RESPONSIBILITY SCHEDULE - COLD SHELL

	EXISTING TO REMAIN	EXISTING TO BE RELOCATED	LANDLORD INSTALL	GO FURNISH	GO G.C. INSTALL	GROCERY OUTLET FURNISH	GROCERY OUTLET INSTALL	
GENERAL CONDITIONS								
PROGRESSIVE AND FINAL CLEAN UP				●	●			
SITEWORK AND DEMO								
DEMOLITION								NOT APPLICABLE
FIRE EXITING				●	●			PER PLANS
LANDSCAPING	●	●						PER PLANS
PARKING PAVING & IMPROVEMENTS	●	●						REFER TO SITE PLAN
PARKING STRIPING & SIGNAGE	●	●						REFER TO SITE PLAN
RECESSED TRUCK DOCK	●	●						REFER TO DEMO SHEETS
TRASH ENCLOSURE	●	●						
BALE ENCLOSURE	●	●						
CONCRETE								
FLOORING GRINDING					●	●		
CONCRETE SLAB	●	●						COORD. UG PLUMBING W/ GO CPM
METALS								
BOLLARDS				●	●			
CORNER GUARDS				●	●			
STEEL / METALS - MISCELLANEOUS				●	●			
WOODS AND PLASTICS								
WOOD FRAMED EQUIPMENT SUPPORTS	●	●						PER ROOF PLANS
THERMAL AND MOISTURE PROTECTION								
THERMAL INSULATION - EXTERIOR WALLS	●	●						
THERMAL INSULATION - ROOF	●	●						
DOORS AND WINDOWS								
DOOR HARDWARE - EXTERIOR DOORS	●	●						REFER TO DOOR SCHEDULE
DOOR HARDWARE - INTERIOR DOORS				●	●			REFER TO DOOR SCHEDULE
FINISHES								
REFRIGERATION COLUMNS				●	●			
SPECIALITIES								
CART CORRALS	●	●						
FIRE EXTINGUISHERS				●	●			
INTERIOR SIGNAGE						●	●	
PRODUCE MISTING SYSTEMS						●	●	G.C. FIELD COORD. W/ GOI
RACKING- LOZIER SHELVING						●	●	G.C. FIELD COORD. W/ GOI
SIGN STRIPS						●	●	
STORAGE SHELVES (MISC., MELAMINE)						●	●	
TOILET ACCESSORIES				●	●			
WINE RACKS AND/OR TABLES						●	●	
BLOCKING FOR EQUIPMENT				●	●			

	EXISTING TO REMAIN	EXISTING TO BE RELOCATED	LANDLORD INSTALL	GO FURNISH	GO G.C. INSTALL	GROCERY OUTLET FURNISH	GROCERY OUTLET INSTALL	
EQUIPMENT								
BALER						●	●	POWER BY G.C.
CHECKSTANDS						●	●	POWER BY G.C.
P.O.S. POWER POLES						●	●	SUPPORTS BY G.C.
EXTERIOR SIGNAGE - ON BUILDING						●	●	UNDER SEPARATE PERMIT
EXTERIOR SIGNAGE - ON MONUMENT						●	●	UNDER SEPARATE PERMIT
P.O.S. SYSTEM						●	●	
REFRIGERATION EQUIPMENT (CASES, ETC)						●	●	G.C. FIELD COORD. W/ GOI
REFRIG. EQUIPMENT FLOOR BUMPERS						●	●	G.C. FIELD COORD. W/ GOI
REFRIG. - WALK-IN COOLERS & FREEZER						●	●	G.C. FIELD COORD. W/ GOI
MECHANICAL								
COMPRESSORS AND CONDENSERS								REF. TO MECH SCHEDULE
HVAC- RTU'S								REF. TO MECH SCHEDULE
HVAC- SPLIT SYSTEMS								REF. TO MECH SCHEDULE
HVAC- EXTERIOR DUCTWORK					●	●		VENTS, ETC.
HVAC- INTERIOR DISTRIBUTION					●	●		
PLUMBING					●	●		PER GOI SPECIFICATIONS
FIRE SPRINKLER SYSTEM	●	●						DESIGN / BUILD
FP SYSTEM MODIFICATIONS					●	●		DESIGN / BUILD
ELECTRICAL								
SERVICE ENTRANCE EQUIPMENT	●	●						
COMMUNICATIONS (PHONE SYSTEM)							●	● GOI APP. VENDOR
ELECTRICAL SERVICE	●	●						
ELECTRICAL DISTRIBUTION					●	●		
POWER WALL						●	●	
ENERGY MANAGEMENT SYSTEMS							●	●
FIRE ALARM SYSTEM - BASE BUILDING	●	●						
FIRE ALARM SYSTEM - TENANT SPACE							●	●
BURGLAR ALARM SYSTEM							●	●
LIGHTING - SITE					●		●	
LIGHTING - INTERIOR						●	●	GOI APP. VENDOR
LIGHTING CONTROLS						●	●	GOI APP. VENDOR
SECURITY SYSTEM- CCTV							●	●
CONDUITS FOR CCTV, F.A. & B.A.						●	●	
CONDUITS FOR PHONE						●	●	
CONDUITS FOR LOW VOLTAGE						●	●	
POWER FOR SIGNAGE						●	●	
POWER FOR REFRIGERATION EQUIPMENT						●	●	
POWER FOR WINDOW BLINDS						●	●	
POWER FOR ROLL-UP DOORS						●	●	
MISCELLANEOUS								
ADA COMPLIANCE (BUILDING / SITE)					●		●	
ARTWORK / MANNERS							●	●
TRUCK DOCK ACCESSORIES / EQUIPMENT	●	●						
LOCKERS IN BREAK RM.						●	●	

DEFERRED SUBMITTALS

THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO THE BUILDING AND FIRE DEPARTMENTS FOR REVIEW AND APPROVAL. FRAMING INSPECTION WILL NOT BE PERFORMED UNTIL PERMITS FOR FIRE SPRINKLER AND FIRE ALARM HAVE BEEN APPROVED AND ISSUED. INSTALLATION TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

THE FOLLOWING SCOPE OF WORK WILL BE FILED UNDER SEPARATE PERMITS:

1. EXTERIOR SIGNAGE
2. FIRE SPRINKLER
3. FIRE ALARM

STORAGE OF CONST. MATERIALS

CONSTRUCTION RELATED MATERIALS, EQUIPMENT, ETC. MUST BE STORED ON SITE UNLESS PERMITTED IN ADVANCE BY THE A.H.J.

DESIGN-BUILD FIRE ALARM SYSTEM

T.I. CONTRACTOR SHALL FURNISH A DESIGN FOR, AND CONSTRUCT, ALL MODIFICATIONS AS NEEDED TO THE REMOTELY MONITORED FIRE ALARM SYSTEM AS REQUIRED BY THE LOCAL POLICE AND FIRE DEPARTMENT. T.I. CONTRACTOR SHALL PREPARE SHOP DRWINGS AND OBTAIN APPROVALS FROM THE LOCAL FIRE MARSHAL, GROCERY OUTLET, INSURANCE UNDERWRITERS, AND ANY OTHER AGENCIES PRIOR TO ANY INSTALLATION. T.I. CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE, OPERATIONAL SYSTEM AT OCCUPANCY OF PROJECT.

DESIGN-BUILD SPRINKLER SYSTEM

T.I. CONTRACTOR SHALL FURNISH A DESIGN FOR, AND CONSTRUCT, ALL MODIFICATIONS AS NEEDED FOR THE HYDRAULICALLY CALCULATED AUTOMATIC FIRE SPRINKLER SYSTEM. T.I. CONTRACTOR SHALL RETAIN A STATE LICENSED FIRE SPRINKLER CONTRACTOR TO PREPARE SHOP DRAWINGS AND OBTAIN APPROVALS FROM THE TENANT, INSURANCE UNDERWRITERS, LOCAL FIRE MARSHAL, AND OTHER AGENCIES PRIOR TO ANY INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE OPERATIONAL SYSTEM. SUPPLY AN APPROVED SET OF PLANS TO TENANT FOR APPROVAL PRIOR TO COMMENCING WORK. CONTRACTOR TO COORDINATE ALL WORK WITH THE LANDLORD'S FIRE SPRINKLER SCOPE OF WORK. CONTRACTOR TO VERIFY IF REQUIRED TO USE LANDLORD'S FIRE SPRINKLER CONTRACTOR. FIRE SPRINKLER CONTRACTOR TO SUBMIT COMPLETE FIRE SPRINKLER PLANS TO THE A.H.J.

SPECIAL INSPECTIONS

STRUCTURAL SPECIAL INSPECTION IS REQUIRED AS NOTED ON THE SPECIAL INSPECTION AND TESTING AGREEMENT. CONTRACTOR SHALL SCHEDULE & COORDINATE ACCORDINGLY WITH GOI-PROVIDED CONSULTANT.

HEALTH DEPARTMENT NOTES

THE FOLLOWING IS A GENERAL DESCRIPTION OF THE CORPORATE PRESCRIBED OPERATIONS OF THE PROPOSED STORE:

ANY/ ALL FOOD GOODS EITHER DELIVERED BY THE TENANT'S TRANSPORT (VENDORS). GOODS STORED WITHIN THE BACK OF HOUSE, GOODS STORED IN COOLER/ FREEZER BOXES, OR GOODS STOCKED IN SALES AREAS ARE **PRE-PACKAGED** AND REQUIRE NO DIRECT HANDLING FOR CONSUMER PREPARATIONS BY THE STORE STAFF. PRODUCE IS EITHER DISPLAYED IN ORIGINAL PACKAGING OR PLACED IN EUROTABLE BINS WITHIN THEIR OWN RINOS/ SKINS/ ETC. WITH NO DIRECT EXPOSURE OF EDIBLE CONTENTS TO ENVIRONMENT. DELI, MEAT, AND DAIRY GOODS ARE SHIPPED, STOCKED, AND DISPLAYED/ SOLD IN ORIGINAL PACKAGING WITHIN TEMPERATURES AS PRESCRIBED BY SUPPLIERS/ GENERAL HEALTH STANDARDS.

APPLICABLE CODES

2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
2021 OREGON ENERGY EFFICIENCY CODE (OEESC)
2023 OREGON ELECTRICAL SPECIALTY CODE (OESC)
2022 OREGON MECHANICAL SPECIALTY CODE (OMSC)
2023 OREGON PLUMBING SPECIALTY CODE (OPSC)
2022 OREGON FIRE CODE
2017 ICC A117.1
2009 ANSI 117.1
2019 ASHRAE 90.1

ENVIROMENTAL HEALTH APPROVAL IS BY A SEPARATE SUBMITTAL PROCESS THAT SHALL BE COMPLETED PRIOR TO ISSUANCE OF BUILDING PERMIT.

PROJECT DATA

BUILDING CONSTRUCTION AND CLASSIFICATION:

MAPLOT:	372W01C802
ZONING:	C-5 (THOROUGHFARE COMMERCIAL)
OCCUPANCY GROUP:	M (RETAIL)
SPRINKLERED:	YES
TYPE OF CONSTRUCTION:	V-B
BUILDING HEIGHT:	1 STORY, +/- 32'-0"
TOTAL GROSS AREA:	16,162 SF

(REFER TO SHEET G1-01 FOR FURTHER AREA BREAKDOWN AND OCCUPANCY AND EXIT CALCULATIONS)

PROJECT DESCRIPTION

THE PROJECT SITE IS LOCATED AT 4951 BIDDLE RD, CENTRAL POINT, OR.

THIS PROJECT IS A TENANT IMPROVEMENT IN AN NEW BUILDING BEING CONSTRUCTED BY THE LANDLORD (UNDER SEPARATE PERMIT).

TENANT IMPROVEMENTS INCLUDE ALL INTERIOR MODIFICATIONS AS FURTHER DEFINED IN THESE DRAWINGS (ALSO SEE RESPONSIBILITY SCHEDULE):

- EQUIPMENT PLATFORM WITH ACCESS LADDER
- INTERIOR PARTITION WALLS, FINISHES, PAINTING, AND TRIMS
- INTERIOR DOORS, FRAMES, AND HARDWARE WITH NECESSARY SIGNAGE
- OFFICES AND BREAK ROOM CASEWORK
- ACCESSIBLE PUBLIC / STAFF RESTROOM FACILITIES WITH ALL REQUIRED RESTROOM ACCESSORIES / PLUMBING FIXTURES & DRINKING FOUNTAIN
- COMPLETE MECHANICAL HVAC SYSTEM AS FULLY DETAILED ON THE M-SHEETS
- COMPLETE SANITARY WASTE & VENT, DOMESTIC WATER SUPPLY AND GAS PLUMBING SYSTEMS AS FULLY DETAILED ON THE P-SHEETS
- COMPLETE INTERIOR LIGHTING, EMERGENCY LIGHTING AND NECESSARY DIMMING / OCCUPANCY CONTROLS AS FULLY DETAILED ON THE E-SHEETS
- CONDUITS, SUB-PANELS AND ELECTRICAL AMENITIES FOR COMPLETE POWER & DATA TO ALL FIXTURES AND EQUIPMENT AS FULLY DETAILED ON THE E-SHEETS
- COMPLETE REFRIGERATION SYSTEM INCLUDING REACH-IN FROZEN FOOD CASES, REFRIGERATED CASES, COOLER & FREEZER WALK-IN BOXES, CONDENSER RACK & ROOFTOP CONDENSING UNIT AS FULLY DETAILED ON THE R-SHEETS
- RETAIL SHELVING AND DISPLAY FIXTURES AS SHOWN ON THE A8-01 FIXTURE PLAN.

SYMBOLS LEGEND

ROOM TAG
Room name — ROOM NAME
101 — ROOM NUMBER

1t — WINDOW TYPE

101 — DOOR TAG

0 — GRID HEAD

RROO — EQUIPMENT TAG

1t — PARTITION TAG

1 — KEYNOTE

SECTION HEAD
1 / A101 — SIM — DETAIL NUMBER / SHEET NUMBER

CALLOUT HEAD
1 / A101 — SIM — DETAIL NUMBER / SHEET NUMBER

ELEVATION TAG
1 Ref / Ref A101 Ref / 1 Ref — DETAIL NUMBER / SHEET NUMBER

LEVEL/ ELEVATION HEAD
Name — REFERENCE
Elevation — HEIGHT/ ELEVATION

1 — REVISION TAG

℄ — CENTERLINE

ABBREVIATIONS LIST

&	AND
A.B.	ANCHOR BOLT
A.C.	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACOUST.	ACCOUSTICAL
ADJ.	ADJUSTABLE
AGGR.	AGGREGATE
A.H.J.	AUTHORITY HAVING JURISDICTION
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECT(URAL)
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
B.M.	BENCH MARK
B.O.H.	BACK OF HOUSE
BTTM.	BOTTOM
B.U.R.	BUILT UP ROOFING
C.C.	CASEWORK CONTRACTOR
CEM.	CEMENT
C.J.	CONSTRUCTION JOINT
CLG.	CEILING
CLR.	CLEAR
CNTR.	COUNTER
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CTSK.	COUNTERSUNK
DBL.	DOUBLE
D.F.	DRINKING FOUNTAIN
DEPT.	DEPARTMENT
DTL.	DETAIL
D.I.	DROP INLET
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DN.	DOWN
DR.	DOOR
D.S.	DOWN SPOUT
DWG.	DRAWING(S)
(E)	EXISTING
EA.	EACH
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
EXP.	EXPANSION
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.F.	FINISH FACE
F.H.W.S.	FLAT HEAD WOOD SCREW
FIN.	FINISH
FLR.	FLOOR
FLS'G	FLASHING
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUDS
F.O.W.	FACE OF WALL
F.P.	FIREPROOF
F.R.P.	FIBER REINFORCED PANEL
FT.	FOOT OR FEET
FTG.	FOOTING
F.V.	FIELD VERIFY
GA.	GAUGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
G.I.	GALVANIZED IRON
GND.	GROUND
GYP. BD.	GYPSUM WALLBOARD
GLU-LAM.	GLUED LAMINATE
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
HDBD.	HARDBOARD
HDWD.	HARDWOOD
HDWE.	HARDWARE
H.M.	HOLLOW METAL
HORZ.	HORIZONTAL
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
I.S.A.	INTERNATIONAL SYMBOL OF ACCESSIBILITY
INSUL.	INSULATION
INT.	INTERIOR
J.B.	JUNCTION BOX
J.H.	JOIST HANGER
LAM.	LAMINATE
LAV.	LAVATORY
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MRGB.	MOISTURE RESISTANT GYPSUM BOARD
MTL.	METAL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD OR OVERHAND
OPNG.	OPENING
OPP.	OPPOSITE
O/	OVER
P.LAM.	PLASTICE LAMINATE
PLYWD.	PLYWOOD
P.M.	PRESSED METAL
P.M.F.	PRESSED METAL FRAME
PNL.	PANEL
P.O.C.	POINT OF CONNECTION
PR.	PAIR
PROP.	PROPERTY
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
P.T.D.	PAPER TOWEL DISPENSER
Q.T.	QUARRY TILE
RAD.	RADIUS
R.D.	ROOF DRAIN
REBAR.	REINFORCING BAR
REF.	REFERENCE
REINF.	REINFORCED
REG.	REGULAR
RESIL.	RESILIENT
REQ'D.	REQUIRED
RF.	ROUGH
RM.	ROOM
R.O.	ROUGH OPENING
RWD.	REDWOOD
R.W.L.	RAIN WATER LEADER
S.D.	STORM DRAIN
S.C.	SOLID CORE
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
S.M.	SHEET METAL
S.M.S.	SHEET METAL SCREW
SPEC'S	SPECIFICATIONS
SQ.	SQUARE
S.STL.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
S.S.	SANITARY SEWER
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T&G	TONGUE AND GROOVE
TEL.	TELEPHONE
TEMP.	TEMPERATURE
THRESH.	THRESHOLD
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FRAMING
T.O.P.	TOP OF PAVEMENT
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
T.P.D.	TOILET PAPER DISPENSER
T.S.	STRUCTURAL TUBE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U.O.N.	UNLESS OTHERWISE NOTED
UNF.	UNFINISHED
V.C.F.	VINYL COATED FABRIC
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
V.T.B.	VINYL TRACK BOARD
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W.H.	WATER HEATER
W.M.	WATERPROOFING MEMBRANE
W/O	WITHOUT
W.P.	WATERPROOF
W.R.	WATER RESISTANT
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC

VICINITY MAP

PROJECT LOCATION

NOT TO SCALE

NORTH

GROCERY OUTLET bargain market℠

STORE NUMBER: 3707 LOCATION

4951 BIDDLE ROAD
CENTRAL POINT, OR 97502

THESE PLANS SHALL BE USED IN CONJUNCTION WITH THE GROCERY OUTLET TYPICAL STORE SPECIFICATIONS DATED SEPTEMBER 2022.

PROJECT DIRECTORY

LANDLORD / PROPERTY OWNER
CENTRAL HOOF, LLC
PO BOX 1800
CORVALLIS, OR 97339

CONTACT: DARREN DICKERHOOF
(541) 740-8610
E-MAIL: Darren@dickerhoof.com

TENANT / OWNER
GROCERY OUTLET, INC.
5650 HOLLIS STREET
EMERYVILLE, CA 94608
CONTACT: SHANA SEENO, CPM
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ARCHITECT
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SUITE 800N
CHICAGO, IL 60631
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E-MAIL: jmallek@greenbergfarrow.com

STRUCTURAL ENGINEER
VLMK ENGINEERING + DESIGN
3933 SOUTH KELLY AVENUE
PORTLAND, OR 97239

CONTACT: JUSTIN ELLIOT
(503) 504-2581
E-MAIL: justin@vlmk.com

MECH, ELEC, PLUMB, & REFRIG ENGINEER
COOLSYS ENGINEERING DESIGN
4275 NORTH PALM STREET
SUITE 100
FULLERTON, CA 02835
CONTACT: BEN ROSENZWEIG
(937) 216-7098
E-MAIL: brosenzweig@coolsys.com

INDEX OF DRAWINGS

SHEET NUM.	SHEET NAME	PERMIT SET 02/24/2025
GENERAL		
G0-01	COVER SHEET	●
G0-02	GENERAL NOTES	●
G1-01	CODE & EGRESS INFORMATION	●
G5-11	ACCESSIBILITY INFORMATION (2017 ANSI)	●
STRUCTURAL		
S0-01	STRUCTURAL NOTES AND SPECIAL INSPECTIONS	●
S1-01	FOUNDATION PLAN	●
S1-11	ROOF FRAMING PLAN	●
S4-12	EQUIPMENT PLATFORM FRAMING PLANS & DETAILS	●
S5-01	FOUNDATION & CMU WALL DETAILS	●
S5-11	ROOF FRAMING DETAILS	●
S6-01	MISCELLANEOUS TENANT DETAILS	●
ARCHITECTURAL SITE		
AS1-01	OVERALL SITE PLAN	●
DEMOLITION		
AD1-01	UNDERGROUND PLUMBING PLAN	●
ARCHITECTURAL		
A1-01	FLOOR PLAN	●
A1-21	REFLECTED CEILING PLAN	●
A1-31	ROOF PLAN	●
A2-11	INTERIOR ELEVATIONS - SALE FLOOR & OFFICES	●
A2-12	INTERIOR ELEVATION - SUPPORT AREAS	●
A2-13	INTERIOR ELEVATIONS - STOCK AREA	●
A4-01	ENLARGED PLANS	●
A5-01	HEAD/JAMB AND CASEWORK DETAILS	●
A5-02	PARTITION TYPES, INFORMATION, AND DETAILS	●
A5-11	PLATFORM DETAILS	●
A5-21	P.O.S. & REFRIG. CHASE DETAILS	●
A6-01	SCHEDULES	●
A8-01	FIXTURE PLAN	●
MECHANICAL		
M0-01	GENERAL NOTES AND SPECIFICATIONS	●
M1-01	HVAC FLOOR PLAN	●
M1-21	HVAC ROOF PLAN	●
M1-31	HVAC ENERGY MGMT AND WIRING DIAGRAMS	●
M5-01	HVAC EQUIPMENT DETAILS	●
M5-21	HVAC INSTALLATION DETAILS	●
M6-01	HVAC SCHEDULES AND CALCULATIONS	●
M7-01	ENERGY COMPLIANCE FORMS	●
M7-02	ENERGY COMPLIANCE FORMS	●
PLUMBING		
P0-01	GENERAL NOTES AND SPECIFICATIONS	●
P1-01	PLUMBING FLOOR PLAN - WASTE & VENT	●
P1-02	PLUMBING FLOOR PLAN - DOMESTIC WATER & NATURAL GAS	●
P1-03	PLUMBING ROOF PLAN	●
P4-01	PLUMBING ENLARGED PLANS	●
P5-01	PLUMBING DETAILS	●
P6-01	PLUMBING SCHEDULES AND CALCULATIONS	●
P7-01	ENERGY COMPLIANCE FORMS	●
P9-01	PLUMBING RISER DIAGRAMS	●
ELECTRICAL		
E0-01	ELECTRICAL OVERVIEW SHEET	●
E0-02	ELECTRICAL SPECIFICATIONS	●
E1-01	OVERALL ELECTRICAL SITE PLAN	●
E1-11	LIGHTING PLAN	●
E1-12	INTERIOR EMERGENCY LIGHTING PHOTOMETRICS	●
E1-13	EXTERIOR LIGHTING PHOTOMETRICS	●
E1-21	POWER PLAN	●
E1-31	REFRIGERATION POWER PLAN	●
E1-51	ROOF POWER PLAN	●
E4-01	ENLARGED ELECTRICAL PLANS	●
E5-01	ELECTRICAL DETAILS	●
E5-02	ELECTRICAL DETAILS II	●
E6-01	ELECTRICAL SINGLE LINE DIAGRAM	●
E6-02	ELECTRICAL PANEL SCHEDULES	●
E7-01	ENERGY COMPLIANCE FORMS	●
REFRIGERATION		
R1-01	FIXTURE, REFRIGERATION & PLUMBING FLOOR PLAN	●
R1-21	ELECTRICAL & EMS FLOOR PLAN	●
R1-31	EQUIPMENT LOCATION & PARTIAL ROOF PLAN	●
R5-01	REFRIGERATION INSTALLATION DETAILS	●
R5-21	REFRIGERATION CASE DETAILS	●
R5-31	REFRIGERATION EQUIPMENT & TYP. ELEVATION DETAILS	●
R6-01	REFRIGERATION SCHEDULE	●
R6-21	ELEC REUIREMENTS SCHEDULE & DEFROST SCHEMES	●
R8-01	ENERGY MANAGEMENT LAYOUT & POINT ASSIGNMENTS	●
R8-02	ENERGY MANAGEMENT WIRING DIAGRAMS	●
R8-21	REFRIGERATION PLACARDS	●

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PROJECT TEAM

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED ARCHITECT
JANEL MALLEK
ARLINGTON HEIGHTS, IL
ARI-1490
STATE OF OREGON
Expires: 12/31/26

PROFESSIONAL IN CHARGE
J. MALLEK
PROJECT MANAGER
J. MALLEK
QUALITY CONTROL
J. MALLEK
DRAWN BY
M. BYRNE

PROJECT NAME
GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0

SHEET TITLE
COVER SHEET

SHEET NUMBER
G0-01

Last Modified: 3/4/2025 11:37:45 AM Drawing Name:C:\Users\jbolejo\Documents\526 Central Point, OR= Arch= R22_docs.rvt Central Point, OR= Arch= R22_docs@greenbergfarrow.com.rvt

GENERAL SITE NOTES:

1. UNLESS OTHERWISE INDICATED, WHERE NOTED ON THE DRAWINGS, THE TERMS "OWNER", "TENANT" AND "GOI" REFER TO GROCERY OUTLET INC. - THE TERMS "PROPERTY OWNER" AND "LANDLORD" REFER TO THE LANDLORD AS DEFINED IN THE LEASE.
2. ALL MATERIALS AND WORK SHALL CONFORM TO THE LATEST EDITION OF THE STATE AND LOCAL BUILDING CODES, ORDINANCES, AND REGULATIONS AND OTHER GOVERNING LOCAL AGENCIES AS REQUIRED. ONE (1) COPY OF THESE CODES AND REGULATIONS SHALL BE MADE AVAILABLE AT THE CONTRACTORS FIELD OFFICE DURING CONSTRUCTION.
3. WHERE NOTED ON THE DRAWINGS, CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR INTERPRETATION AND/OR CORRECTIONS PRIOR TO INSTALLATION. COST OF CORRECTING WORK BASED ON MISINTERPRETATION BY CONTRACTOR OR UNREPORTED DIMENSIONAL DISCREPANCIES SHALL BE BORNE BY THE CONTRACTOR. 'CLEAR' SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL FINISHES INCLUDING CARPET, PAD, CERAMIC TILE, V.C.T., ETC.
4. UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C.) OR EXISTING (E) ALL OTHER ITEMS, MATERIALS AND INSTALLATION ARE TO BE NEW AND ARE PART OF THE CONTRACT, AS DEFINED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS, AND ASSEMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED.
5. CONTRACTOR IS RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION ON THE DOCUMENTS.
6. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL HOURS; AND THAT THE CONTRACTOR SHALL DEFEND: INDEMNIFY AND HOLD THE OWNER AND THE ARCHITECT HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
7. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATION AMONG ALL THE VARIOUS SUBCONTRACTORS.
8. GENERAL CONTRACTOR SHALL COORDINATE ALL UNDERGROUND ITEMS WITH THE PLUMBING, ELECTRICAL, AND OR REFRIGERATION DRAWINGS, ETC. AS REQUIRED.
9. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL SECTIONS. ACCESS PANELS SHALL BE LOCATED, PER CODE AND FURNISHED AND INSTALLED IN WALLS OR CEILINGS WITH MATCHING RATINGS. FINISH AND LOCATION SHALL BE APPROVED BY THE DEVELOPER PRIOR TO FABRICATION AND INSTALLATION.
10. CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL EQUIPMENT PADS AND BASES WITH EQUIPMENT MANUFACTURERS AND SHALL VERIFY ALL SIZES AND LOCATION OF DUCT OPENINGS ON ROOF AND INTERIOR SHAFTS.
11. GENERAL CONTRACTOR SHALL NOTIFY ALL APPLICABLE LOCAL GOVERNING AUTHORITIES AND UTILITIES PRIOR TO COVERING UP ANY WORK REQUIRING INSPECTION.
12. ALL COSTS FOR INSPECTIONS, TESTS, AND BUILDING PERMITS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
13. THE CONTRACTOR TO INCLUDE COST FOR ALL REQUIRED SITE STAKING.
14. CONTRACTOR SHALL PROVIDE PEDESTRIAN PROTECTION AS PER LOCAL JURISDICTION.
15. SEPARATE PERMITS MAY BE REQUIRED FOR PEDESTRIAN PROTECTION, DEMOLITION, PLUMBING, ELECTRICAL, MECHANICAL WORK, AND AS REQUIRED BY THE LOCAL COVERING AGENCIES.
16. THE GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT SHALL BE NOTIFIED BY THE CONTRACTOR AND OWNER THAT GRADING IS TO COMMENCE AND MAKE ALL NECESSARY ARRANGEMENTS FOR FIELD INSPECTION.
17. SIGN CONTRACTOR SHALL ACQUIRE SEPARATE BUILDING DEPARTMENT PERMITS FOR INSTALLATION OF ALL EXTERIOR BUILDING SIGNS AS REQUIRED BY LOCAL ORDINANCES.
18. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. GC SHALL BE LIABLE FOR DAMAGES/REPAIRS.
19. THE CONTRACTOR SHALL LOCATE ALL UTILITY CONNECTIONS WITHIN 5'-0" OF THE BUILDING AND PROTECT UNTIL ALL CONNECTIONS AND TESTING ARE COMPLETED. CONTRACTOR SHALL TAG ALL CONNECTIONS WHERE FINISH SURFACES ARE PERMANENT. (I.E. CONCRETE, A.C., PAVING ETC.)
20. ALL WORK SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE STATE AND THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION.
21. THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR CONSTRUCTION WATER. DUST SHALL BE CONTROLLED BY WATERING AS REQUIRED.
22. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE ON THE DRAWINGS. DO NOT SCALE THE DRAWINGS.
23. NO FLOORS TO BE POURED UNTIL ALL ELECTRICAL AND MECHANICAL INSTALLATIONS HAVE BEEN APPROVED BY GOVERNING AGENCIES.
24. TROWEL SLAB FOR SMOOTH FINISH WITH NO TROWEL MARKS SHOWING WHEREVER CONCRETE FLOOR IS EXPOSED.
25. INTERIOR CONCRETE SLABS SHALL BE POURED LEVEL (UNLESS OTHERWISE INDICATED) 1/8" TOLERANCE ON A 10'-0" EDGE IN ANY GIVEN DIRECTION.
26. COVER ALL CONCRETE SLAB SURFACES WITH WET CURING BLANKETS BEFORE POURING ADJACENT CONCRETE SLABS OR ASPHALTIC CONCRETE PAVING. CONCRETE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY SPLASHING OF FRESH CONCRETE.
27. ALL COMBUSTIBLES CONSISTING OF BOXES, SCRAP LUMBER, ETC., ON THE CONSTRUCTION SITE SHALL BE CLEANED UP AND DISPOSED OF IN AN APPROVED MANNER ON A DAILY BASIS.
28. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOLTS, NAILS, FRAMING CLIPS, WASHERS, PLATES, HANGERS, ETC., FOR A COMPLETE INSTALLATION WHETHER OR NOT SPECIFIED OR INDICATED ON THE PLANS.
29. CONTRACTOR TO VERIFY THAT ROOF ELEVATIONS SHOWN ON PLANS PROVIDE POSITIVE ROOF DRAINAGE AND THAT THEY CONFIRM TO MINIMUM DRAINAGE STANDARDS PRIOR TO ROOFING.
30. IF STORING, USING, OR HANDLING ANY AMOUNTS OF HAZARDOUS MATERIAL OR FLAMMABLE/COMBUSTIBLE LIQUIDS OR CHEMICALS, COMPLY WITH REQUIREMENTS SET FORTH IN HAZARDOUS MATERIALS ORDINANCE BY LOCAL JURISDICTION.
31. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL TRADE WORK TO THE ARCHITECT FOR REVIEW, AND ALSO FOR ITEMS CALLED OUT AS 'OR EQUAL', AND IN ACCORDANCE WITH THE SPECIFICATIONS.
32. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF DRAWINGS AT THE JOB SITE FOR USE IN MAKING RECORD DRAWINGS. ANY REVISIONS SHALL BE NOTED THEREON AND SUBMITTED TO THE ARCHITECT AT THE COMPLETION OF THE JOB PER THE SPECIFICATIONS. PROVIDE A COPY FOR THE OWNER PER CONSTRUCTION DOCUMENTS.
33. THE CONTRACTOR SHALL INFORM THE FIRE DEPT. OF THE REQUIRED FINAL INSPECTION AND SCHEDULE SUCH INSPECTION.
34. THE ENTIRE WORK PROVIDED FOR HEREIN IS TO BE CONSTRUCTED AND FINISHED IN EVERY PART IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, TO THE FULL INTENT OF THE SAME. ANY WORK REQUIRED BY LAW, BUT WHICH MAY NOT BE SPECIFICALLY MENTIONED IN THESE PLANS, SHALL BE DONE BY CONTRACTOR IN ACCORDANCE WITH THE LAWS OF THE COUNTY, DISTRICT, OR STATE UNDER WHICH JURISDICTION MAY COME AND COST SHALL BE BORNE BY CONTRACTORS. ANY SUCH WORK SHALL BE DONE IN CONFORMANCE WITH THE PLAN; BOTH AS TO MANNER AND APPEARANCE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LOCAL GOVERNING AGENCIES.
35. THE OWNER AND/OR ARCHITECT RESERVE THE RIGHT TO HAVE TESTS MADE WHEN DEEMED NECESSARY. SHOULD THE ARCHITECT ORDER SPECIAL TESTING OR INSPECTION OF A QUESTIONABLE PART OF THE WORK WHICH REVEALS DEFECTS NOT IN CONFORMITY WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PAY THE COST OF SUCH SPECIAL TESTING OR INSPECTIONS INCLUDING THE ARCHITECT'S EXTRA SERVICES MADE NECESSARY THEREBY. OTHERWISE THE OWNER SHALL BEAR SUCH COST.
36. TESTS SHALL BE MADE IN ACCORDANCE WITH RECOGNIZED STANDARDS BY A COMPETENT, INDEPENDENT TESTING LABORATORY. ANY MATERIAL FOUND DEFECTIVE OR NOT IN CONFORMITY WITH SPECIFICATIONS STANDARDS SHALL BE PROMPTLY REPLACED OR REPAIRED AT THE EXPENSE OF THE CONTRACTOR. SAMPLES REQUIRED FOR TESTING WILL BE FURNISHED BY THE CONTRACTOR.
37. GENERAL CONTRACTOR SHALL SIGN AND SUBMIT TO THE DEPARTMENT OF BUILDING AND SAFETY A "CERTIFICATE OF COMPLIANCE" STATING THAT THE WORK HAS BEEN PERFORMED AND MATERIALS INSTALLED ACCORDING TO THE PLANS AND SPECIFICATIONS AFFECTING NON-RESIDENTIAL ENERGY.
38. CONTRACTOR TO PROVIDE PARKING SPACES ON SITE FOR BUILDING OFFICIALS, ARCHITECTS, ETC. THE VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
39. AFTER INSTALLING WALL, CEILING, OR FLOOR INSULATION, THE INSTALLER SHALL POST IN A CONSPICUOUS LOCATION IN THE BUILDING A CERTIFICATE SIGNED BY THE INSTALLER STATING THAT THE INSTALLATION CONFORMS WITH THE PLANS AND REQUIREMENTS OF THE PROJECT SPECIFICATIONS. THE CERTIFICATE SHALL ALSO STATE THE MANUFACTURER'S NAME AND MATERIAL IDENTIFICATION AND THE INSTALLED R-VALUE.
40. CONTRACTOR SHALL PROVIDE ACCESS PANELS AS REQUIRED BY PLUMBING, AIR CONDITIONING, AND OTHER INSTALLERS AS REQUIRED BY CODE.
41. ANY DAMAGE BY G.C. OR SUBCONTRACTOR TO EXISTING ASPHALTIC PAVEMENT, EXISTING LANDSCAPING, OR ADJACENT TENANT'S BUILDINGS SHALL BE REPAIRED BY G.C. AT NO COST TO DEVELOPER OR TENANT.
42. CONTRACTOR TO INSPECT & VERIFY CONDITIONS OF SITE PRIOR TO CONSTRUCTION & NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS & SCOPE OF WORK DESCRIBED IN THESE PLANS & SPECIFICATIONS.
43. IN THE EVENT OF DISCREPANCIES BETWEEN ANY DRAWINGS AND/OR SPECIFICATIONS, THE COSTLIER OR MORE RESTRICTIVE CONDITIONS SHALL BE DEEMED THE CONTRACT REQUIREMENT, UNLESS OTHERWISE STATED IN WRITING, FROM THE DEVELOPER.
44. ALL SAW CUTTING AND CORING LOCATIONS SHALL BE REVIEWED IN THE FIELD BY THE OWNER'S REPRESENTATIVE AND STRUCTURAL ENGINEER PRIOR TO CUTTING/CORING. NO OVER-CUTTING IS TO BE ACCEPTED BY OWNER. ANY OVERCUTS TO BE REPAIRED / RE-POURED BY GC AT THE COST OF THE GC.
45. CONTRACTOR TO BE RESPONSIBLE FOR LOSS OR DAMAGE OF ITEMS NOTED ON PLANS, WHETHER IN CONTRACT OR NOT IN CONTRACT, ONCE DELIVERED TO SITE.
46. IF GRADING OR OTHER CONSTRUCTION OPERATIONS UNEARTH ARCHAEOLOGICAL OR HISTORIC ARTIFACTS OR RESOURCES, CONSTRUCTION ACTIVITIES SHALL CEASE UNTIL A QUALIFIED HISTORICAL ARCHAEOLOGIST HAS EVALUATED THE MATERIALS SO THAT THEY MAY BE RECORDED. DISPOSITION OF ARTIFACTS SHALL COMPLY WITH STATE AND FEDERAL LAWS.

FIRE DEPARTMENT NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE FIRE CODE AND ALL ADOPTED REFERENCE STANDARDS.
2. HAZARDOUS MATERIALS TO BE STORED AND/OR USED WITHIN THE BUILDING SHALL COMPLY WITH QUANTITIES LISTED IN THE BUILDING AND/OR GREEN CODE
3. FIRE SPRINKLER SYSTEM WORK SHALL BE PERFORMED UNDER SEPARATE PERMIT. FIRE SPRINKLER SUBCONTRACTOR SHALL BECOME FAMILIAR WITH DESIGN CRITERIA PRIOR TO COMMENCING DESIGN WORK. SUBMIT PLANS FOR APPROVAL TO THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
4. NO FIRE ALARM, FIRE SPRINKLER, OR FIRE DAMPER WORK SHALL BE CONCEALED WITHOUT THE APPROVAL OF BOTH THE BUILDING AND FIRE INSPECTORS.
5. FIRE HYDRANTS SHALL BE TESTED AND APPROVED AND FIRE ACCESS ROADS MADE SERVICEABLE PRIOR TO DELIVERY OF COMBUSTIBLE MATERIALS ON SITE. ALL CONSTRUCTION WORK IS SUBJECT TO A STOP WORK ORDER IF ACCESS ROADS BECOME IMPASSABLE OR FIRE HYDRANTS INOPERABLE.
6. G.C. SHALL MAINTAIN ALL EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES, AND ALARMS IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES FOR THE ENTIRE DURATION OF THE WORK.
7. STORAGE, DISPENSING, OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GASES, OR HAZARDOUS CHEMICALS SHALL COMPLY WITH THE FIRE CODE REQUIREMENTS.
8. STREET ADDRESS NUMBERS AND/OR SUITE NUMBERS ARE TO BE POSTED IN A LOCATION VISIBLE FROM THE STREET. NUMBERS SHALL BE A MINIMUM OF 6" IN HEIGHT. NUMBERS SHALL BE OF A HIGHLY CONTRASTING COLOR COMPARED TO THE BACKGROUND OF WHICH THEY ARE APPLIED. NUMBERS PLACED ON GLASS SHALL HAVE A CONTRASTING COLOR APPLIED TO THE GLASS.
9. A KNOX KEY BOX SHALL BE INSTALLED WITHIN 20 FEET OF THE MAIN ENTRANCE AT A HEIGHT NO GREATER THAN 7 FEET FROM THE MAIN FLOOR. KEY BOX LOCATIONS AND TYPE ARE TO BE APPROVED BY THE FIRE MARSHAL'S OFFICE
10. THE MAXIMUM FLAME SPREAD CLASS OF FINISH MATERIALS USED ON THE INTERIOR WALLS AND CEILINGS SHALL NOT EXCEED CLASS B FOR EXITWAYS AND CLASS C FOR ROOMS OR AREAS PER THE BUILDING CODE.
11. WHERE FIXTURES ARE SIX FEET OR HIGHER, ADDITIONAL ILLUMINATED EXIT SIGNS ARE REQUIRED TO BE PROVIDED, SHOWING THE EXIT PATHWAY, PER THE BUILDING CODE SECTION. THE NUMBER AND LOCATION TO BE DETERMINED BY THE FIRE INSPECTOR.
12. THE WATER FLOW SWITCH FOR THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE MONITORED BY A U.L. LISTED CENTRAL, REMOTE, OR PROPRIETARY MONITORING STATION.
13. TAMPER SWITCHES SHALL BE PLACED ON ALL VALVES CONTROLLING THE WATER SUPPLY TO THE AUTOMATIC FIRE SPRINKLER SYSTEM. VALVES CONTROLLING WATER SUPPLY SHALL INCLUDE: P.I.V., O.S. & Y., AND ON THE DOUBLE DETECTOR CHECK VALVES ON THE SPRINKLER RISER OR ANY OTHER VALVE CONTROLLING THE WATER SUPPLY.
14. ALL FIRE-RATED ASSEMBLIES SHALL BE DETERMINED, AND SHALL BE LABELED AND INSPECTED, IN ACCORDANCE WITH THE BUILDING CODE.
15. FIRE DAMPERS OR FIRE DOORS SHALL BE PROVIDED WHERE AIR DUCTS OR OPENINGS PENETRATE FIRE RATED SURFACES.
16. APPLICABLE CODES AND FIRE DEPARTMENT FIELD INSPECTOR SHALL DICTATE SIZE, TYPE, QUALITY, AND LOCATIONS OF TEMPORARY EXTINGUISHERS.
17. PROVIDE PERMANENT PORTABLE FIRE EXTINGUISHERS PER NFPA-10, WITH A MINIMUM RATING OF 2A:10B:C. TRAVEL DISTANCE TO A FIRE EXTINGUISHER SHALL NOT EXCEED 75 FEET. EXTINGUISHERS SHALL BE MOUNTED ON A WALL (COLUMN) WITH AN APPROPRIATE BRACKET OR IN A CABINET NO MORE THAN 4 FEET ABOVE FINISH FLOOR. EXTINGUISHERS SHALL BE COMMERCIAL GRADE, CURRENTLY TAGGED (OR HAVE A MANUFACTURER DATE CLEARLY MARKED) ON THE EXTINGUISHER. SEE PLAN FOR LOCATIONS - VERIFY WITH THE FIRE MARSHAL PRIOR TO OCCUPANCY.

DOOR NOTES:

1. ALL HARDWARE SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE.
2. A SIGN THAT READS 'THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED' WITH MINIMUM ONE (1) INCH HIGH LETTERS SHALL BE PROVIDED ADJACENT TO OR DIRECTLY ABOVE THE EXIT DOOR (FRONT ENTRANCE).
3. ALL HARDWARE SHALL BE THE LEVER TYPE WHERE REQUIRED BY THE BUILDING AND ACCESSIBILITY CODE MOUNTED BETWEEN +34" & +44" A.F.F.
4. LATCHING & LOCKING DOORS THAT ARE HAND ACTIVATED & IN THE PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE ACTION LEVER TYPE HARDWARE OR BY PANIC BARS OR PUSH/PULL BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
5. PROVIDE CYLINDER GUARDS ON ALL MORTISE OR RIM TYPE CYLINDER LOCKS ON EXTERIOR SIDE OF DOOR WHENEVER CYLINDER PROJECTS BEYOND THE FACE OF DOOR OR IS OTHERWISE ACCESSIBLE TO CRIPPLING TOOLS.
6. ALL PIN-TYPE HINGES WHICH ARE ACCESSIBLE FROM THE EXTERIOR WHEN THE DOOR IS CLOSED SHALL HAVE NON-REMOVABLE HINGE PINS. IN ADDITION THEY SHALL HAVE A MIN. 1/4" DIAMETER STEEL JAMB STUD WITH 1/4" MIN. PROJECTIONS UNLESS THE HINGES ARE SHAPED TO PREVENT REMOVAL OF THE DOOR IF THE HINGE PINS ARE REMOVED.
7. CLEARANCE FOR GUIDE RAILS SHALL BE AS FOLLOWS:
   - 6 INCHES MAX BETWEEN RAILS & LEADING EDGE OF DOOR @ THE CLOSEST POINT IN ITS ARC OF TRAVEL.
   - 6 INCHES MAX BETWEEN RAILS & THE DOOR IN AN OPEN POSITION.
   - 2 INCHES MIN BETWEEN RAIL @ HINGE SIDE & DOOR IN AN OPEN POSITION.
   - 2 INCHES MAX BETWEEN FREESTANDING RAILS & JAMB OR OTHER ADJACENT SURFACE.
8. POWER OPERATED DOORS MUST CONFORM TO THE BUILDING CODE.
9. NO THUMB LATCHES OR KEYED CYLINDER DEAD BOLTS ALLOWED ON ANY DOORS UNLESS OPERATED BY A SINGLE ACTION WITH A LEVER.
10. MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS & SURFACE BOLTS ARE PROHIBITED AT ANY EXIT OR P.O.T. LOCATION.
11. EXIT DOORS SHALL BE OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT AND OPEN IN THE DIRECTION OF EGRESS.
12. AUTOMATIC SLIDING DOORS ARE TO BE CONSTRUCTED PER ICBO, FIRE DEPARTMENT AND BUILDING CODE STANDARD REQUIREMENTS FOR DOOR BREAK AWAY HARDWARE (REFER TO SPECIFICATIONS). PROVIDE SIGN ON EACH LEAF: "IN AN EMERGENCY, PUSH TO OPEN".
13. ALL FIRE RATED DOORS & ALL EXTERIOR SWINGING DOORS SHALL HAVE CLOSERS.
14. FIRE RATED DOORS SHALL BE A LABELED RATED ASSEMBLY W/ SMOKE GASKETS & BE SELF-CLOSING.
15. CORRIDOR & PASSAGE WAYS ARE 44" CLEAR WIDTH MIN. DOOR SWINGS INTO EXIT CORRIDORS SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN HALF.
16. WEATHER STRIP ALL EXTERIOR DOORS WITH GASKET-TYPE WEATHER STRIPPING.
17. GLASS DOOR, ADJACENT PANELS, AND ALL GLAZED OPENINGS WITHIN 18" OF THE ADJACENT FLOOR SHALL BE OF GLASS APPROVED FOR IMPACT HAZARD.
18. GLASS DOORS, ADJACENT PANELS, & ALL GLAZED OPENINGS WITH 24" OF ANY DOORS SHALL BE OF GLASS APPROVED FOR IMPACT HAZARD.
19. REFER TO MECHANICAL PLANS FOR ANY UNDERCUTS REQUIRED ON DOORS.
20. A LEVEL FLOOR OR LANDING NOT MORE THAN 1/4" BELOW THE THRESHOLD SHALL BE PROVIDED ON BOTH SIDES OF EXIT DOORS.
21. PROVIDE NOT MORE THAN 1/4" GAP UNDER ALL INTERIOR EXIT DOORS (TYPICAL).
22. THE LOWER 10" OF ANY DOORS SHALL HAVE SMOOTH FLUSH DURABLE SURFACE.

EXITING NOTES:

1. 'EXIT' SIGNS SHALL BE IN BLOCK LETTERS, A MINIMUM OF SIX (6) INCHES HIGH WITH A STROKE OF NOT LESS THAN 3/4 INCH. LUMINANCE ON FACE OF SIGN SHALL BE MINIMUM OF 5 FT CANDLES PER THE BUILDING CODE
2. 'EXIT' SIGNS SHALL BE ELECTRICALLY ILLUMINATED AND ENERGIZED FROM SEPARATE CIRCUITS AS SHOWN ON ELECTRICAL PLAN(S). ONE OF THE ABOVE CIRCUITS SHALL BE PART OF THE EMERGENCY LIGHTING SYSTEM.
3. PROVIDE TACTILE EXIT SIGN AT ALL GRADE LEVEL EXIT DOORS PER THE BUILDING CODE.
4. PER THE BUILDING CODE MEANS OF EGRESS ARE NOT PROHIBITED THROUGH STOCKROOMS IN GROUP 'M' OCCUPANCIES WHEN ALL OF THE FOLLOWING ARE MET:
   - THE STOCK IS OF THE SAME HAZARD CLASSIFICATION AS THAT FOUND IN THE MAIN RETAIL AREA.
   - NOT MORE THAN 50% IF EXIT ACCESS IS THROUGH THE STOCKROOM.
   - THE STOCKROOM IS NOT SUBJECT TO LOCKING FROM THE EGRESS SIDE.
   - THERE IS A DEMARCATED, MINIMUM 44-INCH-WIDE AISLE DEFINED BY FULL OR PARTIAL HEIGHT WALLS OR SIMILAR CONSTRUCTION THAT WILL MAINTAIN THE REQUIRED WIDTH AND LEAD DIRECTLY FROM THE RETAIL AREA TO THE EXIT WITHOUT OBSTRUCTIONS.

MISCELLANEOUS:

1. WHERE GAS SERVICE IS BEING PROVIDED, CONTRACTOR TO PROVIDE AN OUTSIDE GAS SHUTOFF VALUE CONSPICUOUSLY MARKED.
2. PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR MATERIALS, WHERE REQUIRED.
3. PROVIDE METAL TRIM OR CASING AT ALL EDGES OF EXTERIOR CEMENT PLASTER AND DRYWALL SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTES OTHERWISE.
4. PROVIDE METAL CORNER BEADS AT ALL OUTSIDE CORNERS OF EXTERIOR CEMENT PLASTER AND DRYWALL SURFACES, UNLESS NOTES OTHERWISE.
5. CONTRACTOR TO PROVIDE 3X FIRE TREATED WOOD BLOCKING OR METAL STUD BACKING BEHIND ALL TOILET ROOM ACCESSORIES, GRAB BARS HANDRAILS, WOOD TRIM AND WALL MOUNTED FIXTURES.
6. UNLESS OTHERWISE NOTES, ALL EXTERIOR AND INTERIOR EXPOSED METAL TRIM, RAILINGS, MOLDING, FRAMES, CASTING, ETC., SHALL BE PRIMED AND PAINTED.
7. KEEP ALL PIPING AS CLOSE TO WALLS/ROOF AS POSSIBLE.
8. ALL DIMENSIONS ARE TO THE FACE OF STUD AND OR MASONRY UNLESS NOTED OTHERWISE.
9. ALL PENETRATIONS THROUGH ANY SURFACE SHALL BE THOROUGHLY SEALED WITH APPROPRIATE SEALANT MATERIAL OR FIRE CAULKING.
10. ALL TOILET ROOMS SHALL BE VENTILATED BY MECHANICAL MEANS, SEE APPLICABLE DRAWINGS.
11. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ADDRESS NUMBERS PER CITY REQUIREMENTS AT TRANSOMS OR STOREFRONT ENTRANCE DOORS.
12. ALL EXPOSED ELECTRICAL EQUIPMENT SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
13. CONTRACTOR TO MAKE ARRANGEMENTS WITH THE OWNER FOR CONSTRUCTION STAGING AND OBTAIN ALL NECESSARY CITY APPROVALS.
14. OCCUPANT LOAD SIGN REQUIRED IN ROOMS WITH OCCUPANT LOADS OF MORE THAN 50 PERSONS.
15. OBTAIN TENANTS LATEST CRITERIA DRAWINGS AND/OR TENANTS CONTRACTOR DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING, MECHANICAL, AND ELECTRICAL ROUGH-IN, STUB-UPS, ETC., THE GENERAL CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM TENANT'S REPRESENTATIVE PRIOR TO POURING CONCRETE FLOOR SLAB TO POURING CONCRETE FLOOR SLAB OR APPLYING FINISHES ON WALL.

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PROJECT TEAM

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED ARCHITECT
JANEL MALLEK
ARLINGTON HEIGHTS, IL
ARI-1490
STATE OF OREGON
Expires: 12/31/26

PROFESSIONAL IN CHARGE
J. MALLEK
PROJECT MANAGER
J. MALLEK
QUALITY CONTROL
J. MALLEK
DRAWN BY
M. BYRNE

PROJECT NAME

GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
G0-02

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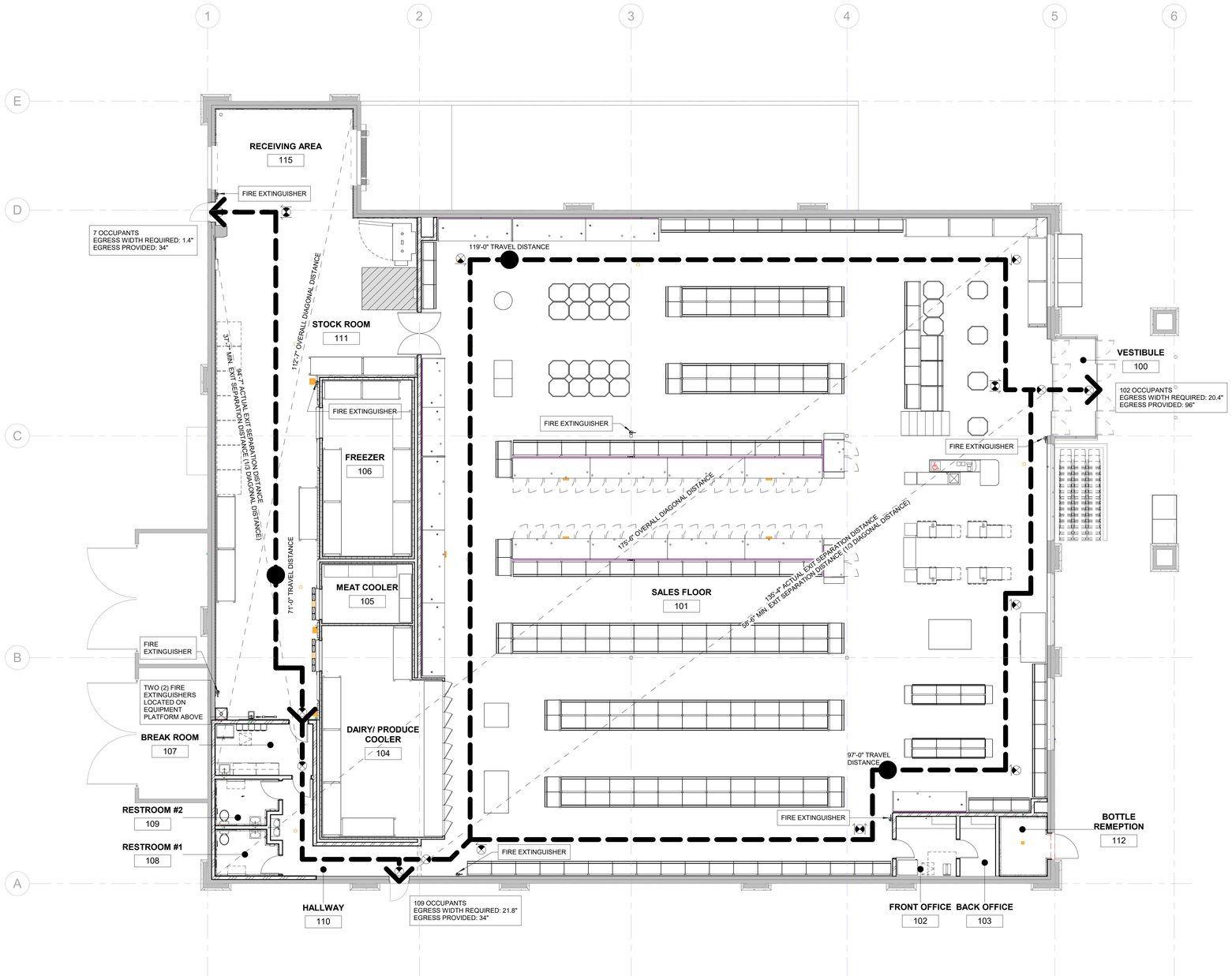

1 EGRESS PLAN
1/8" = 1'-0"

NORTH

EGRESS PLAN LEGEND

= EGRESS PATH

= HATCH INDICATES AREA NOT IN SCOPE

= FIRE EXTINGUISHER LOCATION WITH REQUIRED SIGNAGE

ALL CHECKSTANDS IN PROJECT ARE HANDICAP ACCESSIBLE, TYP.

OCCUPANT LOAD ANALYSIS

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR (TABLE 1004.5)	FLOOR AREA (SF)	NO. OF OCCUPANTS
MERCANTILE	60 GROSS	12,233	204
STORAGE/STOCK/SHIPPING	300 GROSS	3,929	14
TOTAL AREA		16,162	218

EGRESS WIDTH CALCS

NO. OF OCCUPANTS:	218
WIDTH PER OCCUPANT:	0.2 (1005.3.2)
EGRESS WIDTH REQUIRED:	43.6"
EGRESS WIDTH PROVIDED:	164"

EXIT AND EXIT ACCESS DOORWAYS

ROOM/SPACE	NO. OF EXIT REQUIRED	NO. EXITS PROVIDED
SALES FLOOR	2 (1006.2.1)	2
STOCK ROOM/RECEIVING AREA	2 (1006.2.1)	2
ALL OTHER SPACES	1 (TABLE 1006.2.1)	1

MAXIMUM TRAVEL DISTANCE

250' - WITH SPRINKLER SYSTEM (TABLE 1017.2)

PLUMBING FIXTURE CALCULATIONS

MERCANTILE (TABLE 2902.1)	WATER CLOSETS (1 PER 500 OCC.)		LAVATORIES (1 PER 750 OCC.)		DRINKING FOUNTAINS (1 PER 1000 OCC.)	SERVICE SINK
OCC. / GENDER - 218/2 = 109	MALE	FEMALE	MALE	FEMALE		
REQUIRED FIXTURES	1	1	1	1	1	1
PROVIDED FIXTURES	1	1	1	1	1	1

EXIT SIGNS

TOTAL QUANITY OF EXIT SIGNS: 22

SINGLE-SIDED EXIT SIGN

DOUBLE-SIDED EXIT SIGN

FIRE EXTINGUISHERS

TOTAL QUANTITY OF FIRE EXTINGUISHERS: 7

NOTE: ALL FIRE EXTINGUISHERS TO BE CLASS ABC, UL RATED 2A-10B:C, 5 LBS

G.C. TO FIELD VERIFY ALL FIRE EXTINGUISHER LOCATIONS WITH LOCAL FIRE MARSHAL

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PROJECT TEAM

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED ARCHITECT
JANEL MALLEK
ARLINGTON HEIGHTS, IL
ARI-14901
STATE OF OREGON
Expires: 07/31/2026

PROFESSIONAL IN CHARGE
J. MALLEK

PROJECT MANAGER
J. MALLEK

QUALITY CONTROL
J. MALLEK

DRAWN BY
M. BYRNE

PROJECT NAME

GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0

SHEET TITLE

CODE & EGRESS INFORMATION

SHEET NUMBER

G1-01

Last Modified: 3/4/2025 11:37:48 AM Drawing Name:C:\Users\dpalopoli\Documents\GO Central Point, OR- Arch- R22_dpalopoli@greenbergfarrow.com.rvt

ACCESSIBLE DOOR NOTES

1. THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE THE FLOOR WITH ONE VERTICAL EDGE NO MORE THAN 1/4". BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2.
2. ACCESSIBLE DOORS MUST BE MINIMUM 3-0"W X 6'-8"H, MODIFY EXISTING OPENINGS IF REQUIRED.
3. PROVIDE 18" CLEAR SPACE AT STRIKE/PULL SIDE ON INTERIOR DOORS, AND 12" CLEAR WIDTH SHALL BE NO LESS THAN 32 INCHES WHEN LEAF IS IN A 90 DEGREE POSITION.
4. ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS VISIBLE FROM APPROACHING PEDESTRIAN WAYS.
5. PROVIDE A 6" BY 6" INTERNATIONAL SYMBOL OF ACCESSIBILITY AT ALL PRIMARY BUILDING ENTRANCES.
6. ALL ENTRANCES & ALL EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDINGS & FACILITIES SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES.

