF75D18 STEP-DOWN TRANSFORMER WITH CLASS 9991 ENCLOSURE, PRIMARY DISCONNECT, PRIMARY AND SECONDARY FUSING (FB3A FOLDER, 0.5A PRIMARY FUSES, 0.75A SECONDARY FUSES) AND ALL LOW VOLTAGE WIRING. SEE SPECIFICATION 0871-"DOOR HARDWARE" FOR WIRING DETAILS AND RESPONSIBILITIES FOR FINAL LOW VOLTAGE CONNECTIONS.
12	E.C. TO COORDINATE W/ GRAYBAR TO PROVIDE GE #68182, PAR 38, FLOOD LED LAMP FOR DOCK LIGHT SUPPLIED BY SERCO / MBS. PROVIDE PLUG-IN AND ACCESSORIES AS REQUIRED. SEE DETAIL 5 / SHEET E-8.
13	EC TO INSTALL ENFLEX-PROVIDED WIRELESS CONTROLLER AT NEAREST LED HIGHBAY. WIRELESS CONTROLLER HAS 1/2" NIPPLE THAT WILL CONNECT TO TOP OF LED FIXTURE - CONNECT 277V POWER FROM LED FIXTURE TO WIRELESS CONTROLLER. CONNECT 18/2 STRANDED CONTROL CABLE FROM (FRONT / REAR) OVERRIDE SWITCH (PER NOTE 18.b.) TO WIRELESS CONTROLLER. EC TO MAKE ALL FINAL CONNECTIONS.
14	E.C. TO PROVIDE 4x4 BOX AT FRONT & REAR ENTRY MAN DOOR WITH (1) 1/2" CONDUIT STUBBED UP TO TRUSS SPACE. WIRING: a. 18/3 STRANDED CONTROL CABLE TO ENFLEX ENCLOSURE AT ELECTRICAL SERVER ROOM. b. 18/2 STRANDED CONTROL CABLE TO WIRELESS CONTROLLER AT CLOSEST LED FIXTURE.
15	E.C. TO VERIFY EXIT LIGHT PATH WITH G-101 PRIOR ROUGH-IN
16	E.C. SHALL PROVIDE DISCONNECT SWITCH, BRING POWER TO FAN AND MAKE ALL FINAL CONNECTIONS. REMOTE CONTROL PROVIDED BY OWNER AND INSTALLED BY E.C. PROVIDE 10V CAT 5 WIRING WITH RJ45 CONNECTORS. CONTROL WIRING TO MICROTHERMO (MT) PANEL BY RC. COORDINATE EXACT REQUIREMENT WITH SUPPLIER PRIOR TO INSTALLATION.
17	SIGN LIGHT DRIVER. PROVIDE 1"C FROM DRIVER TO EACH SIGN LIGHT. MOUNT DRIVER ON BACK OF PARAPET IF POSSIBLE. OTHERWISE PROVIDE UNISTRUT FRAME WORK MOUNTED ON STANDING SEAM OF ROOF. COORDINATE REQUIREMENTS OF ROOF MOUNTING WITH SPAN.

LIGHTING PLAN
SCALE: 1/16" = 1'-0"

STATE OF MISSOURI
JOEL G. MORTENSON
NUMBER PE-2024000146
PROFESSIONAL ENGINEER
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

PROJECT STATUS: ISSUED FOR CONSTRUCTION

△	DATE	DESCRIPTION
	11/26/25	ISSUED FOR QA
	12/17/25	ISSUED FOR PERMIT

D.T.E., Inc.
All plans, designs, etc. are part of the work and are not to be used on any other project without permission in writing from D.T.E., Inc. Reproduction of these plans without permission is prohibited by law.

D.T.E., INC.
9725 N. RIVERSIDE DRIVE
SUITE #300
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#_ _ _

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

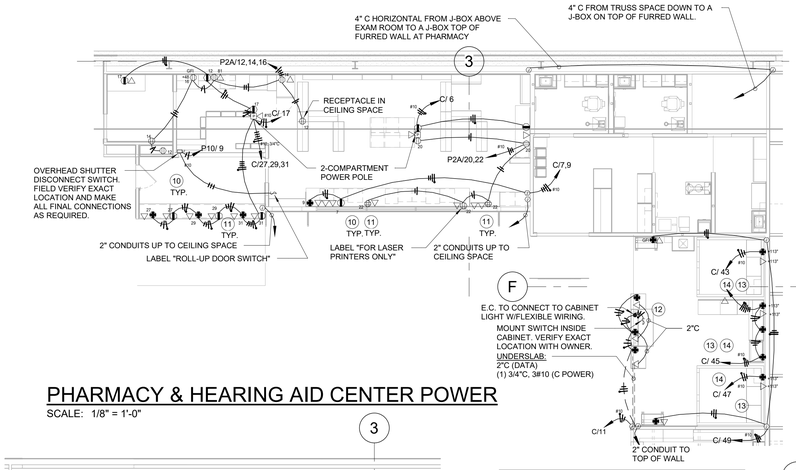
LIGHTING PLAN

E-3

12/22/2025 5:57:08 PM C:\Users\mwidjaja\Documents_346_E_CENTRAL 2023_mwidjaja5HDM6.rvt

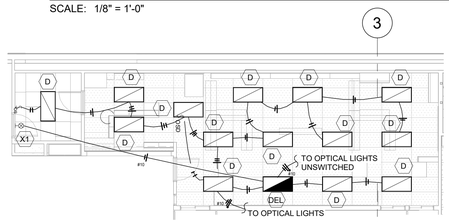
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:56

PERMIT



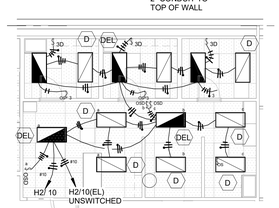
PHARMACY & HEARING AID CENTER POWER

SCALE: 1/8" = 1'-0"



PHARMACY LIGHTING

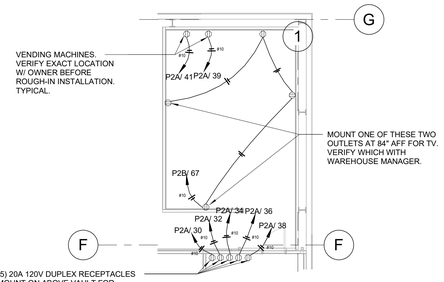
SCALE: 1/8" = 1'-0"



OPTICAL LIGHTING

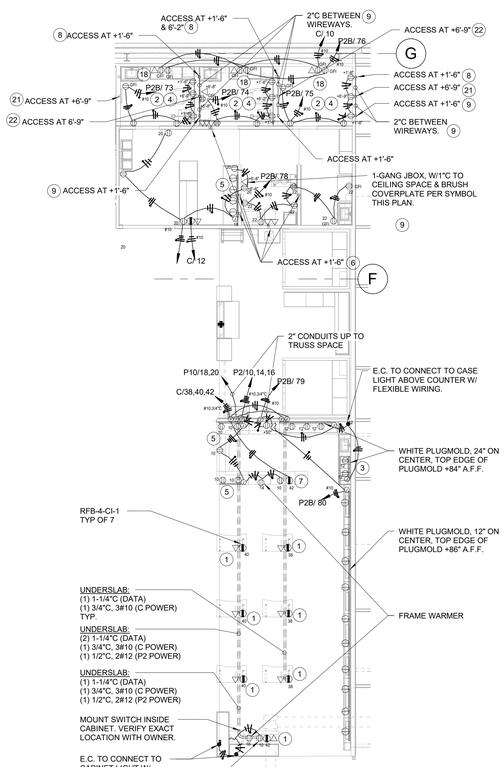
SCALE: 1/8" = 1'-0"

#	PLAN NOTES - E4
1	FLOOR BOX & ASSOCIATED ACCESSORIES (MAKE: LEGRAND, MODEL: RFB-4-CI-1, CILT-2AB, FPBTCBK, FP-CTR, & PKER-30) FOR RECEPTACLE AND DATA OUTLET. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN INSTALLATION.
2	E.C. TO MAKE ALL FINAL ELECTRICAL CONNECTIONS (INCLUDING LOW-VOLTAGE) FOR ALL OWNER SUPPLIED EQUIPMENT.
3	PLUGMOLD & LIGHTING IN KIOSK ARE SUPPLIED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR.
4	ALL OUTLETS, LIGHT SWITCHES, ELECTRICAL DEVICE, OUTLETS SHALL ALSO BE TAMPER RESISTANT IN EXAM ROOMS SHALL BE HOSPITAL GRADE. NO M.C. (FLEX) WIRING ALLOWED. PER NEC 517-13.
5	PROVIDE PLUGMOLD, WITH RECEPTACLE EVERY 12" ON CENTER, MOUNT PLUGMOLD ABOVE COUNTER
6	WHITE 2-GANG BRUSH COVERPLATE, WITH LOW VOLTAGE 2-GANG MOUNTING PLATE WITH ACCESS PENETRATION (2-1/2" SNAP IN BUSHING) TO HOFFMAN 3"x3" WIREWAY FOR OWNER INSTALLED DATA CABLING AT HEIGHTS SHOWN ON POWER PLAN. PROVIDE AN ADDITIONAL 2-1/2" SNAP IN BUSHING TO HOFFMAN 3"x3" WIREWAY AT 8'-6" (IN CEILING SPACE, NO COVERPLATE NEEDED), TYPICAL FOR ALL DATA CHASES. PROVIDE ALL ACCESSORIES AS REQUIRED. BUSHING, COVERPLATE, MOUNTING PLATE & 9-FT HOFFMAN 3"X3" WIREWAYS TO BE PURCHASED / SUPPLIED FROM GRAYBAR ELECTRIC (206-292-4848). SEE DETAIL 15/E-8 AND ARCHITECTURAL OPTICAL PLANS. PROVIDE PULL STRING IN CHASES.
7	MOUNT CLEAN POWER RECEPTACLE IN LOWER CABINETRY ON THE INNER SIDE WALL OF CABINET TO MAKE SURE CABINET DRAWER CAN CLOSE PROPERLY WITH CORD PLUGGED INTO THE RECEPTACLE. COORDINATE EXACT LOCATION WITH REGIONAL OPTICAL MANAGER.
8	SAME AS NOTE #6, EXCEPT USE HOFFMANN 4"x4" WIREWAY AT THIS LOCATION IN EACH OPTICAL EXAM.
9	WHITE 2-GANG BRUSH COVERPLATE, WITH LOW VOLTAGE 2-GANG MOUNTING PLATE WITH ACCESS PENETRATION (2-1/2" SNAP IN BUSHING) TO HOFFMAN 4"x4"(X12") WIREWAY FOR OWNER INSTALLED DATA CABLING AT HEIGHTS SHOWN ON POWER PLAN. PROVIDE 2" HORIZONTAL CONDUIT BETWEEN THE (2) 4"X4" WIREWAYS IN EACH EXAM ROOM. 1-FT HOFFMAN 4"X4" WIREWAYS TO BE PURCHASED / SUPPLIED FROM GRAYBAR ELECTRIC (206-292-4848). SEE DETAIL 15/E-8 AND ARCHITECTURAL OPTICAL PLANS. PROVIDE PULL STRING IN CHASES.
10	MOUNT RECEPTACLES, DATA/TELEPHONE OUTLETS, J-BOXES ETC. INSIDE COUNTER. ROUTE CONDUITS TO WALL FOR VERTICAL RUNS. PROVIDE 3/4"C FROM EACH INDIVIDUAL DATA/TELEPHONE OUTLET TO SIDE WALL J-BOX. COORDINATE W/DATA INSTALLER FOR EXACT REQUIREMENT.
11	MOUNT RECEPTACLES, DATA/TELEPHONE OUTLETS, J-BOXES ETC. RECESSED IN WALL. RUN HORIZONTAL CONDUITS CONCEALED IN WALL TO SIDE WALL FOR VERTICAL RUNS CONCEALED IN WALL UP TO CEILING. PROVIDE 3/4"C FROM EACH INDIVIDUAL DATA/TELEPHONE OUTLET TO SIDE WALL J-BOX, WHICH CONTINUES WITH 2" CONDUIT UP TO CEILING. NO SURFACE-MOUNTED CONDUIT / J-BOX ALLOWED.
12	MOUNT RECEPTACLE INSIDE CABINET FOR CASH REGISTER, PROVIDE GROUND WIRES.
13	RECEPTACLE FOR BOOTH AND LIGHTING & OUTLETS. E.C. TO MAKE ALL FINAL CONNECTIONS.
14	NO CONDUIT ATTACHED TO OR TOUCHING BOOTH.
15	E.C. TO PROVIDE & INSTALL MARK TIMER IN SINGLE GANG BOX TO CONTROL TRANSFER FAN. MANUFACTURER: INTERMATIC MODEL#FF12HC
16	LIGHTING IN ELECTRICAL ROOM SHALL BE CONNECTED TO UNSWITCHED / EL BREAKER POLE.
17	UPS SHUTDOWN PUSH-BUTTON (SQ-D KRRH13, W/ INTERMATIC WP101MKD COVER). PROVIDE RED LAMACOID LABEL "UPS SHUTOFF". LOCATE BUTTON 6" FROM HIDGE OF DOOR OUTSIDE OF ROOM, 6' ABOVE FLOOR.
18	E.C. TO LABEL 'CLEAN POWER' AT TOP OF COVERPLATE AND 'C' (CIRCUIT #) AT BOTTOM.
19	E.C. PROVIDE RED COVERPLATE AND ORANGE IG RECEPTACLES FOR ALL PANEL C1 RECEPTACLES. PROVIDE LABEL 'UPS PROTECTED OUTLET ; IS. EQUIPMENT ONLY' AT TOP OF COVERPLATE AND 'C1' (CIRCUIT #) AT BOTTOM.
20	E.C. SUPPLY AND INSTALL 8"X8"X4" NEMA-1 ENCLOSURE ABOVE CEILING NEAR TF-22 AND TF-23 FOR AIR BALANCE KIT (KIT SUPPLIED BY M.C.), MOUNT KIT AND SUPPLY POWER. LOW VOLTAGE WIRING BY M.C.
21	SAME AS NOTE #6, EXCEPT USE HOFFMAN 5' 3"X3" WIREWAY AT THIS LOCATION. E.C. FIELD CUT.
22	SAME AS NOTE#6, EXCEPT USE HOFFMANN 5' 3"x3" WIREWAY AT THIS LOCATION, ACCESS ON BOTH SIDES OF WALL, WIREMOLD (437-2") ATTACHMENT RINGS.
23	E.C. TO MAKE CONNECTION TO DOOR MAGLOCK POWER SUPPLY. COORDINATE W/VENDOR AND FIELD VERIFY EXACT LOCATION.



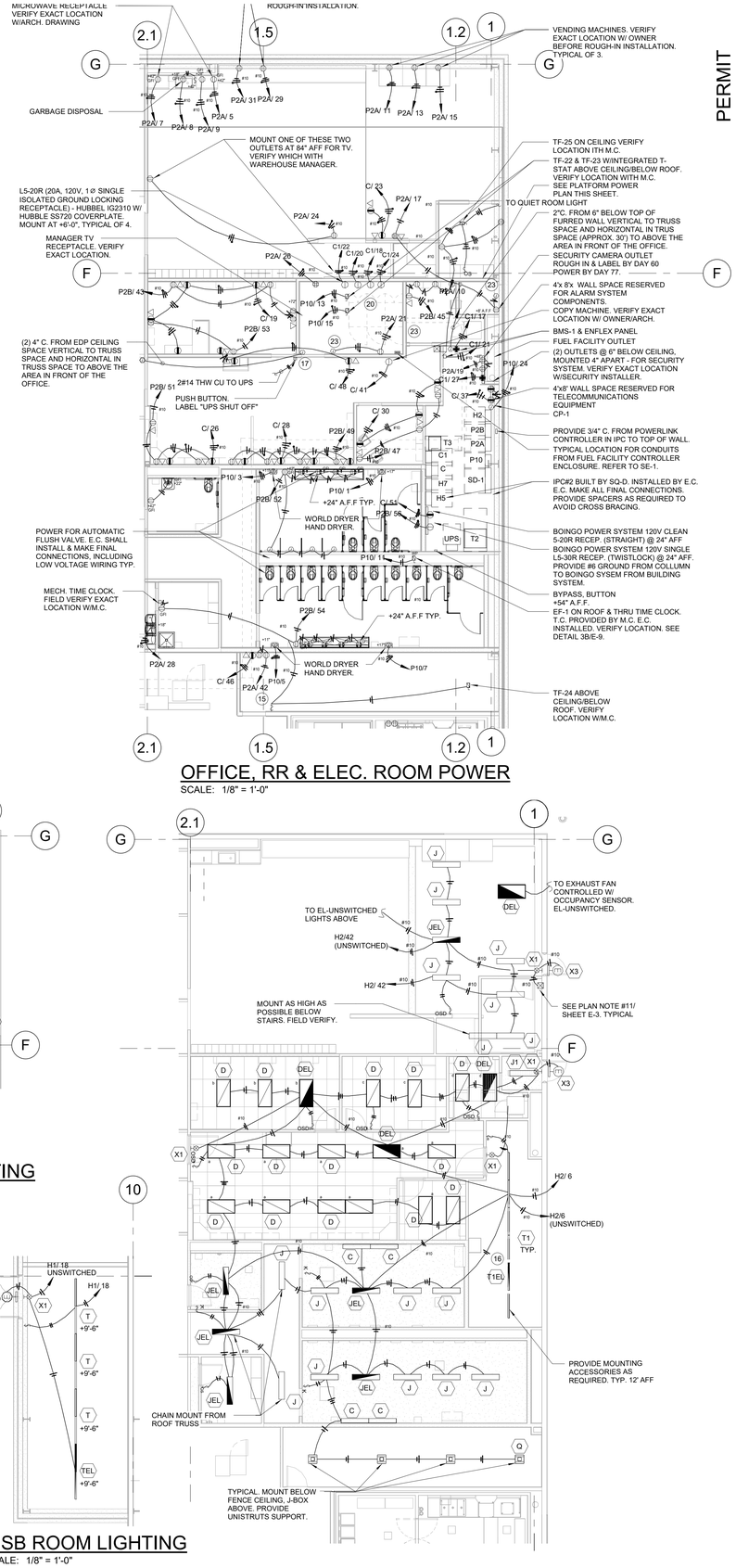
LOCKER ROOM MEZ POWER

SCALE: 1/8" = 1'-0"



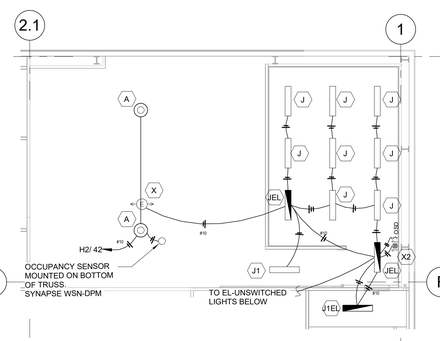
OPTICAL POWER

SCALE: 1/8" = 1'-0"



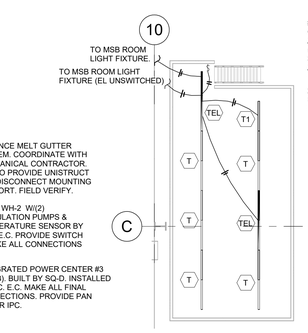
OFFICE, RR & ELEC. ROOM POWER

SCALE: 1/8" = 1'-0"



EMPLOYEE LOCKER MEZZANINE LIGHTING

SCALE: 1/8" = 1'-0"

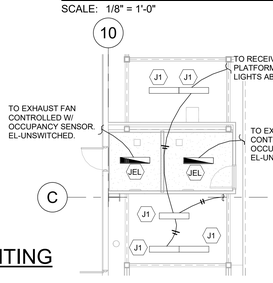


RECEIVING PLATFORM POWER

SCALE: 1/8" = 1'-0"

RECEIVING PLATFORM LIGHTING

SCALE: 1/8" = 1'-0"

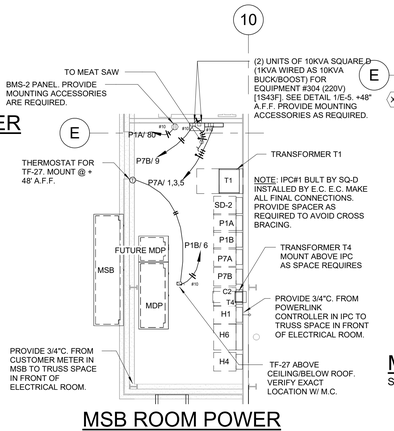


EMPLOYEE RR LIGHTING

SCALE: 1/8" = 1'-0"

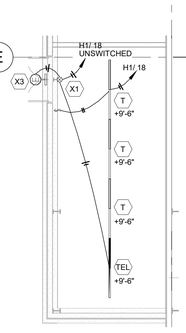
EMPLOYEE & FLEET RR POWER

SCALE: 1/8" = 1'-0"



MSB ROOM POWER

SCALE: 1/8" = 1'-0"



MSB ROOM LIGHTING

SCALE: 1/8" = 1'-0"

T.E., INC.
8160 N. RIVERSIDE DRIVE
SUITE 200
RENTON, WA 98057
PHONE: 425-970-3755
FAX: 425-970-3756

© T.E., Inc.
All rights reserved. Copyright of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

△	DATE	DESCRIPTION
	11/26/25	ISSUED FOR QA
	12/17/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

JOEL G. MORTENSON NUMBER PE-2024000146
PROFESSIONAL ENGINEER
STATE OF MISSOURI
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE

#_ _ _

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

OFFICE, PHARMACY, HEARING, OPTICAL, PUBLIC RESTROOM - POWER AND LIGHTING PLANS, DETAIL & NOTES

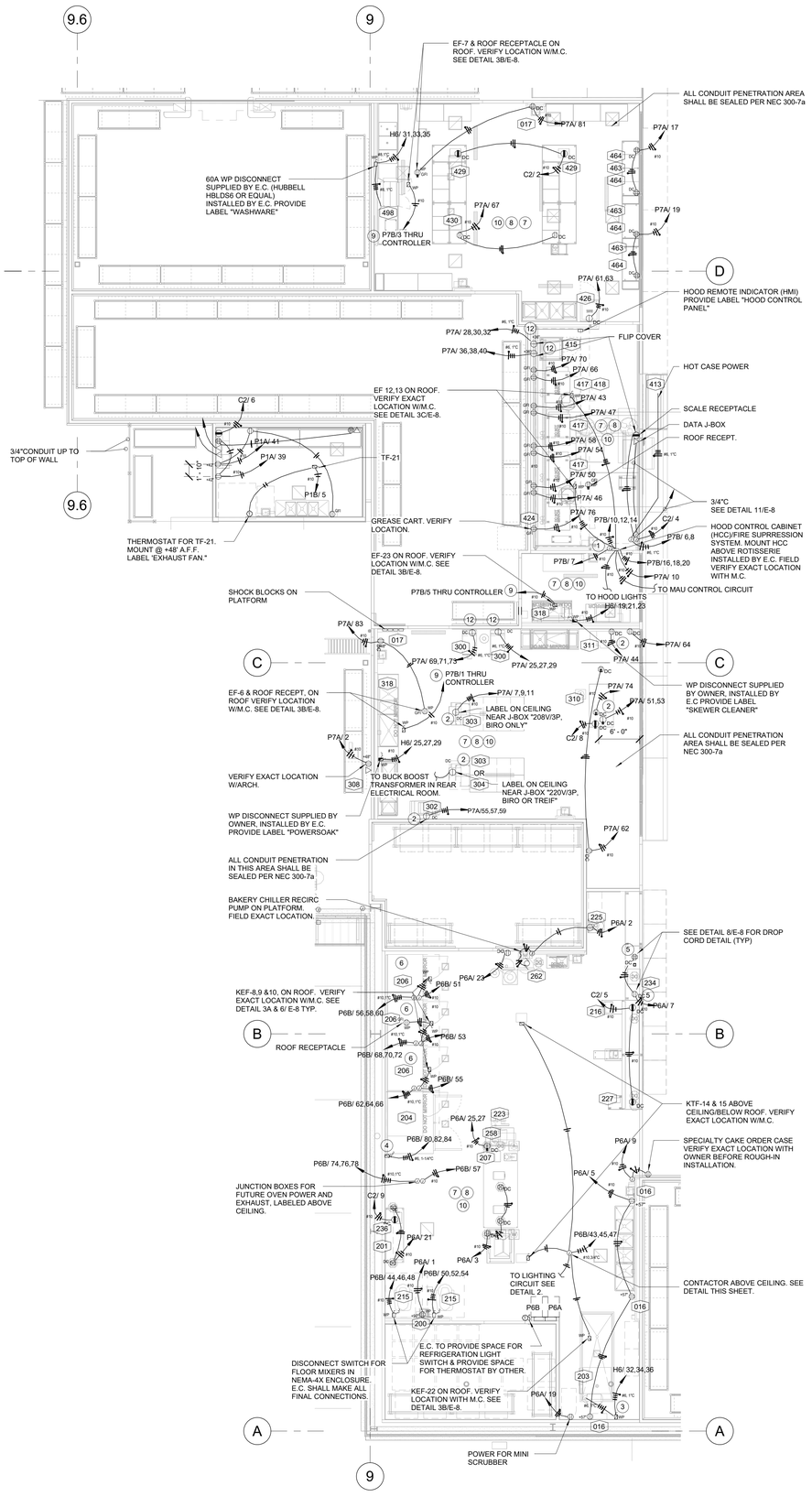
E-4

12/22/2025 5:57:46 PM C:\Users\mwidjaja\Documents_346_E_CENTRAL 2023_mwidjaja5H9M6.rvt

#	BAKERY,SUSHI, MEAT, ROTISSERIE, & DELI DEPARTMENT EQUPIMENT LIST			
	(ALL OUTLETS, J-BOXES, DISCONNECT, ETC... IN MEAT, ROTISSERIE, CHICKEN PREP. BAKERY, & DELI DEPARTMENTS SHALL BE WATERTIGHT TYPE, DROP CORD RECEPTACLES MOUNTING HEIGHT IS 6'-6" UNLESS OTHERWISE SPECIFIED.)			
NUMBER	DESCRIPTION	MCOP	LOADS	REMARKS
016	West Cost Insect Light	20A/1P	115V/1P	WALL MOUNTED DUPLEX OUTLET 57" A.F.F.
017	ECOLAB FORMULA FOAM CLEANING SYSTEM	15A/1P	120V1P, 5A	DROP CORD DUPLEX RECEPT 6'-6" A.F.F.
200	BAXTER WATER METER	20A/1P	115V/1P, 10A	GFI RECEPT, +90" A.F.F. MOUNT BETWEEN PLUMBING PIPING
201	BAXTER SPICE RACK & MIX TABLE	20A/1P	115V/1P	WALL MOUNTED DUPLEX OUTLET 47" A.F.F.
203	LVO RACK WASHER	50A/3P	480V/3P, 35.6A	60A/3P DISCONNECT SWITCH WITH 50AF. 480V/3P/4W +48" A.F.F. SEE NOTE 3
204	HOBART PWSS-SEFAAA PROOFBOX	45A/3P	208V/3P, 35.5 FLA	60A/3P DISCONNECT SWITCH WITH 45AF +84" A.F.F.
206	HOBART/BAXTER RACK OVEN	30A/3P	208V/3P, 5A & 120V/1P, 20A	DIRECT WIRE TO OVEN
207	COMTEC PIE STAMP MACHINE	20A/2P	208V/1P, 10A	NEMA 6-20R, DROP CORD SINGLE OUTLET 6'-6" A.F.F.
215	HOBART MIXER - 140 QT	30A/3P	208V/3P, 5HP, 14.4A	30A/3P DISCONNECT SWITCH, DIRECT WIRING.
216	BAKERY SCALES	20A/1P	120V/1P, 1.42A	DROP CORD SINGLE ISOLATED GROUND OUTLET 6'-6" A.F.F. DEDICATED CIRCUIT & GROUND
223	MUFFIN DEPOSITOR	20A/1P		DROP CORD DUPLEX RECEPT 6'-6" A.F.F.
225	20QT MIXER	20A/1P	120V/1P, 11.5A	DROP CORD DUPLEX RECEPT 6'-6" A.F.F.
227	LABEL PRINTER	20A/1P	115V/1P	DROP CORD SINGLE ISOLATED GROUND OUTLET 6'-6" A.F.F. DEDICATED CIRCUIT & GROUND
234	CAKE SLICER	20A/1P		DROP CORD GROUND OUTLET. 6'-6" A.F.F.
236	DIGITAL SCALE	20A/1P	115V/1P	DROP CORD GROUND OUTLET. 6'-6" A.F.F.
258	MOULDER	20A/2P	208V/1P, 8A	NEMA 6-20R, DROP CORD SINGLE OUTLET 6'-6" A.F.F.
262	FAN WITH BASE	20A/1P	115V/1P, 2.5A	DROP CORD DUPLEX RECEPT 6'-6" A.F.F.
300	BIRO MIXER/GRINDER	60A/3P	208V/3P, 7.5HP	DROP CORD WATERPROOF SINGLE OUTLET 6'-6" A.F.F. RECEPTACLE & PLUG SUPPLIED BY OWNER, E.C. INSTALLED.
302	ROSS MEAT TENDERIZER	20A/3P	208V/3P, 3HP, 16.5A	DROP CORD WATERPROOF SINGLE OUTLET 6'-6" A.F.F. SEE NOTE 2. HBL2423SW CONNETOR (RECEPTACLE). PLUG SUPPLIED BY OWNER, E.C. INSTALLED.
303	BIRO MEAT SAW	20A/3P	208-230V/3P, 2HP, 10.5 FLA	DROP CORD WATERPROOF SINGLE OUTLET 6'-6" A.F.F.
304	TREIF MEAT SAW	20A/3P	220V/3P, 3KW	DROP CORD WATERPROOF SINGLE OUTLET 6'-6" A.F.F. RECEPTACLE & PLUG SUPPLIED BY OWNER, E.C. INSTALLED.
308	FAT TESTER	20A/1P	115V/1P, 15A	WALL MOUNTED SINGLE ISOLATED GROUND OUTLET 4'-0" A.F.F. DEDICATED CIRCUIT & GROUND
310	WRAP STATION - PRINTER LABELER	20A/2P	208V/1P, 2.7KVA (D/G)	WATER PROOF WHITE DROP CORDS (1) 20A/2P DEDICATED CIRCUIT & GROUND. SEE NOTE 2. WITH LEVITON 26W48 PLUG (1'-0" AFF) LEVITON 27W48 CONNECTOR (RECEPTACLE) (1) 20A/1P DUPLES & (1) 20A/1P ISOLATED GROUND DUPLEX (-1'-0" AFF)
311	METTLER TOLEDO HAND WRAP	20A/1P	115V/1P, 1000W	DROP CORD DUPLEX RECEPT 6'-6" A.F.F.
318	POWER SOAK SYSTEM	15A/3P	460V/3P, 11.6A	NEMA-4X MANUAL STARTER. MOUNT AT 48" A.F.F. DO NOT MOUNT ON SINK. STAINLESS STEEL BACKSPLASH
413	HARDT, MERCHANDISER HOT CASE (ZONE 8)	50A/2P	208V/1P, 7700W	DIRECT WIRING
415	ELOMA COMBI OVEN STACKED 6-11/6-11	50A/3P	208V/3P, 14.3KW	WALL MOUNTED OUTLETS +36" A.F.F. PROVIDE CORD AND PLUG
417	INFERNO OVEN	20A/1P	120V/1P, 7.5A EA	WALL MOUNTED DUPLEX OUTLET. +36" & +60" A.F.F. BOTTOM OVEN DUPLEX SUPPLIES GREASE RESERVOIR (3A)
418	CHICKEN ROTISSERIES OVEN HOOD	20A/1P		15A FUSED
424	GREASE CART (PUMP & HEATER)	20A/1P	120V/1P 9.2A	20A RECEPTACLE
426	BLAST CHILLER	30A/2P	208V/1P, 18.0A	WATERPROOF DROP CORDS. PROVIDE CORD & NEMA L6-30R @ 6'-6" AFF
429	TOLEDO DELI SCALE & PRINTER	20A/1P	115V/1P	DROP CORD SINGLE ISOLATED GROUND OUTLET. 6'-6" A.F.F. DEDICATED CIRCUIT & GROUND. (FOR ROTISSERIE UNIT: CONNECT TO HOT CASE RECEPTACLE)
430	FP250 FOOD PROCESSOR	20A/1P	120V/1P, 8A	20A/1P, DROP CORD DUPLEX RECEPT. 6-6" A.F.F.
463	SUSHI CUTTER	20A/1P	120V/1P, 140W	DROP CORD QUAD RECEPT 6'-6" A.F.F.
464	SUSHI ROLLER MAKING MACHINE	20A/1P	120V1P, 80W	DROP CORD QUAD RECEPT 6'-6" A.F.F.
498	WASHWARE LINE	40A/3P	480V/3P, 30.1A	NEMA-4X MANUAL STARTER. MOUNT AT 48" A.F.F

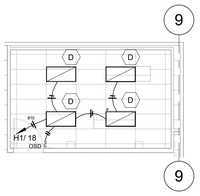
PROVIDE FLIP LIDS FOR ALL OUTLETS IN FRESHLINE AND FOOD SERVICE. LEVITON WM1V-GY, WM1D-SGY AND WP2G OR EQUAL.

#	PLAN NOTES - E5
1	E.C. TO MAKE ALL CONNECTIONS TO THE FIRE SUPPRESSION SYSTEM FOR OVENS. PROVIDE POWER, CONDUITS, RELAY & WIRES AS REQUIRED FOR A COMPLETE SYSTEM. INCLUDING LOW VOLTAGE WIRING. COORDINATE WITH FIRE SUPPRESSION SYSTEM & FIRE ALARM SYSTEM CONTRACTOR. SEE FIRE ALARM SPECIFICATION.
2	E.C. TO PROVIDE SINGLE RECEPTACLE, PLUG-IN WITH WATERTIGHT DEVICES EQUAL TO HUBBEL PIN AND SLEEVE WATERTIGHT DEVICES FOR DROPCORD. DO NOT USE WATERPROOF BOX FOR RECEPTACLE.
3	E.C. TO HARDWIRE FEEDER FOR RACK WASHER FROM DISCONNECT UP TO CEILING AND DROPPED TO RACK WASHER. PROVIDE CONDUIT SUPPORT PER CODE. ALLOW MINIMUM OF 3' CLEARANCE IN FRONT OF DISCONNECT SWITCH. E.C. TO MAKE FINAL CONNECTIONS TO RACK WASHER'S STEAM EXHAUST FAN.
4	E.C. TO MAKE FINAL CONNECTION TO PROOFER LIGHT. MOUNT THE PROOFER DISCONNECT ON WALL AS SHOWN.
5	E.C. TO PROVIDE BACK TO BACK DUPLEX RECEPTACLE EQUAL TO WOODHEAD 3000 SERIES.
6	E.C. TO PROVIDE EXTERNAL RELAY IN NEMA-1 ENCLOSURE TO CONTROL EXHAUST FAN. MAKE CONNECTIONS AS REQUIRED. SEE DETAIL 6/E-8 AND DETAIL 2/THIS SHEET.
7	E.C. TO VERIFY EXACT LOCATION WITH COSTCO PM FOR MEAT, BAKERY, ROTISSERIE AND DELI DROP CORDS TYP.
8	ALL ELECTRICAL EQUIPMENTS IN DISH PREP ROOM SHALL BE NEMA-4X.
9	E.C. MAKE ALL FINAL CONNECTIONS FOR POWER SOAK SINK EXHAUST. SEE DETAIL 3 THIS SHEET. PROVIDE JOHNSON CONTROLS CSD-CF0J1-1 CURRENT DEVICE AND SQ-D CLASS 9070 TF50D23 STEP-DOWN TRANSFORMER IN NEMA-1 ENCLOSURE, PRIMARY DISCONNECT, PRIMARY AND SECONDARY FUSING (FB3A FOLDER, 0.5A PRIMARY FUSES, 2.0A SECONDARY FUSES) AND ALL LOW VOLTAGE WIRING. E.C. MAKE FINAL LOW VOLTAGE CONNECTIONS. MOUNT ENCLOSURE ON RECEIVING ELECTRICAL ROOM NEAR PANELS.
10	NO SURFACE MOUNTED CONDUIT IN FRESHLINE. REFRIGERATION TO COORDINATE WITH E.C. TO MOUNT CONDUIT EXTERIOR WALL OF FRESHLINE FACING EXTERIOR WALL OF BUILDING PRIOR TO INSTALLING WALL.
12	E.C. TO PROVIDE SHOCK BLOCK AND MOUNT ON PLATFORM AS SHOWN. SEE DETAIL 4 ON THIS SHEET. E.C. MAKE ALL FINAL CONNECTIONS AND PROVIDE ACCESSORIES AS REQUIRED.



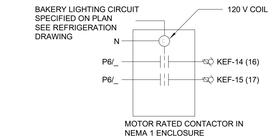
FRESHLINE POWER

SCALE: 1/8" = 1'-0"



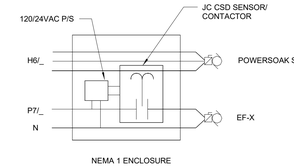
DEMO ROOM LIGHING

SCALE: 1/8" = 1'-0"



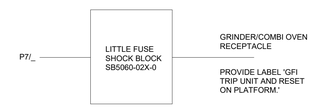
BAKERY KTF CONTROL DETAIL. TYP. 2

NO SCALE



MEAT/DELI/ROT PREP EF CONTROL DETAIL. TYP. 3

NO SCALE



GRINDER/COMBI OVEN GFI CONTROL DETAIL. TYP. 4

NO SCALE

GENERAL NOTES E-5:

ALL OUTLETS, J BOXES, DISCONNECT, ETC..IN ROTISSERIE, MEAT, BAKERY, CHICKEN PREP & DELI DEPARTMENTS SHALL BE WATERTIGHT TYPE. DROP CORD RECEPTACLES SHALL HAVE FLIP COVERS, WALL MOUNTED RECEPTACLES SHALL HAVE IN USE COVERS, EXCEPT AS NOTED. DROP CORD RECEPTACLES MOUNTING HEIGHT IS 6'-6" UNLESS OTHERWISE SPECIFIED.

ALL CONDUITS PENETRATING THE MEAT & DELI BOX ENVELOPE SHALL BE SEALED.

SEE EQUIPMENT SCHEDULE FOR MOUNTING HEIGHT FOR THE WALL MOUNTED EQUIPMENT.

PROVIDE KELLEM WIRE GRIPS ON BOTH ENDS FOR ALL OVERHEAD DROPS.

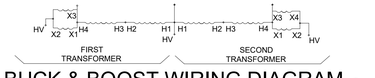
VERIFY EXACT LOCATION OF ALL OUTLETS, J-BOXES, DISCONNECTS, ETC..IN BAKERY, MEAT, DELI & CHICKEN ROTISSERIE DEPARTMENTS WITH OWNER BEFORE INSTALLING.

ELECTRICAL WORK FOR FREEZERS AND COOLERS PROVIDED & INSTALLED BY OWNER. (NOT INCLUDED IN BID). REFER TO REFRIGERATION DRAWINGS.

E.C. SHALL PROVIDE ELECTRICAL PANELS AND BREAKERS ONLY AS SHOWN ON DRAWINGS FOR FREEZERS AND COOLERS. REFRIGERATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUITS, WIRES, RECEPTACLES, FIXTURES AND MOTOR CONNECTIONS AND THEIR INSTALLATIONS STARTING FROM THE BREAKERS. REFRIDGERATION BY OWNER TYP.

E.C. SHALL PROVIDE MATCHING RECEPTACLE ON DROP CORD OR WALK IN BAKERY, MEAT, DELI & ROTISSERIE DEPARTMENT TO MATCH EQUIPMENT PLUG.

E.C. MAKES ALL FINAL CONNECTIONS FOR ALL EQUIPMENT (MOTOR, FAN, STARTEERS, ETC.)



BUCK & BOOST WIRING DIAGRAM 1

NO SCALE

PERMIT

STATE OF MISSOURI
JOEL G. MORTENSON
NUMBER PE-2024000146
PROFESSIONAL ENGINEER
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/17/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

© T.E., Inc.
This drawing is the property of the Engineer and is not to be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
9725 N. DIVISION DRIVE
SUITE 200
BENTON, WA 98037
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#

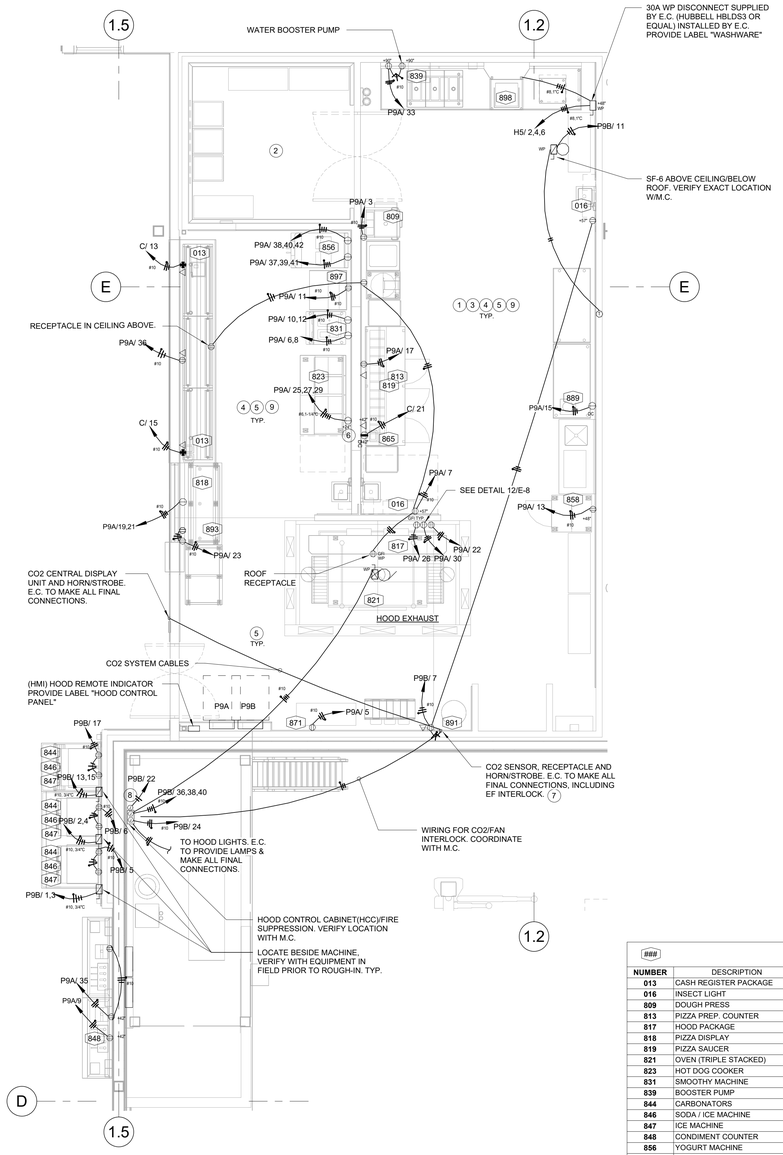
TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

FRESHLINE POWER & DEMO ROOM LIGHTING PLAN, EQUIPMENT LIST, DETAILS, AND NOTES

E-5

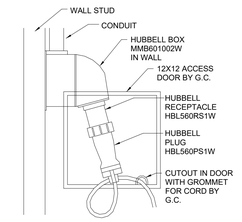
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:57

12/22/2025 5:57:58 PM C:\Users\mwidjaja\Documents_346_E_CENTRAL 2023_mwidjaja5H9M6.rvt



FOOD SERVICE POWER

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



STEAM TABLE POWER

SCALE: NONE

1

#	PLAN NOTES - E6
1	SEE ARCHITECT FOOD SERVICE DRAWINGS FOR LOCATION OF EQUIPMENT LAY OUT.
2	ALL CONDUITS PENETRATING THE WALK-IN COOLER SHALL BE SEALED.
3	PROVIDE MATCHING RECEPTACLES FOR ALL EQUIPMENT AS REQUIRED. VERIFY EXACT NEMA TYPE FROM THE EQUIPMENT SUPPLIER.
4	MAKE ALL FINAL CONNECTIONS FOR ALL EQUIPMENT.
5	ALL OUTLETS, J-BOXES, DISCONNECTS, ETC. IN FOOD SERVICE DEPARTMENT SHALL BE WATERTIGHT TYPE.
6	E.C. TO PROVIDE 60A, 4-POLE, 5 WIRE RECEPTACLES AND PLUG. SEE DETAIL THIS SHEET.
7	E.C. TO MAKE ALL FINAL CONNECTIONS FOR CO2 SENSOR SYSTEM. MOUNT CO2 SENSOR AT 12" MIN. MOUNT HORN/STROBE AND WARNING SHEET AT 60". E.C. MOUNT CENTRAL DISPLAY UNIT AT +60". E.C. TO INSTALL SENSOR, CENTRAL DISPLAY UNIT AND HORN/STROBES AND CABLES PER MANUFACTURER'S INSTRUCTIONS. PROVIDE CABLE EXTENDERS AS REQUIRED. MAKE ALL FINAL CONNECTIONS. IF SENSOR COMES WITH CORD AND PLUG, PROVIDE WP RECEPTACLE WITH IN-USE LOCKABLE METAL COVER. PROVIDE RCB RELAY AS REQURED FOR HOOD INTERLOCK.
8	E.C. TO MAKE ALL CONNECTIONS TO THE FIRE SUPPRESSION SYSTEM FOR OVENS. PROVIDE POWER, CONDUITS, RELAY & WIRES AS REQUIRED FOR A COMPLETE SYSTEM, INCLUDING LOW VOLTAGE WIRING. COORDINATE WITH FIRE SUPPRESSION SYSTEM & FIRE ALARM SYSTEM CONTRACTOR. SEE FIRE ALARM SPECIFICATION.
9	NO SURFACE MOUNTED CONDUIT IN FOOD SERVICE. REFRIGERATION TO COORDINATE WITH E.C. TO MOUNT CONDUIT EXTERIOR WALL OF FOOD SERVICE FACING EXTERIOR WALL OF BUILDING PRIOR TO INSTALLING WALL.

###	FOOD SERVICE EQUIPMENT LIST (E-6)								
NUMBER	DESCRIPTION	VOLTS	PHASE	AMPS	KW	HP	CONNECTION	MOUNTING HTS	MFG & MODEL
013	CASH REGISTER PACKAGE	120	1	5.0 EACH			NEMA 5-20R	+19"	IBM
016	INSECT LIGHT	120	1	2			NEMA 5-20R	+57"	ECOLAB-STEALTH MAXIMA
809	DOUGH PRESS	120	1		0.9		NEMA 5-20R	+42"	DOUGH PRO - DP1300
813	PIZZA PREP. COUNTER	120	1	10.25			NEMA 5-20R	+42	KAIRAK - KRP-96S
817	HOOD PACKAGE	120	1	1 LIGHT			J BOX		CAPTIVEAIRE 6624ND-2-PSP-B
818	PIZZA DISPLAY	120/208	1	14.3			NEMA L14-20R	+19"	HATCO
819	PIZZA SAUCER	120	1	2.5			NEMA L5-20R	+14"	RSD-1-RTM-(1)-CW-CE
821	OVEN (TRIPLE STACKED)	(3) 120	1	10 EACH			NEMA 5-20R		WOLFE XLT 3855-TS
823	HOT DOG COOKER	208	3	39.7			SEE FS PLAN NOTE	+24"	H&K DALLAS
831	SMOOTHY MACHINE	208/208	1	16.0/13.0			NEMA 6-20R	+14"	TAYLOR/342D
839	BOOSTER PUMP	120	1	10			NEMA 5-20R	+90"	MCCANN
844	CARBONATORS	120	1	7			NEMA 5-20R	+14"	MCCANN
846	SODA / ICE MACHINE	120	1	3.0			NEMA 5-20R	+14"	LANCER
847	ICE MACHINE	208	1	12			FUSED DISCONNECT	+122"	MANITOWOC
848	CONDIMENT COUNTER	120	1	6.9			NEMA 5-20R	+12"	UNIVERSAL STAINLESS
856	YOGURT MACHINE	208/208	3/3	21.0/18.0			NEMA 15-30R/15-20R	+14", +18"	TAYLOR/C716
858	REACH IN FREEZER	120	1	11.3			NEMA 5-20R	+48"	TRAULSEN G12011
865	REMOTE PRINTING PACKAGE	120	1	2.0			NEMA 5-20R	+54"	
871	PIZZA WARMER	120	1	12			NEMA 5-15R	+18"	LOCKWOOD/FWS-2127-6
889	TABLETOP WARMER	120	1	12.5			NEMA 5-20R	+18"	APW
891	CO2 DETECTOR	120	1		0.03		NEMA 5-15R	+18"	ANAOX
893	PIZZA BOX WARMER	120	1	2.4			NEMA 5-15R	+18"	HARDT
897	SANDWICH UNIT REFRIGERATOR	115	1	2.46			NEMA 5-15R	+14"	CONTINENTAL
898	WASHWARE LINE	480	3	23.7			30A DISCONNECT		HOBART

PROVIDE FLIP LIDS FOR ALL OUTLETS IN FRESHLINE AND FOOD SERVICE. LEVITON WM1V-GY, WM1D-SGY AND WP2G OR EQUAL.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:57

PERMIT

STATE OF MISSOURI
JOEL G. MORTENSON
NUMBER PE-2024000146
PROFESSIONAL ENGINEER
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

PROJECT STATUS: ISSUED FOR CONSTRUCTION

△	DATE	DESCRIPTION
	11/26/25	ISSUED FOR QA
	12/17/25	ISSUED FOR PERMIT

© T.E., Inc.
These drawings are the property of T.E., Inc. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
9725 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

___

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

FOOD SERVICE - POWER PLAN, EQUIPMENT LIST, DETAIL AND NOTES

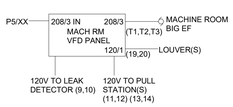
E-6

12/22/2025 5:58:03 PM C:\Users\mwidjaja\Documents_346_E_CENTRAL 2023_mwidjaja5H9M6.rvt

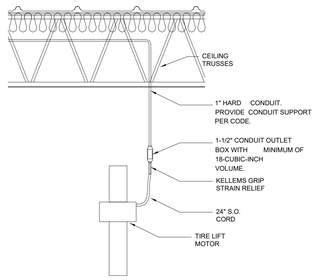
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:57

PERMIT

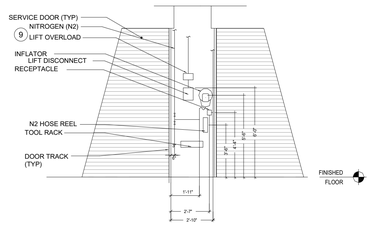
#	PLAN NOTES - E7
1	MOUNT ALL ELECTRICAL DEVICES IN THE TIRE INSTALLATION AT +18" A.F.F ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL & SEALED PER CODE.
2	E.C. TO WIRE ALTERNATING SWITCH BETWEEN COMPRESSORS PROVIDED BY COSTCO.
3	E.C. TO VERIFY IN FIELD LOCATION TIRE SALES COUNTER BEFORE ROUGH-IN AND INSTALLATION OF ALL ELECTRICAL DEVICES. POWER FOR COUNTER THROUGH POWER POLE.
4	E.C. TO COORDINATE WITH REFRIGERATION & MECHANICAL CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO FAN CONTROL PANEL.
5	E.C. TO PROVIDE AND INSTALL CORD & PLUG FOR EURO CHANGER MACHINE. VERIFY IN FIELD.
6	E.C. TO PROVIDE 24" S.O. CORD FOR CONNECTION TO LIFT MOTOR. SEE DETAIL 2/ THIS SHEET. THE REST OF THE FEEDER SHALL BE HARD CONDUIT TO DISCONNECT SWITCH ON WALL. PROVIDE LABEL AT DISCONNECT SWITCH 'LIFT #_'
7	E.C. MAKE ALL FINAL CONNECTION TO CIRC PUMP, WATER HEATER, AND CONTROLLER. COORDINATE WITH M.C.
8	E.C. SHALL BRING POWER TO FAN AND MAKE ALL FINAL CONNECTIONS. REMOTE CONTROL PROVIDED BY OWNER AND INSTALLED BY E.C. PROVIDE 10/ CAT 5 WIRING WITH RJ45 CONNECTORS. COORDINATE EXACT REQUIREMENT WITH SUPPLIER PRIOR TO INSTALLATION.
9	E.C. TO INSTALL 20A OVERLOAD ON TRUCK LIFT. FIELD VERIFY SIZE OF EQUIPMENT BEFORE INSTALLING OVERLOAD.
10	E.C. TO COORDINATE WITH REFRIGERATION & MECHANICAL CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO FAN CONTROL PANEL
11	E.C. POWER RECEPTACLE THROUGH 500KVA SQUARE D (500VA WIRED AS 6.9KVA BUCK/BOOST) FOR EQUIPMENT TIRE CHANGER RECEPTACLE (220V) [500SV 468]. SEE DETAIL 4 ON THIS SHEET. +84" A.F.F. PROVIDE MOUNTING ACCESSORIES AS REQUIRED. PROVIDE LAMACOID LABEL 'TIRE CHANGER RECEPTACLE'.