404.2.6 DOOR AND GATE HARDWARE

HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DORS AND GATES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE. THE OPERATIONAL FORCE TO RETRACT LATCHES OR DISENGAGE DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION SHALL BE AS FOLLOWS:

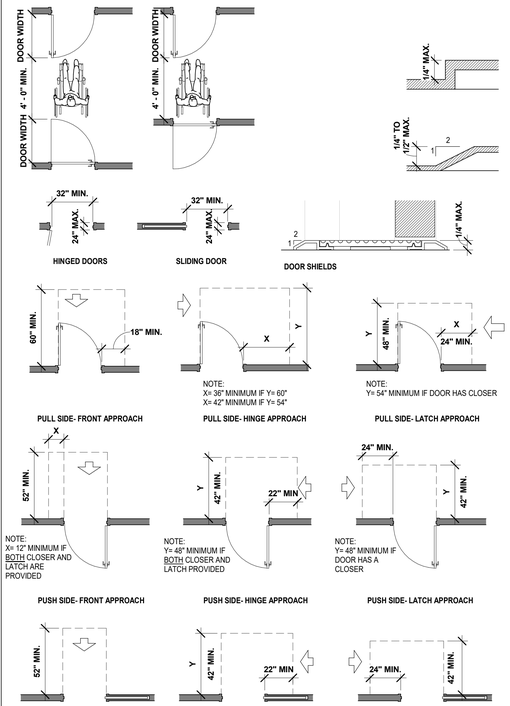
1. HARDWARE OPERATION BY A FORWARD, PUSHING OR PULL MOTION: 15 POUNDS (66.7 N) MAXIMUM.
2. HARDWARE OPERATION BY A ROTATION MOTION: 28 INCH-POUNDS (315 N-CM) MAXIMUM.

404.2.6.1 HARDWARE HEIGHT

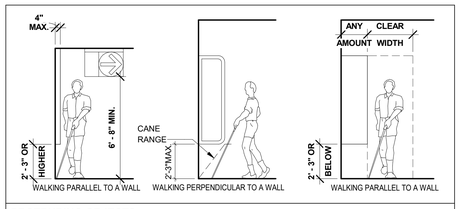
OPERABLE PARTS OF SUCH ARDWARE SHALL BE 34 INCHES (865 MM) MINIMUM AND 48 INCHES (1220MM) MAXIMUM ABOVE THE FLOOR. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

404.2.7 CLOSING SPEED

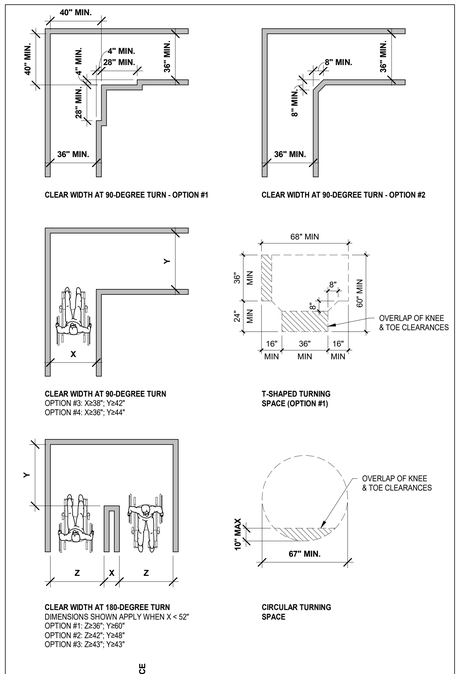
DOOR AND GATE CLOSING SPEED SHALL COMPLY WITH 404.2.7



ACCESSIBLE DOOR REQUIREMENTS



PROTRUDING OBJECTS



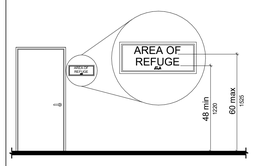
PATH OF TRAVEL

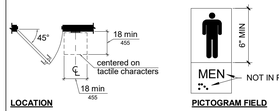
4.30 SIGNAGE

4.30.2 CHARACTER PROPORTION.
LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1, AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10, UTILIZING AN UPPER-CASE "X" FOR MEASUREMENT.

4.30.4 RAISED AND BRAILLED CHARACTERS, AND PICTORIAL SYMBOL SIGNS (PICTOGRAMS).
LETTERS AND NUMERALS SHALL BE RAISED 1/32" (0.8 MM) MINIMUM. UPPERCASE; SANS SERIF, OR SIMPLE SANS SERIF TYPE SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" (16MM) HIGH, BUT NO HIGHER THAN A NOMINAL 2" (51MM).

4.30.7 SYMBOLS OF ACCESSIBILITY.
FACILITIES AND ELEMENTS TO BE INDENTIFIED AS ACCESSSIBLE BY 4.1, SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.



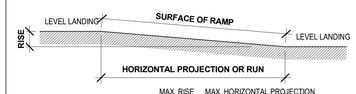


SIGN REQUIREMENTS

4.8 RAMPS

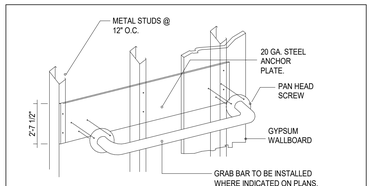
4.8.4 LANDINGS: RAMPS SHALL HAVE LEVEL LANDING AT THE BOTTOM AND TOP OF EACH RAMP, AND EACH RUN. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:
1.THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.
2.THE LANDING LENGTH SHALL BE A MINIMUM OF 60" (1525 MM) CLEAR.
3.IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60" BY 60" (1525 MM BY 1525 MM) 4. IF A DOORWAY IS LOCATED AT A LANDING, THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY WITH 4.13.6.

4.8.5 HANDRAILS IF A RAMP RUN HAS A RISE GREATER THAN 6" (150 MM), OR A HORIZONTAL PROJECTION GREATER THAN 72" (1830 MM), THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS SHALL HAVE THE FOLLOWING FEATURES:
1.HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.
2.IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" (305 MM) BEYOND THE TOP, AND BOTTOM OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.

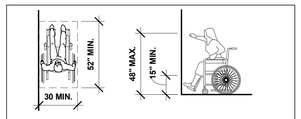


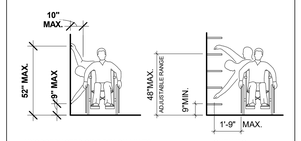
Slope	MAX. RISE in	MAX. HORIZONTAL PROJECTION ft
1:12 to< 1:16	30	30
1:16 to< 1:20	30	40

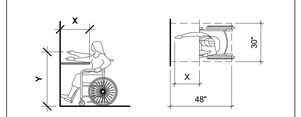
RAMP REQUIREMENTS



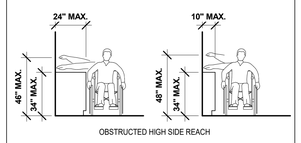
GRAB BAR REINFORCEMENT DETAIL



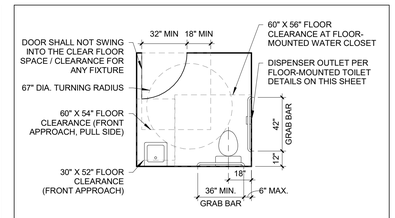




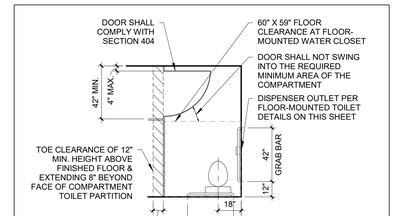
NOTE:
WHEN X<20" THEN Y SHALL BE 48" MAX
WHEN X >20" - 25" THEN Y SHALL BE 44" MAX



ACCESSIBLE REACH

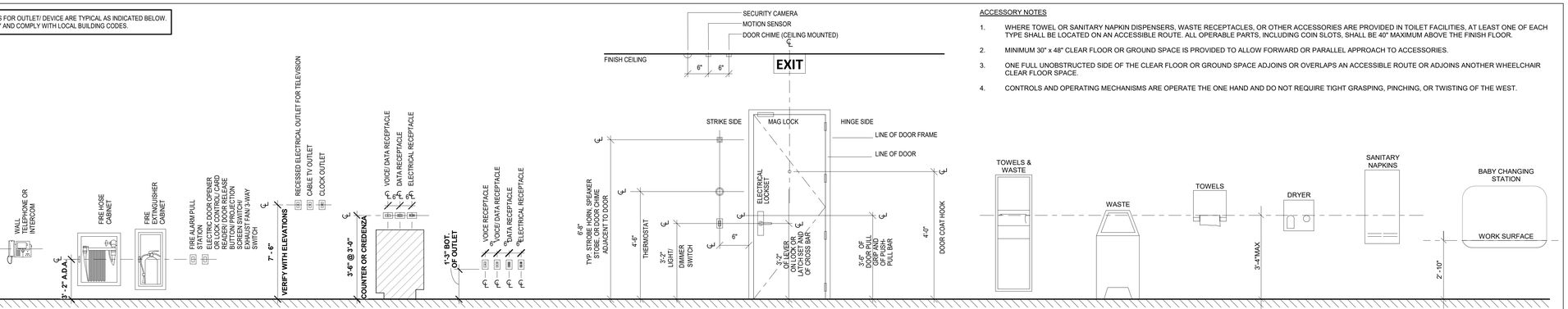


ACCESSIBLE SINGLE-USER RESTROOM



WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

ACCESSIBILITY CLEARANCE

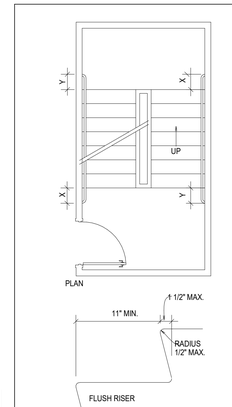


TYPICAL OUTLET/DEVICE MOUNTING HEIGHTS

TYPICAL RESTROOM ACCESSORY MOUNTING HEIGHTS

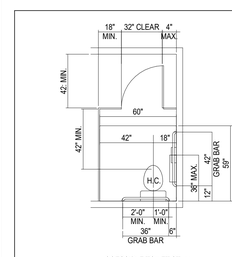
ACCESSORY NOTES

1. WHERE TOWEL OR SANITARY NAPKIN DISPENSERS, WASTE RECEPTACLES, OR OTHER ACCESSORIES ARE PROVIDED IN TOILET FACILITIES, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE. ALL OPERABLE PARTS, INCLUDING COIN SLOTS, SHALL BE 40" MAXIMUM ABOVE THE FINISH FLOOR.
2. MINIMUM 30" x 48" CLEAR FLOOR OR GROUND SPACE IS PROVIDED TO ALLOW FORWARD OR PARALLEL APPROACH TO ACCESSORIES.
3. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE ADJOINS OR OVERLAPS AN ACCESSIBLE ROUTE OR ADJOINS ANOTHER WHEELCHAIR CLEAR FLOOR SPACE.
4. CONTROLS AND OPERATING MECHANISMS ARE OPERATE THE ONE HAND AND DO NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WEST.



NOTE:
X IS THE 12 IN. MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER. Y IS THE MINIMUM HANDRAIL EXTENSION OF 12 IN. REQUIRED AT EACH BOTTOM RISER.

ACCESSIBLE STAIRS



ACCESSIBLE TOILET STALL
FLOOR MOUNTED TOILETS

ACCESSIBLE TOILET STALL

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ARLINGTON HEIGHTS, IL
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J. MALLEK

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QUALITY CONTROL
J. MALLEK

DRAWN BY
M. BYRNE

PROJECT NAME

GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
20241247.0

SHEET TITLE

ACCESSIBILITY INFORMATION (2017 ANSI)

SHEET NUMBER

G5-11

Last Modified: 3/4/2025 11:37:51 AM Drawing Name: C:\Users\dsdopp\Documents\520 Central Point, OR- Archi- R22_dsdopp@greenbergfarrow.com.rvt

STRUCTURAL NOTES
GROCERY OUTLET TENANT IMPROVEMENTS - CENTRAL POINT, OR
VLMK JOB #20240750

DIVISION 1 - GENERAL

A. GENERAL
1. THESE DRAWINGS HAVE BEEN PREPARED SOLELY FOR USE IN THE CONSTRUCTION OF:
   A. GROCERY OUTLET TENANT IMPROVEMENTS
   B. 4951 BIDDLE RD CENTRAL POINT, OR 97502
   C. POSSESSION OF THESE DRAWINGS DOES NOT GRANT A LICENSE TO CONSTRUCT OR FABRICATE THE WHOLE, OR PARTS OF THIS PROJECT IN OTHER LOCATIONS.

2. THESE NOTES SET MINIMUM STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER THE GENERAL NOTES TO THE EXTENT SHOWN.

3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS AND IN FIELD. COORDINATE LOCATIONS OF OPENINGS THROUGH FLOORS, ROOFS AND WALLS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. NOTIFY VLMK ENGINEERING + DESIGN (VLMK) OF ANY DISCREPANCIES OR IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN OR NOTED.

4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY BRACING, SHORING, ANCHORS, ETC., INCLUDING, BUT NOT LIMITED TO, WALL AND ROOF BRACING, LIFTING AND HANDLING INSERTS AND DEVICES, TRENCH SHORING, FORMS, ETC.

5. CONTRACTOR SHALL CONSIDER CONSTRUCTION LOADS WHENEVER SUCH LOADS ARE IN EXCESS OF NORMAL DESIGN LOADS. PARTICULAR ATTENTION SHOULD BE GIVEN TO CRANES, FORKLIFTS, WORKMAN, WHEEL LOADS, STORAGE OF MATERIALS, ETC. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SHORING, BRACING, CRIBBING, ETC. REQUIRED TO SUPPORT CONSTRUCTION LOADS.

6. INSPECTION AND/OR JOB SUPERVISION IS NOT PROVIDED BY VLMK.

7. WHERE REFERENCE IS MADE TO ASTM, AISC, ACI, ASCE OR OTHER STANDARDS, THE LATEST ISSUE SHALL APPLY.

8. ALL WORK SHALL BE IN STRICT COMPLIANCE WITH:
   A. 2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC) BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)

9. DESIGN CRITERIA:
   a. FLOOR LIVE LOADS (PER IBC 1603.1.1)

2ND FLOOR EQUIPMENT PLATFORM		100 PSF
b. ROOF LIVE LOADS (PER IBC 1603.1.2) MINIMUM (REDUCIBLE)		20 PSF
c. ROOF SNOW LOAD (PER IBC 1603.1.3)		
FLAT-ROOF SNOW LOAD	(Pf)	25 PSF
SNOW DRIFT SURCHARGE AND WIDTH	(Pd, W)	SEE DWGS
SNOW EXPOSURE FACTOR	(Ce)	1.0
SNOW LOAD IMPORTANCE FACTOR	(Is)	1.0
THERMAL FACTOR	(Ct)	1.0
d. WIND LOAD (PER IBC 1603.1.4)		
ULTIMATE DESIGN WIND SPEED	(Vult)	95 MPH
NOMINAL DESIGN WIND SPEED	(Vasd)	74 MPH
RISK CATEGORY		II
WIND EXPOSURE		C
INTERNAL PRESSURE COEFFICIENT	(GCpi)	±0.18
e. EARTHQUAKE DESIGN DATA (PER IBC 1603.1.5)		
SEISMIC IMPORTANCE FACTOR	(Ie)	1.0
RISK CATEGORY		II
MAPPED SPECTRAL RESPONSE ACCELERATIONS	Ss = 0.631	S1 = 0.364
SITE CLASS		D (DEFAULT)
DESIGN SPECTRAL RESPONSE COEFFICIENTS	Sds = 0.545	Sd1 = 0.470
SEISMIC DESIGN CATEGORY		D

10. MECHANICAL EQUIPMENT, MECHANICAL AND SPRINKLER PIPING LARGER THAN 2 INCHES IN DIAMETER OR ANY OTHER ITEMS PRODUCING A HANGER OR SUPPORT LOAD OF OVER 50 POUNDS SHALL BE HUNG BY A SYSTEM APPROVED BY VLMK. ANY HANGER OR SUPPORT PRODUCING A LOAD OVER 200 POUNDS SHALL HAVE ADDITIONAL FRAMING INSTALLED TO TRANSFER THESE LOADS TO THE MAIN STRUCTURAL BEAMS OR WALL UNLESS OTHERWISE APPROVED.

11. WHERE REQUIRED, SEISMIC BRACING FOR MECHANICAL AND ELECTRICAL EQUIPMENT, SPRINKLER PIPING OR OTHER NON-STRUCTURAL COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7. STRUCTURAL CALCULATIONS AND DETAILS STAMPED BY A LICENSED ENGINEER SHALL BE SUBMITTED TO VLMK FOR REVIEW.

12. PROVIDE SHOP DRAWINGS FOR ALL STRUCTURAL PRODUCTS DELIVERED TO THE PROJECT. VLMK WILL REVIEW AND MARK-UP ELECTRONIC SUBMITTALS IN PDF FORMAT OR A MAXIMUM OF THREE HARD COPIES OF SUBMITTALS. THE CONTRACTOR WILL BE RESPONSIBLE FOR DUPLICATING MARK-UPS IF ADDITIONAL COPIES ARE REQUIRED. SUBMITTALS WILL BE REVIEWED AND RETURNED TO THE GENERAL CONTRACTOR WITHIN TWO WEEKS. ALL SUBMITTALS SHALL BE REVIEWED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ENGINEER. UNLESS OTHERWISE INDICATED, SHOP DRAWINGS SHALL BE PROVIDED ON THE FOLLOWING:
   a. STRUCTURAL STEEL AND MISCELLANEOUS STEEL.
   b. CONCRETE MIX DESIGNS.
   c. ALL REINFORCING STEEL.

DIVISION 2 - SITE WORK (NOT USED)

DIVISION 3 - CONCRETE AND REINFORCING

A. CONCRETE MIX/MATERIAL
1. STRENGTH: AVERAGE 28 DAY CONCRETE STRENGTH DETERMINED BY JOB CAST LAB CURED CYLINDER TO BE AS INDICATED BELOW PLUS INCREASE DEPENDING ON THE PLANT'S STANDARD DEVIATION AS SPECIFIED IN ACI 318. PROVIDE MIX DESIGNS TO THE ENGINEER FOR ALL CONCRETE TO BE USED. CLEARLY LABEL ALL MIX DESIGNS FOR PROPOSED AREA OF USE.

2. MINIMUM MIX REQUIREMENTS:

LOCATION	MIN. COMP. STRENGTH	SLUMP (a)	MIN. CEMENT CONTENT	ADMIXTURES
INTERIOR SLAB ON GRADE	3,500 PSI	2"-4"	517 LB	(b), (e)
INTERIOR SLAB ON GRADE (ALTERNATE FOR PUMPABLE MIX)	3,500 PSI	4"-6"	517 LB	(b), (e)
MISCELLANEOUS	3,000 PSI	0"-5"	470 LB	(b)

(a) - SLUMP EXCEEDING SPECIFIED LIMITS SHALL NOT BE INCORPORATED IN THE PROJECT EXCEPT BY WRITTEN APPROVAL FROM ENGINEER.
(b) - WRA = WATER REDUCING AGENT. REQUIRED FOR PUMPABLE HIGHER SLUMP MIX.
(c) - AE = AIR ENTRAINMENT.
(d) - UP TO 1 1/2 PERCENT CALCIUM CHLORIDE ALLOWED DURING COLD WEATHER.
(e) - POZZUTEC 20 REQUIRED FOR CONCRETE PLACED BELOW 40 DEGREES FAHRENHEIT.

3. USE TYPE I CEMENT, PER ASTM C-150 UNLESS OTHERWISE APPROVED.

4. AGGREGATES PER ASTM C33. USE 3/4 INCH MINUS UNLESS OTHERWISE NOTED OR APPROVED.

5. WATER REDUCING AGENT (WRA) SHALL BE POLYHEED 900 OR DURACEM 55 (MINIMUM 6 OZ. PER 100 POUNDS CEMENT). COMPLY WITH ASTM C-494.

6. AIR ENTRAINMENT (AE) SHALL COMPLY WITH ASTM C-260 AND SHALL BE USED ONLY WHERE SPECIFIED AND/OR APPROVED BY ENGINEER.

7. ACCELERATORS: POZZUTEC 20+ NON-CHLORIDE FOR COMPONENTS EXPOSED TO WEATHER IN THE COMPLETED STRUCTURE (WALLS, EXTERIOR PAVING, ETC.), CALCIUM CHLORIDE IN THE INTERIOR SLABS ON GRADE. QUANTITY (DOSAGE) TO BE DETERMINED BY CONTRACTOR AND APPROVAL OBTAINED FROM ENGINEER BEFORE USE OF ACCELERATORS.

8. PLACE AND CURE ALL CONCRETE PER ACI CODES AND STANDARDS.

9. PROVIDE CONTROL JOINTS IN ALL INTERIOR SLABS ON GRADE AT 25'-0" ON CENTER EACH WAY MAXIMUM UNLESS OTHERWISE SHOWN ON PLANS.

10. SLEEVES, PIPES OR CONDUITS OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED.

B. REINFORCING
1. ALL REINFORCING TO BE ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED.

2. USE ONLY A706 WELDABLE REBAR IF REBAR IS TO BE WELDED. USE ONLY LOW HYDROGEN ELECTRODES. ALL WELDING TO BE IN COMPLIANCE WITH AWS D1.4.

3. FABRICATE AND INSTALL REINFORCING STEEL ACCORDING TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES - ACI STANDARD 315.

4. EXTEND REINFORCING TO WITHIN 1 INCH OF SLAB EDGES.

DIVISION 4 - MASONRY (NOT USED)

DIVISION 5 - METAL

A. GENERAL
1. ALL STRUCTURAL MEMBERS TO BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF AISC STANDARDS.

B. MATERIALS
1. ALL STEEL PLATE, ANGLES, CHANNELS, ETC. TO BE ASTM A36 TYPICAL UNLESS OTHERWISE NOTED.

2. UNLESS OTHERWISE NOTED, BOLTS TO BE A325N FOR STEEL TO STEEL CONNECTIONS.

3. ANCHOR BOLTS AND WOOD CONNECTIONS TO BE A307. PROVIDE STANDARD PLATE WASHERS UNDER ALL BOLT HEADS AND NUTS IN CONTACT WITH WOOD.

4. ANCHOR RODS TO BE ASTM F1554, GRADE 36 UNLESS OTHERWISE NOTED.

5. LAG BOLTS IN WOOD TO BE SAE J429 GRADE 1 WITH MINIMUM DIMENSIONS MEETING ANSI/ASME B.18.2.1.

6. LIGHT GAUGE STEEL 16 GAUGE AND HEAVIER SHALL BE FORMED FROM STEEL OF ASTM A1003 ST50H WITH (Fy = 50 KSI). LIGHT GAUGE STEEL 18 GAUGE AND LIGHTER SHALL BE FORMED FROM ASTM A1003 ST33H WITH (Fy = 33 KSI). DETAIL AND FABRICATE LIGHT GAUGE STEEL PER AISI STANDARDS.

C. POST-INSTALLED ANCHOR BOLTS:
1. UNLESS A SPECIFIC ANCHOR PRODUCT IS NOTED IN THE DRAWINGS, POST-INSTALLED ANCHORS MAY USE ONE OF THE ANCHORS LISTED BELOW FOR THE REQUIRED TYPE AND BASE MATERIAL. OTHER ANCHORS ARE ACCEPTABLE ONLY WITH PRIOR WRITTEN APPROVAL OF THE ENGINEER.

2. INSTALL ALL ANCHORS PER MANUFACTURER'S INSTRUCTIONS AND PRODUCT EVALUATION REPORTS.

3. EMBEDMENT SPECIFIED ON DRAWINGS FOR ADHESIVE ANCHORS ARE 'EFFECTIVE' EMBEDMENT. 'NOMINAL' EMBEDMENT IS SPECIFIED FOR EXPANSION AND SCREW ANCHORS, UNLESS OTHERWISE NOTED. REFERENCE MANUFACTURER LITERATURE FOR MEASURING TOTAL EMBEDMENT AND HOLE DEPTH REQUIREMENTS.

4. NOTE THAT ADHESIVE ANCHOR INSTALLATION TEMPERATURES AND CURE TIMES VARY BY PRODUCT. CONSULT MANUFACTURER LITERATURE FOR SPECIFIC REQUIREMENTS.

5. ALL EXPANSION AND SCREW ANCHORS SPECIFIED AT EXTERIOR LOCATIONS OR EXPOSED TO THE ELEMENTS SHALL BE THE STAINLESS STEEL VERSION PER EACH APPROVED MANUFACTURER. EPOXY ANCHORS SPECIFIED AT EXTERIOR LOCATIONS OR EXPOSED TO THE ELEMENTS SHALL USE STAINLESS STEEL OR HOT DIPPED GALVANIZED THREADED ROD.

6. SPECIAL INSPECTION OF ANCHOR INSTALLATION IS REQUIRED UNLESS SPECIFICALLY NOTED OTHERWISE IN DRAWINGS. SEE SPECIAL INSPECTION AND MATERIALS TESTING PROGRAM AND NOTES.

7. NO STEEL REINFORCEMENT SHALL BE CUT TO INSTALL ANCHORS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.

8. SCREW ANCHORS:

BASE MATERIAL	PRODUCT	REPORT#
CONCRETE	SIMPSON TITEN HD SCREW ANCHOR	ICC ESR-2713
CONCRETE	HILTI KWIK HUS-EZ SCREW ANCHOR	ICC ESR-3027

D. WELDING
1. ALL WELDS TO BE MADE BY CERTIFIED WELDERS TO AWS STANDARDS WITH E70XX ELECTRODES. CONTRACTOR SHALL PAY SPECIAL ATTENTION TO THE MEANS AND METHODS OF CONSTRUCTION THEY ANTICIPATE EMPLOYING ON THE PROJECT. SOME WELDS SHOWN AS SHOP WELDS MAY NEED TO BE FIELD WELDS TO AID ERECTION.

F. COLD-FORMED STEEL STRUCTURAL FRAMING
1. THE FOLLOWING NOTES APPLY TO THE METAL STUD FRAMING SHOWN IN THE STRUCTURAL DRAWINGS ONLY. SEE ARCHITECTURAL DRAWINGS FOR ALL NON-LOAD BEARING INTERIOR METAL STUD FRAMING NOT SHOWN IN THE STRUCTURAL DRAWINGS.

2. FRAMING MEMBERS SHALL BE AS SPECIFIED BY THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) ICC REPORT (ESR-3064P) AND OF THE SIZE, GAUGE AND SPACING AS SHOWN ON THE DRAWINGS.

3. 18 GAUGE AND LIGHTER STEEL SHALL BE FORMED FROM ASTM A1003 ST33H (Fy = 33 KSI). 16 GAUGE AND HEAVIER STEEL SHALL BE FORMED FROM ASTM A1003 ST50H (Fy = 50 KSI). FABRICATE LIGHT GAUGE STEEL PER AISI STANDARDS.

4. FRAMING SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653, G60 MINIMUM.

5. INSTALL FRAMING IN ACCORDANCE WITH ASTM C1007.

6. SPLICES IN FRAMING MEMBERS NOT SPECIFICALLY DETAILED IN THE DRAWINGS ARE NOT ALLOWED WITH THE EXCEPTION OF TOP AND BOTTOM WALL TRACKS. REFER TO DETAILS FOR SPLICE REQUIREMENTS OF WALL TRACKS.

7. ALL FIELD CUTTING OF FRAMING SHALL BE DONE BY SAWING, SHEARING, OR PLASMA CUTTING.

8. WALL STUDS SHALL HAVE SQUARE END CUTS AND BE SEATED TIGHT AGAINST TOP AND BOTTOM TRACKS WITH A MAXIMUM GAP TOLERANCE OF 1/16" BETWEEN STUD AND TRACK.

9. UNLESS OTHERWISE NOTED, TRACK FRAMING SHALL MATCH STUD/JOIST SIZE AND GAUGE. ATTACH TO STUD AND JOIST FRAMING WITH (1) SCREW AT EACH FLANGE.

10. NOTCHING OR COPING OF FRAMING (INCLUDING WIDENING OF PRE-PUNCHED HOLES) IS NOT ALLOWED UNLESS OTHERWISE NOTED IN DRAWINGS OR APPROVED BY THE ENGINEER OF RECORD.

11. OPENINGS IN STUD WEBS, OTHER THAN PRE-PUNCHED HOLES BY THE MANUFACTURER, ARE NOT ALLOWED UNLESS OTHERWISE NOTED IN DRAWINGS. PRE-PUNCHED HOLES SHOULD BE LOCATED AWAY FROM CONNECTIONS.

12. DOUBLE-FLAT STRAP BRACING OR CHANNEL BRIDGING SHALL BE INSTALLED PER THE DRAWINGS. INSTALL PRIOR TO LOADING STUDS AND WITH WALL ADEQUATELY BRACED. CONTRACTOR TO ENSURE PRE-PUNCHED HOLE ALIGNMENT IF CHANNEL BRIDGING IS TO BE USED.

13. CONNECTIONS:
   a. WELDING IS ACCEPTABLE WHERE INDICATED ON THE DRAWINGS AND SHALL CONFORM WITH AWS D1.3. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.
   b. UNLESS OTHERWISE NOTED IN DRAWINGS, USE #12 SCREWS (16 GAUGE AND HEAVIER), #10 SCREWS (18 AND 20 GAUGE) AND #8 SCREWS (22 GAUGE) TO CONNECT COLD-FORMED STEEL FRAMING. SCREWS TO BE SELF TAPPING AND DRILLING FROM ONE OF THE FOLLOWING:

STEEL STUD FASTENERS	REPORT#
HILTI KWIK-PRO SELF-DRILLING SCREWS	ICC ESR-2196
ITW BUILDEX TEKS SELF-DRILLING SCREWS	ICC ESR-1976

   c. PLACE SCREWS WITH MINIMUM SPACING AND EDGE DISTANCE OF 3 SCREW DIAMETERS, UNLESS OTHERWISE NOTED ON DRAWINGS. PROVIDE MINIMUM LENGTH FOR SCREW TO PENETRATE BEYOND FASTENED MEMBERS BY AT LEAST TWO FULL DIAMETER THREADS.
   d. BOLTS TO BE PLACED IN PRE-DRILLED HOLES IN COMPLIANCE WITH AISI NORTH AMERICAN SPECIFICATION, SECTION E3A. STANDARD HOLE SIZES SHOULD NOT EXCEED THE BOLT DIAMETER + 1/32" FOR BOLTS LESS THAN 1/2" DIAMETER, OR BOLT DIAMETER + 1/16" FOR BOLTS 1/2" DIAMETER AND GREATER. OVERSIZED OR SLOTTED HOLES SHOULD NOT BE USED UNLESS SPECIFICALLY NOTED ON DRAWINGS.
   e. POWER ACTUATED FASTENERS (PAFs) TO BE USED TO CONNECT COLD FORMED STEEL FRAMING TO CONCRETE OR STEEL TO BE ONE OF THE FOLLOWING:

POWER ACTUATED FASTENER (PAF)	REPORT#
HILTI X-U UNIVERSAL KNURLED SHANK FASTENERS (0.157" DIA)	ICC ESR-2269
DEWALT / POWERS 0.300 HEAD DRIVE PINS (0.145" DIA)	ICC ESR-2024

   f. WHEN CONNECTING TO STEEL, PAFs SHALL HAVE A MINIMUM EDGE DISTANCE OF 1/2" AND A MINIMUM SPACING OF 1" O.C. LENGTH OF PAF SHALL BE SUCH THAT THE POINT PENETRATES THROUGH THE STEEL BASE MATERIAL WHEN CONNECTING TO STEEL LESS THAN 3/4" THICK. LENGTH OF PAF SHALL PROVIDE 1/2" MINIMUM POINT PENETRATION WHEN CONNECTING TO STEEL 3/4" THICK OR GREATER.
   g. WHEN CONNECTING TO CONCRETE, PAFs SHALL HAVE A MINIMUM EDGE DISTANCE OF 3" AND A MINIMUM SPACING OF 4" O.C. USE 1" EMBEDMENT UNLESS OTHERWISE NOTED. DO NOT INSTALL UNTIL THE CONCRETE HAS REACHED ITS DESIGNATED STRENGTH.

G. HOT-DIP GALVANIZING
1. HOT-DIP GALVANIZING SHALL BE PROVIDED WHERE INDICATED IN THE DRAWINGS IN ACCORDANCE WITH THE FOLLOWING:
   a. GALVANIZE STEEL MEMBERS, FABRICATIONS, AND ASSEMBLIES AFTER FABRICATION BY THE HOT DIP PROCESS IN ACCORDANCE WITH ASTM A123.
   b. GALVANIZE BOLTS, NUTS, WASHERS AND IRON AND STEEL HARDWARE COMPONENTS IN ACCORDANCE WITH ASTM A153.
   c. SAFEGUARD PRODUCTS AGAINST STEEL EMBRITTLEMENT IN CONFORMANCE WITH ASTM A143.
   d. GALVANIZE REINFORCING STEEL IN ACCORDANCE WITH ASTM A767.
   e. WHERE GALVANIZED STEEL WILL HAVE ADDITIONAL COATINGS, PREPARE SURFACE FOR PAINTING IN ACCORDANCE WITH ASTM D6386 OR POWDER COATING IN ACCORDANCE WITH ASTM D7803.
   f. REPAIR AREAS DAMAGED BY WELDING, FLAME CUTTING OR DURING HANDLING, TRANSPORT OR ERECTION BY ONE OF THE APPROVED METHODS IN ACCORDANCE WITH ASTM A780 WHENEVER DAMAGE EXCEED 3/16 INCH IN WIDTH. MINIMUM THICKNESS REQUIREMENTS FOR THE REPAIR ARE DESCRIBED IN ASTM A123.
   g. AIR HOLES REQUIRED BY THE GALVANIZING PROCESS ARE TO BE INDICATED ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION AND GALVANIZING. WHERE AIR HOLES ARE EXPOSED TO WEATHER OR VIEW, THEY ARE TO BE FILLED AND GROUND SMOOTH FOLLOWING THE GALVANIZING PROCESS FOR WATER-TIGHTNESS AND VISUAL APPEARANCE.

DIVISION 6 - WOOD

A. ROUGH CARPENTRY
1. LUMBER SPECIES AND GRADES TO BE AS FOLLOWS UNLESS OTHERWISE SHOWN ON DRAWINGS:

6 INCH NOMINAL AND GREATER:	DOUGLAS FIR #1
BUCKS, BLOCKING, BRIDGING AND MISCELLANEOUS:	DOUGLAS FIR OR HEM FIR #3
SILLS, LEDGERS, STRIPPING, ETC. IN CONTACT WITH CONCRETE, AND WOOD CURBS:	PRESSURE TREATED HEM FIR #2

ROOF, FLOOR AND WALL SHEATHING:
APA RATED SHEATHING, EXPOSURE 1, CONFORMING TO APA PERFORMANCE STANDARD PS 1-95 AND EXCERPT NER-108. SEE DRAWINGS FOR REQUIRED THICKNESS OF SHEATHING AND/OR SPAN RATING. INSTALL ROOF AND FLOOR SHEATHING WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS UNLESS OTHERWISE NOTED. USE SPACERS TO PROVIDE 1/8 INCH END AND EDGE JOINTS (1/4 INCH FOR JUMBO PANELS) WHENEVER SHEATHING IS EXPOSED TO WET WEATHER. FILL ANY JOINT SPACING OVER 3/8 INCH UNLESS OTHERWISE APPROVED BY ENGINEER. INSTALL 2x4 OR THICKER BLOCKING AT UNSUPPORTED JOINTS IN WALL SHEATHING. BLOCK ROOF AND FLOOR SHEATHING WHERE NOTED ON DRAWINGS.

2. PROVIDE FIRE BLOCKING AS REQUIRED AND BLOCKING FOR ALL SPECIFIED WALL-MOUNTED ITEMS INCLUDING CABINETS, DOORSTOPS, ETC.

3. CONNECTORS:
   a. TIE STRAPS, FRAMING ANCHORS, HANGERS, STIRRUPS, COLUMN CAPS, COLUMN BASES, ETC., TO BE SIMPSON AS DETAILED, OR AS APPROVED.
   b. FULLY FASTEN ACCORDING TO MANUFACTURER'S SCHEDULE USING LARGEST SIZE SHOWN.
   c. ALL BEAMS AND JOISTS NOT BEARING ON ANOTHER MEMBER TO CONNECT WITH 'U' TYPE HANGERS UNLESS OTHERWISE NOTED ON DRAWINGS.
   d. NAILING: ALL NAILS SPECIFIED IN THE DRAWINGS TO BE "COMMON" NAILS UNLESS OTHERWISE NOTED. ALL NAILING SHALL COMPLY WITH IBC FASTENING SCHEDULE PER CHAPTER 23. OBTAIN ENGINEERS APPROVAL OF ALL PROPRIETARY NAILING SYSTEMS.
   e. NAILS AT ROOF, FLOOR, AND WALL DIAPHRAGMS TO BE DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING. CHECK AND RESINK IF NEEDED, IMMEDIATELY BEFORE ROOFING.
   f. BOLTS - SEE DIVISION 5, METAL.
   g. CORROSION PROTECTION:
      1. CONFIRM REQUIRED CORROSION PROTECTION FOR HARDWARE AND FASTENERS WITH SPECIFIC RECOMMENDATIONS FROM PRESSURE TREATING MANUFACTURER OR HANGER MANUFACTURER (USE MOST CONSERVATIVE) FOR SPECIFIC WOOD TREATMENTS USED.
      2. MINIMUM CORROSION PROTECTION ON METAL CONNECTORS EXPOSED TO THE ENVIRONMENT OR PRESSURE TREATED LUMBER TO BE PER ASTM A653 CLASS 185 (SIMPSON ZMAX) OR ASTM A123.
      3. FASTENERS FOR PRESSURE TREATED LUMBER MUST BE MINIMUM HOT-DIP GALVANIZED, STAINLESS STEEL, SILICON BRONZE OR COPPER.
      4. HOT-DIP GALVANIZED HARDWARE AND FASTENERS MUST COMPLY WITH ASTM A153, STAINLESS STEEL FASTENERS TO BE TYPE 304 OR TYPE 316.
      5. HARDWARE AND FASTENERS USED TOGETHER MUST BE THE SAME TYPE (E.G. HOT-DIP GALVANIZED NAILS WITH HOT-DIP GALVANIZED HANGERS).

4. DELIVERY AND STORAGE: ALL LUMBER AND SHEATHING DELIVERED TO THE SITE, SHALL BE STACKED OR STORED OFF THE GROUND AND PROPERLY PROTECTED AGAINST WEATHER.

CODE REQUIRED SPECIAL INSPECTION AND MATERIALS TESTING PROGRAM

CONCRETE:	COMMENTS	DURATION	INSPECTION AGENCY
VERIFY USE OF ENGINEER APPROVED CONCRETE MIX DESIGNS		P	TESTING LAB
PLACING OF REINFORCING FOR SLAB-ON-GRADE		P	TESTING LAB
PLACING OF CONCRETE FOR REINFORCED SLAB-ON-GRADE	SEE NOTE 6, ITEM A	C	TESTING LAB
POST-INSTALLED ADHESIVE ANCHORS, RODS AND DOWELS IN CONCRETE, PLACED DOWNWARDLY INCLINED	PER ICC EVALUATION REPORT SEE NOTE 6, ITEM B	P	TESTING LAB
POST-INSTALLED SCREW ANCHORS IN CONCRETE	PER ICC EVALUATION REPORT SEE NOTE 6, ITEM B	P	TESTING LAB
STRUCTURAL WELDING AND HIGH STRENGTH BOLTING:			
MATERIAL VERIFICATION OF STRUCTURAL STEEL, DECKING, NUTS AND WASHERS, ANCHOR RODS, AND WELD FILLER MATERIALS		P	TESTING LAB
SINGLE PASS FILLET WELDS 5/16" AND SMALLER		P	TESTING LAB
COLD-FORMED STRUCTURAL STEEL FRAMING:			
MATERIAL VERIFICATION, INCLUDING FASTENERS		P	TESTING LAB
FRAMING MEMBER SIZES, THICKNESS AND SPACING		P	TESTING LAB
SHEARWALL SHEATHING, FASTENER SPACING AND HOLDOWNS		P	TESTING LAB
APPROVED FABRICATORS:			
CERTIFICATE OF COMPLIANCE MUST BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD FOR ALL OFF-SITE FABRICATION SUCH AS STRUCTURAL STEEL		P	TESTING LAB

SPECIAL INSPECTION PROGRAM NOTES:

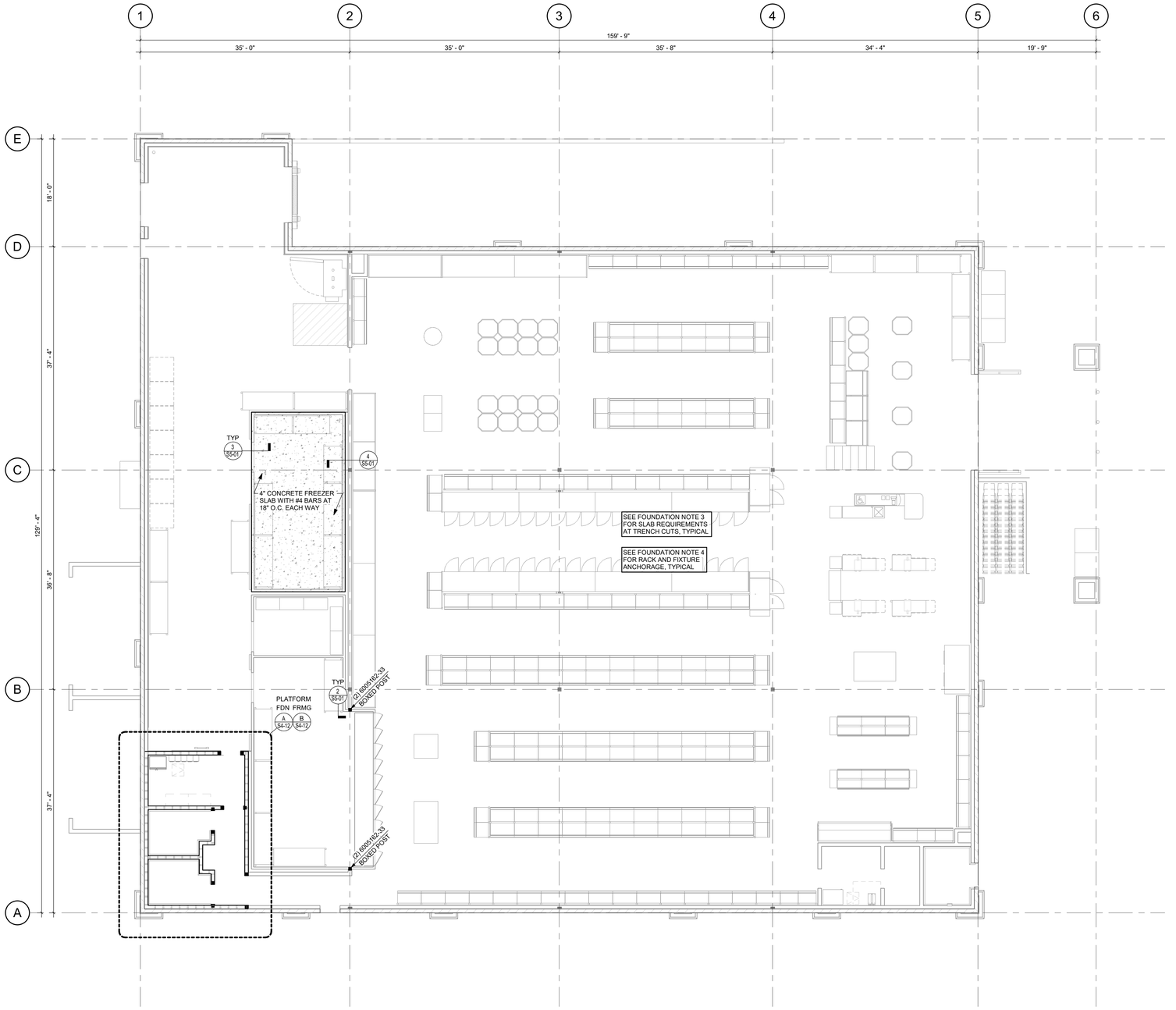
1. DURATION REFERS TO TIME AND FREQUENCY OF INSPECTION FOR THE PORTIONS OF WORK INDICATED.
   C = CONTINUOUS INSPECTION IN WHICH THE SPECIAL INSPECTOR IS ON SITE AT ALL TIMES, OBSERVING THE WORK REQUIRING SPECIAL INSPECTION.
   P = PERIODIC INSPECTION IN WHICH THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE WITH APPROVED PERMIT DRAWINGS AND SPECIFICATIONS.

2. THE INSPECTION AGENCIES ARE AS FOLLOWS:
   TESTING LAB: TO BE DETERMINED
   TESTING LAB SHALL PERFORM INSPECTIONS OF ALL PORTIONS OF WORK DESIGNATED IN THE PROGRAM. THE SELECTED INSPECTION AGENCY SHALL BE AN ACCREDITED, APPROVED SPECIAL INSPECTION AGENCY EMPLOYED BY THE OWNER OR OWNER'S AGENT, NOT THE CONTRACTOR OR SUB CONTRACTOR, PER I.B.C. SECTION 1704.1. THE SPECIAL INSPECTORS DUTIES REGARDING THE PORTIONS OF WORK ARE DESCRIBED IN CHAPTER 17 OF THE I.B.C. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

3. DUTIES OF THE SPECIAL INSPECTOR TO INCLUDE, BUT ARE NOT LIMITED TO:
   A. ACKNOWLEDGE THE SPECIAL INSPECTION PROGRAM AND THE SPECIAL INSPECTION AND TESTING AGREEMENT, PROVIDED BY THE LOCAL JURISDICTION.
   B. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER AND TO THE BUILDING OFFICIAL.
   C. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, ENGINEER, CONTRACTOR, AND (OTHER DESIGNATED PARTIES), IN A TIMELY MANNER, AS ESTABLISHED AT THE PRE-CONSTRUCTION MEETING.
   D. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED, AND WHETHER THE WORK IS IN GENERAL CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.

4. DUTIES OF THE CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:
   A. NOTIFY THE SPECIAL INSPECTOR THAT THE WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE SUCH INSPECTION.
   B. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.
   C. PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PERMIT DRAWINGS AND SPECIFICATIONS AT THE JOB SITE.
   D. MAINTAIN AT THE JOB SITE, COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.

5. IN ADDITION TO THE INSPECTION AND TESTING REQUIREMENTS INDICATED IN THE I.B.C., THE FOLLOWING SHALL ALSO APPLY:
   A. CONCRETE INSPECTION AND TESTING REQUIREMENTS ARE AS FOLLOWS:
      1. CONTINUOUS OBSERVATION OF SLAB ON GRADE CONCRETE PLACEMENT IS REQUIRED.
      2. OBTAIN (4) TEST CYLINDERS FOR EACH 100 CUBIC YARDS PLACED (OR PORTION THEREOF IF LESS THAN 100 CUBIC YARDS ARE PLACED). BREAK (1) CYLINDER AT 7 DAYS AND (2) CYLINDERS AT 28 DAYS. (IF THE FIRST 28 DAY CYLINDER BREAK IS LESS THAN REQUIRED STRENGTH, HOLD (2) CYLINDERS FOR 56 DAY BREAK) HOLD 4TH CYLINDER FOR 56 DAY BREAK. BREAK 4TH CYLINDER ONLY IF REQUIRED STRENGTH IS NOT MET WITH (2) CYLINDERS AT 28 DAYS
      3. VERIFY THAT THE APPROVED MIX DESIGNS ARE BEING DELIVERED TO THE SITE. BATCH TICKETS SHOULD BE CHECKED FOR ALL TRUCKS ENTERING THE SITE.
   B. POST INSTALLED ANCHORS IN CONCRETE AND MASONRY SHALL BE INSPECTED AS FOLLOWS:
      1. PROVIDE 'CONTINUOUS' OR 'PERIODIC' INSPECTION AS INDICATED IN THE SPECIAL INSPECTION TABLE (THIS SHEET). INSPECTIONS ARE TO BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCT EVALUATION REPORT AND INSTALLATION INSTRUCTIONS.
      2. A COPY OF THE EVALUATION REPORT AND INSTALLATION INSTRUCTIONS ARE TO BE MAINTAINED ON THE JOB SITE. ICC EVALUATION REPORTS ARE AVAILABLE ONLINE AT WWW.ICC-ES.ORG, AND IAPMO EVALUATIONS REPORTS ARE AVAILABLE AT WWW.IAPMOES.ORG.
      3. WHERE PERIODIC INSPECTION IS ALLOWED:
         - THE SPECIAL INSPECTOR MUST BE ON SITE INITIALLY DURING ANCHOR INSTALLATION TO VERIFY MATERIALS AND PROCEDURES AS REQUIRED BY THE EVALUATION REPORT.
         - SUBSEQUENT INSTALLATIONS OF THE SAME ANCHOR TYPE AND SIZE BY THE SAME CONSTRUCTION PERSONNEL ARE PERMITTED TO BE PERIODICALLY INSPECTED.
         - A NEW INITIAL INSPECTION SHALL BE MADE FOR ANY CHANGE IN PERSONNEL PERFORMING THE AN



A S1-01 FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION LEGEND:

- (E) 8" CMU WALL
- NON-STRUCTURAL WALL
- (N) COLUMN PER PLAN
- (E) TS COLUMN

FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
2. CONTRACTOR TO VERIFY EXISTING FRAMING WITH CONDITIONS SHOWN OR NOTED PRIOR TO BEGINNING WORK. NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. REPLACEMENT SLABS TO MATCH EXISTING SLAB THICKNESS (4" MINIMUM) WITH #4 BARS AT 18" O.C. EACH WAY, TYPICAL UNLESS OTHERWISE NOTED ON PLAN. DOWEL NEW SLABS INTO EXISTING PER DETAIL 1/S5-01.

   PROVIDE CONTROL JOINTS IN REPLACEMENT SLAB PER DETAIL 1/S5-01. ALIGN NEW CONTROL JOINTS WITH EXISTING.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF PALLET SHELVING, GONDOLA SHELVING, WALL SHELVING, AND REFRIGERATED CASES. PROVIDE ANCHORAGE PER DETAILS 1/S6-01, 2/S6-01, 3/S6-01, AND 4/S6-01, RESPECTIVELY

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 75466PE Justin Elliott OREGON JUNE 18, 2014 JUSTIN JAMES ELLIOTT

EXP. 12/31/2025

PROFESSIONAL IN CHARGE
JJE
PROJECT MANAGER
ERO
QUALITY CONTROL
ERO
DRAWN BY
AEO

PROJECT NAME

GROCERY OUTLET

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
20240750

SHEET TITLE

FOUNDATION PLAN

SHEET NUMBER

S1-01

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ROOF FRAMING PLAN

A S1-11

1/8" = 1'-0"

ROOF FRAMING LEGEND:

- (E) 8" CMU WALL
- NON-STRUCTURAL WALL
- (N) COLUMN PER FOUNDATION PLAN
- (E) TS COLUMN
- STRUCTURAL WALL BELOW

ROOF FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
2. CONTRACTOR TO VERIFY EXISTING FRAMING WITH CONDITIONS SHOWN OR NOTED PRIOR TO BEGINNING WORK. NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. CONTRACTOR TO RELOCATE EXISTING FIRE SPRINKLER LINES, UTILITY LINES, ETC. AS REQUIRED FOR INSTALLATION OF NEW STRUCTURAL BEAMS AND JOISTS.
4. CONTRACTOR TO VERIFY ALL MECHANICAL UNIT SIZES, LOCATIONS, AND WEIGHTS.
5. PROVIDE CRICKET ON HIGH SIDE FOR PROPER DRAINAGE AROUND MECHANICAL UNITS AND SLEEPERS. SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING REQUIREMENTS.
6. FOR NEW OPENINGS LESS THAN 24" x 24", PROVIDE L4x4x1/4 HEADER FRAMING AROUND PERIMETER, ATTACH SIMILAR TO DETAIL 5 S5-11

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
15468PE
OREGON
JUNE 18, 1997
JUSTIN JAMES ELLIOTT
Justin Elliott
EXP. 12/31/2025

PROFESSIONAL IN CHARGE
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PROJECT MANAGER
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QUALITY CONTROL
ERO
DRAWN BY
AEO/BMW

PROJECT NAME
GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20240750

SHEET TITLE
ROOF FRAMING PLAN

SHEET NUMBER
S1-11

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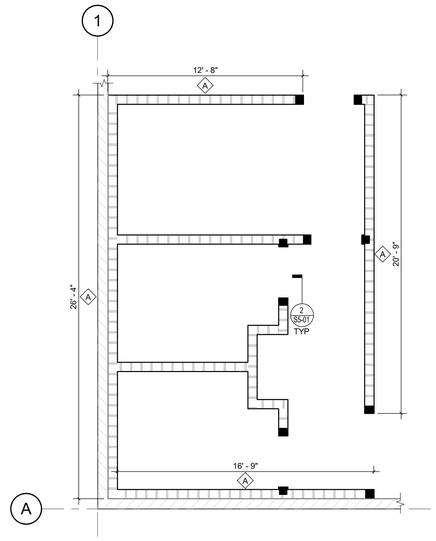
18 GAUGE METAL STUD SHEARWALL SCHEDULE-GYP

MARK	SHEATHING AND SCREWS	BOTTOM TRACK ANCHORAGE	18 GAUGE CAPACITY
A	1/2" GYP BOARD, ONE SIDE, ALL EDGES BLOCKED, WITH #8 SCREWS AT 8" O.C. ALL PANEL EDGES AND 12" O.C. IN-FIELD	SLAB: 3/8" DIA x 2 1/2" LONG SCREW ANCHORS AT 32" O.C.	92 PLF

18 GAUGE METAL STUD SHEARWALL SCHEDULE NOTES

1. INSTALL SHEATHING HORIZONTAL OR VERTICAL. NO PIECE SMALLER THAN 2' - 0" x 2' - 0". PROVIDE BLOCKING AT PANEL EDGES PER DETAIL 1/S4-12
2. ALL INTERIOR WALLS WITHOUT A SCHEDULE SHEAR ASSEMBLY TO BE SHEATHED PER ARCHITECTURAL DRAWINGS.
3. ALL SHEARWALL SCREWS TO BE FLAT-HEAD SELF-DRILLING TAPPING SCREWS. #8 SCREWS TO HAVE A MINIMUM HEAD DIAMETER OF 0.285".
4. FASTENERS ALONG THE EDGES IN SHEAR PANELS SHALL BE PLACED NOT LESS THAN 3/8" IN FROM PANEL EDGES.
5. WHERE HORIZONTAL STRAP BLOCKING IS USED TO PROVIDE EDGE BLOCKING, IT SHALL BE A MINIMUM OF 1 1/2" WIDE AND OF THE SAME MATERIAL AND EQUAL OR GREATER THAN THE THICKNESS AS THE TRACK AND STUDS.
6. SEE PLAN FOR STUD AND TRACK INFORMATION.



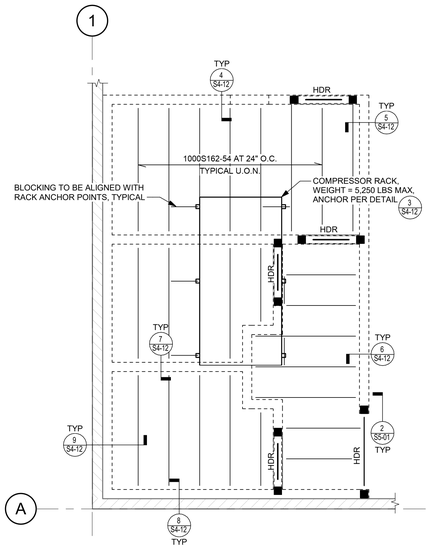
A S4-12 ENLARGED PLATFORM FOUNDATION PLAN
1/4" = 1'-0"

PLATFORM FOUNDATION LEGEND:

- (E) CMU WALL
- (N) 600S162-33 STUDS AT 24" O.C.
- (N) (2) 6005162-33 BOXED POST, TYPICAL U.O.N.
- X SHEARWALL PER SHEARWALL SCHEDULE THIS SHEET

PLATFORM FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
2. CONTRACTOR TO VERIFY EXISTING FRAMING WITH CONDITIONS SHOWN OR NOTED PRIOR TO BEGINNING WORK. NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. BOTTOM TRACK DEPTH AND GAGE TO MATCH STUD, FOR BOTTOM TRACK ATTACHMENT AT SHEAR WALLS, SEE SHEAR WALL SCHEDULE ON THIS SHEET. AT NON-SHEAR WALLS, MINIMUM BOTTOM TRACK ATTACHMENT TO BE 0.157" DIA PAFs AT 12" O.C. STAGGERED.



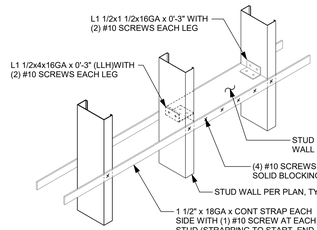
B S4-12 ENLARGED PLATFORM FOUNDATION PLAN
1/4" = 1'-0"

PLATFORM FRAMING LEGEND:

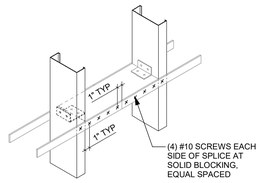
- (E) CMU WALL
- STRUCTURAL WALL BELOW
- NON STRUCTURAL WALL
- (N) CFS POST BELOW PER FOUNDATION PLAN
- HDR (N) BUILT-UP CFS HEADER PER FRAMING NOTES

PLATFORM FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
2. CONTRACTOR TO VERIFY EXISTING FRAMING WITH CONDITIONS SHOWN OR NOTED PRIOR TO BEGINNING WORK. NOTIFY ENGINEER IF DISCREPANCIES OCCUR.
3. EQUIPMENT PLATFORM DESIGN CRITERIA:
   DEAD LOAD = 15 PSF + WEIGHT OF EQUIPMENT
   LIVE LOAD = 20 PSF
   DEFLECTION = SMALLER OF LL/360, TL/240
4. HEADER (HDR) TO BE (2) 800S200-54 HEADER STUDS, TYPICAL U.O.N.. SUPPORT ON (2) BUILT-UP CFS POST STUDS, SIZE TO MATCH WALL FRAMING. FOR CONSTRUCTION SEE DETAIL 2/S5-01
5. PLATFORM SHEATHING TO BE T&G APA RATED STURD-I-FLOOR WITH A MINIMUM SPAN RATING OF 32 OC AND A MINIMUM THICKNESS OF 7/8". ATTACH TO FRAMING WITH #8 SCREWS AT 8" O.C. AT ALL SUPPORTED PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORTS, BLOCKING IS NOT REQUIRED.