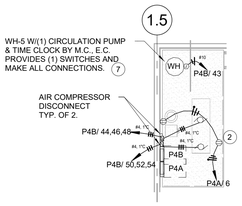
MACHINE ROOM VFD WIRING
NO SCALE — 3

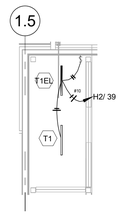


TRUCK LIFT FEEDER DETAIL
SCALE: NONE — 2 / E-7

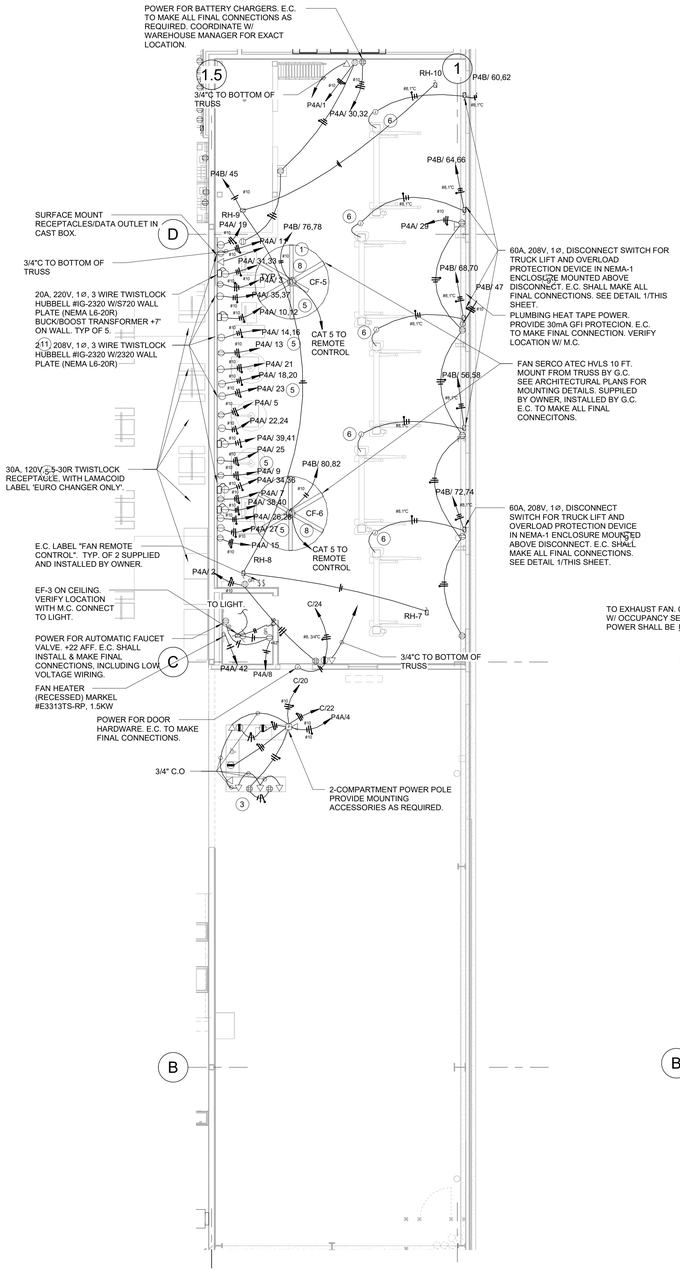


TIRE SERVICE DOOR EQUIPMENT
SCALE: NONE — 1 / E-7

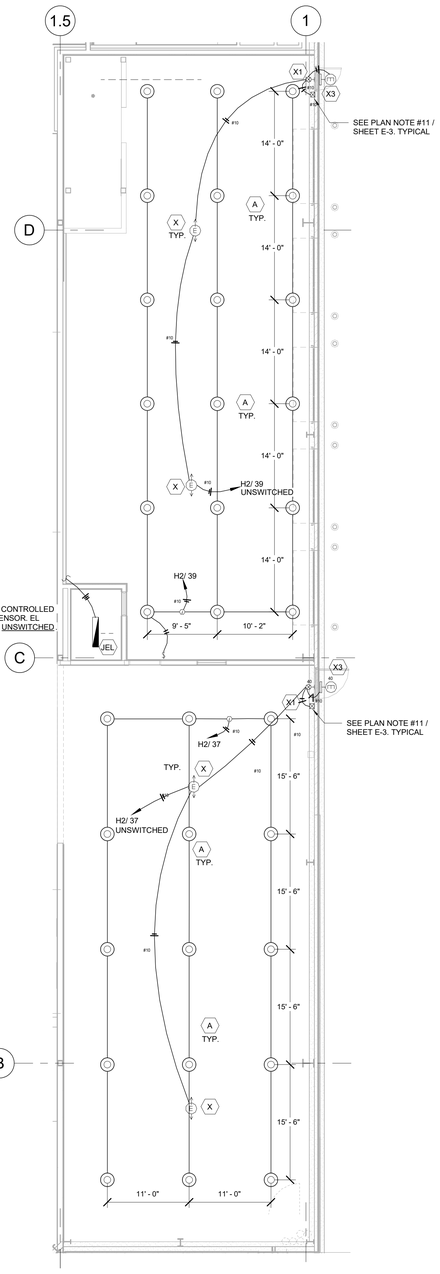


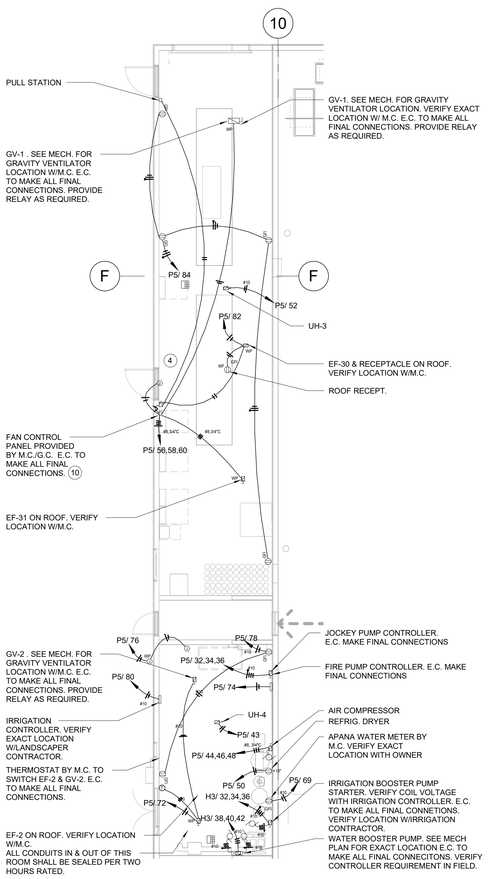


TIRE CENTER PLATFORM POWER
SCALE: 1/8" = 1'-0"

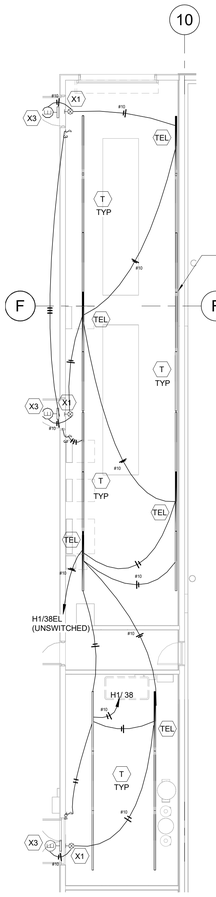


TIRE PLATFORM LIGHTING
SCALE: 1/8" = 1'-0"

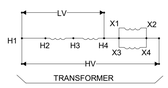




MECHANICAL & PUMP ROOM POWER
SCALE: 1/8" = 1'-0"



MECHANICAL & PUMP ROOM LIGHTING
SCALE: 1/8" = 1'-0"



BUCK & BOOST WIRING DIAGRAM
NO SCALE — 4

© T.E., INC.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., INC.

T.E., INC.
808 N. RIVERSIDE DRIVE
SUITE 230
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/17/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

JOEL G. MORTENSON NUMBER PE-2024000146 — STATE OF MISSOURI — PROFESSIONAL ENGINEER
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE

___

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

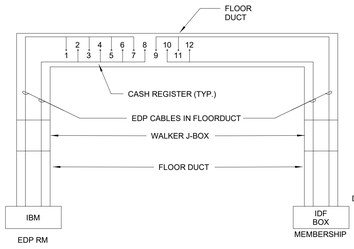
TIRE CENTER, MECHANICAL ROOM POWER & LIGHTING PLANS, DETAILS AND NOTES

E-7

12/22/2025 5:58:21 PM C:\Users\mwidjaja\Documents_346_E_CENTRAL 2023_mwidjaja5H9M6.rvt

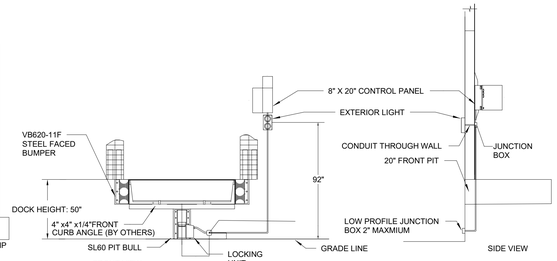
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:57

PERMIT



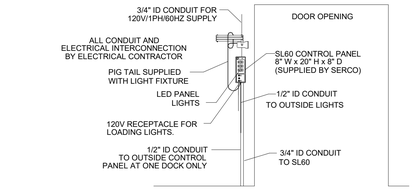
NOTES:
PROVIDE 10' OF CABLE FOR EACH RUN AT IBM (EDP ROOM).
PROVIDE 10' IN AND 10' OUT OF CABLE AT EACH CASH REGISTER.
CABLES ARE PROVIDED BY OWNER, E.C. INSTALLED.
THIS DIAGRAM IS SCHEMATIC ONLY, SEE OWNER REGISTER CABLING SCHEMATIC FOR INSTALLATION.

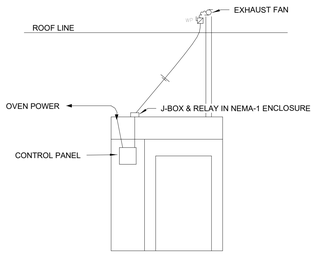
CASH REGISTER WIRING DIAGRAM — 1 / E-2
NO SCALE



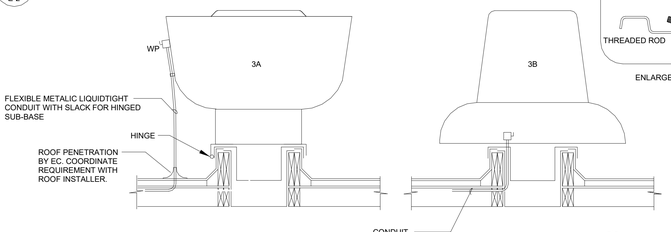
NOTE: ALL CONDUITS FOR DOCK LOCK SYSTEM ARE TO BE 3/4" C. E.C. SHALL MAKE ALL FINIAL CONNECTIONS. COORDINATE WITH SERCO.

DOCK LOCK SYSTEM DETAIL — 2 / E-2
NO SCALE

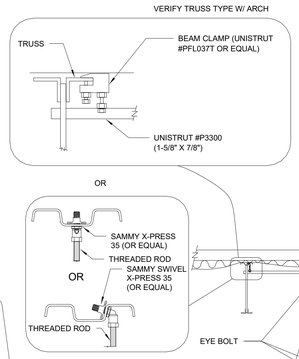




E.C. INSTALL & MAKE FINAL CONNECTIONS. FINAL CONNECTIONS AT CONTROL PANEL BY E.C. UNDER THE DIRECTION OF THE EQUIPMENT MANUFACTURER.



CONDUIT TO EXHAUST FAN DETAIL — 3 / ---
NO SCALE



NOTES:

IF ANY CONFLICTS OCCUR WITH TRUSSES, COORDINATE FIXTURE RELOCATION WITH ARCHITECT/ENGINEER.

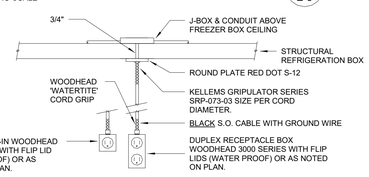
ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MOUNTING ACCESSORIES AS REQUIRED, INCLUDING UNISTRUT AND GRIPPLE STRUT AS REQUIRED FOR FIXTURE MOUNTING.

E.C. CONEECT SAFETY CABLE PROVIDED BY LUMIAIRE MANUFACTURER WITH SELF-CLOSING HOOKS. ATTACH TO THE SAFETY CABLE EYE HOOK ON LUMINAIRE AND THE OTHER TO THE NEAREST BUILDING STRUCTURE. NOT UNISTRUT. TYPICAL ALL HIGHBAYS.

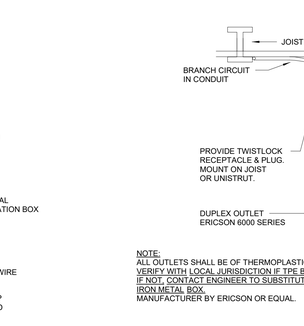
ILLUMADYNE HIGHBAY FIXTURE MOUNTING DETAIL — 4 / E-3
NO SCALE

DOCK FIXTURE MOUNTING DETAIL — 5 / E-3
NO SCALE

OVEN WIRING DIAGRAM — 6 / E-5
NO SCALE

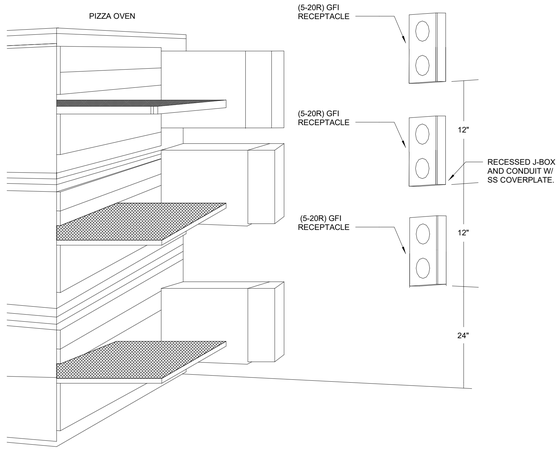


NOTE:
ALL OUTLETS SHALL BE OF THERMOPLASTIC (TPE). VERIFY WITH LOCAL JURISDICTION IF TPE BOX IS ACCEPTABLE. IF NOT, CONTACT ENGINEER TO SUBSTITUTE W/ MALLEABLE IRON METAL BOX, MANUFACTURER BY WOODHEAD OR EQUAL. WATERPROOF COVER.

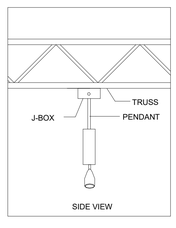


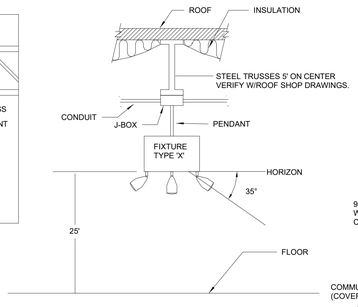
NOTE:
ALL OUTLETS SHALL BE OF THERMOPLASTIC (TPE).
VERIFY WITH LOCAL JURISDICTION IF TPE BOX IS ACCEPTABLE. IF NOT, CONTACT ENGINEER TO SUBSTITUTE W/ MALLEABLE IRON METAL BOX, MANUFACTURER BY ERICSON OR EQUAL.

MAIN SALES DROP CORD DETAIL — 7 / E-2
NO SCALE



TRIPLE STACK PIZZA OVEN CONNECTION DETAIL — 12 / E-6
SCALE: NONE

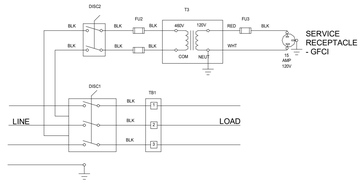




NOTES:

1. IF ANY CONFLICTS OCCUR WITH TRUSSES, COORDINATE FIXTURE RELOCATION WITH ARCHITECT/ENGINEER.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY FOR MOUNTING FIXTURE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT & WIRE BETWEEN LIGHT FIXTURE.
4. PROVIDE PENDANT AS NEEDED TO MAINTAIN THE MOUNTING HEIGHT AT 25'-0" A.F.F.
5. MOUNT FIXTURE W/ EMERGENCY HEADS PARALLEL TO EMERGENCY CORRIDOR.

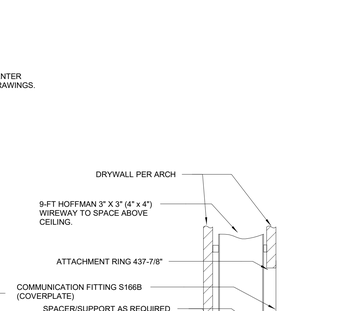
EMERGENCY LIGHTING MOUNTING DETAIL — 13 / E-3
NO SCALE



UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET
- UL - ROOFTOP A/C UNITS

AC FACTORY INSTALLED DISCONNECT AND CONVENIENCE OUTLET WIRING DIAGRAM

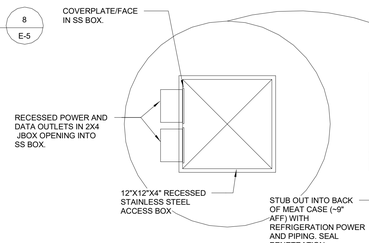
10 / E-2
NO SCALE



NOTE: THIS DETAIL IS TYPICAL FOR ALL ACCESS PENETRATIONS TO WIREWAY. HEIGHT OF PENETRATIONS ARE SPECIFIED ON PLAN. AN ADDITIONAL PENETRATION AT 8'-9" (IN CEILING SPACE) IS TYPICAL FOR ALL CHASES - NO COVERPLATE NEEDED FOR CEILING SPACE PENETRATION.

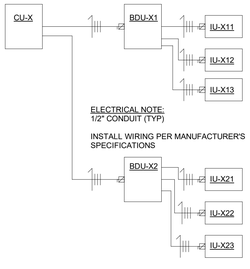
OPTICAL/EXAM ROOM WALL DUCT DETAIL — 15 / E-4
NO SCALE

FRESHLINE DROP CORD OUTLET — 8 / E-5
NO SCALE



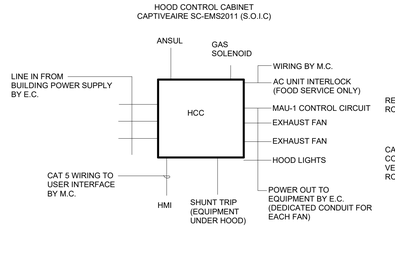
ENLARGED VIEW
NO SCALE

HOT CASE DETAIL — 11 / E-5
NO SCALE

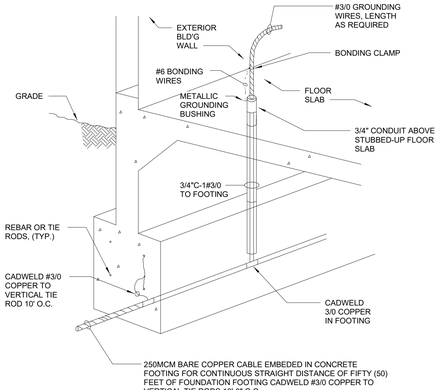


TYPICAL WELLNESS CENTER/OFFICE MULTISPLIT ELECTRICAL DIAGRAM

14 / E-2
NO SCALE



ROTISSERIE/FOOD SERVICE EXHAUST FAN WIRING DIAGRAM — 16 / E-5
SCALE: NTS



UFER GROUNDING DETAIL — 17 / E-1
NO SCALE

STATE OF MISSOURI
JOEL G. MORTENSON
NUMBER PE-2024000146
PROFESSIONAL ENGINEER
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

PROJECT STATUS: ISSUED FOR CONSTRUCTION

△	DATE	DESCRIPTION
	11/26/25	ISSUED FOR OA
	12/17/25	ISSUED FOR PERMIT

© T.E., Inc.
This original and unpublished Design and plan is the property of T.E., Inc. and shall not be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
8180 N. INTERSHIRE DRIVE
SUITE 230
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE

___

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

ELECTRICAL DETAILS

E-8

12/22/2025 5:58:23 PM C:\Users\mwidjaja\Documents_346_E_CENTRAL 2023_mwidjaja5H9M6.rvt

BRANCH PANEL: H1

SUPPLY FROM: MDP | VOLTS: 480/277 Wye | A.I.C. RATING: 65K SERIES MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
LIGHTING | WIRES: 4 | MAINS RATING: 225 A
PANEL TYPE: SQ-D NF-PL CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	---UNUSABLE SPACE---	--	1	--	2.28					1	20 A	PARKING LIGHTING **	2
3	MEAT COOLER LIGHTING ***	20 A	1			0.83	3.74			1	20 A	PARKING LIGHTING **	4
5	---UNUSABLE SPACE---	--	1					--	1.79	1	20 A	PARKING LIGHTING (SHARED DRIV...	6
7	DELI/SUSHI PREP LIGHTING ***	20 A	1	2.02	0					1	20 A	SPARE**	8
9	---UNUSABLE SPACE---	--	1			--	0			1	20 A	SPARE**	10
11	ROTISSERIE/ROTISSERIE PREP...	20 A	1					0.83	0	1	20 A	SPARE	12
13	---UNUSABLE SPACE---	--	1	--	0					1	20 A	SPARE	14
15	MEAT PREP LIGHTING ***	20 A	1			0.83	0			1	20 A	SPARE	16
17	---UNUSABLE SPACE---	--	1					--	1.54	1	20 A	MSB,PLTFRM,RR&DEMO RM LIT ***	18
19	POS COOLER LIGHTING ***	20 A	1	0.36	--					1	--	---UNUSABLE SPACE---	20
21	---UNUSABLE SPACE---	--	1			--	2.48			1	20 A	BAKERY LIGHTING ***	22
23	POS FREEZER #1 & #2 LIGHTING ***	20 A	1					0.72	--	1	--	---UNUSABLE SPACE---	24
25	---UNUSABLE SPACE---	--	1	--	1.5					1	20 A	FRESHLINE DISPLAY **	26
27	DIARY COOLER LIGHTING ***	20 A	1			1.44	1.07			1	20 A	MEAT ISLAND LIGHTING **	28
29	---UNUSABLE SPACE---	--	1					--	0.61	1	20 A	BAKERY COOLER/FRZR LIGHTING ***	30
31	PRODUCE COOLER LIGHTING ***	20 A	1	1.69	--					1	--	---UNUSABLE SPACE---	32
33	SPACE	--	1			--	1.08			1	20 A	SIGN LIGHTING **	34
35	SPACE	--	1					--	0.81	1	20 A	EXTERIOR LIGHTING **	36
37	SPACE	--	1	--	2.06					1	20 A	MECHANICAL ROOM LIGHTING * ***	38
39	EMERGENCY LIGHTING *	20 A	1			0.73	--			1	--	---UNUSABLE SPACE---	40
41	SALES LIGHTING	20 A	1					1.3	2.6	1	20 A	RECEIVING AREA LIGHTING	42
43	SALES LIGHTING	20 A	1	0.52	--					1	--	SPACE	44
45	SALES LIGHTING	20 A	1			0.52	--			1	--	SPACE	46
47	SALES LIGHTING	20 A	1					2.47	--	1	--	SPACE	48
49	SALES LIGHTING	20 A	1	2.73	0					1	20 A	SPARE	50
51	SALES LIGHTING	20 A	1			2.99	0			1	20 A	SPARE	52
53	SALES LIGHTING	20 A	1					2.6	0	1	20 A	SPARE	54
55	SALES LIGHTING	20 A	1	2.47	3.77								56
57	SALES LIGHTING	20 A	1			2.73	3.77			3	25 A	F.L BATTERY CHARGER	58
59	SALES LIGHTING	20 A	1					2.6	3.77				60
61	SALES LIGHTING	20 A	1	2.6	3.77								62
63	SALES LIGHTING	20 A	1			2.73	3.77			3	25 A	F.L BATTERY CHARGER	64
65	SALES LIGHTING	20 A	1					2.73	3.77				66
67	SPACE	--	1	--	1								68
69	SPACE	--	1			--	1			3	15 A	ENERGY MONITORING	70
71	SPACE	--	1					--	1				72
	TOTAL LOAD:			24.6 kVA		26.2 kVA		27.4 kVA					
	TOTAL AMPS:			89 A		96 A		100 A					

PANEL TOTALS
TOTAL CONN. LOAD: 78.2 kVA
TOTAL EST. DEMAND: 91.4 kVA
TOTAL CONN. CURRENT: 94 A
TOTAL EST. DEMAND CURRENT: 110 A

NOTES: PROVIDE LABEL PER NEC 110.22
* PROVIDE LOCK-IN DEVICE & MARK "LEAVE ON".
** POWER LINK BREAKER. SEE LIGHTING CONTROL SCHEDULE FOR CONTROL SEQUENCE.
*** POWERLINK EMERGENCY BREAKER (G3EL). SEE LIGHTING CONTROL SCHEDULE FOR CONTROL SEQUENCE.

BRANCH PANEL: H2

SUPPLY FROM: MDP | VOLTS: 480/277 Wye | A.I.C. RATING: 14K MIN
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
LIGHTING | WIRES: 4 | MAINS RATING: 225 A
PANEL TYPE: SQ-D NF-PL CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	SALES LIGHTING	20 A	1	2.86	1.8					1	20 A	FOOD SERVICE LIGHTING ***	2
3	SALES LIGHTING	20 A	1			2.86	--			1	--	--- UNUSABLE SPACE ---	4
5	SALES LIGHTING	20 A	1					2.73	2.43	1	20 A	OFFICE LIGHTING ***	6
7	SALES LIGHTING	20 A	1	2.6	--					1	--	--- UNUSABLE SPACE ---	8
9	SALES LIGHTING	20 A	1			2.86	1.54			1	20 A	PHARMACY & OPTICAL LIGHTING *...	10
11	SALES LIGHTING	20 A	1					2.86	--	1	--	--- UNUSABLE SPACE ---	12
13	SALES LIGHTING	20 A	1	2.47	2.78					1	20 A	PARKING LIGHTING **	14
15	SALES LIGHTING	20 A	1			2.73	2.78			1	20 A	PARKING LIGHTING **	16
17	SALES LIGHTING	20 A	1					2.86	2.67	1	20 A	PARKING LIGHTING **	18
19	SALES LIGHTING	20 A	1	2.6	3.01					1	20 A	PARKING LIGHTING **	20
21	SALES LIGHTING	20 A	1			2.73	0			1	20 A	SPARE	22
23	SALES LIGHTING	20 A	1					2.47	0	1	20 A	SPARE **	24
25	SPARE	20 A	1	0	0.5					1	20 A	CANOPY LIGHTING **	26
27	SPARE	20 A	1			0	1.88			1	20 A	CANOPY LIGHTING **	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31				1	0.66					1	20 A	SIGN LIGHTING **	32
33	ENERGY MONITORING	15 A	3			1	1.14			1	20 A	EXTERIOR LIGHTING **	34
35								1	--	1	--	SPACE	36
37	TIRE SALES LIGHTING	20 A	1	2.01	--					1	--	SPACE	38
39	TIRE INSTALL LIGHTING	20 A	1			2.48	--			1	--	SPACE	40
41	EMERGENCY LIGHTING *	20 A	1					0.89	1.36	1	20 A	BREAK ROOM LIGHTING	42
	TOTAL LOAD:			22.3 kVA		22 kVA		19.3 kVA					
	TOTAL AMPS:			82 A		81 A		70 A					

PANEL TOTALS
TOTAL CONN. LOAD: 63.6 kVA
TOTAL EST. DEMAND: 78.7 kVA
TOTAL CONN. CURRENT: 76 A
TOTAL EST. DEMAND CURRENT: 95 A

NOTES:
* PROVIDE LOCK IN DEVICE & MARK "LEAVE ON".
** POWERLINK BREAKER. SEE LIGHTING CONTROL SCHEDULE FOR CONTROL SEQUENCE
*** POWERLINK EMERGENCY (G3EL). SEE LIGHTING CONTROL SCHEDULE FOR CONTROL SEQUENCE.

BRANCH PANEL: H3

SUPPLY FROM: MDP | VOLTS: 480/277 Wye | A.I.C. RATING: 65K SERIES MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
MISC | WIRES: 4 | MAINS RATING: 400 A
PANEL TYPE: SQ-D NF CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1				5.83	11.47								2
3	GAS COOLER A	25 A	3			5.83	11.47			3	60 A	460V FAN CONTROL PANEL	4
5								5.83	11.47				6
7				5.83	--					1	--	SPACE	8
9	GAS COOLER B	25 A	3			5.83	--			1	--	SPACE	10
11								5.83	--	1	--	SPACE	12
13				11.34	11.34								14
15	MEAT/ROTISSERIE PREP AHU REHEAT	50 A	3			11.34	11.34			3	50 A	DELI/SUSHI PREP AHU HEAT	16
17								11.34	11.34				18
19				4.43	4.43								20
21	MEAT/ROTISSERIE PREP AHU FAN	20 A	3			4.43	4.43			3	20 A	DELI/SUSHI PREP AHU FAN	22
23								4.43	4.43				24
25				2.99	0.72								26
27	POS FRZ AIR CURTAIN	20 A	3			2.99	0.72			3	15 A	DELI/SUSHI PREP AHU PUMP SKID POWER	28
29								2.99	0.72				30
31				2.99	1.7								32
33	POZ FRZ AIR CURTAIN	20 A	3			2.99	1.7			3	15 A	IRRIGATION PUMP	34
35								2.99	1.7				36
37				2.99	1.7								38
39	BAK FREEZER AIR DOOR	20 A	3			2.99	1.7			3	15 A	WATER BOOSTER PUMP	40
41								2.99	1.7				42
	TOTAL LOAD:			67.8 kVA		67.8 kVA		67.8 kVA					
	TOTAL AMPS:			245 A		245 A		245 A					

PANEL TOTALS
TOTAL CONN. LOAD: 203.3 kVA
TOTAL EST. DEMAND: 203.3 kVA
TOTAL CONN. CURRENT: 245 A
TOTAL EST. DEMAND CURRENT: 245 A

NOTES: PROVIDE LABEL PER NEC 110.22
E.C. SHALLL VERIFY ALL BREAKER SIZES WITH FREEZER/COOLER CONTRACTOR BEFORE INSTALLATION.

PANEL SCHEDULE NOTES:

PROVIDE BREAKER HANDLE TIES AS REQUIRED TO COMPLY WITH NEC, ARTICLE 210.4. HANDLE TIES TO BE INSTALLED FOR BREAKERS ON CIRCUITS SHARING ONE NEUTRAL CONDUCTOR.

BRANCH PANEL: H4

SUPPLY FROM: MDP | VOLTS: 480/277 Wye | A.I.C. RATING: 65K SERIES MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
MISC | WIRES: 4 | MAINS RATING: 400 A
PANEL TYPE: SQ-D NF CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1				7.16	2.8								2
3	CARDBOARD BALER	60 A	3			7.16	2.8			3	15 A	EPJ BATTERY CHARGER	4
5								7.16	2.8				6
7				7.16	--					1	--	SPACE	8
9	PLASTIC BALER	60 A	3			7.16	--			1	--	SPACE	10
11								7.16	--	1	--	SPACE	12
13				3.77	--					1	--	SPACE	14
15	F.L BATTERY CHARGER	25 A	3			3.77	--			1	--	SPACE	16
17								3.77	--	1	--	SPACE	18
19				3.77	3.88								20
21	F.L BATTERY CHARGER	25 A	3			3.77	3.88			3	30 A	COMPACTOR	22
23								3.77	3.88				24
25				3.77	3.88								26
27	F.L BATTERY CHARGER	25 A	3			3.77	3.88			3	30 A	COMPACTOR	28
29								3.77	3.88				30
31				3.77	3.05								32
33	F.L BATTERY CHARGER	25 A	3			3.77	3.05			3	15 A	RIDE-ON SCRUBBER CHARGER	34
35								3.77	3.05				36
37				3.77	--					1	--	SPACE	38
39	F.L BATTERY CHARGER	25 A	3			3.77	--			1	--	SPACE	40
41								3.77	--	1	--	SPACE	42
	TOTAL LOAD:			46.8 kVA		46.8 kVA		46.8 kVA					
	TOTAL AMPS:			169 A		169 A		169 A					

PANEL TOTALS
TOTAL CONN. LOAD: 140.3 kVA
TOTAL EST. DEMAND: 140.3 kVA
TOTAL CONN. CURRENT: 169 A
TOTAL EST. DEMAND CURRENT: 169 A

NOTES: PROVIDE LABEL PER NEC 110.22

BRANCH PANEL: H5

SUPPLY FROM: MDP | VOLTS: 480/277 Wye | A.I.C. RATING: 22K SERIES MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
MISC | WIRES: 4 | MAINS RATING: 100 A
PANEL TYPE:

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1				12.08	6.3								2
3	TRANSFORMER T3 (45-KVA) / PANEL C	70 A	3			11.12	6.3			3	30 A	WASHWARE LINE	4
5								7.98	6.3				6
7	SPACE	--	1	--	--					1	--	SPACE	8
9	SPACE	--	1			--	--			1	--	SPACE	10
11	SPACE	--	1					--	--	1	--	SPACE	12
13	SPACE	--	1	--	--					1	--	SPACE	14
15	SPACE	--	1			--	--			1	--	SPACE	16
17	SPACE	--	1					--	--	1	--	SPACE	18
19	SPACE	--	1	--	--					1	--	SPACE	20
	TOTAL LOAD:			18.4 kVA		17.4 kVA		14.3 kVA					
	TOTAL AMPS:			68 A		65 A		52 A					

PANEL TOTALS
TOTAL CONN. LOAD: 50.1 kVA
TOTAL EST. DEMAND: 48.3 kVA
TOTAL CONN. CURRENT: 60 A
TOTAL EST. DEMAND CURRENT: 58 A

NOTES:

BRANCH PANEL: H6

SUPPLY FROM: MDP | VOLTS: 480/277 Wye | A.I.C. RATING: 65K FULLY MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
HVAC | WIRES: 4 | MAINS RATING: 800 A
PANEL TYPE: SQ-D NF CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1				16.67	--					1	--	SPACE	2
3	AC-9	90 A	3			16.67	--			1	--	SPACE	4
5								16.67	--	1	--	SPACE	6
7				16.67	--					1	--	SPACE	8
9	AC-12	90 A	3			16.67	--			1	--	SPACE	10
11								16.67	--	1	--	SPACE	12
13	SPACE	--	1	--	16.67								14
15	SPACE	--	1			--	16.67			3	90 A	AC-11	16
17	SPACE	--	1					--	16.67				18
19				3.21	--					1	--	SPACE	20
21	SKEWER CLEANER	15 A	3			3.21	--			1	--	SPACE	22
23								3.21	--	1	--	SPACE	24
25				3.21	16.67								26
27	POWERSOAK SINK	15 A	3			3.21	16.67			3	90 A	AC-15	28
29								3.21	16.67				30
31				8.34	9.86								32
33	SUSHI WASHWARE LINE	40 A	3			8.34	9.86			3	50 A	RACK WASHER	34
35								8.34	9.86				36
37				5.58	11.83								38
39	MAU-28	30 A	3			5.58	11.83			3	60 A	AD-3	40
41								5.58	11.83				42
43				10.36	0					1	20 A	SPARE	44
45	MAU-37	50 A	3			10.36	0			1	20 A	SPARE	46
47								10.36	0	1	20 A	SPARE	48
49	SPACE	--	1	--	0					1	20 A	SPARE	50
51	SPACE	--	1			--	0			1	20 A	SPARE	52
53	SPACE	--	1					--	0	1	20 A	SPARE	54
	TOTAL LOAD:			119.1 kVA		119.1 kVA		119.1 kVA					
	TOTAL AMPS:			430 A		430 A		430 A					

PANEL TOTALS
TOTAL CONN. LOAD: 357.2 kVA
TOTAL EST. DEMAND: 346.4 kVA
TOTAL CONN. CURRENT: 430 A
TOTAL EST. DEMAND CURRENT: 417 A

NOTES:

BRANCH PANEL: H7

SUPPLY FROM: MDP | VOLTS: 480/277 Wye | A.I.C. RATING: 22K MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
WIRES: 4 | MAINS RATING: 800 A
PANEL TYPE: SQ-D NF CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	SPACE	--	1	--	--					1	--	SPACE	2
3	SPACE	--	1			--	--			1	--	SPACE	4
5	SPACE	--	1					--	--	1	--	SPACE	6
7				16.67	--					1	--	SPACE	8
9	AC-8	90 A	3			16.67	--			1	--	SPACE	10
11								16.67	--	1	--	SPACE	12
13				16.67	16.67								14
15	AC-7	90 A	3			16.67	16.67			3	90 A	AC-13	16
17								16.67	16.67				18
19				11.68	7.79								20
21	AC-3	60 A	3			11.68	7.79			3	40 A	AD-1	22
23								11.68	7.79				24
25				16.67	7.79								26
27	AC-14	90 A	3			16.67	7.79			3	40 A	AD-2	28
29								16.67	7.79				30
31				16.67	--					1	--	SPACE	32
33	AC-10	90 A	3			16.67	--			1	--	SPACE	34
35								16.67	--	1	--	SPACE	36
37	SPACE	--	1	--	5.04								38
39	SPACE	--	1			--	5.04			3	25 A	AC-35	40
41	SPACE	--	1					--	5.04				42
43				3.72	2								44
45	AC-32	25 A	3			3.72	2			3	30 A	CANOPY HEAT TAPE	46
47								3.72	2				48
49	SPACE	--	1	--	1								50
51	SPACE	--	1			--	1			3	15 A	ENERGY MONITORING	52
53	SPACE	--	1					--	1				54
	TOTAL LOAD:			122.4 kVA		122.4 kVA		122.4 kVA					
	TOTAL AMPS:			442 A		442 A		442 A					

PANEL TOTALS
TOTAL CONN. LOAD: 367.1 kVA
TOTAL EST. DEMAND: 373.4 kVA
TOTAL CONN. CURRENT: 442 A
TOTAL EST. DEMAND CURRENT: 449 A

NOTES:

BRANCH PANEL: P1A

SUPPLY FROM: SD-2 | VOLTS: 208/120 Wye | A.I.C. RATING: 22K MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
RECEPTACLE | WIRES: 4 | MAINS RATING: 225 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	CONVENIENCE OUTLET (M13)	20 A	1	0.18	0.18					2	20 A	SALES RECEPTACLE	2
3	CONVENIENCE OUTLET (M13)	20 A	1			0.18	0.18						4
5	CONVENIENCE OUTLET (M13)	20 A	1					0.18	0.18	2	20 A	SALES RECEPTACLE	6
7	CONVENIENCE OUTLET (M13)	20 A	1	0.18	0.18								8
9	CONVENIENCE OUTLET (M13)	20 A	1			0.18	0.18			2	20 A	SALES RECEPTACLE	10
11	CONVENIENCE OUTLET (M13)	20 A	1					0.18	0.18				12
13	CONVENIENCE OUTLET (M13)	20 A	1	0.18	0.18					2	20 A	SALES RECEPTACLE	14
15	CONVENIENCE OUTLET (M13)	20 A	1			0.18	0.18						16
17	CONVENIENCE OUTLET (M13)	20 A	1					0.18	0.18	2	20 A	SALES RECEPTACLE	18
19	CONVENIENCE OUTLET (M13)	20 A	1	0.18	0.18								20
21	CONVENIENCE OUTLET (M13)	20 A	1			0.18	0.18			2	20 A	SALES RECEPTACLE	22
23	CONVENIENCE OUTLET (M13)	20 A	1					0.18	0.18				24
25	CONVENIENCE OUTLET (M13)	20 A	1	0.18	0.18					2	20 A	SALES RECEPTACLE	26
27	CONVENIENCE OUTLET (M13)	20 A	1			0.18	0.18						28
29	CONVENIENCE OUTLET (M13)	20 A	1					0.18	0.18	2	20 A	SALES RECEPTACLE	30
31	CONVENIENCE OUTLET (M13)	20 A	1	0.18	0.18								32
33	SPARE	20 A	1			0	0.18			2	20 A	SALES RECEPTACLE	34
35	SPARE	20 A	1					0	0.18				36
37	SPARE	20 A	1	0	0.18					2	20 A	SALES RECEPTACLE	38
39	DEMO ROOM RECEPT	20 A	1			0.9	0.18						40
41	DEMO ROOM RECEPT	20 A	1					0.54	0.18	1	20 A	SALES RECEPTACLE	42
43	SEAFOOD ROAD SHOW	20 A	1	0.18	0.18					1	20 A	SALES RECEPTACLE	44
45	SALES RECEPTACLE	20 A	1			0.36	0.18			1	20 A	SALES RECEPTACLE	46
47	SALES RECEPTACLE	20 A	1					0.36	0.18	1	20 A	SALES RECEPTACLE	48
49	SPACE	--	1	--	0.18					1	20 A	SALES RECEPTACLE	50
51	SPACE	--	1			--	0.18			1	20 A	SALES RECEPTACLE	52
53	SPACE	--	1					--	0.18	1	20 A	SALES RECEPTACLE	54
55	SALES RECEPTACLE	20 A	1	0.18	0.54					1	20 A	LIGHT POLE CAMERA	56
57	SALES RECEPTACLE	20 A	1			0.18	0.18			1	20 A	SALES RECEPTACLE	58
59	SALES RECEPTACLE	20 A	1					0.18	0.18	1	20 A	SALES RECEPTACLE	60
61	SALES RECEPTACLE	20 A	1	0.18	0.18					1	20 A	SALES RECEPTACLE	62
63	SPACE	--	1			--	0.18			1	20 A	SALES RECEPTACLE	64
65	SPACE	--	1					--	0.18	1	20 A	SALES RECEPTACLE	66
67	SPACE	--	1	--	0.36					1	20 A	RECEPTACLE, EF-33	68
69	SALES RECEPTACLE	20 A	2			0.18	1.86			1	20 A	CLEANSTAR TANK **	70
71								0.18	0.38	1	20 A	FLOOR SCRUBBER RECEPTACLE	72
73	SALES RECEPTACLE	20 A	2	0.18	0.36					1	20 A	RTV RECEPTACLES	74
75						0.18	0.36			1	20 A	RTV RECEPTACLES	76
77	CHEESE CASE	25 A	2					1.35	1	1	20 A	DRINKING FOUNTAIN *	78
79				1.35	0.74					1	20 A	RECEPTACLE, EF-4	80
81	CHEESE CASE	25 A	2			1.35	0.72			1	20 A	DOOR BUZZER & RECEPT	82
83								1.35	1.14	1	20 A	LIGHT POLE CAMERA	84
	TOTAL LOAD:			7 kVA		9 kVA		9.4 kVA					
	TOTAL AMPS:			58 A		77 A		81 A					

PANEL TOTALS
TOTAL CONN. LOAD: 25.3 kVA
TOTAL EST. DEMAND: 22.0 kVA
TOTAL CONN. CURRENT: 70 A
TOTAL EST. DEMAND CURRENT: 61 A

NOTES:
* PROVIDE 6mA GFI BREAKER
** PROVIDE 30mA GFI BREAKER

BRANCH PANEL: P1B

SUPPLY FROM: SD-2 | VOLTS: 208/120 Wye | A.I.C. RATING: 22K SERIES MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
MISC | WIRES: 4 | MAINS RATING: 100 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	DOCK LOCK SYSTEM	20 A	1	0.96	1.5					2	20 A	FAN HEATER	2
3	DOCK LOCK SYSTEM	20 A	1			0.72	1.5						4
5	EF-24, TF-21	20 A	1					0.5	1.18	1	20 A	TF-27	6
7	CF 5 TO 13	20 A	1	0.36	0.48					1	25 A	RH-11,RH-12,RH-13	8
9	FAN HEATER	20 A	1			1.5	0.25			1	20 A	COMPACTOR CONTROL POWER	10
11	FAN HEATER	20 A	1					1.5	--	1	--	SPACE	12
13	SPARE	20 A	1	0	--					1	--	SPACE	14
15	SPARE	20 A	1			0	--			1	--	SPACE	16
17	SPARE	20 A	1					0	--	1	--	SPACE	18
19	SPARE	20 A	1	0	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
	TOTAL LOAD:			3.3 kVA		3.6 kVA		3.2 kVA					
	TOTAL AMPS:			28 A		30 A		27 A					

PANEL TOTALS
TOTAL CONN. LOAD: 10.1 kVA
TOTAL EST. DEMAND: 10.1 kVA
TOTAL CONN. CURRENT: 28 A
TOTAL EST. DEMAND CURRENT: 28 A

NOTES:

BRANCH PANEL: P2A

SUPPLY FROM: SD-1 | VOLTS: 208/120 Wye | A.I.C. RATING: 22K MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
RECEPTACLE | WIRES: 4 | MAINS RATING: 225 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	CASH REGISTER	20 A	1	0.54	0.54					1	20 A	CASH REGISTER	2
3	CASH REGISTER	20 A	1			0.54	0.54			1	20 A	CASH REGISTER	4
5	MICROWAVE RECEPTACLE	20 A	1					0.18	1.14	1	20 A	LIGHT POLE CAMERA	6
7	MICROWAVE RECEPTACLE	20 A	1	0.18	0.18					1	20 A	LOCKER ROOM GARBAGE DISPOSAL	8
9	MICROWAVE RECEPTACLE	20 A	1			0.18	0.47			1	20 A	QUIET ROOM RECEPTACLE	10
11	VENDING MACHINE *	20 A	1					1	0.36	1	20 A	PHARMACY RECEPTACLE	12
13	VENDING MACHINE *	20 A	1	1	0.9					1	20 A	PHARMACY RECEPTACLE	14
15	VENDING MACHINE *	20 A	1			1	0.18			1	20 A	PHARMACY RECEPTACLE	16
17	LOCKER ROOM RECEPTACLE	20 A	1					0.54	0.36	1	20 A	ROOF RECEPTACLES	18
19	FUEL FACILITY RECEPTACLE	20 A	1	0.36	0.72					1	20 A	PHARMACY RECEPTACLE	20
21	FUEL FACILITY RECEPTACLE	20 A	1			0.68	0			1	20 A	SPARE	22
23	SALES RECEPTACLE	20 A	1					0.36	0.36	1	20 A	LOCKER ROOM RECEPTACLE	24
25	SALES RECEPTACLE	20 A	1	0.36	0.36					1	20 A	EDP ROOM RECEP. iPAD CHARGERS	26
27	SALES RECEPTACLE	20 A	1			0.36	1			1	20 A	DRINKING FOUNDTAIN *	28
29	OWNER EQUIPMENT RECEPT *	20 A	1					1	0.5	1	20 A	PNEUMATIC TUBING	30
31	OWNER EQUIPMENT RECEPT *	20 A	1	1	0.5					1	20 A	PNEUMATIC TUBING	32
33	VENDING MACHINE *	20 A	1			1	0.5			1	20 A	PNEUMATIC TUBING	34
35	VENDING MACHINE *	20 A	1					1	0.5	1	20 A	PNEUMATIC TUBING	36
37	VENDING MACHINE *	20 A	1	1	0.5					1	20 A	PNEUMATIC TUBING	38
39	VENDING MACHINE *	20 A	1			1	--			1	--	SPACE	40
41	VENDING MACHINE *	20 A	1					1	0.36	1	20 A	MPU RECEPTACLE	42
	TOTAL LOAD:			19.4 kVA		16.2 kVA		15.4 kVA					
	TOTAL AMPS:			162 A		136 A		128 A					

PANEL TOTALS
TOTAL CONN. LOAD: 51.0 kVA
TOTAL EST. DEMAND: 42.5 kVA
TOTAL CONN. CURRENT: 142 A
TOTAL EST. DEMAND CURRENT: 118 A

NOTES:
* PROVIDE GFI BREAKER

BRANCH PANEL: P2B

SUPPLY FROM: P2A | VOLTS: 208/120 Wye | A.I.C. RATING: 22K MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
RECEPTACLE | WIRES: 4 | MAINS RATING: 225 A
PANEL TYPE: SQ-D NQOD-PL CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
43	OFFICE RECEPTACLE **	20 A	1	0.72	0.18					1	20 A	SALES RECEPTACLE	44
45	OFFICE RECEPTACLE **	20 A	1			0.72	0.18			1	20 A	SALES RECEPTACLE	46
47	OFFICE RECEPTACLE **	20 A	1					0.54	0.18	1	20 A	SALES RECEPTACLE	48
49	OFFICE RECEPTACLE **	20 A	1	0.72	1					1	20 A	CASE SECURITY POWER *	50
51	OFFICE RECEPTACLE **	20 A	1			0.54	1.47			1	20 A	R.R. RECEPTACLES	52
53	MANAGER OFFICE RECEPTACLE **	20 A	1					0.36	1.08	1	20 A	R.R. RECEPTACLES	54
55	SALES RECEPTACLE	20 A	1	0.18	2					1	30 A	BOINGO DAS SYSTEM	56
57	SALES RECEPTACLE	20 A	1			0.18	0.36			1	20 A	JEWELRY CASE *	58
59	SALES RECEPTACLE	20 A	1					0.18	0.36	1	20 A	COLLECTABLE CASE *	60
61	SALES RECEPTACLE	20 A	1	0.18	0					1	20 A	SPARE	62
63	SALES RECEPTACLE	20 A	1			0.36	0			1	20 A	SPARE	64
65	SALES RECEPTACLE	20 A	1					0.36	0	1	20 A	SPARE	66
67	LOCKER ROOM RECEPT	20 A	1	0.72	--					1	--	SPACE	68
69	MANAGER PODIUM RECEPTACLE	20 A	1			0.36	--			1	--	SPACE	70
71	SPARE	20 A	1					0	--	1	--	SPACE	72
73	OPTICAL EXAM RECEPT	20 A	1	1.08	1.44					1	20 A	OPTICAL EXAM RECEPT	74
75	OPTICAL EXAM RECEPT	20 A	1			1.08	0.54			1	20 A	OPTICAL EXAM RECEPT	76
77	OPTICAL RECEPT	20 A	1					0.9	1.26	1	20 A	OPTICAL RECEPT	78
79	OPTICAL KIOSK	20 A	1	1.2	1.8					1	20 A	OPTICAL PLUGMOLD	80
81	OPTICAL KIOSK	20 A	1			1.5	1.5			1	20 A	FRAME WARMER	82
83	FRAME WARMER	20 A	1					1.5	0	1	20 A	SPARE	84
	TOTAL LOAD:			11.2 kVA		8.8 kVA		6.7 kVA					
	TOTAL AMPS:			96 A		76 A		56 A					

PANEL TOTALS
TOTAL CONN. LOAD: 26.7 kVA
TOTAL EST. DEMAND: 21.7 kVA
TOTAL CONN. CURRENT: 74 A
TOTAL EST. DEMAND CURRENT: 60 A

NOTES:
* PROVIDE LOCK IN DEVICE AND MARK "LEAVE ON".
** POWERLINK BREAKER. TIME ON AT 6:00 AM - TIME OFF AT 11:00 PM OR AS DIRECTED BY WAREHOUSE MANAGER

BRANCH PANEL: P3

SUPPLY FROM: SD-3 | VOLTS: 208/120 Wye | A.I.C. RATING: 22K SERIES MIN.
MOUNTING: IPC | PHASES: 3 | MAINS TYPE: MLO
MISC | WIRES: 4 | MAINS RATING: 400 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	DOOR HEATERS FREEZER #2 (M5)	20 A	1	1.9	1.2					1	20 A	BAKERY FZER DOOR HEATER (M2)	2
3	DOOR HEATERS FREEZER #2 (M5)	20 A	1			1.9	1.2			1	20 A	BAKERY FZER DOOR HEATER (M2)	4
5	DOOR HEATERS FREEZER #2 (M5)	20 A	1					1.9	1.2	1	20 A	POS FZER DOOR HEATER #1 (M2)	6
7	DOOR HEATERS FREEZER #2 (M5)	20 A	1	1.9	1.3					1	20 A	DOOR HEATERS COOLER (M5)	8
9	DOOR HEATERS FREEZER #2 (M5)	20 A	1			1.9	0.2			1	20 A	THERMO SIMPLE	10
11	DOOR HEATERS FREEZER #2 (M5)	20 A	1					1.9	1.8	1	20 A	INPUT AND ALARM PANEL	12
13	DOOR HEATERS FREEZER #2 (M5)	20 A	1	1.9	0.2					1	20 A	THERMO SIMPLE	14
15	DOOR HEATERS FREEZER #2 (M5)	20 A	1			1.9	0.72			1	20 A	ROOF RECEPTACLE	16
17	DOOR HEATERS FREEZER #2 (M5)	20 A	1					1.9	0.2	1	20 A	THERMO SIMPLE	18
19	SPARE	20 A	1	0	0.2					1	20 A	THERMO SIMPLE	20
21	DOOR HEATERS FREEZER #1 (M5)	20 A	1			1.92	1			1	20 A	BMS-3	22
23	DOOR HEATERS FREEZER #1 (M5)	20 A	1					1.92	1.92	1	20 A	HEAT TAPE *	24
25	DOOR HEATERS FREEZER #1 (M5)	20 A	1	1.92	1.92					1	20 A	HEAT TAPE *	26
27	DOOR HEATERS FREEZER #1 (M5)	20 A	1			1.92	1.92			1	20 A	HEAT TAPE *	28
29	DOOR HEATERS FREEZER #1 (M5)	20 A	1					1.92	1.92	1	20 A	HEAT TAPE *	30
31	DOOR HEATERS FREEZER #1 (M5)	20 A	1	1.92	1.92					1	20 A	HEAT TAPE *	32
33	DOOR HEATERS FREEZER #1 (M5)	20 A	1			1.92	1.92			1	20 A	HEAT TAPE *	34
35	DOOR HEATERS FREEZER #1 (M5)	20 A	1					1.92	1.92	1	20 A	HEAT TAPE *	36
37	DOOR HEATERS FREEZER #1 (M5)	20 A	1	1.92	1.92					1	20 A	HEAT TAPE *	38
39	SPARE	20 A	1			0	1.92			1	20 A	HEAT TAPE *	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
43	DOOR HEATERS COOLER (M5)	20 A	1	1.3	0					1	20 A	SPARE	44
45	DOOR HEATERS COOLER (M5)	20 A	1			1.3	0			1	20 A	SPARE	46
47	DOOR HEATERS COOLER (M5)	20 A	1					1.3	0	1	20 A	SPARE	48
49	POS FZER DOOR HEATER #2 (M2)	20 A	1	1.2	0					1	20 A	SPARE	50
51	DOOR HEATERS COOLER (M5)	20 A	1			1.3	0			1	20 A	SPARE	52
53	DOOR HEATERS COOLER (M5)	20 A	1					1.3	0	1	20 A	SPARE	54
55	DOOR HEATERS COOLER (M5)	20 A	1	1.3	0					1	20 A	SPARE	56
57	DOOR HEATERS COOLER (M5)	20 A	1			1.3	0			1	20 A	SPARE	58
59	DOOR HEATERS COOLER (M5)	20 A	1					1.3	0	1	20 A	SPARE	60
61	SPARE	20 A	1	0	0					1	20 A	SPARE	62
63	S/D MEAT	20 A	1			0.3	0			1	20 A	SPARE	64
65	S/D DELI	20 A	1					1.2	--	1	--	SPACE	66
67	BAKERY CASES	20 A	1	0.96	--					1	--	SPACE	68
69	SPACE	--	1			--	--			1	--	SPACE	70
71	SPACE	--	1					--	--	1	--	SPACE	72
73	SPACE	--	1	--	--					1	--	SPACE	74
75	SPACE	--	1			--	--			1	--	SPACE	76
77	SPACE	--	1					--	--	1	--	SPACE	78
79	SPACE	--	1	--	--					1	--	SPACE	80
81	SPACE	--	1			--	--			1	--	SPACE	82
83	SPACE	--	1					--	--	1	--	SPACE	84
	TOTAL LOAD:			24.9 kVA		24.5 kVA		25.5 kVA					
	TOTAL AMPS:			208 A		205 A		213 A					

PANEL TOTALS
TOTAL CONN. LOAD: 74.9 kVA
TOTAL EST. DEMAND: 75.2 kVA
TOTAL CONN. CURRENT: 208 A
TOTAL EST. DEMAND CURRENT: 209 A

NOTES: E.C. SHALL VERIFY ALL BREAKER SIZES WITH FREEZER/COOLER CONTRACTOR BEFORE INSTALLATION.
* PROVIDE GROUND FAULT PROTECTION W/ 30mA TRIP LEVEL. PROVIDE LABEL PER NEC 110.22

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:57

PERMIT

STATE OF MISSOURI
JOEL G. MORTENSON
NUMBER PE-2024000146
PROFESSIONAL ENGINEER
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/17/25	ISSUED FOR PERMIT

© T.E., Inc.:
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

COSTCO WHOLESALE

NEW WAREHOUSE
LEE'S SUMMIT, MO
#___

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

PANEL SCHEDULES

E-9

C:\Users\mwidjaja\Documents_346_E_CENTRAL 2023_mwidjaja5H9M6.rvt
12/22/2025 5:55:54 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:57

BRANCH PANEL: P4A

SUPPLY FROM: SD-1 **VOLTS:** 208/120 Wye **A.I.C. RATING:** 10kA
MOUNTING: SURFACE **PHASES:** 3 **MAINS TYPE:** MLO
RECEPTACLE **WIRES:** 4 **MAINS RATING:** 400 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	TIRE MACHINE	20 A	1	2.14	1.36					1	20 A	LIFT MACHINE	2
3	TIRE MACHINE	20 A	1			0.98	0.72			1	20 A	COUNTER RECEPTACLE **	4
5	TIRE MACHINE	20 A	1					0.98	0.36	1	20 A	PLATFORM RECEPTACLE	6
7	LIFT MACHINE	20 A	1	0.98	0.41					1	20 A	EF-3, RECEPTACLE & LIGHT **	8
9	TIRE MACHINE	20 A	1			0.98	1.2			2	20 A	TWISTLOCK OUTLET	10
11	TIRE MACHINE	20 A	1					0.98	1.2				12
13	TIRE MACHINE	20 A	1	0.98	1.2					2	20 A	TWISTLOCK OUTLET	14
15	LIFT MACHINE	20 A	1			0.98	1.2						16
17	SPARE	20 A	1					0	1.2	2	20 A	TWISTLOCK OUTLET	18
19	EURO TIRE CHANGER	30 A	1	2.4	1.2								20
21	EURO TIRE CHANGER	30 A	1			2.4	1.2			2	20 A	TWISTLOCK OUTLET	22
23	EURO TIRE CHANGER	30 A	1					2.4	1.2				24
25	EURO TIRE CHANGER	30 A	1	2.4	1.2					2	20 A	TWISTLOCK OUTLET	26
27	EURO TIRE CHANGER	30 A	1			2.4	1.2						28
29	NITROGEN REEL RECEPTACLE	20 A	1					0.9	0.18	2	20 A	BATTERY CHARGER RECEPT	30
31	MAXX90 TIRE CHANGER	20 A	2	1.2	0.18								32
33						1.2	1.2			2	20 A	MAXX90 TIRE CHANGER	34
35	MAXX90 TIRE CHANGER	20 A	2					1.2	1.2				36
37				1.2	1.2					2	20 A	MAXX90 TIRE CHANGER	38
39	MAXX90 TIRE CHANGER	20 A	2			1.2	1.2						40
41								1.2	1.5	1	20 A	FAN HEATER	42

TOTAL LOAD: 34.7 kVA | 34.3 kVA | 29.8 kVA
TOTAL AMPS: 295 A | 291 A | 248 A

PANEL TOTALS
TOTAL CONN. LOAD: 98.7 kVA
TOTAL EST. DEMAND: 101.6 kVA
TOTAL CONN. CURRENT: 274 A
TOTAL EST. DEMAND CURRENT: 282 A

NOTES: PROVIDE GROUND FAULT INTERRUPTING CIRCUIT BREAKERS FOR ALL BREAKERS UNLESS OTHERWISE NOTED.
* PROVIDE LOCK IN DEVICE AND MARK "LEAVE ON".
** NON GFI BREAKER

BRANCH PANEL: P4B

SUPPLY FROM: P4A **VOLTS:** 208/120 Wye **A.I.C. RATING:** 10kA
MOUNTING: SURFACE **PHASES:** 3 **MAINS TYPE:** MLO
MISC **WIRES:** 4 **MAINS RATING:** 400 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
43	WH-5	20 A	1	0.5	3.86								44
45	RH-7,8,9,10 **	20 A	1			0.64	3.86			3	60 A	AIR COMPRESSOR **	46
47	PLUMBING HEAT TAPE *	20 A	1					1	3.86				48
49	DRY SPRINKLER COMPRESSOR * **	20 A	1	0	3.86								50
51	NITROGEN DISPENSER	20 A	1			0.5	3.86			3	60 A	AIR COMPRESSOR **	52
53	SPARE	20 A	1					0	3.86				54
55	SPARE	20 A	1	0	1.9					2	35 A	TRUCK LIFT **	56
57	SPARE	20 A	1			0	1.9						58
59	SPARE	20 A	1					0	1.9	2	35 A	TRUCK LIFT **	60
61	SPARE	20 A	1	0	1.9								62
63	SPARE	20 A	1			0	1.9			2	35 A	TRUCK LIFT **	64
65	SPARE	20 A	1					0	1.9				66
67	SPARE	20 A	1	0	1.9					2	35 A	TRUCK LIFT **	68
69	SPACE	--	1			--	1.9						70
71	SPACE	--	1					--	1.9	2	35 A	TRUCK LIFT **	72
73	SPACE	--	1	--	1.9								74
75	SPACE	--	1			--	0.83			2	20 A	CF-5	76
77	SPACE	--	1					--	0.83				78
79	SPACE	--	1	--	0.83					2	20 A	CF-6	80
81	SPACE	--	1			--	0.83						82
83	SPACE	--	1					--	0	1	20 A	SPARE	84

TOTAL LOAD: 16.7 kVA | 16.2 kVA | 15.3 kVA
TOTAL AMPS: 140 A | 136 A | 127 A

PANEL TOTALS
TOTAL CONN. LOAD: 48.1 kVA
TOTAL EST. DEMAND: 51.0 kVA
TOTAL CONN. CURRENT: 134 A
TOTAL EST. DEMAND CURRENT: 142 A

NOTES:

BRANCH PANEL: P5

SUPPLY FROM: SD-3 **VOLTS:** 208/120 Wye **A.I.C. RATING:** 22K SERIES MIN.
MOUNTING: IPC **PHASES:** 3 **MAINS TYPE:** MLO
MISC **WIRES:** 4 **MAINS RATING:** 400 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	DELI ISLAND FANS	20 A	1	1.56	11.43					2	125 A	230 V FAN CONTROL PANEL	2
3	DELI ISLAND FANS	20 A	1			0.55	11.43						4
5	DELI ISLAND FANS	20 A	1					0.3	0	1	20 A	SPARE	6
7	MEAT ISLAND FANS	20 A	1	0.55	1					1	20 A	DELI WINDOW HEATER (M18)	8
9	MEAT ISLAND FANS	20 A	1			0.3	1			1	20 A	CHICKEN WINDOW HEATER (M18)	10
11	WH-1 + 1 PUMP	20 A	1					0.5	1	1	20 A	DISH PREP WINDOW HEATER (M18)	12
13	WH-2 + CIRC PUMPS	20 A	1	0.5	4.52								14
15	SPARE	20 A	1			0	4.52			3	50 A	PRODUCE COOLER AIR DOOR (M27)	16
17	SPARE	20 A	1					0	4.52				18
19	SPARE	20 A	1	0	0.18					1	20 A	PUMP SKID CONTROL	20
21	SPARE	20 A	1			0	0.18			1	20 A	PUMP SKID CONTROL	22
23	SPARE	20 A	1					0					24
25	SPARE	20 A	1	0	0.66								26
27	SPARE	20 A	1			0	0.66			3	20 A	ADVANCED GUTTER MELT	28
29	SPARE	20 A	1					0	0.66				30
31	SPACE	--	1	--	0.94								32
33	SPACE	--	1			--	0.94			3	20 A	JOCKEY PUMP	34
35	SPACE	--	1					--	0.94				36
37	AIR DOOR CONTROL & FAN	20 A	1	0.72	4.54								38
39	AIR DOOR CONTROL & FAN	20 A	1			0.72	4.54			3	50 A	DAIRY COOLER AIR DOOR (M27)	40
41	AIR DOOR CONTROL & FAN	20 A	1					0.72	4.54				42
43	UH-4	20 A	1	1	3								44
45	SPARE	20 A	1			0	3			3	40 A	AIR COMPRESSOR	46
47	SPARE	20 A	1					0	3				48
49	SPARE	20 A	1	0	1.44					1	20 A	AIR DRYER	50
51	SPARE	20 A	1			0	1			1	20 A	UH-3	52
53	SPARE	20 A	1					0	0	1	20 A	SPARE	54
55	SPARE	20 A	1	0	2.1								56
57							2.1			3	35 A	EF-31	58
59	SPARE	20 A	1					0	2.1				60
61					0.2					1	20 A	CONTROL CIRCUIT CONDENSER	62
63	SPARE	20 A	1			0	0.2			1	20 A	CONTROL CIRCUIT CONDENSER	64
65	SPARE	20 A	1					0	0.2	1	20 A	CONTROL CIRCUIT CONDENSER	66
67					0.2					1	20 A	CONTROL CIRCUIT CONDENSER	68
69	APANA WATER METER	20 A	1			0.18	0.18			1	20 A	ROLL IN BAKERY	70
71	SPARE	20 A	1					0	1.66	1	25 A	EF-2	72
73	AHU UV LIGHT	20 A	1	0.5	0.18					1	20 A	FIRE PUMP CONTROLLER *	74
75	AHU UV LIGHT	20 A	1			0.5	0.36			1	20 A	SPRINKLER SYSTEM *	76
77	MACHINE ROOM AC	15 A	2					0.5	0.36	1	20 A	SPRINKLER SYSTEM *	78
79				0.5	0.18					1	20 A	IRRIGATION CONTROL *	80
81	MACHINE ROOM AC	15 A	2			0.5	0.68			1	20 A	EF-30	82
83								0.5	0.72	1	20 A	MACHINE ROOM RECEPTACLES	84

TOTAL LOAD: 35.9 kVA | 33.5 kVA | 22.2 kVA
TOTAL AMPS: 314 A | 294 A | 185 A

PANEL TOTALS
TOTAL CONN. LOAD: 91.7 kVA
TOTAL EST. DEMAND: 93.9 kVA
TOTAL CONN. CURRENT: 254 A
TOTAL EST. DEMAND CURRENT: 261 A

NOTES: PROVIDE LABEL PER NEC 110.22
E.C. SHALL VERIFY ALL BREAKER SIZES WITH FREEZER/COOLER CONTRACTOR BEFORE INSTALLATION
* PROVIDE LOCK IN DEVICE AND MARK "LEAVE ON".

BRANCH PANEL: P6A

SUPPLY FROM: SD-2 **VOLTS:** 208/120 Wye **A.I.C. RATING:** 22K SERIES MIN.
MOUNTING: FLUSH **PHASES:** 3 **MAINS TYPE:** MLO
RECEPTACLE **WIRES:** 4 **MAINS RATING:** 400 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	WATER METER	20 A	1	0.18	1					1	20 A	MIXER	2
3	DC/RECEPTACLE	20 A	1			0.54	0			1	20 A	SPARE	4
5	SALAD INJECTOR	20 A	1					0.54	0	1	20 A	SPARE	6
7	DC/RECEPTACLE	20 A	1	0.72	0					1	20 A	SPARE	8
9	SPECIAL CASE ORDER	20 A	1			0.5	0			1	20 A	SPARE	10
11	PIE CASE **	25 A	2					1.35	0	1	20 A	SPARE	12
13				1.35	0					1	20 A	SPARE	14
15	PIE CASE **	25 A	2			1.35	0			1	20 A	SPARE	16
17								1.35	0	1	20 A	SPARE	18
19	MINI SCRUBBER **	20 A	1	0.75	0					1	20 A	SPARE	20
21	BAKERY DC RECEPT (SPICE TABLE)	20 A	1			1	0			1	20 A	SPARE	22
23	BAKERY FANS	20 A	1					0.18	0	1	20 A	SPARE	24
25	PIE STAMP MACHINE	20 A	2	1.04	0					1	20 A	SPARE	26
27						1.04	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	--					1	--	SPACE	38
39	SPARE	20 A	1			0	--			1	--	SPACE	40
41	SPARE	20 A	1					0	--	1	--	SPACE	42

TOTAL LOAD: 18.6 kVA | 19.1 kVA | 15.9 kVA
TOTAL AMPS: 159 A | 163 A | 133 A

PANEL TOTALS
TOTAL CONN. LOAD: 53.7 kVA
TOTAL EST. DEMAND: 39.3 kVA
TOTAL CONN. CURRENT: 149 A
TOTAL EST. DEMAND CURRENT: 109 A

NOTES: PROVIDE ISOLATED GROUND BUS FOR THIS PANEL. PROVIDE (2) 1"C.O. UP TO CEILING SPACE.
PROVIDE GFI BREAKER FOR ALL BREAKERS UNLESS OTEHRWISE NOTED. PROVIDE LABEL PER NEC 110.22
* PROVIDE LOCK OFF DEVICE.
** NON GFI BREAKER

BRANCH PANEL: P6B

SUPPLY FROM: P6A **VOLTS:** 208/120 Wye **A.I.C. RATING:** 22K SERIES MIN.
MOUNTING: FLUSH **PHASES:** 3 **MAINS TYPE:** MLO
MISC **WIRES:** 4 **MAINS RATING:** 400 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
43	KTF-14 **	20 A	1	1.07	1.73								44
45	KTF-15 **	20 A	1			1.07	1.73			3	30 A	MIXER 140QT * **	46
47	KEF-22 **	20 A	1					0	1.73				48
49	SPARE	20 A	1	0	1.73								50
51	KEF-8 **	20 A	1			1.07	1.73			3	30 A	MIXER 140QT * **	52
53	KEF-9 **	20 A	1					1.07	1.73				54
55	KEF-10 **	20 A	1	1.07	0.53								56
57	KEF (FUTURE)	20 A	1			1.07	0.53			3	15 A	OVEN (HOBART) * **	58
59								1.62	0.53				60
61	BAKERY WATER CHILLER	20 A	3	1.62	0.53								62
63						1.62	0.53			3	15 A	OVEN (HOBART) * **	64
65	SPARE	20 A	1					0	0.53				66
67	SPARE	20 A	1	0	0.53								68
69	SPARE	20 A	1			0	0.53			3	15 A	OVEN (HOBART) * **	70
71	SPARE	20 A	1					0	0.53				72
73	SPARE	20 A	1	0	0.53								74
75	SPARE	20 A	1			0	0.53			3	15 A	OVEN (HOBART FUTURE) * **	76
77	SPARE	20 A	1					0	0.53				78
79	SPACE	--	1	--	4.26								80
81	SPACE	--	1			--	4.26			3	45 A	PROOF BOX **	82
83	SPACE	--	1					--	4.26				84

TOTAL LOAD: 13.6 kVA | 14.7 kVA | 12.5 kVA
TOTAL AMPS: 115 A | 124 A | 104 A

PANEL TOTALS
TOTAL CONN. LOAD: 40.8 kVA
TOTAL EST. DEMAND: 30.5 kVA
TOTAL CONN. CURRENT: 113 A
TOTAL EST. DEMAND CURRENT: 85 A

NOTES:

BRANCH PANEL: P7A

SUPPLY FROM: SD-2 **VOLTS:** 208/120 Wye **A.I.C. RATING:** 22K SERIES MIN.
MOUNTING: IPC **PHASES:** 3 **MAINS TYPE:** MLO
RECEPTACLE **WIRES:** 4 **MAINS RATING:** 400 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1				1.88	1.8					1	20 A	FAT TESTER	2
3	MEAT SAW	20 A	3			1.88	0			1	20 A	SPARE	4
5								1.88	0	1	20 A	SPARE	6
7				0.94	0					1	20 A	SPARE	8
9	MEAT SAW	20 A	3			0.94	0.5			1	20 A	ROTISSERIE HOOD LIGHTS **	10
11								0.94	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SUSHI CUTTER/ ROLLER PREP...	20 A	1					0.72	0	1	20 A	SPARE	18
19	SUSHI CUTTER/ ROLLER PREP...	20 A	1	0.72	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	--			1	--	SPACE	22
23	SPARE	20 A	1					0	--	1	--	SPACE	24
25				3.04	--					1	--	SPACE	26
27	FUTURE GRINDER ** ***	60 A	3			3.04	4.77						28
29								3.04	4.77	3	50 A	COMBI OVEN ** ***	30
31	SPARE	20 A	1	0	4.77								32
33	SPARE	20 A	1			0	--			1	--	SHUNT TRIP BREAKER	34
35	SPARE	20 A	1					0	4.77				36
37	SPARE	20 A	1	0	4.77					3	50 A	COMBI OVEN ** ***	38
39	SPARE	20 A	1			0	4.77						40
41	SPARE	20 A	1					0	--	1	--	SHUNT TRIP BREAKER	42
43	HARDT OVEN ** ***	20 A	1	1.3	1					1	20 A	HAND WRAP	44
45	SHUNT TRIP BREAKER	--	1			--	0.9			1	20 A	HARDT OVEN ** ***	46
47	HARDT OVEN ** ***	20 A	1					0.9	--	1	--	SHUNT TRIP BREAKER	48
49	SHUNT TRIP BREAKER	--	1	--	1.3					1	20 A	HARDT OVEN ** ***	50
51	MEAT WRAPPER	20 A	2			0.1	--			1	--	SHUNT TRIP BREAKER	52
53								0.1	0.9	1	20 A	HARDT OVEN ** ***	54
55				1.8	--					1	--	SHUNT TRIP BREAKER	56
57	TENDERIZER	20 A	3			1.8	1.3			1	20 A	HARDT OVEN ** ***	58
59								1.8	--	1	--	SHUNT TRIP BREAKER	60
61	BLAST CHILLER	30 A	2	1.87	0.36					1	20 A	DC/RECEPTACLES	62
63						1.87	0.18			1	20 A	DC/RECEPTACLES	64
65	SPARE	20 A	1					0	0.9	1	20 A	HARDT OVEN ***	66
67	FOOD PROCESSOR	20 A	1	0.36	--					1	--	SHUNT TRIP BREAKER	68
69						3.04	1.3			1	20 A	HARDT OVEN ** ***	70
71	GRINDER 7.5 HP ** ***	60 A	3					3.04	--	1	--	SHUNT TRIP BREAKER	72
73				3.04	0.18					1	20 A	HAND WRAP STATION RECEPT	74
75	SPACE	--	1			--	1.1			1	20 A	GREASE CART ** ***	76
77	SPACE	--	1					--	--	1	--	SHUNT TRIP BREAKER	78
79	SPACE	--	1	--	--					1	--	SPACE	80
81	DC/RECEPTACLES **	20 A	1			0.54	--			1	--	SPACE	82
83	FOAM CLEANING SYSTEM	20 A	1					0.36	--	1	--	SPACE	84

TOTAL LOAD: 29.1 kVA | 28 kVA | 24.1 kVA
TOTAL AMPS: 248 A | 239 A | 201 A

PANEL TOTALS
TOTAL CONN. LOAD: 81.3 kVA
TOTAL EST. DEMAND: 53.2 kVA
TOTAL CONN. CURRENT: 226 A
TOTAL EST. DEMAND CURRENT: 148 A

NOTES: PROVIDE ISOLATED GROUND BUS FOR THIS PANEL. PROVIDE GFI BREAKER FOR ALL BREAKERS UNLESS
OTHERWISE NOTED. PROVIDE LABEL PER NEC 110.22
* PROVIDE LOCK IN DEVICE AND MARK "LEAVE ON". ** NON GFI BREAKER
*** SHUNT TRIP BREAKER

BRANCH PANEL: P7B

SUPPLY FROM: SD-2 **VOLTS:** 208/120 Wye **A.I.C. RATING:** 22K SERIES MIN.
MOUNTING: **PHASES:** 3 **MAINS TYPE:** MLO
MISC **WIRES:** 4 **MAINS RATING:** 100 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	EF-6	20 A	1	0.7	--					1	--	SPACE	2
3	EF-7	20 A	1			0.7	--			1	--	SPACE	4
5	EF-23	20 A	1					0.7	3.87	2	50 A	HOT CASE	6
7	ANSUL SYSTEM *	20 A	1	0.04	3.87								8
9	BMS-2	20 A	1			0.2	1.32						10
11	SPARE	20 A	1					0	1.32	3	20 A	KEF-12	12
13	SPARE	20 A	1	0	1.32								14
15	SPARE	20 A	1			0	1.32						16
17	SPARE	20 A	1					0	1.32	3	20 A	KEF-13	18
19	SPARE	20 A	1	0	1.32								20
21	SPARE	20 A	1			0	--			1	--	SPACE	22
23	SPARE	20 A	1					0	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42

TOTAL LOAD: 7.3 kVA | 3.5 kVA | 7.2 kVA
TOTAL AMPS: 65 A | 30 A | 65 A

PANEL TOTALS
TOTAL CONN. LOAD: 18.0 kVA
TOTAL EST. DEMAND: 15.3 kVA
TOTAL CONN. CURRENT: 50 A
TOTAL EST. DEMAND CURRENT: 42 A

NOTES: PROVIDE ISOLATED GROUND BUS FOR THIS PANEL.
* PROVIDE LOCK IN DEVICE & MARK "LEAVE ON"

BRANCH PANEL: P8

SUPPLY FROM: SD-1 **VOLTS:** 208/120 Wye **A.I.C. RATING:** 10K MIN.
MOUNTING: FLUSH **PHASES:** 3 **MAINS TYPE:** MLO
RECEPTACLE **WIRES:** 4 **MAINS RATING:** 225 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	SALES RECEPTACLE	20 A	1	0.18	0.36					1	20 A	SALES RECEPTACLE	2
3	SALES RECEPTACLE	20 A	1			0.18	0.36			1	20 A	SALES RECEPTACLE	4
5	SALES RECEPTACLE	20 A	1					0.36	0.36	1	20 A	SALES RECEPTACLE	6
7	SALES RECEPTACLE	20 A	1	0.18	0.36					1	20 A	SALES RECEPTACLE	8
9	SALES RECEPTACLE	20 A	1			0.18	1			2	20 A	WIRELESS KIOSK	10
11	SALES RECEPTACLE	20 A	1					0.18	1				12
13	SALES RECEPTACLE	20 A	1	0.36	0.36					1	20 A	MEMBERSHIP CARD READER...	14
15	SALES RECEPTACLE	20 A	1			0.36	0.36			1	20 A	SALES RECEPTACLE	16
17	SALES RECEPTACLE	20 A	1					0.36	0.36	1	20 A	SALES RECEPTACLE	18
19	SALES RECEPTACLE	20 A	1	0.36	0.54					1	20 A	CONVENIENCE RECEPT	20
21	SALES RECEPTACLE	20 A	1			0.36	0.36			1	20 A	CONVENIENCE RECEPT	22
23	SALES RECEPTACLE	20 A	1					0.36	0.18	1	20 A	CANOPY MEMBERSHIP RECEPT	24
25	SALES RECEPTACLE	20 A	1	0.36	0.18					1	20 A	CANOPY MEMBERSHIP RECEPT	26
27	SALES RECEPTACLE	20 A	1			0.36	1.49			2	30 A	AD-6	28
29	SALES RECEPTACLE	20 A	1					0.36	1.49				30
31	SALES RECEPTACLE	20 A	1	0.36	1.88					2	40 A	AD-4 & 5	32
33	SALES RECEPTACLE	20 A	1			0.36	1.88						34
35	SALES RECEPTACLE	20 A	1					0.36	0.72	1	20 A	MEMBERSHIP RECEPTACLES	36
37	SLIDING DOOR POWER	20 A	1	1	0.36					1	20 A	MEMBERSHIP RECEPTACLES	38
39	SLIDING DOOR POWER	20 A	1			1	1			2	20 A	WIRELESS KIOSK	40
41	LIQUOR SALES WH	20 A	1					1.2	1				42
43	SPARE	20 A	1	0	0.32					1	20 A	RH-1-6	44
45	SPARE	20 A	1			0	--			1	--	SPACE	46
47	SPARE	20 A	1					0	--	1	--	SPACE	48
49	SPARE	20 A	1	0	--					1	--	SPACE	50
51	SPARE	20 A	1			0	--			1	--	SPACE	52
53	SPARE	20 A	1					0	--	1	--	SPACE	54
55	SPACE	--	1	--	--					1	--	SPACE	56
57	SPACE	--	1			--	--			1	--	SPACE	58
59	SPACE	--	1					--	--	1	--	SPACE	60
61	SPACE	--	1	--	--					1	--	SPACE	62
63	SPACE	--	1			--	--			1	--	SPACE	64
65	SPACE	--	1					--	--	1	--	SPACE	66
67	SPACE	--	1	--	--					1	--	SPACE	68
69	SPACE	--	1			--	--			1	--	SPACE	70
71	SPACE	--	1					--	--	1	--	SPACE	72
73	SPACE	--	1	--	--					1	--	SPACE	74
75	SPACE	--	1			--	--			1	--	SPACE	76
77	SPACE	--	1					--	--	1	--	SPACE	78
79	SPACE	--	1	--	--					1	--	SPACE	80
81	SPACE	--	1			--	--			1	--	SPACE	82
83	SPACE	--	1					--	--	1	--	SPACE	84

TOTAL LOAD: 7.2 kVA | 9.2 kVA | 8.3 kVA
TOTAL AMPS: 60 A | 79 A | 71 A

PANEL TOTALS
TOTAL CONN. LOAD: 24.7 kVA
TOTAL EST. DEMAND: 24.5 kVA
TOTAL CONN. CURRENT: 69 A
TOTAL EST. DEMAND CURRENT: 68 A

NOTES:
* PROVIDE GFI BREAKER

BRANCH PANEL: P9A

SUPPLY FROM: SD-1 **VOLTS:** 208/120 Wye **A.I.C. RATING:** 18K SERIES
MOUNTING: FLUSH **PHASES:** 3 **MAINS TYPE:** MLO
RECEPTACLE **WIRES:** 4 **MAINS RATING:** 225 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1					0					1	20 A	SPARE	2
3	DOUGH PRESS & AIR COMP	20 A	1			1.4	0			1	20 A	SPARE	4
5	PIZZA WARMER	20 A	1					1.44	1.31	2	20 A	SMOOTHIE MACHINE	6
7	PRINTER/INTERCOM	20 A	1	0.48	1.31								8
9	CONDIMENT COUNTER **	20 A	1			0.82	1.31			2	20 A	SMOOTHIE MACHINE	10
11	SANDWICH REFRIGERATOR	20 A	1					0.3	1.31				12
13	FREEZER	20 A	1	0.96	1					2	20 A	SELF-SERVICE KIOSKS **	14
15	TABLETOP WARMER	20 A	1			0.18	1						16
17	PIZZA PREP	20 A	1					1.23	1	2	20 A	SELF-SERVICE KIOSKS **	18
19	PIZZA DISPLAY	20 A	2	1	1								20
21						1	1.2			1	20 A	PIZZA OVEN * **	22
23	PIZZA WINDOW/BOX RECEPTACLE	20 A	1					0.36	--	1	--	SHUNT TRIP BREAKER	24
25				4.76	1.2					1	20 A	PIZZA OVEN *	26
27	HOT DOG COOKER	50 A	3			4.76	--			1	--	SHUNT TRIP BREAKER	28
29								4.76	1.2	1	20 A	PIZZA OVEN *	30
31					--					1	--	SHUNT TRIP BREAKER	32
33	WATER BOOSTER PUMP **	20 A	1			1.2	0			1	20 A	SPARE	34
35	AUTO DISPENSOR **	20 A	1					1.64	1.68	1	20 A	PRETZEL DISPLAY	36
37				2.52	2.16								38
39	YOGURT MACHINE	25 A	3			2.52	2.16			3	20 A	YOGURT MACHINE	40
41								2.52	2.16				42

TOTAL LOAD: 16.4 kVA | 17.6 kVA | 20.9 kVA
TOTAL AMPS: 137 A | 148 A | 176 A

PANEL TOTALS
TOTAL CONN. LOAD: 54.9 kVA
TOTAL EST. DEMAND: 44.2 kVA
TOTAL CONN. CURRENT: 152 A
TOTAL EST. DEMAND CURRENT: 123 A

NOTES: PROVIDE GFI BREAKER FOR ALL BREAKERS UNLESS OTHERWISE NOTED. PROVIDE LABEL PER NEC 110.22
* SHUNT TRIP BREAKER
** NON GFI BREAKER

BRANCH PANEL: P9B

SUPPLY FROM: SD-1 **VOLTS:** 208/120 Wye **A.I.C. RATING:** 18K SERIES
MOUNTING: FLUSH **PHASES:** 3 **MAINS TYPE:** MLO
MISC **WIRES:** 4 **MAINS RATING:** 225 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	ICE MACHINE	20 A	2	1.44	1.44					2	20 A	ICE MACHINE	2
3						1.44	1.44						4
5	ICE DISPENSER **	20 A	1					0.36	0.36	1	20 A	ICE DISPENSER **	6
7	FOOD SERVICE RECEPTACLE	20 A	1	0.36	0.2					1	20 A	COOLER LIGHTS	8
9							0.7						10
11	SF-6	20 A	1					0.86	0.7	3	15 A	COFFEE GRINDER	12
13	ICE MACHINE	20 A	2	1.44	0.7								14
15						1.44	0.7						16
17	ICE DISPENSER **	20 A	1					0.36	0.7	3	15 A	COFFEE GRINDER	18
19	CONDENSER CU1	20 A	2	1.73	0.7								20
21						1.73	0.2			1	20 A	ANSUL SYSTEM *	22
23	CONDENSER CU2	20 A	2					1.73	0.5	1	20 A	FOOD SERVICE HOOD LIGHT	24
25				1.73	0.18					1	20 A	THERMO SIMPLE (M21)	26
27							0.18			2	20 A	EVAPORATOR FAN #1	28
29									0.18				30
31	SPARE	20 A	1	0	0.18					2	20 A	EVAPORATOR FAN #2	32
33	SPARE	20 A	1			0	0.18						34
35	SPARE	20 A	1					0	3.13				36
37	SPARE	20 A	1	0	0					3	20 A	KEF-5	38
39	SPARE	20 A	1			0	0						40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42

TOTAL LOAD: 10.1 kVA | 8 kVA | 8.9 kVA
TOTAL AMPS: 85 A | 67 A | 75 A

PANEL TOTALS
TOTAL CONN. LOAD: 27.0 kVA
TOTAL EST. DEMAND: 22.1 kVA
TOTAL CONN. CURRENT: 75 A
TOTAL EST. DEMAND CURRENT: 61 A

NOTES: PROVIDE LABEL PER NEC 110.22
* PROVIDE LOCK IN DEVICE & MARK "LEAVE ON".
** GFI BREAKER

BRANCH PANEL: P10

SUPPLY FROM: SD-1 **VOLTS:** 208/120 Wye **A.I.C. RATING:** 22K
MOUNTING: IPC **PHASES:** 3 **MAINS TYPE:** MLO
MISC **WIRES:** 4 **MAINS RATING:** 225 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	DYSON AIR DRYER	20 A	1	1.44	0.65					2	20 A	CF-1	2
3	DYSON AIR DRYER	20 A	1			1.44	0.65						4
5	DYSON AIR DRYER	20 A	1					1.44	0.65	2	20 A	CF-2	6
7	DYSON AIR DRYER	20 A	1	1.44	0.65								8
9	PHARMACY OVERHEAD SHUTTER	20 A	1			1	--			1	--	SPACE	10
11	EF-1	25 A	1					1.66	--	1	--	SPACE	12
13	TF-22	20 A	1	1.68	--					1	--	SPACE	14
15	TF-23	20 A	1			1.68	--			1	--	SPACE	16
17	SPARE	20 A	1					0	--	1	--	SPACE	18
19	SPARE	20 A	1	0	--					1	--	SPACE	20
21	SPARE	20 A	1			0	--			1	--	SPACE	22
23	OPTICAL PLUGMOLD	20 A	1					1	0.5	1	20 A	CP-1	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	3.4			2	40 A	CU-1	28
29	SPARE	20 A	1					0	3.4				30
31	FLOWER CASE POWER	30 A	2	3.12	3.4					2	40 A	CU-2	32
33						3.12	3.4						34
35	CF-3	20 A	2					0.65	3.4	2	40 A	CU-3	36
37				0.65	3.4								38
39	CF-4	20 A	2			0.65	3.4			2	40 A	CU-4	40
41								0.65	3.4				42

TOTAL LOAD: 16.4 kVA | 18.7 kVA | 16.7 kVA
TOTAL AMPS: 137 A | 157 A | 140 A

PANEL TOTALS
TOTAL CONN. LOAD: 51.9 kVA
TOTAL EST. DEMAND: 51.9 kVA
TOTAL CONN. CURRENT: 144 A
TOTAL EST. DEMAND CURRENT: 144 A

NOTES:

BRANCH PANEL: P11

SUPPLY FROM: SD-3 **VOLTS:** 208/120 Wye **A.I.C. RATING:** 22K SERIES MIN.
MOUNTING: IPC **PHASES:** 3 **MAINS TYPE:** MLO
LIGHTING **WIRES:** 4 **MAINS RATING:** 100 A
PANEL TYPE: SQ-D NQOD-PL CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	SPARE	20 A	1	0	0.96					1	20 A	MULLION LIGHTS COOLER *	2
3	SPARE	20 A	1			0	0.96			1	20 A	MULLION LIGHTS FREEZER #1 *	4
5	SPARE	20 A	1					0	0.96	1	20 A	MULLION LIGHTS FREEZER #2 *	6
7	SPARE	20 A	1	0	0.54					1	20 A	DELI ISLAND LIGHTS *	8
9	SPARE	20 A	1			0	0.54			1	20 A	DELI ISLAND LIGHTS *	10
11	SPARE	20 A	1					0	0.54	1	20 A	DELI ISLAND LIGHTS *	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42

TOTAL LOAD: 1.5 kVA | 1.5 kVA | 1.5 kVA
TOTAL AMPS: 13 A | 13 A | 13 A

PANEL TOTALS
TOTAL CONN. LOAD: 4.5 kVA
TOTAL EST. DEMAND: 5.6 kVA
TOTAL CONN. CURRENT: 12 A
TOTAL EST. DEMAND CURRENT: 16 A

NOTES: PROVIDE LABEL PER NEC 110.22
* POWERLINK BREAKER. SEE LIGHTING CONTROL SCHEDULE FOR CONTROL SEQUENCE

PANEL SCHEDULE NOTES:

PROVIDE BREAKER HANDLE TIES AS REQUIRED TO COMPLY WITH NEC, ARTICLE 210.4.
HANDLE TIES TO BE INSTALLED FOR BREAKERS ON CIRCUITS SHARING ONE NEUTRAL CONDUCTOR.

PLAN NOTES - E11	
1	DOOR LIGHTS ON AT 9:00 AM - OFF AT 9:00 PM
2	DOOR LIGHTS ON AT 4:00 AM - OFF AT 10:00 PM
3	OFFICE POWER ON AT 6:00 AM - OFF AT 11:00 PM

C:\Users\mwidjaja\Documents_346_E_CENTRAL 2023_mwidjaja5H9M6.rvt
12/22/2025 5:55:49 PM

PERMIT

STATE OF MISSOURI
JOEL G. MORTENSON
NUMBER
PE-2024000146
PROFESSIONAL ENGINEER
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

PROJECT STATUS: ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/17/25	ISSUED FOR PERMIT

© T.E., Inc.; All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE
LEE'S SUMMIT, MO
#___

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

PANEL SCHEDULES

E-10

BRANCH PANEL: C

SUPPLY FROM: T3 | **VOLTS:** 208/120 Wye | **A.I.C. RATING:** 10kA
MOUNTING: IPC | **PHASES:** 3 | **MAINS TYPE:** 150A MCB
WIRES: 4 | **MAINS RATING:** 225 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	MEMBERSHIP COUNTER	20 A	1	0.36	0.36					1	20 A	MEMBERSHIP COUNTER	2
3	MEMBERSHIP COUNTER	20 A	1			0.36	0.36			1	20 A	MEMBERSHIP COUNTER	4
5	MEMBERSHIP COUNTER	20 A	1					0.36	0.36	1	20 A	PHARMACY RECEPTACLE	6
7	PHARMACY RECEPTACLE	20 A	1	0.5	0.36					1	20 A	MIMO MACHINE RECEPTACLE	8
9	PHARMACY RECEPTACLE	20 A	1			0.54	0.54			1	20 A	OPTICAL EXAM RECEPT	10
11	HEARING AID RECEPTACLE	20 A	1					0.48	0.54	1	20 A	OPTICAL RECEPT ***	12
13	FOOD SERVICE CASH REGISTER ***	20 A	1	0.36	0.36					1	20 A	MIMO MACHINE RECEPTACLE	14
15	FOOD SERVICE CASH REGISTER ***	20 A	1			0.36	0			1	20 A	SPARE	16
17	PHARMACY RECEPTACLE	20 A	1					0.54	1	1	20 A	MANAGER PODIUM RECEPTACLE	18
19	MANAGER OFFICE RECEPTACLE	20 A	1	0.72	0.18					1	20 A	TIRE CENTER RECEPTACLE	20
21	FOOD SERVICE SCALE RECEPT ***	20 A	1			0.18	0.36			1	20 A	TIRE CENTER RECEPTACLE	22
23	LOCKER ROOM RECEPTACLE	20 A	1					0.36	0.18	1	20 A	TIRE CENTER RECEPTACLE	24
25	ATM MACHINE & CARD READER *	20 A	1	0.36	0.36					1	20 A	OFFICE RECEPTACLE	26
27	PHARMACY RECEPTACLE	20 A	1			0.54	0.72			1	20 A	OFFICE RECEPTACLE	28
29	PHARMACY RECEPTACLE	20 A	1					0.54	0.54	1	20 A	OFFICE RECEPTACLE	30
31	PHARMACY RECEPTACLE	20 A	1	0.54	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	SPARE	34
35	SPARE	20 A	1					0	0	1	20 A	SPARE	36
37	DOOR ALARM *	20 A	1	0.36	0.54					1	20 A	OPTICAL RECEPTACLE	38
39	FIRE ALARM PANEL * **	20 A	1			0.18	0.54			1	20 A	OPTICAL RECEPTACLE	40
41	COPY MACHINE RECEPTACLE	20 A	1					0.18	0.36	1	20 A	OPTICAL RECEPTACLE	42
43	HEARING AID BOOTH RECEPTACLE	20 A	1	1	0					1	20 A	SPARE	44
45	HEARING AID BOOTH RECEPTACLE	20 A	1			1.08	0.18			1	20 A	MPU RECEPTACLE	46
47	HEARING AID BOOTH RECEPTACLE	20 A	1					1	0.54	1	20 A	OFFICE RECEPTACLES	48
49	HEARING AID RECEPTACLE	20 A	1	0.72	5					2	100 A	SUBFEED UPS & PANEL C1	50
51	BOINGO DAS SYSTEM	20 A	1			0.18	5						52
53	BOINGO CELL REPEATER	20 A	1					1	0	1	20 A	SPARE	54
	TOTAL LOAD:			12.1 kVA		11.1 kVA		8 kVA					
	TOTAL AMPS:			105 A		97 A		67 A					

PANEL TOTALS

TOTAL CONN. LOAD:	31.2 kVA
TOTAL EST. DEMAND:	29.4 kVA
TOTAL CONN. CURRENT:	87 A
TOTAL EST. DEMAND CURRENT:	82 A

NOTES: PROVIDE ISOLATED GROUND BUS FOR THIS PANEL
* PROVIDE LOCK IN DEVICE & MARK "LEAVE ON".
** IDENTIFIED RED CIRCUIT BREAKER. PANEL HAS LOCKABLE COVER
*** PROVIDE GFI BREAKER

BRANCH PANEL: C1

SUPPLY FROM: | **VOLTS:** 240/120 | **A.I.C. RATING:** 10kA
MOUNTING: IPC | **PHASES:** 1 | **MAINS TYPE:** 100A MCB
WIRES: 3 | **MAINS RATING:** 100 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		P	Trip	Circuit Description	#
1	CASH REGISTER	20 A	1	0.4	0.4			1	20 A	CASH REGISTER	2
3	CASH REGISTER	20 A	1			0.4	0.4	1	20 A	CASH REGISTER	4
5	CASH REGISTER	20 A	1	0.4	0.4			1	20 A	CASH REGISTER	6
7	CASH REGISTER	20 A	1			0.4	0.4	1	20 A	CASH REGISTER	8
9	CASH REGISTER	20 A	1	0.4	0.4			1	20 A	CASH REGISTER	10
11	CASH REGISTER	20 A	1			0.4	0.4	1	20 A	CASH REGISTER	12
13	SPARE	20 A	1	0	0			1	20 A	SPARE	14
15	SPARE	20 A	1			0	0	1	20 A	SPARE	16
17	ENFLEX PANEL *	20 A	1	0.36	0.18			1	20 A	EDP RECEPTACLE	18
19	SPARE	20 A	1			0	0.18	1	20 A	EDP RECEPTACLE	20
21	BMS-1 PANEL *	20 A	1	0	0.18			1	20 A	EDP RECEPTACLE	22
23	SPARE	20 A	1			0	0.18	1	20 A	EDP RECEPTACLE	24
25	MIMO MACHINE RECEPTACLE *	20 A	1	1	0.18			1	20 A	MEMBERSHIP IDF *	26
27	TELEPHONE OUTLET *	20 A	1			0.36	0	1	20 A	SPARE	28
29	MIMO MACHINE RECEPTACLE *	20 A	1	0.18	0			1	20 A	SPARE	30
31	RAFTER IDF *	20 A	1			0.18	0.4	1	20 A	SELF CHECK OUT REGISTER	32
33	SPACE	--	1	--	0.4			1	20 A	SELF CHECK OUT REGISTER	34
35	SPACE	--	1			--	0.4	1	20 A	SELF CHECK OUT REGISTER	36
37	SPACE	--	1	--	0.4			1	20 A	SELF CHECK OUT REGISTER	38
39	SPACE	--	1			--	0.4	1	20 A	SELF CHECK OUT REGISTER	40
41	SPACE	--	1	--	0.4			1	20 A	SELF CHECK OUT REGISTER	42
	TOTAL LOAD:			5.7 kVA		4.5 kVA					
	TOTAL AMPS:			47 A		38 A					

PANEL TOTALS

TOTAL CONN. LOAD:	10.2 kVA
TOTAL EST. DEMAND:	10.2 kVA
TOTAL CONN. CURRENT:	42 A
TOTAL EST. DEMAND CURRENT:	42 A

NOTES: PROVIDE ISOLATED GROUND BUS FOR THIS PANEL
PANEL C1 RECEPTACLE SHALL HAVE RED FACEPLATE AND BE LABELED 'UPS'
* PROVIDE LOCK IN DEVICE & MARK "LEAVE ON".

BRANCH PANEL: C2

SUPPLY FROM: T4 | **VOLTS:** 208/120 Wye | **A.I.C. RATING:** 10K MIN.
MOUNTING: IPC | **PHASES:** 3 | **MAINS TYPE:** 50 A MCB
RECEPTACLE | **WIRES:** 4 | **MAINS RATING:** 60 A
PANEL TYPE: SQ-D NQOD CU BUS

#	Circuit Description	Trip	P	A		B		C		P	Trip	Circuit Description	#
1	RTV RECEPTACLE	20 A	1	0.72	0.36					1	20 A	DELI PRINTER *	2
3	RECEIVING COUNTER	20 A	1			1.08	0.18			1	20 A	ROTISSERIE PRINTER *	4
5	LABEL SYSTEM *	20 A	1					0.36	0.18	1	20 A	DEMO ROOM RECEPTACLE	6
7	KVM (M14,M15)	20 A	1	0.36	0.18					1	20 A	DIGI SCALE & PRINTER *	8
9	BAKERY SCALES RECEPT	20 A	1			0.18	0.18			1	20 A	IDF BOX **	10
11	SPARE	20 A	1					0	--	1	--	SPACE	12
13	SPARE	20 A	1	0	--					1	--	SPACE	14
15	SPARE	20 A	1			0	--			1	--	SPACE	16
17	SPARE	20 A	1					0	--	1	--	SPACE	18
19	SPARE	20 A	1	0	--					1	--	SPACE	20
21	SPARE	20 A	1			0	--			1	--	SPACE	22
23	SPARE	20 A	1					0	--	1	--	SPACE	24
25	SPARE	20 A	1	0	--					1	--	SPACE	26
27	SPARE	20 A	1			0	--			1	--	SPACE	28
29	SPARE	20 A	1					0	--	1	--	SPACE	30
	TOTAL LOAD:			1.6 kVA		1.6 kVA		0.5 kVA					
	TOTAL AMPS:			15 A		15 A		5 A					

PANEL TOTALS

TOTAL CONN. LOAD:	3.8 kVA
TOTAL EST. DEMAND:	3.8 kVA
TOTAL CONN. CURRENT:	10 A
TOTAL EST. DEMAND CURRENT:	10 A

NOTES: PROVIDE ISOLATED GROUND BUS FOR THIS PANEL
* GFI BREAKER
** PROVIDE LOCK-IN DEVICE & MARK "LEAVE ON".

PANEL SCHEDULE NOTES:

PROVIDE BREAKER HANDLE TIES AS REQUIRED TO COMPLY WITH NEC, ARTICLE 210.4. HANDLE TIES TO BE INSTALLED FOR BREAKERS ON CIRCUITS SHARING ONE NEUTRAL CONDUCTOR.

PLAN NOTES - E11	
1	DOOR LIGHTS ON AT 9:00 AM - OFF AT 9:00 PM
2	DOOR LIGHTS ON AT 4:00 AM - OFF AT 10:00 PM
3	OFFICE POWER ON AT 6:00 AM - OFF AT 11:00 PM

LIGHTING CONTROL SCHEDULE H1

PARKING LTS 1ST GROUP PHOTO ON-TIME OFF — H1/2
PARKING LTS 2ND GROUP PHOTO ON-TIME OFF — H1/4
SECURITY LTS PHOTO ON-PHOTO OFF — H1/36
SIGN LTS PHOTO ON-TIME OFF — H1/34
BAKERY, MEAT ISLAND, FRESHLINE, DEMO ROOM, & MISC TIME ON-TIME OFF — H1/26, H1/22, H1/30, H1/28, H1/38
PARKING LTS SHARED DRIVEWAY PHOTO ON-TIME OFF — H1/6
COOLERS / FREEZER (2) — H1/3, H1/19, H1/23
PREP LIGHTS (2) — H1/7, H1/11, H1/15
DAIRY COOLER LIGHTS (2) — H1/27
PRODUCE COOLER LIGHTS (2) — H1/31

LIGHTING SCHEDULE SHOWN AS REFERENCE TO LIGHTING CONTROL COMPANY OF POWERLINK PANELS. THESE SCHEDULES DESIGNATE WHICH BREAKERS MUST BE POWERLINK BREAKERS. E.C. MUST CIRCUIT LIGHTING PER PLAN. E.C. TO PAY FOR ANY REPROGRAMMING OR REWIRING RESULTING FROM MIS-CIRCUITED INSTALLATION.

RECEPTACLE CONTROL SCHEDULE P2

OFFICE RECEPTACLES TIME ON-TIME OFF (3) — P2/43, P2/45, P2/47, P2/49, P2/51, P2/53

LIGHTING CONTROL SCHEDULE P3

FREEZER LIGHTS (1) — P3/4, P3/6
COOLER LIGHTS (1) — P3/2
DELI AND MEAT ISLAND (2) — P3/1, P3/3, P3/5

LIGHTING CONTROL SCHEDULE H2

PARKING LTS 1ST GROUP PHOTO ON-TIME OFF — H2/14, H2/18
SOFFIT LTS PHOTO ON-TIME OFF — H2/26, H2/28
FOOD SERVICE, OFFICE, OPTICAL, PHARMACY TIME ON-TIME OFF — H2/2, H2/6, H2/10
PARKING LTS 2ND GROUP PHOTO ON-TIME OFF — H2/16, H2/22
SECURITY LTS PHOTO ON-TIME OFF — H2/34*
PARKING LTS SHARED DRIVEWAY PHOTO ON-TIME OFF — H2/20
SIGN LTS PHOTO ON-TIME OFF — H2/32

* "ON" SAME TIME AS CANOPY LIGHTING.

PERMIT

JOEL G. MORTENSON NUMBER PE-2024000146
PROFESSIONAL ENGINEER — STATE OF MISSOURI
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:57

PROJECT STATUS: ISSUED FOR CONSTRUCTION

△	DATE	DESCRIPTION
	11/26/25	ISSUED FOR GA
	12/17/25	ISSUED FOR PERMIT

© T.E., Inc.
This document is the property of T.E., Inc. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
9320 N. RIVERSIDE DRIVE
SUITE 200
RENTON, WA 98057
PHONE: 425-970-3753
FAX: 425-970-3756

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE

#

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

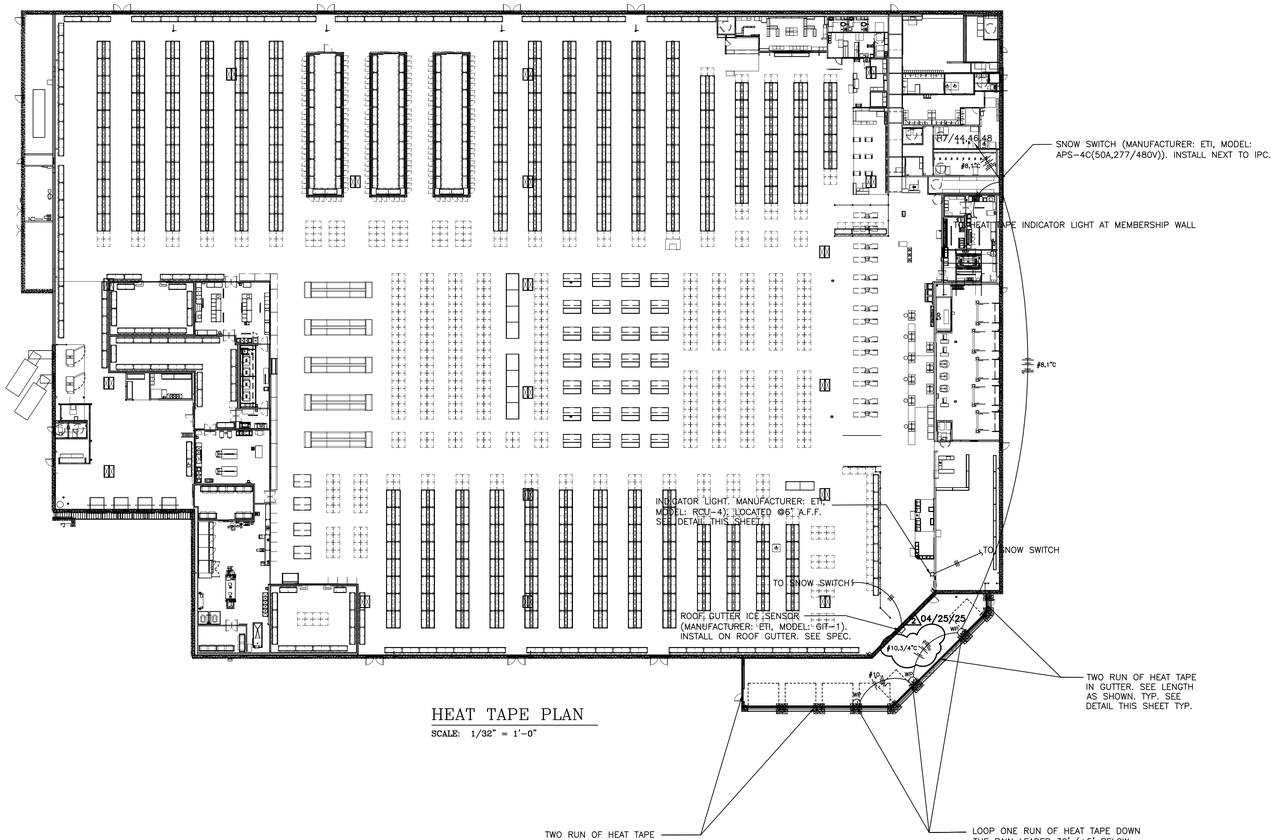
PANEL SCHEDULES, CONTROL SCHEDULE

E-11

12/22/2025 5:55:53 PM C:\Users\mwidjaja\Documents_346_E_CENTRAL 2023_mwidjaja5H9M6.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEES SUMMIT, MISSOURI
Dec 29, 2026 4:03:57

PERMIT



HEAT TAPE PLAN

SCALE: 1/32" = 1'-0"

NOTE: DO NOT PERFORATE GUTTER, SCUPPERS OR ANY OTHER COMPONENT OF THE DRAINAGE SYSTEM. USE MANUS BOND 75AM SEALANT AS ADHESIVE TO ATTACH THE CLIPS OR ANY OTHER COMPONENTS TO THE GUTTER AND/OR SCUPPER.

GENERAL NOTES:

1. PROVIDE HEAT TAPE IN BUILDING ADDITION, & CANOPY. COORDINATE W/ARCHITECTURAL PLAN FOR ROOF DRAIN AND OVERFLOW DRAIN LOCATIONS.
2. PROVIDE A COMPLETE HEAT TAPE SYSTEM. INSTALL PER MANUFACTURER RECOMMENDATIONS
3. THE INSTALLATION OF THE HEAT TAPE AND ICE MELTING CABLE SHALL COMPLY WITH THE LATEST NEC
4. E.C. TO PROVIDE ALL LOW VOLTAGE WIRING IN CONDUIT, MINIMUM OF 1/2" C.
5. E.C TO PROVIDE LAMACOID LABEL FOR ALL HEAT TAPE ELECTRICAL DEVICES.

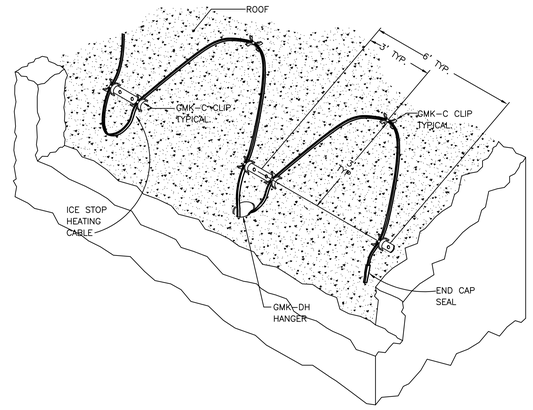
ROOF HEAT TAPE INDICATORS

HEAT TAPE INDICATOR DETAIL

NO SCALE

HEAT TAPE INDICATOR DETAIL NOTE:

1. SURFACE MOUNT ON BLOCK WALL 6-12" FROM MEMBERSHIP POP-OUT WALL, OFFICE SIDE OF MEMBERSHIP IN SINGLE GANG BOX.

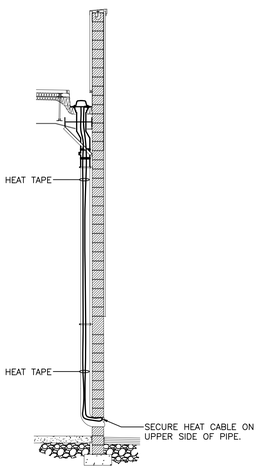


HEAT TAPE DETAIL

NO SCALE

HEAT TAPE DETAIL NOTES:

1. INSTALL HEAT CABLES AS RECOMENDED BY MANUFACTURER.
2. SEAL ALL PENETRATIONS.



OVERFLOW DRAIN DETAIL

NO SCALE

JOEL G. MORTENSON
NUMBER
PE-2024000146
PROFESSIONAL ENGINEER
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

△	DATE	DESCRIPTION
	11/26/25	ISSUED FOR QA
	12/17/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200 98057
RENTON, WA 98057
PHONE: 425-970-7251
FAX: 425-970-3746

© T.E., INC.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., INC.