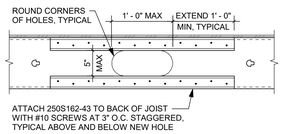


NOTES:
1. SOLID BLOCKING TO FIT SNUG IN FIRST AND LAST BAYS, ADJACENT TO ALL OPENINGS, AND PER PLAN.
2. STRAPPING TO START, END, AND SPLICE AT ALL SOLID BLOCKING.
3. STRAPPING CAN BE DELETED ON ANY SIDE OF STUD WALL THAT IS SHEATHED. BLOCKING IS STILL REQUIRED AS SHOWN.

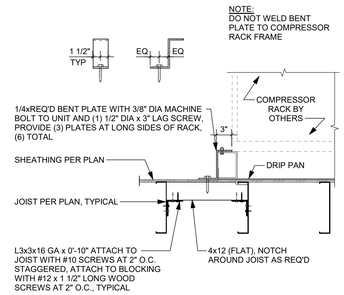


STRAP SPLICE CONDITION

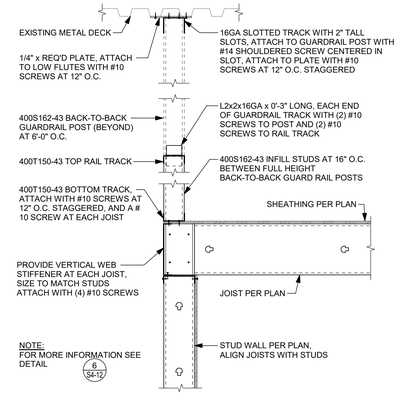
1 S4-12 BLOCKING DETAIL
1" = 1'-0"



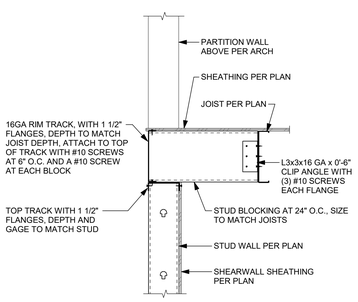
2 S4-12 CFS HOLE REINFORCING
1" = 1'-0"



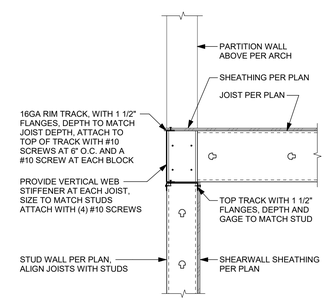
3 S4-12 COMP. RACK ANCHORAGE DETAIL
1" = 1'-0"



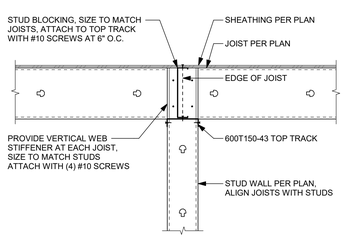
4 S4-12 FRAMING DETAIL
1" = 1'-0"



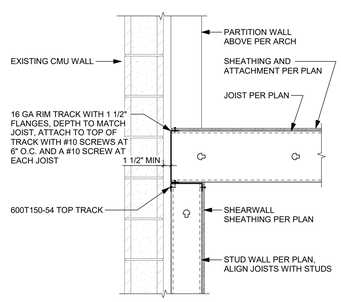
5 S4-12 FRAMING DETAIL
1" = 1'-0"



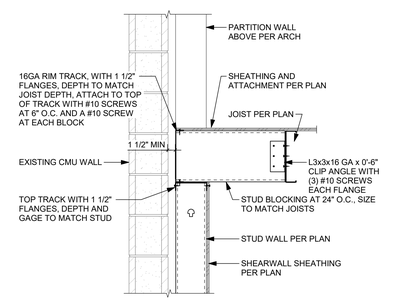
6 S4-12 FRAMING DETAIL
1" = 1'-0"



7 S4-12 FRAMING DETAIL
1" = 1'-0"



8 S4-12 FRAMING DETAIL
1" = 1'-0"



9 S4-12 FRAMING DETAIL
1" = 1'-0"

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 75466PE Justin Elliott OREGON JUNE 18, 2014 JUSTIN JAMES ELLIOTT
EXP. 12/31/2025

PROFESSIONAL IN CHARGE JJE
PROJECT MANAGER ERO
QUALITY CONTROL ERO
DRAWN BY BMW

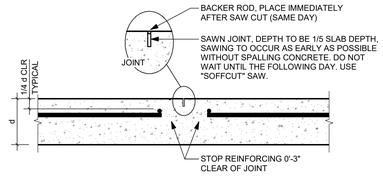
PROJECT NAME
GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER 20240750

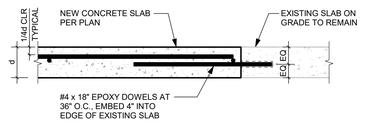
SHEET TITLE
EQUIPMENT PLATFORM FRAMING PLANS & DETAILS

SHEET NUMBER
S4-12

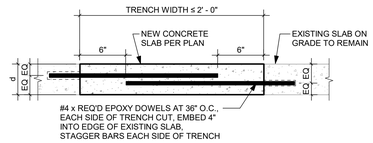
Last Modified: 2/24/2025 3:31:12 PM Drawing Name: C:\Users\vlmkdesk\Documents\20 Ti Central Point, OR_central_v22_brockenet\AEC9.rvt



WET SAWN CONTROL JOINT

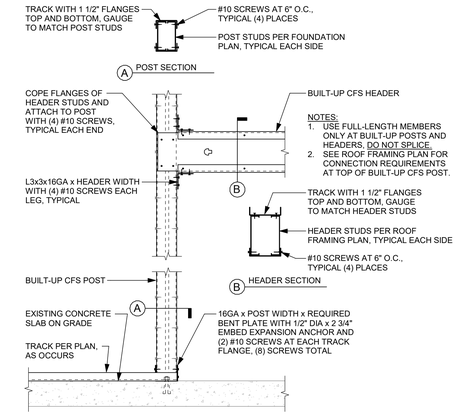


AT NEW SLAB EDGES AND TRENCH POURBACKS MORE THAN 24" WIDE

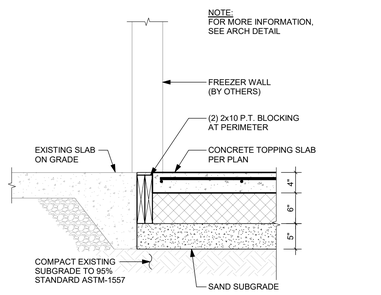


AT TRENCH POURBACKS LESS THAN 24" WIDE

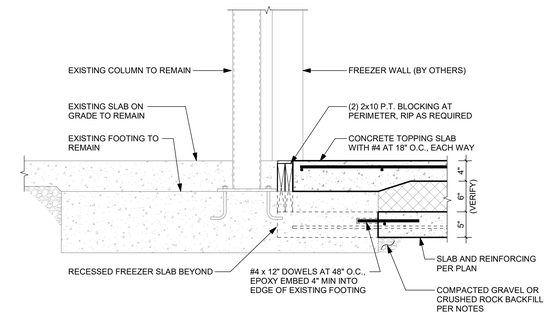
1 S5-01 SLAB REPLACEMENT DETAILS
1 1/2" = 1'-0"



2 S5-01 FRAMING DETAIL
1" = 1'-0"



3 S5-01 FREEZER SLAB DETAIL
1" = 1'-0"



4 S5-01 FREEZER SLAB DETAIL
1" = 1'-0"

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 75466PE Justin Elliott OREGON JUNE 18, 2014 JUSTIN JAMES ELLIOTT

EXP. 12/31/2025

PROFESSIONAL IN CHARGE
JJE
PROJECT MANAGER
ERO
QUALITY CONTROL
ERO
DRAWN BY
BMW

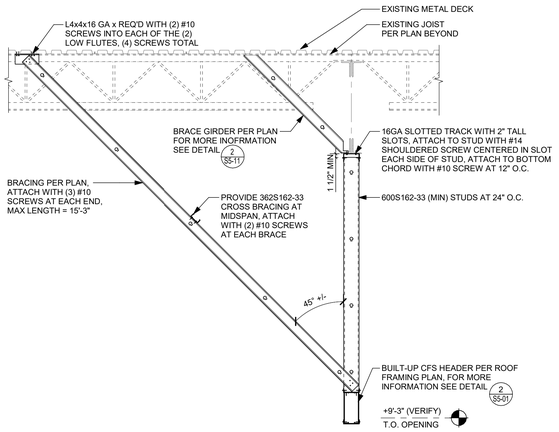
PROJECT NAME
GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20240750

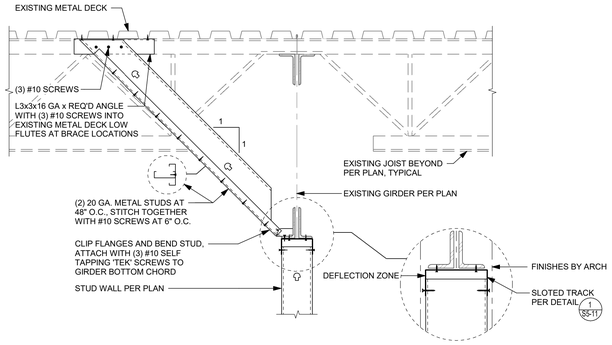
SHEET TITLE
FOUNDATION & CMU WALL DETAILS

SHEET NUMBER
S5-01

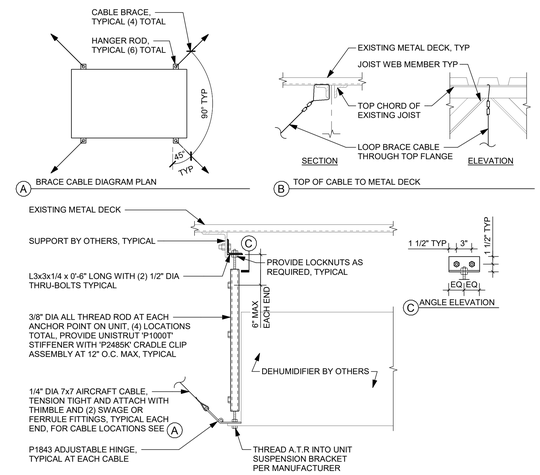
Last Modified 2/24/2025 3:37:13 PM Drawing Name:C:\Users\brendon\Documents\GO_TI_Central Point, OR_central_v22_brendonwidBCQ.rvt



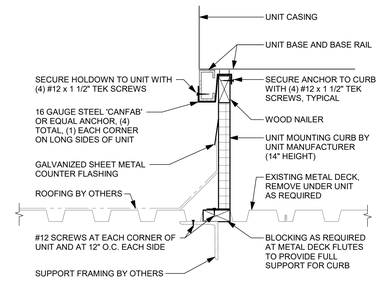
1 S5-11 PARTITION WALL DETAIL
1/2" = 1'-0"



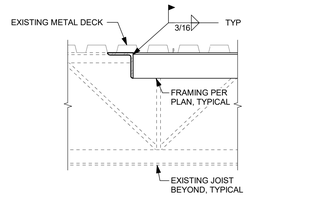
2 S5-11 FRAMING DETAIL
1" = 1'-0"



3 S5-11 SUSPENDED EQUIPMENT ANCHORAGE
1" = 1'-0"



4 S5-11 HVAC CURB DETAIL
1 1/2" = 1'-0"



5 S5-11 FRAMING DETAIL
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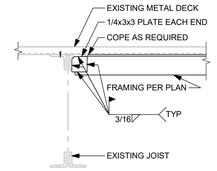

6 S5-11 FRAMING DETAIL
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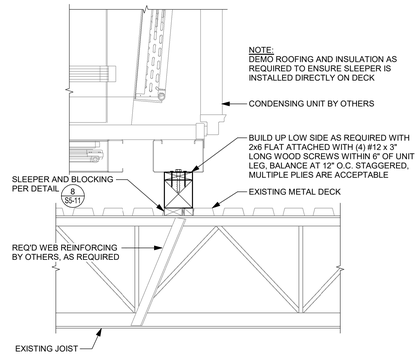
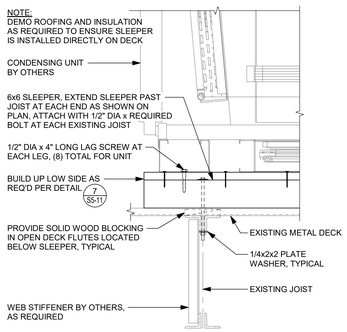


7 S5-11 EQUIPMENT ANCHORAGE DETAIL
1" = 1'-0"



8 S5-11 EQUIPMENT ANCHORAGE DETAIL
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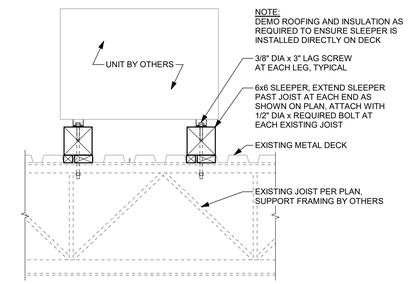

9 S5-11 EQUIPMENT ANCHORAGE DETAIL
1" = 1'-0"

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
7546PE
OREGON
JUNE 18, 2014
JUSTIN JAMES ELLIOTT
EXP. 12/31/2025

PROFESSIONAL IN CHARGE
JE
PROJECT MANAGER
ERO
QUALITY CONTROL
ERO
DRAWN BY
EWW

PROJECT NAME
GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20240750

SHEET TITLE
ROOF FRAMING DETAILS

SHEET NUMBER
S5-11

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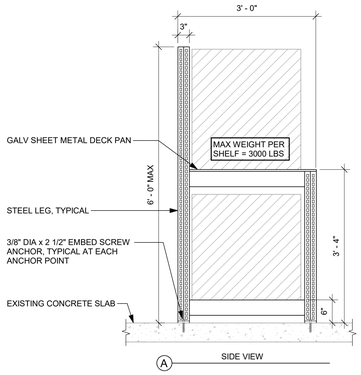
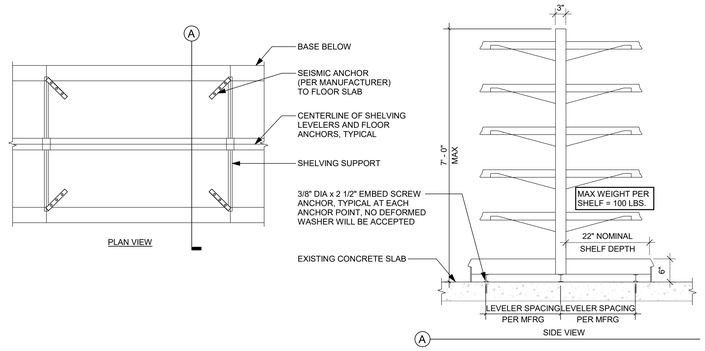


1 S6-01 PALLET SHELVING DETAIL

3/4" = 1'-0"



2 S6-01 GONDOLA SHELVING ANCHORAGE DETAIL

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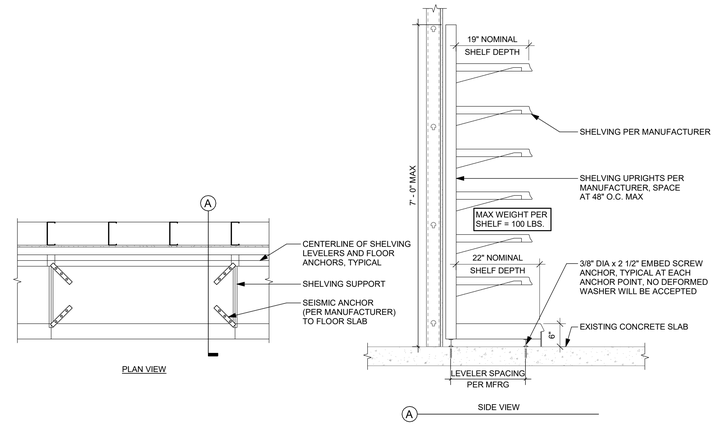

3 S6-01 WALL SHELVING ANCHORAGE DETAIL

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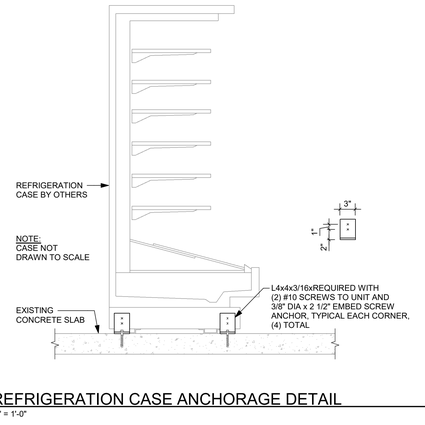

4 S6-01 REFRIGERATION CASE ANCHORAGE DETAIL

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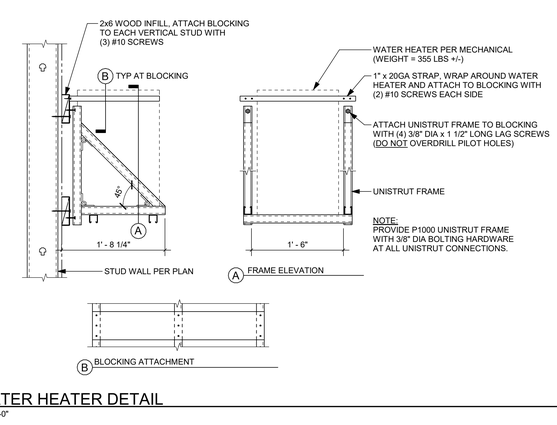

5 S6-01 WATER HEATER DETAIL

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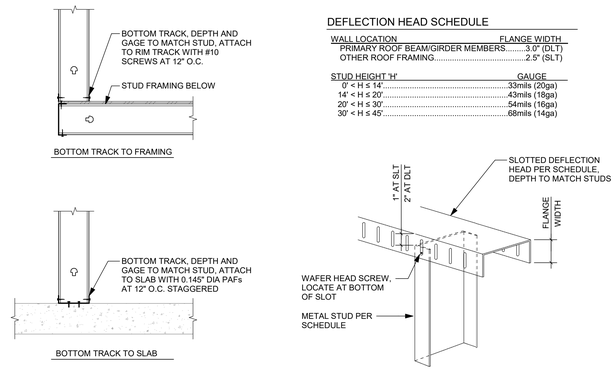

6 S6-01 PARTITION WALL DETAILS

1" = 1'-0"

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EXP. 12/31/2025

PROFESSIONAL IN CHARGE
JJE
PROJECT MANAGER
ERO
QUALITY CONTROL
ERO
DRAWN BY
BMW

PROJECT NAME

GROCERY OUTLET

4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20240750

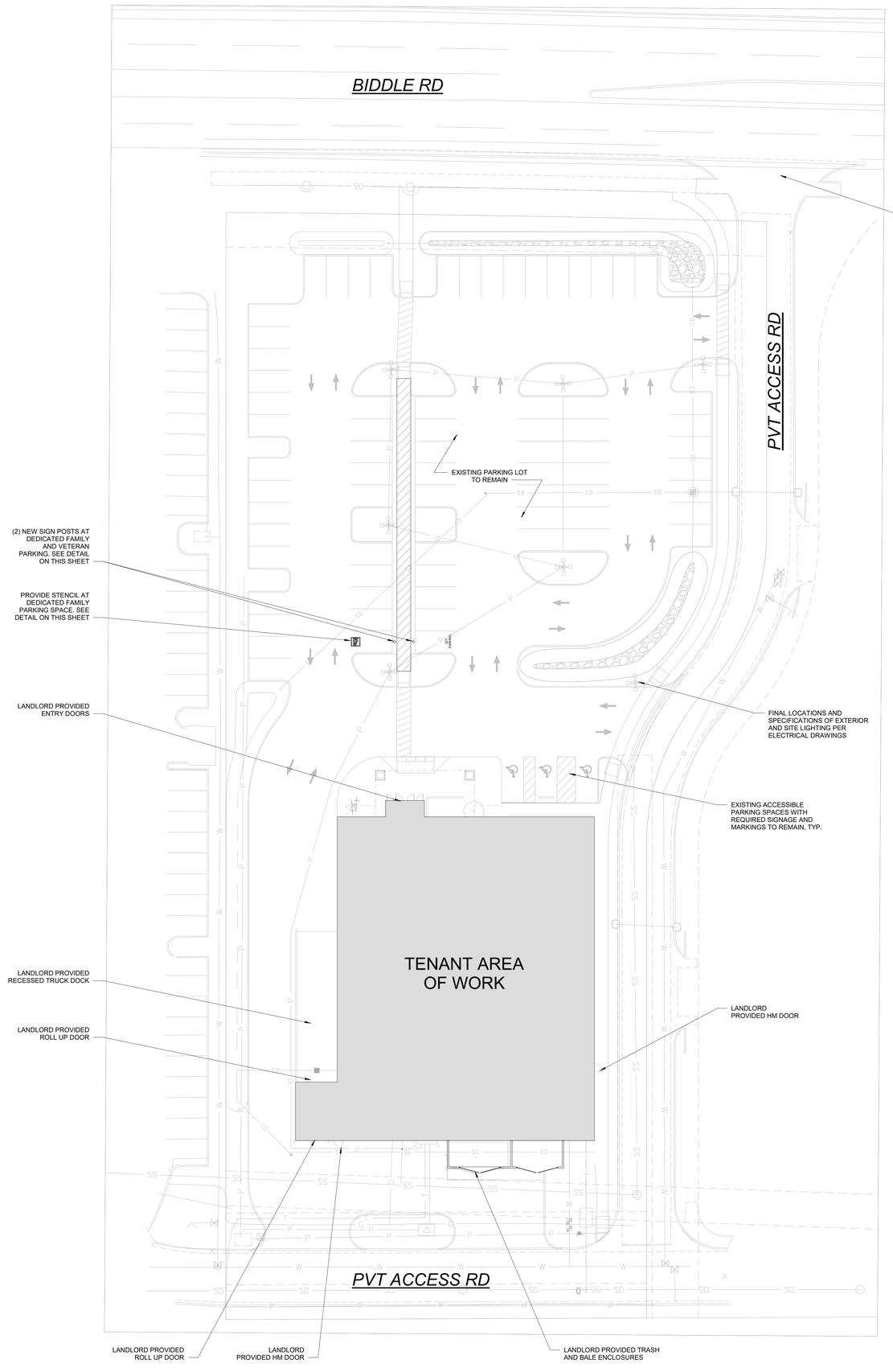
SHEET TITLE

MISCELLANEOUS TENANT DETAILS

SHEET NUMBER

S6-01

Last Modified 2/24/2025 3:37:16 PM Drawing Name:C:\Users\jonesbmw\Documents\GO TI Central Point, OR_central_r22_jonesbmwKLBRC6.rvt



1 OVERALL SITE PLAN
3/64" = 1'-0"

NORTH

GENERAL SITE NOTES:

1. ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES, AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
2. UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C.) OR EXISTING, ALL OTHER ITEMS MATERIALS, AND INSTALLATION ARE PART OF THE CONTRACT, AS DEFINED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS, AND ASSEMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS THEREON BEFORE COMMENCING WORK. REPORT ANY DISCREPANCIES AND/ OR POTENTIAL PROBLEMS TO THE PROPERTY REPRESENTATIVE PRIOR TO PROCEEDING WITH AFFECTED WORK.
4. CONTRACTORS ARE RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION ON THE DOCUMENTS.

ACCESSIBILITY NOTES:

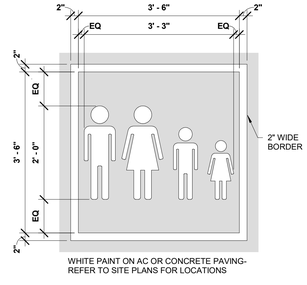
1. "ACCESSIBLE' PATH OF TRAVEL (P.O.T.): HAS A 1:20 MAXIMUM SLOPE (UNLESS NOTED OTHERWISE, AS INDICATED ON THE PLANS) AND IS A BARRIER FREE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2 INCH (AT A 1:2 MAXIMUM BEVELED SLOPE) AND WITHOUT ANY VERTICAL CHANGES EXCEEDING 1/4 INCHES.
   - 1.1 P.O.T. IS AT LEAST 48 INCHES WIDE AND SURFACES ARE SLIP RESISTANT, STABLE, FIRM, AND WITHOUT SHARP OR ROUGH EDGES.
   - 1.2 P.O.T. CROSS SLOPE SHALL NOT EXCEED 2% AND SHALL BE LESS THAN A 5% SLOPE IN THE DIRECTION OF TRAVEL (UNLESS OTHERWISE INDICATED).
   - 1.3 P.O.T. SHALL BE MAINTAINED FREE OF OVERHEAD OBSTRUCTIONS NO LESS THAN 80 INCHES ABOVE THE PATH AND FREE OF ANY OBJECT GREATER THAN 4 INCHES IN DEPTH PROTRUDING FROM A WALL ABOVE 27 INCHES AND BELOW 80 INCHES.
   - 1.4 P.O.T. SHALL NOT HAVE MORE THAN A 4 INCH DROP-OFF AT EDGES OF ACCESSIBLE WALKWAYS OR LANDINGS TO ADJACENT GRADES.
2. CONTRACTOR TO CONFIRM ALL INDICATED PATH OF TRAVEL SLOPES AND INSTALL DETECTABLE WARNING SURFACES AT TRANSITION BETWEEN RAMP AND VEHICULAR PATH OF TRAVEL AS REQUIRED BY DETAIL.
3. ALL ACCESSIBLE PARKING STALLS AND ACCESSIBLE LOADING ZONES TO CONFORM TO THE REQUIREMENTS INDICATED ON THESE DRAWINGS. IF ANY STALL DOES NOT CONFORM TO APPLICABLE BUILDING CODES AND THE REQUIREMENTS INDICATED, THE GENERAL CONTRACTOR IS TO CONTACT THE ARCHITECT AND THE GROCERY OUTLET PROJECT MANAGER IMMEDIATELY.
4. GENERAL CONTRACTOR IS TO CONFIRM ALL EXISTING CURB RAMPS CONFORM TO APPLICABLE BUILDING CODES AND REQUIREMENTS IN THESE DRAWINGS. IF ANY RAMP ALONG THE INDICATED PATHS OF TRAVEL DOES NOT CONFORM TO APPLICABLE BUILDING CODES AND THE REQUIREMENTS INDICATED, THE GENERAL CONTRACTOR IS TO CONTACT THE ARCHITECT AND THE GROCERY OUTLET PROJECT MANAGER IMMEDIATELY.
5. GENERAL CONTRACTOR IS TO CONFIRM ALL EMERGENCY EGRESS DOORS AND THE CLEAR SPACE AROUND EMERGENCY EGRESS DOORS CONFORM TO THE REQUIREMENTS IN THESE DRAWINGS. IF ANY DOOR DOES NOT CONFORM TO THE REQUIREMENTS INDICATED, THE GENERAL CONTRACTOR IS TO CONTACT THE ARCHITECT AND THE GROCERY OUTLET PROJECT MANAGER IMMEDIATELY.

SAFETY/ EXITING:

1. CONTRACTOR SHALL PROVIDE, AND IS SOLELY RESPONSIBLE AND LIABLE FOR, PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, ORDINANCES, AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
2. EXIT SIGNS WHERE NOTED OR REQUIRED SHALL BE WORDED "EXIT" IN LETTERS HAVING THE PRINCIPLE STROKE OF NOT LESS THAN 3/4" WIDE AND AT LEAST 6" HIGH AND SHALL CONFORM TO CODES AND/ OR APPLICABLE REGULATIONS.
3. ALL FIRE-RATED ASSEMBLIES SHALL BE DETERMINED, AND SHALL BE LABELED AND INSPECTED, IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.
4. ALL RAMPS SHALL HAVE A HEAVY BROOM FINISH. SEE SITE PLAN DETAILS.
5. FIRE DAMPERS OR FIRE DOORS SHALL BE PROVIDED WHERE AIR DUCTS OR OPENINGS PENETRATE FIRE RATED SURFACES.
6. GOVERNING CODES AND FIRE DEPARTMENT FIELD INSPECTOR SHALL DICTATE SIZE, TYPE, QUALITY, AND LOCATIONS OF BOTH TEMPORARY AND PERMANENT EXTINGUISHERS.
7. ALL LEGAL EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL BE LABELED "THIS DOOR TO REMAIN UNLOCKED WHENEVER THE BUILDING IS OCCUPIED" IN LETTERS NOT LESS THAN ONE INCH HIGH ON A CONTRASTING BACKGROUND. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE, MANUALLY OPERATED. FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED.
8. EXIT DOORS MUST OPEN OVER A LANDING NOT MORE THAN 1/2" BELOW THE THRESHOLD.

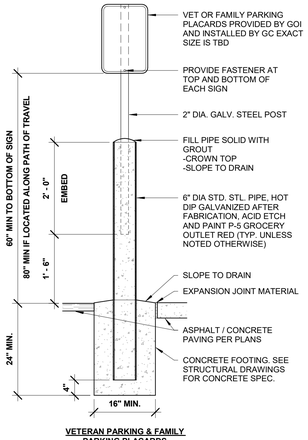
COORDINATION:

1. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATION AMONG ALL THE VARIOUS SUBCONTRACTORS.
2. IN THE EVENT OF DISCREPANCIES BETWEEN ANY DRAWINGS AND/OR SPECIFICATIONS, THE COSTLIER OR MORE RESTRICTIVE CONDITIONS SHALL BE DEEMED THE CONTRACT REQUIREMENT, UNLESS OTHERWISE STATED IN WRITING, FROM THE DEVELOPER.
3. GENERAL CONTRACTOR SHALL COORDINATE ALL UNDERGROUND ITEMS WITH THE PLUMBING, ELECTRICAL, AND/ OR REFRIGERATION DRAWINGS, ETC AS REQUIRED.
4. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MECHANICAL, PLUMBING, AND ELECTRICAL SECTIONS, AS PER CODE. ACCESS PANELS SHALL BE LOCATED, FURNISHED AND INSTALLED IN WALLS OR CEILINGS BY RATING. FINISH AND LOCATION SHALL BE APPROVED BY THE DEVELOPER PRIOR TO FABRICATION AND INSTALLATION.



WHITE PAINT ON AC OR CONCRETE PAVING- REFER TO SITE PLANS FOR LOCATIONS

3 FAMILY PARKING STENCIL
3/4" = 1'-0"



VETERAN PARKING & FAMILY PARKING PLACARDS

4 SIGN POST DETAIL
3/4" = 1'-0"

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JANEL MALLEK
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Expires: 12/31/2026
STATE OF OREGON

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QUALITY CONTROL
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DRAWN BY
M. BYRNE

PROJECT NAME
GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0
SHEET TITLE
OVERALL SITE PLAN
SHEET NUMBER
AS1-01

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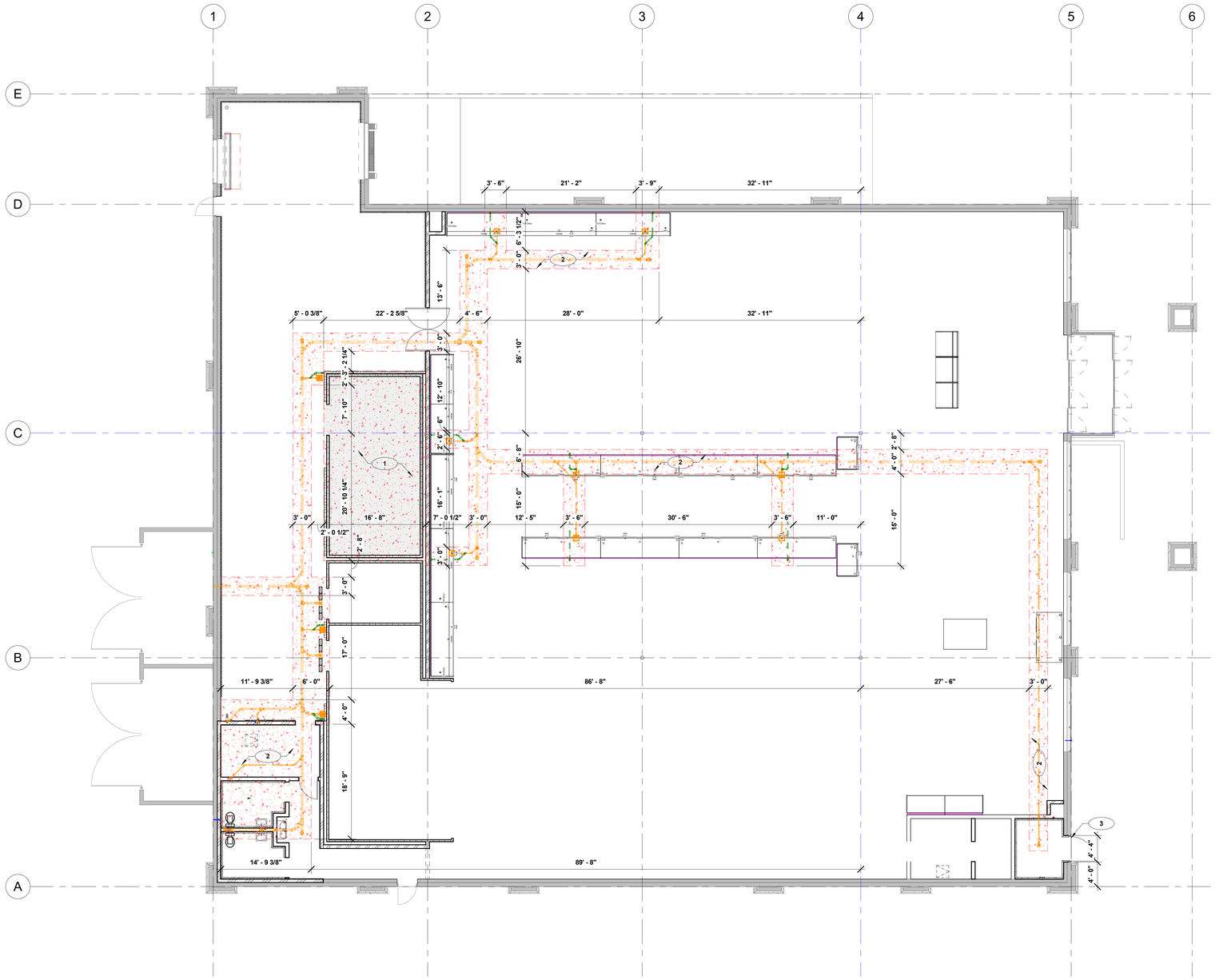

1 DEMOLITION PLAN
1/8" = 1'-0"

NORTH

UNDERGROUND PLUMBING PLAN GENERAL NOTES

1. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT OF ALL DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. CONTRACTOR TO PREVENT MOVEMENT OR SETTLEMENT OF STRUCTURE(S). PROVIDE BRACING OR SHORING AND BE RESPONSIBLE FOR SAFETY AND SUPPORT OF STRUCTURE(S). ASSUME LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, DAMAGE, AND OR INJURY.
3. CEASE OPERATIONS AND NOTIFY THE OWNER IMMEDIATELY IF SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO PROPERLY SUPPORT STRUCTURE. DO NOT RESUME OPERATIONS UNTIL SAFETY IS RESTORED.
4. PROVIDE AND MAINTAIN BARRICADES, LIGHTING AND GUARD RAILS AS REQUIRED BY APPLICABLE REGULATORY ADVISORY TO PROTECT OCCUPANTS OF BUILDING, WORKERS, AND PEDESTRIANS.
5. CERTAIN EXISTING ITEMS MAY BE REMOVED FOR FUTURE RE-INSTALLATION. GC TO COORDINATE CAREFUL REMOVAL AND STORAGE OF THESE ITEMS FOR RE-INSTALLATION DURING CONSTRUCTION.
6. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE NEW WORK, INCLUDING THAT REQUIRED FOR CONNECTION TO THE EXISTING BUILDING. PROTECT EXISTING FOUNDATIONS AND SUPPORTING STRUCTURAL MEMBERS. PHASE DEMOLITION IN ACCORDANCE WITH CONSTRUCTION SCHEDULE.
7. PERFORM DEMOLITION IN ACCORDANCE WITH APPLICABLE AUTHORITIES HAVING JURISDICTION.
8. REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED, AT NO COST TO THE OWNER.
9. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
10. ALL EXISTING WORK NOT IN THIS SCOPE OF WORK SHALL BE MAINTAINED IN IT'S ORIGINAL CONDITION. PROTECT WORK FROM DAMAGE RESULTING FROM THIS WORK.
11. CONTRACTOR SHALL, IN THE WORK OF ALL TRADES, PERFORM ANY AND ALL CUTTING, PATCHING, RESTORING, REPAIRING AND THE LIKE NECESSARY TO COMPLETE THE WORK AND RESTORE ANY DAMAGED SURFACES RESULTING FROM THE WORK TO THEIR ORIGINAL CONDITION. ALL ROOF PATCHING SHALL RETURN AREA TO 'LIKE NEW' CONDITION.
12. REFER TO ALL DISCIPLINE SHEETS FOR UNDER GROUND FEEDS REQUIRING SLAB CUTTING & CORING DURING THE DEMOLITION PHASE WHICH MAY NOT BE SHOWN ON THE DEMO DRAWINGS.
13. PROTECT FIRE ALARM LIFE SAFETY SYSTEM & WIRING DEVICES, ETC. DURING DEMOLITION AND NEW CONSTRUCTION.
14. PROVIDE TEMPORARY STRUCTURE AND SECURE INFILL AT OPENINGS IN EXTERIOR WALLS.
15. ALL MEANS OF EGRESS MUST REMAIN CLEAR AND THE FIRE DETECTION SYSTEMS MUST REMAIN OPERATIONAL DURING DEMOLITION WORK.
16. COORDINATE DEMOLITION WITH PROPOSED CONSTRUCTION. INCLUDE ALL ITEMS AS REQUIRED FOR COMPLETION OF THE PROPOSED PROJECT.
17. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS/MATERIALS.
18. REFER TO PLUMBING, HVAC & ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES. COORDINATE PATCHING OF WALL, CEILING & FLOOR SURFACES WITH DEMOLITION OF OTHER TRADES.
19. PROVIDE WEATHER PROTECTION AS REQUIRED DURING ALL DEMOLITION.
20. REMOVE EXISTING CONCRETE SLAB AS REQUIRED BY PLUMBING AND ELECTRICAL DRAWINGS.
21. GENERAL CONTRACTOR SHALL HIRE A SPECIALTY CONTRACTOR EXPERIENCED IN DEMOLITION AND SHORING DESIGN FOR DESIGN AND INSTALLATION OF THE SHORING. SHORING DRAWINGS SHALL BE SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER AND BE SUBMITTED TO THE ARCHITECT PRIOR TO COMMENCING ANY DEMOLITION ACTIVITIES.
22. GENERAL CONTRACTOR IS RESPONSIBLE FOR SECURING THE BUILDING ONCE ANY OPENINGS ARE MADE.

UNDERGROUND PLUMBING PLAN LEGEND

	EXISTING ELEMENT TO REMAIN
	EXISTING ELEMENT TO BE REMOVED
	HATCH INDICATES AREA OF CONCRETE SLAB TO BE COORDINATED WITH LANDLORD DRAWINGS
X	KEY NOTE MARKER- REFER TO KEY

KEYNOTES - UNDERGROUND PLUMBING PLAN

MARK	NOTE
1	COORDINATE SLAB. THIS AREA, FOR NEW FREEZER. REFER TO STRUCTURAL DRAWINGS FOR INFORMATION. AREA INCLUDES FOOTPRINT OF FREEZER & ADDITIONAL 6" ON ALL SIDES FOR SLAB EDGE PER ARCHITECTURAL & STRUCTURAL DETAILS.
2	COORDINATE SLAB WITH LANLORD DRAWINGS AS REQUIRED FOR NEW PLUMBING WORK. REFER TO FLOOR PLANS AND PLUMBING DRAWINGS FOR LOCATIONS AND EXTENTS.
3	EXISTING WALL TO BE REMOVED TO PROVIDE OPENING FOR NEW 4'-0"W X 7'-0"H HM DOOR.

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QUALITY CONTROL
J. MALLEK
DRAWN BY
M. BYRNE

PROJECT NAME
GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0

SHEET TITLE
UNDERGROUND PLUMBING PLAN

SHEET NUMBER
AD1-01

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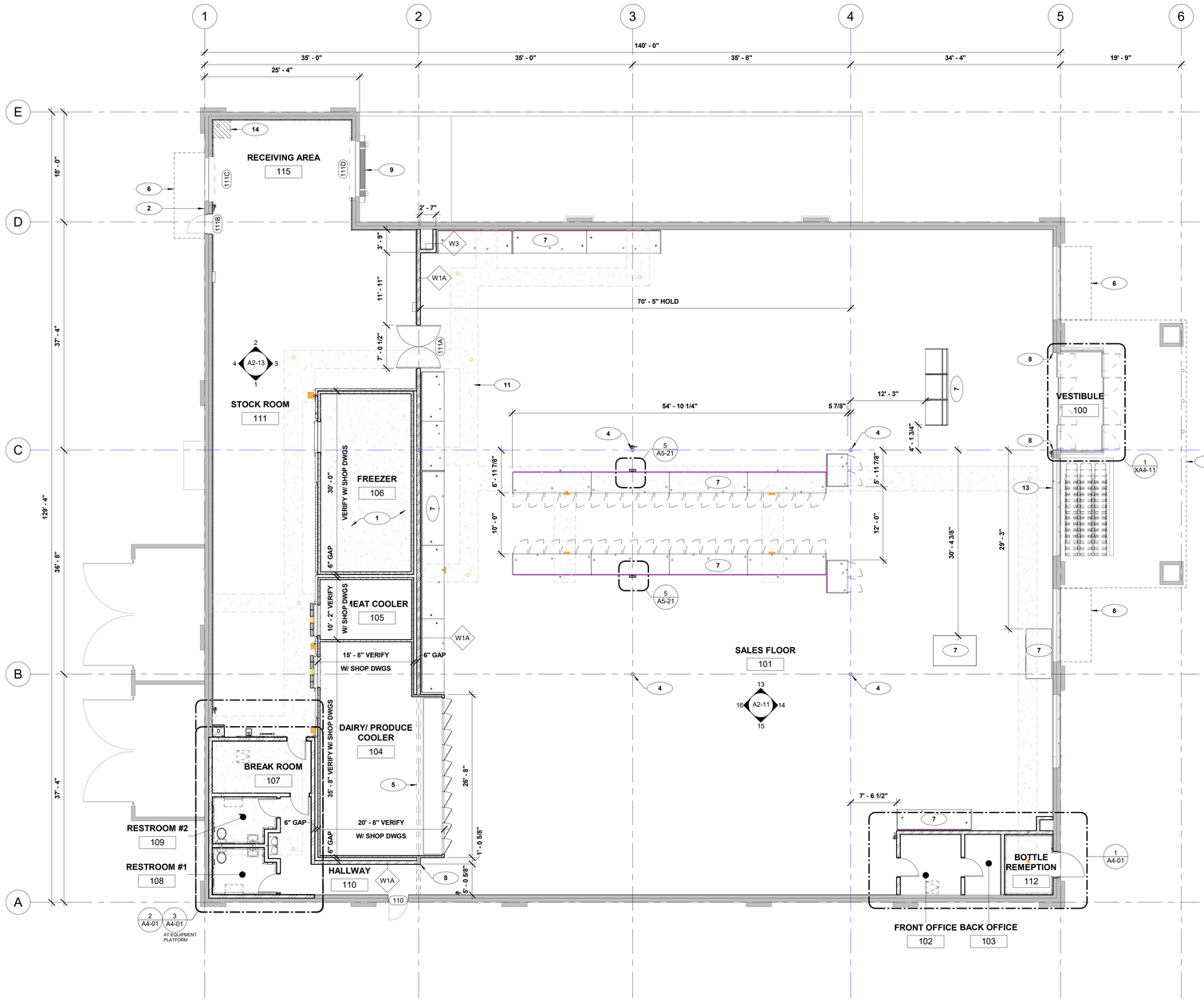

1 OVERALL WALL DIMENSIONING PLAN
1/8" = 1'-0"

NORTH

GENERAL NOTES

1. REFRIGERATION CASES SHOWN IN THIS PLAN FOR OVERALL COORDINATION & VERIFICATIONS - ALSO SEE FIXTURE LAYOUT DIMENSIONS ON SHEET A8-01.
2. G.C. MAY EITHER LEAVE UNDERSIDE OF ROOF STRUCTURE EXPOSED AND UNPAINTED BY PROVIDING "CLEAN" AND QUALITY" CRAFTSMANSHIP ACCEPTABLE TO THE TENANT REPRESENTATIVE - OR THEY WILL BE REQUIRED TO PAINT EXPOSED FRAMING AS WELL AS PROVIDE VINYL FACED SCRIM SHEET AT UNDERSIDE OF ROOF PLYWOOD AT ALL SALES AREAS.
3. DIMENSIONS TAKEN TO EXTERIOR WALLS ARE TO FACE OF PLYWOOD AND/OR FACE OF MASONRY AS APPLIES (U.N.O). ALL NEW INTERIOR FRAMING DIMENSIONS ARE TO FACE OF WALL STUDS (U.N.O).
4. G.C. TO PROVIDE INTERNATIONAL SYMBOL ACCESSIBILITY (ISA) DECAL AT MAIN ENTRANCE DOORS.
5. G.C. TO PROVIDE TACTILE EXIT SIGNS AT ALL EXIT DOORS PER ACCESSIBILITY DETAILS.
6. G.C. TO PROVIDE FIRE DEPARTMENT KEY KNOX BOX. G.C. SHALL COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH LOCAL FIRE MARSHAL.
7. G.C. TO HOLD ALL UTILITY LINES TIGHT TO ROOF FRAMING OR PERIMETER WALLS. GOI WILL NOT ALLOW UNDERSLAB CONDUITS UNLESS PRIOR WRITTEN APPROVAL.
8. G.C. SHALL SEAL ALL WALL & FLOOR PENETRATIONS AT EXTERIOR WALLS SO THAT THEY ARE VERMIN-FREE. THIS INCLUDES DOORS AND DOCK APPARATUS SO THAT VERMIN CANNOT ENTER BUILDING WHEN COMPLETELY CLOSED DOWN.
9. IT IS THE DESIGN INTENTION AND PREFERENCE TO EXPOSE WHERE PRACTICAL ANY LOW VOLTAGE + POWER CONDUITS + LIGHTING CONDUITS + GAS & WATER PIPING + SPRINKLING SYSTEM + REFRIGERATION LINE-SETS + CONDENSATE EVAC PIPING + SECURITY IN THE SALES AREAS AND BACK-OF-HOUSE FOR MAINTENANCE ACCESS AND POSSIBLE FUTURE REMODELING.
10. BUILDING IDENTIFICATION (ADDRESS) TO BE PROVIDED AT LOCATION(S) SHOWN ON EXTERIOR ELEVATIONS. VERIFY REQUIREMENTS WITH LOCAL CODES.
11. IN ADDITION TO THE EXTERIOR BOLLARDS SHOWN ON THESE PLANS, G.C. TO ORDER AN ADDITIONAL FOUR (4) BOLLARDS FOR POTENTIAL FUTURE USE.
12. GC TO FIELD VERIFY TOP OF WALL CONDITION FOR ALL EXISTING WALLS AT SALES FLOOR. IF EXISTING WALLBOARD DOES NOT RUN TO BOTTOM OF ROOF DECK, GC TO EXTEND WALLBOARD, TAPE AND FINISH.

WALL LEGEND

SEE SHEET A5-02 FOR WALL TYPES AND INSULATION/FINISHES

- = EXISTING WALLS TO REMAIN (FOR USE ON TI PROJECTS)
- = LOAD-BEARING / SHEAR WALLS (REFER TO STRUCTURAL SHEETS)
- = FULL HEIGHT PARTITIONS (TO BOTTOM OF ROOF DECK)
- = PARTITIONS (TO BOTTOM OF CEILING)
- = COOLER WALLS (BY MANUF.)

KEYNOTES - FLOOR PLAN

MARK	NOTE
1	INSULATED CONCRETE SLAB - SEE S-SHEETS
2	DOORBELL WITH EXTERIOR PUSH BUTTON. PUSH BUTTON TO BE MOUNTED AT 40" A.F.F. TO TOP OF BUTTON. REFER TO ELECTRICAL SHEETS FOR FURTHER INFORMATION & SPECIFICATION.
4	STRUCTURAL COLUMN - G.C. TO PROVIDE 48"H STAINLESS STEEL WRAP AT BASE WHEN EXPOSED IN SALES AREA.(AC2) REFER TO FINISH SCHEDULE SPECIFICATION.
5	SOFFIT ABOVE DAIRY/PRODUCE COOLER, REFER TO DETAIL ON SHEET A5-02
6	LINE INDICATES CANOPY ABOVE, BY LANDLORD
7	SEE A8-01 FOR ADDITIONAL INFORMATION ON ALL FIXTURES
8	STAINLESS STEEL CORNER GUARD (AC1) REFER TO FINISH SCHEDULE KEY ON A6-01 FOR SPECIFICATIONS
9	DOCK SEAL AND EDGE OF DOCK LEVELER, BY LANDLORD. SEE SHEET A6-01 FOR LOADING DOCK EQUIPMENT SCHEDULE.
11	LIGHT GREY CONCRETE HATCH INDICATES PORTION OF NEW CONCRETE SLAB. REFER TO DEMO PLAN FOR MORE INFO.
13	WALL-MOUNTED CART BUMPERS (AC3) ALONG THIS WALL. REFER TO INTERIOR ELEVATIONS FOR LENGTH AND A6-01 FOR SPECIFICATION.
14	HATCHED AREA DESIGNATED FOR FIRE SPRINKLER RISER - COORDINATE SIZE & LOCATION WITH FIRE PROTECTION DRAWINGS.

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JANEL MALLEK
ARLINGTON HEIGHTS, IL
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Expires: 12/31/2025
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PROJECT MANAGER
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QUALITY CONTROL
J. MALLEK
DRAWN BY
M. BYRNE

PROJECT NAME
GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
20241247.0

SHEET TITLE
FLOOR PLAN

SHEET NUMBER
A1-01

Last Modified: 3/4/2025 11:37:05 AM Drawing Name:C:\Users\jbolduc\Documents\520 Century Point, OR= Arch= R22_dbolduc@greenbergfarrow.com.rvt

REFLECTED CEILING PLAN GENERAL NOTES

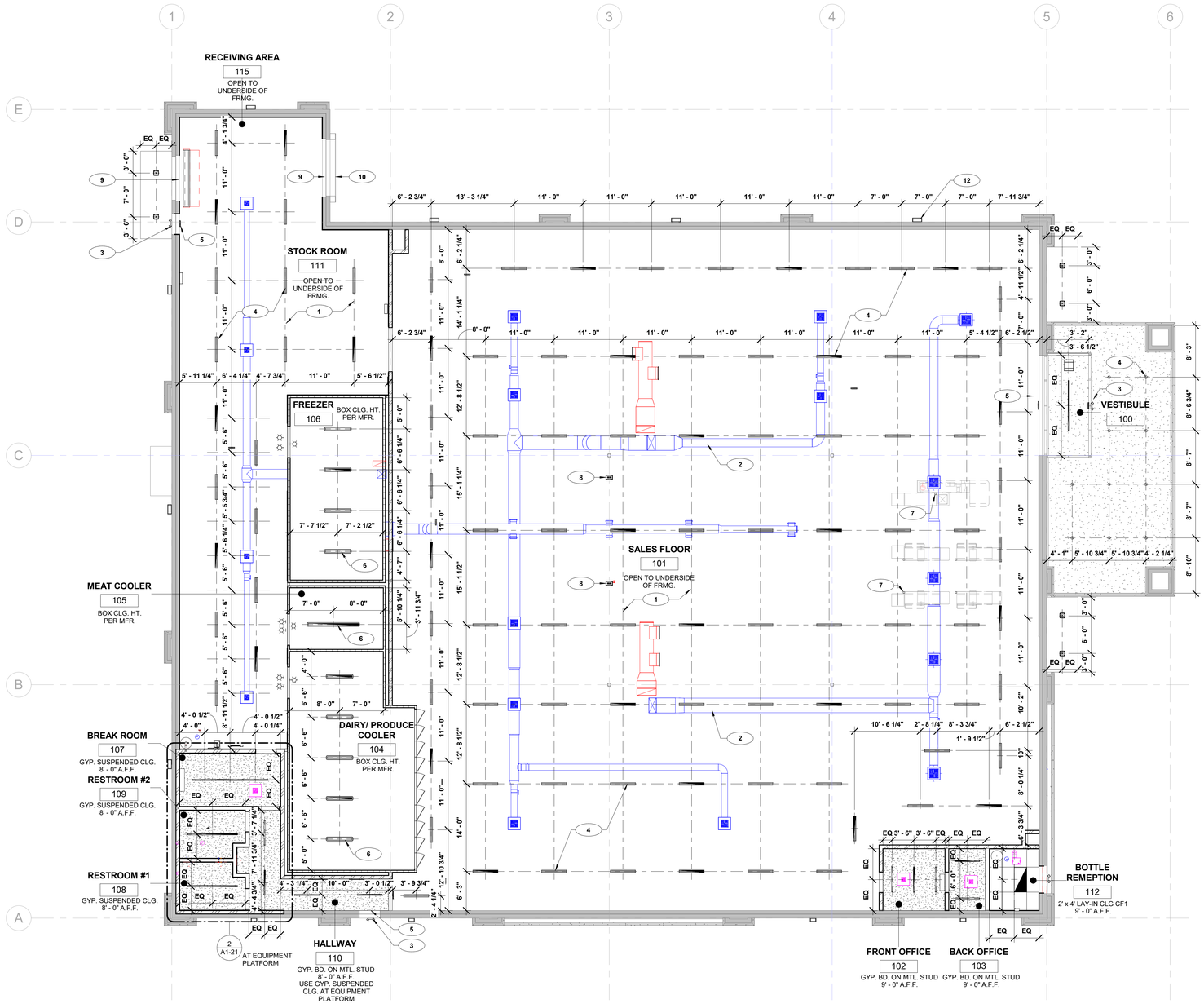
1. G.C. WITH FIRE MARSHAL'S DIRECTION WILL DETERMINE WHETHER ANY ADDITIONAL LIGHTED EMERGENCY EXIT SIGNAGE IS NEEDED. G.C. TO INSTALL EXTRA IF REQUIRED.
2. G.C. WITH FIRE MARSHAL'S DIRECTION WILL DETERMINE WHETHER ANY ADDITIONAL EMERGENCY BATTERY BACK-UP LIGHTING IS NEEDED. G.C. TO INSTALL EXTRA IF REQUIRED.
3. SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF POWER DROP CORDS
4. G.C. TO PROVIDE BLANK PLATES AT ALL JUNCTION BOXES (NOT USED FOR NEW LIGHTING DROPS - SEE E-SHEETS)
5. G.C. SHALL COORDINATE AND FIELD VERIFY THAT THE PLACEMENT OF HVAC DUCTING DOES NOT CONFLICT WITH LIGHTING SUPPORTS & BRACING, AS WELL AS CHECKSTAND DROPS, PRIOR TO INSTALLATION
6. G.C. TO PROVIDE ROOF INSULATION AS REQUIRED.

REFLECTED CEILING PLAN LEGEND

	LINEAR HIGH BAY LIGHT FIXTURE
	LINEAR NARROW STRIP LIGHT FIXTURE
	VAPORTIGHT ENCLOSED GASKETED LIGHT FIXTURE
	2'x4' TROFFER LIGHT FIXTURE
	SURFACE-MOUNTED CANOPY LIGHT FIXTURE
	TWIN HEAD EMERGENCY LIGHT FIXTURE
	EXIT SIGN
	EXTERIOR WALL PACK LIGHT FIXTURE
	PAINTED GYPSUM BOARD CEILING
	2'x4' LAY-IN CLG-CF1 SEE FINISH SCHEDULE A6-01

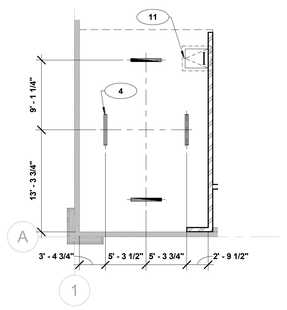
KEYNOTES - REFLECTED CEILING PLAN

MARK	NOTE
1	EXPOSED ROOF FRAMING - DO NOT PAINT
2	EXPOSED MECHANICAL DUCTWORK - SEE M-SHEETS
3	EMERGENCY LIGHT FIXTURE - SEE E-SHEETS
4	LIGHTING FIXTURE PER LEGEND - SEE E-SHEETS
5	ILLUMINATED EXIT SIGN - SEE E-SHEETS
6	LIGHT IN HOLDING BOX - SEE E-SHEETS
7	POWER POLE FOR POS WIRING AT EACH CHECKSTAND. SEE A5-21 AND E SHEETS FOR MORE INFO.
8	FALSE COLUMN FOR REFRIGERATION LINES. REFER TO DETAIL ON SHEET A5-21.
9	OVERHEAD COILING DOOR. REFER TO DETAILS ON SHEET A5-01.
10	DOCK SEAL. REFER TO LOADING DOCK EQUIPMENT SCHEDULE ON SHEET A6-01.
11	ROOF LADDER & HATCH - SEE DETAILS ON A5-11 FOR MORE INFORMATION. SEE SHEET A4-01 FOR LADDER LOCATION.
12	NEW EXTERIOR LIGHTING FIXTURE, TYP. - REFER TO ELECTRICAL PLANS FOR MORE INFORMATION



1 REFLECTED CEILING PLAN
1/8" = 1'-0"

NORTH



2 EQUIPMENT PLATFORM REFLECTED CEILING PLAN
1/8" = 1'-0"

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REFLECTED CEILING PLAN

SHEET NUMBER

A1-21

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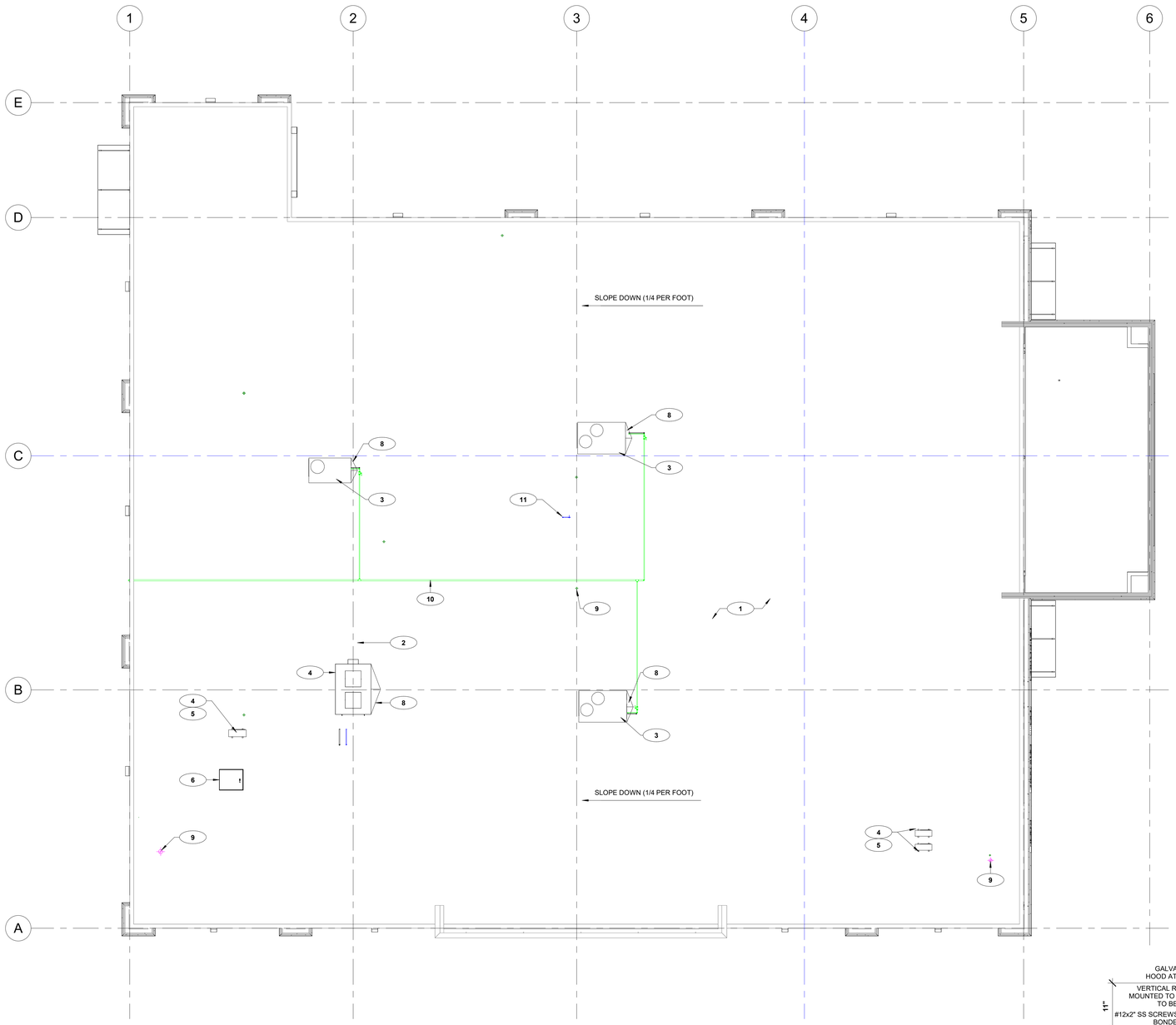


1 ROOF PLAN
1/8" = 1'-0"

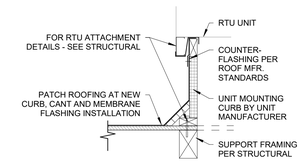
NORTH

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY LOCATION & SIZE OF ALL ROOF OPENINGS AND EQUIPMENT PLATFORMS REQUIRED - SEE COORDINATION NOTES BELOW.
2. CONTRACTOR SHALL REFER TO PLUMBING, MECHANICAL AND REFRIGERATION DRAWINGS FOR ALL VENTS AND PIPES THROUGH ROOF (WHICH MAY NOT NECESSARILY BE SHOWN ON THIS ROOF PLAN)
3. ANY/ALL OPENINGS AT ROOF LARGER THAN 8"X8" SHALL BE PROTECTED WITH BURGLAR BARS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. THE SPACING OF BARS SHALL NOT EXCEED 5" O.C.
4. ALL PENETRATIONS THROUGH ROOFING SHALL BE WEATHERTIGHT. CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW WITH ROOFING INSTALLER AND ROOFING MANUFACTURER PRIOR TO ANY REQUIRED OVERCUTS OR LAPS REQUIRED TO PROVIDE WEATHERTIGHT AND WARRANTED SYSTEM. PROVIDE STANDARD ROOFING MANUFACTURER BOOTS AND FLASHING FOR PENETRATIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A CERTIFICATE STATING THE ANY/ALL ROOF INSTALLATION HAS BEEN APPLIED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
6. ALL NEW ROOFING MATERIAL MUST COMPLY WITH ENERGY CODE.
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUBMITTALS & SHOP DRAWINGS AND ALL NECESSARY COORDINATION WITH THE ROOFING CONTRACTOR FOR THE FINAL PLACEMENT & SIZES OF THE ROOF CONDENSER PLATFORMS, REFRIGERATION PIPING PENETRATION/CURBS, ROOF MOUNTED CURBS FOR MECHANICAL (HVAC) EQUIPMENT, PLUMBING PIPING & STACK PENETRATIONS, PIPING SUPPORTS, EXHAUST/MAKE-UP AIR VENTS, ETC.
8. SAID COORDINATION SHALL BE PREFORMED PRIOR TO ANY INSTALLATION OF REQUIRED BLOCKING BELOW ROOF SHEATHING AS WELL AS ALL ROOF INSULATION & MEMBRANE COMPONENTS TO BE INSTALLED BY THE CONTRACTOR'S ROOFING SUB. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ATTACHMENTS, PENETRATION SEALANTS, ETC. AS NEEDED FOR COMPLETION OF WORK.
9. THE CONTRACTOR IS TO PROVIDE MEMBRANE FLASHING & COUNTERFLASHING FOR ALL MECHANICAL EQUIPMENT CURBS & VENTS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE G.I. CAPS AND ATTACHMENTS AT ALL PLATFORMS AND EQUIPMENT CURBS AS SHOWN IN DETAILS.

KEYNOTES - ROOF PLAN

MARK	NOTE
1	EXISTING TPO ROOF PER SPECIFICATIONS
2	PENETRATION FOR REFRIGERATION LINES, WITH WEATHER CAP - PER R-SHEETS
3	AIR HANDLING UNIT - SEE M-SHEETS
4	HVAC CONDENSING UNIT SET ON CURB. SEE M-SHEETS
5	LEVEL CURB W/ DX PIPE THROUGH ROOF - SEE - M-SHEETS
6	ROOF HATCH PER SPECIFICATIONS, REFER TO DETAIL ON SHEET A5-11.
8	ROOF CRICKET IF REQUIRED - REFER TO ROOF PLAN FOR DIRECTION OF SLOPE. MIN. 1/4" PER FOOT SLOPE. GC TO VERIFY SLOPING OF ROOF STRUCTURE WITH STRUCTURAL FRAMING PLAN AND PROVIDE CRICKETS WITH BUILT-UP INSULATION AS REQUIRED.
9	PLUMBING VENT THRU ROOF - SEE P SHEETS FOR MORE INFO.
10	GAS PIPING - SEE M SHEETS FOR MORE INFO.
11	ROOF HYDRANT - SEE P SHEETS FOR MORE INFO.



5 RTU CURB
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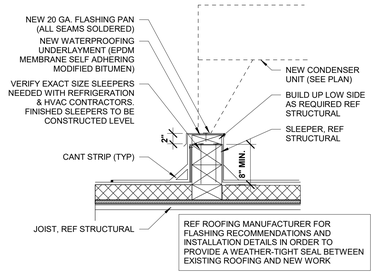
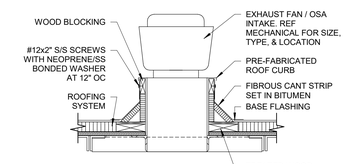
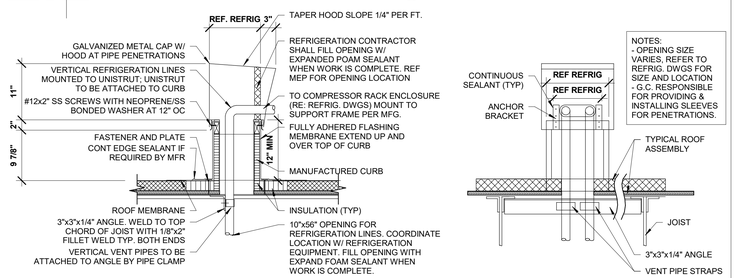


4 CONDENSER UNIT FLASHING
1" = 1'-0"



3 EXHAUST / OSA CURB
1" = 1'-0"



2 REFRIGERATION LINE ROOF PENETRATION
1" = 1'-0"

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PROJECT TEAM

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED ARCHITECT
JANEL MALLEK
ARLINGTON HEIGHTS, IL
ARI-14901
STATE OF OREGON
Expires: 01/31/2026

PROFESSIONAL IN CHARGE
J. MALLEK

PROJECT MANAGER
J. MALLEK

QUALITY CONTROL
J. MALLEK

DRAWN BY
M. BYRNE

PROJECT NAME

GROCERY OUTLET

4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0

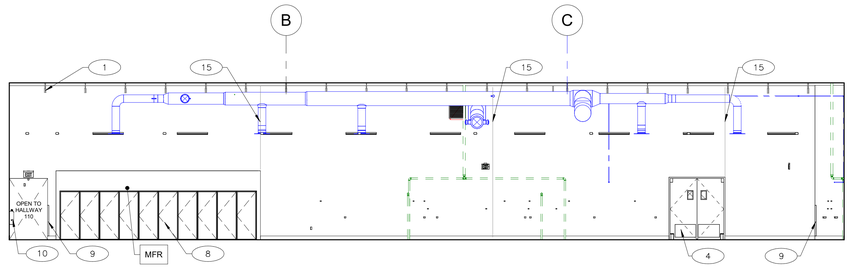
SHEET TITLE

ROOF PLAN

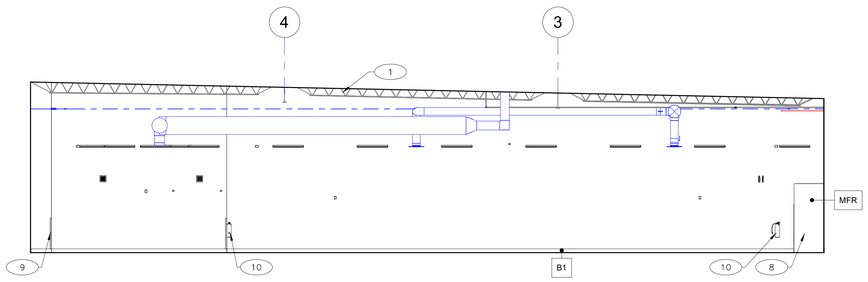
SHEET NUMBER

A1-31

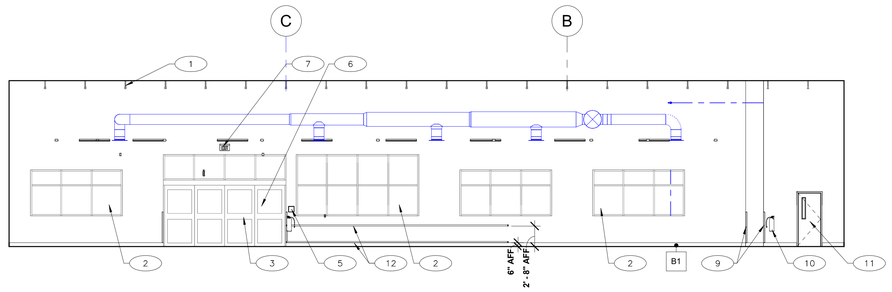
Last Modified: 3/4/2025 11:37:10 AM Drawing Name=C:\Users\Vlplosyk\Documents\GO Central Point OR+ Arch+ R22_dcplosyk@greenbergfarrow.com.rvt



16 REAR WALL SALES AREA
1/8" = 1'-0"



15 LEFT SIDE WALL SALES AREA
1/8" = 1'-0"



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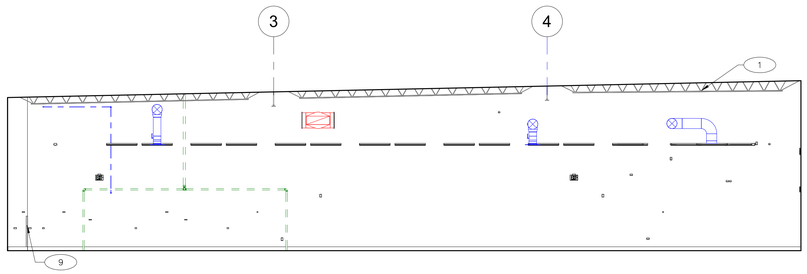
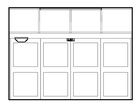
1/8" = 1'-0"

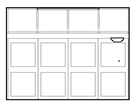


13 RIGHT SIDE WALL SALES AREA
1/8" = 1'-0"

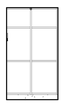


12 REAR WALL VESTIBULE
1/8" = 1'-0"

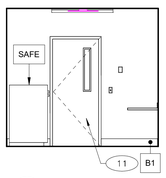
11 LEFT SIDE WALL VESTIBULE
1/8" = 1'-0"



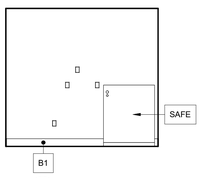
10 FRONT WALL VESTIBULE
1/8" = 1'-0"



9 RIGHT SIDE WALL VESTIBULE
1/8" = 1'-0"



8 FRONT OFFICE
1/4" = 1'-0"



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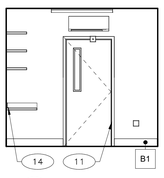
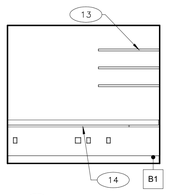
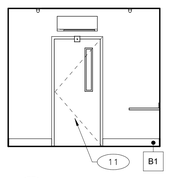
1/4" = 1'-0"



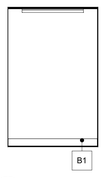
6 FRONT OFFICE
1/4" = 1'-0"



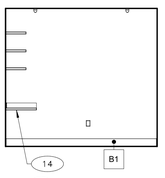
5 FRONT OFFICE
1/4" = 1'-0"



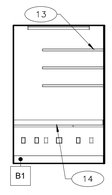
4 BACK OFFICE
1/4" = 1'-0"



3 BACK OFFICE
1/4" = 1'-0"



2 BACK OFFICE
1/4" = 1'-0"



1 BACK OFFICE
1/4" = 1'-0"

GENERAL NOTES

1. SEE ROOM FINISH SCHEDULE ON SHEET A6-01 FOR ALL FLOOR, WALL & CEILING MATERIALS NOT NOTED ON ELEVATIONS.
2. SEE FINISH SCHEDULE ON A6-01 FOR ALL FINISH MATERIALS.

WALL MATERIAL

MARK	DESCRIPTION
MFR	PRE-FINISHED COOLER/FREEZER BOX PANELS (PER MFR.)
FRP	FIBER REINFORCED PANELS - HT. PER INT. ELEVS.
PLY	1/2" CDX PLYWD.

KEYNOTES - SALES & OFFICES ELEVATIONS

MARK	NOTE
1	EXPOSED ROOF STRUCTURE - SEE FINISH SCHEDULE ON SHEET A6-01.
2	EXISTING STOREFRONT WINDOWS
3	EXISTING AUTOMATED SLIDING ENTRANCE DOOR PACKAGE WITH BREAK AWAY EMERGENCY EGRESS
4	TRAFFIC IMPACT DOORS - SEE DOOR SCHEDULE
5	TACTILE EXIT SIGNAGE
6	ACCESSIBLE BUILDING ENTRANCE SIGN (AT EXTERIOR)
7	ILLUMINATED EXIT SIGN - SEE ELECTRICAL SHEETS
8	DAIRY COOLER BOX PER SHOP DRAWINGS
9	48"H STAINLESS STEEL CORNER GUARD AT R.R. CORRIDOR - SEE FINISH SCHEDULE ON A6-01 FOR SPEC.
10	SURFACE MOUNTED FIRE EXTINGUISHER - REFER TO CODE DATA SHEET FOR ADDITIONAL INFORMATION
11	DOOR. SEE DOOR SCHEDULE
12	CART BUMPERS AT FRONT WALL. REFER TO FINISH SCHEDULE FOR CART BUMPER SPECIFICATION.
13	(3) ROWS OF 4'-0" X16" DP. LAMINATE SHELVING W/ 1" X 2" FRONT LEDGE. PROVIDE ADJUSTABLE WALL BRACKETS AND CHANNELS WITH BLOCKING AS REQUIRED. - SHELVING TO BE 1/2" PLYWOOD WITH MELAMINE FINISH ALL SIDES. CONFIRM EXACT LOCATION OF SHELVING WITH GROCERY OUTLET CONSTRUCTION MANAGER.
14	+ 30" HIGH PLASTIC LAMINATE COUNTERTOP (FINISHED ALL EDGES EXCEPT AGAINST WALL) WITH PERMANENT HEAVY DUTY METAL BRACES (WHERE SHOWN). PROVIDE BLOCKING AND SCRIBE NAILER AS REQUIRED. CONFIRM ALL COUNTER / SUPPORT LOCATIONS WITH G.O. CONSTRUCTION MANGER
15	GYPSUM BOARD CONTROL JOINT. LOCATE AT TRAFFIC DOORS, WHERE CURTAIN WALL MEETS ROOM SEPARATION WALL AT DAIRY COOLER. AND TO ACCOMMODATE GRAPHIC. 30'-0" O.C. MAX. G.C. TO COORDINATE WITH GOI PM AND GRAPHICS VENDOR.

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PROJECT TEAM

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED ARCHITECT
JANEL MALLEK
ARLINGTON HEIGHTS, IL
ARI-14901
12/31/26
STATE OF OREGON

PROFESSIONAL IN CHARGE
J. MALLEK
PROJECT MANAGER
J. MALLEK
QUALITY CONTROL
J. MALLEK
DRAWN BY
M. BYRNE

PROJECT NAME

GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
20241247.0

SHEET TITLE

INTERIOR ELEVATIONS - SALE FLOOR & OFFICES

SHEET NUMBER

A2-11

Last Modified: 3/4/2025 11:37:13 AM Drawing Name:C:\Users\dpolop\Documents\GO Central Point OR- Arch- R22_dpolop@greenbergfarrow.com.rvt

GENERAL NOTES

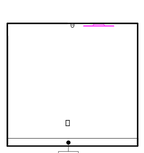
1. SEE ROOM FINISH SCHEDULE ON SHEET A6-01 FOR ALL FLOOR, WALL & CEILING MATERIALS NOT NOTED ON ELEVATIONS.
2. SEE FINISH SCHEDULE ON A6-01 FOR ALL FINISH MATERIALS.

WALL MATERIAL

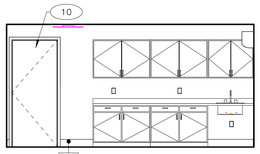
MARK	DESCRIPTION
MFR	PRE-FINISHED COOLER/FREEZER BOX PANELS (PER MFR.)
FRP	FIBER REINFORCED PANELS - HT. PER INT. ELEVS.
PLY	1/2" CDX PLYWD.

KEYNOTES - SUPPORT AREAS

MARK	NOTE
1	REFRIGERATION COMPRESSOR RACK - SEE REFRIGERATION
2	ROOF ACCESS LADDER. COORDINATE LOCATION WITH ROOF JOIST SPACING.
4	PROVIDE MINIMUM 42" GUARDRAIL
8	G.C. TO PROVIDE (2) 4'x8' PLYWOOD SHEETS FOR MOUNTING OF REFERENCE DATA DRAWINGS - PER G.O.I. P.M.
9	SURFACE MOUNTED FIRE EXTINGUISHER - REFER TO CODE DATA SHEET FOR ADDITIONAL INFORMATION
10	DOOR. SEE DOOR SCHEDULE
14	LOCKERS BY G.O.I.
15	REFRIGERATOR BY G.O.I., G.C. TO PROVIDE POWER
16	36"L GRAB BAR, SEE R.R. ACCESSORIES SCHEDULE ON A4-01 FOR MORE INFO.
17	42"L GRAB BAR, SEE R.R. ACCESSORIES SCHEDULE ON A4-01 FOR MORE INFO.
18	18"L GRAB BAR, SEE R.R. ACCESSORIES SCHEDULE ON A4-01 FOR MORE INFO.
19	ACCESSIBLE WATER CLOSET. SEE PLUMBING
20	ACCESSIBLE LAVATORY. SEE PLUMBING
21	PROVIDE THERMAL SHIELD (OR EQUAL) AT ALL EXPOSED WATER LINES & DRAIN PIPES UNDER LAVATORIES
22	SURFACE MOUNTED SEAT COVER DISPENSER. BOBRICK B-221 OR EQUAL
23	SURFACE MOUNTED TOILET PAPER DISPENSER. BOBRICK B-3888 OR EQUAL
24	SURFACE MOUNTED SOAP DISPENSER (MANUAL). BOBRICK B-2111 OR EQUAL
25	24" X 36" MIRROR W/ FRAME
26	DYSON AIRBLADE V, MODEL AB12 HAND DRYER. SEE ELECTRICAL
27	ACCESSIBLE HI-LO DRINKING FOUNTAIN. SEE PLUMBING
28	SANITARY NAPKIN DISPOSAL. BOBRICK B-254 OR EQUAL
29	BABY CHANGING STATION - SEE A4-01 FOR RR ACCESSORIES SCHEDULE



20 BREAK ROOM
1/4" = 1'-0"



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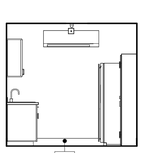

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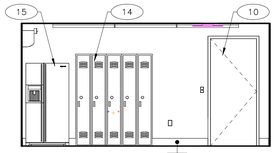

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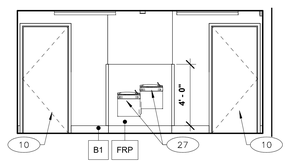
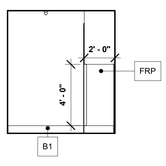


16 HALLWAY
1/4" = 1'-0"



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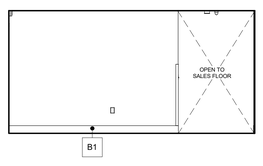

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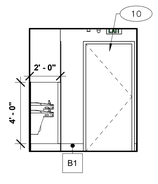

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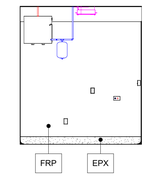
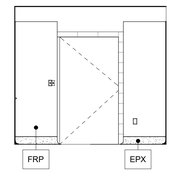


21 BOTTLE REMEPTION
1/4" = 1'-0"



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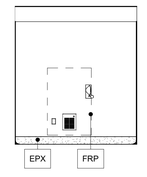

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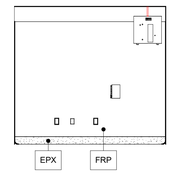

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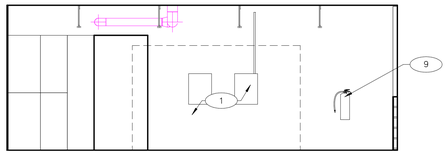

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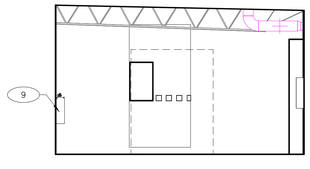
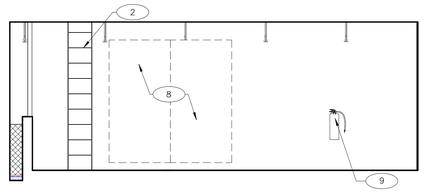
1/4" = 1'-0"



11 EQUIPMENT ROOM
1/4" = 1'-0"



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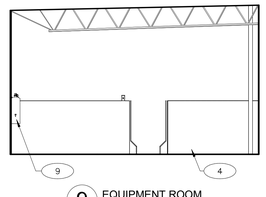

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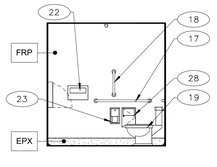
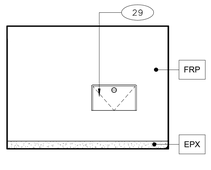


8 RESTROOM #1
1/4" = 1'-0"



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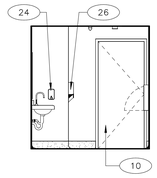

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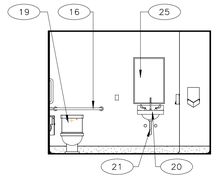

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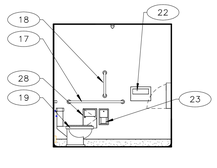
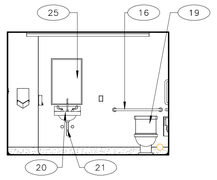
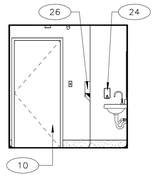
1/4" = 1'-0"



4 RESTROOM #2
1/4" = 1'-0"



3 RESTROOM #2
1/4" = 1'-0"



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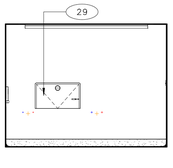
1/4" = 1'-0"



1 RESTROOM #2
1/4" = 1'-0"

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PROJECT TEAM

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STATE OF OREGON

PROFESSIONAL IN CHARGE
J. MALLEK
PROJECT MANAGER
J. MALLEK
QUALITY CONTROL
J. MALLEK
DRAWN BY
M. BYRNE

PROJECT NAME

GROCERY OUTLET

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
20241247.0

SHEET TITLE

INTERIOR ELEVATION - SUPPORT AREAS

SHEET NUMBER

A2-12

Last Modified:3/4/2025 11:37:19 AM Drawing Name:C:\Users\dpopa\Documents\GO Central Point OR- Arch- R22_dpopa@greenbergfarrow.com.rvt

GENERAL NOTES

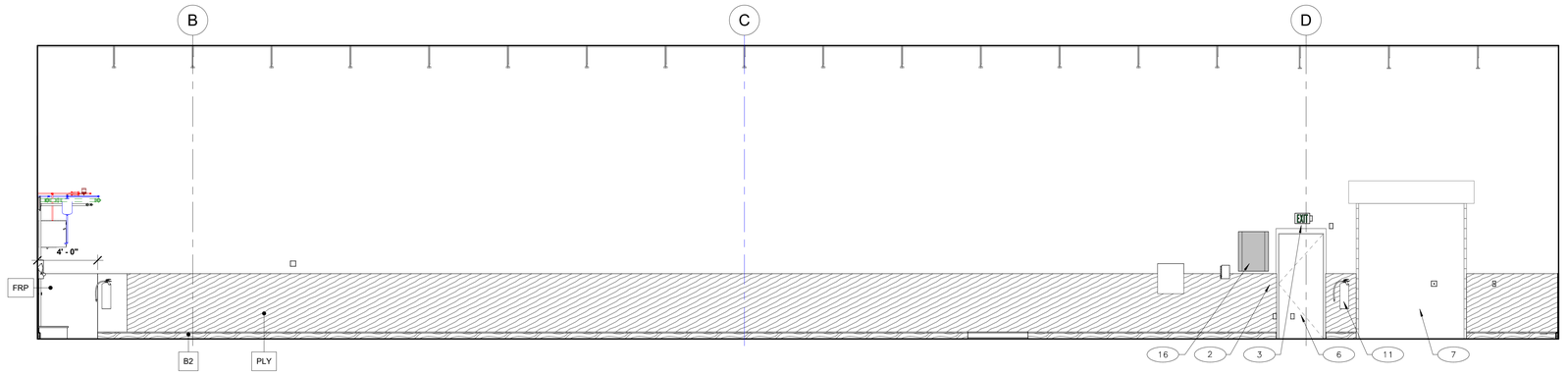
1. SEE ROOM FINISH SCHEDULE ON SHEET A6-01 FOR ALL FLOOR, WALL & CEILING MATERIALS NOT NOTED ON ELEVATIONS.
2. SEE FINISH SCHEDULE ON A6-01 FOR ALL FINISH MATERIALS.

WALL MATERIAL

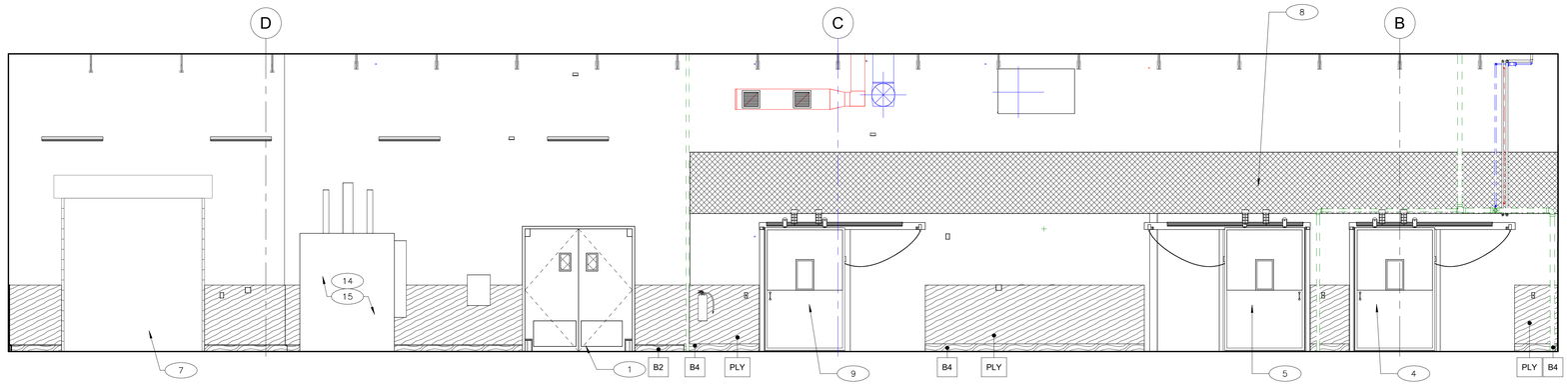
MARK	DESCRIPTION
MFR	PRE-FINISHED COOLER/FREEZER BOX PANELS (PER MFR.)
FRP	FIBER REINFORCED PANELS - HT. PER INT. ELEVS.
PLY	1/2" CDX PLYWD.

KEYNOTES - STOCK AREA

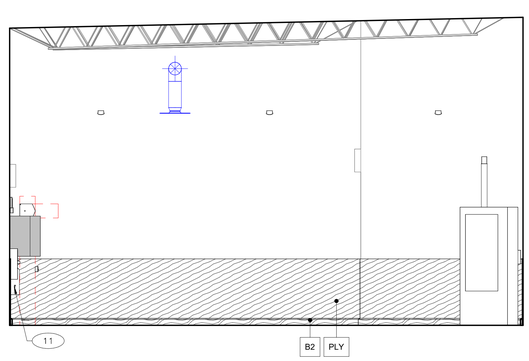
MARK	NOTE
1	TRAFFIC IMPACT DOORS - SEE DOOR SCHEDULE
2	TACTILE EXIT SIGNAGE
3	ILLUMINATED EXIT SIGN - SEE ELECTRICAL SHEETS
4	DAIRY COOLER BOX PER SHOP DRAWINGS
5	MEAT COOLER BOX PER SHOP DRAWINGS
6	DOOR. SEE DOOR SCHEDULE
7	ROLL-UP DOOR - SEE SCHEDULE
8	PROVIDE METAL STUDS ABOVE DAIRY AND MEAT COOLERS WITH WWF SCREENING
9	FREEZER WALK-IN BOX PER SHOP DRAWINGS
10	ACCESS LADDER TO ELECTRICAL PLATFORM
11	SURFACE MOUNTED FIRE EXTINGUISHER - REFER TO CODE DATA SHEET FOR ADDITIONAL INFORMATION
12	SELF-CONTAINED EMERGENCY EYEWASH -REFER TO PLUMBING SHEETS FOR MORE INFO.
13	PROVIDE MINIMUM 4'-0" OF CLEARANCE IN FRONT OF ACCESS LADDER.
14	BALER (FOR CARDBOARD)
15	BALER DISCONNECT
16	FORKLIFT CHARGER - REFER TO ELECTRICAL SHEETS FOR MORE INFO.



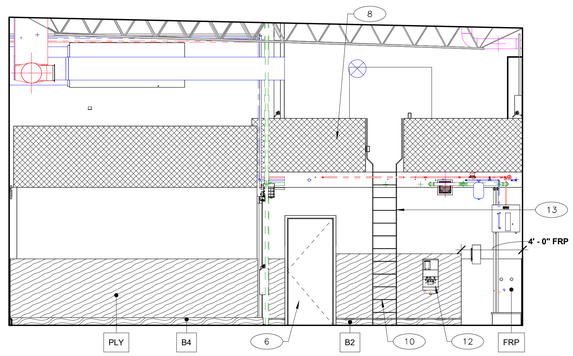
4 STOCK ROOM
1/4" = 1'-0"



3 STOCK ROOM
1/4" = 1'-0"



2 STOCK ROOM
1/4" = 1'-0"



1 STOCK ROOM
1/4" = 1'-0"

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M. BYRNE

PROJECT NAME
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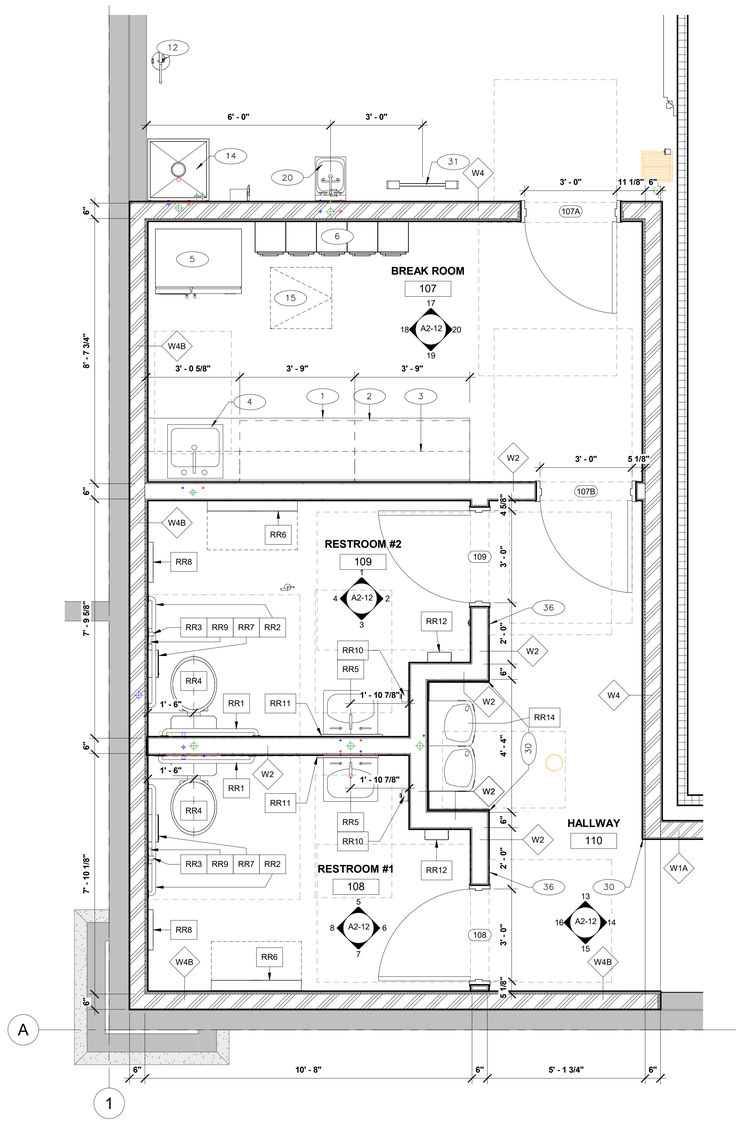
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0

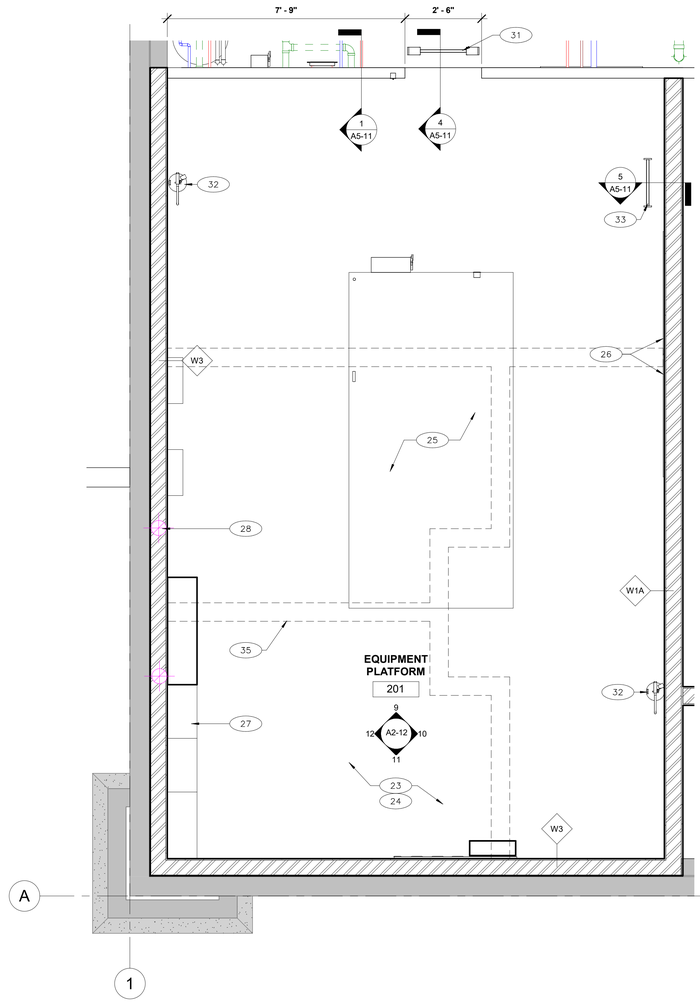
SHEET TITLE
INTERIOR ELEVATIONS - STOCK AREA

SHEET NUMBER
A2-13

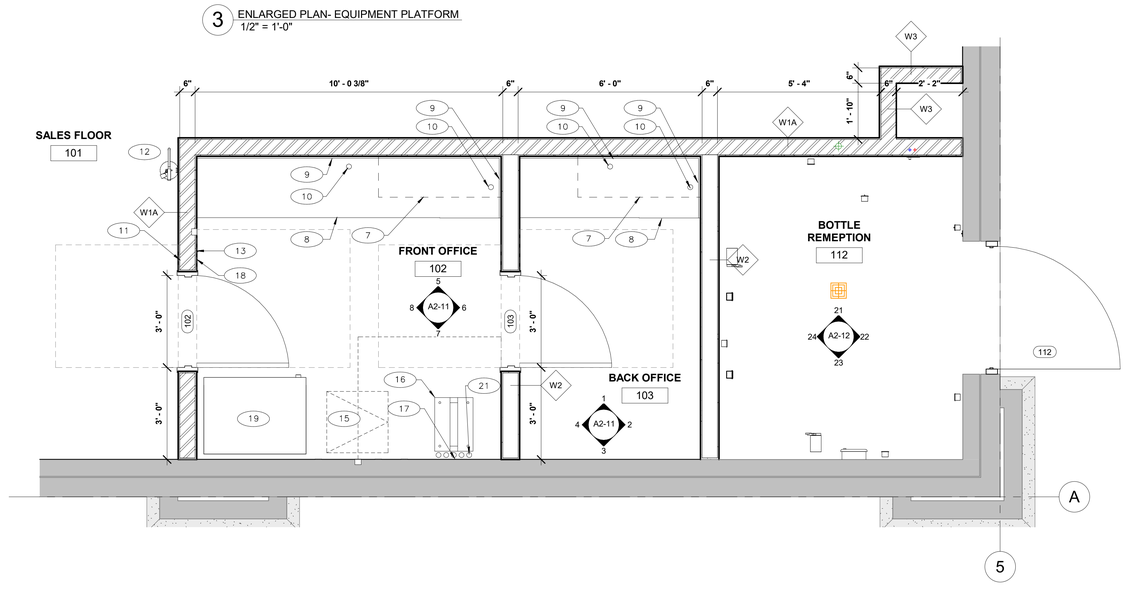
Last Modified: 3/4/2025 11:37:22 AM Drawing Name: C:\Users\jbaldwin\Documents\GO Central Point_08+_Arch+_R22_dbaldwin@greenbergfarrow.com.rvt



2 ENLARGED PLAN- RESTROOMS, BREAKROOM
1/2" = 1'-0"



3 ENLARGED PLAN- EQUIPMENT PLATFORM
1/2" = 1'-0"



1 ENLARGED PLAN- FRONT & BACK OFFICE
1/2" = 1'-0"

RR ACCESSORIES SCHEDULE (ABBREVIATED)

MARK	DESCRIPTION
RR1	GRAB BAR- 36"
RR2	GRAB BAR- 42"
RR3	GRAB BAR- 18"
RR4	WATER CLOSET- FLOOR MOUNT
RR5	LAVATORY- WALL HUNG
RR6	BABY CHANGING STATION
RR7	SANITARY NAPKIN DISPOSAL
RR8	SEAT COVER DISPENSER
RR9	TOILET TISSUE DISPENSER
RR10	SOAP DISPENSER
RR11	MIRROR
RR12	HAND DRYER
RR14	DRINKING FOUNTAIN- BI-LEVEL

WALL LEGEND

SEE SHEET A5-02 FOR WALL TYPES AND INSULATION/FINISHES

- = EXISTING WALLS TO REMAIN (FOR USE ON TI PROJECTS)
- = LOAD-BEARING / SHEAR WALLS (REFER TO STRUCTURAL SHEETS)
- = FULL HEIGHT PARTITIONS (TO BOTTOM OF ROOF DECK)
- = PARTITIONS (TO BOTTOM OF CEILING)
- = COOLER WALLS (BY MANUF.)

KEYNOTES - ENLARGED PLANS

MARK	NOTE
1	P.LAM. COUNTERTOP W/ 4" INTEGRAL BACK SPLASH
2	P.LAM. FACED BASE CABINETS - DRAWERS/HINGED FACINGS AS SHOWN
3	P.LAM. FACED UPPER CABINETS W/ ADJUSTABLE SHELVES
4	SINGLE BASIN SINK W/ FAUCET. REFER TO PLUMBING DRAWINGS
5	REFRIGERATOR BY G.O.I.
6	LOCKERS BY G.O.I.
7	(3) ROWS OF 4'-0" X16" DP. LAMINATE SHELVING. PROVIDE ADJUSTABLE WALL BRACKETS AND CHANNELS
8	+ 30" HIGH PLASTIC LAMINATE COUNTERTOP WITH PERMANENT HEAVY DUTY METAL BRACES
9	DEDICATED 20 AMP CIRCUIT PLUG STRIP WITH SIMPLEX PLUGS @ 12" O.C. MOUNT 12" ABOVE COUNTERTOP.
10	COUNTERTOP GROMMET - 2" DIA. PLASTIC GROMMET, WHITE FINISH. LOCATE GROMMET HOLES AT CENTER OF EACH LENGTH OF COUNTERTOP. VERIFY LOCATIONS WITH G.O.I. P.M.
11	ROOM IDENTIFICATION SIGNAGE PER ACCESSIBILITY SIGNAGE REQUIREMENTS
12	SURFACE MOUNTED FIRE EXTINGUISHER - REFER TO CODE DATA SHEET FOR ADDITIONAL INFORMATION
13	REFRIGERATION CONTROL PANEL. REFER TO 'R' SHEETS
14	MOP SINK - REFER TO PLUMBING DRAWINGS
15	24" X 24" ATTIC ACCESS PANEL ABOVE. COORDINATE EXACT LOCATION IN FIELD
16	DATA RACK AND SERVER, BY G.O.I.
17	LOCATE (2) OUTLETS, 2'-6" FROM END WALL, (1) AT 16" A.F.F. AND (1) AT 48" A.F.F.
18	OUTLET FOR TIME CLOCK. REFER TO ELECTRICAL DRAWINGS.
19	SAFE.
20	HANDSINK WITH EYE WASH - REFER TO PLUMBING DRAWINGS
21	(5) CONDUITS, 26" FROM BACK WALL TO FRONT OF DATA RACK ABOVE CEILING TO +7'-2" A.F.F. (1) VOICE, (1) DATA, (1) CAMERA, (1) SPEAKER
23	PLATFORM FLOOR FRAMING, REFER TO STRUCTURAL DRAWINGS.
24	PLATFORM FLOOR SHEATHING PER STRUCTURAL DRAWINGS.
25	REFRIGERATION COMPRESSOR RACK W/ DRIP PAN. REFER TO 'R' SHEETS FOR INFORMATION. REFER TO STRUCTURAAL DRAWINGS FOR ATTACHMENT TO FLOOR DECK.
26	G.C. TO PROVIDE (2) 4'x8' PLYWOOD SHEETS FOR MOUNTING OF REFERENCE DATA DRAWINGS. LOCATE PER G.O.I. P.M.
27	ELECTRICAL EQUIPMENT - SEE E-SHEETS
28	PLUMBING VENT PIPE FROM RESTROOMS BELOW. REFER TO PLUMBING DRAWINGS.
30	STAINLESS STEEL CORNER GUARD (CG1) - REFER TO FINISH SCHEDULE ON A6-01 FOR SPECIFICATION.
31	WALK THROUGH PLATFORM ACCESS LADDER FROM GROUND FLOOR - SEE SHEET A5-11 FOR MORE INFO.
32	SURFACE MOUNTED FIRE EXTINGUISHER - REFER TO CODE DATA SHEET FOR ADDITIONAL INFORMATION
33	ROOF ACCESS LADDER. COORDINATE LOCATION WITH ROOF JOIST SPACING - SEE SHEET A5-11 FOR MORE INFO.
35	LINE OF WALL BELOW (SHOWN DASHED).
36	ROOM IDENTIFICATION SIGNAGE PER ACCESSIBILITY SIGNAGE REQUIREMENTS

GENERAL NOTES

GENERAL OFFICE NOTES:

1. G.C. TO COORDINATE AND VERIFY LOCATIONS OF ALL OFFICE EQUIPMENT WITH GROCERY OUTLET PROJECT MANAGER PRIOR TO INSTALLATION.
2. ALL DEVICE PLUGS AND CONVENIENCE OUTLETS SHALL BE AT ACCESSIBLE HEIGHTS.
3. ALL J-BOXES/ JACKS TO BE LOCATED UNDER THE COUNTERS UNLESS NOTED OTHERWISE.
4. REFER TO ACCESSIBILITY SHEET G5-01 FOR MOUNTING HEIGHTS AND REQUIRED FLOOR CLEARANCES
5. PROVIDE 3/4" PLYWOOD ABOVE CEILING FRAMING AT OFFICES, 1'-0" AWAY FROM WALLS.
6. GC TO PROVIDE A FULL-SIZED RECORD SET OF CONSTRUCTION DRAWINGS ABOVE THE OFFICE CEILING, NEAR THE CEILING ACCESS PANEL. INSTALL A PVC PIPE MOUNTED TO NEARBY STUD FRAMING AND PLACE THE ROLL OF CONSTRUCTION DRAWINGS IN THE PIPE.

GENERAL RESTROOM NOTES:

1. REFER TO ACCESSIBILITY SHEET G5-01 FOR MOUNTING HEIGHTS, LOCATIONS AND REQUIRED FLOOR CLEARANCES OF FIXTURES AND ACCESSORIES.
2. REFER TO SHEET G5-01 FOR MOUNTING HEIGHTS AND REQUIRED ACCESSIBILITY CLEARANCE INFORMATION.
3. SEE FULL RESTROOM ACCESSORIES SCHEDULE ON SHEET A6-01. ALL FIXTURES AND ACCESSORIES CAN BE SUBSTITUTED WITH AN APPROVED EQUAL.

GENERAL BREAKROOM NOTES:

1. REFER TO ACCESSIBILITY SHEET G5-01 FOR MOUNTING HEIGHTS AND REQUIRED FLOOR CLEARANCES.
2. WHERE EMPLOYEE LOCKERS ARE PROVIDED AT LEAST 5%, BUT NOT LESS THAN (1), SHALL COMPLY WITH APPLICABLE ACCESSIBILITY REQUIREMENTS FOR CLEAR FLOOR SPACE, REACH RANGE, AND OPERABLE PARTS.

GENERAL EQUIPMENT PLATFORM NOTES:

1. ALL EXPOSED PIPES ALONG WALLS TO BE STRAPPED TO WALLS.
2. EQUIPMENT PLATFORM FLOOR FRAMING TO BE INSTALLED WITH R-19 ACOUSTICAL / SOUND ATTENUATION BATTS OVER THE BREAK ROOM.

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97502

PROJECT NUMBER
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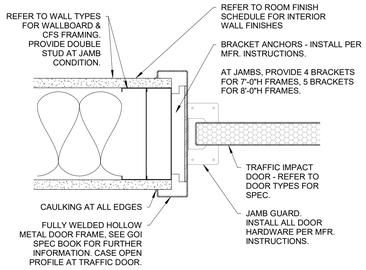
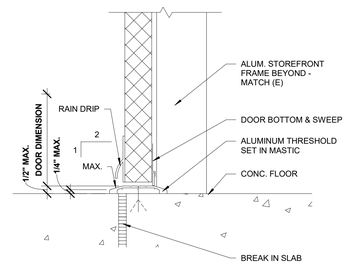
SHEET TITLE
ENLARGED PLANS

SHEET NUMBER
A4-01

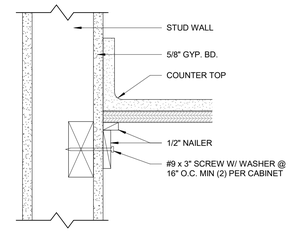
Last Modified:3/4/2025 11:37:25 AM Drawing Name:C:\Users\jbyrne\Documents\20 Central Point, OR- Archi- R22_dbpbyrne@greenbergfarrow.com.rvt



22 DETAIL- TRAFFIC (IMPACT) DOOR JAMB
3" = 1'-0"



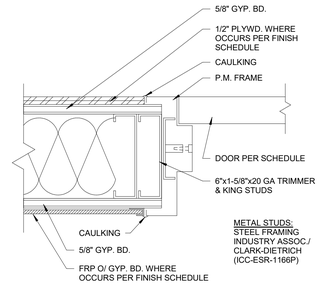
12 DETAIL- METAL DOOR THRESHOLD
3" = 1'-0"



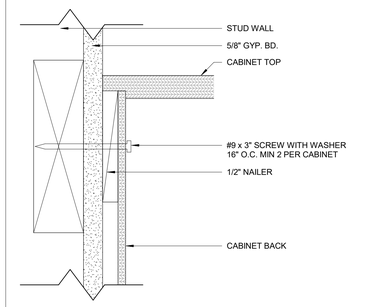
7 DETAIL- CABINET ANCHORAGE @ COUNTER
3" = 1'-0"

GENERAL NOTES

1. SEE INTERIOR FINISHES FOR ADDITIONAL INFORMATION

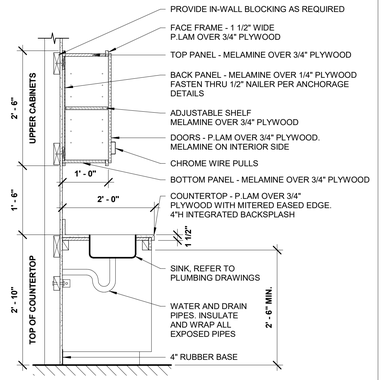


16 DETAIL- INTERIOR DOOR JAMB (HEAD SIM.)
3" = 1'-0"

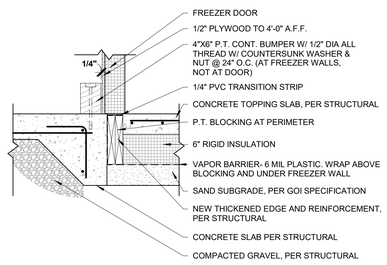


6 DETAIL- CABINET ANCHORAGE AT TOP
6" = 1'-0"

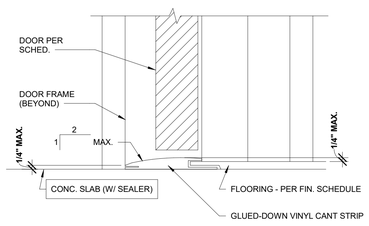
NOTES
- COUNTERTOP DEPTH & BASE / UPPER CABINET SIZES TO BE STANDARD SIZES, U.N.O. - REFER TO ENLARGED PLAN FOR LENGTHS OF CABINETS.
- REFER TO FINISH SCHEDULE ON A6-01 FOR PLASTIC LAMINATE SPECIFICATION.
- MELAMINE TO BE USED FOR ALL INTERIOR CABINERY SURFACES AND WHERE NOTED ON THE DETAIL BELOW - COLOR TO BE WHITE



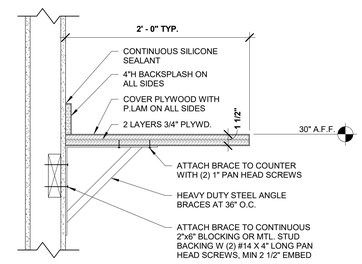
2 SECTION- CASEWORK @ SINK
3/4" = 1'-0"



24 FREEZER SLAB DETAIL
1" = 1'-0"

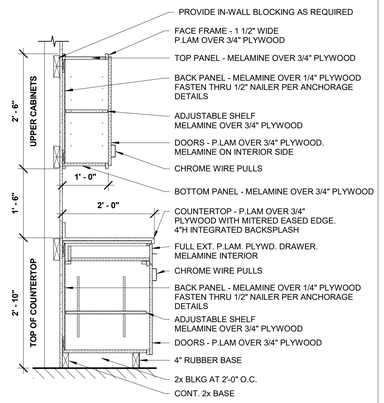


9 DETAIL- TYPICAL FLOOR TRANSITION
3" = 1'-0"

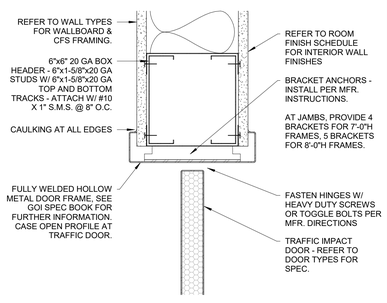


4 DETAIL- OFFICE COUNTER
1 1/2" = 1'-0"

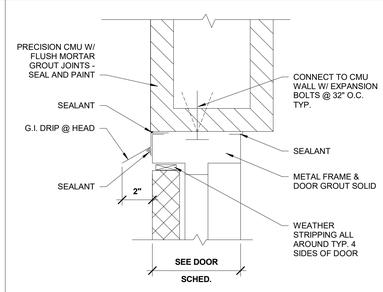
NOTES
- COUNTERTOP DEPTH & BASE / UPPER CABINET SIZES TO BE STANDARD SIZES, U.N.O. - REFER TO ENLARGED PLAN FOR LENGTHS OF CABINETS.
- REFER TO FINISH SCHEDULE ON A6-01 FOR PLASTIC LAMINATE SPECIFICATION.
- MELAMINE TO BE USED FOR ALL INTERIOR CABINERY SURFACES AND WHERE NOTED ON THE DETAIL BELOW - COLOR TO BE WHITE



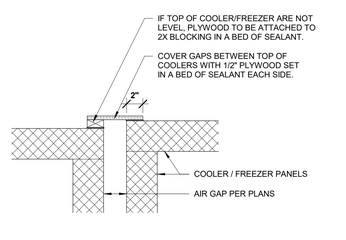
1 SECTION- CASEWORK @ COUNTER
3/4" = 1'-0"



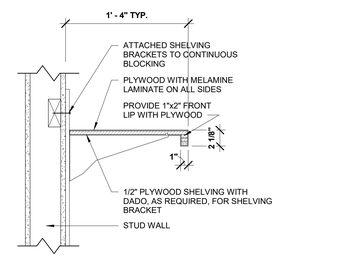
23 DETAIL- TRAFFIC (IMPACT) DOOR HEAD
3" = 1'-0"



18 DETAIL- METAL DOOR HEAD (JAMB SIM.)
3" = 1'-0"



8 DETAIL- COOLER GAP AT TOP
1 1/2" = 1'-0"



3 DETAIL- ADJUSTABLE SHELVES
1 1/2" = 1'-0"

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PROJECT TEAM

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED ARCHITECT
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M. BYRNE

PROJECT NAME

GROCERY OUTLET

4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0

SHEET TITLE

HEAD/JAMB AND CASEWORK DETAILS

SHEET NUMBER

A5-01

Last Modified: 3/4/2025 11:37:26 AM Drawing Name: C:\Users\dposgay\Documents\OGI Central Point 08- Archi- R22_dposgay@greenbergfarrow.com.rvt

CEILING JOIST SIZE TABLE

CEILING JOIST SIZE & SPACING		MAX. ALLOWABLE JOIST SPAN
600S125-33 AT 24" O.C.		8'-1"
600S137-33 AT 24" O.C.		9'-2"
600S162-33 AT 24" O.C.		10'-5"
600S162-43 AT 24" O.C.		11'-2"
600S162-43 AT 16" O.C.		12'-5"
600S162-43 AT 12" O.C.		13'-5"
600S137-33 AT 16" O.C.		14'-6"
600S137-43 AT 16" O.C.	WITH	15'-0"
600S162-33 AT 16" O.C.	MID-SPAN	16'-8"
600S162-43 AT 16" O.C.	BRACING	17'-11"
600S162-43 AT 12" O.C.		19'-4"

GENERAL NOTES - CEILING JOISTS

1. THIS TABLE IS FOR INTERIOR CEILINGS ONLY (L/240 WITH 10 PSF MAXIMUM VERTICAL LOADING), BRITTLE FINISHES. CEILINGS ARE NOT INTENDED TO BE OCCUPIED OR LOADED FROM THE TOP SIDE. SEE STRUCTURAL FOR PLATFORM OR MEZZANINE JOISTS.
2. JOIST SIZED PER CURRENT AISI SSMA SPECIFICATIONS. Fy = 33 KSI FOR 18 GAGE AND LIGHTER (Fy = 50 KSI OPTIONAL).
3. WEB STIFFENERS ARE NOT REQUIRED AT JOIST ENDS. WEB PUNCHOUTS SHALL NOT OCCUR WITHING 12" OF BEARING. MINIMUM BEARING WIDTH OF 1" IS REQURIED.
4. SINGLE LAYER OF 1/2" GYPSUM BOARD SHALL BE INSTALLED WITH LONG DIRECTION PERPENDICULAR TO FRAMING ON BOTTOM SIDE OF JOISTS USING MINIMUM NO.6 TYPE 'S' DRYWALL SCREWS SPACED AT A MAXIMUM OF 12" O.C.
5. WHERE REQUIRED, PROVIDE MID-SPAN LATERAL BRACING PER DETAILS SHOWN BELOW. BRACING TO CONSIST OF 18 GAGE COLD-ROLLED CHANNEL (CRC) OR 2 1/2" X 18 GAGE MINIMUM COLD-FORMED STEEL TRACK.

GENERAL NOTES - WALL TYPES

1. REFER TO WALL LEGEND AND WALL TYPES FOR STUD SIZING INFORMATION.
2. METAL STUDS TO CONFORM TO THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) ICC REPORT (ESR-3064P).
3. REFER TO SHEET A5-02 FOR PARTITION DETAILS.
4. PROVIDE BLOCKING FOR ALL CASEWORK, FIXTURES, AND ACCESSORIES PER MANUFACTURER'S SPECIFICATIONS.
5. SEE ROOM FINISH SCHEDULE FOR PAINTING REQUIREMENTS.
6. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL 'WET' AREAS (RESTROOMS, DRINKING FOUNTAIN, ETC.)
7. EXTEND METAL STUD FRAMING TO B.O. CEILING JOISTS OR ROOF DECK. REFER TO DETAIL 4/A5-02 FOR INFORMATION.
8. EXTEND SHEATHING TO B.O. HARD CEILING.
9. GYP. BD. TO BE TAPED AND SANDED TO A SMOOTH FINISH.
10. GYP. BD. CONTROL JOINTS TO BE ADDED AT TRAFFIC DOORS, WHERE CURTAIN WALL MEETS ROOM SEPARATION WALL AT DAIRY COOLER, AND TO ACCOMODATE GRAPHIC. 30'-0" O.C. MAX. GC TO COORDINATE WITH GO PM AND GRAPHICS VENDOR.