NEW WAREHOUSE

LEE'S SUMMIT, MO

COSTCO WHOLESALE

#

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

CANOPY HEAT TAPE POWER PLAN

E-12

C:\Users\mwidjaja\Documents_346_E_CENTRAL_2023_mwidjaja5H9M6.rvt
12/22/2025 5:59:14 PM

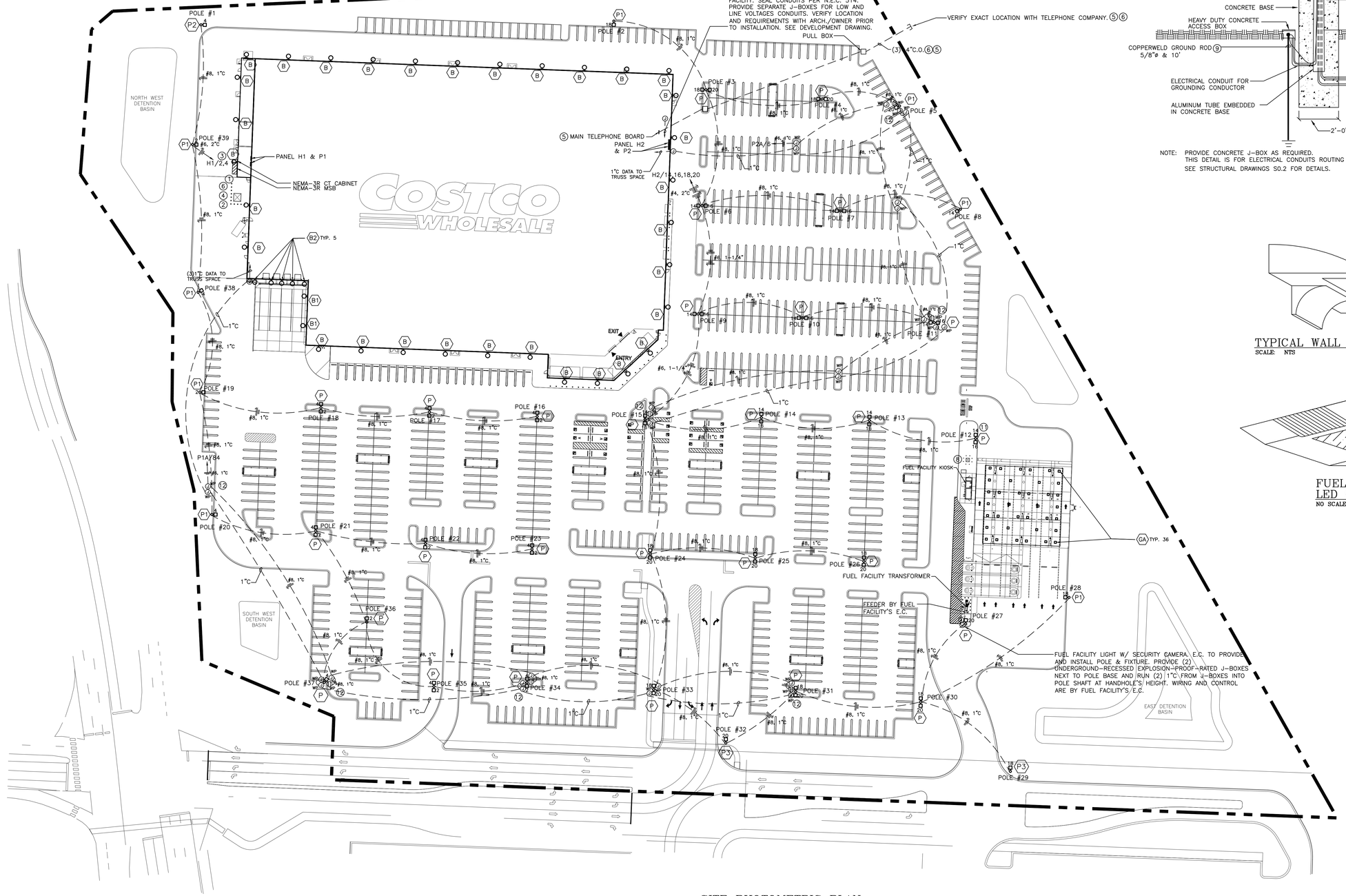
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:57

SITE PLAN NOTES:

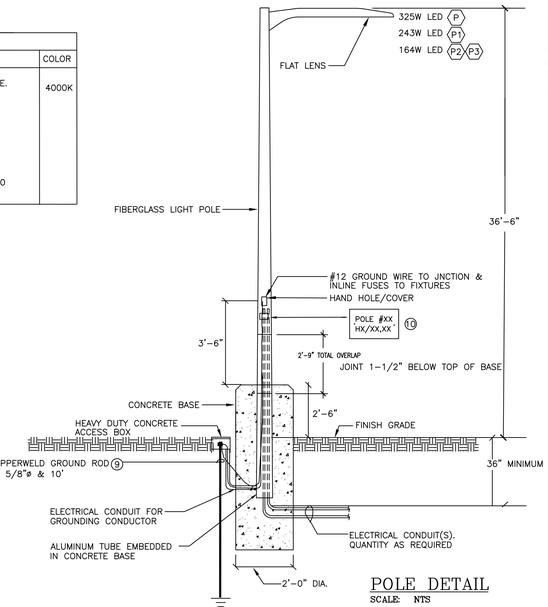
1. SECONDARY SERVICE LATERAL. VERIFY EXACT ROUTING PRIOR TO BID. SEE ONE LINE DIAGRAM. COORDINATE WITH THE POWER COMPANY FOR ALL REQUIREMENTS FOR CONNECTION OF THE TRANSFORMER. SEE NOTE (2)
2. TRANSFORMER IS PROVIDED BY POWER CO. E.C. SHALL COORDINATE WITH POWER COMPANY FOR ALL INSTALLATION OF TRANSFORMER & ITS CONNECTION. PROVIDE GUARD POSTS, TRANSFORMER PAD, ETC. AS REQUIRED. MEET ALL POWER COMPANY REQUIREMENTS, INCLUDE ALL CHARGES IN BID.
3. UTILITY METERING. INSTALL ALL METERING EQUIPMENT SUPPLY BY POWER CO. AS REQUIRED.
4. PRIMARY CONDUITS AND TRENCHING ARE PROVIDED BY G.C. / E.C. VERIFY EXACT LOCATION AND REQUIREMENT WITH THE UTILITY COMPANY PRIOR TO BID. OBTAIN ALL CHARGES PRIOR TO BID, INCLUDE IN BID. SEE CIVIL DRAWINGS FOR EXACT LOCATION. PROVIDE 6" BED OF CLEAN SAND FOR PRIMARY CONDUIT. COVER WITH 12" OF CLEAN SAND. COVER WITH CABLE WARNING TAPE AND BACKFILL. PROVIDE HEAVY DUTY TRAFFIC RATED COVERPLATE FOR PULL BOXES.
5. PROVIDE AND INSTALL TELEPHONE TERMINAL BOARD AS DIRECTED BY THE TELEPHONE COMPANY. ALLOW (1) – 4' X 8' X 3/4" EXTERIOR PLYWOOD BOARD WITH (2) COATS VARNISH FOR BIDDING. THREE (3) 4" SCHEDULE 40 ENTRANCE CONDUITS AT A DEPTH OF 36" MIN. FROM THE TELEPHONE BOARD TO THE THE TELEPHONE COMPANY TERMINATION POINT, A PULL WIRE MUST BE PLACED IN ALL TELEPHONE CONDUITS FOR PROOFING AND PULLING PURPOSES. ALSO PLACE A STAKE AT THE END OF ALL TELEPHONE ENTRANCE CONDUITS. VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO BID. SEE SHEET "E–6" FOR THE TELEPHONE BOARD LOCATION. PROVIDE A #6 COPPER GROUND WIRE FROM TELEPHONE BOARD TO BUILDING GROUNDING SYSTEM.
6. GENERAL & ELECTRICAL CONTRACTORS SHALL COORDINATE WITH, POWER & TELEPHONE COMPANIES TO BRING THE POWER & TELEPHONE SERVICES TO THE BUILDING.
7. E.C. TO PROVIDE J–BOX(ES) FOR GAS STATION CONDUITS AS REQUIRED FOR EVERY 250' OR AFTER (2) 90 DEGREES BENDS. SEAL ALL CONDUITS PER CODE. SEE ARCHITECTURAL & CIVIL DRAWINGS FOR ROUTING.
8. TYPICAL GAS STATION TRANSFORMER LOCATION. G.C. AND E.C. SHALL VERIFY REQUIREMENTS AND LOCATION WITH ARCHITECT. E.C. SHALL COORDINATE WITH POWER COMPANY FOR ALL INSTALLATION OF TRANSFORMER & ITS CONNECTION. PROVIDE GUARD POST, TRANSFORMER TRENCHING, PRIMARY CONDUIT, ETC. AS REQUIRED. MEET ALL POWER COMPANY REQUIREMENTS, INCLUDE ALL CHARGES IN BID.
9. E.C. TO PROVIDE COPPERWELD 5/8" ø X 10' LONG GROUND ROD AT THE LIGHT POLE TYP. BOND GROUND WIRES TO GROUND ROD.
10. POLE MANUFACTURER TO PROVIDE POLE ID ON THE HANDHOLE COVER. LABEL POLE NUMBER AND CIRCUIT NUMBER PER PLAN. EXAMPLE: POLE#1, H2/54,56. 2"X4" LABEL. 1/4" HIGH ENGRAVED LETTERS. COVER SHALL BE SECURED WITH TAMPER–PROOF SCREWS. E.C. TO VERIFY CIRCUIT NUMBERS PER PLAN AND ENSURE THE CORRECT INSTALLATION OF LABEL / COVER FOR EACH POLE.
11. E.C. TO SEAL UNDERGROUND CONDUITS WITHIN 10' OF ENTERING GROUND ON BOTH ENDS. SEAL POLE AND ASSOCIATED J–BOX. PROVIDE EXPLOSION–PROOF–RATED J–BOX AND OTHER ELECTRICAL DEVICES NEAR FUELING FACILITY. REFER TO NEC ARTICLE 514.
12. E.C. TO PROVIDE 1"C. DATA AND 1"C. FOR POWER FOR CAMERAS ON POLES. COORDINATE W/ POLE MANUFACTURER TO PROVIDE 3/4" HOLE @ 15' A.F.G. AND 3/4" HOLE AT 16' A.F.G. E.C. IS RESPONSIBLE TO PROVIDE AND INSTALL ALL ACCESSORIES PER DETAIL AND MAKE ALL FINAL CONNECTIONS TO POLE RECEPTACLE. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH–IN.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	NUMBER	LAMPS	MOUNT	WATT	REMARKS	COLOR
P	COOPER	GALN–SA8B–740–U–5WQ–BZ	LED	POLE	325	36'–6" ABOVE FINISHED GRADE. ROUND TAPERED FIBERGLASS/FIBERGLASS POLE (VALMONT COSTCO–150–10–36.5 POLE). NUMBER OF HEADS SHALL BE PER PLAN. SEE DETAIL SHEET SE–1. FIXTURE SHALL BE POWDER PAINTED. ELECTRO–STATIC APPLICATION POLE SHALL HAVE MIN EPA=10 FOR 150 MPH WIND.	4000K
P1	COOPER	GALN–SA6B–740–U–SL3–HSS	LED	POLE	243		
P2	COOPER	GALN–SA4B–740–U–SLR–HSS	LED	POLE	164		
P3	COOPER	GALN–SA4B–740–U–SLL–HSS	LED	POLE			

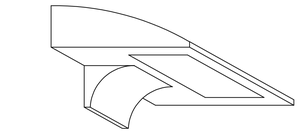


SITE PHOTOMETRIC PLAN
SCALE: 1" = 50'–0"

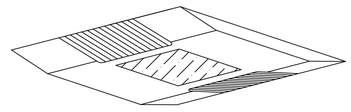


POLE DETAIL
SCALE: NTS

NOTE: PROVIDE CONCRETE J–BOX AS REQUIRED. THIS DETAIL IS FOR ELECTRICAL CONDUITS ROUTING ONLY. SEE STRUCTURAL DRAWINGS S0.2 FOR DETAILS.



TYPICAL WALL PACK DETAIL (B, B1 & B2)
SCALE: NTS



FUEL FACILITY – LED (GA)
NO SCALE

PERMIT

JOEL G. MORTENSON NUMBER PE–2024000146
PROFESSIONAL ENGINEER
12/22/2025

IDFPR # 184005536
EXP: 04/30/2027

DATE	DESCRIPTION
11/26/25	ISSUED FOR QA
12/17/25	ISSUED FOR PERMIT

PROJECT STATUS: ISSUED FOR CONSTRUCTION

T.E.C. Inc.
All rights reserved. No part of this document may be reproduced in any form or by any means without permission in writing from T.E., Inc.

T.E., INC.
830 N. RIVERSIDE DRIVE
SUITE #200, 98057
RENTON, WA 98057
PHONE: 425–970–3753
FAX: 425–970–3756

NEW WAREHOUSE
LEE'S SUMMIT, MO

COSTCO WHOLESALE

#___

TEI #: 25-346
PM: MW
CHECKED BY: JGM
ISSUED: 12/22/25

SITE LIGHTING PLAN

SE-1

C:\Users\mwidjaja\Documents_346_E_CENTRAL_2023_mwidjaja5h9M6.rvt
12/17/2025 1:55:37 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/22/2025 4:03:57

GENERAL NOTES

1. PREP AREA COLUMNS TO BE WRAPPED WITH STAINLESS STEEL FROM FLOOR TO CEILING, WHERE APPLICABLE. SEE PANEL DRAWINGS FOR ADDITIONAL DETAILS/REQUIREMENTS.
2. ALL 2'-0" CLEARANCE ABOVE NOTED EXTERIOR COOLER HEIGHT FOR STRUCTURAL STEEL.
3. STEEL C-CHANNEL BUMPERS TO BE INSTALLED IN FRONT AND/OR NEXT TO ALL REFRIGERATED CASES AND HOT CASES. SEE DETAIL 2 THIS SHEET. ISLAND BUMPERS ARE TO HAVE NO GAPS IN THE CENTER.
4. SEE COSTCO INSTALLATION SPECIFICATION FOR PROPER INSTALLATION METHODOLOGY.
5. ALL MECHANICAL AND ELECTRICAL SYSTEMS MUST MEET ALL LOCAL AND NATIONAL CODES.

SHEET NOTES

(1) EXTERIOR OF POS BOXES TO HAVE C-CHANNEL BUMPERS, CONCRETE AROUND VENT ONLY. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.

(2) INTERIOR AND EXTERIOR OF PRODUCE AND DAIRY COOLERS TO HAVE 3" X 3" ANGLE IRON. SEE ARCHITECTURE DRAWING FOR DETAILS. .

(3) NOT USED - WATER HOLDING TANK. LOCATED ON TOP OF BAKERY COOLER. INSTALL PER OEM SPECS. STRAP TO STRUCTURALLY SOUND LOCATION.

(4) PREP AREA AIR HANDLING UNITS (AHU) MOUNTED ON SUPPORT STEEL LOCATED ON TOP OF COOLER BOX. SEE R5.0 FOR DUCT DETAILS.

(5) MOUNT EVAC SYSTEM ON I-BEAM PLATFORM.

(6) BAKERY PREP TO BE ENCLOSED WITH METAL INSULATED PANELS (MIP). INSTALL STAINLESS STEEL COVE BASE FOR BAKERY FREEZER AND COOLER. SEE ARCHITECTURAL DRAWINGS DETAILS.

(7) PREP AREA ANTHONY WINDOWS TO BE INSTALLED ON LOW HEIGHT MIP WALL, SEE ARCHITECTURAL DRAWINGS FOR DETAILS.

(8) POS & BAKERY FREEZERS: HCR AIR-DOORS MODEL: PCAV, SUPPLIED BY HCR, INSTALLED BY INSULATED PANEL OEM. RC RESPONSIBLE FOR FINAL CONNECTION.

(9) SHOP-IN DAIRY & PRODUCE COOLERS: HCR AIR-CURTAIN, MODEL: HCR AC-CS. SUPPLIED BY HCR, INSTALLED BY INSULATED PANEL OEM. RC RESPONSIBLE FOR FINAL CONNECTION.

(10) RACK OEM TO PROVIDE DUAL TEMP KEY SWITCH TO CHANGE BETWEEN LOW AND MEDIUM TEMP OPERATION. SEE SHEET R7.3 FOR DETAIL.

(11) PUMP SKID: CO2 TO GLYCOL HEAT EXCHANGER (HX), LOCATED ON TOP OF COOLER BOXES. SEE R2.0 AND R5.0 FOR DETAILS.

ANTHONY PREP WINDOWS

REFRIGERATION INSTALLATION CONTRACTOR TO COORDINATE THE PREP AREA HEADER SUPPORT POST INSTALLATION WITH THE G.C. SEE SHEET R8.0 FOR DETAIL.

[1] 60" HEATED NON-SLIDING PREP WINDOWS. (REFER TO PANEL MANUFACTURER DRAWINGS FOR EXACT LOCATION).

[2] 51" HEATED NON-SLIDING PREP WINDOWS. (REFER TO PANEL MANUFACTURER DRAWINGS FOR EXACT LOCATION).

[3] HEADER OPENING HEIGHT FOR CASES AND WINDOWS IS 8' - 2 1/4".

DIAMOND PLATE / STAINLESS STEEL LEGEND

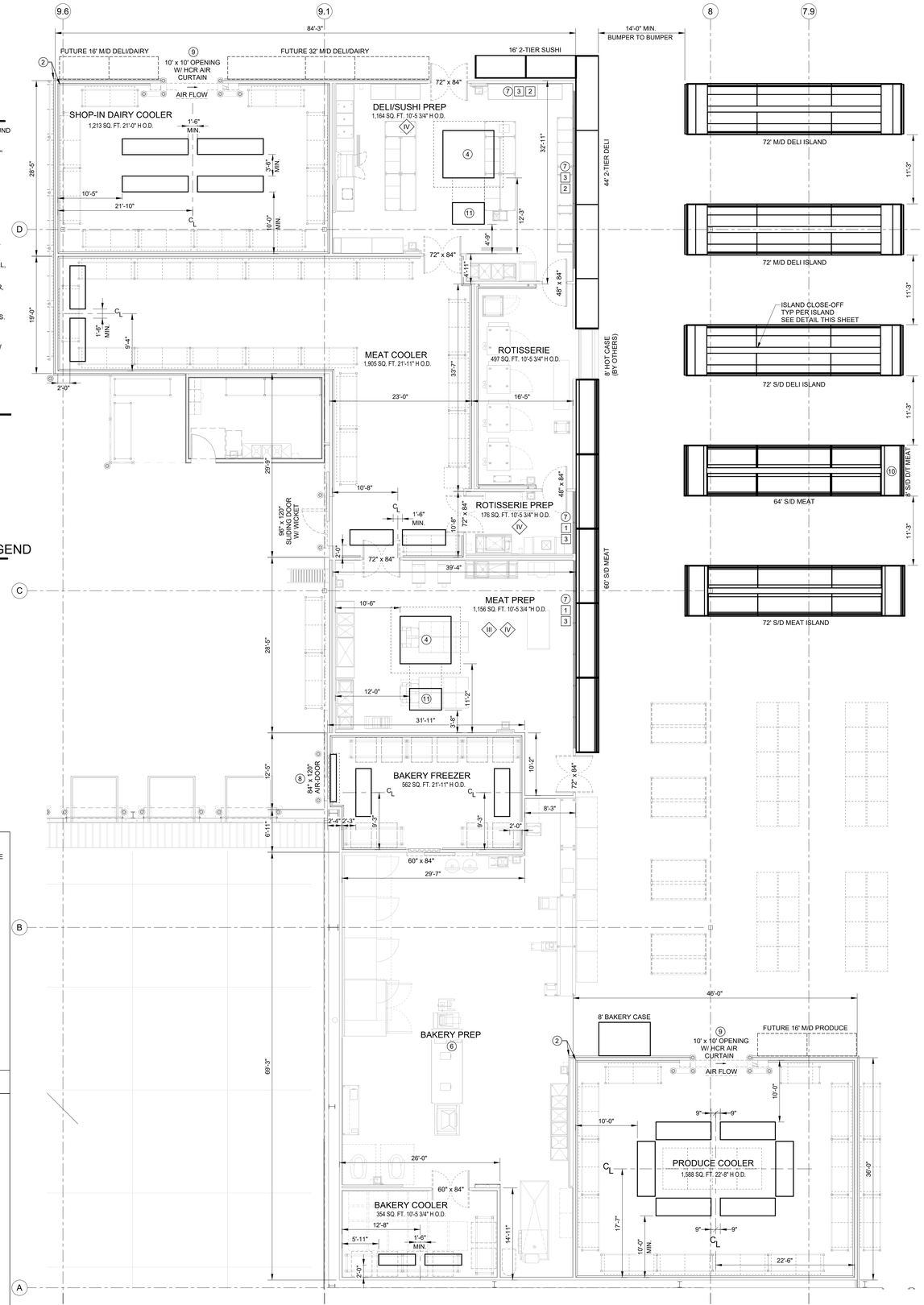
ALL DIAMOND PLATE FOR POINT OF SALES AND PREP AREAS ARE SUPPLIED BY PANEL MANUFACTURER. INSTALLED BY WALK-IN PANEL INSTALLER.

◇I DIAMOND PLATE 4' x LENGTH OF BOX END WALL. SEE PANEL DRAWINGS FOR EXACT LOCATION.

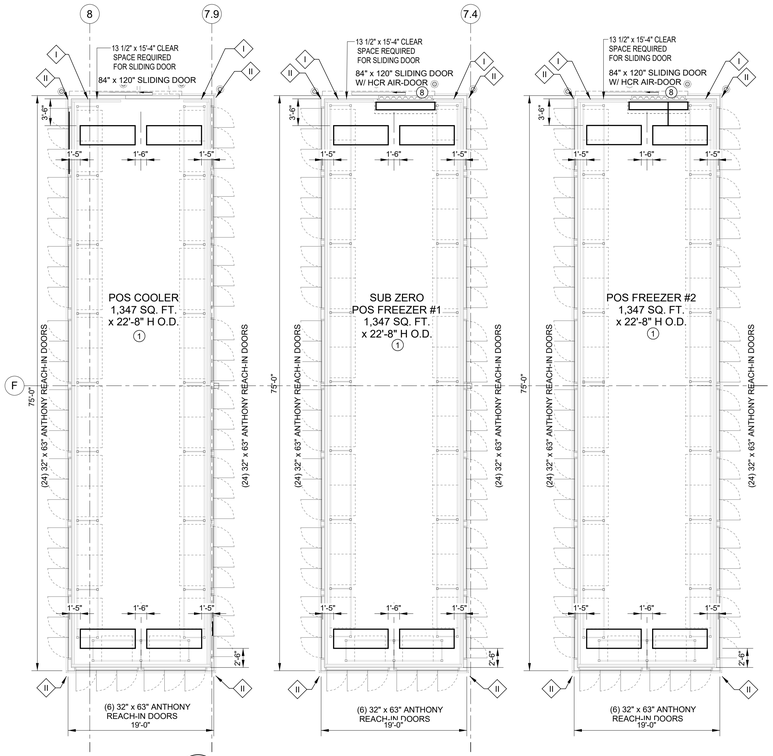
◇II 4" TALL DIAMOND PLATE CORNER GUARD SUPPLIED BY PANEL MANUFACTURER AND FIELD INSTALLED BY PANEL REFRIGERATION CONTRACTOR.

◇III STAINLESS STEEL BEHIND SKEWERS (SEE MEAT MANAGER). FIELD VERIFY SIZES.

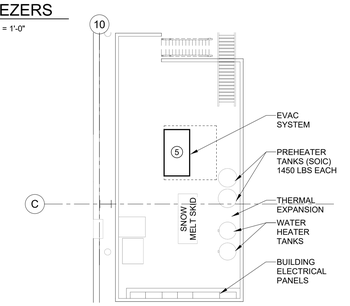
◇IV STAINLESS STEEL PANEL SKIN ON EXPOSED PANELS ON ROTISSERIE / MEAT / DELI PREP BY PANEL MANUFACTURER. FLOOR TO CEILING.



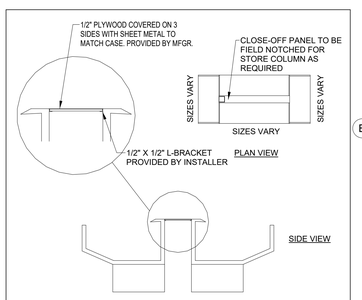
5 R1.0 FRESH LINE FLOOR PLAN
1/8" = 1'-0"



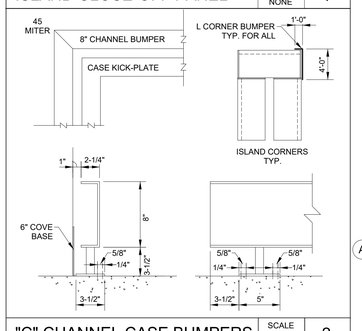
7 R1.0 POS COOLERS & FREEZERS
1/8" = 1'-0"



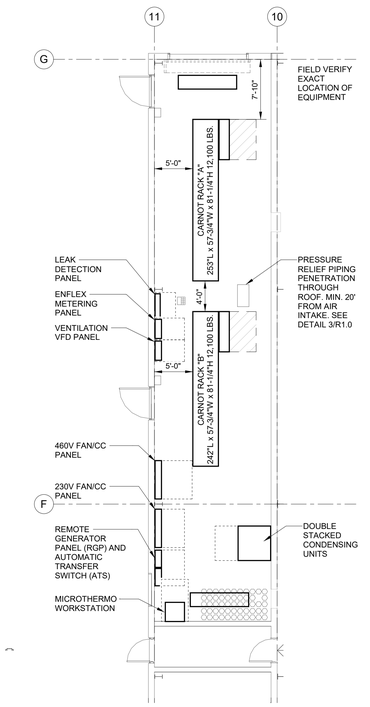
3 R1.0 RECIEVING AREA MEZZANINE
1/8" = 1'-0"



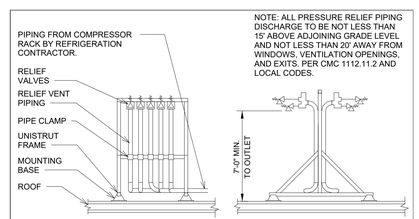
ISLAND CLOSE-OFF PANEL — SCALE: NONE — 1



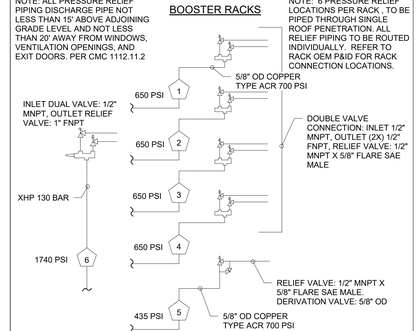
"C" CHANNEL CASE BUMPERS — SCALE: NONE — 2



6 R1.0 MECHANICAL ROOM
1/8" = 1'-0"



RACK PRESSURE RELIEF PIPING FRAME DETAIL — SCALE: NONE — 3



RACK PRESSURE RELIEF PIPING — SCALE: NONE — 4

EACH CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO FAMILIARIZE THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM THE WORK AND ENSURE THE EQUIPMENT OPERATES PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE PERMITTED DUE TO CONDITIONS RESULTING FROM FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE. REFRIGERATION CONTRACTOR TO ADHERE TO ALL EPA GUIDELINES.

Cushing Terrell.
cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

NICHOLAS P. [illegible]
NUMBER PE-2010017218
12.23.2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

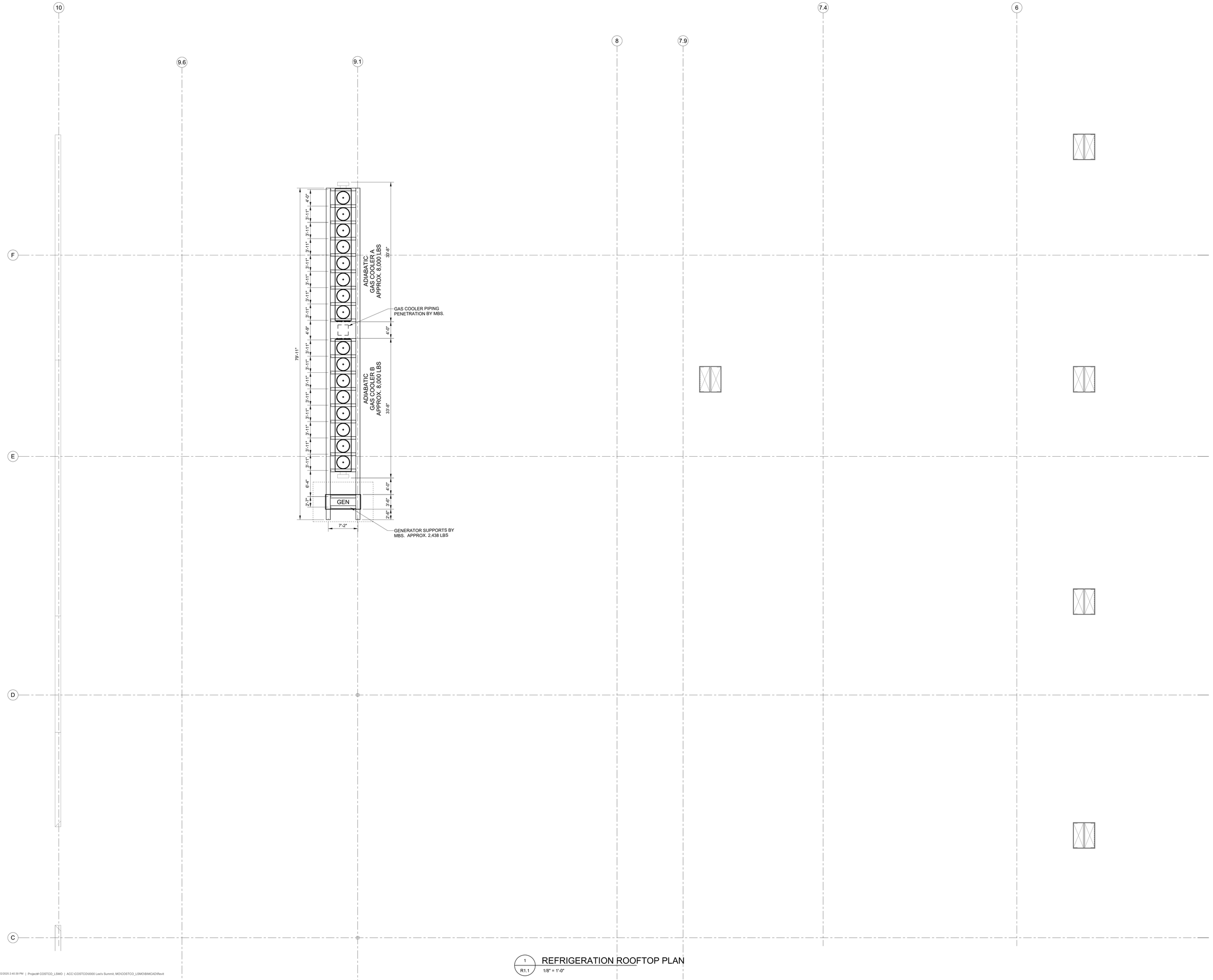
12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATION FIXTURE PLAN

R1.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/03/2026 4:03:58

Cushing Terrell.
cushingterrell.com
800.757.9522



1 / R1.1 REFRIGERATION ROOFTOP PLAN
1/8" = 1'-0"

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. HEERS
NUMBER PE-2016017218
PROFESSIONAL ENGINEER

12.23.2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATION
ROOFTOP PLAN

R1.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/26/2026 4:03:58

Cushing Terrell.

cushingterrell.com
800.757.9522

COSTCO WAREHOUSE - LEE'S SUMMIT, MO

2021 ASHRAE DATA: 0.4% DB: 95.5°F / ANNUAL MEAN DB: 99.6°F / 5yr MAX DB: 102.1°F / ALTITUDE: 997'

DESIGN INFO: DRY BULB: 100°F / WET BULB: 80°F

AL SYSTEM GROUP / R744 REFRIGERANT / -27 °F SUCTION / +35°F LIQUID

SYSTEM OVERVIEW

SYS.	SYSTEM DESCRIPTION	MANUFACTURER	MODEL	8'	10'	12'	LTH / SQFT	COIL QTY	BTU PER	TOTAL BTU LOAD	FUTURE BTU LOAD	EVAP TEMP	DESIGN AIR TEMP
A1	1/4 POS FREEZER #1	REFPLUS	EJR-08907-9-ZSP				1,347	1		62,000		-25	-15
A2	1/4 POS FREEZER #1	REFPLUS	EJR-08907-9-ZSP				1,347	1		62,000		-25	-15
A3	1/4 POS FREEZER #2	REFPLUS	EJR-08907-9-ZSP				1,347	1		55,000		-15	-5
A4	1/4 POS FREEZER #2	REFPLUS	EJR-08907-9-ZSP				1,347	1		55,000		-15	-5
A5	1/2 BAKERY FREEZER	REFPLUS	EMR-04007-2				562	1		35,000		-15	-5
A6	D/T ENDCAP	ARNEG	D2U00167	1			8		310	2,480		-15	-11
A7	SPARE												
A8	SPARE												
									TOTAL BTU:	271,480			

CONTROLS / DEFROST / PIPING

SYS.	VALVES: EXPANSION	VALVES: SUCTION	VALVES: LIQUID	PROBES: TEMP	PROBES: COIL	PROBES: SUCT	PROBES: PRESS TRANS	DEFROST: TYPE	PER DAY	TEMP (°F)	TIME (MIN)	RACK MAIN PIPE: EST. LENGTH	LIQUID	SUCTION: HORIZ.	SUCTION: RISER
A1	EEV BY OEM	CDST-7		1	1	1	1	HG	---	---	---	280	7	9	9
A2	EEV BY OEM	CDST-7		1	1	1	1	HG	---	---	---	280	7	9	9
A3	EEV BY OEM	CDST-4		1	1	1	1	HG	---	---	---	280	7	7	7
A4	EEV BY OEM	CDST-4		1	1	1	1	HG	---	---	---	280	7	7	7
A5	EEV BY OEM	CDST-4		1	1	1	1	HG	---	---	---	285	5	7	7
A6	EEV BY OEM	CDST-2		1	1	1	1	HG	1	47	25	300	5	5	4
A7		--						---	---	---	---	SPARE	--	--	--
A8		--						---	---	---	---	SPARE	--	--	--

CASE / WALK-IN ELECTRICAL

SYS.	POWER SOURCE	LIGHTS (120V) 8' (AMPS)	12' (AMPS)	TOTAL (AMPS)	DRAIN (120V)	FANS: VOLTAGE	8' (AMPS)	COIL / 12' (AMPS)	TOTAL	ELECTRIC HEAT: VOLTAGE	AMPS	MOPD
A1	460V FAN CONTROL PANEL					460V/3		4.28	4.28			
A2	460V FAN CONTROL PANEL					460V/3		4.28	4.28			
A3	460V FAN CONTROL PANEL					460V/3		4.28	4.28			
A4	460V FAN CONTROL PANEL					460V/3		4.28	4.28			
A5	230V FAN CONTROL PANEL					230V/1		11.93	11.93			
A6	STORE POWER				0.65	120V	0.22	0.63	0.22			

COMPRESSORS

COMP. #	COMPRESSOR MFR.	MODEL	HP	kW	RLA	EVAP BTU	THR	MOD
1	COPELAND	4MSLS13ME-FSD-C00	14	8.93	34.8	126,840	N/A	VFD @70 HZ
2	COPELAND	4MSLS85ME-FSD-C00	10	6.34	27.9	87,437	N/A	
3	COPELAND	4MSLS85ME-FSD-C00	10	6.34	27.9	87,437	N/A	
		SUB TOTALS:	34	21.61	90.6	301,714	N/A	
SPARE CAPACITY: 30,234 BTUH			LOAD RATIO (%):			90%		

AH SYSTEM GROUP / R744 REFRIGERANT / +17 °F SUCTION / +35°F LIQUID / +90°F GAS COOLER OUTLET

SYSTEM OVERVIEW

SYS.	SYSTEM DESCRIPTION	MANUFACTURER	MODEL	8'	10'	12'	LTH / SQFT	COIL QTY	BTU PER	TOTAL BTU LOAD	FUTURE BTU LOAD	EVAP TEMP	DESIGN AIR TEMP
A9	1/2 MEAT COOLER	REFPLUS	EKR-3407-2				1,905	2		95,650		+19	+28
A10	1/2 POS COOLER	REFPLUS	EJR-05907-9-ZSP				1,347	2		85,000		+24	+34
A11	1/2 PRODUCE COOLER	REFPLUS	LAG-4007-2				1,588	3		113,992		+25	+37
A12	1/2 DAIRY COOLER	REFPLUS	EMR-05807-2				1,213	2		117,455		+24	+34
A13	MD DELI ISLAND	ARNEG	D2U20028	6		2	72		1384	99,648		+23	+30
A14	MD DELI ISLAND	ARNEG	D2U20028	6		2	72		1384	99,648		+23	+30
A15	SD MEAT ISLAND	ARNEG	D2U00162	5		2	64		350	22,400		+23	+31
A16	1/2 BAKERY COOLER	REFPLUS	LSR-2207-2				354	1		20,000		+24	+34
A17	BAKERY CASE	BORGEN	P7508	1			8		1850	14,800		+24	+28
A18	COMPRESSOR CENTER A/C	REFPLUS	EKA-4207-2					1		84,000		+25	+45
A19	DELI/SUSHI PREP	REFPLUS	CSH-12-9				949	1		71,175		+23	+30 GLYCOL
A20	*FUTURE MD DELI/DAIRY LINEUP*	*ARNEG*	*D2U20028*	*4*		*1*	*44*		*1384*		*60,896*	*+23*	*+30*
A21	SD MEAT LINEUP	ARNEG	D2U00162			5	60		350	21,000		+23	+31
A22	SPARE												
A-HR	*FUTURE HEAT RECLAIM - AIR*												
									TOTAL BTU:	844,768			

NOTES:

CONTROLS / DEFROST / PIPING

SYS.	VALVES: EXPANSION	VALVES: SUCTION	VALVES: LIQUID	PROBES: TEMP	PROBES: COIL	PROBES: SUCT	PROBES: PRESS TRANS	DEFROST: TYPE	PER DAY	TEMP (°F)	TIME (MIN)	RACK MAIN PIPE: EST. LENGTH	LIQUID	SUCTION: HORIZ.	SUCTION: RISER
A9	EEV BY OEM	CDST-7		3	3	3	3	HG	---	---	---	250	5	7	7
A10	EEV BY OEM	CDST-4		2	2	2	2	HG	---	---	---	165	7	7	7
A11	EEV BY OEM	CDST-7		3	3	3	3	HG	---	---	---	395	7	9	9
A12	EEV BY OEM	CDST-7		2	2	2	2	HG	---	---	---	230	7	9	7
A13	EEV BY OEM	CDST-7		8				HG	6	45	20	290	7	9	7
A14	EEV BY OEM	CDST-7		8				HG	6	45	20	290	7	9	7
A15	EEV BY OEM	CDST-2		7				HG	6	45	20	310	5	5	5
A16	EEV BY OEM	CDST-2		1	1	1	1	HG	---	---	---	400	5	7	5
A17	EEV BY OEM	CDST-2		1				HG	---	---	---	380	5	5	5
A18	EEV BY OEM	CDST-4		1	1	1	1	OT	---	---	---	70	5	5	5
A19	DX TO GLYCOL HX PUMP SKID 40 GPM	CDST-4		1	1	1	1	HG	---	---	---	230	5	7	5
A20	*EEV BY OEM*	*CDST-4*		*5*				*HG*	*6*	*45*	*20*	*270*	*5*	*7*	*5*
A21	EEV BY OEM	CDST-2		5				HG	6	45	20	290	5	5	5
A22		--						---	---	---	---	SPARE	--	--	--
A-HR									---	---	---	*90*	*13 SUPPLY / RETURN*		

CASE / WALK-IN ELECTRICAL

SYS.	POWER SOURCE	LIGHTS (120V) 8' (AMPS)	12' (AMPS)	TOTAL (AMPS)	DRAIN (120V)	FANS: VOLTAGE	8' (AMPS)	COIL / 12' (AMPS)	TOTAL	ELECTRIC HEAT: VOLTAGE	AMPS	MOPD
A9	230V FAN CONTROL PANEL					240V/1		9.1	18.2			
A10	460V FAN CONTROL PANEL					460V/3		4.28	8.56			
A11	230V FAN CONTROL PANEL					240V/1		3.41	10.23			
A12	230V FAN CONTROL PANEL					240V/1		11.93	23.86			
A13	STORE POWER	0.33	0.5	2.98		120V	1.84	2.76	16.56			
A14	STORE POWER	0.33	0.5	2.98		120V	1.84	2.76	16.56			
A15	STORE POWER					120V	0.22	0.33	1.76			
A16	230V FAN CONTROL PANEL					240V/1		2.76	2.76			
A17	STORE POWER	2.4		2.4		120V	2.4	2.4	2.40			
A18	230V FAN CONTROL PANEL					240V/1		9.1	9.1			
A19	STORE POWER					SEE ANCILLARY EQUIPMENT						
A20	*STORE POWER*	*0.74*	*1.13*	*4.09*		*120V*	*0.66*	*1.24*	*3.88*			
A21	STORE POWER					120V	0.22	0.33	1.65			

COMPRESSORS

COMP. #	COMPRESSOR MFR.	MODEL	HP	kW	RLA	EVAP BTU	THR	MOD
4	COPELAND	4MTLS28ME-FSD-C00	34	41.46	69.9	236,821	465,340	VFD @60 HZ
5	COPELAND	4MTLS28ME-FSD-C00	34	41.46	69.9	236,821	465,340	
6	COPELAND	4MTLS28ME-FSD-C00	34	41.46	69.9	236,821	465,340	
7	COPELAND	4MTLS28ME-FSD-C00	34	41.46	69.9	236,821	465,340	
8	COPELAND	4MTLS22ME-FSD-C00	29	34.32	58.3	185,608	364,705	
		SUB TOTALS:	165	200.169	337.9	1,132,893	2,226,065	
SPARE CAPACITY: 288,125 BTUH			LOAD RATIO (%):			75%		

BL SYSTEM GROUP / R744 REFRIGERANT / -27 °F SUCTION / +35°F LIQUID

SYSTEM OVERVIEW

SYS.	SYSTEM DESCRIPTION	MANUFACTURER	MODEL	8'	10'	12'	LTH / SQFT	COIL QTY	BTU PER	TOTAL BTU LOAD		EVAP TEMP	DESIGN AIR TEMP
B-1	1/4 POS FREEZER #1	REFPLUS	EJR-08907-9-ZSP				1,347	1		62,000		-25	-15
B-2	1/4 POS FREEZER #1	REFPLUS	EJR-08907-9-ZSP				1,347	1		62,000		-25	-15
B-3	1/4 POS FREEZER #2	REFPLUS	EJR-08907-9-ZSP				1,347	1		55,000		-15	-5
B-4	1/4 POS FREEZER #2	REFPLUS	EJR-08907-9-ZSP				1,347	1		55,000		-15	-5
B-5	1/2 BAKERY FREEZER	REFPLUS	EMR-04007-2				562	1		35,000		-15	-5
B-6	SPARE												
B-7	SPARE												
B-8	SPARE												
									TOTAL BTU:	269,000			

CONTROLS / DEFROST / PIPING

SYS.	VALVES: EXPANSION	VALVES: SUCTION	VALVES: LIQUID	PROBES: TEMP	PROBES: COIL	PROBES: SUCT	PROBES: PRESS TRANS	DEFROST: TYPE	PER DAY	TEMP (°F)	TIME (MIN)	RACK MAIN PIPE: EST. LENGTH	LIQUID	SUCTION: HORIZ.	SUCTION: RISER
B-1	EEV BY OEM	CDST-7		1	1	1	1	HG	---	---	---	280	7	9	9
B-2	EEV BY OEM	CDST-7		1	1	1	1	HG	---	---	---	280	7	9	9
B-3	EEV BY OEM	CDST-4		1	1	1	1	HG	---	---	---	280	7	7	7
B-4	EEV BY OEM	CDST-4		1	1	1	1	HG	---	---	---	280	7	7	7
B-5	EEV BY OEM	CDST-4		1	1	1	1	HG	---	---	---	285	5	7	7
B-6		--						---	---	---	---	--	--	--	--
B-7		--						---	---	---	---	--	--	--	--
B-8		--						---	---	---	---	--	--	--	--

CASE / WALK-IN ELECTRICAL

SYS.	POWER SOURCE	LIGHTS (120V) 8' (AMPS)	12' (AMPS)	TOTAL (AMPS)	DRAIN (120V)	FANS: VOLTAGE	8' (AMPS)	COIL / 12' (AMPS)	TOTAL	ELECTRIC HEAT: VOLTAGE	AMPS	MOPD
B-1	460V FAN CONTROL PANEL					460V/3		4.28	4.28			
B-2	460V FAN CONTROL PANEL					460V/3		4.28	4.28			
B-3	460V FAN CONTROL PANEL					460V/3		4.28	4.28			
B-4	460V FAN CONTROL PANEL					460V/3		4.28	4.28			
B-5	230V FAN CONTROL PANEL					230V/1		11.93	11.93			

COMPRESSORS

COMP. #	COMPRESSOR MFR.	MODEL	HP	kW	RLA	EVAP BTU	THR	MOD
1	COPELAND	4MSLS13ME-FSD-C00	14	8.93	34.8	126,840	N/A	VFD @70 HZ
2	COPELAND	4MSLS85ME-FSD-C00	10	6.34	27.9	87,437	N/A	
3	COPELAND	4MSLS85ME-FSD-C00	10	6.34	27.9	87,437	N/A	
		SUB TOTALS:	34	21.61	90.6	301,714	N/A	
SPARE CAPACITY: 32,714 BTUH			LOAD RATIO (%):			89%	N/A	

BH SYSTEM GROUP / R744 REFRIGERANT / +17 °F SUCTION / +35°F LIQUID / +90°F GAS COOLER OUTLET

SYSTEM OVERVIEW

SYS.	SYSTEM DESCRIPTION	MANUFACTURER	MODEL	8'	10'	12'	LTH / SQFT	COIL QTY	BTU PER	TOTAL BTU LOAD		EVAP TEMP	DESIGN AIR TEMP
B9	1/2 MEAT COOLER	REFPLUS	EKR-3407-2				1,905	2		95,650		+19	+28
B10	1/2 POS COOLER	REFPLUS	EJR-05907-9-ZSP				1,347	2		85,000		+24	+34
B11	1/2 PRODUCE COOLER	REFPLUS	LAG-4007-2				1,588	3		113,992		+25	+37
B12	1/2 DAIRY COOLER	REFPLUS	EMR-05807-2				1,213	2		117,455		+24	+34
B13	MD DELI ISLAND	ARNEG	D2U20028	6		2	72		1384	99,648		+23	+30
B14	SD MEAT ISLAND	ARNEG	D2U20028	6		2	72		350	25,200		+23	+31
B15	2DK DELI LINEUP	ARNEG	D2U00178	1		3	44		800	35,200		+23	+31
B16	1/2 BAKERY COOLER	REFPLUS	LSR-2207-2				354	1		20,000		+24	+34
B17	2DK SUSHI LINE UP	ARNEG	D2U00178	2			16		800	12,800		+23	+31
B18	COMPRESSOR CENTER A/C	REFPLUS	EKA-4207-2					1		84,000		+25	+45
B19-A	MEAT PREP	REFPLUS	CSH-12-9					1		73,775		+23	+30 GLYCOL
B19-B	ROTISSERIE PREP									15,150			
B20	*FUTURE MD PRODUCE*	*ARNEG*	*D2U20028*	*2*			*16*	*1*	*1384*		*22,144*	*+23*	*+30*
B21	SPARE												
B22	SPARE												
B-HR	*FUTURE HEAT RECLAIM - AIR*												
									TOTAL BTU:	777,870			

NOTES:

CONTROLS / DEFROST / PIPING

SYS.	VALVES: EXPANSION	VALVES: SUCTION	VALVES: LIQUID	PROBES: TEMP	PROBES: COIL	PROBES: SUCT	PROBES: PRESS TRANS	DEFROST: TYPE	PER DAY	TEMP (°F)	TIME (MIN)	RACK MAIN PIPE: EST. LENGTH	LIQUID	SUCTION: HORIZ.	SUCTION: RISER
B9	EEV BY OEM	CDST-7		3	3	3	3	HG	---	---	---	250	5	7	7
B10	EEV BY OEM	CDST-4		2	2	2	2	HG	---	---	---	165	7	7	7
B11	EEV BY OEM	CDST-7		3	3	3	3	HG	---	---	---	395	7	9	9
B12	EEV BY OEM	CDST-7		2	2	2	2	HG	---	---	---	230	7	9	7
B13	EEV BY OEM	CDST-7		8				HG	6	45	20	290	7	9	7
B14	EEV BY OEM	CDST-2		8				HG	6	45	20	310	5	5	5
B15	EEV BY OEM	CDST-4		4				HG	6	47	20	265	5	5	5
B16	EEV BY OEM	CDST-2		1	1	1	1	HG	---	---	---	400	5	7	5
B17	EEV BY OEM	CDST-2		2				HG	6	47	20	225	5	5	5
B18	EEV BY OEM	CDST-4		1	1	1	1	OT	---	---	---	70	5	5	5
B19-A	DX TO GLYCOL HX PUMP SKID 40 GPM	CDST-4		1	1	1	1	---	---	---	---	290	5	7	5
B19-B				1				---	---	---	---				
B20		*CDST-2*		*5*				*HG*	*6*	*45*	*20*	*270*	*5*	*7*	*5*
B21		--						---	---	---	---	SPARE	--	--	--
B22		--						---	---	---	---	SPARE	--	--	--
B-HR									---	---	---	*210*	*13 SUPPLY / RETURN*		

CASE / WALK-IN ELECTRICAL

SYS.	POWER SOURCE	LIGHTS (120V) 8' (AMPS)	12' (AMPS)	TOTAL (AMPS)	DRAIN (120V)	FANS: VOLTAGE	8' (AMPS)	COIL / 12' (AMPS)	TOTAL	ELECTRIC HEAT: VOLTAGE	AMPS	MOPD
B9	230V FAN CONTROL PANEL					240V/1		9.1	18.2			
B10	460V FAN CONTROL PANEL					460V/3		4.28	8.56			
B11	230V FAN CONTROL PANEL					240V/1		3.41	10.23			
B12	230V FAN CONTROL PANEL					240V/1		11.93	23.86			
B13	STORE POWER	0.33	0.5	2.98		120V	1.84	2.76	16.56			
B14	STORE POWER					120V	0.22	0.33	1.98			
B15	STORE POWER	0.5	0.77	2.81		120V	1.2	1.5	5.7			
B16	230V FAN CONTROL PANEL					240V/1		2.76	2.76			
B17	STORE POWER	0.5	0.77	1		120V	1.2	1.5	2.4			
B18	230V FAN CONTROL PANEL					240V/1		9.1	9.1			
B19-A / B19-B	STORE POWER					SEE ANCILLARY EQUIPMENT						
B20	*STORE POWER*	*0.33*	*0.5*	*2.98*		*120V*	*1.84*	*2.76*				

COMPRESSORS

COMP. #	COMPRESSOR MFR.	MODEL	HP	kW	RLA	EVAP BTU	THR	MOD
4	COPELAND	4MTLS28ME-FSD-C00	34	41.46	69.9	236,821	465,340	VFD @60 HZ
5	COPELAND	4MTLS28ME-FSD-C00	34	41.46	69.9	236,821	465,340	
6	COPELAND	4MTLS28ME-FSD-C00	34	41.46	69.9	236,821	465,340	
7	COPELAND	4MTLS28ME-FSD-C00	34	41.46	69.9	236,821	465,340	
8	COPELAND	4MTLS22ME-FSD-C00	29	34.32	58.3	185,608	364,705	
		SUB TOTALS:	165	200.169	337.9	1,132,893	2,226,065	
SPARE CAPACITY: 355,023 BTUH			LOAD RATIO (%):			69%		

C SYSTEM GROUP / R454C REFRIGERANT / +22 °F SUCTION / +110°F CONDENSING / +105°F LIQUID / +50°F SUCTION GAS TEMP

SYSTEM OVERVIEW

SYS.	SYSTEM DESCRIPTION	MANUFACTURER	MODEL	8'	10'	12'	LTH / SQFT	COIL QTY	BTU PER	TOTAL BTU LOAD		EVAP TEMP	DESIGN AIR TEMP
C1	FOOD SERVICE	TRENTON	TPLP214MAS1E							10,850		+24	+34
									TOTAL BTU:	10,850			

CONTROLS / DEFROST / PIPING

SYS.	VALVES: EXPANSION	VALVES: SUCTION	VALVES: LIQUID	PROBES: TEMP	PROBES: DEFROST	DEFROST: TYPE	PER DAY	TEMP (°F)	TIME (MIN)	RACK MAIN PIPE: EST. LENGTH	LIQUID	SUCTION: HORIZ.	SUCTION: RISER
C1	TXV BY OEM		BY OEM	1	1	OT	---	---	---		4	7	7

CASE / WALK-IN ELECTRICAL

SYS.	POWER SOURCE	LIGHTS (120V) 8' (AMPS)	12' (AMPS)	TOTAL (AMPS)	DRAIN (120V)	FANS: VOLTAGE	8' (AMPS)	COIL / 12' (AMPS)	TOTAL	ELECTRIC HEAT: VOLTAGE	AMPS	MOPD
C1	STORE POWER					240V/1		2.3				

CONDENSING UNIT

CU #	MFR.	MODEL	VOLTAGE	kW	MCA	EVAP BTU
1	TRENTON	TEZA025H9S2E	240V/1	4.4	24.6	15,760
		SUB TOTALS:		4.4	24.6	15,760
SPARE CAPACITY: 15,760 BTUH			LOAD RATIO (%):			69%

D SYSTEM GROUP / R454C REFRIGERANT / +22 °F SUCTION / +110°F CONDENSING / +105°F LIQUID / +50°F SUCTION GAS TEMP

SYSTEM OVERVIEW

SYS.	SYSTEM DESCRIPTION	MANUFACTURER	MODEL	8'	10'	12'	LTH / SQFT	COIL QTY	BTU PER	TOTAL BTU LOAD		EVAP TEMP	DESIGN AIR TEMP
D1	FOOD SERVICE	TRENTON	TPLP214MAS1E							10,850		+24	+34
									TOTAL BTU:	10,850			

NOTES: A2L TRENTON CONDENSER UNIT PACKAGE Q & SMARTSPEED OPTION

CONTROLS / DEFROST / PIPING

SYS.	VALVES: EXPANSION	VALVES: SUCTION	VALVES: LIQUID	PROBES: TEMP	PROBES: DEFROST	DEFROST: TYPE	PER DAY	TEMP (°F)	TIME (MIN)	RACK MAIN PIPE: EST. LENGTH	LIQUID	SUCTION: HORIZ.	SUCTION: RISER
D1	TXV BY OEM		BY OEM	1	1	OT	---	---	---		4	7	7

CASE / WALK-IN ELECTRICAL

SYS.	POWER SOURCE	LIGHTS (120V) 8' (AMPS)	12' (AMPS)	TOTAL (AMPS)	DRAIN (120V)	FANS: VOLTAGE	8' (AMPS)	COIL / 12' (AMPS)	TOTAL	ELECTRIC HEAT: VOLTAGE	AMPS	MOPD
D1	STORE POWER					240V/1		2.3				

CONDENSING UNIT

CU #	MFR.	MODEL	VOLTAGE	kW	MCA	EVAP BTU
1	TRENTON	TEZA025H9S2E	240V/1	4.4	24.6	15,760
		SUB TOTALS:		4	24.6	15,760
SPARE CAPACITY: 15,760 BTUH			LOAD RATIO (%):			69%

RACK SUMMARY (A)

HP: 199
THR (BTUH): 2,226,065
VOLTAGE: 460/3/60
RLA: 428.5
MCA: 458
MOPD: 500 A
SIZE (LxWxH): 294-1/4" x 73-1/4" x 84-3/4"
WEIGHT (LBS): 16,250 LBS
120V CONTROL (MCA/MOPD): (16 / 20 A)
120V VESSEL HEATER (MCA/MOPD): (16 / 20 A)
MAIN CONTROLLER: MT 700 SERIES

AIR HEAT RECLAIM
MODEL: SEE A-HR
AVALIABLE BTUS: 556,516
OEM TO INCLUDE STUB AND COMPONENTS FOR FUTURE AIR HEAT RECLAIM.

GAS COOLER (A)

MANUFACTURER: GUNTNER
MODEL: GGFW 090.2A08/6LA-E257L/06P.M
TYPE: ADIABATIC
FANS: 8
FPI: 10
OUTLET TEMP: 90°F
DRY SWITCH POINT: TBD
DESIGN CAPACITY (BTUH): 2,782,000
EXCESS CAPACITY (BTUH): 555,935
EXCESS CAPACITY (%): 25.0
ALTITUDE FACTOR: 1.00
VOLTAGE: 460/3/60
MCA / MOPD: 32.18 / 35 A
SIZE (LxWxH): 423-3/4" x 56-1/8" x 68-5/8"
WEIGHT (LBS): 8,000
DISCHARGE LINE (130 BAR COPPER): 2-1/8"
DRAIN LINE (130 BAR COPPER): 2-1/8"

RACK SUMMARY (B)

HP: 199
THR: 2,226,065
VOLTAGE: 460/3/60
RLA: 428.5
MCA: 458
MOPD: 500 A
SIZE (LxWxH): 294-1/4"x73-1/4"x84-3/4"
WEIGHT (LBS): 16,250 LBS
120V CONTROL (MCA/MOPD): (16 / 20 A)
120V VESSEL HEATER (MCA/MOPD): (16 / 20 A)
MAIN CONTROLLER: MT 700 SERIES

AIR HEAT RECLAIM
MODEL: SEE B-HR
AVALIABLE BTUS: 556,516
OEM TO INCLUDE STUB AND COMPONENTS FOR FUTURE AIR HEAT RECLAIM.

WATER HEAT RECLAIM
MODEL: TS-120
QUANTITY: 2
TANK CAPACITY: 114 GALLONS EACH
AVALIABLE BTUS: 80,000 / HR
WEIGHT: 427 LBS
SIZE: 30-3/8" Ø x 67" H

GAS COOLER (B)

MANUFACTURER: GUNTNER
MODEL: GGFW 090.2A08/6LA-E257L/06P.M
TYPE: ADIABATIC
FANS: 8
FPI: 10
OUTLET TEMP: 90°F
DRY SWITCH POINT: TBD
DESIGN CAPACITY (BTUH): 2,782,000
EXCESS CAPACITY (BTUH): 555,935
EXCESS CAPACITY (%): 25.0
ALTITUDE FACTOR: 1.00
VOLTAGE: 460/3/60
MCA / MOPD: 32.18 / 35 A
SIZE (LxWxH): 423-3/4" x 56-1/8" x 68-5/8"
WEIGHT (LBS): 8,000
DISCHARGE LINE (130 BAR COPPER): 2-1/8"
DRAIN LINE (130 BAR COPPER): 2-1/8"

ANCILLARY EQUIPMENT

NOTE: SEE RE PLANS FOR TOTAL LOADS AND QUANTITIES

DAIRY/PRODUCE AIR DOORS
MANUFACTURER / MODEL: HCR / AC-CS
230V/3PH
MCA: 8.6 / MOPD: 15

POS/BAKERY FREEZER AIR DOOR
MANUFACTURER / MODEL: HCR / PCAV-EH
POWER: 480V/3PH, 12 MCA, 20 MOPD
CONTROLS: 120V/1PH, 5 MCA, 20 MOPD

FREEZER DOOR HEATER
POWER: 120V, 10A EACH

HEATED PRESSURE RELIEF PORT
MODEL: KASON
POWER: 120V, 0.46A EACH

POS FREEZER REACH-IN DOOR HEATERS
MANUFACTURER: ANTHONY
POWER: 120V
2 DOOR FRAME: 1.44 AMPS
3 DOOR FRAME: 1.94 AMPS
4 DOOR FRAME: 2.45 AMPS

POS COOLER REACH-IN DOOR HEATERS
MANUFACTURER: ANTHONY
POWER: 120V
2 DOOR FRAME: 0.53 AMPS
3 DOOR FRAME: 0.76 AMPS
4 DOOR FRAME: 0.99 AMPS

POS COOLER/FREEZER MULLION LIGHTS
MANUFACTURER: ANTHONY
POWER: 120V
2 DOOR FRAME: 0.25 AMPS
3 DOOR FRAME: 0.37 AMPS
4 DOOR FRAME: 0.50 AMPS

ANTHONY PREP WINDOWS
MODEL: 1963
POWER: 120V, 3.9A EACH
(6) SECTIONS AT 3.9A EACH. RC TO SUPPLY POWER PER RE PLANS

STAND-BY CONDENSING UNITS
KEEPRITE KEZA040H8-IT3D
REFRIGERANT: R448A
QTY: 1 PER RACK (DOUBLE-STACKED)
CAPACITY (BTUH): 36,360
SUCTION TEMP (°F): 24.5
208-230V/3PH/60
MCA: 27.7 / MOPD: 45
SIZE: 43-7/8"L x 32-7/8"W x 30-3/8"H
WEIGHT: 390 LBS
SUCTION LINE SIZE: 1-1/8
LIQUID LINE SIZE: 1/2
CONDENSING UNITS INTENDED FOR REFRIGERANT CHARGE RELEASE PREVENTION
DUAL POWER PROVIDED FROM STORE PANEL AND STAND-BY GENERATOR, THROUGH TRANSFER SWITCH.

STAND-BY GENERATOR
MANUFACTURER / MODEL: KOHLER / KG45
QUANTITY: 1
FUEL SOURCE: NATURAL GAS
GAS LOAD: 805 SCFH
AVALIABLE KW: 45
WEIGHT: 2,438 LBS MAX
SIZE: 100.99"L x 42.41"W x 60.26"H
GENERATOR IS INTENDED FOR NON-EMERGENCY USE

REMOTE GENERATOR PANEL (RGP):
TRANSFER SWITCH & GENERATOR PANEL
208V/3PH, 156 MCA / 175 MOPD
ATS BY OWNER / GENERATOR PANEL BY OEM
SEE RE PLANS FOR DETAILS

DRAIN LINE HEAT TAPE
POWER: 120V, 6W/FT, 16A MAX

460V FAN CONTROL PANEL
POWER: 460V/3, 52 MCA, 70 MOPD
CONTROL: 120V, 16 MCA, 20 MOPD
SIZE: 72"H x 60"W x 12"D

230V FAN CONTROL PANEL
POWER: 230V/3, 140 MCA, 175 MOPD
CONTROL: 120V, 16 MCA, 20 MOPD
EMS POWER: 120V, 3MCA, 15MOPD FROM 460V FAN CONTROL PANEL
SIZE: 72"H x 72"W x 12"D

EVAC VACCUUM CONDENSATE PUMP
MODEL: L235-40-HV
208V/3PH
MCA: 28.75 / MOPD: 40 (POWERED FROM RGP)
SIZE: 72.25"L X 42.19"W X 71.35"H
WEIGHT: 2,870 LBS

GAS COOLER POWER AND CONTROLS
FOR EACH AIR COOLED CONDENSER PULL & TERMINATE THE FOLLOWING CABLES TO THEIR RESPECTIVE RACKS. ALSO SEE REMOTE CONDENSER SECTION ON THIS LEGEND
(A) 16 GA. TWISTED PAIR NON-SHIELDED CABLE (NETWORK)
(B) 22 GA. 3 CONDUCTORS CABLE FROM THE DROP LEG PRESSURE TRANSDUCER TO INPUT.
(C) 22 GA. 2 CONDUCTORS CABLE FROM DROP LEG TEMP SENSOR OR INSTALL ONE AT THE CONDENSER TO INPUT
(D) 10K OHM @ 77DF TYPE 2 SENSORS. SHOULD BE UNDER THE FIRST FAN ON THE HEADER SIDE ON INPUT (OUTSIDE AIR)

AIR HANDLING UNITS
REFPLUS CSH-12-9
SUPPLY AIR TEMP: +35°F
RETURN AIR TEMP: +50°F
TOTAL CAPACITY (BTUH): 92,469
TOTAL CFM: 6,300
FAN POWER: 460V/3PH, 10.5 FLA, 20 MOPD
RE-HEAT POWER: 460V/3PH, 38 FLA, 50 MOPD
SIZE: 99"L X 92"W X 44"H
APPROXIMATE WEIGHT: 3,000 LBS
AHU UV LIGHT: 120V, 2A SEPARATE POWER

GLYCOL PUMP SKIDS
GYLCOL TEMP: +30°F
GYLCOL GPM: 40
POWER/CONTROL: 120V, 8 MCA, 15 MOPD
SIZE: 58"L X 32"W X 45-3/4"H
WEIGHT: 675 LBS

LEAK DETECTION ALARM PANEL
MANUFACTURER: MICROTHERMO
POWER: 120V, 16 MCA, 20 MOPD

PIPE LENGTH SUMMARY (TYPE K)

ESTIMATED LENGTH OF 1/2" PIPE (FT):	30
ESTIMATED LENGTH OF 5/8" PIPE (FT):	7790
ESTIMATED LENGTH OF 7/8" PIPE (FT):	9580
ESTIMATED LENGTH OF 1-1/8" PIPE (FT):	3420
ESTIMATED LENGTH OF 1-3/8" PIPE (FT):	0
ESTIMATED LENGTH OF 1-5/8" PIPE (FT):	0
ESTIMATED LENGTH OF 2-1/8" PIPE (FT):	0
ESTIMATED LENGTH OF 2-5/8" PIPE (FT):	0
ESTIMATED LENGTH OF 3-1/8" PIPE (FT):	0
TOTAL LENGTH OF PIPE (FT):	20,820

REVISION SCHEDULE

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. DOHERTY
NUMBER PE-2016017218
PROFESSIONAL ENGINEER

12.23.2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

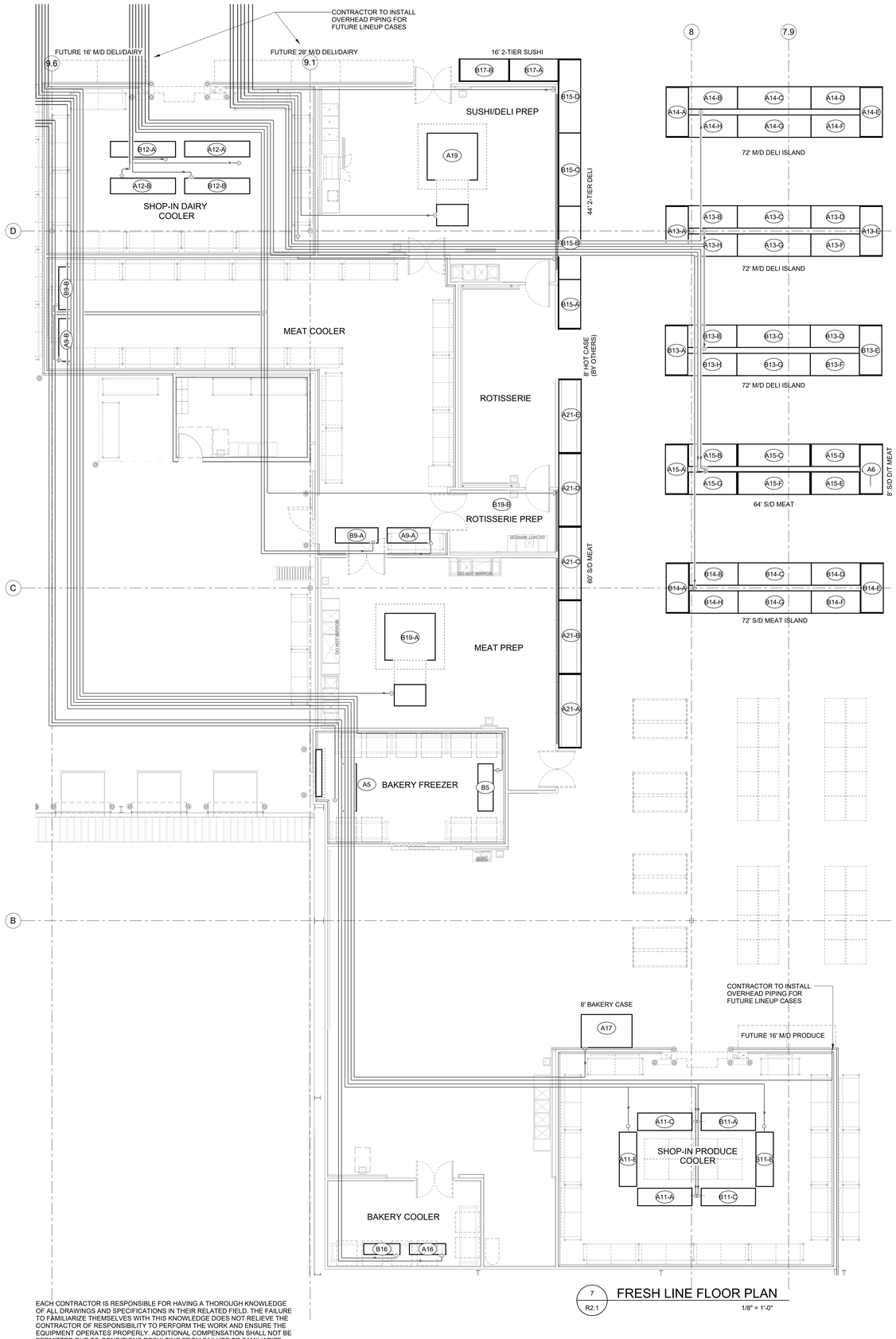
PERMIT

12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

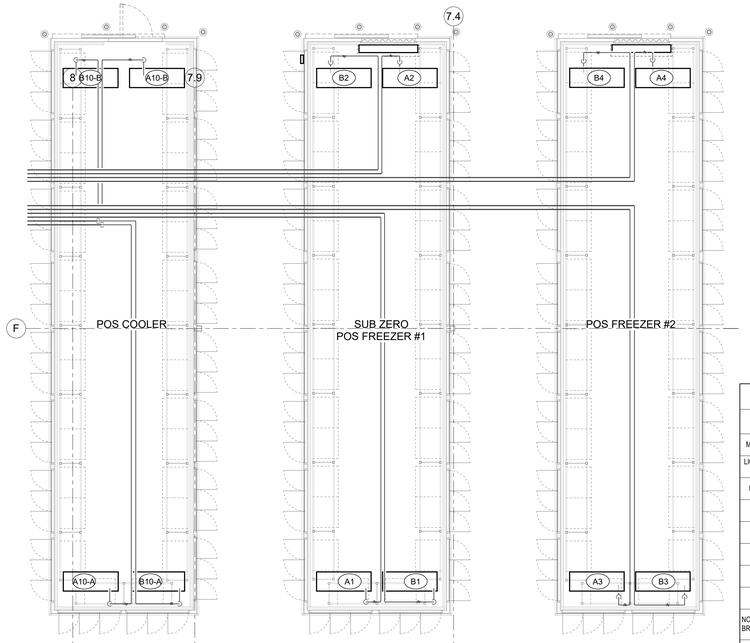
REFRIGERATION
SCHEDULE

R2.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:58



7 R2.1 FRESH LINE FLOOR PLAN
1/8" = 1'-0"



9 R2.1 POS COOLERS & FREEZERS
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO COSTCO PIPING INSTALLATION SPECIFICATIONS FOR PROPER INSTALLATION OF ALL PIPING.
2. PIPING INSTALLATION MUST COMPLY WITH ALL LOCAL AND NATIONAL CODES.
3. A SINGLE LINE REPRESENTS BOTH LIQUID AND SUCTION PIPING FOR EACH SYSTEM. LINE SPACING ACCOUNTS FOR BOTH PIPE RUNS WITH INSULATION AND SADDLES.
4. SEE PIPE SIZING ON R2.0 LEGEND.
5. CASE/ COIL OEM TO CONFIRM, RACK OEM, METHOD OF HG DEFROST BEFORE ORDERING EQUIPMENT.
6. BALL VALVES WITH INTEGRAL PRESSURE RELIEF TO BE INSTALLED AT COILS ON ALL MULTI-CIRCUIT SYSTEMS. INSTALL SPORLAN EBV(T)-PR (OR EQUIVALENT) ON BOTH LIQUID AND SUCTION SIDE OF COILS.
7. BALL VALVES WITH INTEGRAL PRESSURE RELIEF TO BE FACTORY INSTALLED IN EACH CASE OF MULTI-CASE SYSTEMS.

LEGEND

- (#) REFRIGERATION SYSTEM
- OVERHEAD DX LINE
- (#) PIPING RISER/ DROP
- UNIT CONNECTION
- (#) LINE SIZE CALLOUT
- BALL VALVE W/ INTEGRAL PRESSURE RELIEF

REFRIGERATION PIPING SPECIFICATIONS

PIPING SECTION	MAX OPERATING PRESSURE PSI (BAR)	MAX OPERATING TEMP F (C)	PIPE MATERIAL
MT DISCHARGE TO HPV INLET	1740 (120)	+320 (+160)	130 BAR RATED TUBES MUELLER XHP
LIQUID/ VAPOR SEPARATOR TO EEV	655 (45)	+51 (+10.5)	700 PSI STREAMLINE RATED TYPE "K"
LIQUID/ VAPOR SEPARATOR	655 (45)	+51 (+10.5)	
MTSUCTION	655 (45)	+51 (+10.5)	
MT LIQUID	655 (45)	+51 (+10.5)	
LT SUCTION	435 (30)	+20 (-6.6)	
LT LIQUID	655 (45)	+51 (+10.5)	
INTERCOOLER	655 (45)	+51 (+10.5)	

NOTE: CONNECTION OF XHP COPPER WITH STAINLESS STEEL MUST BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATION. BRAZETECH 5800, 3876 OR 3076 SILVER BRAZING FILLER W/ BRAZETECH PASTE FLUX

REFRIGERANT PIPE LABELING

REFRIGERANT PIPE LABELING TO BE IN ACCORDANCE WITH ANSI / ASME A13.1
- ALL REFRIGERANT PIPING TO USE WHITE LABELS WITH BLACK LETTERING
- PLACEMENT OF LABEL IS TO BE BELOW THE HORIZONTAL CENTERLINE OF THE PIPE FOR VISIBILITY.
- FLOW DIRECTION TO BE LABELED USING AN ARROW IN DIRECTION OF FLOW.
- FOR PIPES WITH O.D. (INCLUDING INSULATION) 0.7" TO 1.3"
  - MARKER LENGTH: 8"
  - LEGEND HEIGHT: 0.5"
- FOR PIPES WITH O.D. (INCLUDING INSULATION) 1.4" TO 2.4"
  - MAKER LENGTH: 8"
  - LEGEND HEIGHT: 0.7"
- FOR PIPIES WITH O.D. (INCLUDING INSULATION) 2.5" TO 6.7"
  - MARKER LENGTH: 12"
  - LEGEND HEIGHT: 1.3"

EXAMPLES:

REFRIGERANT SUCTION PIPES

REFRIGERANT LIQUID PIPES

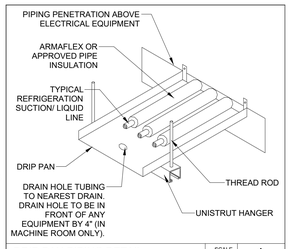
REFRIGERANT DISCHARGE PIPES

REFRIGERANT PIPING & FITTING SPECIFICATION APPLIES TO SHEETS R2.1 AND R2.2

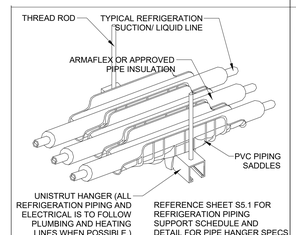
MATERIALS

A. REFRIGERANT PIPING: PROIVDE QUALIFIED PIPING FOR REFRIGERATION SYSTEMS AS SPECIFIED IN "REFRIGERATION PIPING SPECIFICATIONS" ON THIS SHEET, LISTED BASED ON PERFORMANCE BY QUALIFIED LAB, AND AS INDICATED ON DRAWINGS & SPECIFICATIONS.

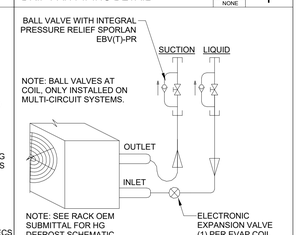
1. COPPER TUBING AND FITTINGS: ASTM B280, TYPE ACR, HARD DRAWN TEMPER TUBING SHALL BE:
   a. FACTORY CLEANED, PURGED WITH NITROGEN, ENDS PLUGGED TO PROTECT CLEANLINESS PRIOR TO SHIPPING AND READY FOR INSTALLATION.
   b. TUBE MUST BE QUALIFIED FOR PRESSURE HANDLING BY ONGOING TESTING AS DEFINED IN UL207, MEETING EITHER:
      - BURST OF FIVE-TIMES OPERATING PRESSURE
      - BURST OF THREE-TIMES OPERATING PRESSURE AND FATIGUE TESTING.
      - TUBE SHALL BE MARKED WITH THIRD-PARTY CERTIFICATION TESTING AGENCY'S LOGO OR TRADEMARK, ALONG WITH MAX OPERATING PRESSURE
2. COPPER-ALLOY TUBING AND FITTINGS: ASTM B1018 SHALL BE:
   a. FACTORY CLEANED, PURGED WITH NITROGEN, ENDS PLUGGED TO PROTECT CLEANLINESS PRIOR TO SHIPPING AND READY FOR INSTALLATION.
   b. TUBE MUST BE QUALIFIED FOR PRESSURE HANDLING BY ONGOING TESTING AS DEFINED IN UL207, MEETING EITHER:
      - BURST OF FIVE-TIMES OPERATING PRESSURE
      - BURST OF THREE-TIMES OPERATING PRESSURE AND FATIGUE TESTING.
      - TUBE SHALL BE MARKED WITH THIRD-PARTY CERTIFICATION TESTING AGENCY'S LOGO OR TRADEMARK, ALONG WITH MAX OPERATING PRESSURE



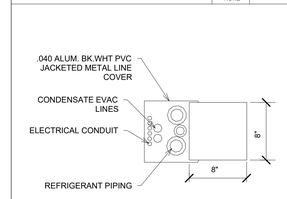
DRIP PAN PIPING DETAIL — SCALE NONE — 1



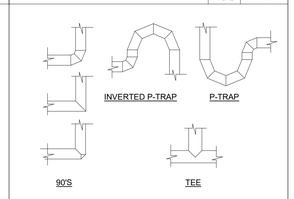
PIPE INSULATION MITERING — SCALE NONE — 4



COIL PIPING DETAIL — SCALE NONE — 2



FALSE COLUMN PIPE CHASE — SCALE NONE — 5

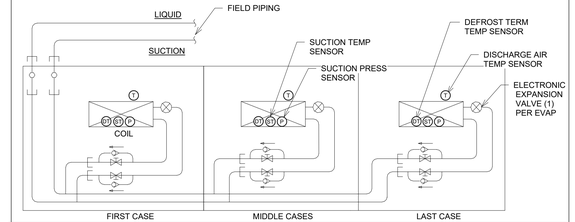


ALL INSULATION AROUND FITTINGS TO BE MITERED (i.e. 90's, Tees, P-traps, etc..) CONSULT MANUFACTURER DATA FOR PROPER MITERING SPECS

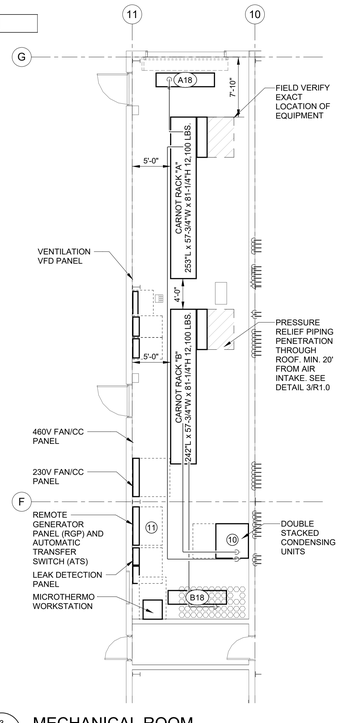
PIPE INSULATION MITERING — SCALE NONE — 3

NOTE: BALL VALVES W/ INTEGRAL PRESSURE RELIEF SPORLAN EBV(T)-PR, 1 PER CASE. VALVE MUST BE INSTALLED W/ RELIEF AWAY FROM COIL

NOTE: SEE RACK OEM SUBMITTAL FOR HG DEFROST SCHEMATIC



CO2 CASE LINE-UP PIPING DETAIL — SCALE NONE — 6



3 R2.1 MECHANICAL ROOM
1/8" = 1'-0"

EACH CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO FAMILIARIZE THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM THE WORK AND ENSURE THE EQUIPMENT OPERATES PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE PERMITTED DUE TO CONDITIONS RESULTING FROM FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE. REFRIGERATION CONTRACTOR TO ADHERE TO ALL EPA GUIDELINES.

Cushing Terrell
cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

12.23.2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

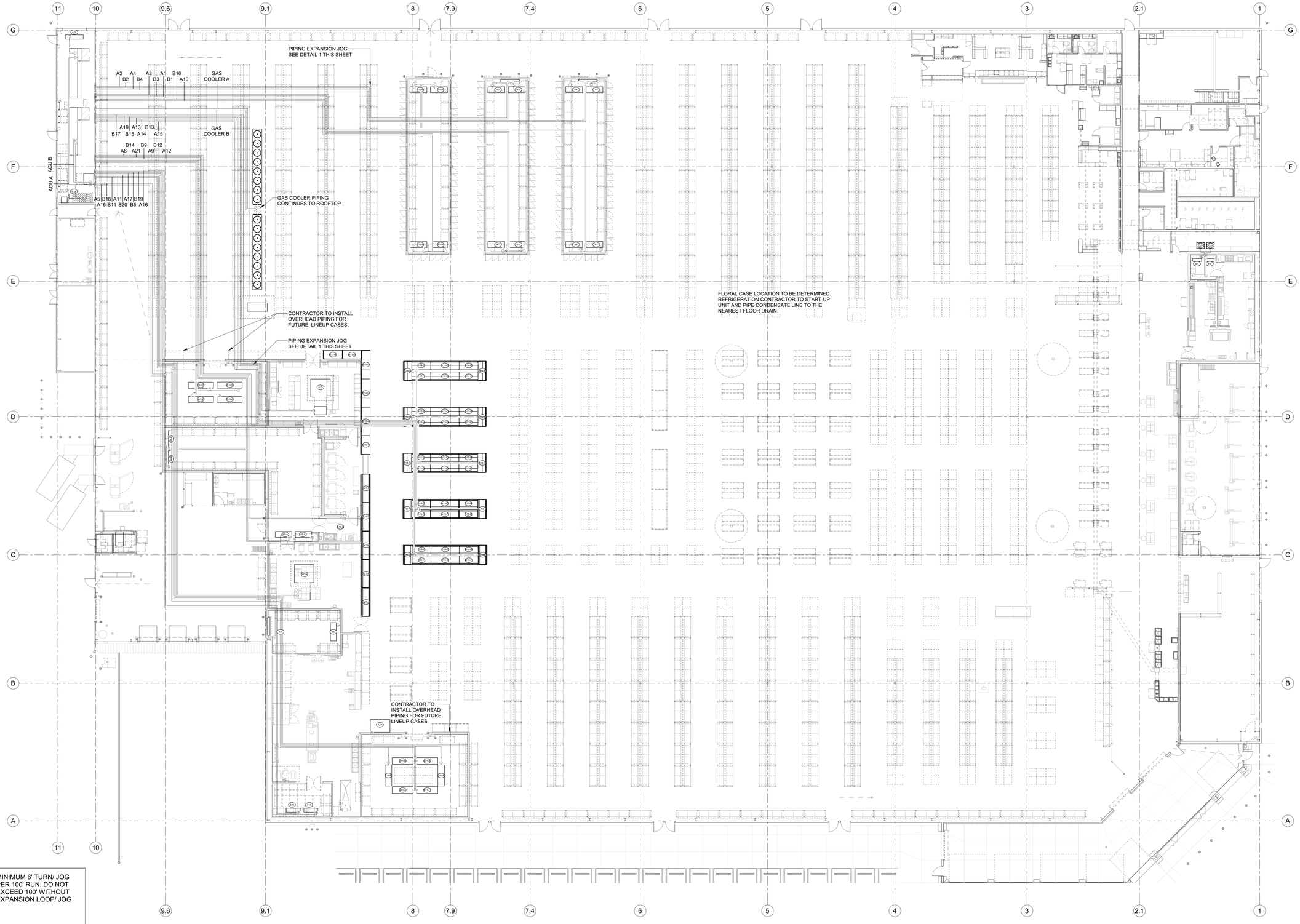
12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATION DX SUCTION & LIQUID LINES

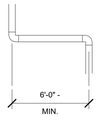
R2.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/23/2025 8:03:58

Cushing Terrell.
cushingterrell.com
800.757.9522



MINIMUM 6' TURN/ JOG
PER 100' RUN. DO NOT
EXCEED 100' WITHOUT
EXPANSION LOOP/ JOG



TYP. EXPANSION PIPING DETAIL	SCALE	1
	NTS	

EACH CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO FAMILIARIZE THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM THE WORK AND ENSURE THE EQUIPMENT OPERATES PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE PERMITTED DUE TO CONDITIONS RESULTING FROM FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE. REFRIGERATION CONTRACTOR TO ADHERE TO ALL EPA GUIDELINES.

REFRIGERATION
COSTCO WHOLESALE

LEE'S SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. DEPPE
NUMBER PE-2010017218
PROFESSIONAL ENGINEER

12.23.2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATION
OVERALL PIPING PLAN

R2.2

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Dec 23, 2025 - 3:58

Cushing Terrell.
cushingterrell.com
800.757.9522

GENERAL NOTES

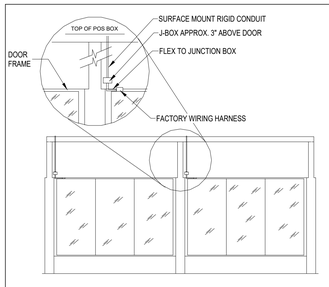
1. REFER TO COSTCO INSTALLATION SPECIFICATIONS FOR PROPER INSTALLATION OF ALL ELECTRICAL WORK ON THIS SHEETS.
2. ALL JUNCTION BOXES FOR REACH-IN DOOR LIGHTS TO BE LOCATED ON MULLIONS. SEE DETAIL THIS SHEET.
3. SEE SHEET R2.0 FOR MISCELLANEOUS & CONTROLS NOTE LEGENDS ('M' & 'C').
4. MOUNT CONDENSER CONTROL/ POWER PANELS FACING OUTSIDE OF PLATFORM.
5. COSTCO I.T. TO RUN CAT5 FROM MT WORKSTATION TO MANAGERS OFFICE.
6. SEE RE3.0 FOR ELECTRICAL POWER PLAN, CIRCUITS, AND WIRE SIZES
7. ALL ELECTRICAL SYSTEMS MUST MEET ALL LOCAL AND NATIONAL CODES.
8. NO MOTION SENSORS ON ANY LIGHTS.

SHEET NOTES

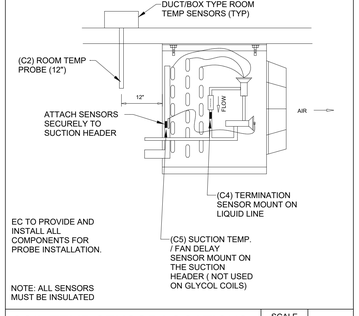
1. EVAC SYSTEM W/ RISER BEAMS (REFRIGERATION ELECTRICAL CONTRACTOR TO CONNECT TO MT ALARM BOARD. #30 COMMON, #31 CRITICAL ALARM, #32 NON-CRITICAL ALARM)
2. AHU CONTROL PANEL FOR CONTROL OF FANS & REHEAT. AHU OEM TO COORDINATE PURCHASE AND SHIPMENT WITH MICRO-THERMO. SEE R5.0 FOR CONTROL DETAILS.
3. MOUNT ALARM AND (2) STROBE LIGHTS ON SALES SIDE OF MEAT PREP WALL
4. RC TO MOUNT RH SENSOR IN MEAT & DELI PREP AREAS FROM AHU HG SOLENOID CONTROL.
5. AUTOMATIC TRANSFER SWITCH (ATS) AND REMOTE GENERATOR PANEL (RGP) FOR STANDBY POWER OF RECEIVER AUXILIARY CONDENSING UNITS (ACU). RACK CONTROLS, FAN PANEL CONTROLS, AND MT WORKSTATION. SEE RE3.2 FOR PANEL SCHEDULE.
6. STANDBY GENERATOR TO PROVIDE BACKUP POWER FOR REMOTE GENERATOR PANEL (RGP). INSTALL PER OEM SPECS.
7. CASE OEM TO PROVIDE: CASE CONTROLLER, ELECTRONIC EXPANSION VALVE, SUCTION TEMP, PRESSURE, DISCHARGE AIR TEMP & DEFROST TERMINATION SENSORS FOR EACH CASE.
8. AUXILIARY CONDENSING UNIT RUN ON HIGH PRESSURE SWITCH. FIELD WIRE RELAY CONTACTS FROM RACK PANEL.
9. NOT USED - SELF CONTAINED BAKERY WATER CHILLER. CONTROLS PRE-INSTALLED ON UNIT, SET-UP BY RC IN COORDINATION W/ NEELANDS.
10. RACK OEM TO PROVIDE LIQUID LINE SOLENOIDS AT RACK FOR DEFROST. RUN (3) CONDUCTOR #16 AWG SHIELDED (BELDEN OR EQUIVALENT) FROM FAN PANEL TO REFRIGERATION RACK CONTROL PANEL PER RACK LIQUID LINE SOLENOID

ELECTRICAL LEGEND

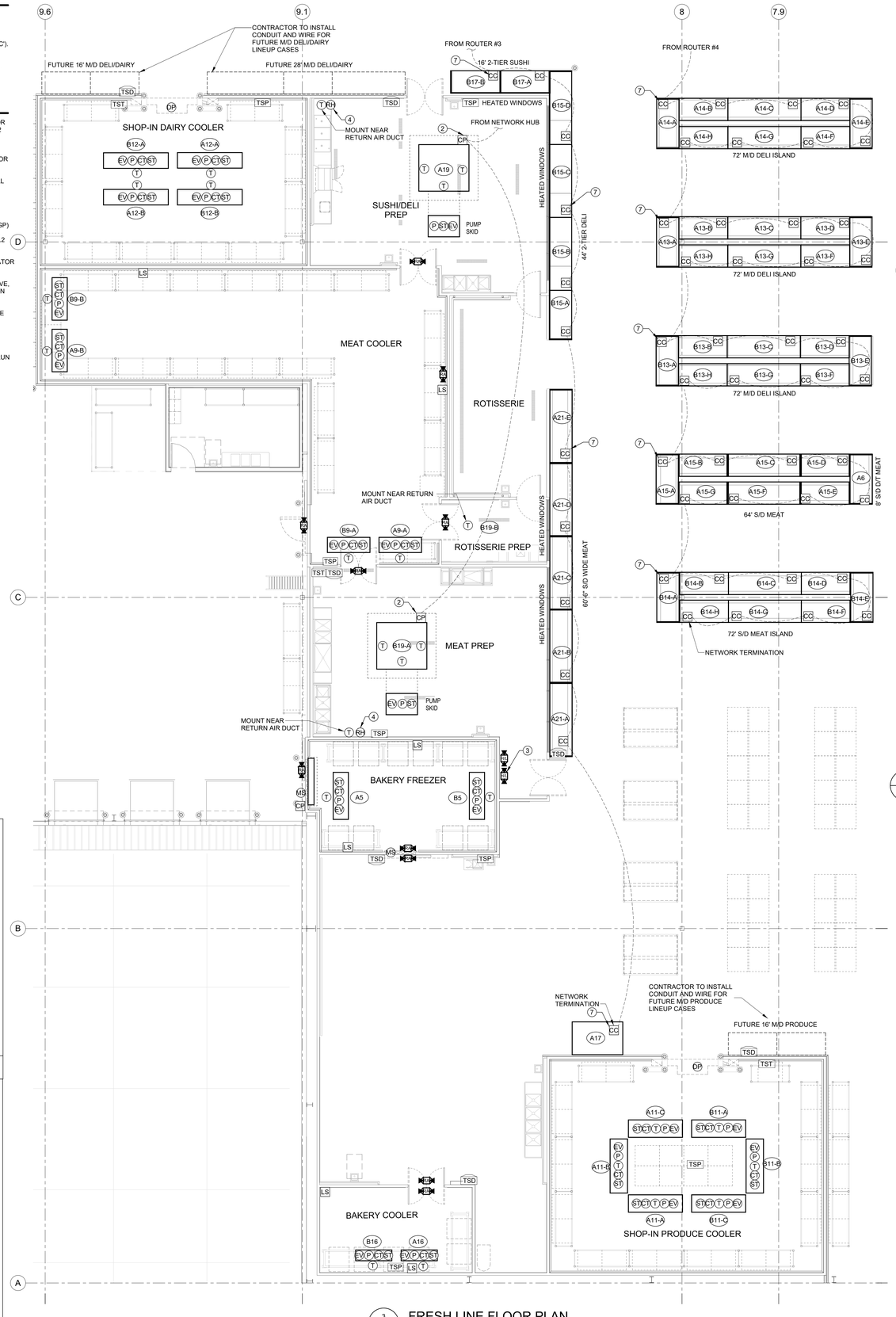
- xR — ELECTRICAL CALL-OUT - SEE REFRIGERATION SCHEDULE R2.0 MISCELLANEOUS ELECTRICAL FOR DISCRIPTION
- x# — REFRIGERATION SYSTEM NUMBER - SEE REFRIGERATION SCHEDULE FOR REFERENCE
- ELECTRICAL CONNECTION POINT
- CS — CURRENT SENSING PROOF 2) CONDUCTOR BELDEN #8761 TO ASSIGNED INPUT
- CT — COIL TEMPERATURE SENSOR SEE R2.0 MISC. CONTROLS 'C4'
- DP — DIFFERENTIAL PRESSURE SWITCH/ PROOF 'C14'
- J — JUNCTION BOX
- MS — MAGNETIC SWITCH 'C6'
- T — TEMPERATURE SENSOR 'C2'
- ST — SUCTION LINE TEMPERATURE SENSOR 'C5'
- P — SUCTION LINE PRESSURE TRANSDUCER 'C1'
- RH — RELATIVE HUMIDITY SENSOR
- EV — ELECTRONIC EXPANSION VALVE 'C9'
- GFI — CONVENIENCE OUTLET WITH GROUND FAULT INTERRUPTER
- TSD — THERMO-SIMPLE DISPLAY UNIT CONNECT TO TRANSFORMER ADN PROBE
- TST — THERMO-SIMPLE TRANSFORMER 120V-24V FIELD INSTALL ON TOP OF WALK-INS
- TSP — THERMO-SIMPLE PROBE MOUNT ADJACENT TO MT PROBES IN RETURN AIR
- CP — CONTROL PANEL
- CC — MICRO-THERMO CASE CONTROLLER
- LS — REFRIGERANT LEAK DETECTOR 'C8'
- REFRIGERANT LEAK ALARM & STROBE
- HIGH/LOW PRIORITY ALARM AND STROBE PROVIDED BY MICRO-THERMO



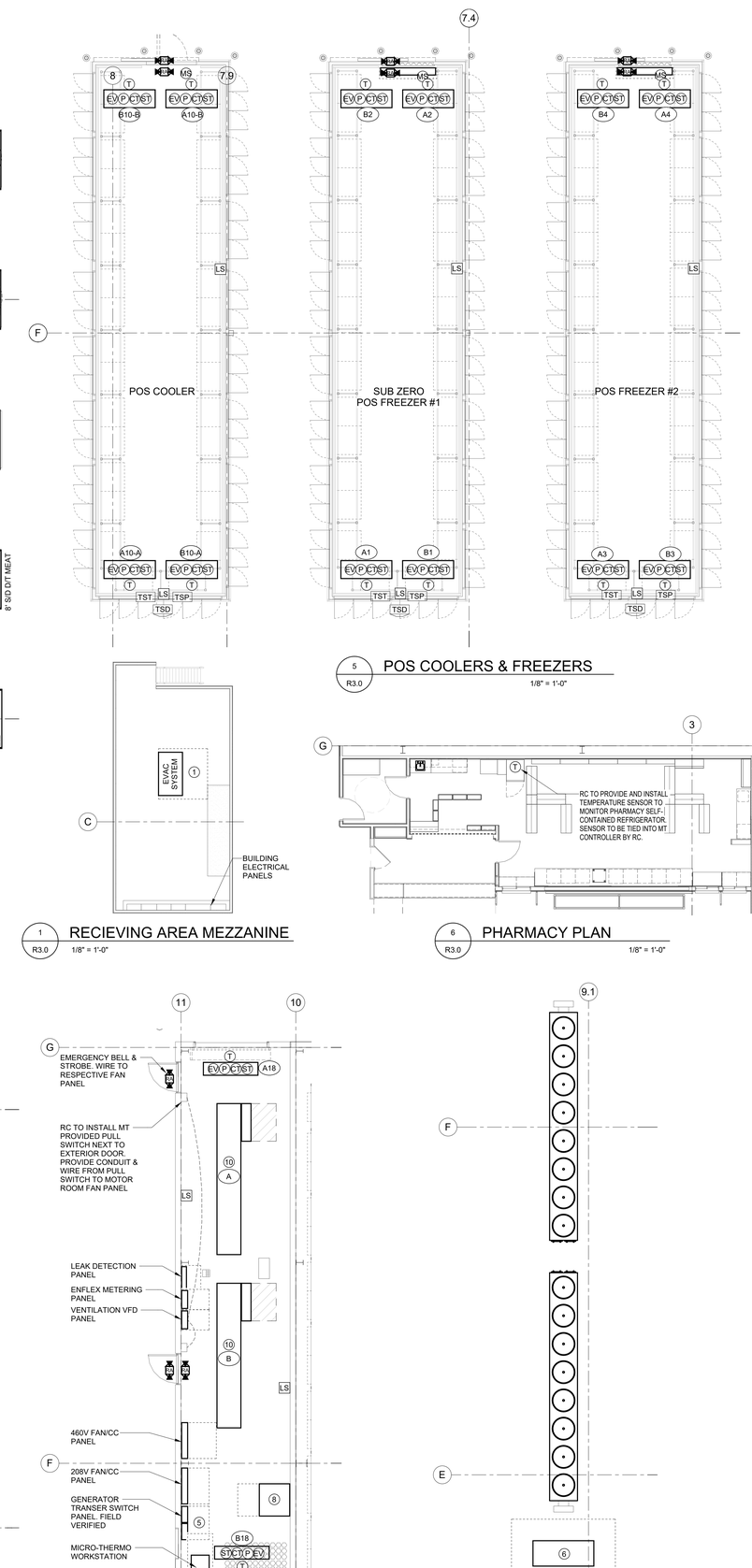
POS J-BOX MOUNTING — SCALE: NONE — 1



COIL TEMP SENSOR LOCATIONS — SCALE: NONE — 2



3 R3.0 FRESH LINE FLOOR PLAN — 1/8" = 1'-0"



5 R3.0 POS COOLERS & FREEZERS — 1/8" = 1'-0"

1 R3.0 RECIEVING AREA MEZZANINE — 1/8" = 1'-0"

6 R3.0 PHARMACY PLAN — 1/8" = 1'-0"

4 R3.0 MECHANICAL ROOM — 1/8" = 1'-0"

7 R3.0 REFRIGERATION ROOFTOP EQUIPMENT — 1/8" = 1'-0"

EACH CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO FAMILIARIZE THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM THE WORK AND ENSURE THE EQUIPMENT OPERATES PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE PERMITTED DUE TO CONDITIONS RESULTING FROM FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE. REFRIGERATION CONTRACTOR TO ADHERE TO ALL EPA GUIDELINES.

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. LIMPERT
NUMBER PE-2016017218
PROFESSIONAL ENGINEER
12.23.2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATION CONTROLS PLAN

R3.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/23/2025 13:58

Cushing Terrell.
cushingterrell.com
800.757.9522

GENERAL NOTES

1. REFER TO COSTCO INSTALLATION SPECIFICATIONS FOR PROPER INSTALL OF ALL PLUMBING EQUIPMENT ON THIS SHEET.
2. ALL PLUMBING WORK ON THIS SHEET TO COMPLY WITH INTERNATIONAL AND LOCAL PLUMBING CODES
3. SEE ARCHITECTURAL AND PLUMBING SHEETS FOR EXACT LOCATIONS OF DRAINS.
4. ALL WATER CONNECTIONS, VALVES AND PIPING PROVIDED AND INSTALLED BY GENERAL (PLUMBING) CONTRACTOR.
5. ALL ABOVE GRADE CONDENSATE LINES PROVIDED AND INSTALLED BY REFRIGERATION CONTRACTOR.

SHEET NOTES

(1) ADD INSULATED P-TRAP ONCE DRAIN LINE IS OUTSIDE OF OR HAS LEFT THE FREEZER/COOLER.

(2) DRIP PANS FOR REFRIGERATION RACKS SUPPLIED BY RACK OEM, INSTALLED BY RC.

(3) RUN CONDENSATE DRAINS ALONG WALL TO NEAREST UNDERSINK DRAIN

(4) NOT USED

(5) ALL EVAC RISERS FROM CASES TO BE RUN INSIDE OF ADJACENT COOLER, THROUGH ROOF, AND CONNECT TO EVAC MAIN LINE.

(6) INSULATE PRODUCE & DAIRY COOLER CONDENSATE PIPE WITH 1/2" INSULATION

(7) STANDYBY GENERATOR, NATURAL GAS CONSUMPTION @ 100% LOADED (805 SCFH)

PLUMBING SCHEDULE

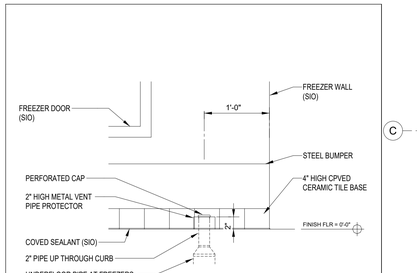
P4 VENT & DRAIN AT POS FREEZER
SEE ARCHITECTURAL DRAWINGS AND MECHANICAL SHEETS FOR DETAILS.

P5 EVAC BUFFER BOX LOCATIONS.
SEE DETAIL 3, THIS SHEET. SEE SHEET R4.1 FOR ADDITIONAL INFO.

PVC PVC PIPE WRAP.
ALL PREP AREAS WITH CONDENSATE DRAIN LINES TO RECEIVE PROTECTIVE WRAP OR OTHER COSTCO APPROVED WRAP. MOUNTED WITH STAINLESS STEEL HANGERS/UNISTRUTS/CLAMPS.

PLUMBING LEGEND

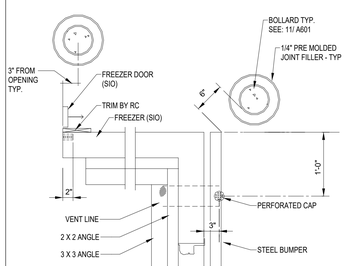
- PLUMBING CALL-OUT
- PLUMBING STUB-UP
- COIL/CASE CONNECTION
- A 1 1/8" COPPER CONDENSATE LINE
- EVAC RISER LOCATION



NOTE: SEE ADDITIONAL DETAILS ON A501.5

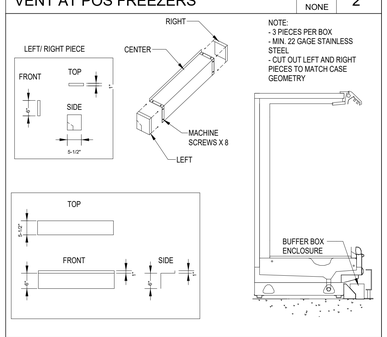
NOTE: CONDENSATE FOR POS FREEZERS TO BE ROUTED THROUGH EVAC SYSTEM.

FREEZERS VENT | SCALE NONE | 1



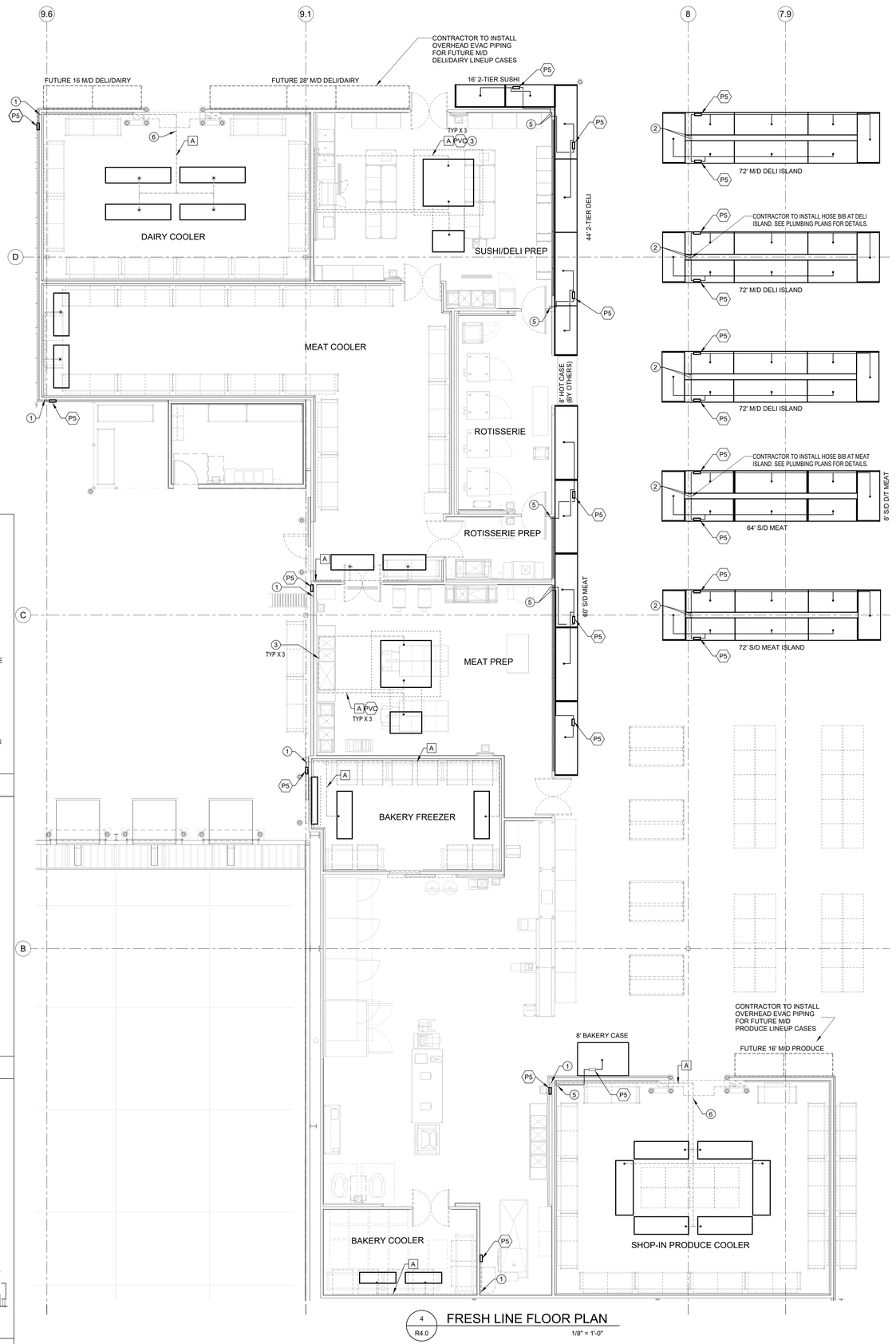
NOTE: SEE ADDITIONAL DETAILS ON A501.5

VENT AT POS FREEZERS | SCALE NONE | 2

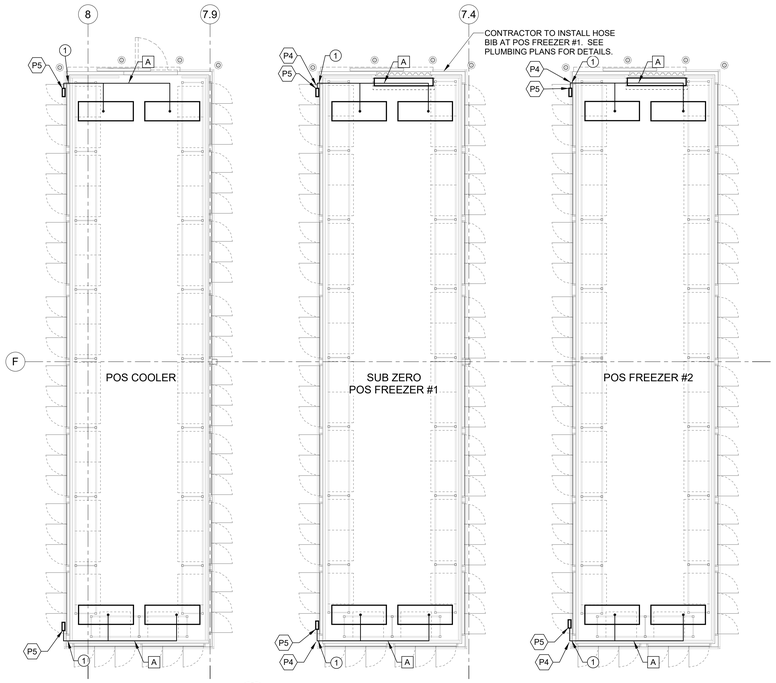


NOTE:
- 3 PIECES PER BOX
- MIN. 22 GAGE STAINLESS STEEL
- CUT OUT LEFT AND RIGHT PIECES TO MATCH CASE GEOMETRY

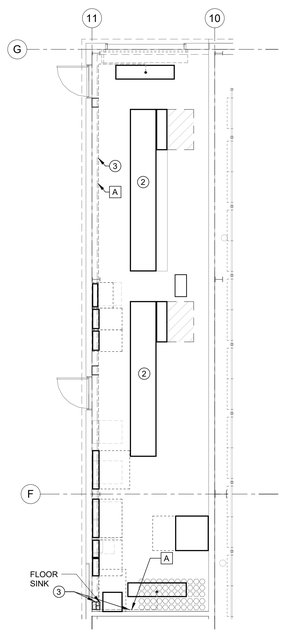
BUFFER BOX ENCLOSURE AT CASES | SCALE NONE | 3



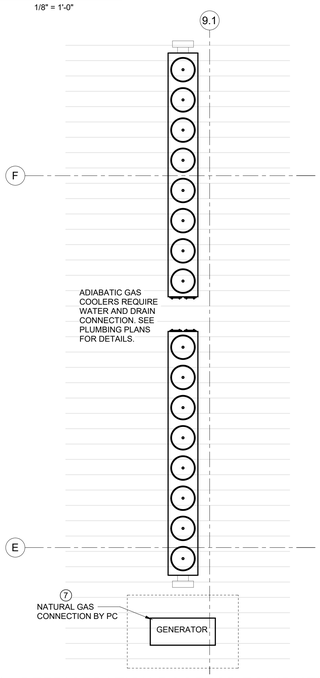
4 R4.0 FRESH LINE FLOOR PLAN
1/8" = 1'-0"



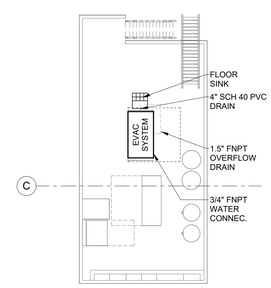
6 R4.0 POS COOLERS & FREEZERS
1/8" = 1'-0"



1 R4.0 MECHANICAL ROOM
1/8" = 1'-0"



5 R4.0 REFRIGERATION ROOFTOP EQUIPMENT
1/8" = 1'-0"



3 R4.0 RECIEVING AREA MEZZANINE
1/8" = 1'-0"

DRAIN PIPE LABELING

CONDENSATE DRAIN PIPE LABELING TO BE IN ACCORDANCE WITH ANSI / ASME A13.1
- ALL CONDENSATE DRAIN PIPING TO USE GREEN LABELS WITH WHITE LETTERING
- PLACEMENT OF LABEL IS TO BE BELOW THE HORIZONTAL CENTERLINE OF THE PIPE FOR VISIBILITY.
- FLOW DIRECTION TO BE LABELED USING AN ARROW IN DIRECTION OF FLOW.
- FOR PIPES WITH O.D. (INCLUDING INSULATION) 0.7" TO 1.3"
  - MARKER LENGTH: 8"
  - LEGEND HEIGHT: 0.5"
- FOR PIPES WITH O.D. (INCLUDING INSULATION) 1.4" TO 2.4"
  - MAKER LENGTH: 8"
  - LEGEND HEIGHT: 0.7"
- FOR PIPIES WITH O.D. (INCLUDING INSULATION) 2.5" TO 6.7"
  - MARKER LENGTH: 12"
  - LEGEND HEIGHT: 1.3"

EXAMPLES:

CONDENSATE DRAIN PIPES

EACH CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO FAMILIARIZE THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM THE WORK AND ENSURE THE EQUIPMENT OPERATES PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE PERMITTED DUE TO CONDITIONS RESULTING FROM FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE. REFRIGERATION CONTRACTOR TO ADHERE TO ALL EPA GUIDELINES.

REFRIGERATION
COSTCO WHOLESALE

LEE'S SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. DEWITT
NUMBER PE-2016017218
PROFESSIONAL ENGINEER

12.23.2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATION PLUMBING PLAN

R4.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:58

Cushing Terrell
cushingterrell.com
800.757.9522

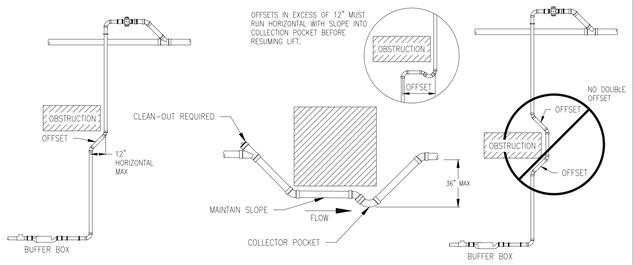
EVAC EQUIPMENT SCHEDULE – SUPPLIED BY OWNER INSTALLED BY CONTRACTOR (S.O.I.C.)								
SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	COLD W.	COMMENTS	DETAIL	SERVES	BACKFLOW PREVENTION
EVAC	EVAC SYSTEM	L235-40-HV	4"	¾"	EVAC SYSTEM VACUUM CENTRAL AND LIQUID RING PUMP WATER REFRESH SYSTEM. PROVIDE WITH WATTS #009 RPZ., 2870Lbs, 460V/3PH, 11A FLA.	THIS SHEET DETAIL 12	EQUIPMENT PLATFORM OR MACHINE ROOM	HIGH HAZARD BACK PRESSURE RPZ

EVAC LEGEND
- VALVE
- BUFFER BOX
- CONNECTION TO CONDENSATE DRAIN LINE
- RISER

1. INSTALL ACTIVATOR PINCH VALVE IN A READILY ACCESSIBLE LOCATION FOR SERVICE
2. INSTALL MINI CHECK VALVE WITHIN 4" OF ANY VACUUM SOURCE PORT.
3. RUN OVERHEAD DRAIN LINES FROM ISLAND CASE DIRECTLY OVER TO FRESHLINE BEFORE CONNECTING TO OTHER DRAIN LINES
4. PIPING TO RUN IN TRUSS SPACE OR AS HIGH AS POSSIBLE. TOP OF RISER ELEVATION TO BE MAXIMUM OF 24" A.F.F. PIPING TO HAVE MINIMUM ELEVATION OF 22" A.F.F. IF PIPING DROPS BELOW MINIMUM HEIGHT, PROVIDE SLOPE MAKE UP RISER PER DETAIL 10

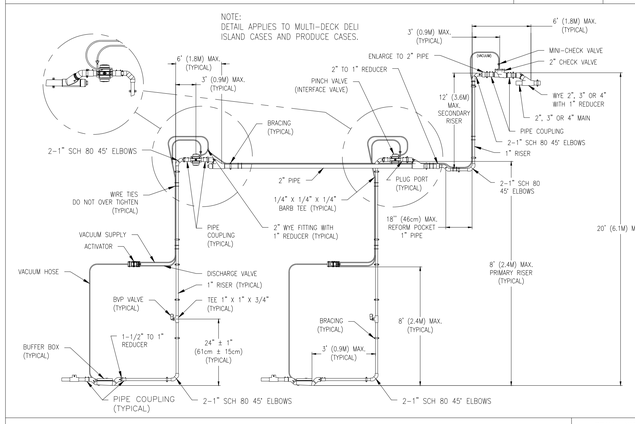
EQUIPMENT SCHEDULE, LEGEND, AND PLAN NOTES

SCALE: NTS | VERSION: 2023.09.21 | 1



ROUTING AROUND HORIZONTAL & VERTICAL OBSTRUCTIONS

SCALE: NTS | VERSION: 2023.09.21 | 3



TYPICAL GANG LIFT DETAIL

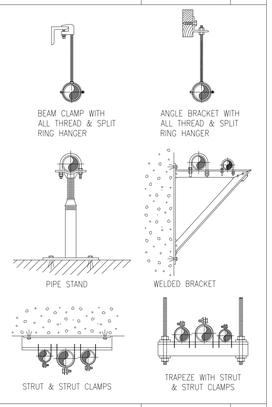
SCALE: NTS | VERSION: 2023.09.21 | 5

GENERAL INSTALLATION NOTES

SCALE: NTS | VERSION: 2023.09.21 | 2

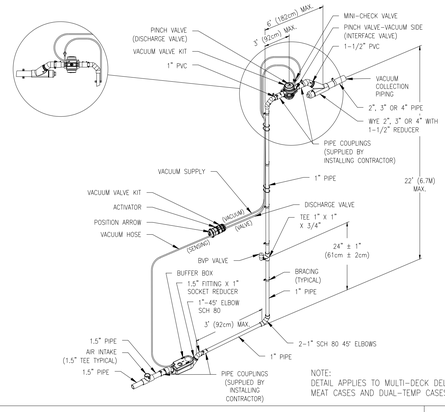
1. PITCH VACUUM DRAINAGE PIPING AT MINIMUM ⅛" PER FOOT (1%).
2. BRACE PIPING AT 4'-0" INTERVALS AND WITHIN 1 FOOT OF EACH CHANGE IN DIRECTION. USE THE HANGER ROD CONFIGURATION FOR OVERHEAD PIPING, AS SHOWN. SEE DETAIL 10.
3. USE SCHEDULE 40 PVC OR TYPE M COPPER PIPE. FOR CHANGE IN DIRECTION USE SCHEDULE 80 PVC FITTING, TWO 45 DEGREE SCHEDULE 80PVC FITTINGS OR DWV FITTINGS.
4. VACUUM DRAINAGE RISER MUST ENTER MAINS OR BRANCHES FROM ABOVE USING A WYE FITTING. THE WYE FITTING MAY BE ROLLED 45 DEGREES FROM VERTICAL.
5. NO TEE FITTINGS ARE PERMITTED IN THE VACUUM DRAINAGE PIPING.
6. INSIDE PIPING SURFACES AND JOINTS MUST BE SMOOTH, FREE OF BURRS AND OBSTRUCTIONS.
7. LOCATE CLEAN-OUTS IN THE VACUUM DRAINAGE PIPING AT THE ENDS OF MAINS AND BRANCHES, AND WHEN THERE IS A 90 DEGREE CHANGE IN DIRECTION IN AN OVERHEAD BRANCH OR MAIN.
8. A SINGLE OFFSET IS ALLOWED IN VERTICAL RISERS. OFFSET IS ONLY BE USED TO BYPASS STRUCTURAL OBSTRUCTIONS.
9. ISOLATION AND CHECK VALVES SHALL BE FULL-PORT VALVES, RATED FOR VACUUM.
10. ALL PIPING SHOULD REMAIN CONCEALED FROM VIEW AT RISERS AND CASES.
11. ALL VACUUM VALVING AND COMPONENTS SHOULD BE READILY ACCESSIBLE EITHER ON TOP OF CASE OR BEHIND ACCESS PANEL; WHEN ON CASE TOP, CONCEAL FROM VIEW.
12. REFER TO WWW.EVAC.COM COM FOR COMPLETE DESIGN MANUAL DETAILS.