METAL FLOOR AND CEILING RUNNERS

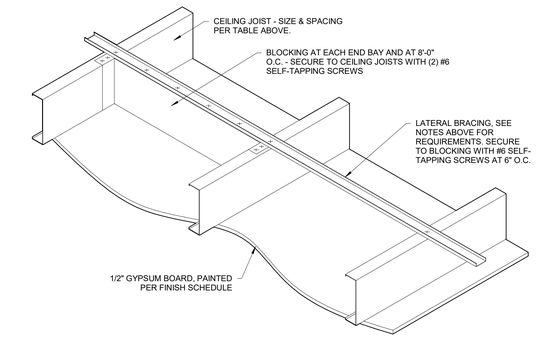
METAL FLOOR AND CEILING RUNNERS (BOTTOM AND TOP TRACKS)

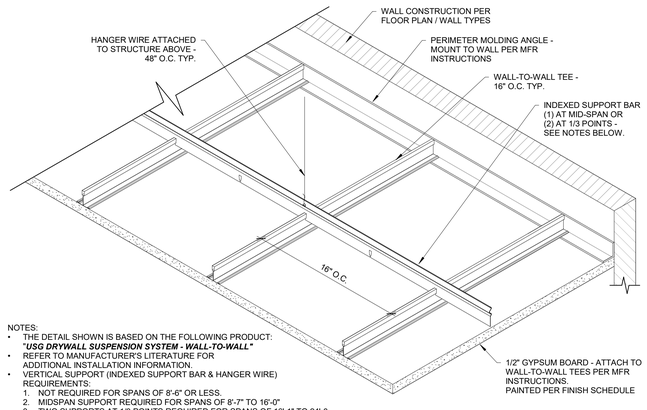
1. DRYWALL TRACK: FORMED FROM COLD FORMED STEEL, GA. TO MATCH WALL STUDS (20 U.S. STD GA. MINIMUM). WIDTH TO SUIT SHAPED METAL STUDS. 1 1/4" FLANGES MINIMUM TYPICAL FOR BOTTOM AND TOP RUNNERS (TRACKS).
2. DEFLECTION TRACK OR HEAD OF WALL CONNECTIONS AT RATED PARTITIONS SHALL CONFIRM TO UL #2079 FOR CYCLE MOVEMENT. PROVIDE POSITIVE MECHANICAL CONNECTION OF FRAMING TO STRUCTURE, ALLOWING FOR VERTICAL MOVEMENT WITHIN CONNECTIONS. MINIMUM OF 0.0312 (20 GA.) COLD FORMED STEEL. SEE STRUCTURAL DRAWINGS FOR DEFLECTION TRACK SIZE AND ATTACHMENT TO STRUCTURE.
   A. PRODUCT: CLARKFIETRICH| [BLAZEFRAME DSL] | [MAXTRAK] SLOTTED DEFLECTION TRACK AS MANUFACTURERED BY THE STEEL NETWORK, VERTICLIP OR VERTITRACK OR EQUAL MADE BY METAL-LITE INC.
   B. FIRETRAK (INCLUDING STUD CLIPS) BY FIRETRAK CORP. OR EQUAL MADE BY METAL-LITE INC.

STUD SIZE TABLE

STUD SIZE & SPACING	MAX HEIGHT
250S125-33 (20 GA) AT 24" O.C.	10'-6"
350S125-27 (22 GA) AT 24" O.C.	12'-9"
362S125-33 (20 GA) AT 24" O.C.	14'-0"
400S125-33 (20 GA) AT 24" O.C.	15'-1"
400S162-33 (20 GA) AT 24" O.C.	16'-7"
400S162-43 (18 GA) AT 24" O.C.	18'-0"
600S137-33 (20 GA) AT 24" O.C.	21'-9"
600S137-43 (18 GA) AT 24" O.C.	23'-9"
600S162-33 (20 GA) AT 16" O.C.	26'-0"
600S162-43 (18 GA) AT 16" O.C.	28'-4"
600S162-54 (16 GA) AT 16" O.C.	30'-5"
800S137-43 (18 GA) AT 16" O.C.	34'-4"
800S162-54 (16 GA) AT 16" O.C.	38'-4"
800S162-54 (16 GA) AT 12" O.C.	42'-3"

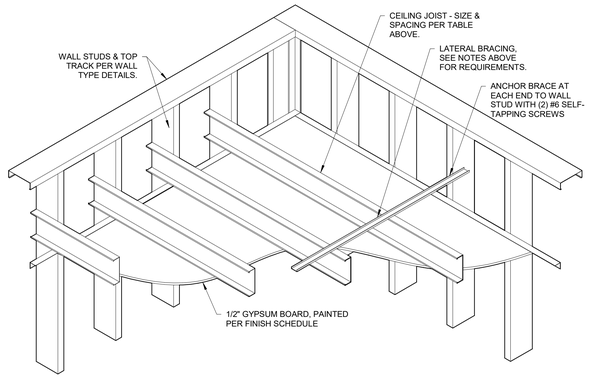
NOTES:
1. THIS TABLE IS FOR INTERIOR NON-BEARING WALLS ONLY (L/240 WITH 5 PSF LATERAL), BRITTLE FINISHES. SEE STRUCTURAL FOR BEARING AND/OR SHEAR WALLS.
2. STUDS SIZED PER CURRENT AISI SSMA SPECIFICATIONS. Fy = 33 KSI FOR 18 GAGE AND LIGHTER (Fy = 50 KSI OPTIONAL) AND Fy = 50 KSI FOR 16 GAGE AND HEAVIER.
3. WEB STIFFENERS NOT REQUIRED TOP AND BOTTOM. WEB PUNCHOUTS SHALL NOT OCCUR WITHIN 12" OF BEARING.
4. SINGLE LAYER OF 5/8" GYPSUM BOARD SHALL BE INSTALLED IN THE VERTICAL ORIENTATION TO BOTH SIDES OF WALL OVER FULL-HEIGHT USING MINIMUM NO. 6 TYPE 'S' DRYWALL SCREWS SPACED AT A MAXIMUM OF 12" O.C.



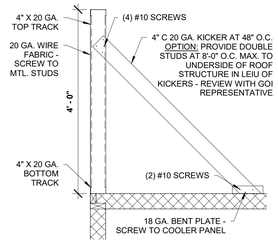


NOTES:
- THE DETAIL SHOWN IS BASED ON THE FOLLOWING PRODUCT: ***"USG DRYWALL SUSPENSION SYSTEM - WALL-TO-WALL"***
- REFER TO MANUFACTURER'S LITERATURE FOR ADDITIONAL INSTALLATION INFORMATION.
- VERTICAL SUPPORT (INDEXED SUPPORT BAR & HANGER WIRE) REQUIREMENTS:
  1. NOT REQUIRED FOR SPANS OF 8'-6" OR LESS.
  2. MIDSPAN SUPPORT REQUIRED FOR SPANS OF 8'-7" TO 16'-0"
  3. TWO SUPPORTS AT 1/3 POINTS REQUIRED FOR SPANS OF 16'-1" TO 24'-0
- THE FOLLOWING SYSTEM SHALL NOT BE USED FOR CEILINGS THAT SPAN GREATER THAN 24'-0".

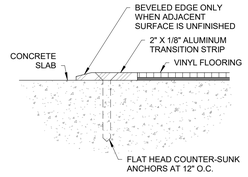
14 SUSPENDED GYP BD CEILING
3" = 1'-0"



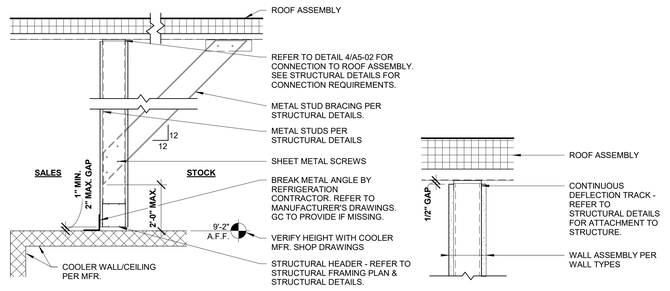
13 TYPICAL GYP. BD. CEILING ASSEMBLY
1" = 1'-0"



12 GUARDRAIL AT COOLER / FREEZER BOXES
3/4" = 1'-0"

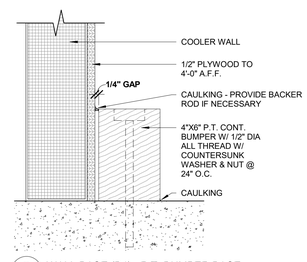


11 DETAIL - VINYL FLOORING TRANSITION
6" = 1'-0"

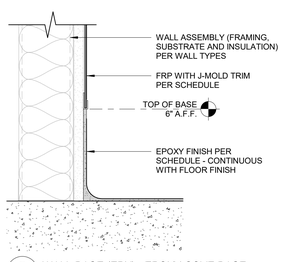


10 SECTION - PARTITION WALL AT DAIRY CASE
3/4" = 1'-0"

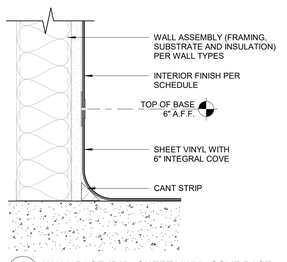
4 TOP TRACK CONNECTION
1 1/2" = 1'-0"



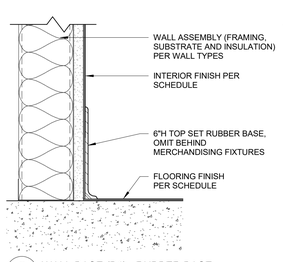
9 WALL BASE (B4) - P.T. BUMPER BASE
3" = 1'-0"



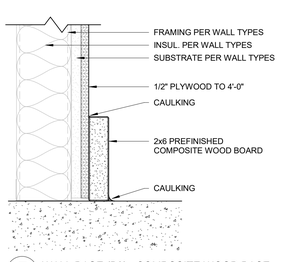
8 WALL BASE (EPX) - EPOXY COVE BASE
3" = 1'-0"



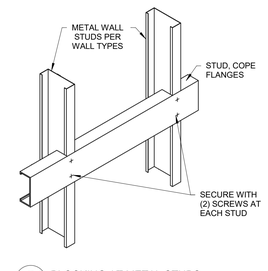
7 WALL BASE (B3) - SHEET VINYL COVE BASE
3" = 1'-0"



6 WALL BASE (B1) - RUBBER BASE
3" = 1'-0"

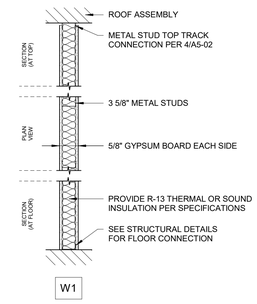


5 WALL BASE (B2) - COMPOSITE WOOD BASE
3" = 1'-0"

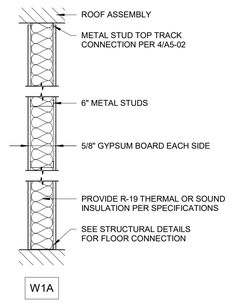


2 BLOCKING AT METAL STUDS
12" = 1'-0"

WALL TYPES



W1



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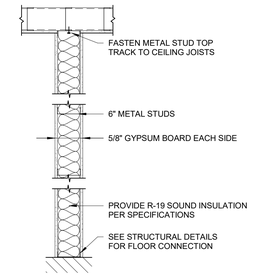

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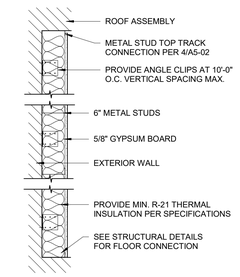
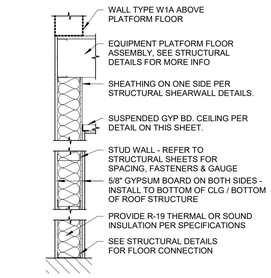
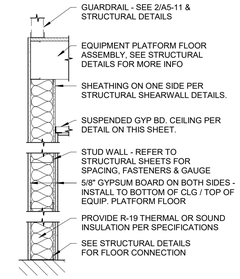


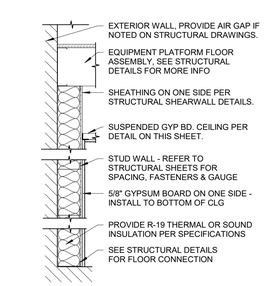
W3



W4 SEE STRUCTURAL SHEARWALL DETAILS FOR FURTHER INFO



W4A SEE STRUCTURAL SHEARWALL DETAILS FOR FURTHER INFO



W4B SEE STRUCTURAL SHEARWALL DETAILS FOR FURTHER INFO

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PROJECT TEAM

ISSUE/REVISION RECORD

DATE	DESCRIPTION
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PROFESSIONAL SEAL

REGISTERED ARCHITECT
JANEL MALLEK
ARLINGTON HEIGHTS, IL
ARI-14901
EXPIRATION DATE: 11/30/2026
STATE OF OREGON

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PROJECT MANAGER
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QUALITY CONTROL
J. MALLEK
DRAWN BY
M. BYRNE

PROJECT NAME

GROCERY OUTLET

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CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0

SHEET TITLE

PARTITION TYPES, INFORMATION, AND DETAILS

SHEET NUMBER

A5-02

Last Modified: 3/4/2025 11:37:27 AM Drawing Name: C:\Users\jbaldwin\Documents\GO Central Point, OR- Arch- R22_docuguard@greenbergfarrow.com.rvt

GENERAL NOTES

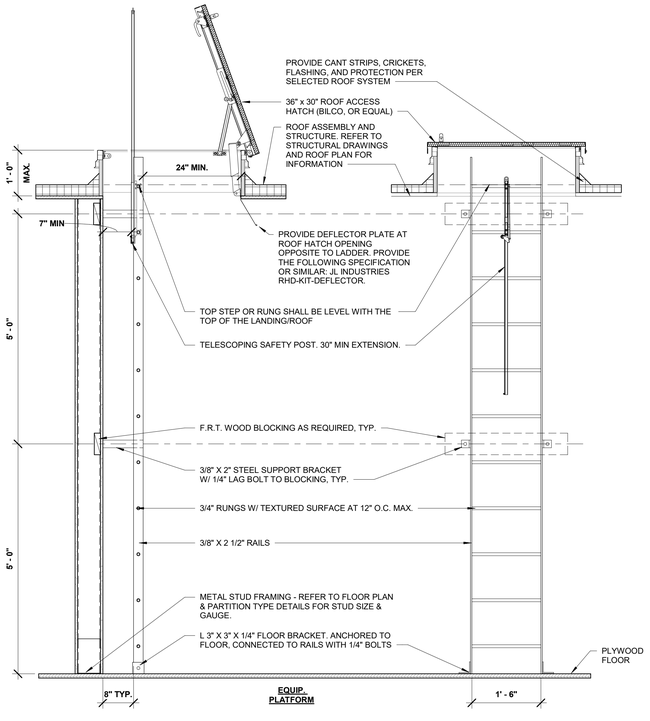
1. REFER TO STRUCTURAL DRAWINGS FOR SIZE AND ADDITIONAL INFORMATION ABOUT ALL FRAMING MEMBERS
2. LADDER TO BE SHOP PRIMED AND (2) FIELD COATS ENAMEL (SAFETY YELLOW)
3. LADDER SHALL MEET ALL OSHA STANDARDS AND REQUIREMENTS LISTED BELOW:

OSHA 1910.23 - FIXED LADDERS

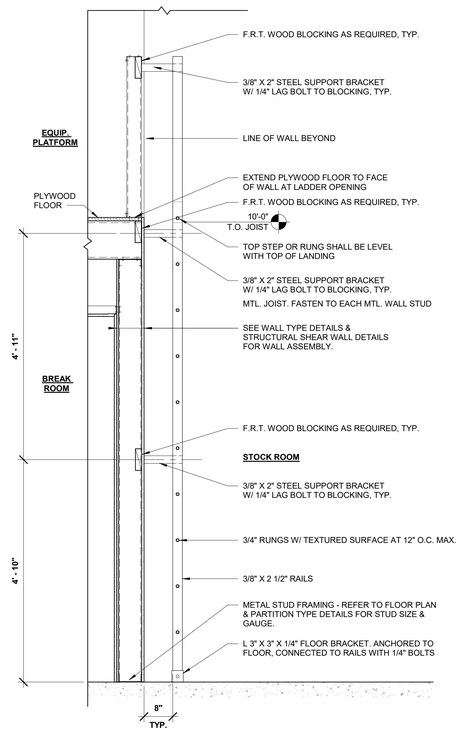
IF THE TOTAL LENGTH OF THE CLIMB ON A NEW FIXED LADDER EQUALS OR EXCEEDS 24 FEET, THE LADDER MUST BE EQUIPPED WITH A PERSONAL FALL ARREST SYSTEM OR A LADDER SAFETY SYSTEM IN ACCORDANCE WITH 1910.28(B)(9)(I)(B). A LADDER SAFETY SYSTEM USUALLY CONSISTS OF A CARRIER; A SAFETY SLEEVE, WHICH IS A MOVING COMPONENT THAT TRAVELS ON THE CARRIER; A LANYARD; CONNECTORS; AND A BODY HARNESS.

FIXED LADDERS MUST MEET THE FOLLOWING REQUIREMENTS:

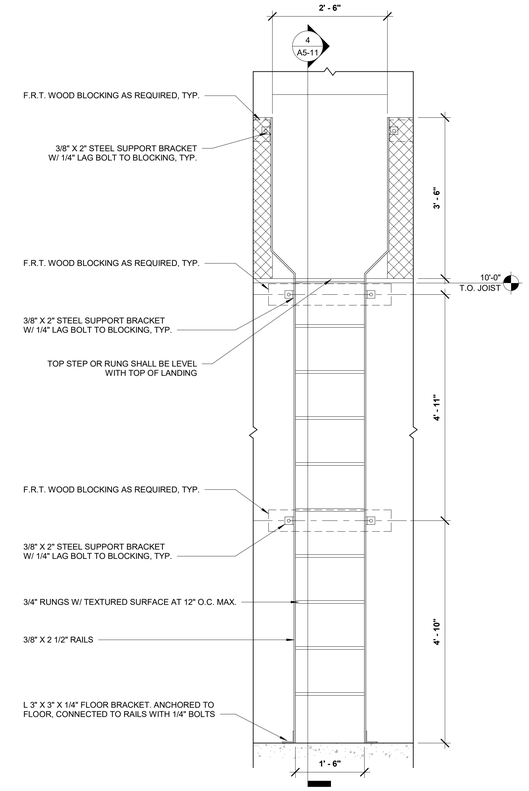
- FIXED LADDERS MUST BE ABLE TO SUPPORT AT LEAST TWO LOADS OF 250 POUNDS EACH, CONCENTRATED BETWEEN ANY TWO CONSECUTIVE ATTACHMENTS. FIXED LADDERS ALSO MUST SUPPORT ADDED ANTICIPATED LOADS CAUSED BY USING LADDER SAFETY DEVICES.
- INDIVIDUAL RUNG/STEP LADDERS MUST EXTEND AT LEAST 42 INCHES ABOVE AN ACCESS LEVEL OR LANDING PLATFORM EITHER BY THE CONTINUATION OF THE RUNG SPACINGS AS HORIZONTAL GRAB BARS OR BY PROVIDING VERTICAL GRAB BARS THAT MUST HAVE THE SAME LATERAL SPACING AS THE VERTICAL LEGS OF THE LADDER RAILS.
- EACH STEP OR RUNG OF A FIXED LADDER MUST BE ABLE TO SUPPORT A LOAD OF AT LEAST 250 POUNDS APPLIED IN THE MIDDLE OF THE STEP OR RUNG.
- MINIMUM CLEAR DISTANCE BETWEEN THE SIDES OF INDIVIDUAL RUNG/STEP LADDERS AND BETWEEN THE SIDE RAILS OF OTHER FIXED LADDERS MUST BE 16 INCHES.
- RUNGS OF INDIVIDUAL RUNG/STEP LADDERS MUST BE SHAPED TO PREVENT SLIPPING OFF THE END OF THE RUNGS.
- RUNGS AND STEPS OF FIXED METAL LADDERS MUST BE CORRUGATED, KNURLED, DIMPLED, COATED WITH SKID-RESISTANT MATERIAL OR TREATED TO MINIMIZE SLIPPING.
- MINIMUM PERPENDICULAR CLEARANCE BETWEEN FIXED LADDER RUNGS, CLEATS, AND STEPS AND ANY OBSTRUCTION BEHIND THE LADDER MUST BE 7 INCHES.
- MINIMUM PERPENDICULAR CLEARANCE BETWEEN THE CENTERLINE OF FIXED LADDER RUNGS, CLEATS AND STEPS, AND ANY OBSTRUCTION ON THE CLIMBING SIDE OF THE LADDER MUST BE 30 INCHES. IF OBSTRUCTIONS ARE UNAVOIDABLE, CLEARANCE MAY BE REDUCED TO 24 INCHES, PROVIDED A DEFLECTION DEVICE IS INSTALLED TO GUIDE WORKERS AROUND THE OBSTRUCTION.
- STEP-ACROSS DISTANCE BETWEEN THE CENTER OF THE STEPS OR RUNGS OF FIXED LADDERS AND THE NEAREST EDGE OF A LANDING AREA MUST BE NO LESS THAN 7 INCHES AND NO MORE THAN 12 INCHES. A LANDING PLATFORM MUST BE PROVIDED IF THE STEP-ACROSS DISTANCE EXCEEDS 12 INCHES.
- FIXED LADDERS MUST HAVE AT LEAST A 15-INCH CLEARANCE WIDTH TO THE NEAREST PERMANENT OBJECT ON EACH SIDE OF THE CENTERLINE OF THE LADDER.
- SIDE RAILS OF THROUGH OR SIDE-STEP FIXED LADDERS MUST EXTEND 42 INCHES ABOVE THE TOP LEVEL OR LANDING PLATFORM SERVED BY THE LADDER. PARAPET LADDERS MUST HAVE AN ACCESS LEVEL AT THE ROOF IF THE PARAPET IS CUT TO PERMIT PASSAGE THROUGH IT. IF THE PARAPET IS CONTINUOUS, THE ACCESS LEVEL IS THE TOP OF THE PARAPET.
- STEPS OR RUNGS FOR THROUGH-FIXED-LADDER EXTENSIONS MUST BE OMITTED FROM THE EXTENSION; AND THE EXTENSION OF SIDE RAILS MUST BE FLARED TO PROVIDE BETWEEN 24 INCHES AND 30 INCHES CLEARANCE BETWEEN SIDE RAILS.
- WHEN SAFETY DEVICES ARE PROVIDED, THE MAXIMUM CLEARANCE DISTANCE BETWEEN SIDE RAIL EXTENSIONS MUST NOT EXCEED 36 INCHES.
- FIXED LADDERS MUST BE USED AT A PITCH NO GREATER THAN 90 DEGREES FROM THE HORIZONTAL, MEASURED FROM THE BACK SIDE OF THE LADDER.



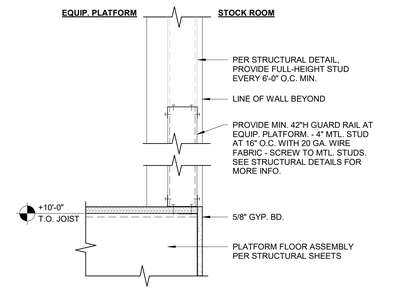
5 DETAIL- ROOF ACCESS LADDER & HATCH
3/4" = 1'-0"



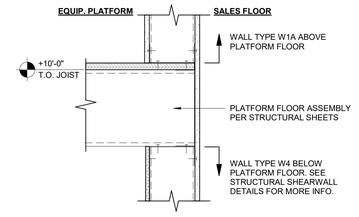
4 SECTION - EQUIPMENT PLATFORM LADDER
3/4" = 1'-0"



3 DETAIL- EQUIPMENT PLATFORM LADDER
3/4" = 1'-0"



1 DETAIL- PLATFORM AT GUARDRAIL
1 1/2" = 1'-0"



2 DETAIL- PLATFORM AT SALES FLOOR WALL
1 1/2" = 1'-0"

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t: 847 788 9200

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PROJECT TEAM

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED ARCHITECT • STATE OF OREGON •
JANEL MALLEK
ARLINGTON HEIGHTS, IL
ARI-14901
Expires: 12/31/2025

PROFESSIONAL IN CHARGE
J. MALLEK
PROJECT MANAGER
J. MALLEK
QUALITY CONTROL
J. MALLEK
DRAWN BY
M. BYRNE

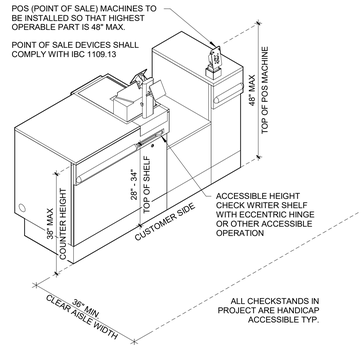
PROJECT NAME
GROCERY OUTLET
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0

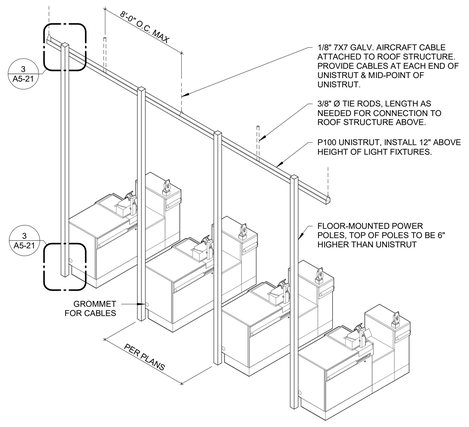
SHEET TITLE
PLATFORM DETAILS

SHEET NUMBER
A5-11

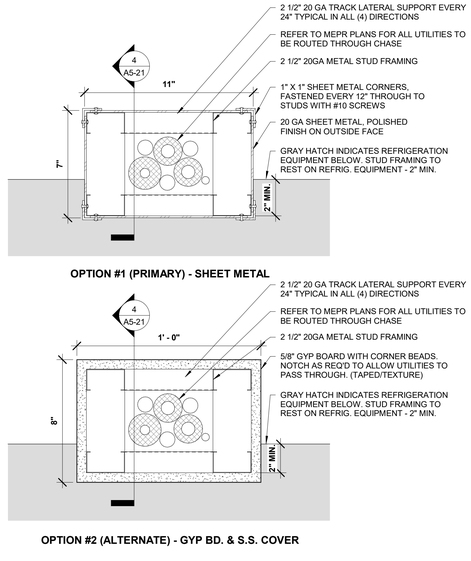
Last Modified: 3/4/2025 11:37:29 AM Drawing Name: C:\Users\jjanelmallek\Documents\GO Central Point_08+_Arch+_R22_dlubopub@greenbergfarrow.com.rvt



7 ACCESSIBLE CHECKSTAND REQUIREMENTS
1/2" = 1'-0"



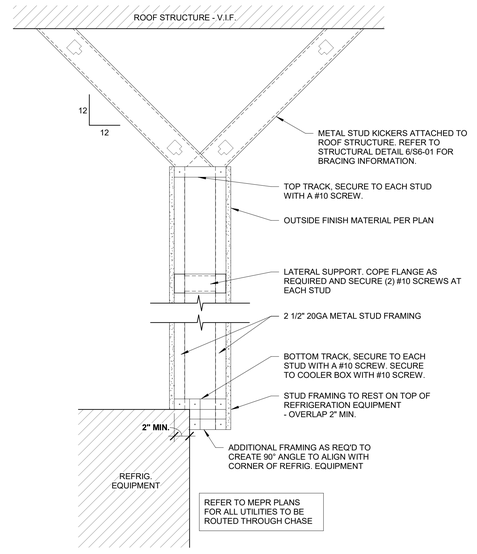
6 POS POWER POLE DIAGRAM
1/4" = 1'-0"



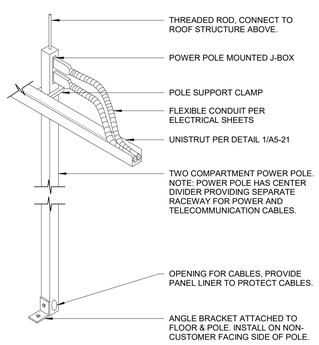
OPTION #1 (PRIMARY) - SHEET METAL

OPTION #2 (ALTERNATE) - GYP BD. & S.S. COVER

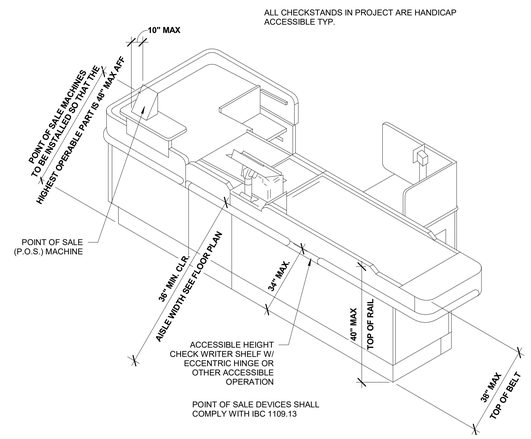
5 SUSPENDED REFRIGERATION CHASE PLAN
3" = 1'-0"



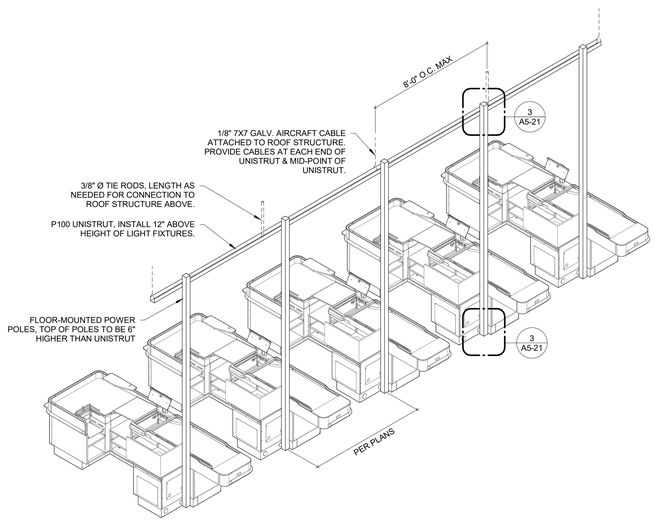
4 SUSPENDED REFRIGERATION CHASE ELEVATION
1 1/2" = 1'-0"



3 ENLARGED POS POWER POLE DETAIL
1/4" = 1'-0"



2 ACCESSIBLE CHECKSTAND
1/2" = 1'-0"



1 POS POWER POLE DIAGRAM
1/4" = 1'-0"

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CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0

SHEET TITLE
P.O.S. & REFRIG. CHASE DETAILS

SHEET NUMBER
A5-21

Last Modified: 3/4/2025 11:37:30 AM Drawing Name:C:\Users\kbridge\Documents\GO Central Point_OR~ Arch~ R22_dispuvpk@greenbergfarrow.com.rvt

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	WALL								CEILING			REMARKS
			NORTH		SOUTH		EAST		WEST					
			BASE	WALL	BASE	WALL	BASE	WALL	BASE	WALL	MATERIAL	FINISH	HEIGHT	
100	VESTIBULE	PC	-	-	-	-	-	-	-	-	-	-	-	1, 7, 15
101	SALES FLOOR	PC	B1	P1 (ES)	B1	P2 (ES)	B1	P1 (ES)	B1	P1 (ES)	-	-	-	1, 2, 3, 4, 10, 15
102	FRONT OFFICE	PC	B1	P1 (SG)	B1	P1 (SG)	B1	P1 (SG)	B1	P1 (SG)	GYP	P4 (SG)	9'-0"	2, 15
103	BACK OFFICE	PC	B1	P1 (SG)	B1	P1 (SG)	B1	P1 (SG)	B1	P1 (SG)	GYP	P4 (SG)	9'-0"	2, 15
104	DAIRY/PRODUCE COOLER	SC2	MF	MF	MF	MF	MF	MF	MF	MF	-	MF	-	5, 6, 12, 15
105	MEAT COOLER	SC2	MF	MF	MF	MF	MF	MF	MF	MF	-	MF	-	5, 6, 12, 15
106	FREEZER	SC2	MF	MF	MF	MF	MF	MF	MF	MF	-	MF	-	5, 6, 12, 15
107	BREAK ROOM	SC1	B1	P1 (SG)	B1	P1 (SG)	B1	P1 (SG)	B1	P1 (SG)	GYP	P4 (SG)	8'-0"	6, 10, 15
108	RESTROOM #1	EPX	EPX	FRP	EPX	FRP	EPX	FRP	EPX	FRP	GYP	P4 (SG)	8'-0"	7, 8, 14, 15
109	RESTROOM #2	EPX	EPX	FRP	EPX	FRP	EPX	FRP	EPX	FRP	GYP	P4 (SG)	8'-0"	7, 8, 14, 15
110	HALLWAY	PC	B1	P1 (SG)	B1	P1 (SG)	B1	P1 (SG)	B1	P1 (SG)	GYP	P4 (SG)	8'-0"	11, 15
111	STOCK ROOM	SC1	B2	UNFINISHED	B2	UNFINISHED	B2	UNFINISHED	B2	UNFINISHED	-	-	-	5, 6, 13, 15
112	BOTTLE REDEMPTION	EPX	EPX	FRP	EPX	FRP	EPX	FRP	EPX	FRP	ACT	-	9'-0"	-
115	RECEIVING AREA	SC1	B2	UNFINISHED	B2	UNFINISHED	B2	UNFINISHED	B2	UNFINISHED	-	-	-	5, 6, 13, 15
201	EQUIPMENT PLATFORM	PLY	B1	UNFINISHED	B1	UNFINISHED	B1	UNFINISHED	B1	UNFINISHED	-	-	-	-

GENERAL FINISH NOTES

1. SALES FLOOR WALL PAINT TO BE SHERWIN WILLIAMS CASHMERE INTERIOR ACRYLIC LATEX WITH AN EGGSHELL FINISH.
2. GRIND SALES AND OFFICE FLOORS TO A HIGH GLOSS SHINE (60 - 70 ON GLOSS METER), REF SPECIFICATIONS FOR FINISH.
3. FALSE COLUMNS COVER REFRIGERATION LINES TO REACH-IN CASES TO BE P1 "NATURAL LINEN", EGGSHELL FINISH.
4. STEEL SUPPORT COLUMNS ON SALES FLOOR TO BE P1 "NATURAL LINEN", SEMI-GLOSS.
5. EXTERIOR OF WALK-IN BOXES AND ANY GYP. BD. WALLS IN THE STOCK ROOM SHALL RECEIVE 1/2" PLYWOOD WAINSCOT CONTINUOUS TO 4'-0" A.F.F.
6. EXTERIOR OF WALK-IN BOXES TO HAVE B4 BASE HELD 1/4" AWAY FROM PLYWOOD WAINSCOT AND BOLTED DOWN TO THE SLAB. REFER TO DETAIL 24/A5-01 FOR FREEZER, DETAIL 9/A5-02 FOR COOLERS.
7. USE WATER RESISTANT GYPSUM BOARD AT WALLS.
8. USE WATER RESISTANT GYPSUM BOARD AT CEILING.
9. SALES FLOOR CEILING STRUCTURE TO REMAIN EXPOSED. EXPOSED ROOF INSULATION TO RECEIVE WHITE SCRIM. PROVIDE AMERICOVER DURA-SKRIM 6WW, OR SIMILAR.
10. NO FINISH REQUIRED BENEATH REFRIGERATION EQUIPMENT.
11. PROVIDE F.R.P. TO 4'-0" A.F.F. AT DRINKING FOUNTAIN ALCOVE.
12. COOLERS / FREEZER ARE INSTALLED WITH MFR-PROVIDED COVED BASE. GC TO PROVIDE SEALANT AT JUNCTION OF COVED BASE AND SEALED CONCRETE FLOOR SLAB.
13. PROVIDE 5'-0" X 5'-0" EPOXY FLOOR FINISH, EPOXY BASE, AND F.R.P. TO 4'-0" AT MOP SINK.
14. G.C. TO BID AN ALTERNATE PRICE ESTIMATE FOR SHEET VINYL FLOORING/BASE IN LIEU OF EPOXY IN THE RESTROOMS.
15. DEVICE/COVER PLATES COLORS TO BE:
    A. BLACK WHEN LOCATED IN THE TOEKICKS OF EQUIPMENT
    B. GREEN WHEN USED AT OCCUPANCY SENSORS
    C. WHITE AT ALL OTHER LOCATIONS U.N.O.

RESTROOM ACCESSORIES SCHEDULE

MARK	DESCRIPTION	MANUF.	MODEL	COMMENTS
RR1	GRAB BAR- 36"	Bobrick	B-6806x36	1 1/2" DIA. X 36" LONG. X 18. GA. S.STL. GRAB BAR
RR2	GRAB BAR- 42"	Bobrick	B-6806x42	1 1/2" DIA. X 42" LONG. X 18. GA. S.STL. GRAB BAR
RR3	GRAB BAR- 18"	Bobrick	B-6806x18	1 1/2" DIA. X 18" LONG. X 18. GA. S.STL. GRAB BAR
RR4	WATER CLOSET- FLOOR MOUNT	---	---	REFER TO PLUMBING DRAWINGS FOR INFORMATION.
RR5	LAVATORY- WALL HUNG	---	---	REFER TO PLUMBING DRAWINGS FOR INFORMATION
RR6	BABY CHANGING STATION	Koala Kare	KB300	COLOR: WHITE GRANITE 05
RR7	SANITARY NAPKIN DISPOSAL	Bobrick	B-254	
RR8	SEAT COVER DISPENSER	Bobrick	B-221	
RR9	TOILET TISSUE DISPENSER	Bobrick	B-3888 OR EQUAL	
RR10	SOAP DISPENSER	Bobrick	B-2111	
RR11	MIRROR	Bobrick	B-290 2436	
RR12	HAND DRYER	Dyson	Airblade V AB12 White	
RR14	DRINKING FOUNTAIN- BI-LEVEL	Oasis International	PG8ACSL	

ASSET PROTECTION SCHEDULE

TAG	DESCRIPTION	FINISH	SPECIFICATION
AC1	CORNER GUARD	SATIN FINISH	MANUFACTURER: JTC METALS SPEC: 18 GA SS CORNER GUARD W/ #4 FINISH 48" L, 2" LEGS, 3/8" WINGLETS, MOUNTING HOLES G.C. TO INSTALL WITH SELF-TAPPING SCREWS AND CLEAR SILICONE W/ SILICONE TOPPED EDGES
AC2	STAINLESS STEEL COLUMN WRAP	SATIN FINISH	MFR: STAINLESS ARCHITECTURAL SUPPLY OR SIM. 48"H, 20 GA 304 STAINLESS STEEL, #4 FINISH ALIGN JOINTS AWAY FROM CUSTOMER-FACING SIDE. PROVIDE CLEAR SILICONE AT JOINT EDGE & TOP OF WRAP. VERIFY COLUMN SIZES IN FIELD.
AC3	CART BUMPER	101 GRAY	2" POLYCARBONATE RECTANGULAR BUMPER MFR: McCUE SPEC: EDGE BUMPER MOUNT TWO (2) BUMPERS AT 6" A.F.F. & 2'-8" A.F.F. PER INTERIOR ELEVATIONS
AC4	STANDARD INTERIOR SAFETY BOLLARD	SAFETY YELLOW	POST GUARD: 4" X 42" BOLT DOWN BOLLARD MODEL # BDB 4-42 OR EQUAL. RECESS BASE PLATE AS REQUIRED.
AC5	EXTERIOR LOW-IMPACT BOLLARD	COLOR TO MATCH: P-5 "GROCERY OUTLET RED"	POST GUARD: 6" X 42" BOLT DOWN BOLLARD MODEL # BDB 6-42 OR EQUAL. RECESS BASE PLATE AS REQUIRED.
AC6	CART STOP	101 GRAY	MFR: McCUE SPEC: CARTSTOP RE
AC7	STEEL DOWNSPOUT PROTECTOR	PAINT TO MATCH P-5 "GROCERY OUTLET RED"	48" LENGTH, 1/4" STEEL G.C. TO VERIFY DOWNSPOUT SIZE PRIOR TO ORDERING
AC8	OVERHEAD DOOR TRACK GUARDS	SAFETY YELLOW	36"H, 1/4" STEEL FACTORY POWDERCOAT FINISH

MATERIAL KEY

MARK	DESCRIPTION	MARK	DESCRIPTION
MF	MANUFACTURER'S FINISH	(ES)	EGGSHELL FINISH
(SG)	SEMI-GLOSS FINISH		

INTERIOR FINISH SCHEDULE

MARK	MATERIAL	COLOR	DESCRIPTION
B1	BASE	BLACK	6" RUBBER BASE (REFER TO DETAIL 6/A5-02)
B2	COMP. WOOD BASE	PEBBLE GRAY	TREX COMPOSITE WOOD BOARD 2 X 6 SQUARE EDGE (REFER TO DETAIL 5/A5-02)
B3	SHEET VINYL COVE	MATCH SVF COLOR	(REFER TO DETAIL 7/A5-02)
B4	WOOD BUMPER	-	4" X 6" PRESSURE TREATED CONT. BUMPER. REFER TO DETAIL 24/A5-01 FOR FREEZER, DETAIL 8/A5-02 FOR COOLERS.
EPX	EPOXY	GRAY	OPTION #1: MFR: TERA LITE, SPEC: TERA-GEM III IFS OPTION #2: SHERWIN WILLIAMS RESUFLOR DECO QUARTZ BC23, COLOR: GREY LINEN REFER TO DETAIL 8/A5-02 FOR BASE DETAIL
FRP	FIBERGLASS REINFORCED PANELS	COLOR: WHITE FINISH: PEBBLE	MARLITE STANDARD FRP, SPEC: P 100 WHITE
P1	PAINT	NATURAL LINEN	SHERWIN WILLIAMS #9109- CASHMERE @ SALES ONLY
P2	PAINT	HEART THROB	SHERWIN WILLIAMS #6866- CASHMERE
P3	PAINT	COCOA WHIP	SHERWIN WILLIAMS #9084- CASHMERE
P4	PAINT	GROCERY OUTLET WHITE	SHERWIN WILLIAMS- CUSTOM COLOR
PC	POLISHED CONCRETE		PER GOI SPECIFICATIONS - BY GOI'S VENDOR
PLAM	PLAM	DOVER WHITE	FORMICA #7197-58
SC1	CLEAR CONCRETE SEALER		PER GOI SPECIFICATIONS - BY GOI'S VENDOR
SC2	CONCRETE WATER-PROOFER/ SEALER		PER GOI SPECIFICATIONS - BY GOI'S VENDOR
SVF	SHEET VINYL FLOORING	ALUMINUM (#18022)	MFR: MANNINGTON, SPEC: TERRENE
PLY	PLYWOOD		1/2" PLYWOOD
CF1	VINYL-LAMINATED LAY-IN GYPSUM CEILING PANELS	FLAT WHITE 050	PANELS USG SHEETROCK BRAND LAY-IN GYPSUM CEILING PANELS CLIMAPLUS PERFORMANCE ITEM NO: 3270, SIZE: 2'-0" X 4'-0" X 1/2" GRID USG DONN BRAND DX/DXL ACOUSTICAL SUSPENSION SYSTEM, 15/16" PROFILE. SQUARE EDGE, FLAT WHITE 050 FINISH, DXL26 HEAVY DUTY. INSTALL PER MFR. INSTRUCTIONS.

EXTERIOR FINISH SCHEDULE

MARK	MATERIAL	MFR.	SPECIFICATION
P-5	EXTERIOR PAINT	SHERWIN WILLIAMS	COLOR: "GROCERY OUTLET RED"
P-6	EXTERIOR PAINT	SHERWIN WILLIAMS	COLOR: "GROCERY OUTLET SHORELINE"
P-7	EXTERIOR PAINT	SHERWIN WILLIAMS	COLOR: "GROCERY OUTLET GRAY"
P-8	EXTERIOR PAINT	SHERWIN WILLIAMS	COLOR: "GROCERY OUTLET CHARCOAL"

FOR SHERWIN WILLIAMS PAINTS USE NATIONAL PARENT #GD34 PRC TO PRICE THE PRODUCTS

SHERWIN WILLIAMS CONTACT
JEREL BROWN - NATIONAL ACCOUNT EXECUTIVE
PHONE: (445) 776-5280
EMAIL: JEREL.BROWN@SHERWIN.COM

HARDWARE GROUPS

GROUP A: (ENTRY DOORS)

	SPEC	FINISH	MFR
2	SFIC MORTISE CYLINDER	737P 43	US32D SARGENT

BALANCE OF HARDWARE BY DOOR MANUFACTURER

GROUP B1: (EXIT DOOR)

3	HINGE, FULL MORTISE	TA2314 NRP	US32D MCKINNEY
1	RIM EXIT DEVICE (EO)	TB 5CH 8810 EO	US32D SARGENT
1	SFIC MORTISE CYLINDER	737P 43	US32D SARGENT
1	SURFACE CLOSER (STOP)	CPS7500 689	NORTON
1	THRESHOLD	253x3AFG	PEMKO
1	SWEEP	XCL-111 OR XCL-151 ALUM.	XCLUDER
1	GASKETING (HEAD)	2893AV	PEMKO
2	GASKETING (JAMBS)	2903AV	PEMKO
1	RAIN GUARD	346C	PEMKO
1	190° DOOR VIEWER	622	US32D ROCKWOOD

NOTES: DOOR IS NORMALLY CLOSED AND LOCKED WITH NO EXTERIOR ACCESS.

GROUP B3 (EXIT DOOR WITH ALARM & 15 SECOND DELAYED EGRESS):

2	HINGE, FULL MORTISE	TA2314 NRP	US32D MCKINNEY
1	ELECTRIC HINGE	TA2314-QC	US32D MCKINNEY
1	RIM EXIT DEVICE (EO, RX)	TB 5CH 59-8810 EO	US32D SARGENT
1	SFIC MORTISE CYLINDER	737P 43	US32D SARGENT
1	SURFACE CLOSER (STOP)	CPS7500 689	NORTON
1	THRESHOLD	253x3AFG	PEMKO
1	SWEEP	XCL-111 OR XCL-151 ALUM.	XCLUDER
1	GASKETING (HEAD)	2893AV	PEMKO
2	GASKETING (JAMBS)	2903AV	PEMKO
1	RAIN GUARD	346C	PEMKO
1	WIRING HARNESS (FRAME)	QC-C1500P	MCKINNEY
1	WIRING HARNESS (DOOR)	QC-C___P AS REQUIRED	MCKINNEY
1	LOW VOLT POWER SUPPLY	AQD W/FA INTERFACE AS REQ'D	SECURITRON
1	190° DOOR VIEWER	622	US32D ROCKWOOD

NOTES: DOOR IS NORMALLY CLOSED AND LOCKED WITH NO EXTERIOR ACCESS AND DELAYED EGRESS FROM INSIDE.
PUSHING ON EXIT DEVICE RAIL OR DOOR INITIATES AN IRREVERSIBLE 15 SECOND DELAY AND AUDIBLE ALARM.
AFTER THE 15 SECOND DELAY, THE DELAYED EGRESS MAGNETIC LOCK RELEASES FOR FREE EGRESS.
THE DELAYED EGRESS MAGNETIC LOCK MUST BE RESET MANUALLY AT THE DOOR.
FIRE ALARM INTERFACE IS REQUIRED AND DELAYED EGRESS MAGNETIC LOCK IS DEACTIVATED DURING ALARM ALLOWING IMMEDIATE FREE EGRESS.

GROUP C (FRONT OFFICE, BREAK ROOM)

3	HINGE, FULL MORTISE	TA2714	US26D MCKINNEY
1	STOREROOM LOCK	70 10XG04 LL	US26D SARGENT
1	PERMANENT KEYED CORE	7P-7300B GMK	US15 SARGENT
1	SURFACE CLOSER	7500689	NORTON
1	WALL STOP	ONLY 409	US32D ROCKWOOD
1	GASKETING	S88D	PEMKO
1	LOUVERED DOOR VENT, 24" X 24" (ONLY AT BREAK ROOM)		

GROUP D (BACK OFFICE):

3	HINGE, FULL MORTISE	TA2714	US26D MCKINNEY
1	STOREROOM LOCK	70 10XG04 LL	US26D SARGENT
1	PERMANENT KEYED CORE	7P-7300B GMK	US15 SARGENT
1	WALL STOP	409	US32D ROCKWOOD
1	GASKETING	S88D	PEMKO

GROUP E: (RESTROOMS)

3	HINGE, FULL MORTISE, HVY WT	T4A3786	US26D MCKINNEY
1	INDICATOR PRIVACY LOCK	V21 8266 LNL	US26D SARGENT
1	SURFACE CLOSER	7500	689 NORTON
2	KICK PLATE	K1050 10" CSK BEV	US32D ROCKWOOD
1	WALL STOP	409	US32D ROCKWOOD
3	SILENCER	608-RKW	ROCKWOOD

DOOR SCHEDULE

MARK	FROM ROOM	DOOR TYPE	DOOR SIZE WIDTH	HEIGHT	THICK.	HARD WARE	MATERIAL DOOR	MATERIAL FRAME	FINISH DOOR	FINISH FRAME	GLAZING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE RATING	COMMENTS
EXISTING																
100	VESTIBULE	EXIST.	16' - 0"	8' - 8"	1 1/2"	A	AL	AL	FF	FF	1" TEMP.	---	---	---	---	
101	SALES FLOOR	EXIST.	16' - 0"	8' - 8"	1 1/2"	A	AL	AL	FF	FF	1" TEMP.	---	---	---	---	
110	HALLWAY	EXIST.	3' - 0"	7' - 0"	1 3/4"	B3						---	---	---	---	
111B	RECEIVING AREA	EXIST.	3' - 0"	7' - 0"	1 3/4"	B1						---	---	---	---	
111C	RECEIVING AREA	EXIST.	7' - 0"	9' - 0"	3/4"	MFR.	MFR.	MFR.	PT	PT	---	---	---	---	---	
111D	RECEIVING AREA	EXIST.	9' - 0"	10' - 0"	3/4"	MFR.	MFR.	MFR.	PT	PT	---	---	---	---	---	
NEW CONSTRUCTION																
102	FRONT OFFICE	H	3' - 0"	7' - 0"	1 3/4"	C	HM	HM	PT	PT	1/4" TEMP.	16/A5-01	16/A5-01	---	---	
103	BACK OFFICE	H	3' - 0"	7' - 0"	1 3/4"	D	HM	HM	PT	PT	1/4" TEMP.	16/A5-01	16/A5-01	---	---	
107A	BREAK ROOM	E	3' - 0"	7' - 0"	1 3/4"	C	HM	HM	PT	PT	---	16/A5-01	16/A5-01	---	---	
107B	BREAK ROOM	E	3' - 0"	7' - 0"	1 3/4"	C	HM	HM	PT	PT	---	16/A5-01	16/A5-01	---	---	
108	RESTROOM #1	F	3' - 0"	7' - 0"	1 3/4"	E	HM	HM	PT	PT	---	16/A5-01	16/A5-01	---	---	
109	RESTROOM #2	F	3' - 0"	7' - 0"	1 3/4"	E	HM	HM	PT	PT	---	16/A5-01	16/A5-01	---	---	
111A	STOCK ROOM	J	7' - 0"	8' - 0"		MFR.	POLY	HM	MFR.	MFR.	---	23/A5-01	22/A5-01	---	---	
112	BOTTLE REMEPTION	C	4' - 0"	7' - 0"	1 3/4"	B1						---	18/A5-01	18/A5-01	12/A5-01	---

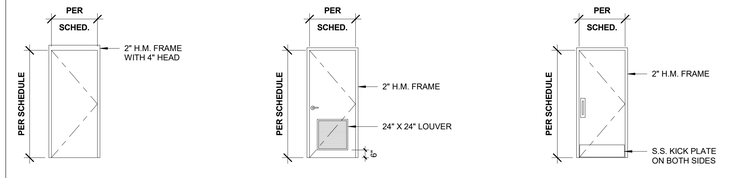
DOOR SCHEDULE ABBREVIATIONS

SC: SOLID CORE WOOD VENEER (MINERAL CORE WHERE RATED)
HM: HOLLOW CORE- METAL (GAUGE PER SCHEDULE)
PM: PRESSED METAL FRAME- METAL (GAUGE PER SCHEDULE)
SS: STAINLESS STEEL (GAUGE PER MANUFACTURER)
PVC: POLYVINYL CHLORIDE (GAUGE PER MANUFACTURER)
MFR: MANUFACTURER
FF: FACTORY FINISH
PT: FIELD PAINTED OVER FACTORY PRIMER
TEMP: TEMPERED (GLAZING)
(E): EXISTING TO REMAIN
U.S.: UNDER SHELL SCOPE OF WORK

DOOR & HARDWARE NOTES

1. PROVIDE COMPLETE, CODE CONFORMING FINISH HARDWARE SCHEDULE AND INSTALLATION AS REQUIRED FOR A FULLY OPERATIONAL FACILITY, INCLUDING WORK REQUIRED FOR PROPER COMPLETION OF PROJECT, THOUGH NOT DEFINITELY SPECIFIED HEREIN.
2. TEMPLATES: FURNISH TEMPLATE OF PHYSICAL HARDWARE ITEMS TO DOOR AND FRAME MANUFACTURED AS REQUIRED TO ENSURE PROPER PREPARATION FOR HARDWARE.
3. HARDWARE SECURELY ANCHORED WITH APPROPRIATE FASTENING DEVICES. FINISH EXPOSED FASTENERS TO MATCH HARDWARE.
   A. KEYING: COORDINATE WITH TENANT REGARDING KEY AND PIN FOR LOCKSETS AT DOORS. LOCKS ARE TO BE GUARD MASTER KEYED, MASTER KEYED, AND KEYED ALIKE IN DIFFERENT SETS. PROVIDE ONE SET OR CONSTRUCTION CORE AND TWO CONSTRUCTION CONTROL KEYS.
   B. COORDINATE TEMPLATES AND REINFORCING WITH DOOR AND FRAME MANUFACTURER.
4. COORDINATE ALL HARDWARE REQUIREMENTS W/ ANY SECURITY DEVICES INDICATED. COORDINATE INSTALLATION FOR PROPER OPERATION, INTERFACE, AND CONNECTION WITH ANY SECURITY DEVICES AND/ OR SECURITY SYSTEM.
5. ALL ELECTRONICALLY CONTROLLED HARDWARE SHALL BE "FAIL-SAFE" TYPE. PREP DOORS WITH ELECTRICAL LOCKSET AS REQUIRED. ASSEMBLY RATING SHALL BE MAINTAINED.
6. THE ONLY EXTERIOR DOOR IN THIS PROJECT WITH SECURITY KEYED ENTRY IS THE AUTOMATIC SLIDER - TO BE LOCKED ONLY WHEN BUILDING IS NOT OCCUPIED
7. PAINT COLORS FOR ALL PAINTED INTERIOR & EXTERIOR DOORS SHALL MATCH ADJACENT SURFACE U.N.O.
8. ALL INTERIOR DOORS TO HAVE 3/4" UNDERCUT U.N.O.
9. ALL NEW AND EXISTING DOORS TO RECEIVE NEW HARDWARE PER SCHEDULE ABOVE U.N.O..

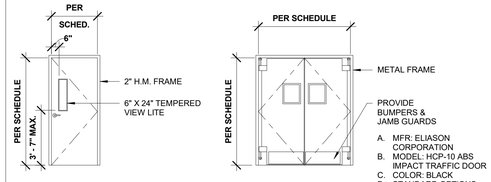
DOOR TYPES



C HOLLOW METAL EXIT DOOR
SINGLE LEAF

E HOLLOW METAL DOOR - BREAK ROOM
SINGLE LEAF

F HOLLOW METAL DOOR- RESTROOM
SINGLE LEAF



H HOLLOW METAL DOOR W/ LITE- OFFICE
SINGLE LEAF

J IMPACT DOOR
DOUBLE LEAF

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PROJECT TEAM

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02/24/2025	PERMIT SET

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J. MALLEK
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M. BYRNE

PROJECT NAME
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4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
20241247.0
SHEET TITLE
SCHEDULES
SHEET NUMBER
A6-01

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MERCHANDISING CREEP

CONSTITUTES PORTABLE AND ORGANIZED MERCHANDISING DISPLAYS AT THE EXTERIOR FRONTAGE OF THE STORE. THESE DISPLAYS ARE DISCRETIONAL AS TO EXACT AMOUNT AND PLACEMENT DUE TO SEASONAL FACTORS AS CHOSEN BY STORE OPERATOR. THESE DISPLAYS ARE EITHER 3'X3'X±30"H PREMANUFACTURED WOOD VENEERED BINS WITH CASTERS OR ±4'X4' PALLET BOXES WITH AESTHETIC GRAPHIC SURROUNDS. THESE EXTEIOR DISPLAYS ARE ONLY PRESENT DURING STORE OPERATION HOURS AND ARE RELOCATED INTO STORE ENTRY EVERY END OF DAY AS OCCURS. THE LOCATIONS SHOWN ON THIS PLAN ARE THE TYPICAL INTENDED EXTENT FOR THIS STORE'S SPEIFIC FRONTAGE CONDITIONS. AT NO TIME ARE DISPLAYS TO RESTRICT WALKWAY PATHS OR EMERGENCY EGRESS REQUIREMENTS.

RACKING CLARIFICATION

1. PALLET RACKING IN COOLER BOXES, FREEZER BOXES & BACK OF HOUSE DOES NOT REQUIRE LEG ANCHORS.
2. PALLET RACKING (MERCHANDISERS) WITH UPPERMOST PRODUCT DECK LOWER THAN +48" A.F.F. DOES NOT REQUIRE LEG ANCHORS

DISCLAIMER: NUMBERS SHOWN AS ±APPROX. REFER TO PLANS FOR ACCURATE SIZES.

ALL DIMENSIONS ARE MEASURED IN INCHES

GONDOLA SHELVING SIZES

24 - 48 - 84

DEPTH (BASE DECK) | LENGTH | HEIGHT

STEEL SHELVING SIZES

36 - 84 - 42 - 2-TIER - WIRE

DEPTH | LENGTH | HEIGHT | # OF SHELVING TIERS | WIRE MESH DECKS

WALL LEGEND

SEE SHEET A5-02 FOR WALL TYPES AND INSULATION/FINISHES

- = EXISTING WALLS TO REMAIN (FOR USE ON TI PROJECTS)
- = LOAD-BEARING / SHEAR WALLS (REFER TO STRUCTURAL SHEETS)
- = FULL HEIGHT PARTITIONS (TO BOTTOM OF ROOF DECK)
- = PARTITIONS (TO BOTTOM OF CEILING)
- = COOLER WALLS (BY MANUF.)

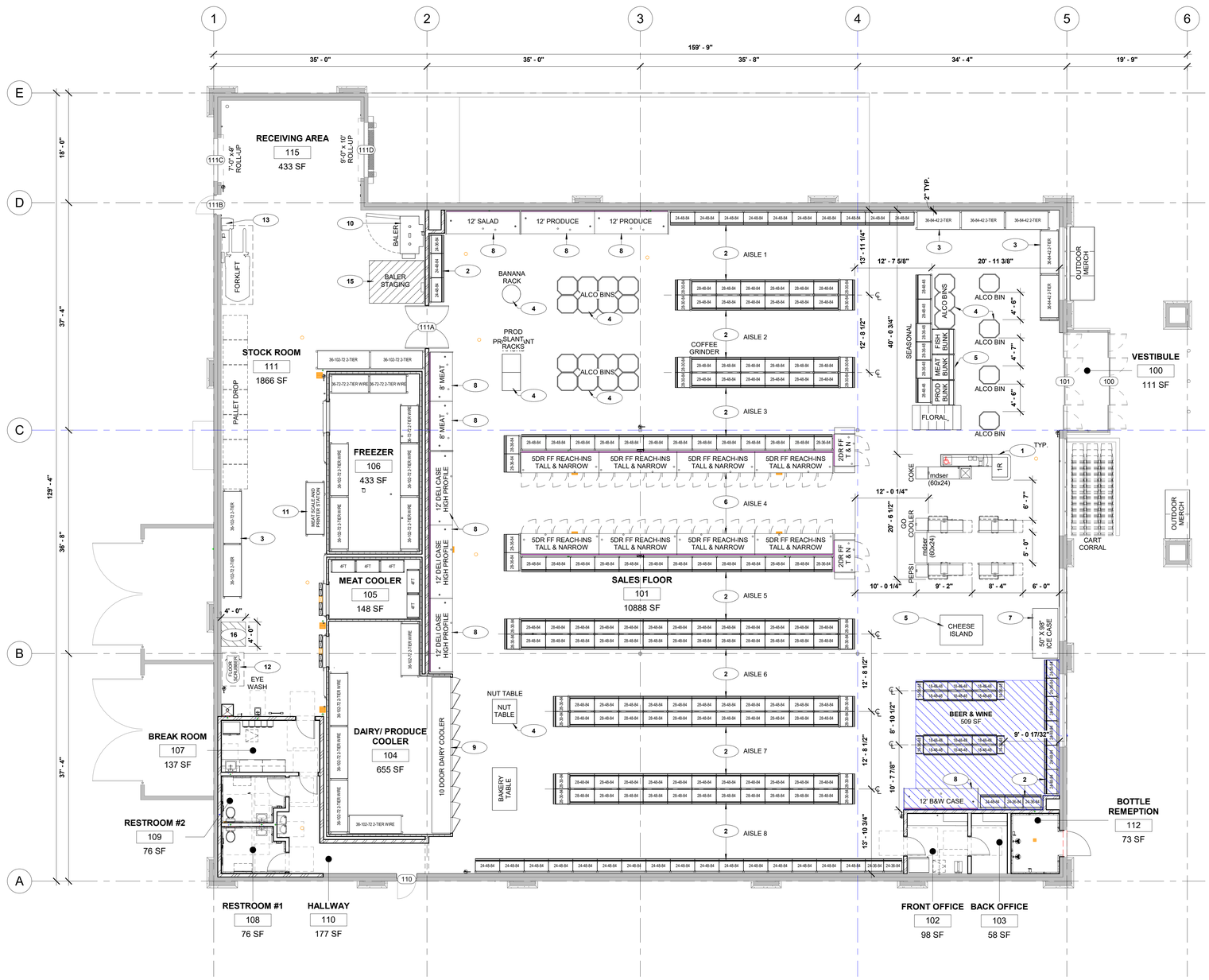
FIXTURE PLAN LEGEND

FIRE EXTINGUISHER LOCATION WITH REQUIRED SIGNAGE - G.C. TO FIELD VERIFY WITH LOCAL FIRE MARSHAL

ALL CHECKSTANDS IN PROJECT ARE HANDICAP ACCESSIBLE, TYP.

KEYNOTES - FIXTURE PLAN

MARK	NOTE
1	CHECKSTAND, MERCHANDISER & SELF-CONTAINED DRINK CASES (PROVIDED BY GOI). SEE DETAIL 1/A5-21 & ELECTRICAL SHEETS FOR POINT-OF-SALES (P.O.S.) POWER POLE DROPS FOR CHECKSTANDS AND SELF-CONTAINED DRINK CASES. G.C. & E.C. TO COORDINATE EXACT LOCATIONS WITH INSTALLER AT SITE.
2	LOZIER / GONDOLA SHELVING (PROVIDED BY GOI) - SEE DETAILS ON STRUCTURAL DWGS
3	STEEL PALLET RACK SHELVING (PROVIDED BY GOI) - SEE DETAILS ON STRUCTURAL DWGS
4	MOVABLE DISPLAY UNIT (PROVIDED BY GOI) - AS LABELED
5	SELF-CONTAINED BUNKER OR CASE (BY GOI PER R-SHEETS)
6	FROZEN FOOD STANDING REACH-IN CASE (BY GOI PER R-SHEETS)
7	ICE VENDING CASE (NOT AN ICE MAKER) (BY GOI PER R-SHEETS)
8	REFRIGERATED SHELVED MERCHANDISE UNIT (BY GOI PER R-SHEETS)
9	CURBED DAIRY FRONTAGE WITH PRODUCT RACKS (PER BOX MANUF.)
10	BALER FOR CARDBOARD (SEE E-SHEETS FOR SERVICE REQUIREMENTS)
11	FRAMED SHELF FOR SCALE STATION - PER GOI (SEE E-SHEETS)
12	FLOOR SCRUBBER (SEE E-SHEETS FOR ELECTRICAL REQUIREMENTS)
13	FORKLIFT & CHARGER - PER GOI STANDARDS (SEE E-SHEETS)
15	BALER STAGING AREA
16	CLEANING SUPPLY STORAGE



1 FIXTURE PLAN
1/8" = 1'-0"

NORTH

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FIXTURE PLAN

SHEET NUMBER

A8-01

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ENERGY COMPLIANCE NOTES

1. SET POINT OVERLAP RESTRICTION - WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS PROVIDED A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 5 DEG. F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM. EMS CONTRACTOR TO INCORPORATE THIS INTO THE CONTROLLER.
2. OPTIMUM START CONTROLS - EMS CONTRACTOR TO PROGRAM THE CONTROLLER SO THAT EACH HVAC SYSTEM HAS CONTROLS THAT VARY THE START-UP TIME OF SYSTEM TO JUST MEET THE TEMPERATURE SETPOINT AT TIME OF OCCUPANCY.
3. OFF-HOUR CONTROLS - EMS SYSTEM HAS THE CAPABILITY TO PROVIDE THERMOSTATIC SETBACK CONTROLS.
4. SHUTOFF DAMPER CONTROL - MECHANICAL CONTRACTOR TO PROVIDE CLASS 1 MOTORIZED DAMPER.
5. ALL LOW PRESSURE DUCTWORK AND DUCT SYSTEMS - MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL LONGITUDINAL, TRANSVERSE, AND OTHER DUCT JOINTS OF ALL KINDS, SEAMS, AND CONNECTIONS OF LOW-PRESSURE SUPPLY AND RETURN DUCTS ARE SECURELY FASTENED AND SEALED WITH WELDS, GASKET, MASTICS (ADHESIVES), MASTS-PLUS-EMBEDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO A SMACNA CLASS B STANDARD PER TABLE 1-2 OR BETTER. CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING ALL COSTS ASSOCIATED WITH THESE SEALING REQUIREMENTS IN BASE BID.

   AIR LEAKAGE TESTINGS - ALL DUCT WORK SYSTEMS ON THE PROJECT INCLUDING SUPPLY, RETURN AND EXHAUST, AND VENTILATION SYSTEMS SHALL BE TESTED. LEAKAGE SHALL NOT EXCEED 5% OF THE RATED AIR FLOW RATE (CFM) AT THE RATED DUCT SYSTEM PRESSURE. ALL AIR LEAKS FOUND SHALL BE CORRECTED SO THAT DUCT LEAKAGE FALLS BELOW THE ACCEPTABLE MARGIN STATED HERE. CONTRACTORS SHALL BE RESPONSIBLE FOR INCLUDING ALL COSTS ASSOCIATED WITH TESTING AND REMEDIATING LEAKS IN BASE BID.

   SHEET METAL GAUGES, TRANSVERSE JOINTS, LONGITUDINAL SEAMS AND INTERMEDIATE REINFORCING MUST BE IN CONFORMANCE WITH SMACNA STANDARDS AS FOLLOWS:

   1. LOW PRESSURE DUCTS PER SMACNA TABLE 1-2 - 2" W.G.
   2. MEDIUM PRESSURE DUCTS PER SMACNA TABLE 1-2 - 4" W.G.
   3. HIGH PRESSURE DUCTS PER SMACNA TABLE 1-2 - 6" W.G.
6. HUMIDITY CONTROL - M.C./AC MANUFACTURER TO SET THE AC UNIT IN PREVENTING THE USE OF FOSSIL FUEL OR ELECTRICITY TO REDUCE RELATIVE HUMIDITY BELOW 55 PERCENT.
7. HUMIDITY CONTROL - M.C./AC MANUFACTURER TO SET THE AC UNIT IN MAINTAINING A DEADBAND OF AT LEAST 10% RELATIVE HUMIDITY WHERE NO ACTIVE DEHUMIDIFICATION TAKES PLACE.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENGINEER WITH SUBMITTAL PACKAGES FOR REVIEW FOR ALL EQUIPMENT SPECIFIED ON THESE DRAWINGS. CONTRACTOR IS ONLY PERMITTED TO PURCHASE SPECIFIED EQUIPMENT FOLLOWING RECEIPT OF REVIEWED SUBMITTALS IN COMPLIANCE WITH ALL OF ENGINEER 'S COMMENTS. IF CONTRACTOR PURCHASES ANY SPECIFIED EQUIPMENT WITHOUT SUBMITTING A SUBMITTAL AND RECEIVING ENGINEER COMMENTS, THEN CONTRACTOR IS TAKING SOLE RESPONSIBILITY FOR THE ACCURACY OF PURCHASED EQUIPMENT AND IS SOLELY RESPONSIBLE FOR REPLACING SAID EQUIPMENT IF IMPROPERLY FURNISHED.

CONTRACTOR SHALL REVIEW MEP REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT WITH EQUIPMENT MANUFACTURER PRIOR TO BID. CONTRACTOR SHALL INFORM ENGINEER OF ANY DESCREPANCIES BETWEEN MANUFACTURER DATA AND WHAT IS SHOWN ON PLAN PRIOR TO BID. SHOULD OWNER FURNISHED EQUIPMENT DIFFER FROM WHAT IS SHOWN ON PLAN AND CONTRACTOR NOT INFORM ENGINEER PRIOR TO BID, THEN NO CHANGE ORDERS WILL BE ACCEPTED OR APPROVED TO ACCOUNT FOR THE DIFFERENCE BETWEEN ACTUAL OWNER FURNISHED EQUIPMENT AND WHAT IS SHOWN ON PLAN.

CODES AND REGULATIONS

2022 Oregon Structural Specialty Code (OSSC)
2021 Oregon Energy Efficiency Specialty Code (OEESC)
2023 Oregon Electrical Specialty Code (OESC)
2022 Oregon Mechanical Specialty Code (OMSC)
2023 Oregon Plumbing Specialty Code (OPSC)

ALL WORK PERFORMED MUST BE IN COMPLIANCE WITH THE ABOVE CODES AND LOCAL AMENDMENTS

MECHANICAL INSULATION

1. ALL INSULATION MUST BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. APPLY INSULATION AFTER ALL TESTING HAS BEEN COMPLETED AND APPROVED.
3. ALL INSULATION PROVIDED FOR THE PROJECT MUST MEET A MAXIMUM FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED OF 50 OR LESS, AS TESTED IN ACCORDANCE WITH ASTM, NFPA & U.L. GUIDELINES.
4. ALL INSULATION FOR EQUIPMENT AND PIPING WITH A SURFACE TEMPERATURE BELOW 65 DEGREES F, SHALL CONTAIN A COMPLETE VAPOR BARRIER SEAL.
5. PIPING INSULATION
   A. PROVIDE VAPOR COVER FOR ALL EXPOSED PIPING.
   B. PROVIDE WEATHER PROOF JACKET FOR ALL OUTDOOR PIPING.

BUILDING GENERAL NOTES

1. ALL CUTTING, CURBING, PATCHING, PAINTING, EQUIPMENT PLATFORMS, AND STRUCTURAL SUPPORTS, PLATFORMS OR CATWALKS BY GENERAL CONTRACTOR.
2. ALL CONSTRUCTION TO CONFORM WITH LOCAL BUILDING CODES.
3. THERMOSTATS TO BE MOUNTED AT 48" (MAXIMUM) FROM FINISHED FLOOR PER 2018 IBC ON WALL OR COLUMN UNLESS OTHERWISE NOTED.
4. ALL CONCRETE CUTTING, REMOVAL AND PATCHING BY GENERAL CONTRACTOR.
5. ALL TRENCHING, BACKFILL AND COMPACTION TO BE BY GENERAL CONTRACTOR.
6. ACCESS DOORS, OTHER THAN IN DUCT WORK, TO BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.
7. PERMANENT ACCESS TO EQUIPMENT ON PLATFORM OR ROOF TO BE PROVIDED BY GENERAL CONTRACTOR.
8. ATTIC VENTILATION PROVIDED BY OTHERS.
9. COUNTER FLASHING AND SEALING FURNISHED AND INSTALLED OTHERS.
10. CURBED OPENINGS, LEVELING CURBS AND STRUCTURAL SUPPORT REQUIRED FOR ROOF EQUIPMENT, SUSPENDED EQUIPMENT, DUCT AND PIPING, SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.
11. ROOF JACKS FOR VENT TERMINATIONS, FOR THIS SECTION ONLY, TO BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.
12. DUCT ENCLOSURES OR DUCT SHAFTS BY GENERAL CONTRACTOR.
13. ONE-HOUR SHAFTS AND FIRE RATED ACCESS DOORS FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
14. AIR CONDITIONING REFRIGERATION SERVICE PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER RESISTANT CAP OR SHALL BE PROTECED FROM UNAUTHORIZED ACCESS BY A MEAN ACCEPTABLE TO THE BUILDING DEPARTMENT PER IMC SECTION 1101.10.

MECHANICAL BUILDING NOTES

1. THE HVAC CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, EQUIPMENT AND ALL CONTRACTUAL EXPENSES REQUIRED FOR THE COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM TO THE SATISFACTION OF THE OWNER, ARCHITECT AND MECHANICAL ENGINEER.
2. THE INSTALLATION SHALL COMPLY WITH AND BE IN ACCORDANCE WITH ALL LEGALLY CONSTITUTED AUTHORITIES AND CODES HAVING JURISDICTION, AND ALSO ALL OWNERS REQUIREMENTS.
3. THE HVAC CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED TO COMPLETE THIS JOB.
4. THE HVAC CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, APPARATUS, ACCESSORIES HE FURNISHES FOR A PERIOD OF ONE YEAR.
5. COORDINATE THE SIZE, LOCATION AND SERVICE REQUIREMENTS OF ALL MECHANICAL EQUIPMENT AND DUCTWORK WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION. REPORT IN WRITING ALL UNRESOLVED CONFLICTS TO THE GENERAL CONTRACTOR AND COPIES SENT TO THE ENGINEER.
6. COORDINATE THE LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, ETC. WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, AND BUILDING SPRINKLER PLAN.
7. SEE STRUCTURAL DRAWINGS FOR EXACT LOCATION OF ROOF OPENINGS AND LOCATION OF EQUIPMENT ON ROOF.
8. THE WIRING DIAGRAMS SHOWN HERE ARE FOR THE PURPOSE OF INDICATING THE FUNCTIONAL OPERATION OF THE MECHANICAL EQUIPMENT ONLY. ALL FIELD WIRING, ELECTRICAL, OPERATING AND SAFETY DEVICES SHALL CONFORM TO THE ELECTRICAL ENGINEERS PLANS AND SPECIFICATIONS WITHOUT EXCEPTION.
9. ALL STEEL DUCT SHALL BE NEW GALVANIZED SHEET STEEL, AS INDICATED ON PLANS DUCT GAUGES, CONSTRUCTION, SUPPORT AND INSTALLATION SHALL BE ACCORDANCE WITH THE APPLICABLE MECHANICAL CODE AND SMACNA.
10. FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE MECHANICAL CODES.
11. ALL TRANSVERSE JOINTS IN THE SUPPLY AIR DUCT SHALL BE SEALED AIR TIGHT. USE AN APPROVED DUCT SEALER.
12. FLEXIBLE CONNECTIONS SHALL BE PROVIDED FOR ALL DUCTWORK ATTACHED TO AIR MOVING EQUIPMENT MOUNTED ON OR SUSPENDED FROM VIBRATION ISOLATORS. FLEXIBLE CONNECTIONS SHALL BE APPROVED AND CONFORM TO THE REQUIREMENTS OF THE APPLICABLE CODES.
13. PROVIDE ALL FIRE AND SMOKE DAMPERS AS REQUIRED BY LEGALLY CONSTITUTED AUTHORITIES AND CODES HAVING JURISDICTION.
14. GAS BURNING APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH A.G.A. APPROVAL CONDITIONS, MANUFACTURER'S INSTALLATION REQUIREMENTS, AND LOCAL AGENCIES HAVING JURISDICTION.
15. ALL DRAINS SHALL DRAIN TO UPC APPROVED RECEPTACLES, FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
16. ALL WATER PIPING AND FINAL CONNECTIONS FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
17. ALL EQUIPMENT DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE PER APPLICABLE CODES.
18. ALL LINE AND LOW VOLTAGE WIRING PLUS FINAL CONNECTIONS FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
19. DISCONNECTS, TOGGLE SWITCHES, CONDUITS, TRANSFORMERS AND TIME CLOCKS FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
20. THE ELECTRICAL & MECHANICAL CONTRACTOR SHALL REVIEW THE ELECTRICAL PLANS AND DIAGRAMS PRIOR TO STARTING WORK AND CONTACT THE AIR CONDITIONING INSTALLING CONTRACTOR IF CLARIFICATION IS NEEDED TO COMPLETE WIRING. THE ELECTRICAL & MECHANICAL CONTRACTOR, IN THE PRESENCE OF THE HVAC CONTRACTOR, SHALL PERFORM A SATISFACTORY OPERATIONAL CONTROL SEQUENCE BY RINGING OUT ALL CIRCUITS AND CORRECTING ANY WIRING ERRORS.
21. THE ELECTRICAL CONTRACTOR IS NOT TO START THE EQUIPMENT UNLESS IN THE PRESENCE OF THE HVAC CONTRACTOR.

TESTING AND ADJUSTING

1. THE HVAC CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, EQUIPMENT AND ALL CONTRACTUAL EXPENSES REQUIRED FOR THE COMPLETE TESTING AND ADJUSTING THE ENTIRE HVAC SYSTEMS & CONTROL AND THE WORK SHALL BE IN COMPLIANCE WITH THE FOLLOWING RULES AND REGULATIONS.
   1.1. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH INDUSTRY BEST PRACTICES AND APPLICABLE STANDARDS ON EACH SYSTEM.
   1.2. IN ADDITION TO TESTING AND ADJUSTING, THE SYSTEMSYSTEMS SHALL BE AIR BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS: THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; OR ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS.
   1.3. AFTER COMPLETION OF TESTING, ADJUSTING, AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
   1.4. PROVIDE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARRANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.
   1.5. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
2. THE HVAC SYSTEMS INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
   2.1. AIR HANDLERS & PACKAGE A/C UNITS.
   2.2. AIR DIFFUSERS, REGISTERS, AND GRILLES.
   2.3. EXHAUST/TRANSFER FANS.
   2.4. SPLIT D/X A/C UNITS.
   2.5. FRESH AIR INTAKE AND EXHAUST VENTS/LOUVERS.
   2.6. AN AIR BALANCE TEST WILL BE REQUIRED TO VERIFY THE PROPER AMOUNT OF OUTSIDE AIR TO COMPLY WITH APPLICABLE CODE VENTILATION REQUIREMENTS, BEFORE THE FINAL APPROVAL OF THIS PROJECT.
3. THE HVAC CONTRACTOR SHALL WORK IN CONJUNCTION WITH AND INTERFACE WITH THE FMS CONTRACTOR IN GETTING THE A/C SYSTEMS CONTROL, DEMAND VENTILATION CONTROL, TO A FUNCTIONAL STAGE AND MEET THE DESIGN INTENT.

COVER DUCT OPENINGS DURING CONSTRUCTION

1. THE HVAC CONTRACTOR SHALL COVER DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.

TEMPORARY VENTILATION

1. THIS HVAC SYSTEM WILL BE USED DURING CONSTRUCTION TO PROVIDE TEMPORARY VENTILATION. THE RETURN AIR FILTERS WITH MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON ASHRAE 52.1-1992. CONTRACTOR TO REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.

INTENDED OPERATION OF DEMAND VENTILATION SYSTEM

1. AVERAGE THE CO2 CONCENTRATION OF THE TWO (2) CO2 SENSORS LOCATED ON THE SALES FLOOR. IF THE AVERAGED CO2 CONCENTRATION IS GREATER THAN 600 PPM PLUS THE OA CO2 CONCENTRATION, OPEN OA DAMPER TO ACHIEVE THE MENTIONED CO2 CONCENTRATION.
2. AS THE AVERAGED CO2 CONCENTRATION IS REDUCED TO LESS THAN 600 PPM PLUS OA CO2 CONCENTRATION, CLOSE THE MODULATED OA DAMPER PROPORTIONALLY.
3. DEMAND VENTILATION OPERATION IS ONLY APPLIED WHEN THE AC UNITS ARE IN EITHER HEATING OR COOLING MODE.

DUCT SMOKE DETECTORS

1. DUCT SMOKE DETECTORS SHALL COMPLY WITH UL 268A, SHALL BE LABELED BY AN APPROVED AGENCY, APPROVED AND LISTED BY THE STATE FIRE MARSHAL, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. [IMC 606]

MECHANICAL SHEET INDEX

Sheet Number	Sheet Name
M0-01	GENERAL NOTES AND SPECIFICATIONS
M1-01	HVAC FLOOR PLAN
M1-21	HVAC ROOF PLAN
M1-31	HVAC ENERGY MGMT AND WIRING DIAGRAMS
M5-01	HVAC EQUIPMENT DETAILS
M5-21	HVAC INSTALLATION DETAILS
M6-01	HVAC SCHEDULES AND CALCULATIONS
M7-01	ENERGY COMPLIANCE FORMS
M7-02	ENERGY COMPLIANCE FORMS

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OREGON
DEC. 31, 2026
REZA NOROUZI

PROFESSIONAL IN CHARGE
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PROJECT MANAGER
GH
QUALITY CONTROL
GP
DRAWN BY
ZA

PROJECT NAME

CENTRAL POINT, OR

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE

GENERAL NOTES AND SPECIFICATIONS

SHEET NUMBER

M0-01

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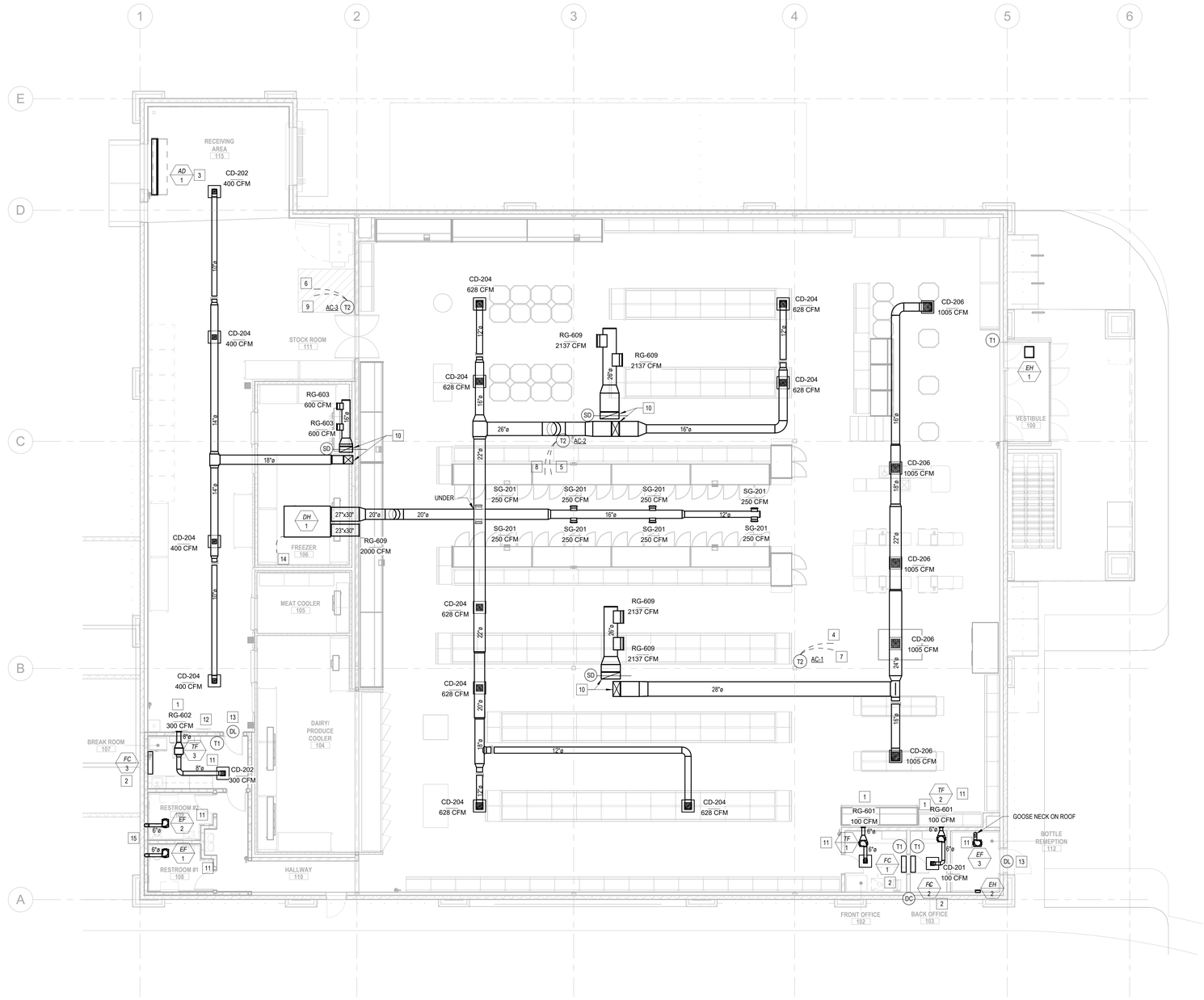

HVAC FLOOR PLAN SHEET NOTES

1. LOCATE HIGH ON WALL. COORDINATE GRILLE WITH STORE DECOR. CONTRACTOR SHALL VERIFY GRILLE LOCATION IN FIELD WITH GROCERY OUTLET REPRESENTATIVE PRIOR TO INSTALLATION. CONFIRM FINAL LOCATION IS ACCEPTABLE WITH ENGINEER IF DIFFERENT THAN SHOWN ON PLAN (TYP)
2. P.C. TO DRAIN CONDENSATE TO AN APPROVED PLUMBING RECEPTOR. REFER TO PLUMBING PLANS (TYP FC-1, FC-2, & FC-3)
3. MAGNETIC DOOR LIMIT SWITCH (OPTIONAL ACCESSORY) SUPPLIED BY MANUFACTURER, INSTALLED BY M.C., FIELD WIRED BY E.C.
4. AC-1 SENSOR AT +6'-0" A.F.F.
5. AC-2 SENSOR AT +6'-0" A.F.F.
6. AC-3 SENSOR AT +6'-0" A.F.F.
7. (1) 2C & (1) 6C 18GA AWG TO AC-1 CONTROL PANEL ON ROOF
8. (1) 2C & (1) 6C 18GA AWG TO AC-2 CONTROL PANEL ON ROOF
9. (1) 2C & (1) 6C 18GA AWG TO AC-3 CONTROL PANEL ON ROOF
10. SUPPLY AND RETURN AIR PLENUMS CONNECT TO RTU (TYP 2 PLCS)
11. PROVIDE AN ACCESS PANEL FOR EXHAUST/TRANSFER FAN. COORDINATE FINAL LOCATION IN FIELD WITH A.O.R & E.O.R PRIOR TO INSTALLATION.
12. ROOF ACCESS LADDER
13. PROVIDE 24" x 24" DOOR LOUVER WITH A FREE AREA THAT PERFORMS TO A MAX .06 PRESSURE DROP. MANUFACTURER TO BE ANEMOSTAT AND MODEL TO BE AFDL OR EQUAL.SEE ARCH DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
14. 2C 18GA AWG TO RACK PANEL (RO POINT FOR DH-1)
15. 6"Ø EXH DUCT TO 8"Ø U.T.R. TO VENT CAP

HVAC SYMBOLS LEGEND

SYMBOL	ABBR.	DESCRIPTION
		RETURN ARROW
		DUCT STRIP-HEAT
		VOLUME DAMPER
		BALANCING DAMPER
BD	BD	BACK DRAFT DAMPER
ZD	ZD	ZONE DAMPER, CLOSE ON HEAT
FD	FD	FIRE DAMPER
FS	FS	FIRE / SMOKE DAMPER
SD	SD	DUCT SMOKE DETECTOR
DC	DC	DOOR UNDER CUT
DL	DL	DOOR LOUVER
J	J	ELECTRICAL JUNCTION BOX
T	T	SPACE TEMPERATURE SENSOR 2C 18AWG SHIELDED CABLE IN CONDUIT TO CONTROL PANEL BY E.C.
T_1	T_1	PROGRAMMABLE T-STAT W/ NIGHT SET BACK
T_2	T_2	RELATIVE HUMIDITY, C02 AND TEMP COMBO SENSOR

HVAC ANNOTATIONS

ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
S.A.	SUPPLY AIR	F.P.S.	FEET PER SECOND
R.A.	RETURN AIR	S.F.	SQUARE FOOT
E.A.	EXHAUST AIR	E.S.P.	EXTERNAL STATIC PRESS.
O.S.A.	OUTSIDE AIR	M.V.D.	MANUAL VOLUME DAMPER
T.A.	TRANSFER AIR	A.F.F.	ABOVE FINISHED FLOOR
EXH	EXHAUST	P.O.C.	POINT OF CONNECTION
DN	DOWN	P.O.D.	POINT OF DISCONNECTION
U.T.R.	UP THRU ROOF	N.I.C.	NOT IN CONTRACT
D.T.R.	DOWN THRU ROOF	S.S.	STAINLESS STEEL
C.F.M.	CUBIC FEET PER MINUTE	W/	WITH
M.V.D.	MANUAL VOLUME DAMPER		

1 M1-01 HVAC FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTES:

1. BOTTOM OF DIFFUSERS MOUNTED AT OR ABOVE LEVEL OF LIGHTS, TYPICALLY 14'-0" A.F.F.
2. BALANCING DAMPERS SHALL BE INSTALLED AT THE COLLAR OF DUCT MOUNTED DIFFUSERS.
3. ALL SUPPLY AND RETURN DUCTS INSTALLED IN AN INDIRECTLY CONDITIONED SPACE TO BE INSULATED TO R-4.2 MIN.
4. ALL SUPPLY AND RETURN DUCTS INSTALLED IN AN UNCONDITIONED SPACE TO BE INSULATED TO R-8 MIN.
5. ALL SUPPLY AND RETURN DUCTS INSTALLED IN THE CONDITIONED SPACE DO NOT REQUIRE INSULATION. INSULATE ROOF-TOP UNIT SUPPLY DUCTING INDOORS AT ROOF ENTRY POINT WITH R-4.2 MIN. FOR 10 FEET MIN.

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CENTRAL POINT, OR
97502

PROJECT NUMBER 24-14140-01

SHEET TITLE
HVAC FLOOR PLAN

SHEET NUMBER
M1-01

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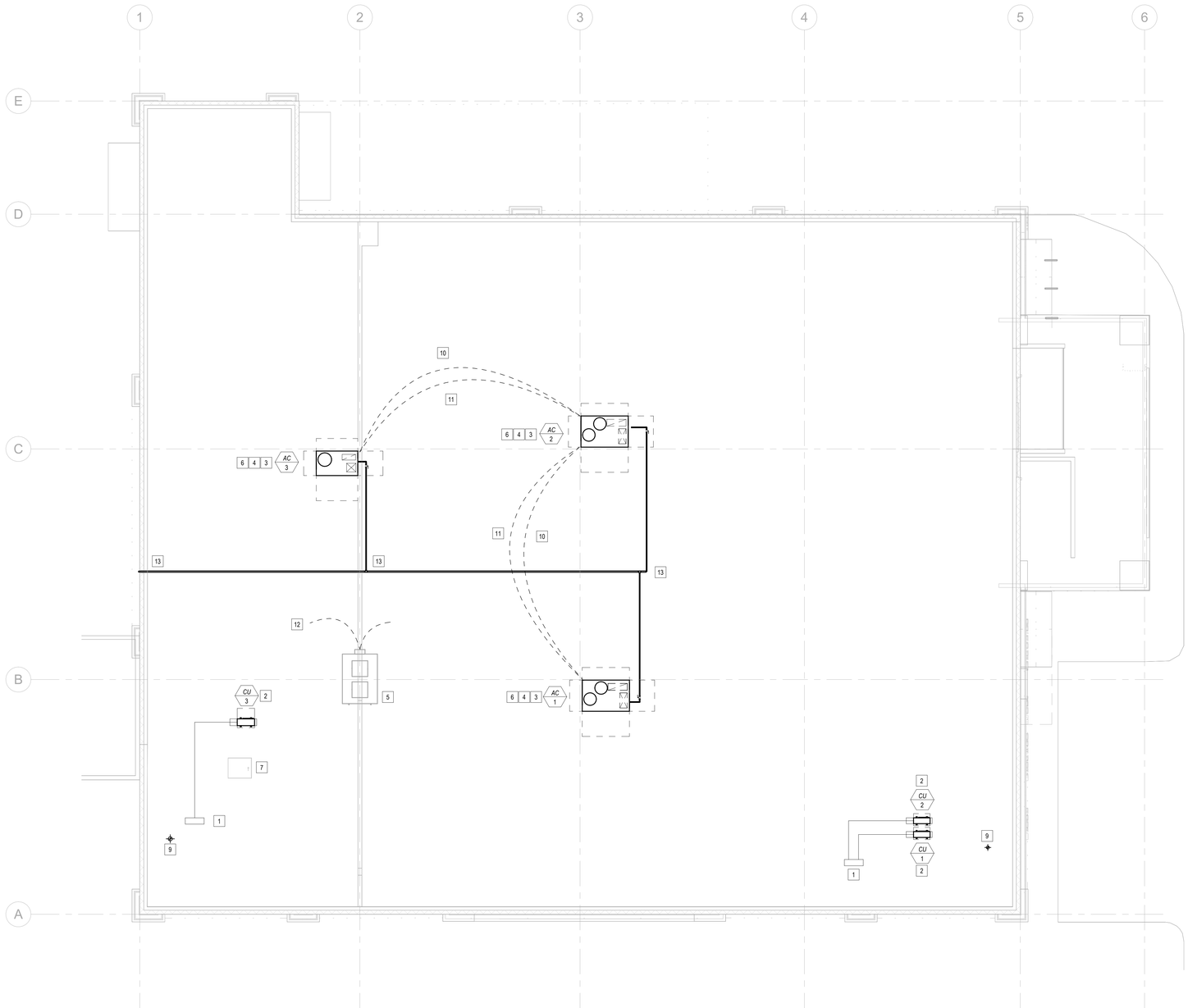

1 M1-21 HVAC ROOF PLAN
SCALE: 1/8" = 1'-0"

HVAC ROOF PLAN SHEET NOTES

1. G.C. TO PROVIDE WEATHER TIGHT ROOF OPENING FOR CONDENSING UNIT LINES 12" X 4" ID. COORDINATE SIZE AND LOCATION WITH M.C.
2. G.C. TO PROVIDE LEVEL PRESSURE TREATED SLEEPERS TO ACCOMMODATE HVAC CONDENSING UNIT. G.C. TO VERIFY LOCATION (TYP)
3. G.C. TO PROVIDE ROOF OPENINGS FOR DUCTWORK CONNECTED AT BOTTOM OF UNIT REFER TO STRUCTURAL PLANS FOR FRAMING DETAILS (TYP)
4. G.C. TO PROVIDE LEVEL SURFACE TO ACCEPT FACTORY CURB G.C. TO VERIFY LOCATION REFER TO STRUCTURAL PLANS (TYP 2 PLCS)
5. CONDENSER. REFER TO REFRIG PLANS
6. P.C. TO RUN CONDENSATE TO APPROVED PLUMBING RECEPTOR REFER TO PLUMBING PLANS (TYP 2 PLCS)
7. ROOF HATCH
8. ROOF OPENING FOR CONDENSER LINES REFER TO REFRIG PLANS
9. VENT CAP LOCATE MINIMUM 10'-0" FROM ALL FRESH AIR INTAKES
10. 2 18GA SMOKE DETECTOR INTERLOCK WIRING (TYP)
11. 2-COND 18GA COMM. CABLE (TYP)
12. 2-COND 18GA COMM. CABLE TO RACK CONTROL PANEL
13. GAS PIPING, REFER TO PLUMBING SHEETS

ROOF LEGEND

- TYPICAL ROOF OPENING
- ROOF MOUNTED EXHAUST FAN LOCATION
- GAS SUPPLY W/ SHUTOFF VALVE LOCATED NEXT TO UNIT, BY P.C. REFER TO PLUMBING PLANS

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CENTRAL POINT, OR
97502

PROJECT NUMBER 24-14147-01

SHEET TITLE

HVAC ROOF PLAN

SHEET NUMBER

M1-21

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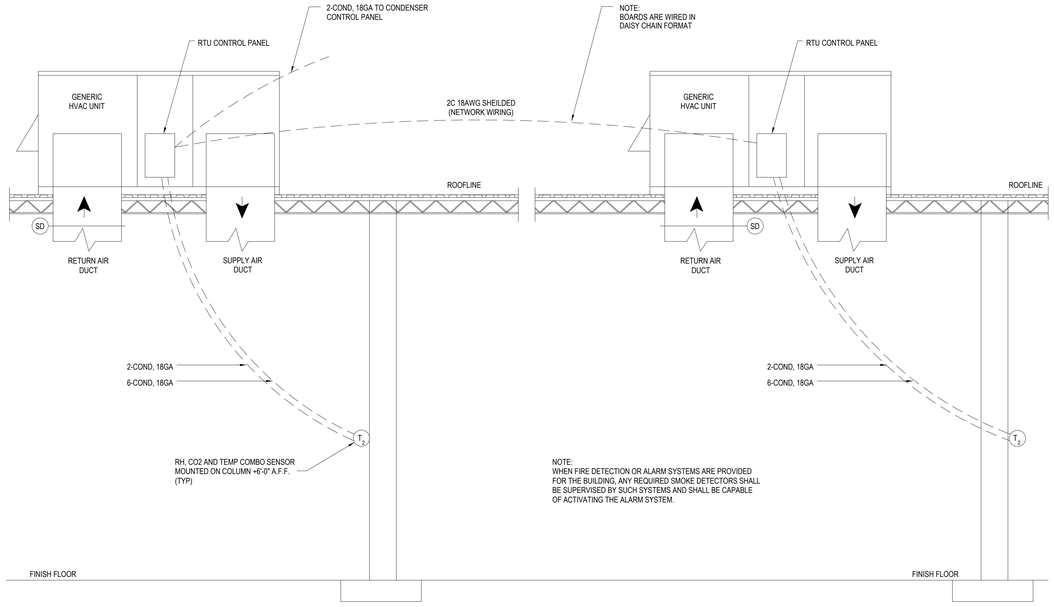


1 M1-31 HVAC RTU ENERGY MANAGEMENT DETAIL

EMS INSTALLATION NOTES

1) THE ELECTRICAL CONTRACTOR IS TO REVIEW THESE PLANS AND DIAGRAMS PRIOR TO STARTING WORK AND IS TO CONTACT HVAC AND REFRIGERATION CONTRACTOR IF CLARIFICATION IS NEEDED. UPON COMPLETION OF THE HVAC RELATED ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR, IN THE PRESENCE OF THE HVAC AND REFRIGERATION CONTRACTOR, IS TO PERFORM A COMPLETE TESTING OF ALL CIRCUITS AND MAKE ANY CORRECTIONS NECESSARY. THE ELECTRICAL CONTRACTOR IS NOT TO START ANY HVAC RELATED EQUIPMENT WITHOUT THE AUTHORIZATION OF HVAC CONTRACTOR.

2) ALL WIRING, CONDUIT, COMPONENTS, AND HIGH VOLTAGE CONNECTIONS ARE TO BE MADE BY THE ELECTRICAL CONTRACTOR. ALL WIRING IS TO BE COPPER. NO ALUMINUM WIRING IS TO BE PERMITTED. ALL WORK IS TO MEET APPLICABLE CODES. REFRIGERATION CONTRACTOR IS TO MAKE ALL LOW VOLTAGE WIRING CONNECTIONS TO CPC PANELS AND SENSORS. ELECTRICAL CONTRACTOR IS TO PULL ALL LOW VOLTAGE WIRING.

3) ALL LOW VOLTAGE WIRING IS TO BE MINIMUM 18 GAUGE SHIELDED CABLE RUN IN SEPARATE CONDUIT FROM ANY OTHER HIGH VOLTAGE SOURCE.

4) IN ALL INSTANCES THE ELECTRICAL CONTRACTOR IS TO CLEARLY TAG ALL CABLES AT EACH END FOR TERMINATION IDENTIFICATION. THE FOLLOWING INFORMATION IS TO APPEAR ON EACH TAG:

(A) POINT NAME
(B) ORIGINATION

5) THE ELECTRICAL CONTRACTOR IS TO TAG ALL HIGH VOLTAGE WIRES SIMILAR TO ABOVE.

6) THE ELECTRICAL CONTRACTOR IS TO PROVIDE CABLE OF SUFFICIENT LENGTH TO EASILY COMPLETE ALL TERMINATIONS. THE ELECTRICAL CONTRACTOR IS TO NEATLY COIL AND SECURE ALL CABLES AT THE CONDUIT ENDS.

7) SPLICES IN THE EMS CABLE ARE NOT PERMITTED OTHER THAN WHERE CONNECTING TO SENSORS.

8) ALL HIGH VOLTAGE WIRING TO BE TERMINATED BY THE ELECTRICAL CONTRACTOR.

9) ALL CPC SENSORS, BOARDS AND TRANSFORMERS ARE TO BE SUPPLIED BY THE REFRIGERATION EQUIPMENT SUPPLIER. R.C. TO PROVIDE BOARD ENCLOSURE AS REQUIRED. CONNECTION OF THE SENSOR WIRES TO THE CABLE SHALL BE JOINED BY SOLDER JOINT, OR 3M UY CONNECTOR DO NOT USE WIRE NUTS FOR JOINTS/SPLICES.

10) ALL ENERGY MANAGEMENT WIRING MUST BE DONE IN CONJUNCTION WITH OTHER ELECTRICAL WORK AND MUST BE COMPLETED PRIOR TO THE HVAC EQUIPMENT START-UP. THE ELECTRICAL CONTRACTOR IS TO COORDINATE WORK WITH THE HVAC & REFRIGERATION CONTRACTOR FIELD REPRESENTATIVES AS NECESSARY.

11) THE CABLE SHIELD GETS TERMINATED AT ONE END ONLY - CPC BOARD END. THE SHIELD DOES NOT GET TERMINATED AT THE SENSOR END. SHIELD TO BE CUT BACK AND TAPED TO CABLE AT THE SENSOR END.

12) NETWORK WIRING TO BE IN DAISY CHAIN FORMAT.

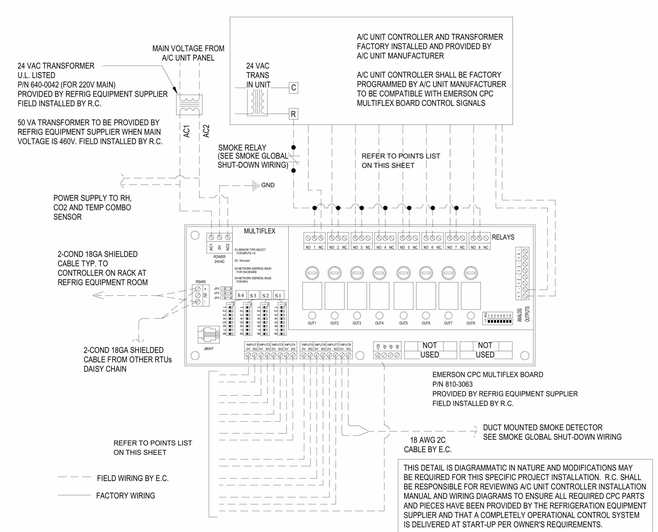
WIRING LEGEND

- FACTORY WIRING
- FIELD INSTALLED WIRING

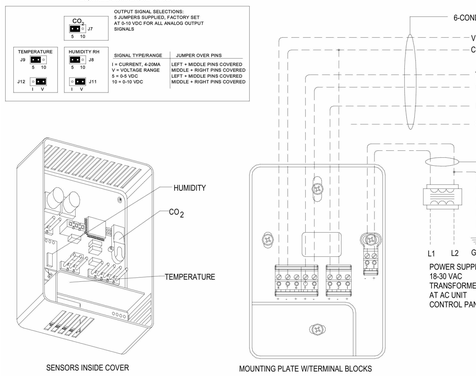
LEGEND

- (SA) - SUPPLY AIR TEMP SENSOR
- (RA) - RETURN AIR TEMP SENSOR
- (T_2) - RELATIVE HUMIDITY, CO2 AND TEMP COMBO SENSOR
- (SD) - SMOKE DETECTOR
- (OA) - OUTSIDE AIR TEMP SENSOR
- (T) - SPACE TEMP SENSOR

2 M1-31 NOTES AND LEGEND



3 M1-31 A/C UNIT CONTROL WIRING DIAGRAM



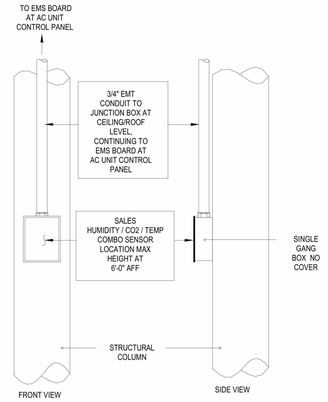
4 M1-31 WALL MOUNT HUMIDITY/CO2/TEMP COMBO SENSOR W/DISPLAY (TELAIRE MODEL T8100-H-GN)

SEQUENCE OF OPERATION

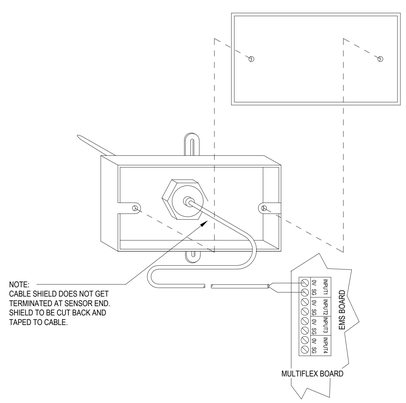
THE OUTSIDE AIR DAMPER WILL OPEN ON A SCALE OF 10-100% BASED ON CO2 LEVEL

SCALE RANGE:
MAXIMUM 750 PPM = 20% OPEN DAMPER TO 1000 PPM = 100% OPERATION.

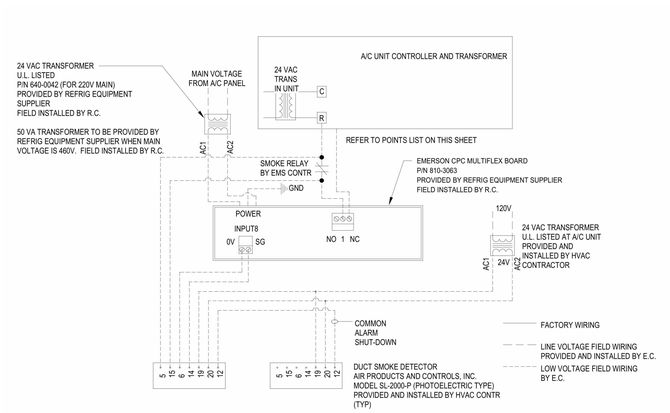
THE C02 VALUE CONTROLS OPERATION.



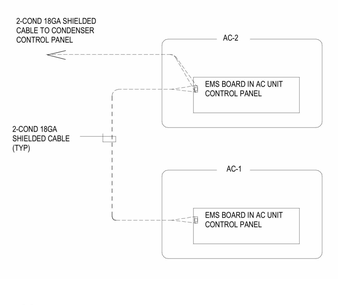
5 M1-31 TEMP / HUMIDITY/ C02 SENSOR MOUNTING DETAIL



6 M1-31 HVAC SUPPLY AIR TEMP SENSOR



7 M1-31 A/C UNIT SMOKE DETECTOR GLOBAL SHUT-DOWN WIRING DIAGRAM



8 M1-31 RTU NETWORKING DAISY CHAIN WIRING

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PROJECT NUMBER
24-CAMT-01

SHEET TITLE

HVAC ENERGY MGMT AND WIRING DIAGRAMS

SHEET NUMBER

M1-31

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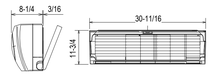
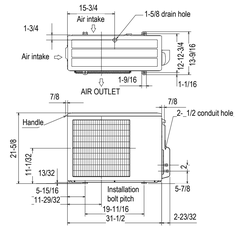
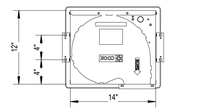


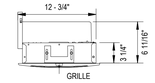
FAN COIL - MSZ



CONDENSING UNIT - MUZ

2 OFFICE SPLIT SYSTEM (MITSUBISHI MUZ/MSZ-A09)
M5-01 NOT TO SCALE





DIMENSIONS (INCHES)

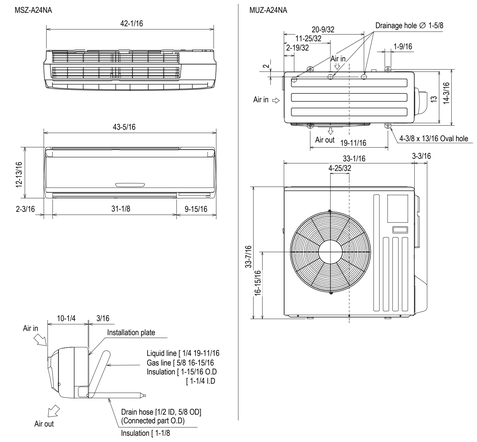
GRILLE MATERIAL	A	B
PLASTIC	13-1/4	15-1/2
STEEL	13-1/2	
ALUMINUM	13-3/4	

WEIGHTS (POUNDS)

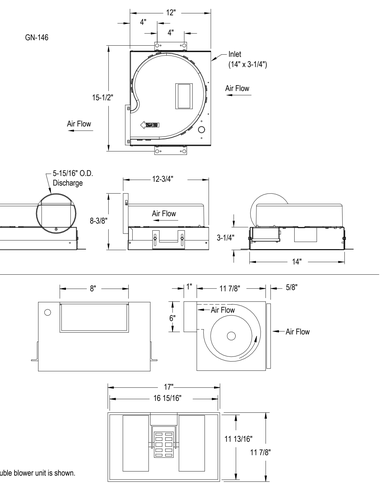
SIZE	SHIPPING WEIGHT
126-128	13
146-168	15
186-188	16

WEIGHTS ARE IN POUNDS.

3 CEILING EXHAUST FAN (COOK GC)
M5-01 NOT TO SCALE

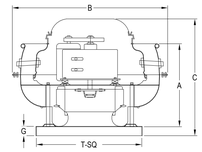


4 BREAK ROOM SPLIT SYSTEM (MITSUBISHI MUZ/MSZ-A24)
M5-01 NOT TO SCALE



Double blower unit is shown.

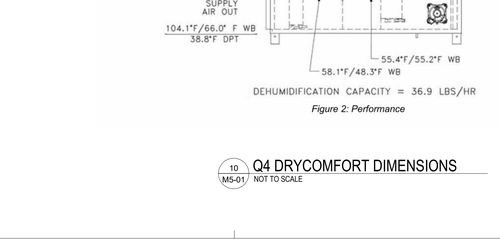
5 INLINE TRANSFER FAN (COOK GN)
M5-01 NOT TO SCALE



Dimensions are in inches

MODEL	A	B	C	G	T Sq.	Roof Opening Square
100	12 1/2	25 1/4	20 3/16	2	18	13 1/2
165	20 15/16	34 11/16	30 3/4	3	24	19 1/2

12 ROOF EXHAUST FAN
M5-01 SCALE: 1/8" = 1'-0"



CLEARANCES
THE FOLLOWING MINIMUM CLEARANCES MUST BE OBSERVED FOR PROPER UNIT PERFORMANCE AND SERVICEABILITY.

RECOMMENDED CLEARANCE in. [mm]	LOCATION
48 [1219]	A - FRONT
24 [609]	B - CONDENSER END
48 [1219] ①	C - DUCT END
24 [609] ②	*D - FILTER SIDE
60 [1524]	E - ABOVE

① 18" [457 mm] MINIMUM IF DRAINPAN WILL NOT BE REMOVED.
② 48" [1219 MM] MINIMUM IF ECONOMIZER IS INSTALLED.

[ ] Designates Metric Conversions

9 ROOFTOP PACKAGE AC UNIT CLEARANCES
M5-01 SCALE: 1/8" = 1'-0"

Recommended drain trap design (trap by others)

Threaded cap

Figure 3: Drain Trap Design

IMPORTANT: Drain Trap Note

Threaded vent cap on P-Trap is for ease of priming to assure proper condensate flow.

9 Q4 DRYCOMFORT CONDENSATE TRAP
M5-01 SCALE: 1/8" = 1'-0"

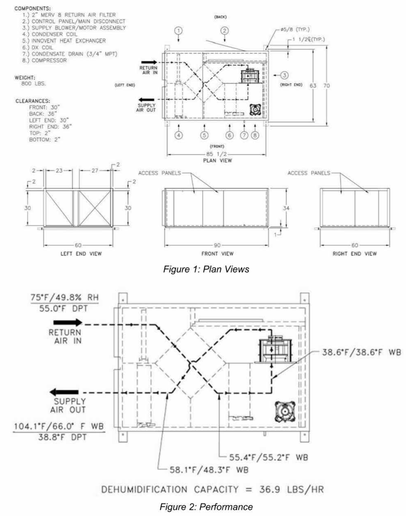
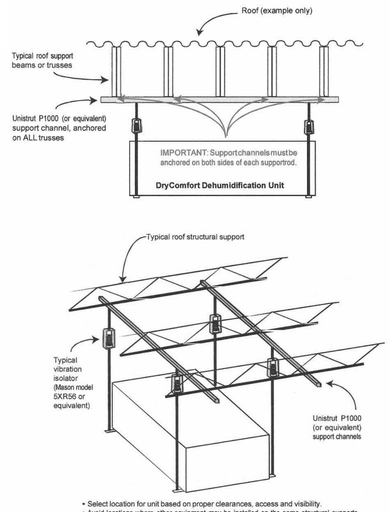


Figure 1: Plan Views

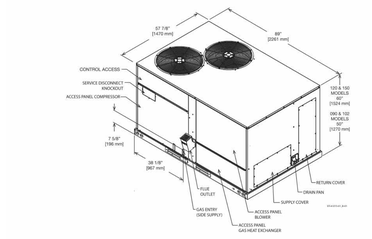
Figure 2: Performance

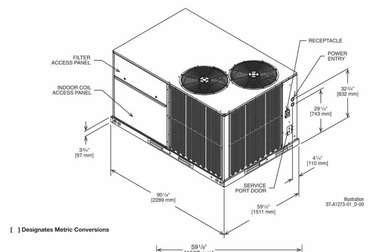
10 Q4 DRYCOMFORT DIMENSIONS
M5-01 NOT TO SCALE



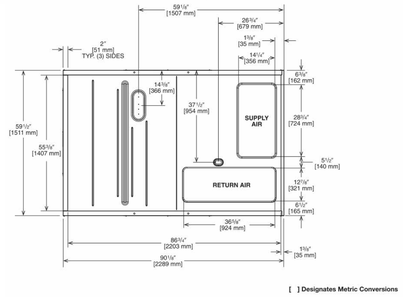
- Select location for unit based on proper clearances, access and visibility.
- Avoid locations where other equipment may be installed on the same structural supports.
- Install Unistrut P1000 (or equivalent) support channels, anchoring them to all structural supports.
- Install hanger-type vibration isolators on 5/8"-dia. threaded rods.
- Hang unit from vibration isolators on 5/8"-dia. threaded rods.
- Level unit.

11 Q4 DRYCOMFORT SUPPORT DETAILS
M5-01 NOT TO SCALE



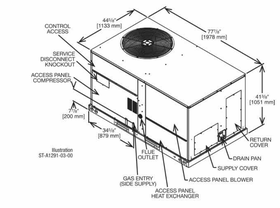


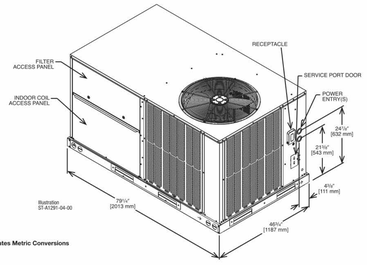
[ ] Designates Metric Conversions



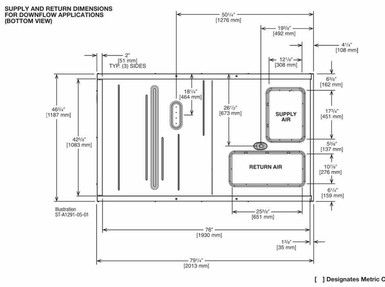
[ ] Designates Metric Conversions

6 ROOFTOP PACKAGE AC UNIT (AC-1,2) DIMENSIONS
M5-01 NOT TO SCALE





[ ] Designates Metric Conversions



[ ] Designates Metric Conversions

7 ROOFTOP PACKAGE AC UNIT (AC-3) DIMENSIONS
M5-01 SCALE: 1/8" = 1'-0"

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ISSUE/REVISION RECORD

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PROFESSIONAL IN CHARGE
GH

PROJECT MANAGER
GH

QUALITY CONTROL
SP

DRAWN BY
JA

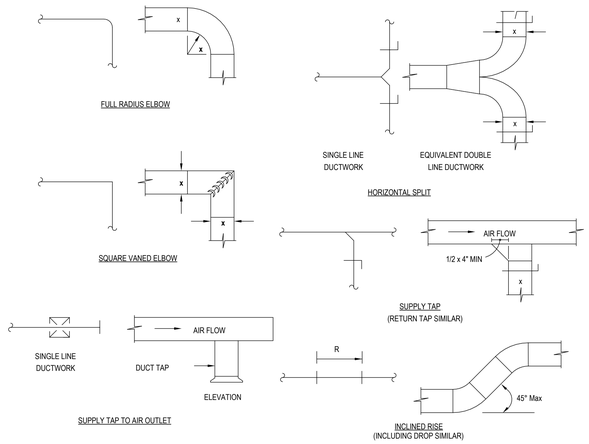
PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
24-CA140-01

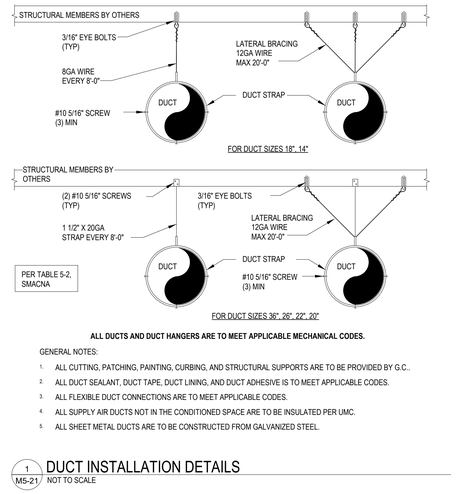
SHEET TITLE
HVAC EQUIPMENT DETAILS

SHEET NUMBER
M5-01

Last Modified: 2/25/2025, 8:19:52 AM Drawing Name: C:\Users\ymyer.jones\OneDrive - CoolSys, Inc\Documents\Q25_Central Point, OR_MEPR_R22_sheet-jones.rvt



2 TYPICAL SUPPLY AND EXHAUST DUCT CONNECTIONS
M5-21 NOT TO SCALE

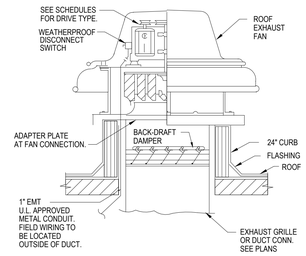


ALL DUCTS AND DUCT HANGERS ARE TO MEET APPLICABLE MECHANICAL CODES.