1. ALL PIPING MUST BE SUPPORTED, BRACED ANDS ECURED TO RESIST THRUSTING FORCES AND MINIMIZED MOVEMENT.
2. ALL PIPING MUST BE BRACED PER EVAC SPECS OR PER LOCAL CODE REQUIREMENTS WHICHEVER IS MORE RESTRICTIVE.
3. ALL BRACING ASSEMBLIES MUST BE ATTACHED TO STRUCTURAL STEEL, RIGID STUDS, OR WOODEN BACKINGS. DRYWALL, THIN SHEET METAL CASE BACKING, AND HVAC DUCT WORK ARE NOT ACCEPTABLE ANCHOR POINTS.
4. BRACING OF HORIZONTAL PIPING SHOULD BE IN FIVE FOOT INTERVALS WHEN INSTALLATION IS DONE IN PVC, AND EIGHT FOOT INTERVALS FOR COPPER, OR AS REQUIRED BY LOCAL CODE.
5. SAGGING OF THE PIPING BETWEEN SUPPORT IS NOT PERMITTED; ⅛" PER FOOT OF SLOPE IS TO BE MAINTAINED AT ALL TIMES.
6. LATERAL OR SEISMIC BRACING SHOULD BE ADDED EVERY 25' WHEN THE HANGER ASSEMBLY IS GREATER THAN 36" LONG, OR AS REQUIRED BY LOCAL CODE.
7. WHEN A UNI-STRUT TRAPEZE IS USED, PIPING MUST BE CLAMPED DOWN SECURELY.
8. VERTICAL LIFTS ARE TO BE SECURED IN SIX FOOT INTERVALS.
9. BRACING IS REQUIRED AT THE TOP OF ALL VERTICAL LIFTS.
10. AN APPROVED BRACING ASSEMBLY MUST BE INSTALLED WITHIN ONE FOOT OF EVERY DIRECTIONAL CHANGE, ON BOTH SIDES OF THE FITTING.
11. AN APPROVED BRACING ASSEMBLY MUST BE INSTALLED WITHIN ONE FOOT OF EVERY INTERFACE/ PINCH VALVE, ON BOTH THE INLET AND THE OUTLET SIDE.



TYPICAL BRACING NOTES AND DETAILS

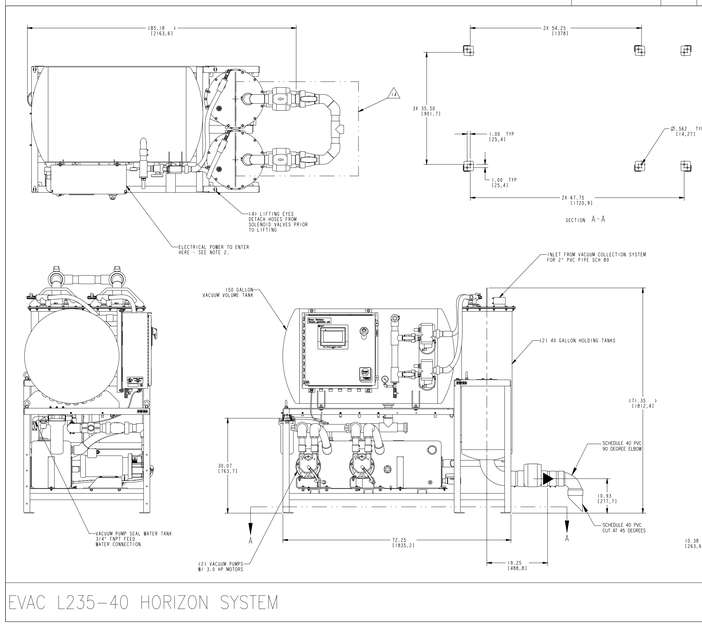
SCALE: NTS | VERSION: 2023.09.21 | 4



NOTE:
DETAIL APPLIES TO MULTI-DECK DELI MEAT CASES AND DUAL-TEMP CASES.

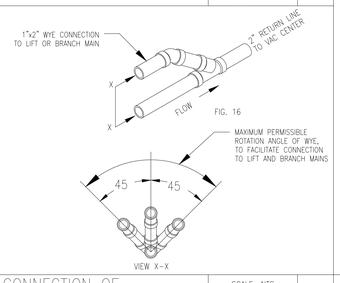
TYPICAL LIFT DETAIL

SCALE: NTS | VERSION: 2023.09.21 | 6



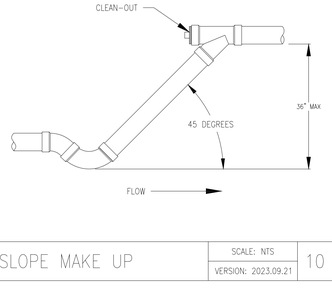
EVAC L235-40 HORIZON SYSTEM

SCALE: NTS | VERSION: 2023.09.21 | 9



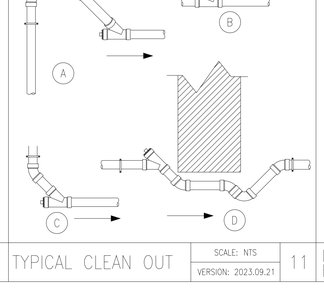
CONNECTION OF LIFT/BRANCH TO MAIN

SCALE: NTS | VERSION: 2023.09.21 | 7



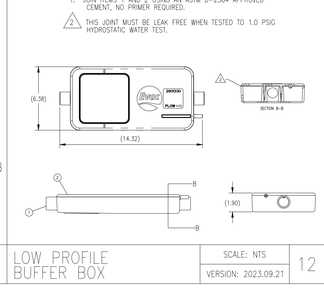
SLOPE MAKE UP

SCALE: NTS | VERSION: 2023.09.21 | 10



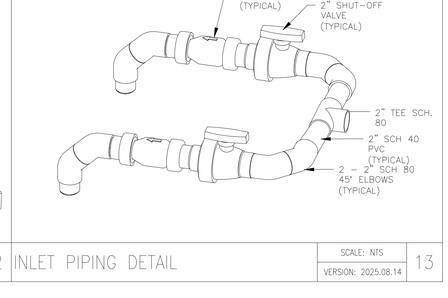
TYPICAL CLEAN OUT

SCALE: NTS | VERSION: 2023.09.21 | 11



LOW PROFILE BUFFER BOX

SCALE: NTS | VERSION: 2023.09.21 | 12

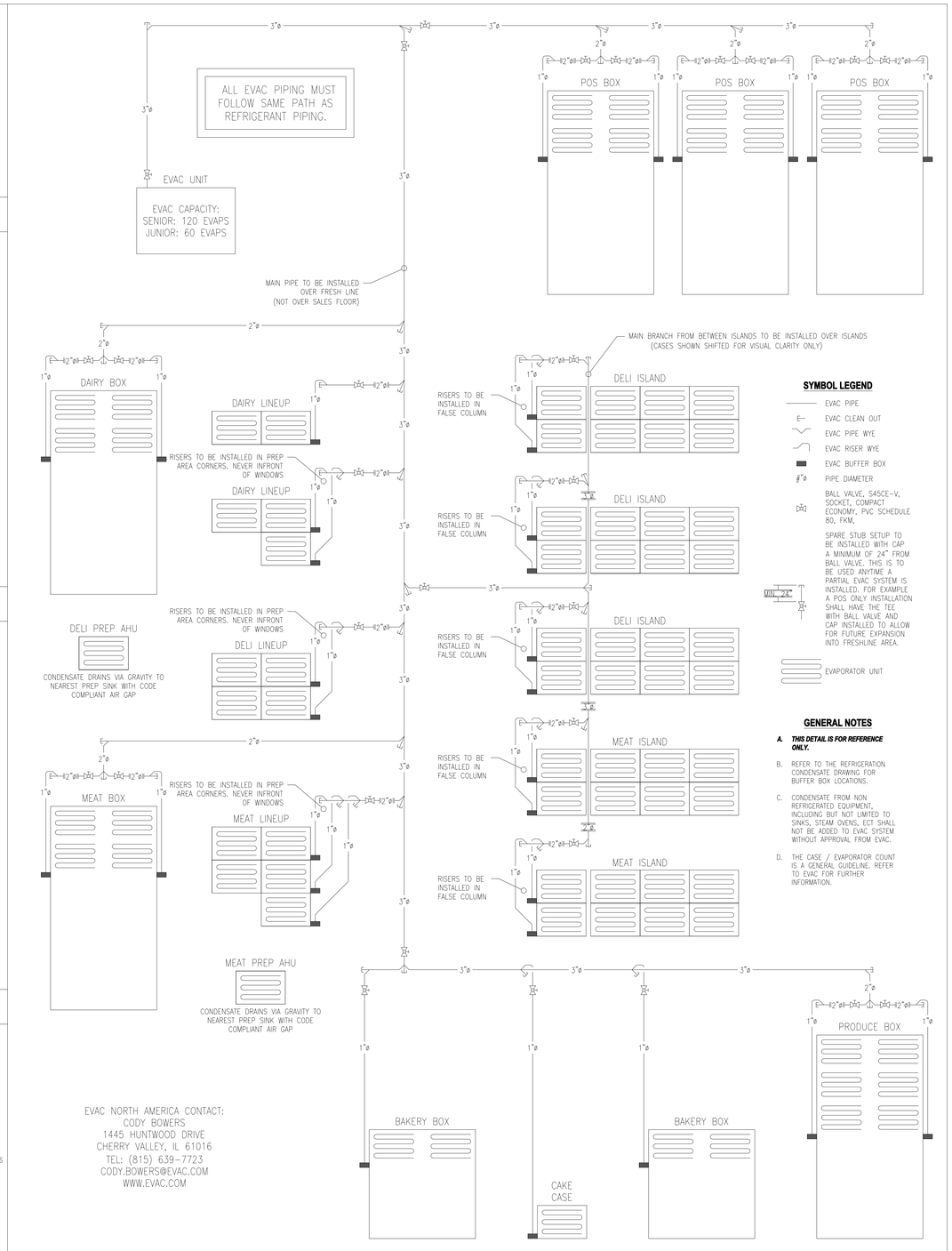


INLET PIPING DETAIL

SCALE: NTS | VERSION: 2025.08.14 | 13

REFERENCE EVAC SYSTEM LAYOUT

SCALE: NTS | VERSION: 2023.09.21 | 8



SYMBOL LEGEND
- EVAC PIPE
- EVAC CLEAN OUT
- EVAC PIPE WYE
- EVAC RISER WYE
- EVAC BUFFER BOX
- #"ø PIPE DIAMETER
- BALL VALVE, 545CE-V, SOCKET, COMPACT ECONOMY, PVC SCHEDULE 80, FKM,
- SPARE STUB SETUP TO BE INSTALLED WITH CAP A MINIMUM OF 24" FROM BALL VALVE. THIS IS TO BE USED ANYTIME A PARTIAL EVAC SYSTEM IS INSTALLED. FOR EXAMPLE A POS ONLY INSTALLATION SHALL HAVE THE TEE WITH BALL VALVE AND CAP INSTALLED TO ALLOW FOR FUTURE EXPANSION INTO FRESHLINE AREA.
- EVAPORATOR UNIT

GENERAL NOTES

A. ***THIS DETAIL IS FOR REFERENCE ONLY.***

B. REFER TO THE REFRIGERATION CONDENSATE DRAWING FOR BUFFER BOX LOCATIONS.

C. CONDENSATE FROM NON REFRIGERATED EQUIPMENT, INCLUDING BUT NOT LIMITED TO SINKS, STEAM OVENS, ECT SHALL NOT BE ADDED TO EVAC SYSTEM WITHOUT APPROVAL FROM EVAC.

D. THE CASE / EVAPORATOR COUNT IS A GENERAL GUIDELINE. REFER TO EVAC FOR FURTHER INFORMATION.

EVAC NORTH AMERICA CONTACT:
CODY BOWERS
1445 HUNTWOOD DRIVE
CHERRY VALLEY, IL 61016
TEL: (815) 639-7723
CODY.BOWERS@EVAC.COM
WWW.EVAC.COM

REFRIGERATION
COSTCO WHOLESALE
LEE SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. CROWLEY
NUMBER PE-2010037218
PROFESSIONAL ENGINEER
12.23.2025

© 2025 | ALL RIGHTS RESERVED

PERMIT

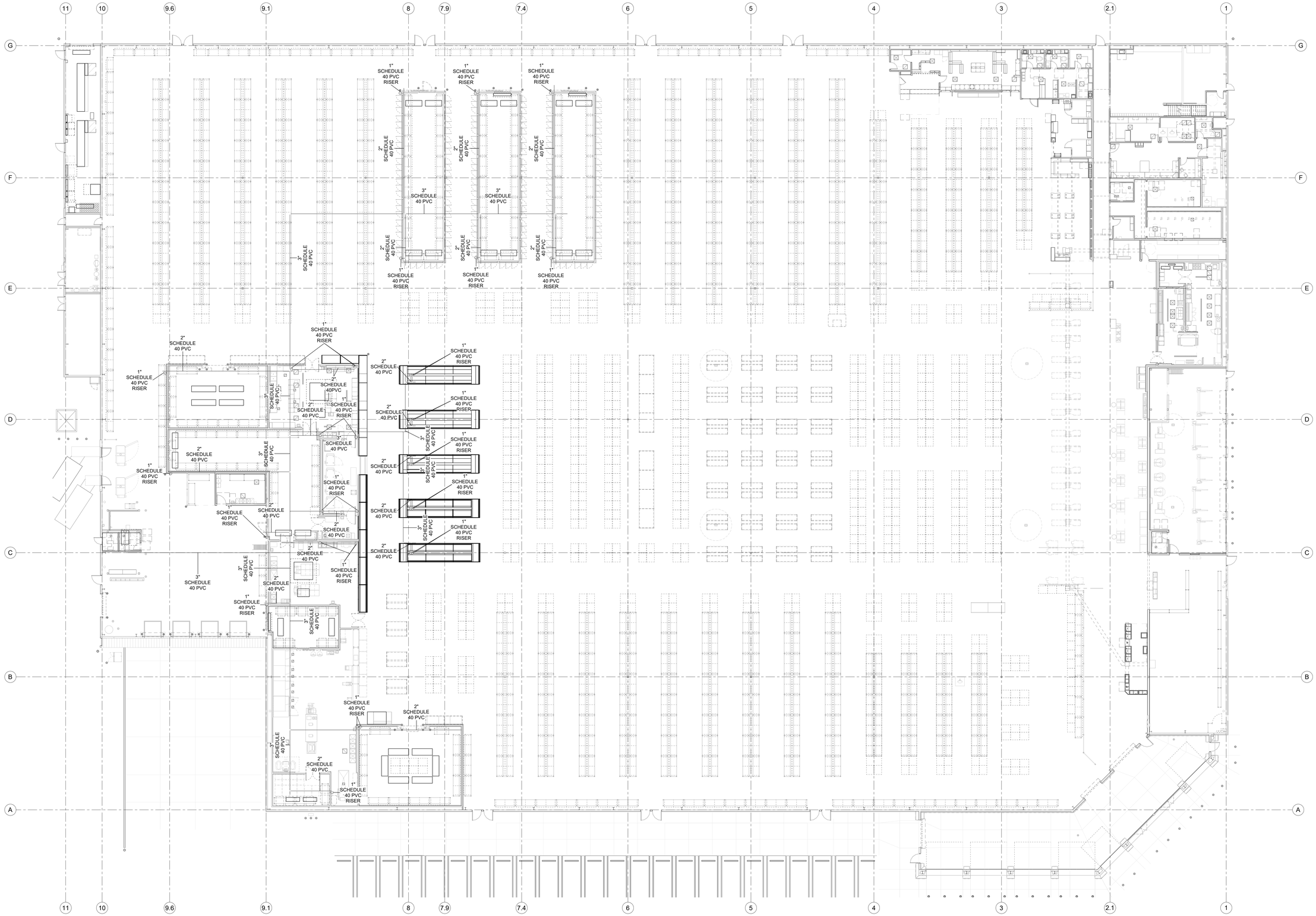
12.22.2025
PROJECT# | COSTCO
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

EVAC DETAILS

R4.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/23/2025 08:58

Cushing Terrell.
cushingterrell.com
800.757.9522



1 R4.2 OVERALL PLUMBING PLAN
1/16" = 1'-0"

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. DEBERRY
NUMBER PE-2010017218
PROFESSIONAL ENGINEER

12.23.2025

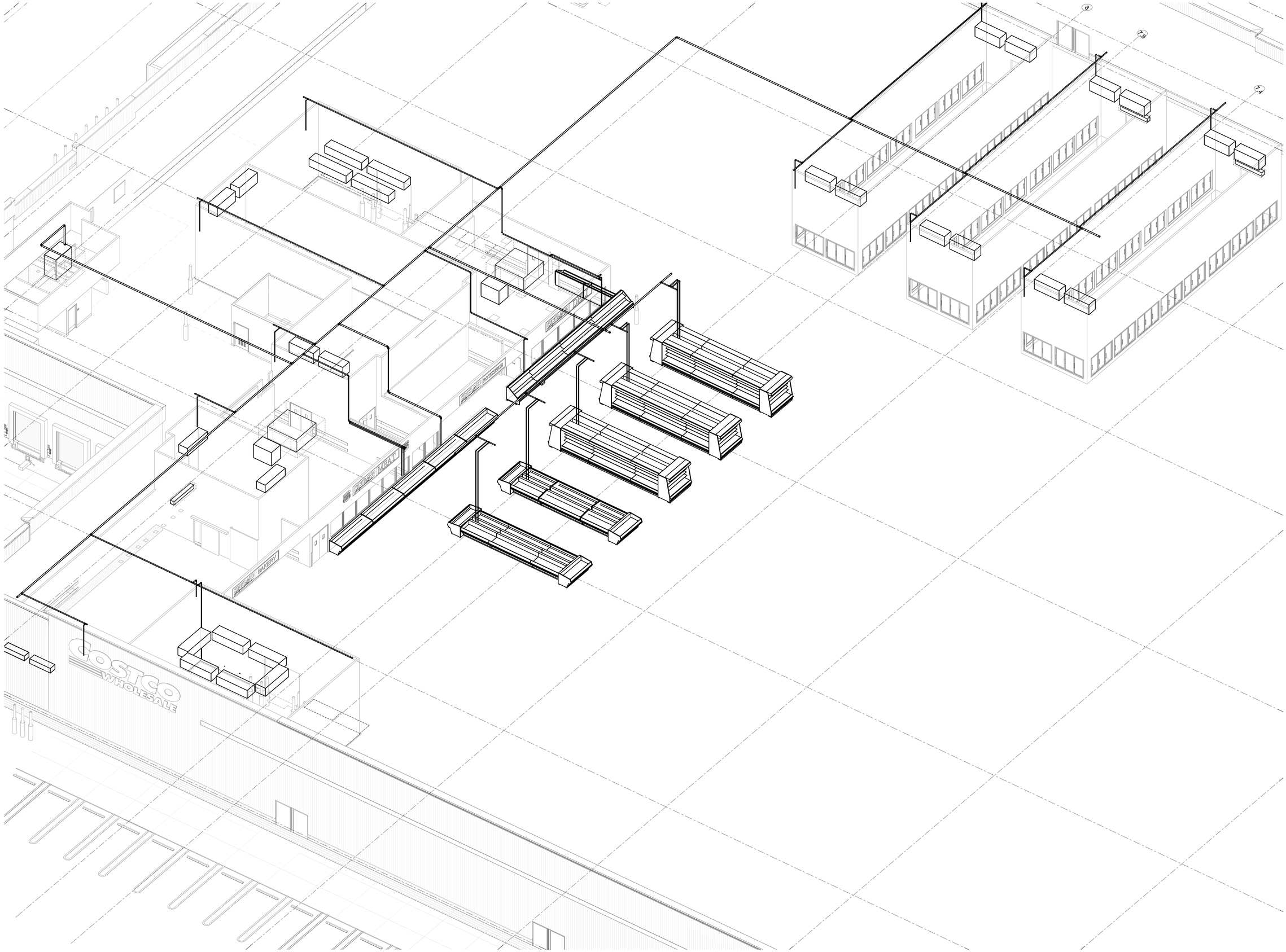
© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATION
OVERALL PLUMBING
PLAN

R4.2



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/23/2025 3:58

Cushing Terrell.
cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

STATE OF MISSOURI
NICHOLAS F. [illegible]
NUMBER PE-2016017218
PROFESSIONAL ENGINEER

12.23.2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

1
R4.3
RIFRIGERATION ISOMETRIC OVERALL PLUMBING PLAN

REFRIGERATION
ISOMETRIC OVERALL
PLUMBING PLAN

R4.3

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/23/2025 4:03:59

AIR TERMINAL SCHEDULE

(SUPPLIED AND INSTALLED BY REFRIGERATION CONTRACTOR)

SYMBOL	MANUFACTURER	SERVICE	MODEL US - MEXICO	MODEL CANADA	DESCRIPTION	NOTES
SD-1	EGER PRODUCTS INC.	SUPPLY	6082	4287	WHITE PLASTIC SUPPLY DIFFUSER. 24" x 24". SEE DRAWING FOR COLLAR SIZES. INCLUDES SS HARDWARE.	REFRIGERATION CONTRACTOR TO SUPPLY / INSTALL
RG-1	EGER PRODUCTS INC.	RETURN	6083	4288	WHITE PLASTIC RETURN GRILLE. 24" x 24". SEE DRAWING FOR COLLAR SIZES. INCLUDES SS HARDWARE. SUPPLY / INSTALL FILTER	REFRIGERATION CONTRACTOR TO SUPPLY / INSTALL
FILTER FOR ALL RG-1	EGER PRODUCTS INC.	RETURN FILTER	6084	4289	WASHABLE AIR FILTER FOR AIR RETURN	REFRIGERATION CONTRACTOR TO SUPPLY / INSTALL
FRAME FOR ALL SD-1 & RG-1	EGER PRODUCTS INC.	FRAME	6085	4290	24" x 24" WHITE PLASTIC FRAME FOR SUPPLY & RETURN	REFRIGERATION CONTRACTOR TO SUPPLY / INSTALL
RG-1 REPLACEMENT GRILLE	EGER PRODUCTS INC.	REPLACEMENT GRILLE	6119	4318	WHITE PLASTIC AIR RETURN REPLACEMENT FRONT GRILLE (NOT WHOLE UNIT)	WHEN REQUIRED

HVAC EQUIPMENT SCHEDULE

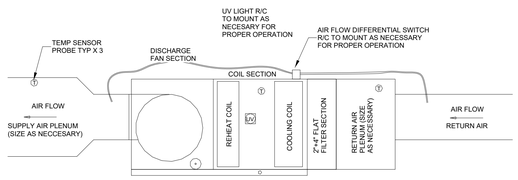
SYMBOL	ITEM	SERVES	MFR. / #	ELECTRICAL	WEIGHT	REMARKS
A19	COOLING COIL	DELI PREP	SEE R2.0	SEE R2.0	3010 LBS	HORIZONTAL DISCHARGE
B19	COOLING COIL	MEAT/ROTISSERIE PREP	SEE R2.0	SEE R2.0	3010 LBS	HORIZONTAL DISCHARGE

LEGEND

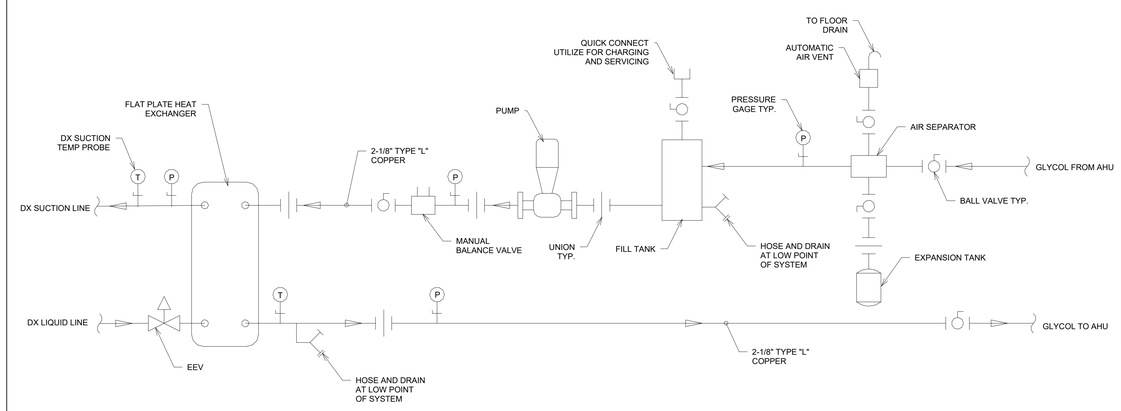
- 24" x 24" SUPPLY GRILL
- 24" x 24" GRILL RETURN
- AIR HANDLER UNIT
- OPPOSED BLADE DAMPER

GENERAL NOTES:

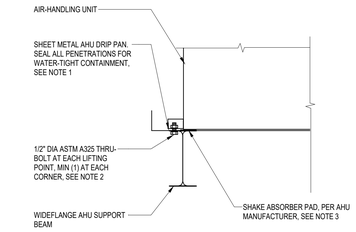
1. COORDINATE AHU SUPPORT FRAME LOCATIONS PRIOR TO OTHER TRADES RUNNING ELECTRICAL CONDUIT, SPRINKLER LINES, ETC. RC TO FASTEN AHU TO SUPPORTS PER OEM SPECIFICATIONS.
2. AIR HANDLER DUCT RUNS TO BE COORDINATED WITH GC. GC TO PROVIDE ANY PENETRATIONS THROUGH WALLS IF NECESSARY.
3. ALL DUCT INSULATION PER CODE AND COSTCO REFRIGERATION INSTALL SPECIFICATIONS PART 2.2 & 3.4C
4. (WHERE REQUIRED BY JURISDICTION) AHU SMOKE DETECTORS SUPPLIED BY FIRE ALARM CONTRACTOR, RC TO INSTALL AND WIRE, LOCATED PER CODE.
5. BELDEN #8761 AIR DIFFERENTIAL SWITCH TO BE HOOKED UP TO NORMALLY OPEN CONTACTS.
6. UVC LIGHT KIT TO BE INSTALLED WITH CONTACT SWITCHES AT EACH ACCESS PANEL(S) TO BE WIRED IN SERIES TO SHUT OFF UV LIGHT WHEN ANY ACCESS PANEL IS OPENED.
7. TEMPERATURE AND HUMIDITY SENSORS TO BE LOCATED PER R3.0 AND DETAIL 1, THIS SHEET.
8. INSTALL (2) SEPARATE DRAIN LINES PER HANDLER TO DRAIN (DO NOT TIE TOGETHER).



PREP AREA AHU'S SENSOR DETAIL — SCALE NTS — 1

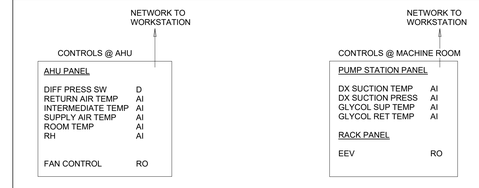


TYPICAL DX TO GLYCOL HX PUMP SKID — SCALE NTS — 4



NOTES:
1. SEAL ALL PENETRATIONS WITH BUTYL RUBBER CAULK IN THE FOLLOWING MANNER:
   A. ONE BEAD BETWEEN DRIP PAN AND I-BEAM
   B. ONE BEAD BETWEEN WASHER AND DRIP PAN
   C. AROUND THE NUT/WASHER ASSEMBLY AFTER IT IS TIGHTENED SO NO BOLT, NUT, OR WASHER IS VISIBLE.
2. WASHERS TO BE USED ON BOLT HEAD AND NUT SIDE OF CONNECTION. NUT IS TO BE NYLOC TYPE LOCKING NUT.
3. KELLETT ENTERPRISES, INC. ITEM 4x4-50NA38, LP-13 SHAKE ABSORBER PAD OR EQUIVALENT.
4. DETAIL AND ANALYSIS IS ADEQUATE FOR SEISMIC DESIGN CRITERA OF Sds < OR = EQUAL TO 2.25G
5. DETAIL AND ANALYSIS IS ADEQUATE FOR AHU WITH MAXIMUM WEIGHT OF 3,000 LBS
6. DETAIL AND ANALYSIS IS ADEQUATE FOR AHU WITH MAXIMUM WIDTH OF 63" MAXIMUM HEIGHT OF 44"

PREP AREA AHU SEISMIC RESTRAINT DETAIL — SCALE NTS — 5



INPUTS (PER UNIT):
1. RH SENSOR
2. AIR TEMP SENSOR (RETURN, INTERMEDIATE, SUPPLY, ROOM)
3. DIFFERENTIAL PRESSURE SWITCH

OUTPUTS (PER UNIT):
1. ELEC REHEAT (3 STAGE CONTROL)
2. PUMP RELAY
3. EEV
4. FAN RELAY

CONTROL STRATEGY:
- IF DRY BULB (DB) TEMP IS ABOVE 50F OR DEW POINT (DP) ABOVE 42 F THEN COOLING RUNS (EEV SOLENOID OPEN) UNTIL DP IS SATISFIED.
- IF SPACE DB TEMP DROPS BELOW 48F THEN REHEAT IS ENABLED (ELEC COIL). TERMINATE REHEAT AT 50F.
- SHUT DOWN PUMP FOR 2 HOUR, TIME-OFF, DEFROST DURING STORE CLOSED HOURS.

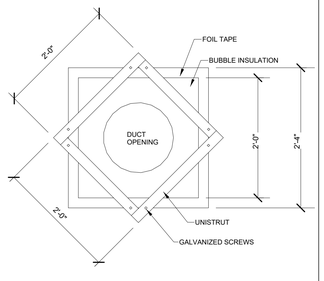
AHU CONTROL DIAGRAM — SCALE NTS — 2

MATERIAL LIST FOR 24" X 24" ACCESS OPENING:

- (1) 28" X 28" BUBBLE INSULATION
- 10' OF FOIL TAPE
- 10' OF UNISTRUT
- (8) #10 X 1" GALVANIZED SCREWS WITH
- FLAT WASHERS

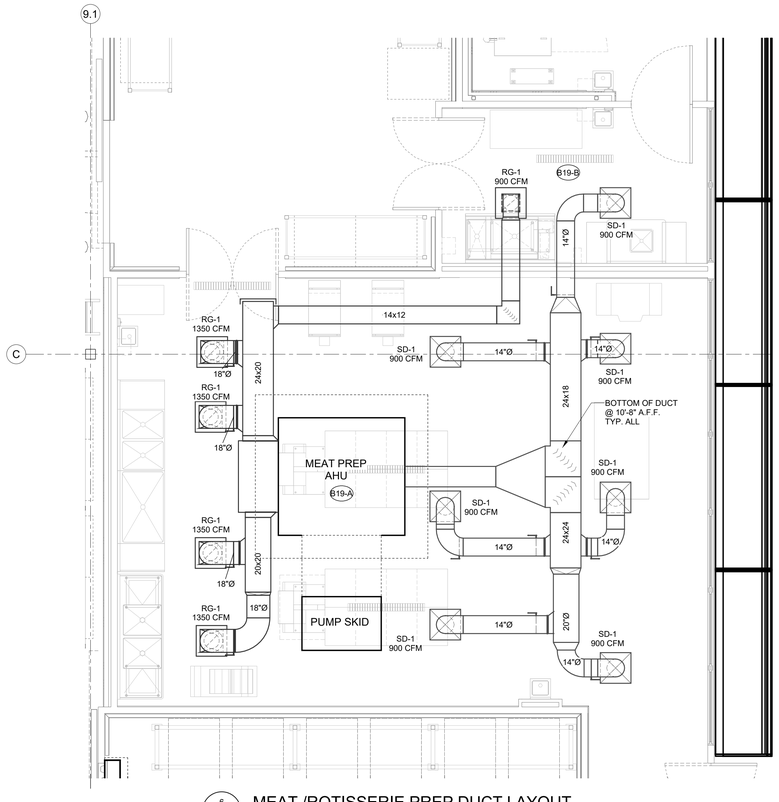
INSTALLATION INSTRUCTIONS:

1. COVER HOLE WITH BUBBLE INSULATION AND TAPE EDGES WITH FOIL TAPE (DEBRIS CATCH)
2. CUT DIAMETER HOLE FOR DUCT DIFFUSER
3. 24" LONG UNISTRUT SCREWED TO PANEL
   TO PREVENT FOOT PASSAGE INTO OPENING.

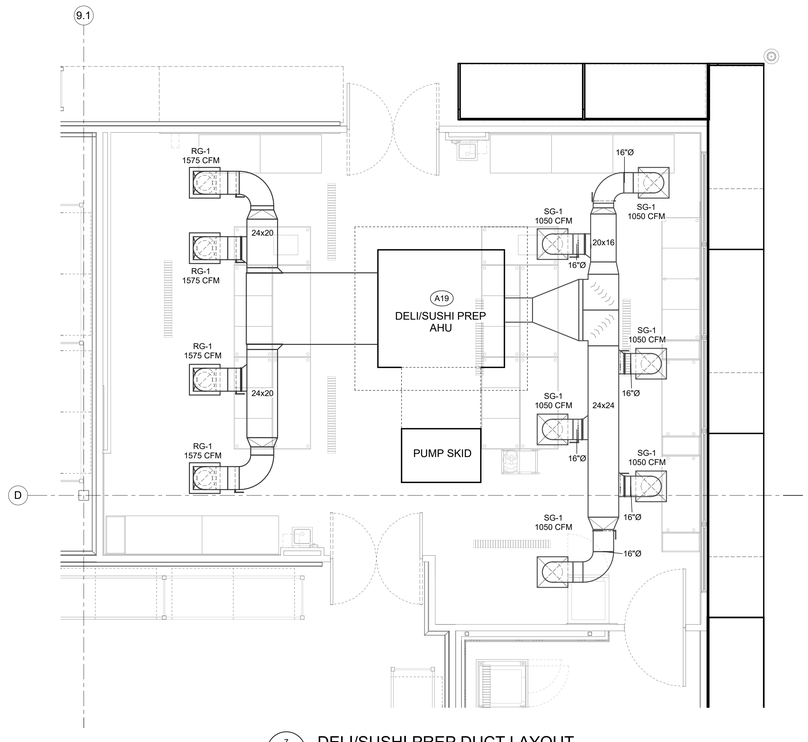


NOTE: DIMENSIONS CAN CHANGE DEPENDING ON EXISTING DUCT OPENING SIZE (FOR REMODELS).

DUCT ACCESS OPENING DETAIL — SCALE NTS — 3



6 R5.0 MEAT /ROTISSERIE PREP DUCT LAYOUT
1/4" = 1'-0"



7 R5.0 DELI/SUSHI PREP DUCT LAYOUT
1/4" = 1'-0"

Cushing Terrell.
cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

NICHOLAS P. CHENEY
NUMBER PE-2010037218
STATE OF MISSOURI
PROFESSIONAL ENGINEER
12.23.2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

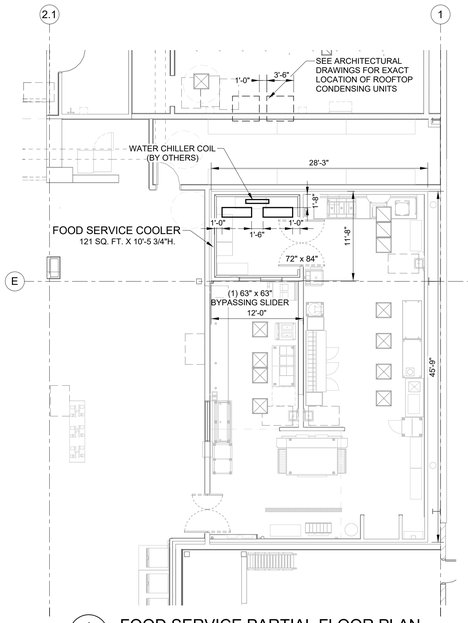
12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

PREP AREA AHU PLAN AND DETAILS

R5.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/23/2025 3:59

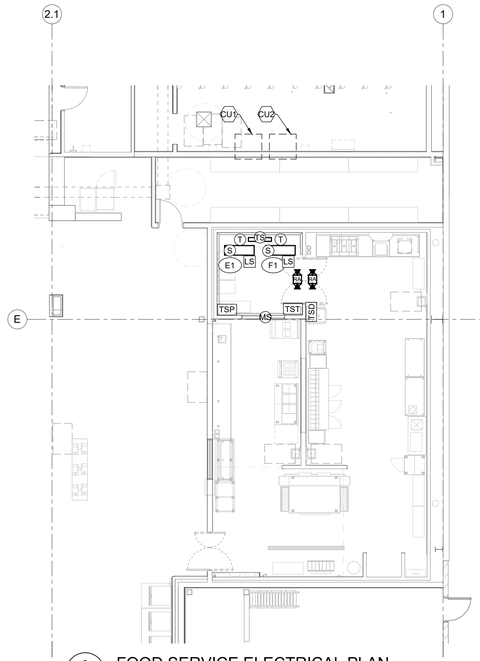
Cushing Terrell.
cushingterrell.com
800.757.9522



1 R6.0 FOOD SERVICE PARTIAL FLOOR PLAN
1/8" = 1'-0"

NOTES

1. DO NOT INSTALL FRONT STAY ROLLER OPPOSITE OF DOOR SLIDE. THIS PERTAINS TO FOOD SERVICE BOXES ONLY.
2. CONDENSING UNIT TO BE SET LEVEL IN BOTH DIRECTIONS.
3. LEAVE CLEARANCE FOR WATER CHILLER COIL WHEN PIPING REFRIGERATION COILS.
4. DURING ROOF MOUNTING IF PARAPET IS BELOW 43" TALL, THEN CONDENSING UNITS TO BE PLACED 10'-0" MIN. FROM EDGE OF PARAPET, OR/OTHERWISE PLACE UNITS DIRECTLY ABOVE COOLER DURING ROOF MOUNTING WHEN PARAPET ALLOWS.
5. DURING ROOF MOUNTING, CONDENSING UNITS MUST NOT BE PLACED LESS THAN 20' FROM ANY BUILDING AIR INTAKE.

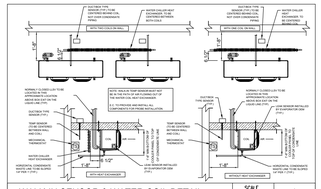


2 R6.0 FOOD SERVICE ELECTRICAL PLAN
1/8" = 1'-0"

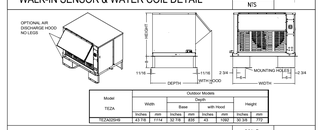
LEGEND

- REFRIGERATION SYSTEM
- ELECTRICAL CALLOUT
- (J) JUNCTION BOX
- (S) SOLENOID - RUN WIRES TO RESPECTIVE FAN
- (T) TEMPERATURE PROBE
- (MS) MAGNETIC SWITCH
- (TS) THERMOSTAT
- (LS) LEAK SENSOR
- (RLA) REFRIGERANT LEAK ALARM
- TSD — THERMO SIMPLE DISPLAY - 5 VDC POWERED VIA CAT-5 CABLE RUN TO TRANSFORMER (WIRED IN SERIES)
- TSP — THERMO SUMPLE PROBE TO BE MOUNTED 8' AFF
- TST — THERMO SIMPLE TRANSFORMER - 120V/1 - 2.0A TO BE MOUNTED ON TOP OF FOOD SERVICE COOLER

SEE RE PLANS FOR LIGHTING

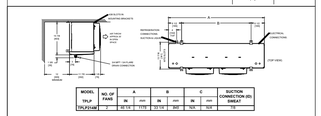


WALK-IN SENSOR & WATER COIL DETAIL — SCALE: N'S — 1



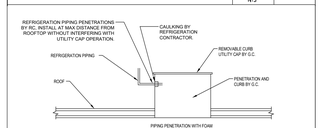
Model	Outdoor Models					
	Width	Depth: Base	Depth: with Hood		Height	
TEZA	Inches / mm	Inches / mm	Inches / mm		Inches / mm	
TEZA2024B	41-7/8 / 1114	32-7/8 / 859	43 / 1092		69-3/8 / 762	

CONDENSING UNITS — SCALE: N'S — 2

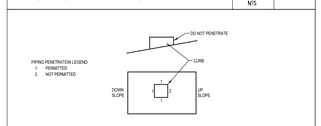


MODEL	NO. OF FANS	A		B		C		SUCTION CONNECTION (ID)
TPLP		IN	mm	IN	mm	IN	mm	SWEAT
TPLP-C-040	4	48-1/4	1226	23-1/8	859	19/0	19/0	7/8"

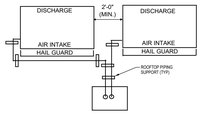
EVAPORATOR COILS — SCALE: N'S — 3



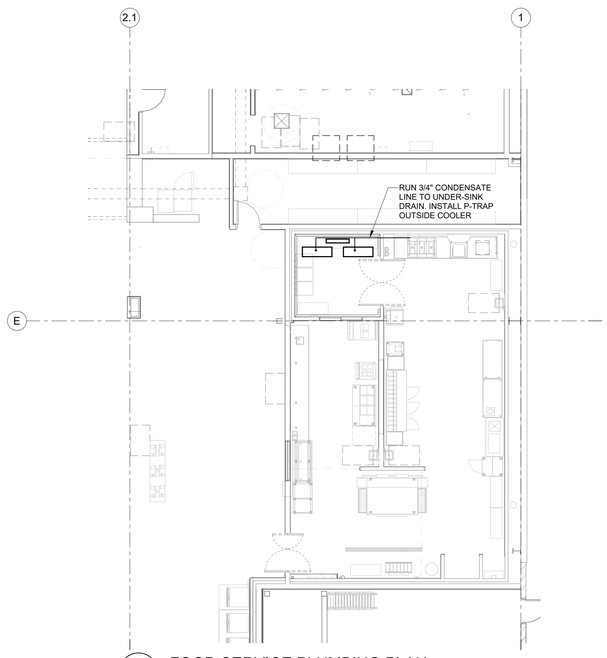
TYPICAL CURB PENETRATION — SCALE: N'S — 4



CURB PIPING ORIENTATION — SCALE: N'S — 5



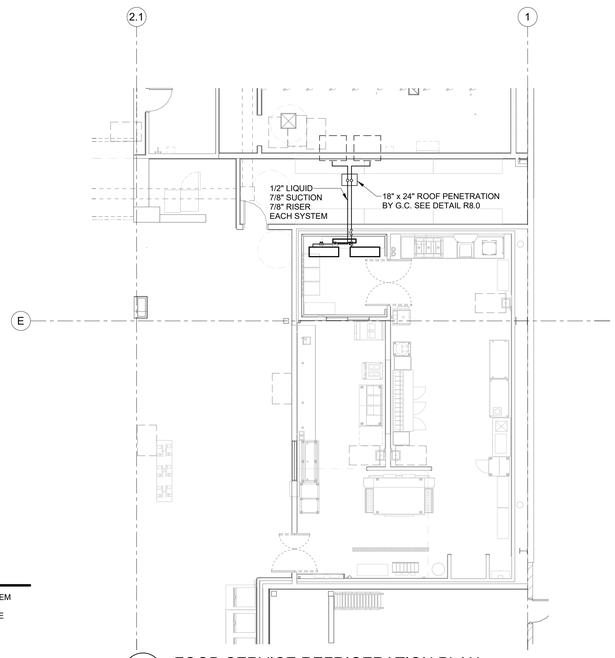
ROOFTOP PIPING LAYOUT — SCALE: N'S — 6



PLUMBING LEGEND

- PLUMBING CALL-OUT
- PLUMBING STUB-UP
- COIL/CASE CONNECTION
- A — 1 1/8" COPPER CONDENSATE LINE

3 R6.0 FOOD SERVICE PLUMBING PLAN
1/8" = 1'-0"



LEGEND

- (#) REFRIGERATION SYSTEM
- OVERHEAD LIQUID LINE
- UNIT CONNECTION
- HAND VALVE
- LIQUID LINE SOLENOID

4 R6.0 FOOD SERVICE REFRIGERATION PLAN
1/8" = 1'-0"

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. GENTRY
NUMBER PE-2010017218
PROFESSIONAL ENGINEER

12.23.2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

12.22.2025
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATION FOOD SERVICE PLAN

R6.0

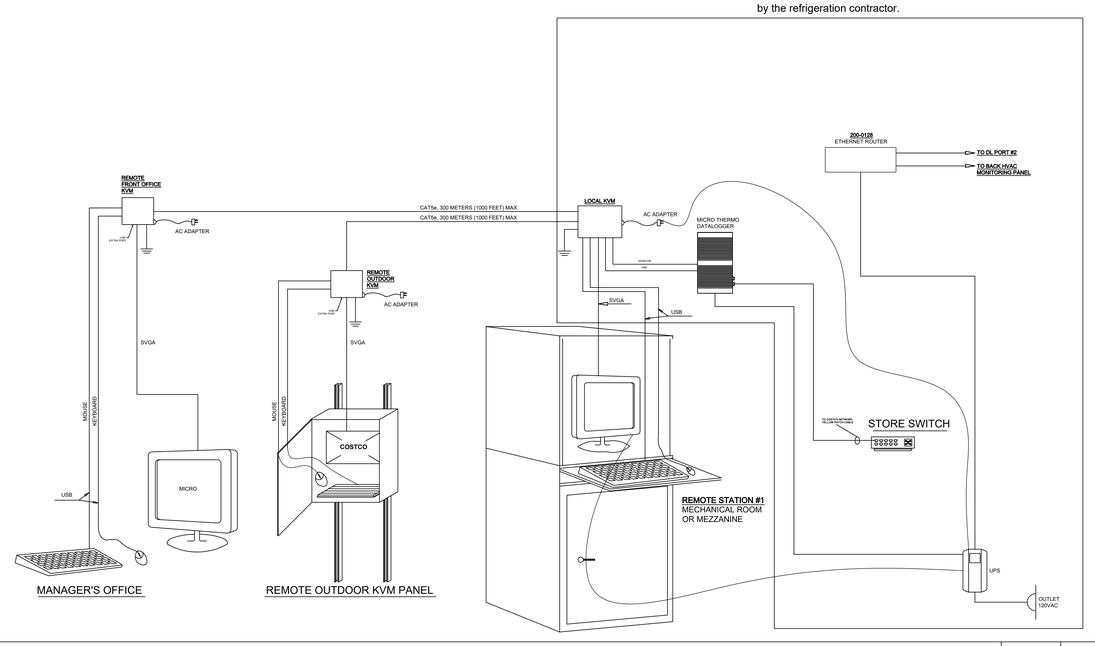
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:59

The XTENDEX (NTI) base kit (MT # 200-0099) allows access to a computer system from an additional remote console (keyboard, monitor, and mouse). It includes a local unit, a remote unit, 1 cable kit and two power adapters.
This kit does not include the required additional cable, mouse, keyboard, and monitor.

The cable used to interconnect the two control units must be of Category 5 UTP.
(4 pairs of wires connected to RJ45 connectors, pin to pin).
The maximum length of the cable is 1000 ft or 300 meters away.
Screen resolution can be increased on shorter distance.

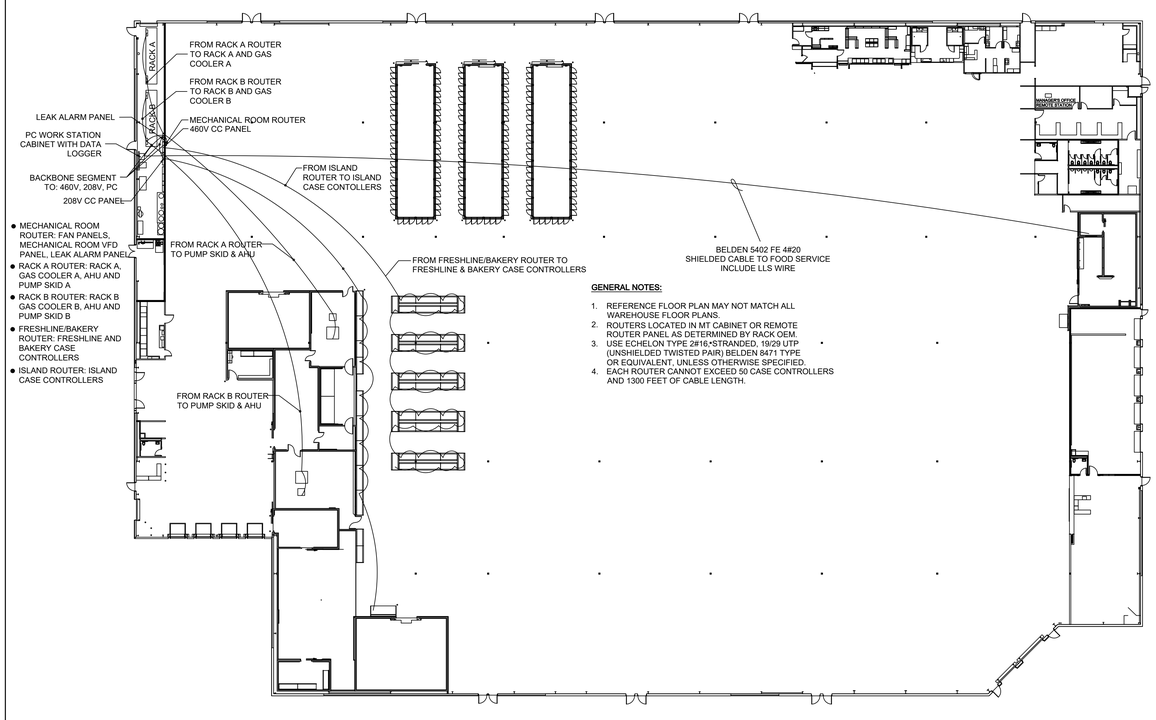
Each VIP USB KIT (MT #209-0056) includes the following:
2 x 201-0020 Network 10' (3m) cables with RJ45 connectors
2 x 201-0009 Bix Junction Boxes
1 x 200-0055 USB keyboard
1 x 200-0056 USB mouse

To be installed in the MT work station
by the refrigeration contractor.



MICRO THERMO DATA LOGGER AND KVM DETAIL

SCALE	1
NONE	



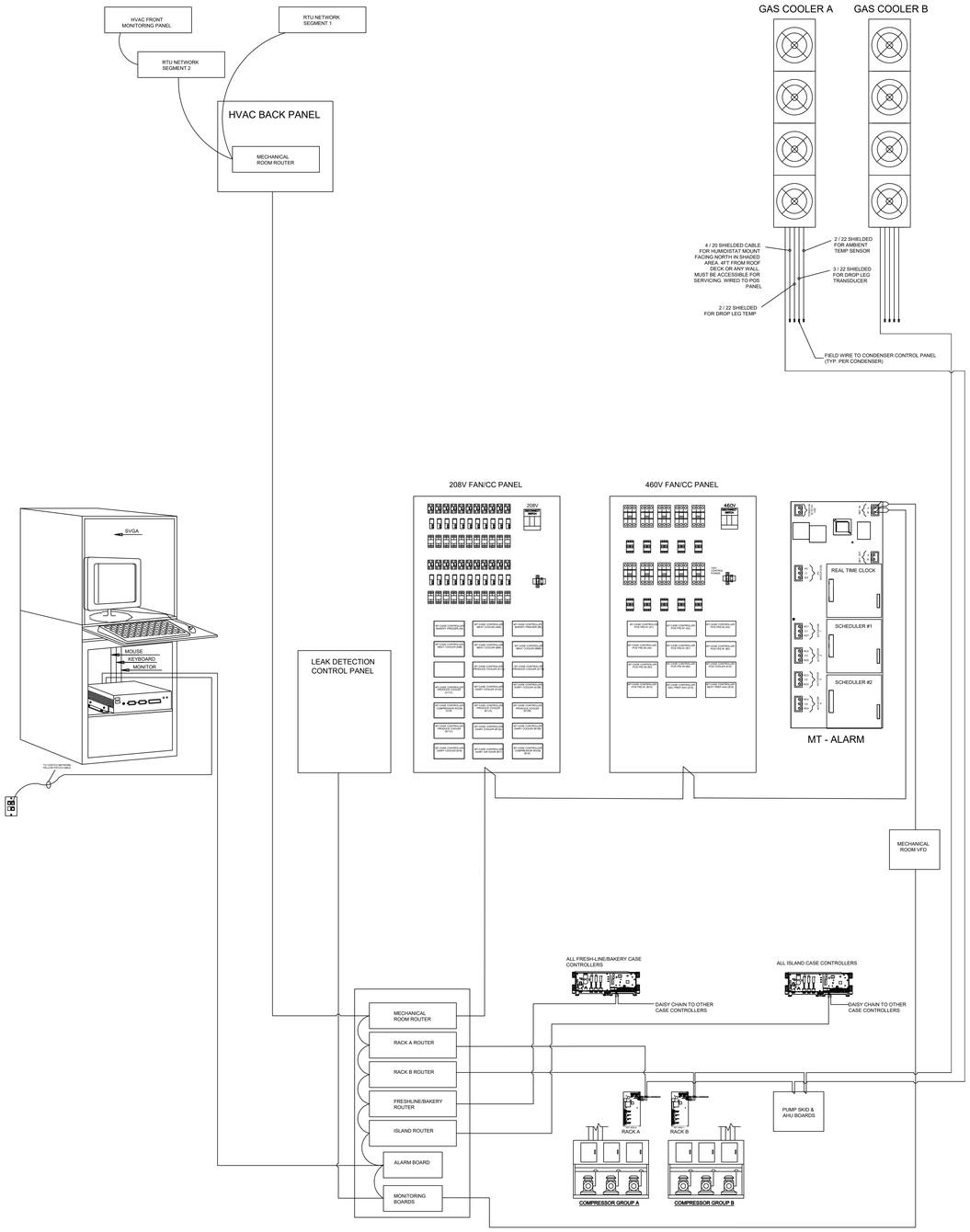
GENERAL NOTES:

1. REFERENCE FLOOR PLAN MAY NOT MATCH ALL WAREHOUSE FLOOR PLANS.
2. ROUTERS LOCATED IN MT CABINET OR REMOTE ROUTER PANEL AS DETERMINED BY RACK OEM.
3. USE ECHELON TYPE 2#16-STRANDED, 19/29 UTP (UNSHIELDED TWISTED PAIR) BELDEN 8471 TYPE OR EQUIVALENT, UNLESS OTHERWISE SPECIFIED.
4. EACH ROUTER CANNOT EXCEED 50 CASE CONTROLLERS AND 1300 FEET OF CABLE LENGTH.