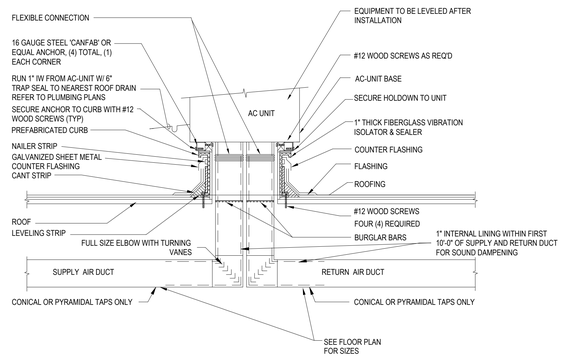
GENERAL NOTES:

1. ALL CUTTING, PATCHING, PAINTING, CURBING, AND STRUCTURAL SUPPORTS ARE TO BE PROVIDED BY G.C..
2. ALL DUCT SEALANT, DUCT TAPE, DUCT LINING, AND DUCT ADHESIVE IS TO MEET APPLICABLE CODES.
3. ALL FLEXIBLE DUCT CONNECTIONS ARE TO MEET APPLICABLE CODES.
4. ALL SUPPLY AIR DUCTS NOT IN THE CONDITIONED SPACE ARE TO BE INSULATED PER UMC.
5. ALL SHEET METAL DUCTS ARE TO BE CONSTRUCTED FROM GALVANIZED STEEL.

1 DUCT INSTALLATION DETAILS
M5-21 NOT TO SCALE



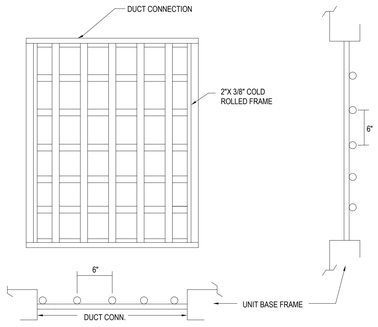
6 ROOF EXHAUST FAN DETAIL
M5-21 NOT TO SCALE



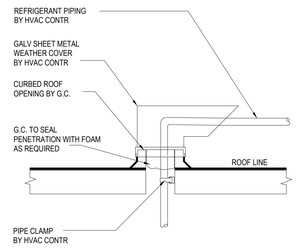
7 ROOF-TOP A/C UNIT MOUTING AND DUCT PENETRATION
M5-21 NOT TO SCALE

SECURITY BARS SHALL BE 1/2" REBAR, 6" O.C. EACH WAY, WELDED TO 2"X 3/8" COLD ROLLED STEEL FRAME. FRAME SHALL BE SECURED TO CURBED OPENING WITH VANDAL PROOF 1/2" DIA. LAG BOLTS BY G.C.

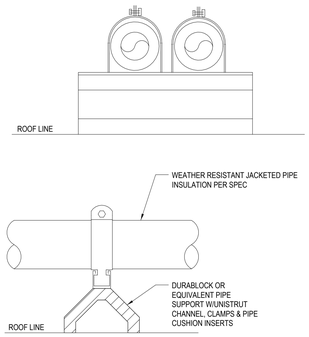
NOTE:
SECURITY BARS ARE REQUIRED IN ALL DUCTS OVER 12"X12"



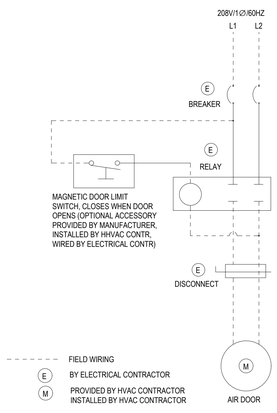
4 SECURITY BAR ASSEMBLY
M5-21 NOT TO SCALE



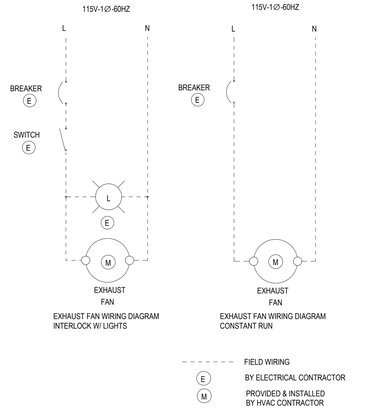
5 SPLIT SYSTEM PIPE CHASE HOOD
M5-21 NOT TO SCALE



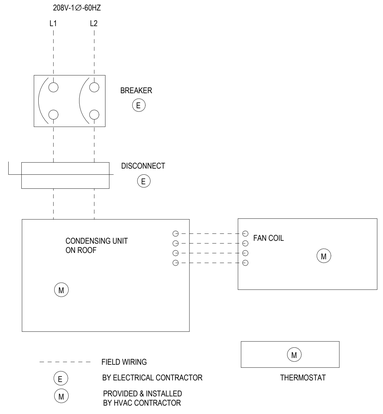
9 DURABLOCK PIPE SUPPORT DETAIL
M5-21 NOT TO SCALE



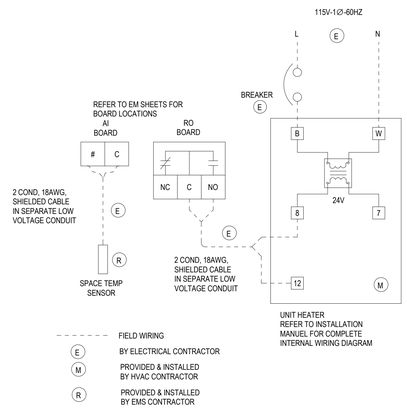
10 AIR DOOR WIRING DIAGRAM
M5-21 SCALE: 1/8" = 1'-0"



11 EXHAUST FAN/TRANSFER FAN WIRING DIAGRAM
M5-21 SCALE: 1/8" = 1'-0"



13 SPLIT SYSTEM WIRING DIAGRAM
M5-21 SCALE: 1/8" = 1'-0"



14 UNIT HEATER WIRING DIAGRAM
M5-21 SCALE: 1/8" = 1'-0"

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OREGON
DEC. 31, 2026
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PROJECT MANAGER
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QUALITY CONTROL
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PROJECT NAME

CENTRAL POINT, OR

4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE

HVAC INSTALLATION DETAILS

SHEET NUMBER

M5-21

Last Modified: 2/25/2025 8:19:03 AM Drawing Name: C:\Users\zayed.zaman\OneDrive - Cordoj Inc\Documents\GF_Central Point OR_MEPR_R22_zayed.zaman.rvt

CITY	CENTRAL POINT
STATE	OR
ELEVATION (FT)	1,309
CLIMATE ZONE	4C

OUTDOOR DESIGN CONDITIONS			
SEASON	CONDITION	DB (°F)	WCWB (°F)
SUMMER	0.4%	98.9	66.8
WINTER	99.6%	23.9	-

INDOOR DESIGN CONDITIONS						
	OCCUPIED SET POINTS			UNOCCUPIED SET POINTS		
SPACES	COOLING DB (°F)	HEATING DB (°F)	RH (%)	COOLING DB (°F)	HEATING DB (°F)	RH (%)
SALES FLOOR	75°F	70°F	45%	75°F	65°F	45%
OFFICES	75°F	70°F	45%	80°F	65°F	45%
BREAK ROOM	75°F	70°F	45%	80°F	65°F	45%
STOCK ROOM	80°F	65°F	45%	85°F	60°F	45%

EXHAUST AIR	MECHANICAL CODE §403				
SPACES	UNIT EXHAUST RATE (CFM/UNIT)	UNITS	EXHAUST RATE REQUIRED (CFM)	EXHAUST RATE PROVIDED (CFM)	UNIT PROVIDING EXHAUST AIR
RESTROOM	50	1	50	75	EF-1
RESTROOM	50	1	50	75	EF-2
MECH ROOM	3100	1	3000	3100	EF-3

VENTILATION AIR	MECHANICAL CODE §403								DESIGN RESULTS				
SPACES	OCCUPANCY CATEGORY	ZONE FLOOR AREA (SQFT)	PEOPLE OUTDOOR AIR RATE, Rp (CFM/OCC)	AREA OUTDOOR AIR RATE, Ra (CFM/SQ FT)	DEFAULT OCCUPANT DENSITY (OCC/1,000 SQFT)	ZONE POPULATION, Pz (OCC)	ZONE OUTDOOR AIRFLOW, Vbz (CFM)	ZONE AIR DISTRIBUTION EFFTNESS, Ez	ZONE OUTDOOR AIRFLOW, Voz (CFM)	ZONE OUTDOOR AIRFLOW REQUIRED, Voz (CFM)	ZONE OUTDOOR AIRFLOW PROVIDED (CFM)	ZONE PRIMARY AIRFLOW PROVIDED, Vpz (CFM)	ZONE PRIMARY OUTDOOR AIR FRACTION, Zpz	UNIT PROVIDING OUTDOOR AIR
SALES FLOOR	SUPERMARKET	10,888	7.5	0.06	8	87	1,307	1.0	1,307	1,307	1,500	8,500	0.15	AC-1,2
FRONT OFFICE	OFFICE	98	5.0	0.06	5	1	8	1.0	8	8	SALES XFR	100	0.08	TF-1
BACK OFFICE	OFFICE	58	5.0	0.06	5	0	5	1.0	5	5	SALES XFR	100	0.05	TF-2
BREAK ROOM	BREAK ROOM	137	5.0	0.06	25	4	26	1.0	26	26	SALES XFR	300	0.09	TF-3
STOCK ROOM	STORAGE	1,866	5.0	0.12	2	4	243	1.0	243	243	400	1,500	0.13	AC-3

EQUIPMENT SCHEDULE

ITEM NUMBER	DESCRIPTION	AREA SERVED	MFGR	MODEL	FURNISHED BY / INSTALLED BY	SUPPLY AIRFLOW	OUTSIDE AIR (CFM)	ESP (IN-WG)	COOLING CAPACITY (MBH)			HEATING CAPACITY (MBH)			MODE	ENTERING AIR (F)		LEAVING AIR (F)			ELECTRICAL					EFFICIENCY	WEIGHT (LBS)	REMARKS
									SENSIBLE	LATENT	TOTAL	TYPE	INPUT	OUTPUT		DB	WB	DB	WB	DP	VOLTAGE	PHASE	HP	MCA	MOCP			
AC-1,2	ROOFTOP PACKAGED AC UNIT	SALES FLOOR	Rheem	RGEDYB090ACG	GROCERY OUTLET/HVAC CONTR	5025 CFM	750	0.50 in-wg				NAT GAS			COOL/HEAT						208 V	3		41 A	60 A	14.6 SEER2/ 11.0 EER2	975 lb	1,5-6,8-18,22
AC-3	ROOFTOP PACKAGED AC UNIT	STOCK ROOM	Rheem	RGECYB036ACT	GROCERY OUTLET/HVAC CONTR	1600 CFM	400	0.50 in-wg				NAT GAS			COOL/HEAT						208 V	3		24 A	35 A	13.4 SEER2/10.6 EER2	640 lb	1,5-6,8-18,22
CU-1,2	DUCTLESS SPLIT HEAT PUMP CONDENSING UNIT	OFFICES	MITSUBISHI	MUZ-GL09NA-U8	HVAC CONTR				8.1	0.9	9.0	HEAT PUMP		10.9 MBH							208 V	1		9 A	15 A	24.6 SEER / 12.8 HSPF	91 lb	1,2,4
CU-3	DUCTLESS SPLIT HEAT PUMP CONDENSING UNIT	BREAK ROOM	MITSUBISHI	MUZ-GL24NA-U1	HVAC CONTR				20.2	2.2	22.4	HEAT PUMP		27.6 MBH							208 V	1		17 A	20 A	20.5 SEER / 10.0 HSPF	199 lb	1,2,4
DH-1	DEHUMIDIFICATION UNIT	SALES FLOOR	Q4 ENERGY SOLUTIONS	Q4DC-1-2000-SM-208	GROCERY OUTLET/HVAC CONTR	2000 CFM			36.8	41.8	78.6				DEHUM	55.4	55.2	38.6	38.6	38.1	208 V	3	2.55 SA FAN	36 A	50 A		800 lb	5,8,10.20-23
FC-1,2	DUCTLESS SPLIT HEAT PUMP FAN COIL	OFFICES	MITSUBISHI	MSZ-GL09NA-U1	HVAC CONTR	400 CFM	TRANSFER AIR FROM SALES								COOL/HEAT	75 / 70		58 / 95			208 V	1	0.2 SA FAN	1 A			22 lb	1-4
FC-3	DUCTLESS SPLIT HEAT PUMP FAN COIL	BREAKROOM	MITSUBISHI	MSZ-GL24NA-U1	HVAC CONTR	700 CFM	TRANSFER AIR FROM SALES		20.2	2.2	22.4	HEAT PUMP		27.6	COOL/HEAT	75.0/70.0		58.0/95.0			208 V	1	0.2 SA FAN	1 A			37 lb	1-4

EQUIPMENT SCHEDULE REMARKS
1. R-454B.
2. NON-FUSED DISCONNECTS BY E.C.
3. WIRELESS PROGRAMMABLE CONTROLLER.
4. PROVIDE WITH FACTORY DRAIN PAN AND CONDENSATE PUMP KIT AS NECESSARY.
5. FACTORY INSTALLED NON-FUSED DISCONNECT BY A/C UNIT MANUFACTURER.
6. MANUFACTURER PROVIDED A/C UNIT CONTROLLER SHALL BE FACTORY PROGRAMMED TO BE COMPATIBLE WITH EMERSON CPC MULTIFLEX BOARD CONTROL SIGNALS.
7. ECONOMIZER WITH FACTORY INSTALLED FAULT DETECTION & DIAGNOSTICS SYSTEM.
8. 120V CONVENIENCE OUTLET BY E.C.
9. FACTORY PROVIDED PREMIUM EFFICIENCY SUPPLY AIR BLOWER MOTOR AND VARIABLE SPEED CONTROLS.
10. FILTER TYPE MERV 13.
11. PROVIDE WITH DOWNWARD SUPPLY AND RETURN AIR OPENINGS.
12. PROVIDE WITH CONDENSATE OVERFLOW SWITCH.
13. PROVIDE WITH ROOF CURB.
14. PROVIDE WITH SEISMIC RESTRAINTS TO ATTACH TO ROOF CURB.
15. AIRFLOW SMOKE DETECTOR (ADDRESSABLE TYPE) AND INTERLOCKING WIRING BY HVAC CONTRACTOR.
16. NATURAL GAS HEATING.
17. DEHUMIDIFICATION HOT GAS REHEAT.
18. MOTORIZED OUTSIDE AIR DAMPERS.
19. NON-FUSED DISCONNECT INTEGRAL TO UNIT.
20. PROVIDE OVERFLOW DRAIN PAN UNDER UNIT.
21. SUSPEND FROM STRUCTURE ABOVE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
22. SERVICE RECEPTACLE IS PROVIDED BY THE MANUFACTURER AND SHALL BE INTEGRAL TO UNIT.

FAN SCHEDULE

ITEM NUMBER	DESCRIPTION	AREA SERVED	MANUFACTURER	MODEL	PROVIDED & INSTALLED BY	AIRFLOW (CFM)	ESP (In WG)	MOUNTING	ELECTRICAL				WEIGHT (LBS)	CONTROL	REMARKS
									VOLTAGE	PHASE	HP	FLA			
EF-1,2	EXHAUST FAN	RESTROOMS	COOK	GC-128	HVAC CONTR	75 CFM	0.13 in-wg	CEILING	120 V	1	29 W		11 lb	ON WITH LIGHTS	4,5
EF-3	EXHAUST FAN	BOTTLE ROOM	COOK	GC-128	HVAC CONTR	75 CFM	0.13 in-wg	CEILING	120 V	1	29 W		11 lb	ON WITH LIGHTS	4,5
TF-1,2	TRANSFER FAN	OFFICES	COOK	GN-128	HVAC CONTR	75 CFM	0.13 in-wg	INLINE	120 V	1	29 W		11 lb	ON WITH LIGHTS	5
TF-3	TRANSFER FAN	BREAK ROOM	COOK	GN-622	HVAC CONTR	475 CFM	0.13 in-wg	INLINE	120 V	1	144 W		26 lb	ON WITH LIGHTS	5

FAN SCHEDULE REMARKS
1. PROVIDE W/ FACTORY VENTED, HINGED CURB.
2. PROVIDE W/ FACTORY UNVENTED CURB.
3. G.C. TO PROVIDE LEVEL CURB TO RECEIVE FACTORY CURB.
4. PROVIDE WITH BIRDSCREEN.
5. PROVIDE WITH BACKDRAFT DAMPER.
6. FUSED DISCONNECT BY E.C.
7. BURGLAR BARS BY G.C.
8. POWERED FROM REFRIG COMPRESSOR RACK PANEL
9. PROVIDE WITH TWO SPEED FAN CONTROLLER

HEATER SCHEDULE

ITEM NUMBER	DESCRIPTION	MANUFACTURER	MODEL	PROVIDED & INSTALLED BY	TYPE	INPUT (MBH)	OUTPUT (MBH)	THROW (FT)	GAS CONNECTION SIZE	FLUE SIZE	MOUNT TYPE	ELECTRICAL					EFFICIENCY	WEIGHT (LBS)	REMARKS
												VOLTAGE	PHASE	HP	FLA	MOCP			
EH-1	ELECTRIC HEATER VESTIBULE	QMARK	CDF558	HVAC CONTR	ELEC.		17				SUSPENDED	208 V	1		24 A	30 A		27 lb	2,3,5,6,7
EH-2	ELECTRIC BOTTLE ROOM HEATER	QMARK	CWH 1208DSF	HVAC CONTR	ELEC.		6.8				WALL	208 V	1	2 KW				11 lb	2,3,5,6

HEATER SCHEDULE REMARKS
1. TWO STAGE HEAT.
2. INSTALL PER MANUFACTURER RECOMMENDATIONS.
3. ASSEMBLED AND MOUNTED IN FIELD.
4. CONTROLLED BY CPC.
5. EC TO VERIFY ALL EQUIPMENT AND WIRE UNIT.
6. EMS CONTRACTOR TO PROVIDE TEMPERATURE SENSOR WIRED BACK TO RACK PANEL.
7. EMS CONTRACTOR TO PROVIDE AUX RELAY.

DIFFUSERS, GRILLES AND REGISTERS SCHEDULE

ITEM NUMBER	MFGR.	MODEL	PROVIDED & INSTALLED BY	FLOW RANGE		MOUNTING	LISTED / NOM DUCT SIZE (IN)	REMARKS
				MIN	MAX			
CD-201	TITUS	MCD	HVAC CONTR	0 CFM	275 CFM	DUCT	6X6	1-3
CD-202	TITUS	MCD	HVAC CONTR	222 CFM	400 CFM	DUCT	8X8	1-3
CD-204	TITUS	MCD	HVAC CONTR	400 CFM	700 CFM	DUCT	12X12	1-3
CD-206	TITUS	MCD	HVAC CONTR	544 CFM	817 CFM	DUCT	16X16	1-3
RG-601	TITUS	350FL	HVAC CONTR	0 CFM	296 CFM	WALL/DUCT	8X8	2,3
RG-602	TITUS	350FL	HVAC CONTR	295 CFM	472 CFM	WALL/DUCT	10X10	2,3
RG-603	TITUS	350FL	HVAC CONTR	440 CFM	705 CFM	WALL/DUCT	12X12	2,3
RG-609	TITUS	350FL	HVAC CONTR	1875 CFM	2405 CFM	WALL/DUCT	24x24	2,3
SG-201	TITUS	DL	HVAC CONTR	0 CFM	325 CFM	WALL/DUCT	12X6	2,3

DIFFUSERS, GRILLES AND REGISTERS SCHEDULE REMARKS
1. DIFFUSER FRAME SHALL BE COMPATIBLE WITH CEILING TYPE.
2. FINISH SHALL BE BAKED ENAMEL TO MATCH ADJACENT SURFACES. COORDINATE WITH ARCHITECT FOR FINAL COLOR.
3. DESIGN INTENT IS NC <= 30. CONSULT WITH ENGINEERING PRIOR TO INSTALLATION OF ANY SELECTIONS WITH NC > 30.

AIR DOOR SCHEDULE

ITEM NUMBER	DESCRIPTION	MANUFACTURER	MODEL	PROVIDED & INSTALLED BY	SUPPLY AIR (CFM)	ELECTRICAL				WEIGHT (LBS)	REMARKS
						VOLTAGE	PHASE	HP	FLA		
AD-1	AIR DOOR STOCK ROOM	Mars Air	STD2-108-3UD-OB	HVAC CONTR	4137 CFM	208 V	1	1.5	8 A	175 lb	1,2

AIR DOOR SCHEDULE REMARKS
1. PROVIDE W/ FACTORY MOUNTING BRACKETS FOR OVER DOOR INSTALLATION. SUSPEND FROM STRUCTURE ABOVE.
2. PROVIDE W/ FACTORY MOUNTED CONTROL PANEL.
3. FURNISH WITH OPTIONAL MAGNETIC DOOR LIMIT SWITCH FROM MANUFACTURER, INSTALLED BY M.C., FIELD WIRED BY E.C. FAN TO SWITCH ON FAN WHEN DOOR IS OPEN.

TABLE 5.2 MINIMUM HANGER SIZES FOR ROUND DUCT (SMACNA)

DIAMETER (INCHES)	MAXIMUM SPACING	WIRE DIAMETER	ROD	STRAP
10 AND UNDER	12 FEET	ONE 12 GA	1/4 INCH	1" X 22 GA
11-18	12 FEET	TWO 12 GA OR ONE 8 GA	1/4 INCH	1" X 22 GA
19-24	12 FEET	TWO 10 GA	1/4 INCH	1" X 22 GA
25-36	12 FEET	TWO 8 GA	3/8 INCH	1" X 20 GA
37-50	12 FEET	-	TWO 3/8 INCH	TWO 1" X 20 GA
51-60	12 FEET	-	TWO 3/8 INCH	TWO 1" X 18 GA
61-84	12 FEET	-	TWO 3/8 INCH	TWO 1" X 16 GA
85-96	12 FEET	-	TWO 1/2 INCH	TWO 1-1/2" X 16 GA

NOTES:
1. STRAPS ARE GALVANIZED STEEL; RODS ARE UNCOATED OR GALVANIZED STEEL; WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL ARE ALTERNATIVES.
2. TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS ONE LB/SF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS. HANGER SPACING MAY BE ADJUSTED BY SPECIAL ANALYSIS.

TABLE 3.5 ROUND DUCT GAUGE UNREINFORCED POSITIVE PRESSURE TO 10" WG (SMACNA)

DIAMETER (INCHES)	SPIRAL SEAM
4	28
6	28
8	28
10	28
12	28
14	28
16	26
18	26
20	24
22	24
24	24
30	22
36	22
42	22
48	20

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/25	PERMIT SET

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REGISTERED PROFESSIONAL ENGINEER 97558PE OREGON DEC 31, 2026 REZA NOROUZI

PROFESSIONAL IN CHARGE RN
PROJECT MANAGER GH
QUALITY CONTROL GF
DRAWN BY ZA

PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER 24-CA140-01

SHEET TITLE
HVAC SCHEDULES AND CALCULATIONS

SHEET NUMBER
M6-01

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COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	Grocery Outlet - CENTRAL POINT, OR
Location:	Central Point (Jackson), Oregon
Climate Zone:	4c
Project Type:	Alteration

Construction Site:
4951 BIDDLE RD
CENTRAL POINT, Oregon 97502

Owner/Agent:
Grocery Outlet

Designer/Contractor:
Zavyer Archangel
CoolSys Energy Design
4275 N Palm St
Suite 100
Fullerton 92835
714-578-2300

Mechanical Systems List

Quantity **System Type & Description**

2 AC-1,2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 144 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 135 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Open Case Refrigeration
Proposed Efficiency = 12.00 EER, Required Efficiency = 10.80 EER
Proposed Part Load Efficiency = 18.20 IEER, Required Part Load Efficiency = 14.00 IEER
Fan System: FAN-1 | Sales Floor -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 5025 CFM, 5.0 motor nameplate hp, 1.00 fan energy index

2 AC-3 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 108 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 90 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 18.60 IEER, Required Part Load Efficiency = 14.60 IEER
Fan System: FAN-2 | Stock Room -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 4 Supply, Constant Volume, 1600 CFM, 3.0 motor nameplate hp, 1.00 fan energy index

1 CU/FC-1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 11 kBtu/h,
Proposed Efficiency = 12.80 HSPF2, Required Efficiency = 7.50 HSPF2
Cooling Mode: Capacity = 9 kBtu/h,
Proposed Efficiency = 24.60 SEER2, Required Efficiency = 14.30 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FAN-2 | Stock Room -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 4 Supply, Constant Volume, 1600 CFM, 3.0 motor nameplate hp, 1.00 fan energy index

1 CU/FC-2 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 11 kBtu/h,
Proposed Efficiency = 12.80 HSPF2, Required Efficiency = 7.50 HSPF2
Cooling Mode: Capacity = 9 kBtu/h,

Quantity **System Type & Description**

Proposed Efficiency = 24.60 SEER2, Required Efficiency = 14.30 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FAN-3 | Back Office -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 2 Supply, Constant Volume, 400 CFM, 0.2 motor nameplate hp, 1.00 fan energy index

1 CU/FC-3 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 28 kBtu/h,
Proposed Efficiency = 10.00 HSPF2, Required Efficiency = 7.50 HSPF2
Cooling Mode: Capacity = 22 kBtu/h,
Proposed Efficiency = 20.50 SEER2, Required Efficiency = 14.30 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FAN-4 | Break Room -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 3 Supply, Constant Volume, 740 CFM, 0.2 motor nameplate hp, 1.00 fan energy index

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

ZAVYER ARCHANGEL — Name - Title
Zavyer Archangel — Signature
2-19-25 — Date

COMcheck Software Version COMcheckWeb
Inspection Checklist
Energy Code: 2021 IECC

Requirements: 12.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][1]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.12.3 [ME61][2]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.4 [ME142][2]	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.6 [ME143][2]	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.9 [ME144][2]	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.13.1 [ME71][2]	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3 [ME55][2]	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.5.5 [ME113][2]	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.2 [ME115][1]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.6 [ME141][1]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.5 [ME116][1]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.12.1 C403.12.2 [ME60][2]	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME62][1]	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.2 [ME16][1]	Economizer operation will not increase heating energy use during normal operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.3 [ME124][1]	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.4 [ME125][1]	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.5 [ME126][1]	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.4.3.2 [ME121][1]	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.4 [ME63][1]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3.3 [ME35][1]	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.2.1 [ME53][1]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.11.3, C403.11.3.1, C403.11.3.2 [ME123][1]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/25	PERMIT SET

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER 97558PE OREGON DEC 31, 2026 YEZA NOROUA

PROFESSIONAL IN CHARGE
ZA

PROJECT MANAGER
GH

QUALITY CONTROL
SP

DRAWN BY
ZA

PROJECT NAME

CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA145-01

SHEET TITLE
ENERGY COMPLIANCE FORMS

SHEET NUMBER
M7-01

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [FI8][1]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.1.1 [FI50][1]	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3.1 [FI27][1]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1 [FI47][1]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.1 [FI42][1]	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.2 [FI38][1]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.3 [FI20][1]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2 [FI39][1]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2.1, C403.4.2.2 [FI40][1]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2.3 [FI41][1]	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.1 [FI31][1]	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.2 [FI10][1]	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.3 [FI32][1]	Economizers have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5 [FI7][1]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.2 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/25	PERMIT SET

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
97558PE
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DEC 31, 2026
REZA NOROUZI

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PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01
SHEET TITLE
ENERGY COMPLIANCE FORMS
SHEET NUMBER
M7-02

Last Modified: 2/25/2025 8:19:09 AM Drawing Name: C:\Users\jmyers\Jones\OneDrive - CoolSys Inc\Documents\025_Central Point OR_WEPR_R22_jmyers.rvt

SEISMIC RESTRAINTS GUIDELINES FOR PIPING

1. ALL SEISMIC RESTRAINTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SEISMIC RESTRAINT GUIDELINES MANUAL AND ALL CERTIFIED SUBMITTAL DATA.
2. TRANSVERSE BRACE SPACING SHALL NOT EXCEED 50 FEET UP TO 0.25g, 40 FEET UP TO 1.0g, AND 20 FEET UP TO 2.0g FOR STEEL AND COPPER PIPE WITH WELDED OR BRAZED CONNECTIONS. LONGITUDINAL SPACING SHALL NOT EXCEED 80 FEET UP TO 1.0g, AND 40 FEET UP TO 2.0g FOR STEEL AND COPPER PIPE WITH WELDED OR BRAZED CONNECTIONS.
3. STEEL AND COPPER PIPE WITH SCREWED CONNECTIONS BRACE SPACING SHALL NOT EXCEED 1/2 THE SPACING LISTED IN NOTE 2 GUIDELINES. FOR PVC, PVDF, FRP, AND OTHER SPECIALTY PIPING, BRACE SPACINGS SHALL NOT EXCEED 1/2 THE SPACINGS LISTED IN NOTE 2. ALL PIPE MUST BE CONSIDERED FULL OF WATER WHEN DETERMINING SEISMIC BRACE REQUIREMENTS UNLESS SPECIFICALLY ENGINEERED OTHERWISE.
4. TRANSVERSE RESTRAINT FOR ONE PIPE SECTION MAY ALSO ACT AS A LONGITUDINAL RESTRAINT FOR A PIPE SECTION OF THE SAME SIZE CONNECTED PERPENDICULAR TO IT IF THE RESTRAINT IS INSTALLED WITHIN 24-INCHES OF THE ELBOW OR TEE OR COMBINED STRESSES ARE WITHIN ALLOWABLE LIMITS AT LONGER DISTANCES.
5. HOLD DOWN CLAMPS MUST BE USED TO ATTACH PIPE TO ALL TRAPEZE MEMBERS BEFORE APPLYING RESTRAINTS.
6. BRANCH LINES MAY NOT BE USED TO RESTRAINT MAIN LINES.
7. PROVIDE REINFORCED CLEVIS BOLTS WHEN REQUIRED.
8. PIPING CROSSING BUILDING SEISMIC OR EXPANSION JOINTS, PASSING FROM BUILDING TO BUILDING, OR SUPPORTED FROM DIFFERENT PORTIONS OF THE BUILDING SHALL BE INSTALLED TO ALLOW DIFFERENTIAL SUPPORT DISPLACEMENTS WITHOUT DAMAGING THE PIPE, EQUIPMENT CONNECTIONS, OR SUPPORT CONNECTIONS. PIPE OFFSETS, LOOPS, ANCHORS, AND GUIDES SHALL BE INSTALLED AS REQUIRED TO PROVIDE SPECIFIED MOTION CAPABILITY AND LIMIT MOTION OF ADJACENT PIPING.
9. PROVIDE APPROPRIATELY SIZED OPENINGS IN WALLS, FLOORS, AND CEILINGS FOR ANTICIPATED SEISMIC MOVEMENT. PROVIDE FIRE SEAL SYSTEMS IN FIRE-RATED WALLS.
10. GAS PIPING LESS THAN 1" I.D. NEED NOT BE BRACED.
11. WHERE RIGIDLY SUPPORTED PIPES ARE CONNECTED TO EQUIPMENT WITH VIBRATION ISOLATION, THOSE CONNECTIONS MUST BE CAPABLE OF ACCOMMODATING SEISMIC DISPLACEMENTS. CONVERSELY, WHEN SMALLER UNSUPPORTED PIPES ARE CONNECTED TO RIGIDLY SUPPORTED EQUIPMENT, (i.e., COILS, etc.); THOSE JOINTS MUST BE CAPABLE OF ACCOMMODATING MOVEMENT OF THE PIPES.
12. RIGID PIPING SYSTEMS MAY NOT BE BRACED TO DISSIMILAR PARTS OF THE BUILDING OR TO DISSIMILAR BUILDING SYSTEMS WHICH MAY RESPOND DIFFERENTLY DURING AN EARTHQUAKE. DO NOT BRACE A SYSTEM TO TWO INDEPENDENT STRUCTURES SUCH AS CEILING AND WALL.
13. SEISMICALLY RESTRAIN ALL FUEL OIL PIPING, GAS PIPING, MEDICAL GAS PIPING, AND COMPRESSED AIR PIPING FOR FUEL OIL AND ALL GAS PIPING THAT IS 1" I.D. OR LARGER. TRANSVERSE RESTRAINTS MUST BE AT 20' MAXIMUM AND LONGITUDINAL RESTRAINTS AT 40' MAXIMUM SPACING.
14. PIPING LOCATED IN BOILER ROOMS, MECHANICAL EQUIPMENT ROOMS, AND REFRIGERATION EQUIPMENT ROOMS THAT IS 1-1/4" I.D. AND LARGER MUST BE SEISMICALLY RESTRAINED.
15. ALL OTHER PIPING 2-1/2" DIAMETER AND LARGER MUST BE SEISMICALLY RESTRAINED.
16. SEISMIC RESTRAINTS MAY NOT BE USED FOR ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED. HOWEVER, IF THE 12" LIMIT IS EXCEEDED BY ANY HANGER IN THE RUN, SEISMIC BRACING IS REQUIRED FOR THE RUN.
17. THE 12" EXEMPTION APPLIES FOR TRAPEZE SUPPORTED SYSTEMS IF THE TOP OF EACH ITEM SUPPORTED BY THE TRAPEZE QUALIFIES.
18. WHERE THERMAL EXPANSION IS A CONSIDERATION, GUIDES AND ANCHORS MAY BE USED AS TRANSVERSE AND LONGITUDINAL RESTRAINTS PROVIDED THEY HAVE A CAPACITY EQUAL TO OR GREATER THAN THE RESTRAINT LOADS IN ADDITION TO THE LOADS INDUCED BY EXPANSION OR CONTRACTION.
19. STEEL STRUTS SHALL BE 1-5/8" WIDE IN VARYING HEIGHTS AND MIG-WELDED COMBINATIONS AS REQUIRED TO MEET LOAD CAPACITIES AND DESIGNS INDICATED. A MATERIAL HEAT CODE, PART NUMBER, AND MANUFACTURER'S NAME SHALL BE STAMPED ON ALL STRUT AND FITTINGS TO MAINTAIN TRACTABILITY TO MATERIAL TEST REPORTS.
20. SEISMIC RESTRAINTS FOR PIPING SYSTEMS SHALL WITHSTAND A LATERAL FORCE EQUAL TO 50% OF THE WEIGHT OF THE PIPING SYSTEM AND ITS CONTENTS. SEISMIC BRACING SHALL CONFORM TO THE CURRENT ADOPTED EDITION OF THE ***OREGON*** BUILDING CODE AND THE ADMINISTRATIVE CODE. AND SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES FOR SEISMIC RESTRAINT, LATEST EDITION.
21. SPECIAL PIPE HANGER AND SUPPORT PROVISIONS REQUIRED FOR CONTROL OF PIPE EXPANSION, VIBRATION, AND SOUND TRANSMISSION IN CERTAIN PIPING SHALL BE DONE IN ACCORDANCE WITH GOOD SOUND ATTENUATION PRACTICE.
22. SUPPORT CHANNELS, FRAMES, BRACKETS, AND LEGS OF SPECIAL SUPPORTS SHALL BE OF UNISTRUT, SUPERSTRUT, OR ACCEPTED EQUAL, WITH CHANNELS, ATTACHING CLIPS, PIPE CLAMPS, AND OTHER REQUIRED ACCESSORIES.
23. PLASTIC PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH CODE REQUIREMENTS (REVIEW WITH JURISDICTION). SHIMS SHALL BE PROVIDED TO PREVENT PIPE SAG BETWEEN FITTINGS.
24. SPACING OF TRAPEZE HANGERS SHALL BE DETERMINED BY THE SMALLEST PIPE ON THE TRAPEZE. SIZES OF RODS FOR TRAPEZES SHALL BE GOVERNED BY THE LARGEST PIPE ON THE TRAPEZE.
25. TRAPEZE HANGERS SHALL NOT BE LIGHTER THAN 16 GAUGE AND, WHEN EXPOSED TO WEATHER, NOT LIGHTER THAN 12 GAUGE. PIPING THAT RUNS IN PARTITIONS AND IS NOT SUPPORTED FROM CEILING OR FLOOR SHALL BE SECURELY AND INDEPENDENTLY FASTENED TO THE PARTITION MEMBERS WITH CLAMPS OR BRACKETS.
26. LATERAL MOTION OF PIPING WILL NOT CAUSE DAMAGING IMPACT WITH SURROUNDING SYSTEMS (e.g. OTHER PIPE, DUCT, EQUIPMENT, SPRINKLER HEADS, etc.) OR CAUSE LOSS OF SYSTEM VERTICAL SUPPORT.
27. VERTICAL SUPPORT CONNECTIONS CANNOT DEVELOP MOMENTS (e.g. SWIVEL JOINTS, EYE BOLTS, VIBRATION ISOLATION HANGERS, etc.).
28. VERTICAL CAST IRON RISERS ATTACHED WITH SHIELD AND CLAMP ASSEMBLIES MUST BE STIFFENED AT THE CONNECTION POINTS OF ANY UNSUPPORTED SECTION OF PIPE.
29. VERTICAL RISERS IN AN OPEN SHAFT MUST BE ATTACHED TO THE SUPPORTS WITH CONNECTIONS SIZED TO ACCEPT THE HORIZONTAL SEISMIC LOADS.
30. WHERE EARTHQUAKE LOADS ARE APPLICABLE IN ACCORDANCE WITH THE BUILDING CODE, PLUMBING PIPING SUPPORTS SHALL BE DESIGNED AND INSTALLED FOR THE SEISMIC FORCES IN ACCORDANCE WITH THE BUILDING CODE.
31. HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENTS OF THE PIPING. HANGERS AND STRAPPING MATERIAL SHALL BE OF APPROVED MATERIAL THAT WILL NOT PROMOTE GALVANIC ACTION. HANGERS AND ANCHORS SHALL BE ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
32. RIGID SUPPORT SWAY BRACING SHALL BE PROVIDED AT CHANGES IN DIRECTION GREATER THAN 45 DEGREES FOR PIPE SIZES 4 INCHES AND LARGER.
33. ANCHORAGE SHALL BE PROVIDED TO RESTRAIN DRAINAGE PIPING FROM AXIAL MOVEMENT.
34. FOR PIPE SIZES GREATER THAN 4 INCHES, RESTRAINTS SHALL BE PROVIDED FOR DRAIN PIPES AT ALL CHANGES IN DIRECTION AND AT ALL CHANGES IN DIAMETER GREATER THAN 2 PIPE SIZES.

SPECIFICATIONS

SECTION 15400 - PLUMBING

1.00 - GENERAL

1.01 DESCRIPTION OF WORK

FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR AND/OR REASONABLY INCIDENTAL TO THE COMPLETION OF THE FOLLOWING WORK.

A. SANITARY WASTE AND VENT PIPING SYSTEM INCLUDING CONNECTIONS TO BUILDING SEWER AS SHOWN.

B. DOMESTIC HOT AND COLD WATER SYSTEMS INCLUDING WATER HEATER, AND RELATED ACCESSORIES AND CONTROLS. CONNECTION TO BUILDING WATER AS SHOWN.

C. PLUMBING FIXTURES, TRIM AND ACCESSORIES INCLUDING INSTALLATION AND SUPPORT.

D. FLASHING AND SEALING OF ROOF AND EXTERIOR WALL PENETRATIONS FOR WATER TIGHTNESS.

E. CAULKING AND SEALING OF FLOOR AND WALL PENETRATIONS AND FORMED SHAFT PENETRATIONS.

F. BACKING FOR SECURING FIXTURES, TRIM AND PIPING.

G. ACCESS DOORS WHERE SHOWN OR REQUIRED BY CODE.

H. HANGERS, SUPPORTS, AND GUIDES.

I. CLEANUP OF DEBRIS AND FINAL CLEANUP OF DRAINS, FIXTURES AND EQUIPMENT.

J. RECORD DRAWINGS AND OPERATING MANUALS.

K. LICENSE, PERMITS AND ASSOCIATED FEES.

L. CUTTING, DRILLING AND PATCHING FOR ALL SURFACES IN RELATION TO PLUMBING WORK.

M. CONDENSATE DRAINS FROM HVAC EQUIPMENT, AND GAS PIPING

1.02 RELATED WORK INCLUDED UNDER OTHER SECTIONS

A. HVAC AND ELECTRICAL WORK. 15500 AND 16000

B. FIRE PROTECTION WORK 153000 (IF APPLICABLE)

1.03 EXAMINATION OF SITE

A. VISIT SITE BEFORE SUBMITTING BID AND CHECK LOCATION OF ALL EXISTING CONDITIONS WHICH WILL AFFECT THIS WORK, VERIFY DIMENSIONS AND LOCATIONS SHOWN ON DRAWINGS AND COVER ALL COSTS. CONTRACTOR SHALL ASSUME REASONABLE VARIATIONS OR MINOR OMISSIONS AND SHALL COMPLETE PROPOSED WORK WITHOUT ADDITIONAL COST. FAILURE TO VISIT SITE WILL NOT LESSEN RESPONSIBILITY OR ENTITLE ADDITIONAL COMPENSATION FOR WORK NOT INCLUDED IN PROPOSAL.

B. VISIT SITE OF THE WORK, COMPARE IT WITH THE DRAWINGS AND SPECIFICATIONS AS TO THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED, ASCERTAIN AND CHECK ALL CONDITIONS AND ELEVATIONS AND TAKE ALL MEASUREMENTS WHICH MAY AFFECT THE WORK. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE FOR ANY EXTRA EXPENSE OR CLAIMS DUE TO FAILURE OR NEGLECT UNDER THIS REQUIREMENT TO MAKE SUCH EXAMINATION, INCLUDING EXAMINATION OF RESTRICTED WORKING CONDITIONS OR SUCH OTHER DIFFICULTIES VISUALLY OBSERVED DURING SITE VISIT. CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS WHICH WILL EXIST IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION AS INDICATED ON THE PLANS, SPECIFICATIONS, AND REQUIRED BY THE CODE.

1.04 DRAWINGS

THE ACCOMPANYING DRAWINGS SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS. WORK AND MATERIALS SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS AND VICE VERSA SHALL BE EXECUTED AS IF SPECIFICALLY MENTIONED OR SHOWN IN BOTH. THE DRAWINGS SHALL BE CONSIDERED AS SCHEMATIC IN NATURE AND MINOR MODIFICATIONS OF THE WORK TO COMPLY WITH THE STRUCTURE AS FOUND SHALL BE MADE.

1.05 RULES AND REGULATIONS

A. ALL WORK AND MATERIAL SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHAL AND OTHER APPLICABLE STATE AND LOCAL RULES AND REGULATIONS. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

B. FURNISH WITHOUT ANY EXTRA CHARGE ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED TO COMPLY WITH THESE LAWS, ORDINANCES AND CODES REGARDLESS OF WHETHER SHOWN OR MENTIONED IN THESE SPECIFICATIONS OF DRAWINGS.

C. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE LANDLORD'S MECHELECT. DESIGN CRITERIA. ALL CONTRACTORS SHALL OBTAIN A COPY FROM THE LANDLORD'S TENANT COORDINATOR OR MALL OPERATIONS MANAGER AND BECOME FAMILIAR WITH THE REQUIREMENTS CONTAINED WITHIN PRIOR TO BIDDING THE JOB. WHERE LANDLORD'S REQUIREMENTS CONFLICT WITH CODES OR ORDINANCES THE STRICTEST INTERPRETATION SHALL APPLY.

1.06 SUBMITTALS

A. SUBMIT FOR REVIEW TO THE OWNER A COMPLETE AND ALL-INCLUSIVE LIST OF EQUIPMENT AND MATERIALS PROPOSED FOR USE (6 COPIES), ACCOMPANIED BY MANUFACTURER'S DATA SHEETS. DATA SHALL BE FORWARDED IN A SINGLE PACKAGE WRITTEN 15 DAYS AFTER AWARD OF CONTRACT. SUBMIT SIX BLACKLINE PRINTS AND ONE REPRODUCIBLE SHOP DRAWING SHOWING PROPOSED PLUMBING INSTALLATION. INCLUDE SIZES, LOCATIONS AND OTHER REQUIRED INFORMATION TO COORDINATE INSTALLATION WITH OTHER TRADES.

B. WITHIN 5 DAYS AFTER AWARD OF CONTRACT, SUBMIT 6 COPIES OF A LETTER STATING ANY MATERIALS THAT CONTRACTOR WISHES TO SUBSTITUTE, TO THE OWNER FOR APPROVAL. INCLUDE SUCH INFORMATION AS MANUFACTURER'S NAME, TYPE OF MATERIAL, CERTIFIED RATINGS, OVERALL APPEARANCE, AND NECESSARY INFORMATION TO EXPLAIN FUNCTION AND OPERATION OF MATERIAL. ALL PROPOSED SUBSTITUTIONS SHALL BE EQUAL IN QUALITY, DESIGN, UTILITY AND APPEARANCE TO MATERIAL, EQUIPMENT OR METHOD SPECIFIED.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENGINEER WITH SUBMITTAL PACKAGES FOR REVIEW FOR ALL EQUIPMENT SPECIFIED ON THESE DRAWINGS. CONTRACTOR IS ONLY PERMITTED TO PURCHASE SPECIFIED EQUIPMENT FOLLOWING RECEIPT OF REVIEWED SUBMITTALS IN COMPLIANCE WITH ALL OF ENGINEER'S COMMENTS. IF CONTRACTOR PURCHASES ANY SPECIFIED EQUIPMENT WITHOUT SUBMITTING A SUBMITTAL AND RECEIVING ENGINEER COMMENTS, THEN CONTRACTOR IS TAKING SOLE RESPONSIBILITY FOR THE ACCURACY OF PURCHASED EQUIPMENT AND IS SOLELY RESPONSIBLE FOR REPLACING SAID EQUIPMENT IF IMPROPERLY FURNISHED.

1.07 AS-BUILT DRAWINGS

A SET OF PLUMBING PLANS WILL BE FURNISHED TO THE CONTRACTOR ON WHICH HE SHALL INDICATE THE INSTALLATION "AS-BUILT" AS THE WORK PROGRESSES. UPON COMPLETION OF THE WORK, A SET OR REPRODUCIBLE DRAWINGS SHALL BE OBTAINED FROM THE OWNER AT COST, AND ALL CHANGES AS NOTED ON THE RECORD SET OF PRINTS SHALL BE INCORPORATED THEREON. THIS SET OF REPRODUCIBLE, ALONG WITH ONE SET OF BLUEPRINTS, SHALL BE DELIVERED TO THE OWNER UPON COMPLETION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT.

1.08 GUARANTEE

THE CONTRACTOR SHALL LEAVE THE ENTIRE INSTALLATION IN COMPLETE WORKING ORDER FREE FROM ANY DEFECTIVE MATERIAL, WORKMANSHIP OR FINISH. HE SHALL GUARANTEE TO REPAIR OR REPLACE, WITHOUT CHARGE, DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF FILING OF THE NOTICE OF COMPLETION.

1.09 OPERATION MANUALS AND OWNER INSTRUCTIONS

A. PROVIDE COMPLETE OPERATION AND MAINTENANCE MANUALS COVERING ALL PLUMBING SYSTEMS AND EQUIPMENT THAT HAVE BEEN INSTALLED. THREE (3) COPIES OF THE MANUAL SHALL BE BOUND IN HARDBACK BINDERS.

B. PROVIDE INSTRUCTIONS TO OWNER AS TO OPERATION OF ALL EQUIPMENT. INSTRUCTION PERIOD TO COMMENCE FOR MINIMUM OF (2) HOURS AND SHALL BE SCHEDULED AT OWNER'S CONVENIENCE.

1.10 CUTTING AND PATCHING

A. THE CONTRACTOR SHALL DO ALL CUTTING, DRILLING AND PATCHING WHICH MAY BE REQUIRED FOR THE INSTALLATION OF THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS.

B. PATCHING SHALL BE OF THE SAME WORKMANSHIP, MATERIAL, AND FINISH AND SHALL MATCH ACCURATELY ALL SURROUNDING CONSTRUCTION IN A MANNER SATISFACTORY TO THE OWNER. NO CUTTING OF THE STRUCTURE SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE OWNER.

2.00 - MATERIALS - PIPING

BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH THE LOCAL AUTHORITY HAVING JURISDICTION. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.

A. INTERIOR UNDERGROUND STORM, SANITARY AND WASTE PIPING: SERVICE WEIGHT BELL AND SPIGOT CAST IRON OR NO-HUB C.I. PIPE AND FITTINGS, COMPLYING WITH CISPI STANDARDS, OR ABS DWV SCH40 IF ALLOWED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

B. INTERIOR DOMESTIC WATER PIPING ABOVE GROUND: 3" AND SMALLER - TYPE L HARD TEMPERED COPPER WITH SOLDER END FITTINGS. 95-5 TIN AND ANTIMONY SOLDER JOINTING (LEAD-FREE).

C. DOMESTIC WATER PIPING BELOW GROUND: TYPE K COPPER PIPE SHALL BE USED. WHEN PIPING IS INSTALLED WITHIN A BUILDING AND UNDER A CONCRETE SLAB, IT SHALL BE INSTALLED WITHOUT JOINTS. WHEN JOINTS ARE UNAVOIDABLE, THEY SHALL BE BRAZED.
   - PROTECTIVE PIPE COVERING SHALL BE FACTORY OR FIELD APPLIED ACCORDINGLY TO MANUFACTURERS WRITTEN INSTRUCTIONS.
   - 2 1/2" OR LARGER: PRODUCTS SHALL BE POLYKEN NO. 1027 PRIMER AND POLYKEN NO. 910 TAPE COATING, 10 MIL, MINIMUM 1" OVERLAP REQUIRED.
   - 2" AND SMALLER: PRODUCTS SHALL BE 10 MIL PLASTIC SLEEVE PROTECTOR.

D. CONDENSATE DRAIN PIPING: COPPER WATER TUBE ASTM B88, TYPE "M", SOLDER WITH 95-5 SOLDER, LEAD-FREE TYPE.

E. GAS PIPING: GALVANIZED STEEL, SCH 40 AND FITTINGS FOR OUTDOOR. BLACK STEEL, SCH 40 AND FITTINGS FOR INDOOR ABOVE GROUND. 3" AND SMALLER STEEL PIPES SHALL BE THREADED, 4" AND LARGER STEEL PIPES ARE TO BE WELDED. USE APPROVED POLYETHYLENE YELLOW PIPING (PE) FOR ALL OUTDOOR UNDERGROUND PIPING WITH 14 GAGE TRACER WIRE AND SHALL NOT COME IN CONTACT WITH PE PIPING. PE PIPE MUST BE JOINED BY HEAT FUSION METHOD OF CONNECTING PIPE AND FITTINGS OR APPROVED MECHANICAL FITTINGS.

2.01 PIPE FLASHINGS

4 LBS. LEAD WITH COUNTERFLASHING RING BY GLENCO, STONEMAN ENGINEERING OR APPROVED EQUAL.

2.02 VALVES

A. GATE VALVES: RED & WHITE 204 OR EQUAL, 3" AND SMALLER.

B. CHECK VALVES: RED & WHITE 238 OR EQUAL, 3" AND SMALLER.

C. BALL VALVES: NIBCO 580-70 OR EQUAL, 3" AND SMALLER.

2.03 PLUMBING FIXTURES AND TRIM

PLUMBING FIXTURES TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. SEE PLUMBING FIXTURE SCHEDULE.

2.04 PIPE HANGERS AND SUPPORTS

A. SUPERSTRUT, GRINNELL, OR APPROVED EQUAL.

B. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

C. PIPE HANGERS SHALL HAVE NON-METALLIC FELT OR ELASTOMERIC LINER OR WRAP APPLIED TO THE PIPE FOR ELECTROLYTIC PROTECTION WHERE HANGERS AND SUPPORTS ARE USED TO SUPPORT COPPER TUBING OR PIPE. THE LINER OR WRAP SHALL BE DESIGNED TO ALLOW EXPANSION OR CONTRACTION OF THE PIPING.

2.05 PIPE SLEEVES

SHALL BE PROVIDED TO PROTECT ALL PIPING THROUGH CONCRETE AND MASONRY WALLS. ANNULAR SPACES BETWEEN SLEEVES AND PIPES SHALL BE FILLED OR CAULKED IN AN APPROVED MANNER. ANNULAR SPACES BETWEEN SLEEVES AND PIPES IN FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE FILLED OR TIGHTLY CAULKED IN ACCORDANCE WITH THE BUILDING CODE. ALL UNDERSLAB CAST IRON PIPING SHALL BE COVERED WITH POLYETHYLENE SLEEVE (POLYWRAP) AND CONTRACTOR MUST FOLLOW MANUFACTURER'S MANUAL FOR PROPER INSTALLATION.

2.06 TEMPERATURE AND PRESSURE RELIEF VALVE

TEMPERATURE & PRESSURE RELIEF VALVE SHALL DISCHARGE FULL LINE SIZE TO AN APPROVED WASTE RECEPTOR THROUGH AN AIR GAP AS INDICATED ON PLANS OR 6" MINIMUM, 24" MAXIMUM.

2.07 SCALD GUARD PROTECTION

PROVIDE AND INSTALL LAVATORY SCALD PROTECTION FOR WASTE PIPING AND HOT WATER PIPING.

2.08 DOMESTIC PIPING INSULATION

A. PROVIDE AND INSTALL "INSULATION PROTECTION SHIELD" FOR PIPING WITH FOAM OR FIBERGLASS INSULATION.

B. INSULATE ALL RAINWATER PIPING WITH 1" THICK FIBERGLASS INSULATION BELOW THE DECK UP TO 25 FEET OF HORIZONTAL RUN.

C. INSULATE ALL HORIZONTAL WASTE PIPING (HUNG) WITH 1-1/2" THICK FIBERGLASS INSULATION ABOVE NOISE SENSITIVE AREAS ONLY. INSULATE ALL EXPOSED WATER PIPING AT THE TRASH ENCLOSURE.

D. INSULATE ALL DOMESTIC WATER PIPING OUTSIDE THE BUILDING OR ON ROOF WITH 1-1/2" THICK ARMSTRONG ARMAFLEX OR APPROVED EQUAL, AND SECTIONS BUTTED FIRMLY TOGETHER.

E. INSULATE ALL CONDENSATE DRAIN PIPING WITH 1/2" THICK ARMSTRONG ARMAFLEX OR EQUAL, AND SECTIONS BUTTED FIRMLY TOGETHER.

F. INSULATE ALL HOT WATER PIPING AND HOT WATER RETURN PIPING. THE INSULATION FOR HOT WATER AND RETURN PIPING SHALL HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN 1" FOR A PIPE UP TO 1" DIAMETER, 1.25" FOR 1-1/4" PIPE, 1.5" FOR 1-1/2" PIPE, 2" FOR 2" PIPE OR MORE IN DIAMETER.

G. PROVIDE AND INSTALL SCALD GUARD PROTECTION/INSULATION UNDER SINKS WITH EXPOSED P-TRAPS AND HOT WATER SUPPLIES.

H. ALL OUTDOOR INSULATION SHALL BE PROTECTED WITH ALUMINUM JACKET.

2.09 CLEANOUT

A. ACCESSIBLE CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE STACK AND RAINWATER LEADERS. ADDITIONAL CLEANOUT SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH HORIZONTAL CHANGE OF DIRECTION EXCEEDING 135 DEGREES. CLEANOUT MUST BE PROVIDED ON A HORIZONTAL DRAIN LINE EXCEEDING 5FT OR MORE IN LENGTH SERVING SINKS OR URINALS. AN APPROVED TYPE OF 2-WAY CLEANOUT FITTING SHALL BE INSTALLED OUTSIDE OF A BUILDING AT THE LOWER END OF A BUILDING DRAIN AND EXTENDED TO GRADE.

2.10 WATER HEATER

A. PROVIDE ANCHORS AND STRAPS TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION.

B. STRAPPING SHALL BE LOCATED UPPER 1/3 AND LOWER 1/3 OF ITS VERTICAL DIMENSIONS. STRAPS SHALL BE A MINIMUM 2"X16 GAGE PROPERLY SECURED TO WALL STUDS. ELEVATE WATER HEATER AT LEAST 4" MINIMUM ABOVE THE FINISHED FLOOR WITH AN APPROVED BASE. PROVIDE A 22 GAGE WATER TIGHT DRAIN PAN, CORROSION RESISTANT, AT THE BOTTOM OF THE WATER HEATER. DRAIN PAN SHALL HAVE A 3/4" DRAIN LINE TO BE DISCHARGED INTO AN APPROVED RECEPTOR BY MEANS OF AN AIR GAP. A PROPERLY SIZED THERMAL EXPANSION TANK SHALL BE PROVIDED AT THE WATER HEATER. HOT WATER SUPPLY FOR THE LAVATORIES AND HAND SINKS SHALL NOT EXCEED 110°F TEMPERATURE.

2.11 TRENCHING

A. ALL TRENCHES DEEPER THAN THE FOOTING OF ANY BUILDING OR STRUCTURE AND PARALLELING THE SAME SHALL BE AT LEAST 45 DEGREES THEREFROM.

3.00 - INSTALLATION AND EXECUTION

3.01 GENERAL

A. CAST-IRON HUBLESS WITH STAINLESS STEEL SHIELDED COUPLING SHALL BE SUPPORTED HORIZONTALLY AT EVERY OTHER JOINT, UNLESS OVER 4 FEET, THEN SUPPORT EACH JOINT ADJACENT TO JOINT, NOT TO EXCEED 15". BRACE AT NOT MORE THAN 40FT INTERVALS. SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION. HANGERS SHALL NOT BE PLACED ON THE COUPLING. SUPPORT VERTICAL PIPES AT THE BASE AND EACH FLOOR NOT TO EXCEED 15FT. HANGERS AND SUPPORTS FOR ALL PIPING SHALL COMPLY WITH THE LATEST PLUMBING CODE.

3.02 SPECIAL REQUIREMENTS, RESPONSIBILITIES AND TESTING

A. INSTALL PIPING GENERALLY LEVEL, FREE OF TRAPS AND UNNECESSARY BENDS, TO CONFORM WITH BUILDING REQUIREMENTS. PIPE TO BE FREE OF DEFECTS, AND INSTALLED TO AVOID ANY POSSIBLE GALVANIC ACTION BY ISOLATING DISSIMILAR METALS.