MICRO THERMO REFERENCE FLOOR PLAN CABLE DETAIL

SCALE	2
NONE	

NOTE:
APPROXIMATE LAYOUT



LEGEND

FIELD WIRED ECHELON TYPE 2#16, STRANDED, 19/29 UTP (UNSHIELDED TWISTED PAIR) BELDEN 8471

MICRO THERMO NETWORK WIRING DETAIL

SCALE	3
NONE	

Cushing Terrell
cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE SUMMIT, MO

12.23.2025

© 2025 | ALL RIGHTS RESERVED

PERMIT

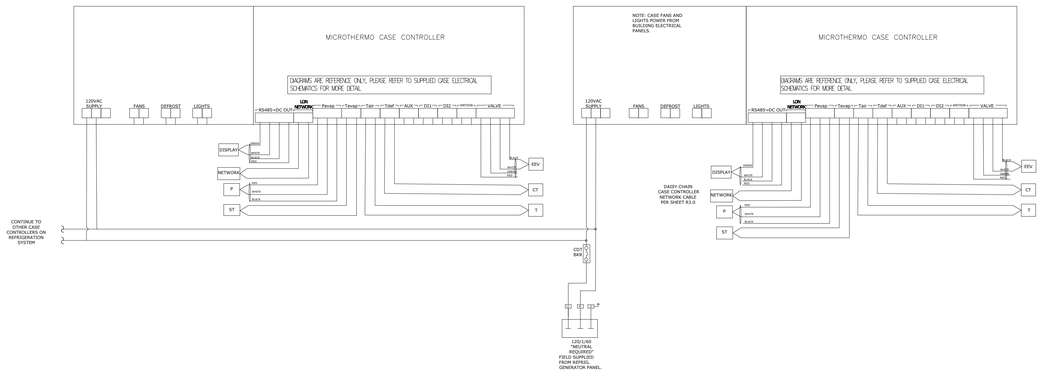
12.22.2025
PROJECT# | COSTCO
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

MICRO THERMO DETAILS

R7.2

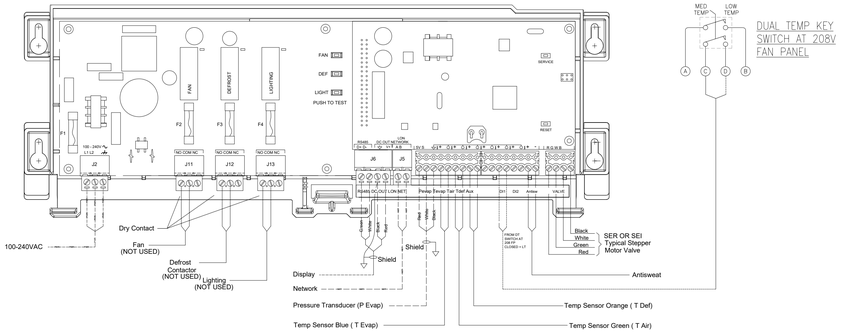
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:59

Cushing Terrell
cushingterrell.com
800.757.9522



CASE LINE-UP CONTROLLERS WIRED IN SERIES

SCALE	
NONE	1

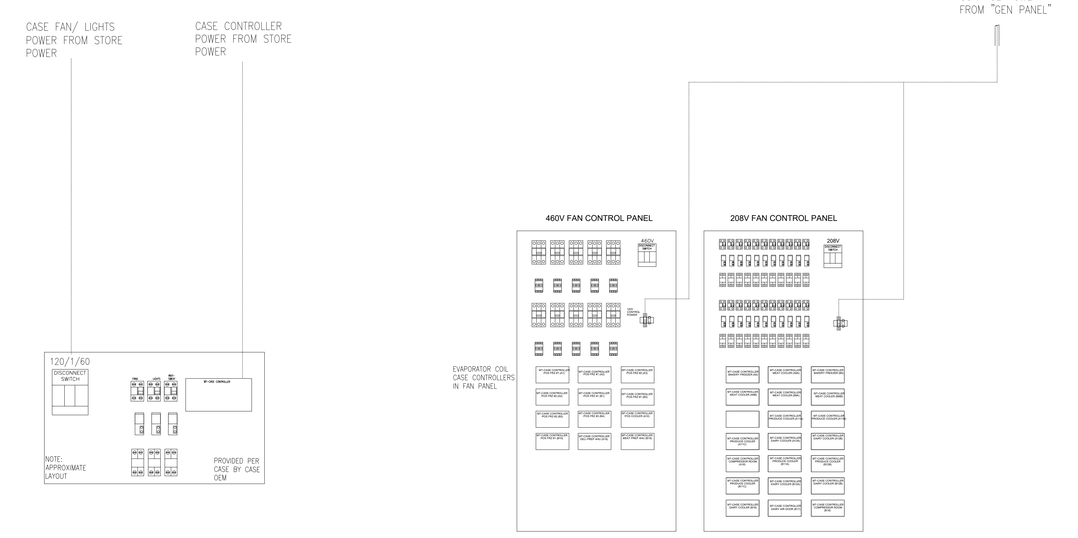


NOTE: THIS IS A GENERIC DETAIL PROVIDED BY MICRO THERMO

MICRO-THERMO CASE CONTROLLER DETAIL (GENERIC DETAIL PROVIDED BY MICRO THERMO)

SCALE	
NONE	2

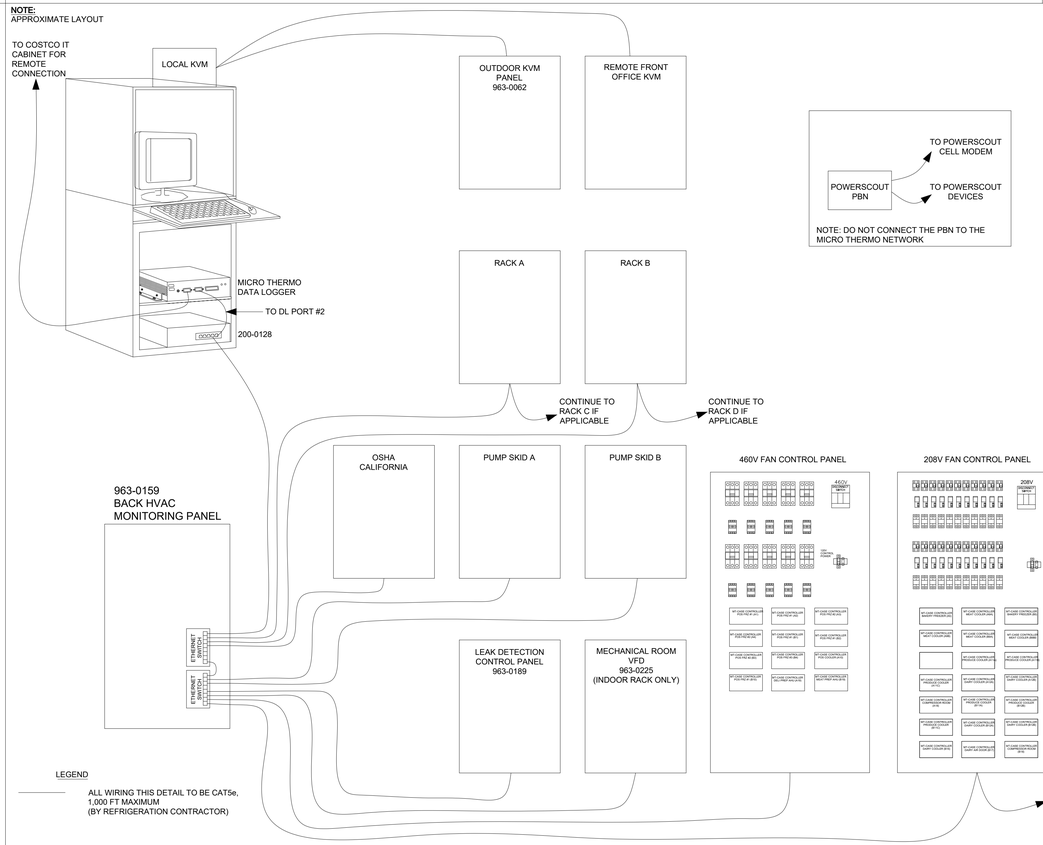
NOTE:
APPROXIMATE LAYOUT



GENERAL NOTES:
1. SEE RACK OEM SUBMITTALS FOR INTERIOR PANEL NETWORK AND POWER WIRING DIAGRAMS.
2. DAISY CHAIN POWER FOR ALL ISLAND/ FRESH-LINE/ BAKERY CASE CONTROLLERS ON A SINGLE CIRCUIT. MAXIMUM 10W PER CC.

FAN PANEL & CASE CONTROLLER LAYOUT

SCALE	
NONE	3



MICRO THERMO CAT5 WIRING DETAIL

SCALE	
NONE	4

REFRIGERATION
COSTCO WHOLESALE
LEE SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. [illegible]
NUMBER PE-2016017218
PROFESSIONAL ENGINEER
12.23.2025

© 2025 | ALL RIGHTS RESERVED

PERMIT

12.22.2025
PROJECT# | COSTCO
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

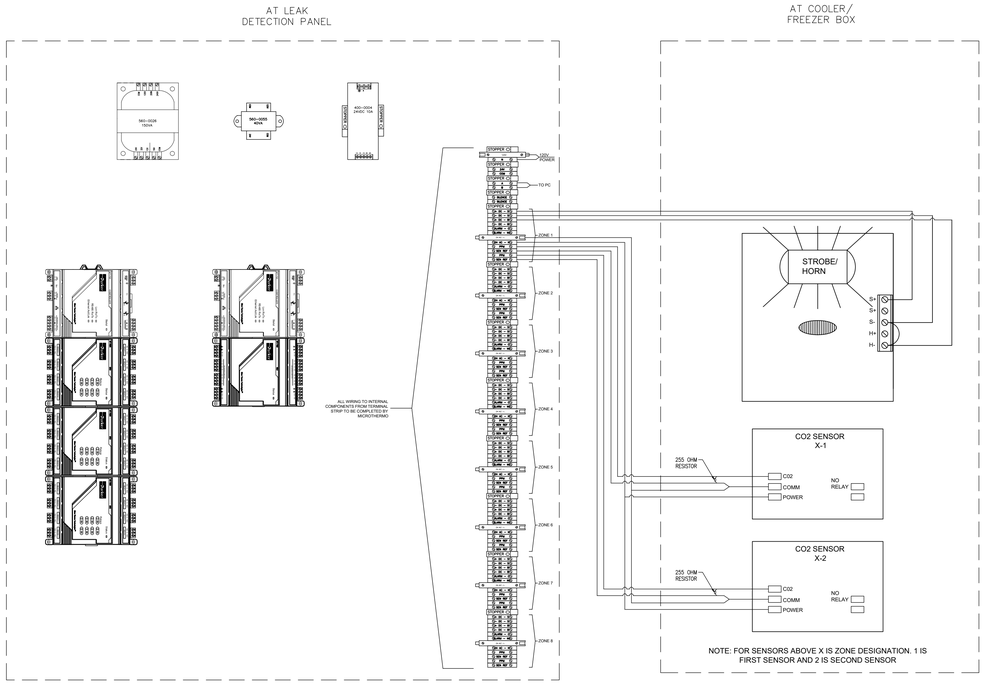
MICRO THERMO DETAILS

R7.3

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:59

GENERAL NOTES

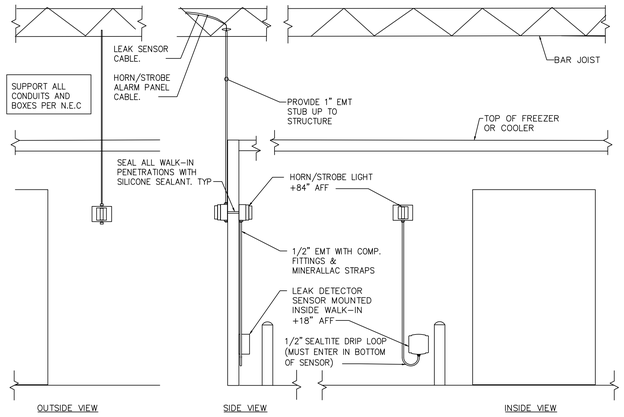
1. USE DEDICATED TRANSFORMER FOR SENSORS AND BOARDS.
2. 255 OHM RESISTOR MUST BE INSTALLED AT SENSOR NODE.



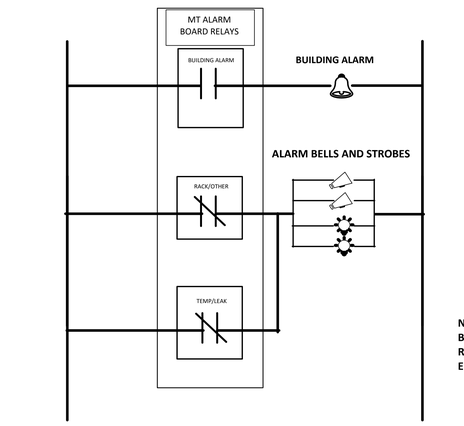
LEAK DETECTION DETAILS | SCALE NONE | 1

SIGN AT COOLERS/FREEZERS:

IF BLUE LIGHT AND HORN ACTIVATE, DO NOT ENTER. UNSAFE OXYGEN LEVEL MAY EXIST, EVACUATE AREA IMMEDIATELY.



LEAK DETECTION EQUIPMENT LAYOUT | SCALE NONE | 2



NOTE:
BUILDING ALARM SHOULD BE TERMINATED ON THE N.O. CONTACTS OF THE RELAY. THE RELAY SHOULD BE IN AN ENERGIZED STATE DURING NORMAL OPERATION AND DE-ENERGIZED STATE FOR AN ALARM CONDITION OR COMMUNICATION LOSS.

ALARM WIRING DETAIL | SCALE NONE | 3

	LEAK DETECTION SYSTEM OUTPUTS			
SYSTEM INPUTS	DISPLAY THE ALARM ON ALLIANCE	START THE HORN & STROBE IN THE STORE	CALL THE MONITORING CENTER	TRIGGER THE BUILDING ALARM RELAY
1 LEAK DETECTION SYSTEM HIGH LEVEL (GREATER THAN 2,500 PPM)	x	x	x	X
2 LEAK DETECTION SYSTEM LOW LEVEL (GREATER THAN 1,500 PPM)	X	X	X	X
3 LEAK DETECTION SYSTEM - TROUBLE	X		X	X

System	Description	System/Refrigerant
Zone 1	POS Freezer #1	SEE REFRIGERATION SCHEDULE
Zone 2	POS Freezer #2	SEE REFRIGERATION SCHEDULE
Zone 3	POS Cooler	SEE REFRIGERATION SCHEDULE
Zone 4	Meat Cooler	SEE REFRIGERATION SCHEDULE
Zone 5	Bakery Cooler	SEE REFRIGERATION SCHEDULE
Zone 6	Bakery Freezer	SEE REFRIGERATION SCHEDULE
Zone 7	Machine Room	SEE REFRIGERATION SCHEDULE
Zone 8	**<Add additional Zone>**	

LEAK DETECTION SYSTEM DESIGNATIONS & ALARM SEQUENCE | SCALE NONE | 4

Cushing Terrell
cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. DeWITT
NUMBER PE-2016017218
PROFESSIONAL ENGINEER
12.23.2025

© 2025 | ALL RIGHTS RESERVED

PERMIT

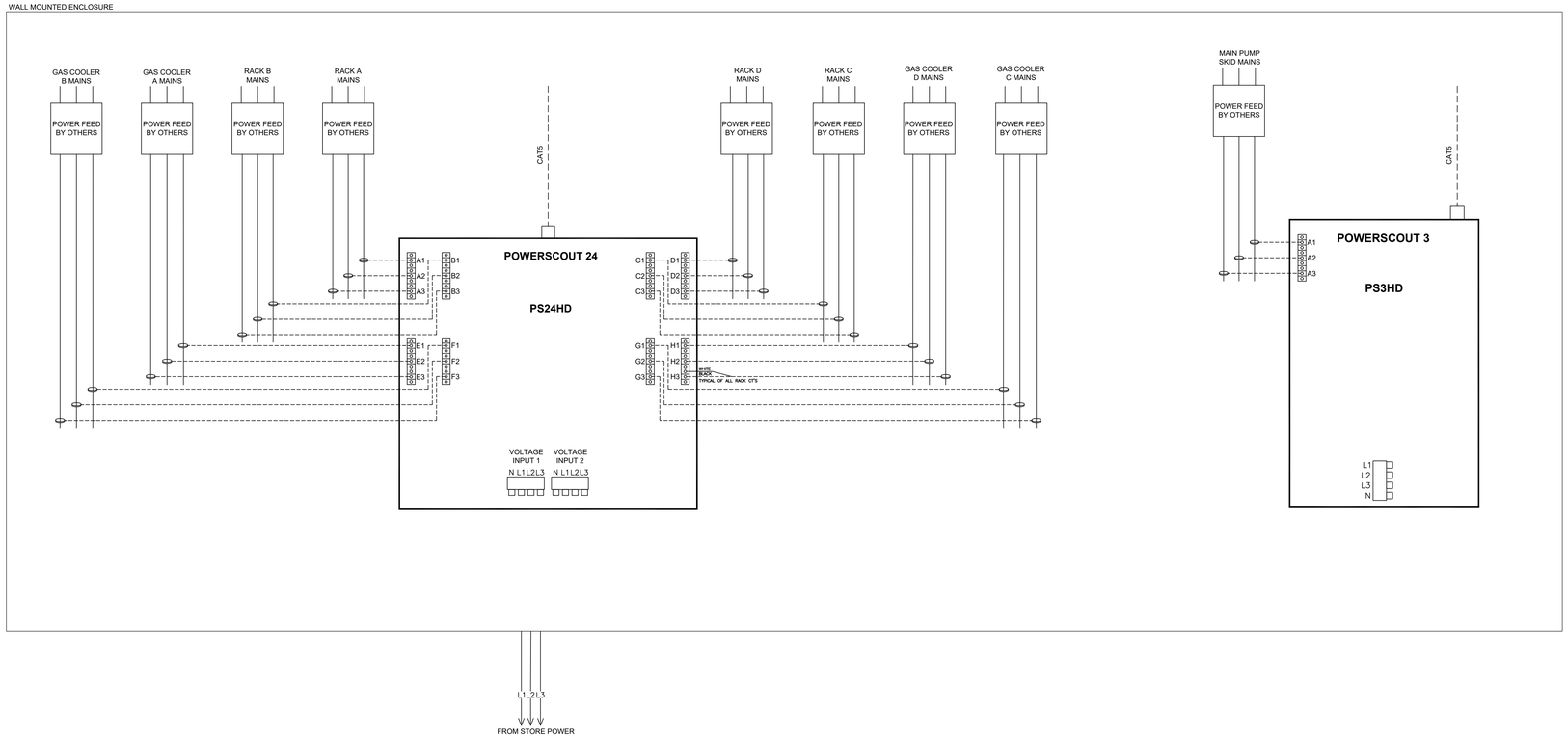
12.22.2025
PROJECT# | COSTCO
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

LEAK DETECTION DETAILS

R7.4

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:59

WALL MOUNTED ENCLOSURE



---------- DENOTES FIELD WIRING
USE COPPER CONDUCTORS ONLY.

CHECK AND TIGHTEN ALL ELECTRICAL CONNECTIONS BEFORE ENERGIZING EQUIPMENT.

WALL MOUNTED ENFLEX METERING PANEL DETAIL — SCALE: NONE — 1

NOT USED — SCALE: NONE — 2

NOT USED — SCALE: NONE — 3

Cushing Terrell
cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. DIETERT
NUMBER PE-2010017318
PROFESSIONAL ENGINEER

12.23.2025

© 2025 | ALL RIGHTS RESERVED

PERMIT

12.22.2025
PROJECT# | COSTCO
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

POWERSCOUT DETAILS

R7.5

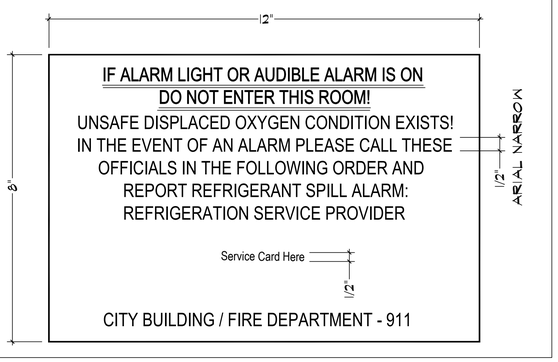
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Jan 05, 2026 13:03:59

Cushing Terrell
cushingterrell.com
800.757.9522

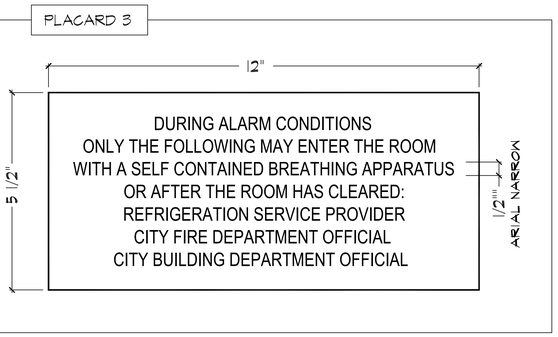
PLACARD 1

WHITE LETTERING ON RED BACKGROUND (TYPICAL)

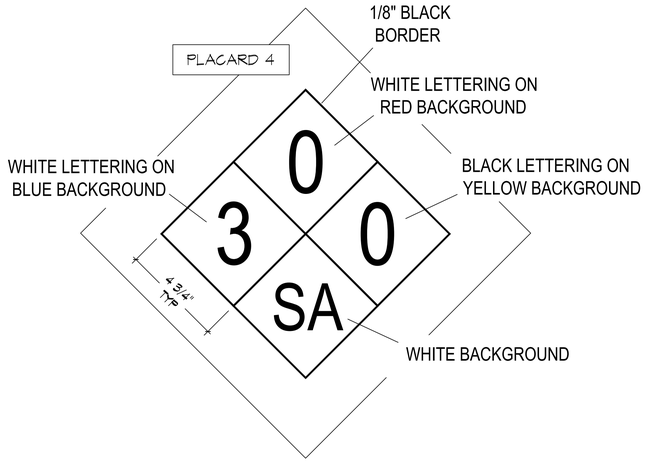
PLACARD 2

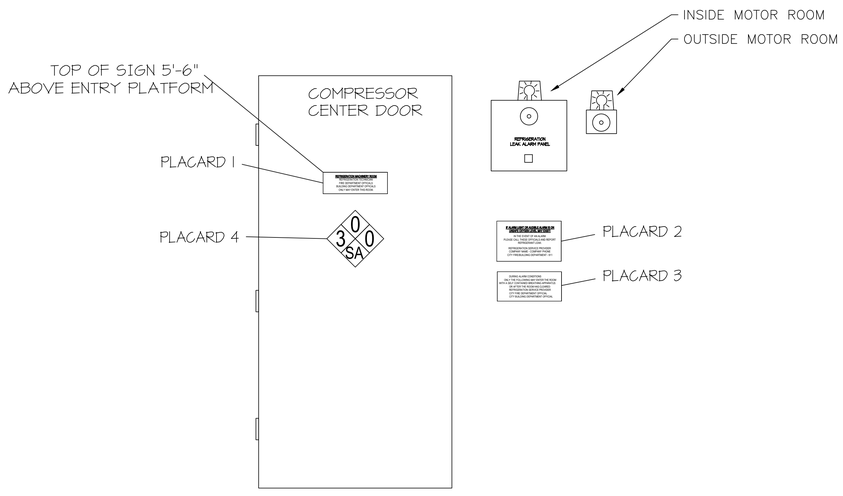


PLACARD 3



PLACARD 4



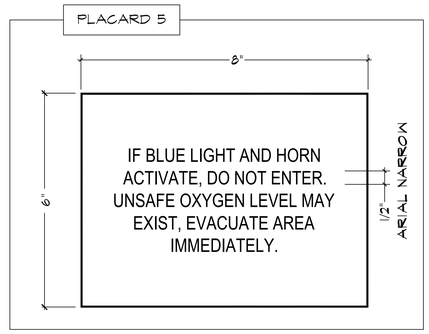


NOTE: ALL REFRIGERATION SIGNAGE BY REFRIGERATION CONTRACTOR.

COMPRESSOR CENTER ENTRANCE

SCALE: N/A

PLACARD 5



NOTE: PLACARD 5 TO BE INSTALLED AT EVERY COOLER/FREEZER WITH LEAK DETECTION. BOTTOM OF PLACARD TO BE 8" ABOVE DOOR JAMB, CENTER OF OPENING. BLUE LIGHT TO BE CENTERED ABOVE PLACARD. PLACARD TO BE 1/16" THICK AND PROVIDED WITH PRE-DRILLED HOLES.

REFRIGERATION
COSTCO WHOLESALE
LEE SUMMIT, MO

12.23.2025

© 2025 | ALL RIGHTS RESERVED

PERMIT

12.22.2025
PROJECT# | COSTCO
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATION ALARM PLACARD DETAILS

R7.6

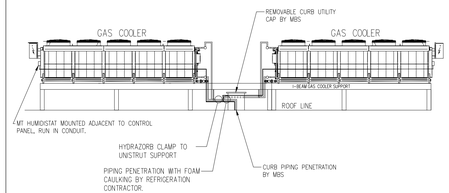
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEES SUMMIT, MISSOURI
12.19.2025 03:59

NOT USED | SCALE 1/8"=1'-0" | 1

NOT USED | SCALE 1/8"=1'-0" | 2

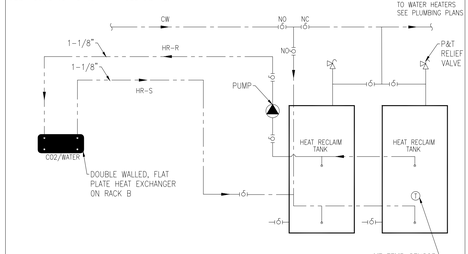
NOT USED | SCALE 1/8"=1'-0" | 3

NOTE:
- ALL DISCHARGE REFRIGERATION LINES WILL BE PAINTED WITH "SILVER SEAL" OR APPROVED EQUAL.
- ALL LIQUID LINES INSULATED AND WRAPPED.
- ALL GAS COOLERS MUST BE MOUNTED LEVEL AND TRUE IN BOTH DIRECTIONS.
- GAS COOLER MUST BE BOLTED TO ROOF CURBS.



GAS COOLER PLATFORM LAYOUT | SCALE NONE | 4

THIS DETAIL FOR COORDINATION ONLY.
SEE PLUMBING PLANS FOR FULL DETAIL.



NOTE:
ALL REFRIGERATION PIPING, VALVES AND THERMOSTATS PROVIDED AND INSTALLED BY RC.
HEAT RECLAIM TANKS SET BY RC.

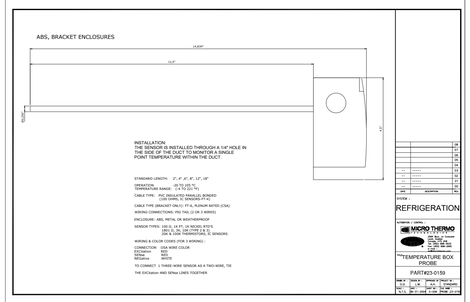
ALL WATER PIPING, VALVES, PUMP AND CONNECTIONS PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR

HEAT RECLAIM TANK PIPING (2 TANKS) | SCALE NONE | 5

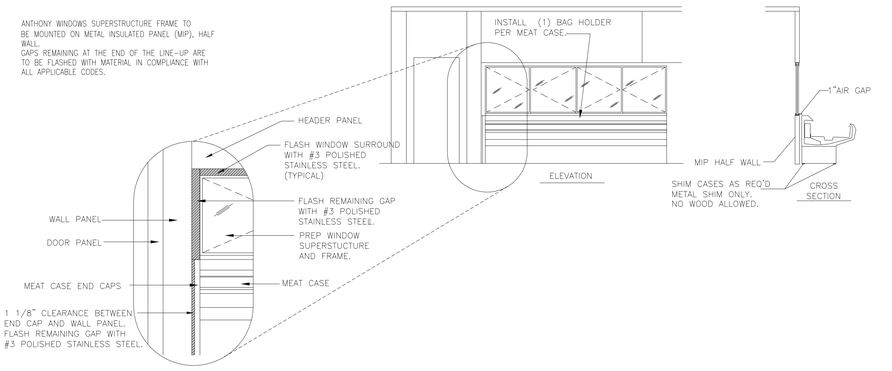
NOT USED | SCALE 1/8"=1'-0" | 6

NOT USED | SCALE 1/8"=1'-0" | 7

TYP. WALK-IN TEMPERATURE PROBE | SCALE 1/8"=1'-0" | 8

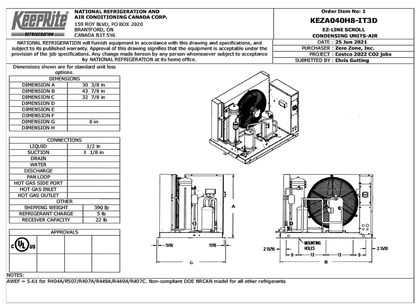


ANTHONY WINDOWS SUPERSTRUCTURE FRAME TO BE MOUNTED ON METAL INSULATED PANEL (MIP), HALF WALL.
GAPS REMAINING AT THE END OF THE LINE-UP ARE TO BE FLASHED WITH MATERIAL IN COMPLIANCE WITH ALL APPLICABLE CODES.



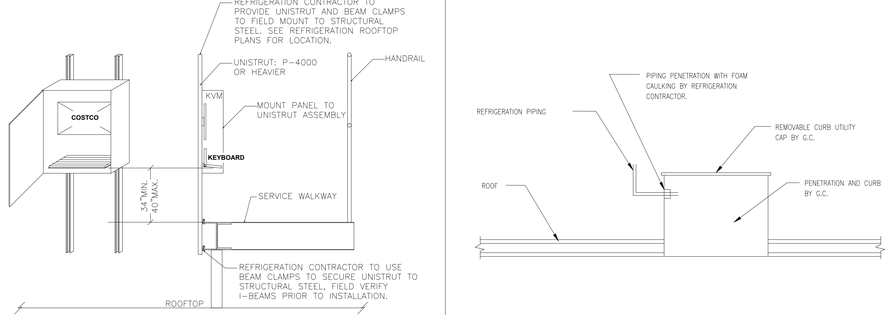
PREP WINDOWS SUPERSTRUCTURE MOUNTING DETAIL | SCALE NONE | 9

NOT USED | SCALE 1/8"=1'-0" | 10

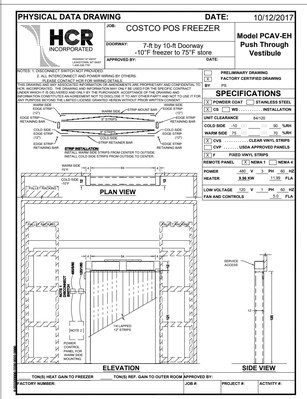


KEEPRITE KEZA CONDENSING UNIT | SCALE 1/8"=1'-0" | 10

ROOFTOP KVM MOUNTING DETAIL | SCALE NONE | 11



TYPICAL CURB PENETRATION | SCALE NONE | 12



THE CONTRACTOR WILL SEAL THE OUTSIDE AND OUTER TOP GAP BETWEEN THE HCR AIR DOOR FRAME AND THE COOLER PANEL. THE FOLLOWING STEPS WILL BE PERFORMED:

SURFACE PREPARATION:

INSPECT THE GAP BETWEEN THE HCR AIR DOOR FRAME AND THE COOLER PANEL TO ENSURE IT IS CLEAN AND FREE OF DEBRIS. CLEAN AND PREPARE THE SURFACES TO ENSURE PROPER ADHESION OF THE SEALING MATERIALS.

GAP SEALING:

INSERT FOAM BACKER ROD INTO THE GAP TO PROVIDE SUPPORT FOR THE SEALING MATERIALS. APPLY A HIGH-QUALITY BUTYL CAULK WITHIN THE GAP, ENSURING COMPLETE COVERAGE TO CREATE AN AIRTIGHT AND MOISTURE-RESISTANT SEAL.

COVER INSTALLATION:

INSTALL A WHITE ANGLE METAL COVER OVER THE SEALED GAP. SECURE THE METAL COVER TO CONCEAL THE SEAM AND PROVIDE A CLEAN, FINISHED APPEARANCE.

INSPECTION AND CLEANUP:

INSPECT THE SEALED AREA TO ENSURE PROPER ADHESION AND COVERAGE. CLEAN UP ANY EXCESS CAULK OR DEBRIS FROM THE INSTALLATION PROCESS.

MATERIALS TO BE USED:

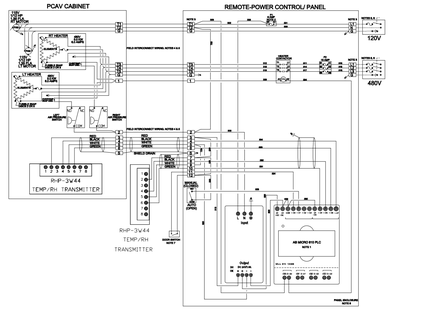
FOAM BACKER ROD, BUTYL CAULK & WHITE ANGLE METAL COVER

ENSURE GAP IS FULLY SEALED AND CONCEALED. CLEAN, PROFESSIONAL FINISH WITH NO VISIBLE GAPS OR CAULK RESIDUE.

DATE: 02.2025

POS FREEZER HCR-PCAV AIR DOOR | SCALE NONE | 13

MODEL PCAV-ST-PLC-EH WIRING DIAGRAM (480V/120V)
PATENT PENDING



HCR-PCAV AIR DOOR WIRING DIAGRAM | SCALE NONE | 14

ALL VALVES TO BE CONSIDERED "NO" UNLESS OTHERWISE INDICATED.
NO = NORMALLY OPEN
NC = NORMALLY CLOSED

AUTOMATIC AIR VENT SUITABLE FOR USE IN DOMESTIC WATER SYSTEM INSTALL WITHIN 4' OF PUMP (TYP)

TO WATER METER IN BAKERY. SEE DETAIL 1/P003.

ALL WATER PIPING, VALVES, PUMP AND CONNECTIONS PROVIDED AND INSTALLED BY G.C. PLUMBING

NOTES:
INSULATE ALL PIPING IN CHILLED WATER SYSTEM AS SHOWN. INCLUDING ALL VALVES, PUMPS, AND HANGER SUPPORTS. INSULATION TO BE ARMACELL ARMA FLEX AP CLOSED CELL.

ROUTE ALL DRAINS PIPING TO NEAREST FLOOR SINK.

CWST-1 TANK SET BY PC.

CHILLED WATER CIRCULATION PUMP SCHEDULE
PROVIDED BY CONTRACTOR / INSTALLED BY CONTRACTOR

PLAN CODE	TYPE	MFGR	MODEL	GPM	HEAD (FT W.C.)	RPM	HP	POWER	REMARKS
CWCP-1	CENTRIFUGAL	TACO	009-F5	2	10	3250	1/8	115/1/60	1,3,4
CWCP-2	CENTRIFUGAL	TACO	009-F5	2	10	3250	1/8	115/1/60	1,2,3,4

REMARKS:
1) PROVIDE WITH 7 DAY, DIGITAL PROGRAMMABLE TIMER OR TIMER AND AQUASTAT. SEE DETAIL 8/P003.
2) AQUASTAT CONTROL FOR CIRC. PUMP SETTINGS: ON -42°F OFF -40°F DURING OCCUPIED HOURS.
3) TIMER CONTROL FOR CIRC. PUMP: OFF DURING UNOCCUPIED HOURS.
4) DEVICE TO BE LISTED FOR USE IN POTABLE WATER SYSTEMS.

CHILLED WATER STORAGE TANK

PLAN CODE	SERVICE	MFGR	MODEL	LOCATION	FUEL TYPE	FUEL INPUT (MBH)	STOR. (GAL.)	EFF. %	RECOVERY (GPH)	POWER (V/PH/Hz)	WEIGHT (LBS)	NOTES
CWST-1	BAKERY METER	TACO	BTL0050	BAKERY COOLER PLATFORM	N/A	N/A	50	N/A	N/A	N/A	610	1,2

NOTES:
1) 50 GALLON CARBON STEEL STORAGE TANK TO BAKERY COOLER PLATFORM.
2)TANK TO BE PROVIDED BY PLUMBING CONTRACTOR.
3) SHIPPING WEIGHT = 190 LBS. WATER WEIGHT = 420 LBS. TOTAL WEIGHT = 610 LBS.

BAKERY WATER CHILLER DETAIL AND EQUIPMENT SCHEDULES | SCALE NONE | 17

UNIT WEIGHT: 2,438 LBS MAXIMUM

KOHLER KG45 DETAILS | SCALE NONE | 18

DIMENSIONS:	A	B	C	D	E	F	G	H
X INCHES	120	168	30	120	137	48	14	18
MM	71	61	5	11	1			
	I	J	K	L	M	N	O	P

NOTE:
FLOOR BOLTS TO BE GROUND ANCHORED INTO CONCRETE WITH THE HEAD OF BOLT ON TOP OF THE FLOOR PLATE.

HCR AIR CURTAIN TO BE INSTALLED AND CALIBRATED TO SPEC BY REFRIGERATION INSTALLER

HCR-AC-CS AIR CURTAIN DETAIL | SCALE NONE | 19

Cushing Terrell

cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. WHEELER
NUMBER PE-2016017218
PROFESSIONAL ENGINEER
12.23.2025

© 2025 | ALL RIGHTS RESERVED

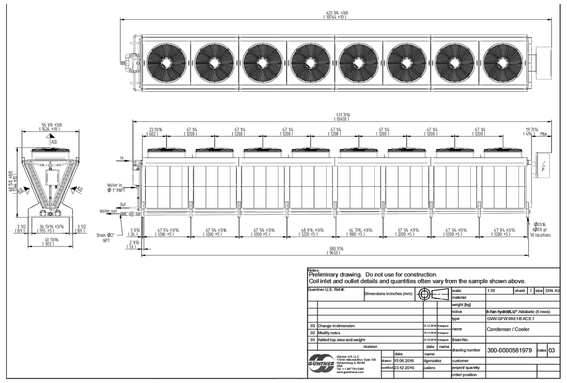
PERMIT

12.22.2025
PROJECT# | COSTCO
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATION DETAILS

R8.0

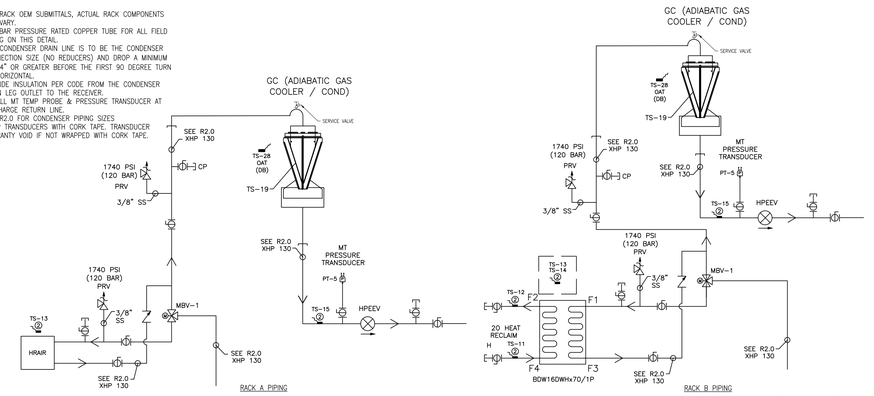
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:03:59



GUNTNER ADIABATIC GAS COOLER

SCALE NTS 1

NOTES:
1. SEE RACK OEM SUBMITTALS, ACTUAL RACK COMPONENTS MAY VARY.
2. 120 BAR PRESSURE RATED COPPER TUBE FOR ALL FIELD PIPING ON THIS DETAIL.
3. THE CONDENSER DRAIN LINE IS TO BE THE CONDENSER CONNECTION SIZE (NO REDUCERS) AND DROP A MINIMUM OF 14" OR GREATER BEFORE THE FIRST 90 DEGREE TURN TO HORIZONTAL.
4. PROVIDE INSULATION PER CODE FROM THE CONDENSER DRAIN LEG OUTLET TO THE RECEIVER.
5. INSTALL MT TEMP PROBE & PRESSURE TRANSDUCER AT DISCHARGE RETURN LINE.
6. SEE R2.0 FOR CONDENSER PIPING SIZES
7. WRAP TRANSDUCERS WITH CORK TAPE. TRANSDUCER WARRANTY VOID IF NOT WRAPPED WITH CORK TAPE.



HEAT RECLAIM & CONDENSER PIPING DIAGRAMS

SCALE NTS 2

SCALE NTS 3

NOT USED — SCALE NTS 4

NOT USED — SCALE NTS 5

NOT USED — SCALE NTS 6

NOT USED — SCALE NTS 7

NOT USED — SCALE NTS 8

NOT USED — SCALE NTS 9

NOT USED — SCALE NTS 10

NOT USED — SCALE NTS 11

NOT USED — SCALE NTS 12

NOT USED — SCALE NTS 13

NOT USED — SCALE NTS 14

NOT USED — SCALE NTS 15

NOT USED — SCALE NTS 16

NOT USED — SCALE NTS 17

NOT USED — SCALE NTS 18

Cushing Terrell

cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. HEITSCH
NUMBER PE-2016017218
PROFESSIONAL ENGINEER

12.23.2025

© 2025 | ALL RIGHTS RESERVED

PERMIT

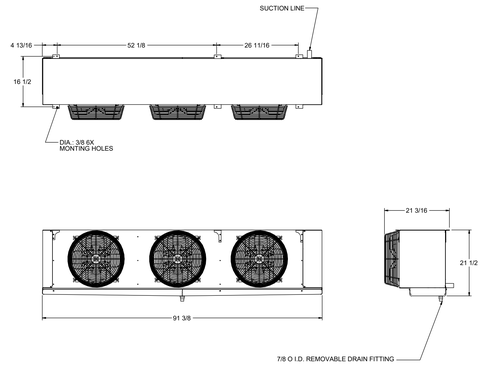
12.22.2025
PROJECT# | COSTCO
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

CONDENSER DETAILS

R8.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:04:00

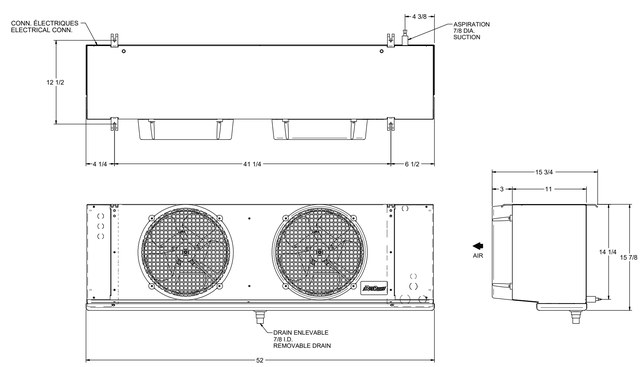
ELECTRICAL DATA
240V/1/60
9.10A PER UNIT



MOTOR ROOM AC

EKA–4207–2 276LBS | SCALE NTS | 1

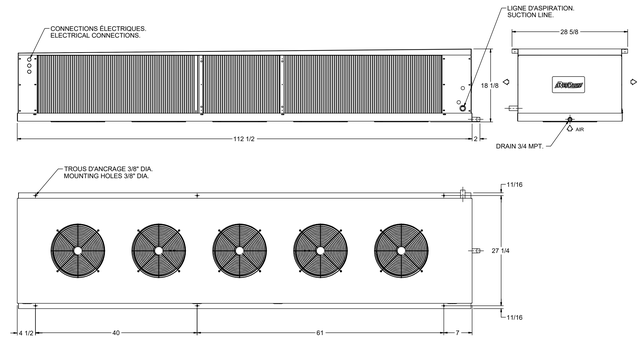
ELECTRICAL DATA
240V/1/60
1.8 AMPS PER UNIT



FOOD SERVICE

LSA1301–2 47LBS | SCALE NTS | 2

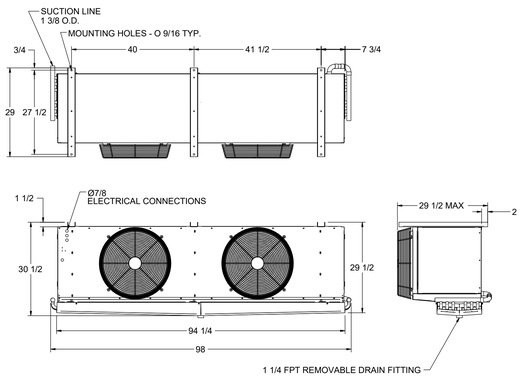
ELECTRICAL DATA
240V/1/60
3.41 AMPS PER UNIT (FAN)
8.34 AMPS PER UNIT (HEATER)



SHOP–IN PRODUCE COOLER

LAG–4007–2 327LBS | SCALE NTS | 3

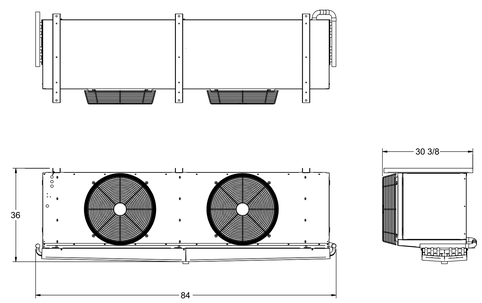
ELECTRICAL DATA
240V/1/60
11.92 AMPS PER UNIT



BAKERY FREEZER

EMR4800–2 430LBS | SCALE NTS | 4

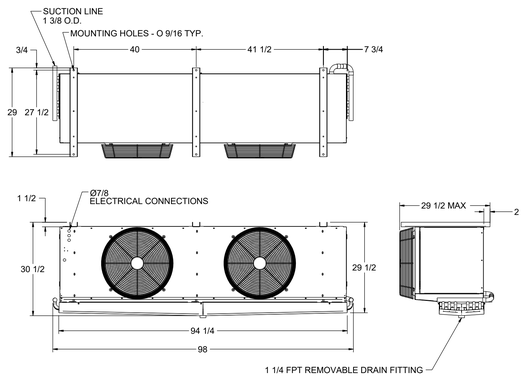
ELECTRICAL DATA
240V/1/60
11.93 AMPS PER UNIT



MEAT COOLER

EMR–4807–2 512LBS | SCALE NTS | 5

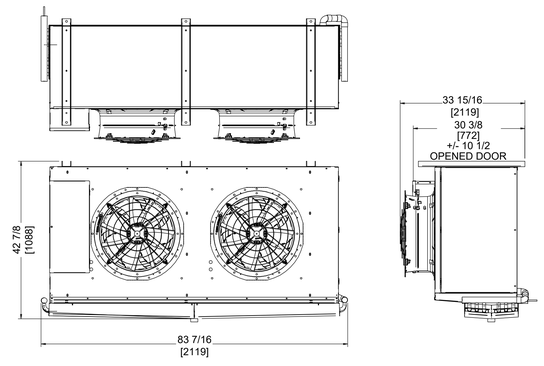
ELECTRICAL DATA
240V/1/60
11.92 AMPS PER UNIT



SHOP–IN DAIRY COOLER

EMR5800–2 482LBS | SCALE NTS | 6

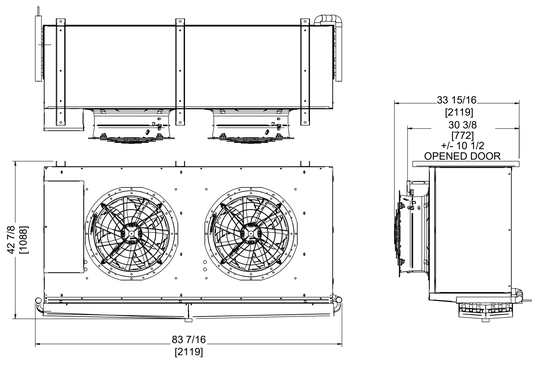
ELECTRICAL DATA
460V/3/60
4.28A PER UNIT



POS COOLER

EJR–5907–9–ZSP 637LBS | SCALE NTS | 7

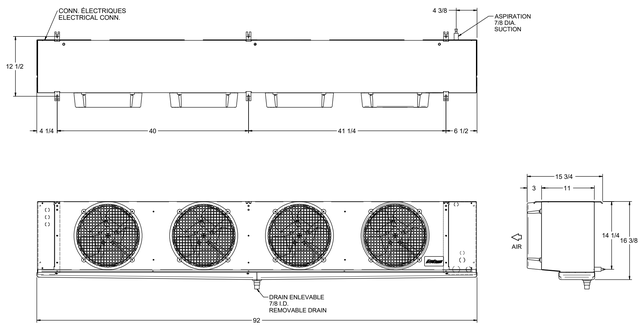
ELECTRICAL DATA
460V/3/60
4.28A PER UNIT



POS FREEZERS

EJR–8907–9–ZSP 702LBS | SCALE NTS | 8

ELECTRICAL DATA
240V/1/60
2.55 AMPS PER UNIT



BAKERY COOLER

LSR–2207–2 95LBS | SCALE NTS | 9

SCALE NTS | 10

SCALE NTS | 11

SCALE NTS | 12

Cushing Terrell

cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P
NUMBER
PE-2016037218
PROFESSIONAL ENGINEER

12.23.2025

© 2025 | ALL RIGHTS RESERVED

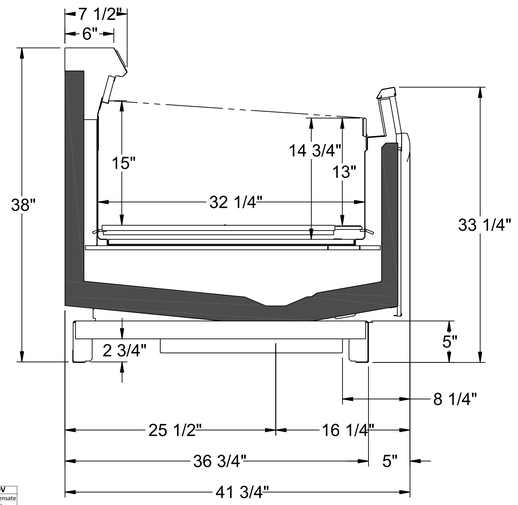
PERMIT

12.22.2025
PROJECT# | COSTCO
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

EVAPORATOR DETAILS

R8.2

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Dec 23, 2025 4:04:00



MALMOE M1 (COSTCO)

Lighting Characteristics @ 120V

Case Length	Fluorescent T5 Lighting		AGL LED Lighting	
	Amps	Watts	Amps	Watts
8'	N/A	N/A	N/A	N/A
12'	N/A	N/A	N/A	N/A

Electrical Characteristics @ 120V

Case Length	Fan Quantity	High-Efficiency Fans (ECM)		Anti-Condensate Heaters	
		Amps	Watts	Amps	Watts
8'	2	0.22	14	0.42	50
12'	3	0.33	21	0.63	75

Total Refrigeration Characteristics (Direct Expansion)

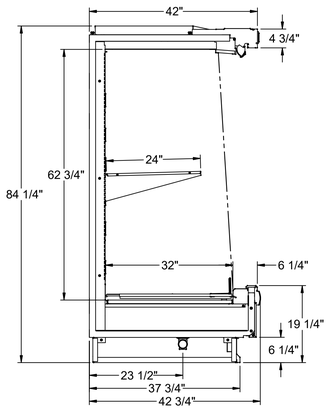
Application	Total BTU/Hr		SST (°F)	SuperHeat (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)	Fan Speed (RPM)
	Parallel	Conv.					
8' - Medium Temperature	2690	3070	22	6-8	27	300	800
12' - Medium Temperature	4035	4605	22	6-8	27	300	800

Defrost Settings (Direct Expansion)

Defrost Type	Defrosts (Day)	Fail Safe (Min.)	Termination Temperature (F)	Drip Time (Min)
Off Cycle	4	45	42°F	0

1. ArnegUSA refrigerated display cases for sale in the United States meet or exceed Department of Energy 2017 energy efficiency requirements.
2. Recommended Settings for Conventional Discharge Air Control: Cut-In Temp = Field Discharge Air +2°F, Cut-Out Temp = Field Discharge Air -2°F.
3. Average Discharge Air Velocity measure five minutes after defrost.
4. Amps are taken from electrical nameplate values, watts are actual recorded values from laboratory measurements.

ARNEG M1 – D2U00162 | SCALE NTS | 1



D5 105/205 (COSTCO)

Lighting Characteristics @ 120V

Case Length	Arneg LED Lighting (Per Row)					
	Shelving		Canopy (Normal)		Canopy (Warm)	
	Amps	Watts	Amps	Watts	Amps	Watts
4'	0.08	10	0.16	20	0.16	20
6'	0.13	15	0.26	30	0.26	30
8'	0.16	20	0.33	40	0.33	40
12'	0.24	30	0.5	60	0.5	60

Electrical Characteristics @ 120V

Case Length	Fan Quantity	High-Efficiency Fans (ECM)		High-Efficiency Fans (ECM)	
		Dairy/Deli (Total)		Meat (Total)	
		Amps	Watts	Amps	Watts
4'	2	0.92	25	0.92	39
6'	3	1.38	37	1.38	59
8'	4	1.84	49	1.84	78
12'	6	2.76	74	2.76	117

Refrigeration Characteristics

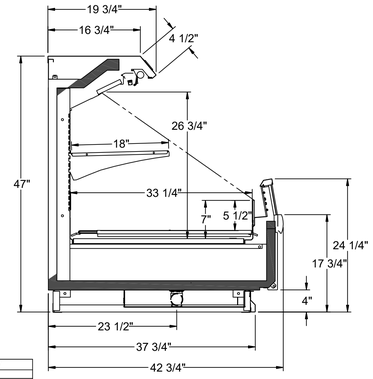
Front Height	Application	BTUH/Ft		Evaporator Temperature (°F)	Superheat (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)
		Parallel	Conv.				
High	Meat	1415	1522	27	6-8	30	400 - 500
High	Dairy/Deli/Cut Produce	1286	1377	32	6-8	34	350 - 450

Defrost Settings

Defrost Type	Defrosts (Day)	Fail Safe (Min.)	Termination Temperature (°F)	Drip Time (Min)
Off Cycle / Meat	6	30	48°F	0
Off Cycle / Dairy	6	15	48°F	0

NOTES
1. ArnegUSA refrigerated display cases for sale in the United States meet or exceed Department of Energy 2017 energy efficiency requirements.
2. Add 13 BTUH/Ft. per row of additional LED canopy lighting. Add 10 BTUH/Ft per row of LED shelf lighting.
3. Variations on Lighting brands may be available upon request and Engineering review.
4. Recommended Settings for Conventional Discharge Air Control: Cut-In Temp = Field Discharge Air +2°F, Cut-Out Temp = Field Discharge Air -2°F.
5. Average Discharge Air Velocity measured five minutes after defrost.
6. Listed evaporator temperature indicates unlighted shelves. For lighted shelves and/or aftermarket merchandising accessories, reduce the listed evaporator temperature by 1°F.
7. Amps are taken from electrical nameplate values, watts are actual recorded values from laboratory measurements.
8. When using high glide refrigerants please use the refrigerant manufacturers instructions for measuring superheat.
9. Temperature and defrost settings listed above are recommended start up settings. Final operational settings may need to be adjusted based on store conditions.

ARNEG D5 – D2U20028 | SCALE NTS | 2



Lighting Characteristics @ 120V

Case Length	Arneg LED Lighting (Per Row)					
	Shelving		Canopy (Normal)		Canopy (Warm)	
	Amps	Watts	Amps	Watts	Amps	Watts
6'	0.13	15	0.26	30	0.26	30
8'	0.17	20	0.33	40	0.33	40
12'	0.27	30	0.5	60	0.5	60

Electrical Characteristics @ 120V

Case Length	Fan Quantity	High-Efficiency Fans (ECM)	
		Meat/Dairy (Total)	
		Amps	Watts
6'	3	0.9	18
8'	4	1.2	24
12'	6	1.5	36

Refrigeration Characteristics

Front Height	Application	BTUH/Ft		SST (°F)	SuperHeat (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)
		Parallel	Conv.				
Low w/Glass	Dairy	780	813	32	6-8	35	200 - 400
Low w/Glass	Meat	845	946	27	6-8	30	200 - 400

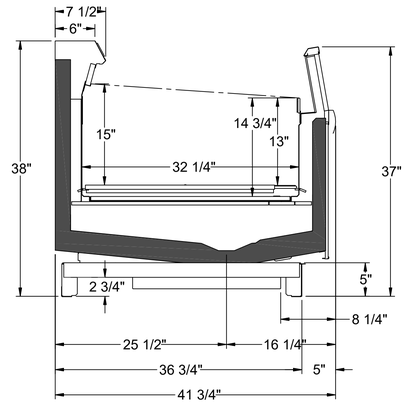
Defrost Settings

Defrost Type	Defrosts (Day)	Fail Safe (Min.)	Termination Temperature (°F)	Drip Time (Min)
Off Cycle	6	30	45°F	0

NOTES
1. ArnegUSA refrigerated display cases for sale in the United States meet or exceed Department of Energy 2017 energy efficiency requirements.
2. Add 13 BTUH/ Ft per row of additional LED canopy lighting. Add 10 BTUH/Ft per row of LED shelf lighting.
3. Variations on Lighting brands may be available upon request and Engineering review.
4. Recommended Settings for Conventional Discharge Air Control: Cut-In Temp = Field Discharge Air +2°F, Cut-Out Temp = Field Discharge Air -2°F.
5. Average Discharge Air Velocity measured five minutes after defrost.
6. Listed evaporator temperature indicates unlighted shelves. For lighted shelves and/or aftermarket merchandising accessories, reduce the listed evaporator temperature by 2°F.
7. Amps are taken from electrical nameplate values, watts are actual recorded values from laboratory measurements.
8. When using high glide refrigerants please use the refrigerant manufacturers instructions for measuring superheat.
9. Temperature and defrost settings listed above are recommended start up settings. Final operational settings may need to be adjusted based on store conditions.

ARNEG D2 – D2U00178 | SCALE NTS | 3

NOT USED | SCALE NTS | 4



Lighting Characteristics @ 120V

Case Length	Fluorescent T5 Lighting		AGL LED Lighting	
	Amps	Watts	Amps	Watts
8'	N/A	N/A	N/A	N/A

Electrical Characteristics @ 120V

Case Length	Fan Quantity	High-Efficiency Fans (ECM)		Anti-Condensate Heaters	
		Amps	Watts	Amps	Watts
8'	2	0.22	14	0.94	113.25

Total Refrigeration Characteristics (Direct Expansion)

Application	Total BTU/Hr		SST (°F)	SuperHeat (°F)	Discharge Air (°F)	Discharge Air Velocity (FPM)	Fan Speed (RPM)
	Parallel	Conv.					
8' - Medium Temperature	2690	3070	22	6-8	27	300	800
8' - Low Temperature	3310	3440	-20	6-8	-12	300	600

Defrost Settings (Direct Expansion)

Defrost Type	Defrosts (Day)	Fail Safe (Min.)	Termination Temperature (F)	Drip Time (Min)
Off Cycle	4	45	42°F	0
Hot Gas	4	45	42°F	0

1. ArnegUSA refrigerated display cases for sale in the United States meet or exceed Department of Energy 2017 energy efficiency requirements.
2. Recommended Settings for Conventional Discharge Air Control: Cut-In Temp = Field Discharge Air +2°F, Cut-Out Temp = Field Discharge Air -2°F.
3. Average Discharge Air Velocity measure five minutes after defrost.
4. Amps are taken from electrical nameplate values, watts are actual recorded values from laboratory measurements.

ARNEG D/T ENCAP – D2U00167 | SCALE NTS | 5

BORGEN – P7508 | SCALE NTS | 6

Cushing Terrell
cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE SUMMIT, MO

STATE OF MISSOURI
NICHOLAS P. GREMEL
NUMBER PE-2010017318
PROFESSIONAL ENGINEER

12.23.2025

© 2025 | ALL RIGHTS RESERVED

PERMIT

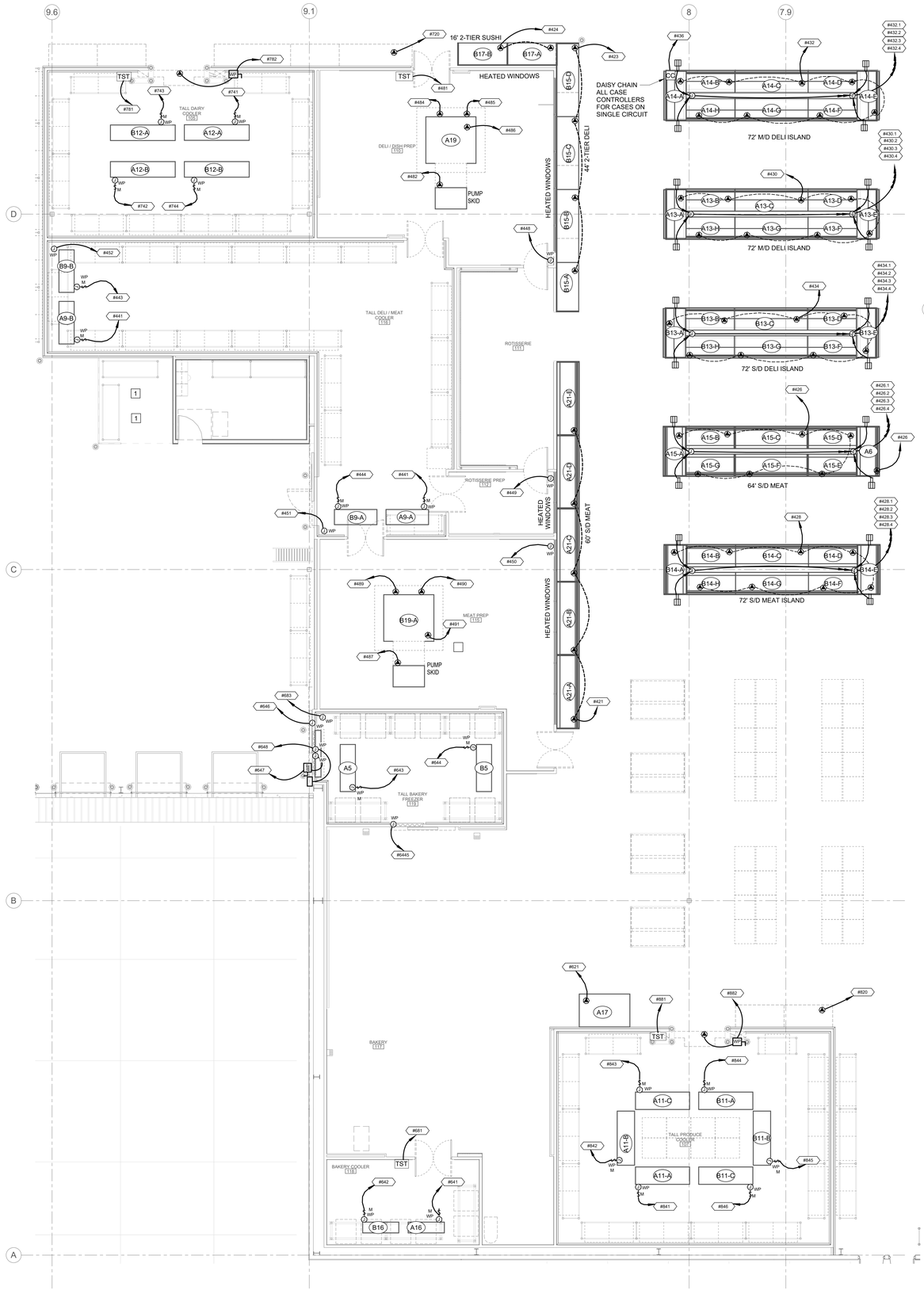
12.22.2025
PROJECT# | COSTCO
DESIGNED BY | K. WHEELER
DRAWN BY | K. WHEELER
REVISIONS

REFRIGERATED CASE DETAILS

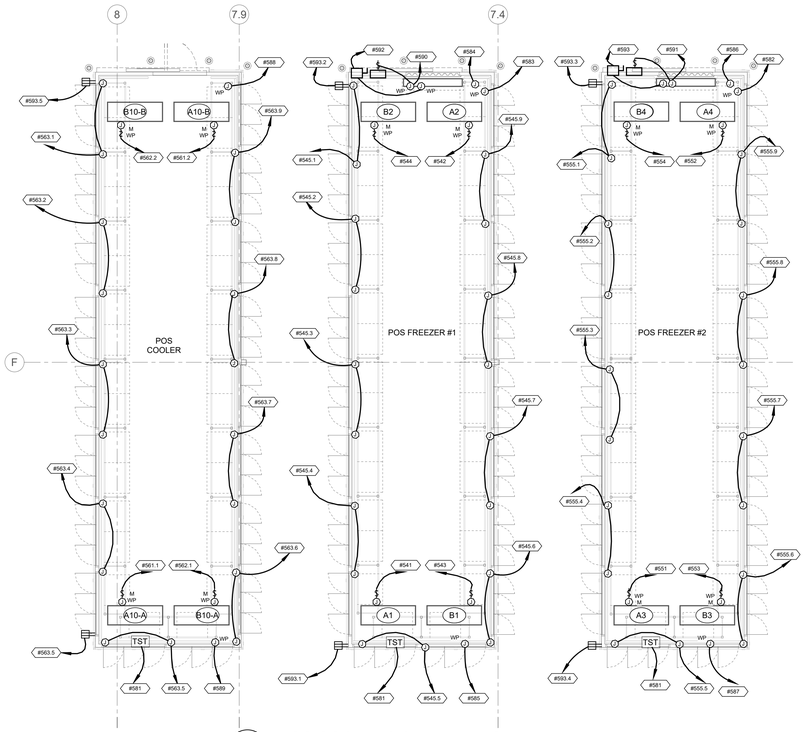
R8.3

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/22/2025 4:04:00 PM

Cushing Terrell.
cushingterrell.com
800.757.9522



1 RE3.0 FRESH LINE FLOOR PLAN
1/8" = 1'-0"



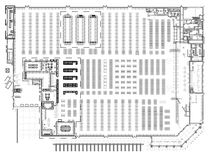
2 RE3.0 POS COOLERS & FREEZERS
1/8" = 1'-0"

GENERAL NOTES

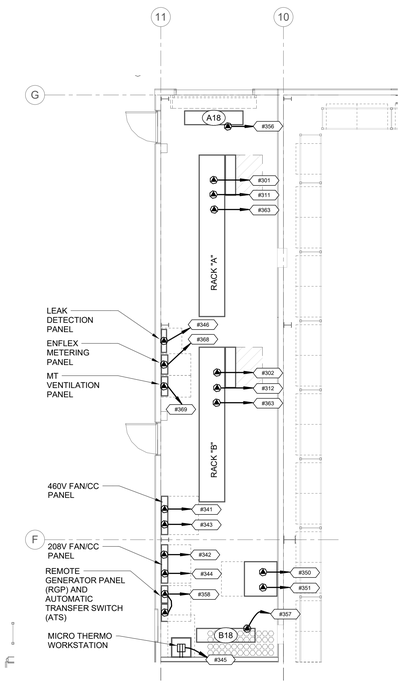
A. ALL JUNCTION BOXES FOR REACH-IN DOOR LIGHTS TO BE LOCATED ON MULLIONS.
B. OVERHEAD ELECTRICAL CONDUIT TO BE RUN INSIDE OF TRUSS WORK AS HIGH AS POSSIBLE, AVOIDING SKYLIGHTS AND STORE LIGHTING.
C. SURFACE MOUNT ALL CONDUIT FOR MEAT/DELI/PRODUCE REFRIGERATED WALK-IN BOXES ON THE EXTERIOR ROOF OF THE WALK-IN BOXES.
D. SEE SHEET RE3.0 FOR ELECTRICAL LEGEND.
E. ALL SLIDER DOORS TO HAVE DOOR CLOSE MONITOR/ALARM BY MT CONTROL SYSTEM.
F. ENSURE ALL ELECTRICAL CORDS AT REACH-IN DOORS ARE KEPT TAUT.
G. ALL HEATED DRIVE IN DOORS TO HAVE PIG TAIL ELECTRICAL CORDS THAT ARE TAUT.
H. ALL MECHANICAL AND ELECTRICAL SYSTEMS MUST MEET ALL LOCAL AND NATIONAL CODES.
I. NO MOTION SENSORS ON ANY LIGHTS.
J. INSTALL SINAGE FOR "DUAL SOURCES OF POWER SERVING THIS BUILDING" AT METER BASE AND EACH ELECTRICAL PANEL, ROOM AND EACH PIECE OF EQUIPMENT SERVED BY GENERATOR.

ELECTRICAL LEGEND

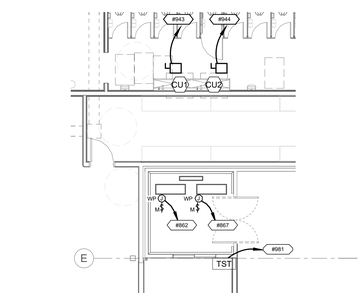
- x# — REFRIGERATION SYSTEM NUMBER - SEE REFRIGERATION SCHEDULE FOR REFERENCE
- #### — INDICATES REFRIGERATION EQUIPMENT NUMBER
- SPECIAL PURPOSE CONNECTION
- J — JUNCTION BOX, WP: WEATHER PROOF
- DISCONNECT SWITCH, WP : WEATHER PROOF
- GFI RECEPTACLE-DUPLEX (GROUND FAULT INTERRUPT)
- RECEPTACLE-DUPLEX
- TST — THERMO-SIMPLE TRANSFORMER FIELD INSTALL ON TOP OF PRODUCE COOLER, POS BOXES, BAKERY COOLER, AND FOOD SERVICE
- CIRCUIT; PROVIDE QUANTITY OF CONDUCTORS AS REQUIRED FOR QUANTITY OF CIRCUITS SHOWN. MINIMUM 2#10 WITH 1#10 GROUND IN 3/4"C.
- $_M — MANUAL MOTOR DISCONNECT/STARTER SWITCH



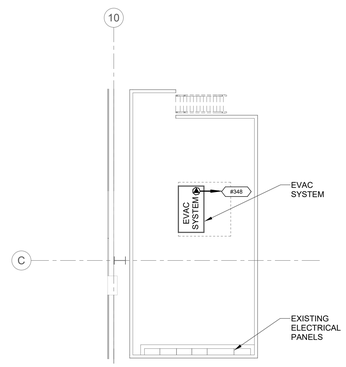
KEY PLAN



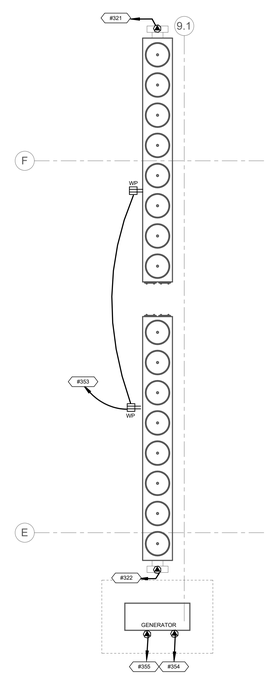
3 RE3.0 MECHANICAL ROOM
1/8" = 1'-0"



4 RE3.0 FOOD SERVICE POWER ELECTRICAL PLAN
1/8" = 1'-0"



5 RE3.0 RECIEVING AREA MEZZANINE
1/8" = 1'-0"



6 RE3.0 REFRIGERATION ROOFTOP EQUIP
1/8" = 1'-0"

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

STATE OF MISSOURI
GARY GLASSING NUMBER PE-2009009947
12/22/2025

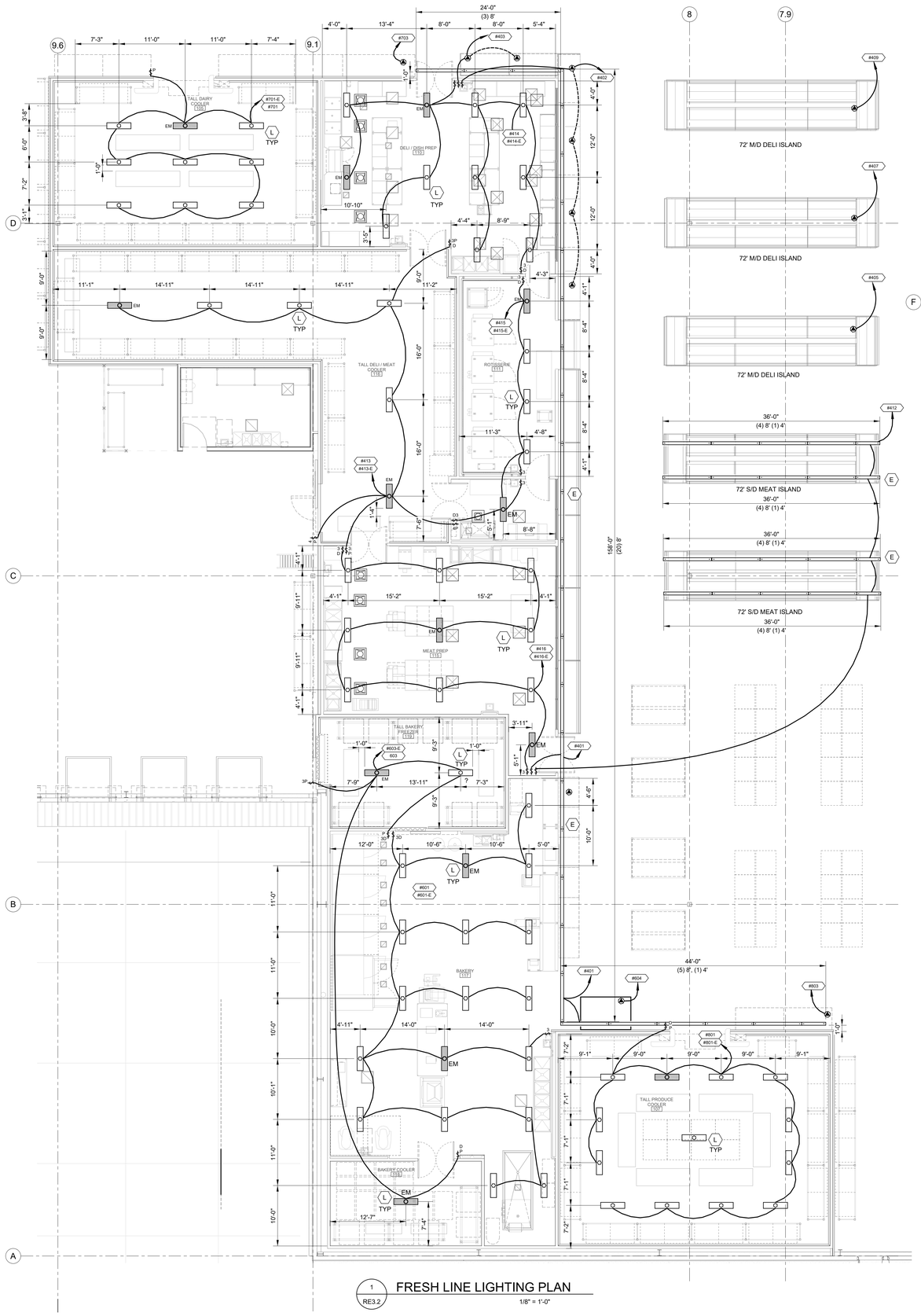
© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

12.22.2025
DESIGNED BY | SCHMIDT
DRAWN BY | SCHUELER
REVISIONS

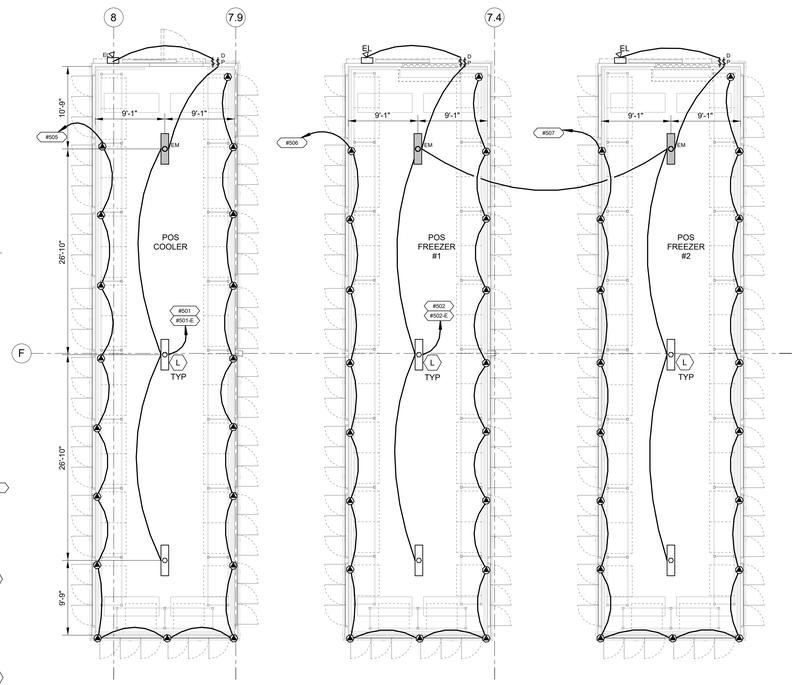
REFRIGERATION POWER PLAN

RE3.0



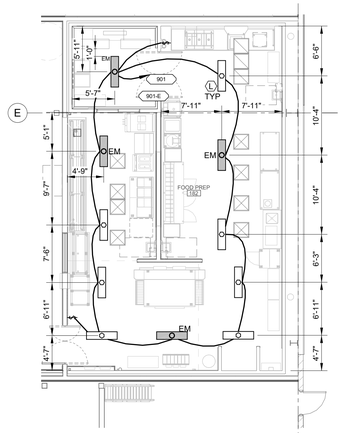
1 RE3.2 FRESH LINE LIGHTING PLAN

1/8" = 1'-0"



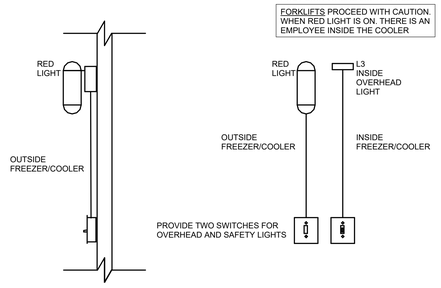
3 RE3.2 POS COOLERS & FREEZERS LIGHTING

1/8" = 1'-0"



2 RE3.2 FOOD SERVICE LIGHTING PLAN

1/8" = 1'-0"

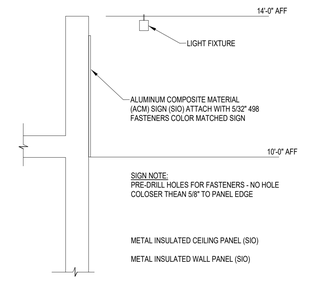


POST SIGN WHERE LIGHT IS USED

FORKLIFTS PROCEED WITH CAUTION. WHEN RED LIGHT IS ON, THERE IS AN EMPLOYEE INSIDE THE COOLER

5 RE3.2 EMPLOYEE SAFETY LIGHT

1/2" = 1'-0"



4 RE3.2 HEAD WALL (SHOWN AT SIGN)

NOT TO SCALE

GENERAL NOTES

1. MINIMIZED EXPOSED CONDUIT IN REFRIGERATION BOX. ROUTE CONDUIT ON ROOF OF BOX WHENEVER POSSIBLE, SEAL PER CODE.
2. ALL WORK ON THIS SHEET IS BY REFRIGERATION ELECTRICAL CONTRACTOR.
3. ALL ELECTRICAL DEVICES AND EQUIPMENT (CONDUIT, J-BOXES, DISCONNECTS, LIGHTS, ETC.) WITHIN ANY REFRIGERATED SPACE SHALL BE RATED FOR WET LOCATIONS.
4. ALL PENETRATIONS IN AND OUT OF REFRIGERATED BOXES SHALL BE SEALED.
5. PROVIDE SWITCHING FOR LIGHTING. PROVIDE NEMA 4 ENCLOSURE, SWITCHES, CONTACTORS, POWER SUPPLY, WIRING, ETC. AS REQUIRED FOR A COMPLETE SYSTEM.
6. NOT USED.
7. ALL LIGHTING CIRCUITS TO BE RUN THROUGH CONTROL BREAKER.
8. PERIMETER FIXTURES MUST BE LOCATED 4' O.C. FROM PERIMETER WALLS. LIGHT FIXTURE LAYOUT AND QUANTITY HAVE BEEN DESIGNED BY VISION ENGINEERING FOR THIS PROJECT. ANY MOUNTING LOCATION OR QUANTITY DEVIATION FROM THE PLAN AS SHOWN SHALL BE SUBMITTED TO VISION ENGINEERING FOR REVIEW AND APPROVAL PRIOR TO ROUGH-IN.
9. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO FAMILIARIZE THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM THE WORK AND ENSURE THE EQUIPMENT OPERATES PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE PERMITTED DUE TO CONDITIONS RESULTING FROM FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE. REFRIGERATION CONTRACTOR TO ADHERE TO ALL EPA GUIDELINES.
10. LIGHTING MANUFACTURER DELI & MEAT PREP NOTE: IF THERE ARE ANY CONFLICTS ON THE CEILING IN THE FIELD THAT ARE NOT SHOWN ON THE DRAWINGS, PLEASE SHIFT THE FIXTURES TO AVOID THOSE CONFLICTS. PERIMETER FIXTURES LOCATED ADJACENT TO THE PLAN NORTH, SOUTH AND EAST WALLS MUST BE INSTALLED NO FURTHER THAN 4' O.C. FROM THE WALL.

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	EMERGENCY/NIGHT LIGHT w/LIGHT ALARMS LMIU 125 MT ID OR APPROVED EQUAL. MOUNTED ABOVE BOX, VISIBLE FROM DOOR. SUPPLIED & INSTALLED BY REFRIGERATION ELECTRICAL CONTRACTOR.
	SYLVANIA LIGHTING
$D	SWITCH - DIMMER
$	SWITCH - SPST.
$3	SWITCH - THREEWAY
$P	SWITCH - PILOT
	FRESHLINE LINEAR LED LIGHT
	CIRCUIT: PROVIDE QUANITY OF CONDUCTORS AS SHOWN IN SCHEDULE. MINIMUM 2#10 WITH 1#10 GROUND IN 3/4" CONDUIT.
P	EMPLOYEE SAFETY LIGHT

REFRIGERATION LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	LAMP	MOUNTING	WATT	REMARKS
L	SYLVANIA	WVAP1A-S180-UNVD8SC7-48W1-GR	LED	SURFACE	120W	SHADED FIXTURES (EM) SHALL BE PROVIDED WITH 90 MINUTE MINIMUM BATTERY BACKUP
E	CORELITE	HGL-S-FR-80L-835-1-D-UNV-STD-W-UM-4 HGL-S-FR-80L-835-1-D-UNV-STD-W-UM-8	LED	AC CABLE SUSPENDED	70W (4') 141W (8')	SUSPEND LIGHTS VIA AC CABLE AT 14'-0" 12" FROM VERTICAL FACE OF FRESHLINE WALL. SUSPEND MEAT ISLAND LIGHTS 14'-0" OVER CASES AS SHOWN. USE VENDOR PROVIDED ACCESSORIES.
EL	FEDERAL SIGNAL	BASE: SLMBD-120-240GY LED: SLM350R	LED	WALL	10W	SEE DETAIL 5/RE3.2, AND OEM SPECS FOR INSTALLATION

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/22/2025 4:04:00

Cushing Terrell
cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

STATE OF MISSOURI
GARY GLASSING
NUMBER PE-2006000951
12/22/2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

12.22.2025
DESIGNED BY | SCHMIDT
DRAWN BY | SCHUELER
REVISIONS

REFRIGERATION
LIGHTING PLAN

RE3.2

LEE SUMMIT, MO
REFRIGERATION ELECTRICAL COORDINATION LIST

Refrigeration | **REV # 0** | **Date: 11.26.2025** | **Refr & Elec** | **Electrical**

ITEM #	Rev #	EQUIPMENT DESCRIPTION	REFRIG. SYS. #	VOLTAGE	PHASE	AMPS	WATTS	FLA	MCA	MOCP	PANEL	WIRE SIZE	LIGHTING CONTROL BREAKER	SPECIAL REQUIREMENTS AND/OR NOTES
300 RACK EQUIPMENT														
RACKS POWER (300-309)														
301		COMPRESSOR RACK A		460	3				458	500	BY OTHERS	(x2) 3#250MCM, #2 GND, 2 1/2"C		
302		COMPRESSOR RACK B		460	3				458	500	BY OTHERS	(x2) 3#250MCM, #2 GND, 2 1/2"C		
RACK CONTROLS (310-319)														
311		CONTROLS RACK A		115	1				16	20	RGP	2#10 #10 GND 3/4"C		
312		CONTROLS RACK B		115	1				16	20	RGP	2#10 #10 GND 3/4"C		
CONDENSER POWER (320-329)														
321		GAS COOLER A		460	3				34.4	45	BY OTHERS	3#6 #10 GND 1"C		
322		GAS COOLER B		460	3				34.4	45	BY OTHERS	3#6 #10 GND 1"C		
CONDENSER CONTROLS (330-339)														
CONTROLS AND MISCELLANEOUS (340-399)														
341		460 VOLT FAN CONTROL PANEL		460	3			52.4	65.5	70	BY OTHERS	3#4 #8 GND 1" C		
342		208 VOLT FAN CONTROL PANEL		208	3			123.3	154.2	175	BY OTHERS	3#2/0 #6 GND 2" C		
343		460 VOLT FAN CONTROL PANEL CONTROL		115	1				16	20	BY OTHERS	2#10 #10 GND 3/4"C		
344		208 VOLT FAN CONTROL PANEL CONTROL		115	1				16	20	BY OTHERS	2#10 #10 GND 3/4"C		
345		MICRO THERMO WORKSTATION		115	1				5	15	RGP	2#10 #10 GND 3/4"C		
346		LEAK DETECTION PANEL		115	1				16	20	BY OTHERS	2#10 #10 GND 3/4"C		
347		ALARM PANEL **LMP/CARNOT**		115	1				16	20	BY OTHERS	2#10 #10 GND 3/4"C		
348		EVAC SYSTEM		208	3				28.75	30	RGP	3#10 #10 GND 3/4"C		
349		ROOF RECEPTACLE		115	1				16	20	BY OTHERS	2#10 #10 GND 3/4"C		
350		CONDENSING UNIT - RACK A		208	3				27.7	40	RGP	3#8 #10 GND 3/4"C		
351		CONDENSING UNIT - RACK B		208	3				27.7	40	RGP	3#8 #10 GND 3/4"C		
354		GENERATOR BLOCK HEATER		115	1	10.0				20	RGP	3#8 #10 GND 3/4"C		
355		GENERATOR BLOCK CHARGER		115	1	12.5				20	RGP	3#8 #10 GND 3/4"C		
356		COMPRESSOR CENTER A/C	A18	208	1				9.1	20	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
357		COMPRESSOR CENTER A/C	B18	208	1				9.1	20	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
358		ATS - AUTOMATIC TRANSFER SWITCH		208	3				156	175	BY OTHERS	4#2/0 #6 GND 2"C		REFER TO TRANSFER SWITCH DETAIL 1 / R3
362		VESSEL HEATER - RACK A		115	1				12	20	BY OTHERS	2#10 #10 GND 3/4"C		
363		VESSEL HEATER - RACK B		115	1				12	20	BY OTHERS	2#10 #10 GND 3/4"C		
368		ENFLEX METERING PANEL		115	1				16	20	BY OTHERS	2#10 #10 GND 3/4"C		
369		MT VENTILATION PANEL		115	1				16	20	BY OTHERS	2#10 #10 GND 3/4"C		
400 FRESHLINE														
LIGHTING (400-419)														
401		SUSPENDED WALL LIGHTING		277	1					20	BY OTHERS	2#10 #10 GND 3/4"C	X	
402		2-TIER DELI LINE-UP LIGHTING		115	1					20	BY OTHERS	2#10 #10 GND 3/4"C	X	
403		2-TIER SUSHI LINE-UP LIGHTING	B17	115	1	1.5				20	BY OTHERS	2#10 #10 GND 3/4"C	X	
406		D5 DELI ISLAND LIGHTING	A13	115	1	3.0				20	BY OTHERS	2#10 #10 GND 3/4"C	X	
408		D5 DELI ISLAND LIGHTING	A14	115	1	3.0				20	BY OTHERS	2#10 #10 GND 3/4"C	X	
410		D5 DELI ISLAND LIGHTING	B14	115	1	3.0				20	BY OTHERS	2#10 #10 GND 3/4"C	X	
412		SUSPENDED MEAT ISLAND LIGHTING		277	1	1.2	333			20	BY OTHERS	2#10 #10 GND 3/4"C	X	
413		MEAT COOLER LIGHTING		277	1	3.0	840			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
413-E		MEAT COOLER LIGHTING - EM BATTERY CHARGING CIRCUIT					11							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
414		DELI/SUSHI PREP LIGHTING		277	1	7.8	2160			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
414-E		DELI/SUSHI PREP LIGHTING - EM BATTERY CHARGING CIRCUIT					11							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
415		ROTISSERIE/ROTISSERIE PREP LIGHTING		277	1	2.6	720			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
415-E		ROTISSERIE/ROTISSERIE PREP LIGHTING - EM BATTERY CHARGING CIRCUIT					11							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
416		MEAT PREP LIGHTING		277	1	5.6	1560			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
416-E		MEAT PREP LIGHTING - EM BATTERY CHARGING CIRCUIT					11							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
CASES (420-439)														
421		M1 MEAT LINE-UP FANS	A21	115	1					20	BY OTHERS	2#10 #10 GND 3/4"C		
422		D/T ENDCAP	A6	115	1	1.4				20	BY OTHERS	2#10 #10 GND 3/4"C		
423		2-TIER DELI LINE-UP FANS	B15	115	1					20	BY OTHERS	2#10 #10 GND 3/4"C		
424		2-TIER SUSHI LINE-UP FANS	B17	115	1	1.4				20	BY OTHERS	2#10 #10 GND 3/4"C		
426		M1 MEAT ISLAND FANS	A15	115	1	2.0				20	BY OTHERS	2#10 #10 GND 3/4"C		
426.1		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
426.2		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
426.3		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
426.4		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
428		M1 MEAT ISLAND FANS	B14	115	1	2.0				20	BY OTHERS	2#10 #10 GND 3/4"C		
428.1		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
428.2		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
428.3		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
428.4		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
430		D5 DELI ISLAND FANS	A13	115	1	16.6				20	BY OTHERS	2#10 #10 GND 3/4"C		
430.1		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
430.2		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
430.3		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
430.4		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
432		D5 DELI ISLAND FANS	A14	115	1	16.6				20	BY OTHERS	2#10 #10 GND 3/4"C		
432.1		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
432.2		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
432.3		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
432.4		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
434		D5 DELI ISLAND FANS	B13	115	1	16.6				20	BY OTHERS	2#10 #10 GND 3/4"C		
434.1		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
434.2		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
434.3		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
434.4		CONVENIENCE OUTLET		115	1		1920			20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 160' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
436		CASE CONTROLLER CIRCUIT		115	1		1080			20	BY OTHERS	2#10 #10 GND 3/4"C		
WALK-INS (440-479)														
441		MEAT COOLER WALK-IN BOX EVAPORATOR	A9	208	1				9.1	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
442		MEAT COOLER WALK-IN BOX EVAPORATOR	A9	208	1				9.1	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
443		MEAT COOLER WALK-IN BOX EVAPORATOR	B9	208	1				9.1	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
444		MEAT COOLER WALK-IN BOX EVAPORATOR	B9	208	1				9.1	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
448		DELI HEATED WINDOWS		115	1				7.15	20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEATED WINDOWS REQUIRE 30mA GFPE PROTECTION
449		ROTISSERIE PREP HEATED WINDOWS		115	1				1.3	20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEATED WINDOWS REQUIRE 30mA GFPE PROTECTION
450		MEAT PREP HEATED WINDOWS		115	1				6.5	20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEATED WINDOWS REQUIRE 30mA GFPE PROTECTION
451		CONDENSATE HEAT TAPE MEAT COOLER		115	1	5.0				20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEAT TAPE REQUIRE 30mA GFPE PROTECTION
453		CONDENSATE HEAT TAPE MEAT COOLER		115	1	5.0				20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEAT TAPE REQUIRE 30mA GFI PROTECTION
CONTROLS AND MISCELLANEOUS (460-499)														
481		THERMO SIMPLE TRANSFORMER		115	1	2.0				20	BY OTHERS	2#10 #10 GND 3/4"C		
482		DELI PREP AHU PUMP SKID POWER	A19	115	1				8	15	BY OTHERS	3#10 #10 GND 3/4"C		
484		DELI PREP AHU FAN	A19	460	3			6.2	12	20	BY OTHERS	3#10 #10 GND 3/4"C		
485		DELI PREP AHU REHEAT	A19	460	3			42.7		50	BY OTHERS	3#6 #10 GND 1" C		
486		DELI PREP AHU UV LIGHT / CONTROL PANEL	A19	115	1		240		2	20	BY OTHERS	2#10 #10 GND 3/4"C		
487		MEAT PREP AHU PUMP SKID POWER	B19	115	1				8	15	BY OTHERS	3#10 #10 GND 3/4"C		
489		MEAT PREP AHU FAN	B19	460	3			6.2	12	20	BY OTHERS	3#10 #10 GND 3/4"C		
490		MEAT PREP AHU REHEAT	B19	460	3			42.7		50	BY OTHERS	3#6 #10 GND 1" C		
491		MEAT PREP AHU UV LIGHT / CONTROL PANEL	B19	115	1		240		2	20	BY OTHERS	2#10 #10 GND 3/4"C		

ITEM #	Rev #	EQUIPMENT DESCRIPTION	REFRIG. SYS. #	VOLTAGE	PHASE	AMPS	WATTS	FLA	MCA	MOCP	PANEL	WIRE SIZE	LIGHTING CONTROL BREAKER	SPECIAL REQUIREMENTS AND/OR NOTES
500 POS BOXES														
LIGHTING (500-519)														
501		POS COOLER LIGHTING		277	1	1.3	360			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
501-E		POS COOLER LIGHTING - EM BATTERY CHARGING CIRCUIT					11							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
502		POS FREEZER #1 & #2 LIGHTING		277	1	2.6	720			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
502-E		POS FREEZER #1 & #2 LIGHTING - EM BATTERY CHARGING CIRCUIT					11							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
505		POS COOLER MULLION LIGHTING		115	1	9.0				20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAX CIRCUIT LENGTH IS 275' TO MAINTAIN LESS THAN 3% VOLTAGE DROP
506		POS FREEZER #1 MULLION LIGHTING		115	1	9.0				20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAX CIRCUIT LENGTH IS 275' TO MAINTAIN LESS THAN 3% VOLTAGE DROP
507		POS FREEZER #2 MULLION LIGHTING		115	1	9.0				20	BY OTHERS	2#8 #8 GND 3/4"C		#8 CONDUCTORS MAX CIRCUIT LENGTH IS 275' TO MAINTAIN LESS THAN 3% VOLTAGE DROP
WALK-INS (540-579)														
541		POS FREEZER #1 WALK-IN BOX EVAPORATOR	A1	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
542		POS FREEZER #1 WALK-IN BOX EVAPORATOR	A2	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
543		POS FREEZER #1 WALK-IN BOX EVAPORATOR	B1	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
544		POS FREEZER #1 WALK-IN BOX EVAPORATOR	B2	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
545.1		DOOR HEAT POS FREEZER #1		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
545.2		DOOR HEAT POS FREEZER #1		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
545.3		DOOR HEAT POS FREEZER #1		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
545.4		DOOR HEAT POS FREEZER #1		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
545.5		DOOR HEAT POS FREEZER #1		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
545.6		DOOR HEAT POS FREEZER #1		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
545.7		DOOR HEAT POS FREEZER #1		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
545.8		DOOR HEAT POS FREEZER #1		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
545.9		DOOR HEAT POS FREEZER #1		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
551		POS FREEZER #2 WALK-IN BOX EVAPORATOR	A3	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
552		POS FREEZER #2 WALK-IN BOX EVAPORATOR	A4	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
553		POS FREEZER #2 WALK-IN BOX EVAPORATOR	B3	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
554		POS FREEZER #2 WALK-IN BOX EVAPORATOR	B4	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
555.1		DOOR HEAT POS FREEZER #2		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
555.2		DOOR HEAT POS FREEZER #2		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
555.3		DOOR HEAT POS FREEZER #2		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
555.4		DOOR HEAT POS FREEZER #2		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
555.5		DOOR HEAT POS FREEZER #2		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
555.6		DOOR HEAT POS FREEZER #2		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
555.7		DOOR HEAT POS FREEZER #2		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
555.8		DOOR HEAT POS FREEZER #2		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
555.9		DOOR HEAT POS FREEZER #2		115	1				3.88	20	BY OTHERS	2#10 #10 GND 3/4"C		
561.1		POS COOLER WALK-IN BOX EVAPORATOR	A10	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
561.2		POS COOLER WALK-IN BOX EVAPORATOR	A10	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
562.1		POS COOLER WALK-IN BOX EVAPORATOR	B10	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
562.2		POS COOLER WALK-IN BOX EVAPORATOR	B10	460	3				4.3	15	460V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
563.1		DOOR HEAT POS COOLER		115	1				1.52	20	BY OTHERS	2#10 #10 GND 3/4"C		
563.2		DOOR HEAT POS COOLER		115	1				1.52	20	BY OTHERS	2#10 #10 GND 3/4"C		
563.3		DOOR HEAT POS COOLER		115	1				1.52	20	BY OTHERS	2#10 #10 GND 3/4"C		
563.4		DOOR HEAT POS COOLER		115	1				1.52	20	BY OTHERS	2#10 #10 GND 3/4"C		
563.5		DOOR HEAT POS COOLER		115	1				1.52	20	BY OTHERS	2#10 #10 GND 3/4"C		
563.6		DOOR HEAT POS COOLER		115	1				1.52	20	BY OTHERS	2#10 #10 GND 3/4"C		
563.7		DOOR HEAT POS COOLER		115	1				1.52	20	BY OTHERS	2#10 #10 GND 3/4"C		
563.8		DOOR HEAT POS COOLER		115	1				1.52	20	BY OTHERS	2#10 #10 GND 3/4"C		
563.9		DOOR HEAT POS COOLER		115	1				1.52	20	BY OTHERS	2#10 #10 GND 3/4"C		
CONTROLS AND MISCELLANEOUS (580-599)														
581		THERMO SIMPLE TRANSFORMER (3 TOGETHER)		115	1	2.0				20	BY OTHERS	2#10 #10 GND 3/4"C		
582		FREEZER DOOR HEATER / HEATED PRESSURE RELIEF PORT		115	1	10.5				20	BY OTHERS	2#8 #10 GND 3/4"C		
583		FREEZER DOOR HEATER / HEATED PRESSURE RELIEF PORT		115	1	10.5				20	BY OTHERS	2#8 #10 GND 3/4"C		
584		CONDENSATE HEAT TAPE POS #1		115	1	5.0				20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEAT TAPE REQUIRE 30mA GFPE PROTECTION
585		CONDENSATE HEAT TAPE POS #1		115	1	5.0				20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEAT TAPE REQUIRE 30mA GFPE PROTECTION
586		CONDENSATE HEAT TAPE POS #2		115	1	5.0				20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEAT TAPE REQUIRE 30mA GFPE PROTECTION
587		CONDENSATE HEAT TAPE POS #2		115	1	5.0				20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEAT TAPE REQUIRE 30mA GFPE PROTECTION
588		CONDENSATE HEAT TAPE POS COOLER		115	1	5.0				20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEAT TAPE REQUIRE 30mA GFPE PROTECTION
589		CONDENSATE HEAT TAPE POS COOLER		115	1	5.0				20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEAT TAPE REQUIRE 30mA GFPE PROTECTION
590		AIR-CURTAIN FAN/ CONTROL POS #1		115	1			5		20	BY OTHERS	2#10 #10 GND 3/4"C		
591		AIR-CURTAIN FAN/ CONTROL POS #2		115	1			5		20	BY OTHERS	2#10 #10 GND 3/4"C		
592		AIR CURTAIN POS FREEZER #1		460	3			12		20	BY OTHERS	3#10 #10 GND 3/4"C		
593		AIR CURTAIN POS FREEZER #2		460	3			12		20	BY OTHERS	3#10 #10 GND 3/4"C		
593.1		CONVENIENCE OUTLET POS FREEZER #1		115	1		1920			20	BY OTHERS	2#6 #6 GND 1"C		#6 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 250' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
593.2		CONVENIENCE OUTLET POS FREEZER #1		115	1		1920			20	BY OTHERS	2#6 #6 GND 1"C		#6 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 250' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
593.3		CONVENIENCE OUTLET POS FREEZER #2		115	1		1920			20	BY OTHERS	2#6 #6 GND 1"C		#6 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 250' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
593.4		CONVENIENCE OUTLET POS FREEZER #2		115	1		1920			20	BY OTHERS	2#6 #6 GND 1"C		#6 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 250' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
593.5		CONVENIENCE OUTLET POS COOLER		115	1		1920			20	BY OTHERS	2#6 #6 GND 1"C		#6 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 250' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
593.6		CONVENIENCE OUTLET POS COOLER		115	1		1920			20	BY OTHERS	2#6 #6 GND 1"C		#6 CONDUCTORS MAXIMUM CIRCUIT DISTANCE IS 250' TO MAINTAIN LESS THAN 3% VOLTAGE DROP.
600 BAKERY														
LIGHTING (600-619)														
601		BAKERY LIGHTING		277	1	10.4	2880			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
601-E		BAKERY LIGHTING - EM BATTERY CHARGING CIRCUIT					22							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
603		BAKERY COOLER/FREEZER LIGHTING		277	1	2.2	600			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
603-E		BAKERY COOLER/FREEZER - EM BATTERY CHARGING CIRCUIT					22							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
604		BAKERY CAKE CASE LIGHTING	A17	115	1			2.4		20	BY OTHERS	2#10 #10 GND 3/4"C	X	
CASES (620-639)														
621		BAKERY CAKE CASE FANS	A17	115	1			2.4		20	BY OTHERS	2#10 #10 GND 3/4"C		
WALK-INS (640-679)														
641		BAKERY COOLER WALK-IN BOX EVAPORATOR	A16	208	1				2.76	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
642		BAKERY COOLER WALK-IN BOX EVAPORATOR	B16	208	1				2.76	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
643		BAKERY FREEZER WALK-IN BOX EVAPORATOR	A5	208	1				11.93	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
644		BAKERY FREEZER WALK-IN BOX EVAPORATOR	B5	208	1				11.93	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
645		FREEZER DOOR HEATER / HEATED PRESSURE RELIEF PORT		115	1	10.5			10.5	20	BY OTHERS	2#10 #10 GND 3/4"C		
646		FREEZER DOOR HEATER / HEATED PRESSURE RELIEF PORT		115	1	10.5			10.5	20	BY OTHERS	2#10 #10 GND 3/4"C		
647		AIR CURTAIN FREEZER		460	3			12		20	BY OTHERS	3#10 #10 GND 3/4"C		
648		AIR-CURTAIN FAN/ CONTROL FREEZER		115	1			5		20	BY OTHERS	2#10 #10 GND 3/4"C		
CONTROLS AND MISCELLANEOUS (680-699)														
681		THERMO SIMPLE TRANSFORMER		115	1	2.0				20	BY OTHERS	2#10 #10 GND 3/4"C		
683		CONDENSATE HEAT TAPE		115	1	5.0				20	BY OTHERS	2#10 #10 GND 3/4"C		ALL HEAT TAPE REQUIRE 30mA GFPE PROTECTION
700 DAIRY														
LIGHTING (700-719)														
701		DAIRY COOLER LIGHTING		277	1	5.2	1440			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
701-E		DAIRY COOLER LIGHTING - EM BATTERY CHARGING CIRCUIT					11							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
702		DAIRY COOLER LIGHTING		277	1	5.2	1440			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
702-E		DAIRY COOLER LIGHTING - EM BATTERY CHARGING CIRCUIT					11							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
703		D5 DAIRY LINE-UP LIGHTING (FUTURE)		115	1				12	20	BY OTHERS	2#10 #10 GND 3/4"C	X	
CASE FANS (720-739)														
720		D5 DAIRY LINE-UP FANS (FUTURE)		115	1				4.1	20	BY OTHERS	2#10 #10 GND 3/4"C		
WALK-INS (740-779)														
741		DAIRY COOLER WALK-IN BOX EVAPORATOR	A12	208	1				11.92	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
742		DAIRY COOLER WALK-IN BOX EVAPORATOR	A12	208	1				11.92	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
743		DAIRY COOLER WALK-IN BOX EVAPORATOR	B12	208	1				11.92	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
744		DAIRY COOLER WALK-IN BOX EVAPORATOR	B12	208	1				11.92	15	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
CONTROLS AND MISCELLANEOUS (780-799)														
781		THERMO SIMPLE TRANSFORMER		115	1	2.0				20	BY OTHERS	2#10 #10 GND 3/4"C		
782		SHOP-IN DAIRY COOLER AIR DOOR		208	3			8.6		15	BY OTHERS	3#10 #10 GND 3/4" C		
800 PRODUCE														
LIGHTING (800-819)														
801		PRODUCE COOLER LIGHTING		277	1	6.1	1680			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
801-E		PRODUCE COOLER LIGHTING - EM BATTERY CHARGING CIRCUIT					11							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
804		D5 PRODUCE LINE-UP LIGHTING		115	1				12	20	BY OTHERS	2#10 #10 GND 3/4"C		
CASE FANS (820-839)														
821		D5 PRODUCE LINE-UP FANS		115	1				4.1	20	BY OTHERS	2#10 #10 GND 3/4"C		
WALK-INS (840-879)														
841		PRODUCE COOLER WALK-IN BOX EVAPORATOR	A11	208	1				3.41	20	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
842		PRODUCE COOLER WALK-IN BOX EVAPORATOR	A11	208	1				3.41	20	208V FAN CONTROL PANEL	2#10 #10 GND 3/4"C		
843		PRODUCE COOLER WALK-IN BOX EVAPORATOR	A11	208	1				3.41	20	208V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
844		PRODUCE COOLER WALK-IN BOX EVAPORATOR	B11	208	1				3.41	20	208V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
845		PRODUCE COOLER WALK-IN BOX EVAPORATOR	B11	208	1				3.41	20	208V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
846		PRODUCE COOLER WALK-IN BOX EVAPORATOR	B11	208	1				3.41	20	208V FAN CONTROL PANEL	3#10 #10 GND 3/4"C		
CONTROLS & MISCELLANEOUS (880-899)														
881		THERMO SIMPLE TRANSFORMER		115	1	2.0				20	BY OTHERS	2#10 #10 GND 3/4"C		
882		SHOP-IN PRODUCE AIR DOOR		208	3			8.6		15	BY OTHERS	3#10 #10 GND 3/4" C		
900 FOOD SERVICE														
LIGHTING (900-919)														
901		FOOD SERVICE LIGHTING		277	1	6.9	1920			20	BY OTHERS	3#10 #10 GND 3/4"C	X	
901-E		FOOD SERVICE LIGHTING - EM BATTERY CHARGING CIRCUIT					11							CONNECT TO 24 HOUR NON-CONTROLLED POLE OF LIGHTING CIRCUIT FOR EM BATTERY CHARGING.
CASES (920-939)														
WALK-INS (940-979)														
941		EVAPORATOR FANS UNIT #1	C1	115	1	1.5				20	BY OTHERS	2#10 #10 GND 3/4"C		
942		EVAPORATOR FANS UNIT #2	D1	115	1	1.5				20	BY OTHERS	2#10 #10 GND 3/4"C		
943		CONDENSING UNIT #1	CU1	208	1	24.6				40	BY OTHERS	2#8 #10 GND 3/4"C		
944		CONDENSING UNIT #2	CU2	208	1	24.6				40	BY OTHERS	2#8 #10 GND 3/4"C		
CONTROLS & MISCELLANEOUS (980-999)														
981		THERMO SIMPLE TRANSFORMER		115	1	2.0				20	BY OTHERS	2#10 #10 GND 3/4"C		

GENERAL NOTES:
A. NUMBERING INTENTONALLY BEGINS AT 300'S TO AVOID CONFUSIONS WITH ROOM NUMBERS.

GENERAL NOTES

A. BUILDING ELECTRICAL ENGINEER IS RESPONSIBLE FOR COMPILING FINAL LOAD TABULATION FOR EACH PANEL TO CONFIRM NO OVERLOAD CONDITION EXIST.
B. CONTROL BREAKERS ARE REQUIRED FOR ALL LIGHTING CIRCUITS.
C. SEE LIGHTING CONTROL SCHEDULE ON BUILDING ELECTRICAL DRAWINGS.
D. ALL DOOR HEATERS AND HEAT TAPE REQUIRE 30mA GFI BREAKERS.
E. PANEL(S) INSTALLED BY OTHERS UNDER SEPARATE CONTRACT UNDER SEPARATE SCOPE AND CONTRACT. ALL PANEL INFORMATION INCLUDING MAIN, SPARES, BUSSED SPACES AND SPACES HAVE BEEN COORDINATED. ALL CIRCUITS ARE THE RESPONSIBILITY OF THE PROJECT E.C. ANY DIVERSIONS OR DISCREPANCIES FROM THESE SCHEDULES OR EQUIPMENT LOAD INFORMATION SHALL BE COORDINATED WITH BOTH EOR'S IMMEDIATELY.
F. INSTALL SINAGE FOR "DUAL SOURCES OF POWER SERVING THIS BUILDING" AT METER BASE AND EACH ELECTRICAL PANEL, ROOM AND EACH PIECE OF EQUIPMENT SERVED BY GENERATOR.

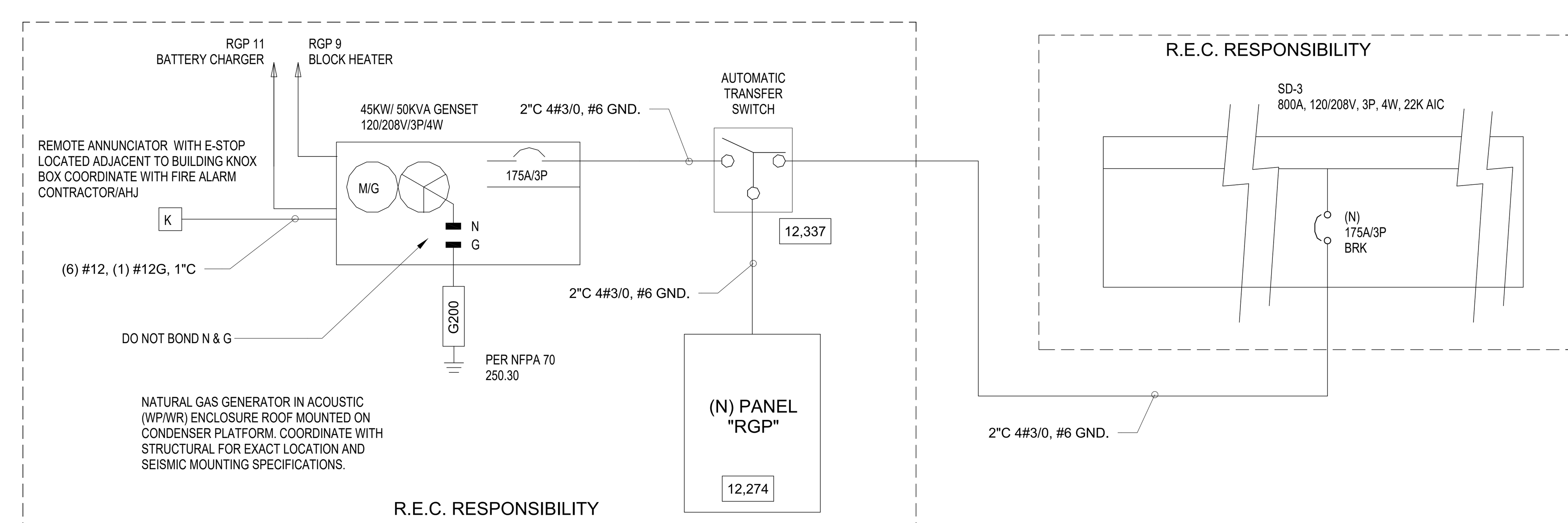
PANEL: RGP

LOCATION: RECEIVING AREA MEZZANINE | AMPS: 225 A | MINIUM AIC RATING: SEE POWER RISER OR ONE-LINE
TYPE OF MAIN: 175 MCB | VOLTAGE: 208Y/120 | MOUNTING TYPE: SURFACE
MANUFACTURER: SQ-D | PHASES: 3 | NOTES: E.C. SHALL VERIFY ALL BREAKER SIZES
MODEL TYPE: NQOB | WIRES: 4

LOAD NAME	CKT NO	BKR AMP	POLE	A		B		C		POLE	BKR AMP	CKT NO	LOAD NAME
CONTROLS RACK A - 311	1	20	1	1920	0					1	20	2	SPARE
CONTROLS RACK B - 312	3	20	1			1920	0			1	20	4	SPARE
460V FAN CONTROL PANEL CONTROL - 343	5	20	1					1920	0	1	20	6	SPARE
MT WORKSTATION - 349	7	15	1	600	1920					1	20	8	208V FAN CONTROL PANEL CONTROL - 344
GENERATOR BLOCK HEATER - 354	9	20	1			1500	1920			1	20	10	VESSEL HEATER RACK A - 362
GENERATOR BATTERY CHARGER - 355	11	20	1					1200	1920	1	20	12	VESSEL HEATER RACK B - 363
RACK A CONDENSING UNIT - 350	13	40	3	3323	3448					3	40	14	EVAC SYSTEM - 352
--	15	--	--			3323	3448			--	--	16	--
--	17	--	--					3323	3448	--	--	18	--
RACK B CONDENSING UNIT - 351	19	40	3	3323	0					1	20	20	SPARE
--	21	--	--			3323	0			1	20	22	SPARE
--	23	--	--					3323	0	1	20	24	SPARE
				14533.5		15433.5		15133.5		TOTAL CONNECTED PHASE VA			
				121.1		129.4		126.9		TOTAL CONNECTED PHASE AMPS			

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	0	0.00%	0	TOTAL CONNECTED LOAD:	45100.5
Convenience Outlets	0	0.00%	0	TOTAL CONNECTED AMPS:	125.2
Motors	30281	100.00%	30281		
Kitchen Equipment	0	0.00%	0	TOTAL EST. DEMAND:	45100.5
Electric Heat	5340	100.00%	5340	TOTAL EST. DEMAND AMPS:	125.2
Water Heat	0	0.00%	0		
Miscellaneous	9480	100.00%	9480		

NOTES
:



1 / RE3.3 TRANSFER SWITCH DETAIL
1/8" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/26/2026 4:04:00

Cushing Terrell
cushingterrell.com
800.757.9522

REFRIGERATION
COSTCO WHOLESALE
LEE'S SUMMIT, MO

STATE OF MISSOURI
GARY GLASSING
NUMBER PE-2006000391
PROFESSIONAL ENGINEER
12/22/2025

© 2025 | ALL RIGHTS RESERVED
CUSHING TERRELL

PERMIT

12.22.2025
DESIGNED BY | SCHMIDT
DRAWN BY | SCHUELER
REVISIONS

ELECTRICAL COORDINATION SHEET

RE3.3