B. TEST AND RECORD AVAILABLE DOMESTIC WATER PRESSURE IN STATIC AND DYNAMIC CONDITIONS FOR DYNAMIC TESTING RECORD PRESSURE AND FLOW RATE IN GALLONS PER MINUTE. TRANSMIT THIS INFORMATION TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

C. PROVIDE ALL TESTS SPECIFIED HEREINAFTER AND AS OTHERWISE REQUIRED. PROVIDE ALL TEST EQUIPMENT, INCLUDING TEST PUMPS, GAUGES, INSTRUMENTS AND OTHER EQUIPMENT REQUIRED. PRESSURE GAUGES USED SHALL BE GRADUATED IN INCREMENTS NOT GREATER THAN 5 POUNDS PER SQUARE INCH., NO PLUMBING OR DRAINAGE SYSTEM OR PART THEREOF SHALL BE COVERED, CONCEALED, OR PUT INTO USE UNLESS IT HAS BEEN SPECIFIED. CONDUCT ALL TESTS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE, AND OBTAIN THE NECESSARY JURISDICTIONAL AUTHORITY INSPECTIONS.

D. APPLY A WATER TEST TO THE WASTE, AND VENT SYSTEMS WHETHER IN ITS ENTIRETY OR IN SECTIONS; IF APPLIED TO THE ENTIRE SYSTEM, TIGHTLY CLOSE ALL OPENINGS IN THE PIPING EXCEPT THE HIGHEST OPENING, AND FILL THE SYSTEM WITH WATER TO THE POINT OF OVERFLOW. IF THE SYSTEM IS TESTED IN SECTIONS, TIGHTLY PLUG EACH OPENING EXCEPT FOR THE HIGHEST OPENING OF THE SECTION UNDER TEST, AND FILL EACH SECTION WITH WATER, BUT TEST WITH NO LESS THAN A 10' HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, TEST AT LEAST THE UPPER 10' OF THE NEXT PRECEDING SECTION SO THAT NO JOINT OR PIPE IN THE BUILDING (EXCEPT THE UPPERMOST 10' OF THE SYSTEM) SHALL HAVE BEEN SUBMITTED TO A TEST OF LESS THAN A 10' HEAD OF WATER. KEEP WATER IN THE SYSTEM OR IN THE PORTION UNDER TEST FOR AT LEAST 24 HOURS BEFORE INSPECTION STARTS, WITH THE SYSTEM TIGHT AT ALL POINTS.

E. DOMESTIC WATER SYSTEM SHALL BE TESTED AND PROVED TIGHT UNDER A PRESSURE OF NOT LESS THAN 120 PSI. PIPING MUST STAND THE TEST FOR A PERIOD OF 24 HOURS WITHOUT LEAKING.

F. CHLORINATION OF THE DOMESTIC COLD AND HOT WATER PIPING SYSTEMS IN ACCORDANCE WITH STANDARD TESTING PROCEDURES AND LOCAL HEALTH DEPARTMENT REQUIREMENTS. TESTING BY A FIRM SUCH AS BENNET-MARINE OR EQUAL. SUBMIT CERTIFICATE OF SATISFACTORY TEST RESULTS.

G. UPON COMPLETION OF TESTING, CERTIFY TO THE ARCHITECT, IN WRITING THAT THE SPECIFIED TESTS HAVE BEEN PERFORMED AND THAT THE INSTALLATION COMPLIES WITH THE SPECIFIED REQUIREMENTS.

H. GAS PIPING SYSTEM SHALL BE TESTED WITH 10 PSIG AIR FOR EIGHT HOURS.

3.03 PIPING INSTALLATION

A. MAKE CHANGES IN SIZE OF PIPE WITH REDUCING FITTINGS; BUSHINGS WILL NOT BE PERMITTED EXCEPT FOR BELL SHAPED COPPER BUSHINGS.

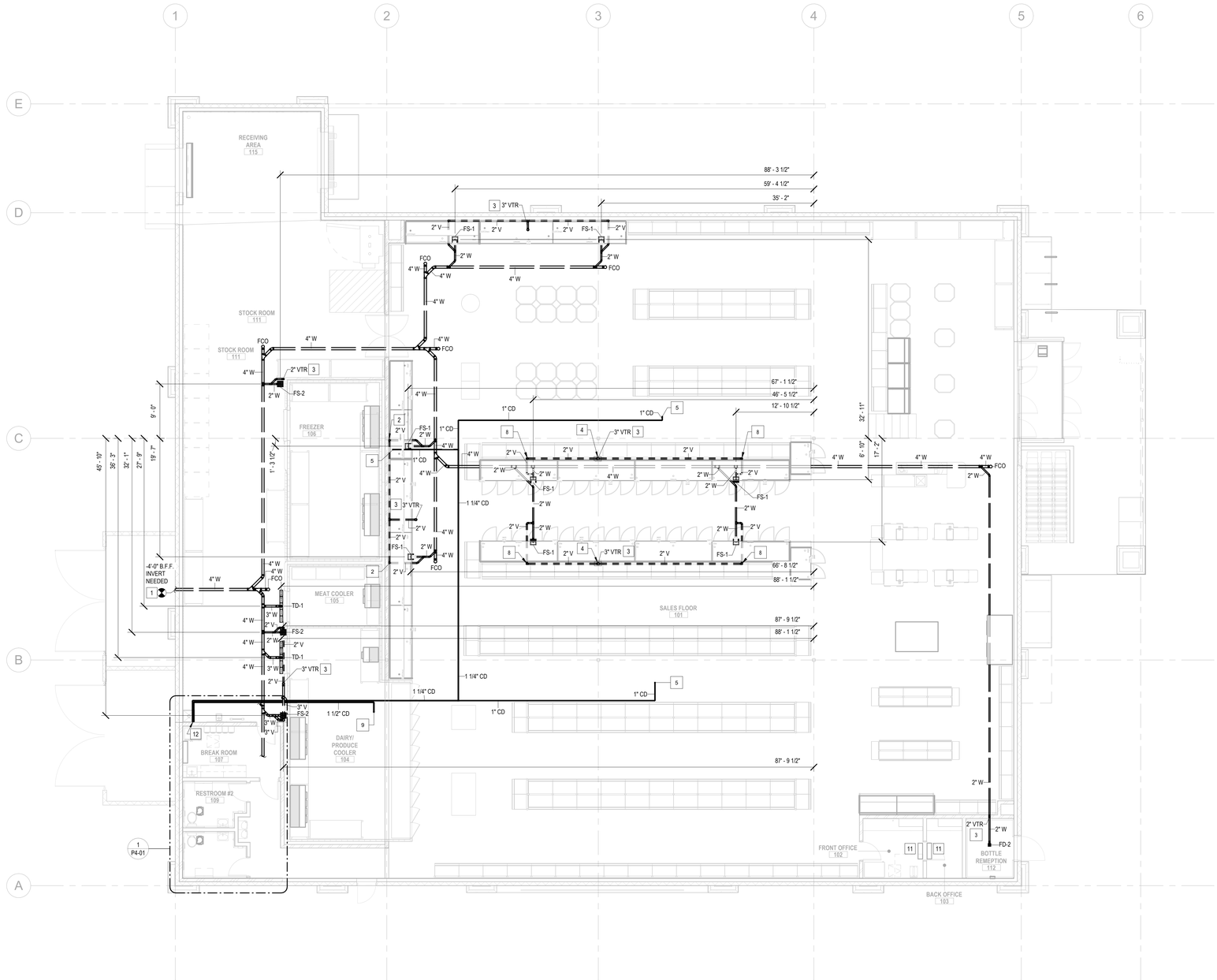
B. INSTALL DIELECTRIC INSULATING UNIONS IN WATER PIPING BETWEEN COPPER PIPING AND FERROUS PIPING OR EQUIPMENT - EPCO, OR EQUAL.

C. INSTALL EXPOSED POLISHED CHROME CONNECTIONS FROM FIXTURES OR EQUIPMENT WITH SPECIAL CARE. SHOW NO TOOL MARKS OR THREADS AT FITTINGS.

D. CAP OPENINGS IN PIPING DURING CONSTRUCTION.

E. PROVIDE 85% RED BRASS PIPE IPS, IN CONNECTION TO FAUCETS, FLUSH VALVES, HOSE BIBBS OR SIMILAR ITEMS REQUIRING RIGID PIPING. EXTEND BRASS PIPE FROM FINAL TEE TO POINT WHERE PIPING CAN BE SECURELY FASTENED TO BUILDING CONSTRUCTION. ALL EXPOSED PIPING AND STOP VALVES IN CONNECTION TO FIXTURES SHALL BE CHROME PLATED BRASS.

F. INSTALL UNIONS ADJACEN



1 P1-01 PLUMBING FLOOR PLAN - WASTE & VENT
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. PLUMBING CONTRACTOR SHALL HYDRO JET AND CLEAN ALL EXISTING SANITARY PIPING THAT IS TO BE REUSED AS PART OF THIS PROJECT. ALL DAMAGED OR IRREPARABLE PORTIONS OF EXISTING TO REMAIN SANITARY PIPING SHALL BE REPLACED WITH NEW PIPING, AS NECESSARY, TO PROVIDE A COMPLETE WORKING SANITARY SYSTEM.
2. REMOVE ALL EXISTING FLOOR DRAINS AND FLOOR SINKS. PROVIDE HARD-CAPS FLUSH TO FINISHED FLOOR.
3. REMOVE ALL DRAINS AND SEWER LINES THAT ARE POTENTIALLY IN CONFLICT WITH NEW SEWER LINES.
4. PLUMBER TO FIELD VERIFY ALL EXISTING SEWER LINES ARE UNUSED PRIOR TO DEMOLITION. AN OPERABLE WASTE LINE SHALL BE MAINTAINED FROM ADJACENT TENANT SPACE WHEN ONE EXISTS.
5. EXISTING GREASE WASTE PIPES SHALL BE ABANDONED. CAP ALL ENDS. FIELD VERIFY CONDITIONS.
6. ROUTE CONDENSATE AS HIGH AS POSSIBLE WITH 1/8" SLOPE. COORDINATE WITH OTHER DISCIPLINES.
7. POC LOCATIONS SHOWN IS AN ASSUMED LOCATION, GC SHALL PROVIDE FINAL VERIFICATION OF POC IN THE FIELD DURING PRE-BID WALK.
8. ALL WASTE PIPING SMALLER THAN 3" IN DIAMETER SHALL BE SLOPED AT MINIMUM 2%.

PLUMBING SHEET NOTES

1. CONNECT NEW W TO EXISTING BUILDING MAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, SIZE AND INVERT ELEVATION OF POC, PRIOR TO CONSTRUCTION. IF THE INVERT OF THE EXISTING SANITARY MAIN IS INADEQUATE TO SLOPE THE PIPE AT 1/8" PER FT, THEN CONTRACTOR IS TO NOTIFY THE EOR OR GROCERY OUTLET REPRESENTATIVE IMMEDIATELY. POC SHOWN IS FOR ILLUSTRATION PURPOSES ONLY AND DOES NOT REPRESENT THE FINAL LOCATION OR CONNECTION POINT. CONTRACTOR SHALL NOTIFY EOR, SHOULD THE ACTUAL LOCATION DIFFER THAN WHAT IS REFLECTED ON THE PLANS. EOR SHALL UPDATE PLANS TO REFLECT ACTUAL LOCATION.
2. 2" VENT UP FROM BELOW THE FINISHED FLOOR BEHIND THE REFRIGERATED CASES.
3. VENT THRU ROOF. EXTEND VENT PIPES 12" ABOVE ROOF AND 10'-0" MINIMUM AWAY FROM ANY FRESH AIR INTAKES. MAINTAIN AT LEAST 24" AWAY FROM THE PARAPET WALLS.
4. VENT UP IN NEAREST FALSE COLUMN. COORDINATE WITH OTHER TRADES.
5. CD DOWN THRU ROOF FROM AC UNIT ABOVE.
6. NEW FAN COIL UNIT WITH CONDENSATE PUMP BY HVAC CONTRACTOR. TERMINATE CONDENSATE INTO HUB DRAIN VIA AIR GAP. PROVIDE WALL ACCESS.
7. PROVIDE SECONDARY DRAIN BOX EQUAL TO OATEY MODA SECONDARY DRAIN KIT. MOUNT THE BOTTOM OF THE BOX AT 12" A.F.F. PROVIDE 1" AIR GAP AND ACCESS PANEL. PAINT PANEL TO MATCH WALL.
8. VENT UP FROM BELOW FINISHED FLOOR BEHIND REFRIGERATED CASES. VENT SHALL RISE ABOVE FLOOR RIM LEVEL MIN AND 24" ABOVE FINISHED FLOOR MAX. PROVIDE ACCESSIBLE CLEANOUT AT BASE OF VENT RISER.
9. PROVIDE CLEANOUT ON DRAIN RISER OF FIXTURE.
10. ASSUMED LOCATION OF EXISTING PIPING. VERIFY EXACT LOCATION, CONDITION, SIZE AND INVERT ELEVATION IN FIELD PRIOR TO CONSTRUCTION.
11. NEW FAN COIL UNIT WITH CONDENSATE PUMP BY HVAC CONTRACTOR. TERMINATE CONDENSATE AT ROOF AS PERMITTED BY AHJ. PROVIDE INSECT SCREEN AT THE END OF THE PIPE.
12. CD PIPE DISCHARGE INDIRECTLY VIA AIR GAP TO MS-1.
13. 2" SANITARY DROP AND 2" VENT RISE.
14. 3" SANITARY DROP AND 2" VENT RISE.
15. 4" SANITARY DROP AND 2" VENT RISE.

DIMENSIONING NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AND IN COORDINATION WITH ALL MANUFACTURER CUT SHEETS AND SUBMITTALS PRIOR TO ROUGH-IN. RFIS SHALL BE ISSUED IF ANY DISCREPANCIES ARE FOUND. IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLAN DIMENSIONS AND THE FIELD CONDITION OR MANUFACTURER DATA THAT ARE NOT RAISED PRIOR TO CONSTRUCTION, CONTRACTOR IS PROCEEDING AT ITS OWN RISK AND SHALL BE RESPONSIBLE FOR THE COST OF ANY CHANGES.

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QUALITY CONTROL CH
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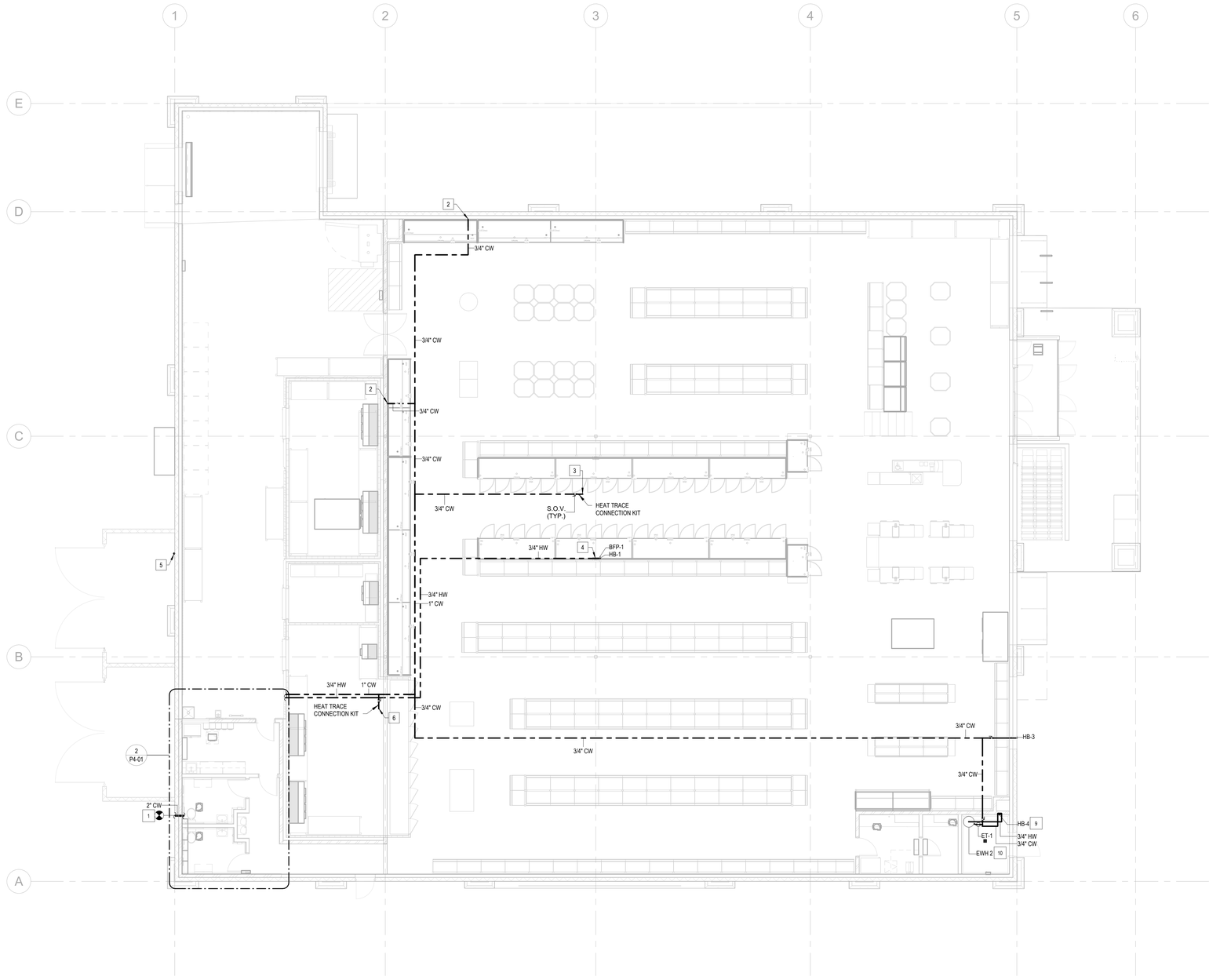
PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER 24-CA140-01

SHEET TITLE
PLUMBING FLOOR PLAN - WASTE & VENT

SHEET NUMBER
P1-01

Last Modified: 2/25/2025 4:53:27 PM Drawing Name: Autodesk Docs://Grocery Outlet - Central Point, OR (0000) Tr/25_Central Point OR_MEP&_R23.rvt



1 P1-02 PLUMBING FLOOR PLAN - DOMESTIC WATER & NATURAL GAS
SCALE: 1/8" = 1'-0"

GAS PIPING PROTECTIVE COATING

ALL METALLIC PIPE EXTERIOR AND FITTINGS SHALL BE COATED WITH A CORROSION-RESISTANT MATERIAL. A RUST PROHIBITIVE PAINT IS AN ACCEPTABLE MEANS. THE PAINT SHALL BE YELLOW IN COLOR.

GAS PIPING NOTES

GENERAL REQUIREMENTS FOR PIPE STANDS:

- SHOP- OR FIELD-FABRICATED ASSEMBLIES MADE OF MANUFACTURED CORROSION-RESISTANT COMPONENTS TO SUPPORT ROOF-MOUNTED PIPING.
- GAS PIPING INSTALLED ON ROOF SHALL BE ELEVATED ABOVE THE ROOF SURFACE.
- GAS PIPING ROOF SUPPORTS SHALL BE SPACED AS SPECIFIED PER SECTION 1210.2.4 OF THE UPC.

BLACK STEEL GAS PIPE SUPPORT INTERVALS

PIPE SIZE -	MAX. SPAN (FEET) -
1/2"	6'
3/4" -1"	8'
1 1/4" OR LARGER	10'

PROVIDE PIPE SUPPORT AT EACH SIDE OF 90 DEGREE TURN AND AT EACH ROOF TOP UNIT.

THE PLUMBING CONTRACTOR SHALL COORDINATE THE EXACT GAS PRESSURE WITH THE LOCAL GAS COMPANY PRIOR TO INSTALLING ANY PIPING. FAILURE TO DO SO SHALL BE AT THE SOLE RISK AND EXPENSE OF THE PLUMBING CONTRACTOR.

GENERAL NOTES

1. POC LOCATION SHOWN IS AN ASSUMED LOCATION. GC SHALL PROVIDE FINAL VERIFICATION OF POC IN THE FIELD DURING PRE-BID WALK.

PLUMBING SHEET NOTES

1. 2" CW CONNECT TO 2" COLD WATER MAIN. VERIFY IN FIELD EXACT LOCATION AND SIZE OF CONNECTING PIPING. POC SHOWN IS FOR ILLUSTRATION PURPOSES ONLY AND DOES NOT REPRESENT THE FINAL LOCATION OR CONNECTION POINT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO BID AND NOTIFY EOR, SHOULD THE ACTUAL LOCATION DIFFER THAN WHAT IS REFLECTED ON THE PLANS. EOR SHALL UPDATE PLANS TO REFLECT ACTUAL LOCATION.
2. 3/4" COLD WATER DROP IN WALL BEHIND CASES LINEUP. PROVIDE SHUT-OFF VALVE, BFP-1 AND ACCESSIBLE WHA. COORDINATE DROP WITH REFRIGERATION PLANS.
3. 3/4" UP THRU ROOF TO HB-2 WITH BUILT IN VACUUM BREAKER. MOUNT HEAT TRACE WIRE CONNECTION KIT TO CW SUPPLY PIPE BELOW ROOF, CONNECT HEAT TRACE WIRE FROM ABOVE ROOF TO KIT. REFER TO HEAT TRACE WIRE SCHEDULE FOR CONNECTION KIT MAKE & MODEL. E.C. TO PROVIDE POWER SUPPLY.
4. HOT WATER ACCESS. PROVIDE SHUT OFF VALVE ON DROP. ROUTE HW DOWN IN NEAREST FALSE COLUMN.
5. CONNECT TO EXISTING GAS SYSTEM. FIELD VERIFY EXACT LOCATION AND SIZE OF CONNECTING PIPING PRIOR TO CONSTRUCTION. POC SHOWN IS FOR ILLUSTRATION PURPOSES ONLY AND DOES NOT REPRESENT THE FINAL LOCATION OR CONNECTION POINT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO BID AND NOTIFY EOR, SHOULD THE ACTUAL LOCATION DIFFER THAN WHAT IS REFLECTED ON THE PLANS. EOR SHALL UPDATE PLANS TO REFLECT ACTUAL LOCATION.
6. 3/4" COLD WATER PIPE UP TO GAS COOLER ON THE ROOF. MOUNT HEAT TRACE WIRE CONNECTION KIT TO CW SUPPLY PIPE BELOW ROOF, CONNECT HEAT TRACE WIRE FROM ABOVE ROOF TO CONNECTION KIT. REFER TO HEAT TRACE WIRE SCHEDULE FOR CONNECTION KIT MAKE & MODEL. E.C. TO PROVIDE POWER SUPPLY.
7. HEAT TRACE ECTS CONTROLLER LOCATION, FOR REFERENCE. PROVIDED BY P.C., INSTALLED BY E.C.
8. INSTALL WATER HEATER PER SCHEDULE, EXPANSION TANK (ET-1), AND RECIRCULATING PUMP (RCP-1) ON PLATFORM ABOVE MOP SINK. RUN FULL LINE SIZE T&P RELIEF DRAIN TO MS-1, TERMINATE VIA AIR GAP.
9. 3/4" CW & 3/4" HW TO HB-4. COORDINATE LOCATION WITH GENERAL CONTRACTOR AND OWNER.
10. INSTALL WATER HEATER PER SHCEDULE AND EXPANSION TANK ON PLATFORM 6.5' A.F.F. RUN FULL SIZE T&P RELIEF DRAIN AND DRAIN PAN DRAIN TO OUTSIDE.

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DEC 31, 2026
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PROJECT MANAGER GH
QUALITY CONTROL GH
DRAWN BY LY

PROJECT NAME

CENTRAL POINT, OR

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER 24-CA140-01

SHEET TITLE

PLUMBING FLOOR PLAN - DOMESTIC WATER & NATURAL GAS

SHEET NUMBER

P1-02

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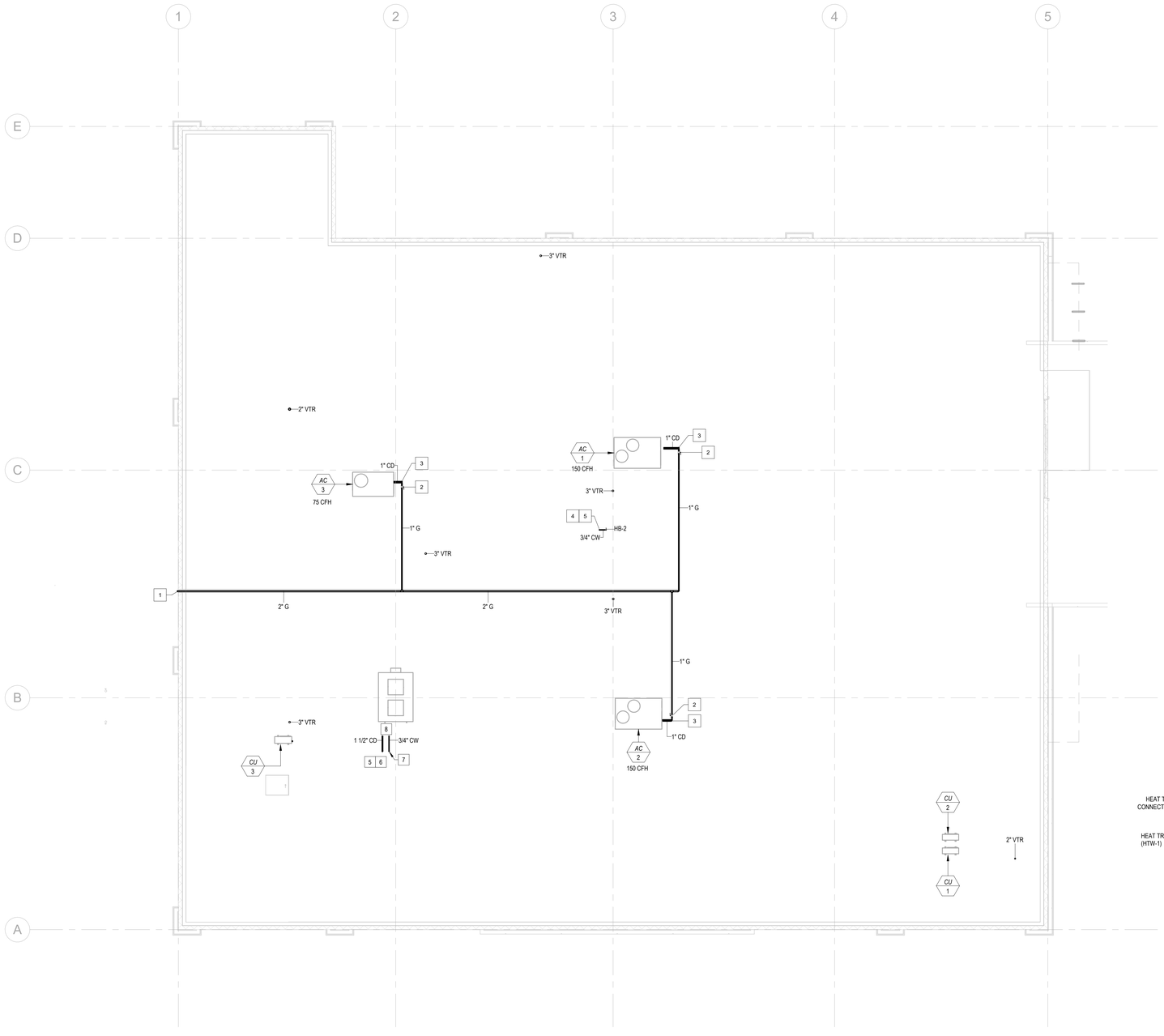
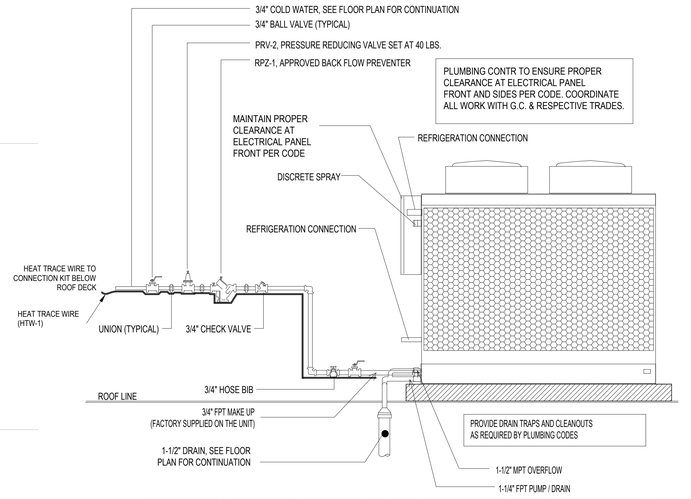


1 P1-03 PLUMBING ROOF PLAN
SCALE: 1/8" = 1'-0"



1. ALL WORK SHOWN IS TO BE BY PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE, AND SHALL COMPLY WITH STATE & LOCAL PLUMBING CODES.
2. THE CITY WATER IS CONNECTED TO MAKE UP WATER
3. PIPING, VALVES, & ALL PLUMBING APPURTENANCES EXPOSED TO EXTERIOR SHALL BE WRAPPED IN MIN. 1" THICK INSULATION.

2 P1-03 CONDENSER PIPING DETAIL
SCALE: 3" = 1'-0"

NOTE: EQUIPMENT ON ROOF SHOWN FOR REFERENCE ONLY. REFER TO APPROVED MECHANICAL/REFRIGERATION PLANS FOR EXACT LOCATIONS OF EQUIPMENT ON ROOF.

GAS PIPING PROTECTIVE COATING

ALL METALLIC PIPE EXTERIOR AND FITTINGS SHALL BE COATED WITH A CORROSION-RESISTANT MATERIAL. A RUST PROHIBITIVE PAINT IS AN ACCEPTABLE MEANS. THE PAINT SHALL BE YELLOW IN COLOR.

GAS PIPING NOTES

GENERAL REQUIREMENTS FOR PIPE STANDS:

- SHOP- OR FIELD-FABRICATED ASSEMBLIES MADE OF MANUFACTURED CORROSION-RESISTANT COMPONENTS TO SUPPORT ROOF-MOUNTED PIPING.
- GAS PIPING INSTALLED ON ROOF SHALL BE ELEVATED ABOVE THE ROOF SURFACE.
- GAS PIPING ROOF SUPPORTS SHALL BE SPACED AS SPECIFIED PER SECTION 1210.2.4 OF THE UPC.

BLACK STEEL GAS PIPE SUPPORT INTERVALS

PIPE SIZE -	MAX. SPAN (FEET) -
1/2"	6'
3/4" -1"	8'
1 1/4" OR LARGER	10'

PROVIDE PIPE SUPPORT AT EACH SIDE OF 90 DEGREE TURN AND AT EACH ROOF TOP UNIT.

THE PLUMBING CONTRACTOR SHALL COORDINATE THE EXACT GAS PRESSURE WITH THE LOCAL GAS COMPANY PRIOR TO INSTALLING ANY PIPING. FAILURE TO DO SO SHALL BE AT THE SOLE RISK AND EXPENSE OF THE PLUMBING CONTRACTOR.

GENERAL NOTES

1. POC LOCATION SHOWN IS AN ASSUMED LOCATION. GC SHALL PROVIDE FINAL VERIFICATION OF POC IN THE FIELD DURING PRE-BID WALK.

PLUMBING SHEET NOTES

1. GAS PIPE UP ALONG EXTERIOR WALL FROM GAS METER BELOW.
2. PROVIDE FLEXIBLE CONNECTOR, SHUT-OFF VALVE AND DIRT LEG TO GAS FIRED EQUIPMENT. COORDINATE UNIT CONNECTION WITH MECHANICAL CONTRACTOR.
3. CD PIPE DOWN THRU ROOF.
4. 3/4" CW FROM BELOW TO HB-2 WITH BUILT IN VACUUM BREAKER. PROVIDE 1/4" DRAIN LINE, ROUTE TO NEAREST FLOOR SINK BELOW, DRAIN VIA AIR GAP.
5. LINE EXTERIOR EXPOSED PIPING AND ROOF HYDRANT SUPPORT WITH HEAT TRACE WIRE (HTW-1), PER SCHEDULE. WRAP PIPING AND SUPPORT WITH MIN. 1" THICK INSULATION.
6. 3/4" COLD WATER LINE FROM BELOW TO GAS COOLER. COORDINATE CONNECTION TO EQUIPMENT WITH REFRIGERATION PLAN.
7. ROUTE DRAIN PIPE DOWN TO BELOW AND TERMINATE 1" ABOVE MOP SINK.
8. WATER AND DRAIN CONNECTION TO GAS COOLER. REFER TO DETAIL 2/P1-03.

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PROJECT NAME

CENTRAL POINT, OR

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER 24-CA140-01

SHEET TITLE

PLUMBING ROOF PLAN

SHEET NUMBER

P1-03

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GENERAL NOTES

1. SERVICE HOT WATER SYSTEM WITH CIRCULATING PUMP SHALL BE CAPABLE OF AUTOMATICALLY TURNING OFF THE SYSTEM.

PLUMBING SHEET NOTES

1 SEE SHEET P1-01 & P1-02 FOR DOMESTIC WATER & WASTE AND VENT CONTINUATION.

2 3/4" CW TO WATER CLOSET.

3 1/2"CW TO DRINKING FOUNTAIN.

4 1/2"CW AND 1/2"HW DOWN TO LAVATORY/SINK. INSTALL THERMOSTATIC MIXING VALVE (MV-1) IN ACCESSIBLE LOCATION BELOW LAVATORY/SINK.

5 3/4"CW AND 3/4"HW DOWN TO HANDSINK/EYE WASH STATION. PROVIDE WITH THERMOSTATIC MIXING VALVE (MV-2). INSTALL PER MANUFACTURER'S SPECIFICATIONS.

6 3/4"CW AND 3/4"HW DOWN IN WALL TO MOP SINK. INSTALL SHUT-OFF VALVES ON DROPS.

7 INSTALL WATER HEATER PER SCHEDULE, EXPANSION TANK (ET-1), AND RECIRCULATING PUMP (RCP-1) ON PLATFORM ABOVE MOP SINK. RUN FULL LINE SIZE T&P RELIEF DRAIN TO MS-1, TERMINATE VIA AIR GAP.

8 2" SANITARY DROP AND 2" VENT RISE.

9 3" SANITARY DROP AND 2" VENT RISE.

10 4" SANITARY DROP AND 2" VENT RISE.

11 VENT THRU ROOF. EXTEND VENT PIPES 12" ABOVE ROOF AND 10'-0" MINIMUM AWAY FROM ANY FRESH AIR INTAKES. MAINTAIN AT LEAST 24" AWAY FROM THE PARAPET WALLS.

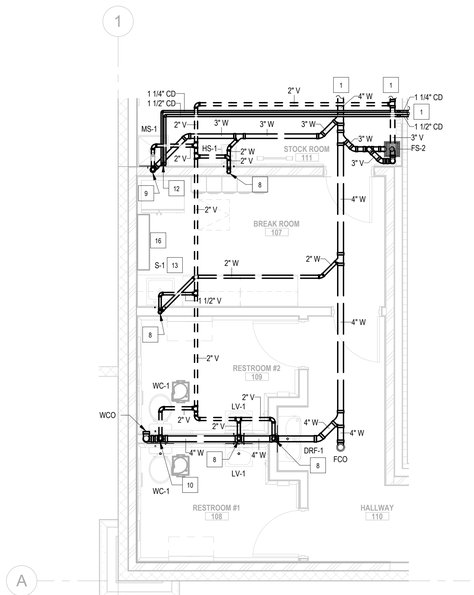
12 CD PIPE DISCHARGE INDIRECTLY VIA AIR GAP TO MS-1.

13 PROVIDE CLEANOUT ON DRAIN RISER OF FIXTURE.

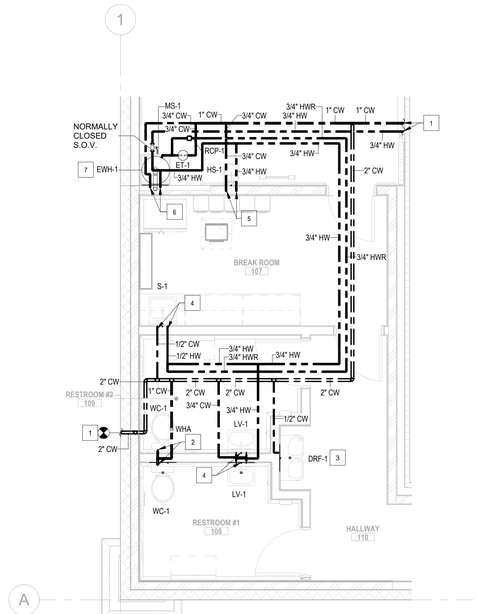
14 NEW FAN COIL UNIT WITH CONDENSATE PUMP BY HVAC CONTRACTOR. TERMINATE CONDENSATE INTO HUB DRAIN VIA AIR GAP. PROVIDE WALL ACCESS.

15 PROVIDE SECONDARY DRAIN BOX EQUAL TO OATEY MODA SECONDARY DRAIN KIT. MOUNT THE BOTTOM OF THE BOX AT 12" A.F.F. PROVIDE 1" AIR GAP AND ACCESS PANEL. PAINT PANEL TO MATCH WALL.

16 NEW FAN COIL UNIT WITH CONDENSTAE PUMP BY HVAC CONTRACTOR. ROUTE CONDENSATE TO TAILPIECE OF SINK.



1 P4-01 ENLARGED PLUMBING FLOOR PLAN - WASTE & VENT
SCALE: 1/4" = 1'-0"



2 P4-01 ENLARGED PLUMBING FLOOR PLAN - DOMESTIC WATER & NATURAL GAS
SCALE: 1/4" = 1'-0"

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PROJECT NAME

CENTRAL POINT, OR

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CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA145-01

SHEET TITLE
PLUMBING ENLARGED PLANS

SHEET NUMBER
P4-01

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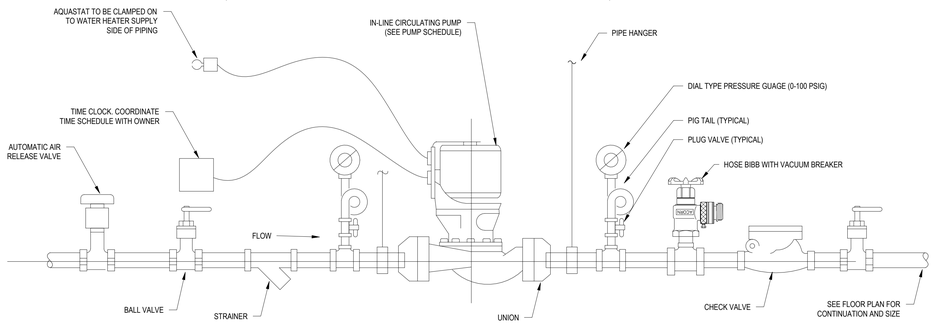

11 P5-01 HOT WATER RECIRCULATING PUMP DETAIL
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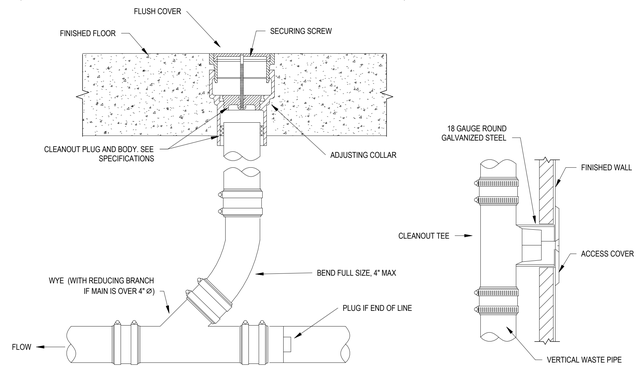
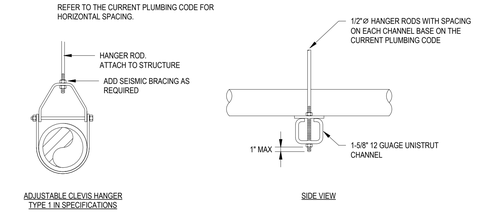


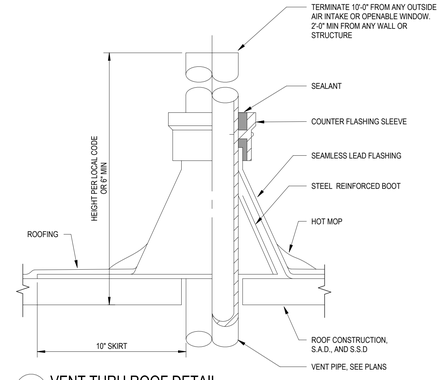
FLOOR CLEANOUT WALL CLEANOUT

5 P5-01 CLEANOUT DETAILS
NOT TO SCALE



ADJUSTABLE CLEVIS HANGER TYPE 1 IN SPECIFICATIONS SIDE VIEW

1 P5-01 PIPE HANGER DETAIL
NOT TO SCALE



12 P5-01 VENT THRU ROOF DETAIL
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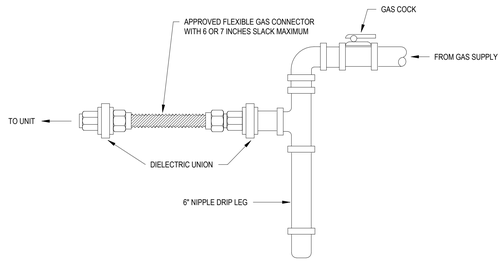

9 P5-01 GAS PIPING CONNECTION DETAIL
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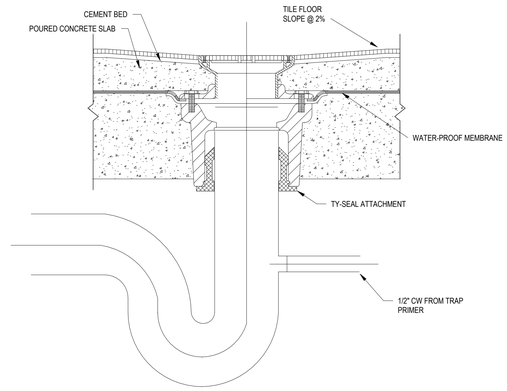
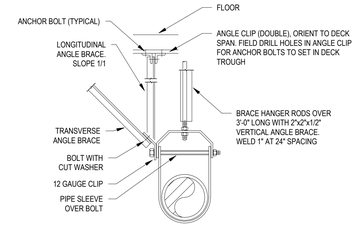


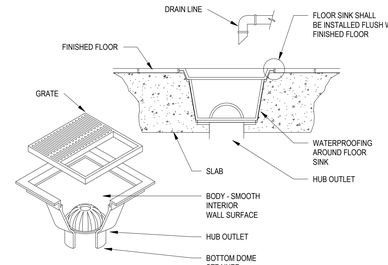
6 P5-01 FLOOR DRAIN DETAIL
NOT TO SCALE



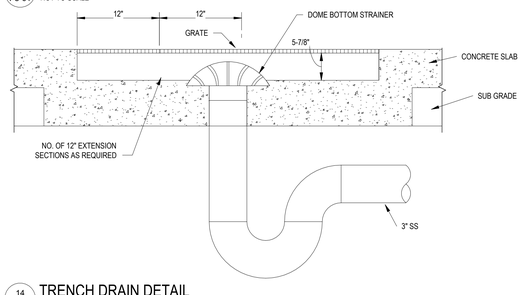
PIPE SIZE	ANGLE BRACE[1]	BOLT TO ANGLE	ANGLE CLIP[2]	ANGLE BOLTS OR INSERTS[3]
2"	2"x2" 16 GA.	1/2"	3"x3"x1/2"x1'-1/4"	1/2
3, 4	2"x2" 16 GA.	1/2"	3"x3"x1/2"x1'-1/4"	1/2
5, 6	2-1/2"x2-1/2" 16 GA.	1/2"	5"x3"x1/2"x1'-1/4"	1/2
8	3"x3" 12 GA.	1/2"	(2)5"x3"x1/2x1'-4"	2
10	3"x3" 12 GA.	1"	(2)5"x3"x1/2x1'-4"	2

1. 2"x2" 12 GA. CHANNEL MAY BE USED.
2. BENT PLATE OF EQUAL THICKNESS MAY BE SUBSTITUTED FOR LONGITUDINAL ANGLE CLIP TO FACILITATE ANCHORAGE TO SLAB TROUGHS/ PROVIDE EQUAL NUMBER OF ANCHOR BOLTS TO THAT SHOWN.
3. PROVIDE MINIMUM EMBEDMENT OF 1-1/2" ABOVE TOP OF METAL DECK FOR ALL ANCHOR BOLTS.

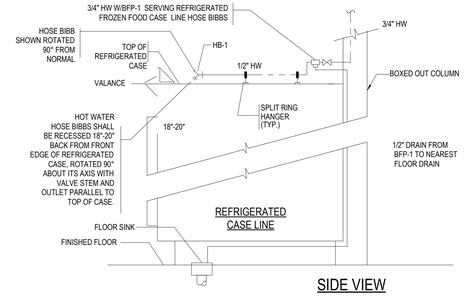
2 P5-01 PIPE SUPPORT DETAIL
NOT TO SCALE



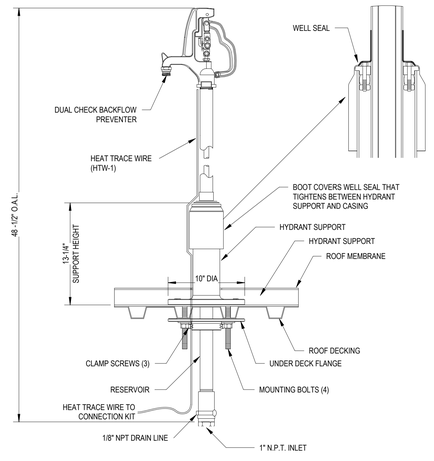
13 P5-01 FLOOR SINK DETAIL
NOT TO SCALE

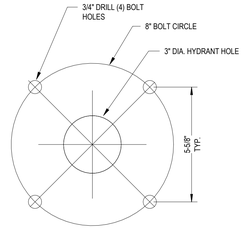


14 P5-01 TRENCH DRAIN DETAIL
NOT TO SCALE



15 P5-01 HOT WATER HOSE BIBB DETAIL
SCALE: 1/8" = 1'-0"

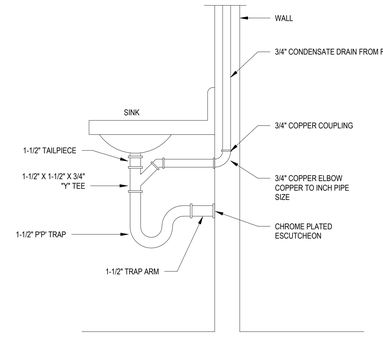




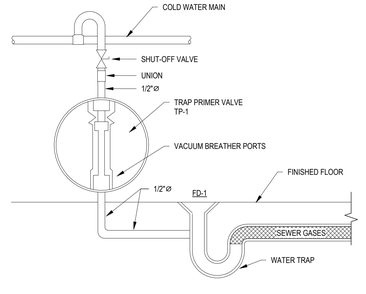
RHY2-MS SANITARY ROOF HYDRANT ROUGH-INS

NOTES:
1. PIPING AND ROOF HYDRANT EXPOSED TO EXTERIOR SHALL BE WRAPPED IN MIN. 1" THICK INSULATION.

10 P5-01 HOSE BIBB ON ROOF DETAIL
NOT TO SCALE



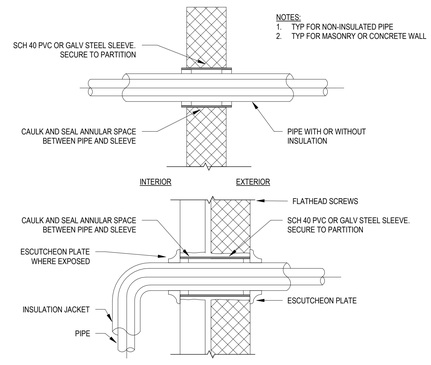
7 P5-01 CONDENSATE DRAIN CONNECTION TO SINK TAILPIECE DETAIL
NOT TO SCALE



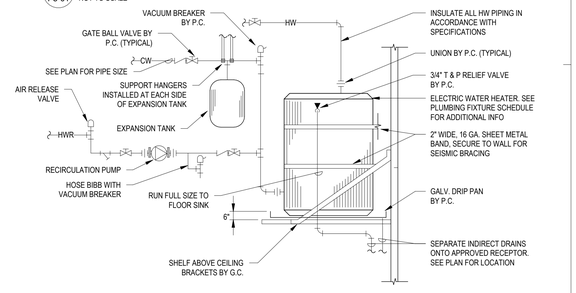
8 P5-01 TRAP PRIMER DETAIL
NOT TO SCALE

NOTE: WHERE PIPING IS EXPOSED AT FINISHED WALLS, FLUSH MOUNT SLEEVE AND PROVIDE ESCUTCHEON PLATE

NOTES:
1. TYP FOR NON-INSULATED PIPE
2. TYP FOR MASONRY OR CONCRETE WALL



3 P5-01 PIPE PENETRATION THRU WALL DETAIL
NOT TO SCALE



NOTES
1. DRAIN PAN: MIN 1-1.2" DEEP, MIN THICKNESS 24 GAUGE AND SUFFICIENT SIZE AND SHAPE TO RECEIVE ALL DRIPPING WATER.

4 P5-01 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE

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DATE	DESCRIPTION
02/24/2025	PERMIT SET

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REGISTERED PROFESSIONAL ENGINEER 97558PE OREGON DEC 31, 2026 REZA NOROUZI

PROFESSIONAL IN CHARGE
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QUALITY CONTROL
SW
DRAWN BY
LY

PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE
PLUMBING DETAILS

SHEET NUMBER
P5-01

Last Modified: 2/20/2025 4:53:39 PM Drawing Name: Autodesk Docs://Grocery Outlet - Central Point, OR (0000) TI/05_Central Point OR_ARPR_R23.rvt

PLUMBING FIXTURE LOAD CALCULATIONS

FIXTURE I.D.	QTY	DRAINAGE FIXTURE UNITS		WATER SUPPLY FIXTURE UNITS					
		DFU	TOTAL	FIXTURE DEMAND TOT...	COLD	HOT	TOTAL DEMAND	TOTAL COLD WATER...	TOTAL HOT WATER...
DRF-1	1	1	1	0.5	0.5	-	0.5	0.5	-
FS-1,2	12	2	24	-	-	-	-	-	-
HB-1	1	-	-	2	2	-	2	2	-
HB-2,3	2	-	-	2	-	2	4	-	4
HS-1	1	2	2	1	0.8	0.8	1	0.8	0.8
LV-1	2	1	2	2	1.5	1.5	4	3	3
MS-1	1	3	3	3	2.25	2.25	3	2.25	2.25
S-1	1	2	2	1.4	1	1	1.4	1	1
WC-1	2	4	8	5	5	-	10	10	-
TD-1	2	3	6	-	-	-	-	-	-
TOTAL FIXTURE UNITS		48					25.9	19.55	11.05

NOTES:
1) DISTANCE FROM THE MOST REMOTE OUTLET TO WATER METER: 300...
2) WATER PIPING SIZES ARE DETERMINED PER TABLE 610.4 OF THE 202...
3) WASTE PIPING SIZES ARE DETERMINED PER FIGURE 703.2 OF THE 20...
4) PLUMBING FIXTURE UNIT VALUES ARE BASED ON TABLES 610.3 AND...

UTILITY LOAD		
SANITARY SEWER	(E) 4"	48 D.F.U.
DOMESTIC WATER	(E) 2"	25.9 W.S.F.U

WATER HEATER SIZING

FIXTURE I.D.	DESCRIPTION	QTY	GPH DEMAND PER FIXTURE	TOTAL GPH DEMAND
HS-1	HAND SINK / EYE...	1	5	5
LV-1	LAVATORY	2	5	10
S-1	SINK	1	10	10
MS-1	MOP SINK	1	15	15
			TOTAL HOT WATER DEMAND (GPH) =	40
			USAGE FACTOR =	60%
			TOTAL HOT WATER DEMAND	24
			TEMPERATURE RISE (°F)	80
			WATER HEATER EFFICIENCY	98%

KW INPUT = (.24 X 8.34 LB/GAL X 80 °F) / (0.98 X 3414.4)

MINIMUM KW INPUT REQUIRED	4.79 KW
WATER HEATER	PER SCHEDULE
KW INPUT PROVIDED	6.00 KW

NATURAL GAS PIPE SIZING CALCULATION

SIZES DETERMINED PER CPC TABLE:	1215.2(1)
PIPE MATERIAL:	Sch. 40 Metallic Pipe
INLET PRESSURE:	LESS THAN 2 PSI
PRESSURE DROP:	0.5 IN W.C.
DISTANCE FROM MOST REMOTE OUTLET TO GAS METER (FT):	131

TAG	DEMAND PER UNIT (CFH)	QTY	TOTAL DEMAND (CFH)	PIPE SIZE TO UNIT (IN.)
AC-1	150	1	150	1
AC-2	150	1	150	1
AC-3	75	1	75	1
TOTAL LOAD			375	2

PLUMBING FIXTURE SCHEDULE

FIXTURE ID	DESCRIPTION	MANUFACTURER	MODEL	ROUGH-IN WASTE	ROUGH-IN VENT	ROUGH-IN CW	ROUGH-IN HW	REMARKS
BFP-1	BACKFLOW PREVENTER	WATTS	SS007QT	---	---	3/4"	---	STAINLESS STEEL DOUBLE CHECK VALVE ASSEMBLY
DRF-1	HIGH/LOW DRINKING FOUNTAIN ADA COMPLIANT	OASIS	PG8ACSL	2"	2"	1/2"	---	115V/60HZ/4.4 F.L.A., 8 GPH MINIMUM OF 50 DEG F COOLED WATER, FRONT AND SIDE PUSH PADS FOR ACTIVATION, BUILT-IN 100 MICRON STRAINER, REQUIRES ELECTRICAL OUTLET
DRF-1	HIGH/LOW DRINKING FOUNTAIN ADA COMPLIANT	OASIS	PG8ACSL	2"	2"	1/2"	---	115V/60HZ/4.4 F.L.A., 8 GPH MINIMUM OF 50 DEG F COOLED WATER, FRONT AND SIDE PUSH PADS FOR ACTIVATION, BUILT-IN 100 MICRON STRAINER, REQUIRES ELECTRICAL OUTLET
ET-1	EXPANSION TANK	AMTROL	ST-5	---	---	3/4"	---	2.0 GALLON, 8" DIAMETER X 1'-5/8" HIGH, 3/4" NPTM CONNECTION
EWH 2	ELECTRIC WATER HEATER	A.O. SMITH	DEL-30	---	---	3/4"	3/4"	1, 2, 3
FCO	FLOOR CLEANOUT	ZURN	ZN-1400	SAME AS PIPE SIZE	---	---	---	SAME AS PIPE SIZE, BRONZE COVER
FD-2	FLOOR CLEANOUT	ZURN	ZN-550	2"	2"			9" ROUND GRATE. PIPE SIZE AS SHOWN ON PLAN, WITH 1/2" TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	ZURN	FD2375-NH2-H-Y	2"	2"	---	---	CAST IRON BODY FLOOR SINK IN ACCORDANCE WITH ASME A112.6.7 WITH 1/2 GRATE, DOME STRAINER, AND SEDIMENT BUCKET
FS-2	FLOOR SINK	ZURN	FD2375-NH2-F-Y	2"	2"	---	---	CAST IRON BODY FLOOR SINK IN ACCORDANCE WITH ASME A112.6.7 WITH FULL GRATE, ABS DOME STRAINER, AND SEDIMENT BUCKET
HB-1	HOSE BIBB	WOODFORD	24P	---	---	---	3/4"	VACUUM BREAKER FOR ANTI-SIPHON PROTECTION, MOUNT HOSE BIBB 30" ABOVE FINISHED FLOOR
HB-2	ROOF HYDRANT	WOODFORD	RHY2-1-MS	---	---	3/4"	---	FREEZELESS ROOF HYDRANT, WITH BACKFLOW PREVENTER. PROVIDE WITH 1/4" DRAIN LINE. ROUTE TO NEAREST FLOOR SINK, DRAIN VIA AIR GAP.
HB-3	HOSE BIBB	WOODFORD	68P	---	---	3/4"	---	FREEZELESS UNDERCOVER WALL HYDRANT, AUTOMATIC DRAIN WITH BACKFLOW PROTECTION AND INTEGRAL LOCKING HEAD COVER
HB-4	HOSE BIBB	WOODFORD	C22	---	---	3/4"	3/4"	FREEZELESS HOT & COLD WALL FAUCET WITH BACKFLOW PREVENTER
HS-1	HAND SINK / EYE WASH STATION COMBO	KROWNE	HS-35	2"	2"	3/4"	3/4"	9" X 11" SINGLE BOWL, STAINLESS STEEL. EQUIPPED WITH 0.5 GPM FAUCET AND INTEGRAL EYE WASH STATION CONFORMING TO ANSI/ISEA STANDARD Z358.1. INSTALL WITH MV-2.
LV-1	LAVATORY ADA COMPLIANT	AMERICAN STANDARD	LUCERNE 0356.421	2"	2"	1/2"	1/2"	WALL-HUNG, WHITE VITREOUS CHINA, SINGLE CENTER, WITH SELF METERING TOTO TEL105#CP, 0.5 GPM FAUCET. SELF-GENERATION HYDROPOWERED ECOPOWER SYSTEM, MAX 20 SECONDS CONTINUOUS FLOW. INSTALL MV-1
MV-1	MIXING VALVE	ZURN	ZW1070XL	---	---	1/2"	1/2"	SET TEMPERATURE TO 110 DEG F. ASSE LISTED 1070
MV-2	MIXING VALVE	ACORN	ET71-1	---	---	1/2"	1/2"	SET TEMPERATURE TO 95 DEG F. ASSE LISTED 1071. PROVIDE OUTLET TEMPERATURE GAUGE. INSTALL WITH MOUNTING BRACKET PER MANUFACTURER'S INSTALLATION.
PRV-2	PRESSURE REDUCING VALVE	WATTS	LFN55B-M1	---	---	3/4"	---	COORDINATE WITH REFRIGERATION CONTRACTOR FOR EXACT LOCATION, SET MAXIMUM WATER PRESSURE SUPPLY TO 40 PSIG
RPZ-1	REDUCE PRESSURE ZONE ASSEMBLY	WATTS	LF909QT-S	---	---	3/4"	---	BRONZE BODY, AWWA STD C511-92 COMPLIANT, WITH BRONZE STRAINER, WITH 909AG FIXED AIR GAP FITTINGS
S-1	COUNTERTOP SINK ADA COMPLIANT	ELKAY	LUSTERTONE LRAD 2222	2"	2"	1/2"	1/2"	22" X 22" SINGLE BOWL, STAINLESS STEEL, SELF-RIMMING WITH LKS35 STRAINER. PROVIDE WITH KOHLER K-7221B TOUCHLESS PULL-DOWN KITCHEN SINK FAUCET, 1.5 GPM, 120VAC. INSTALL MV-1.
TD-1	TRENCH DRAIN	ZURN	Z664	3"	2"	---	---	72" LONG X 6" WIDE MODULAR HEAVY DUTY TRENCH DRAIN WITH (1) OUTLET SECTION, (5) EXTENSIONS SECTIONS, DOME BOTTOM STRAINER, FLANGED ENDS.
WC-1	WATER CLOSET ADA COMPLIANT	ZURN	Z5561	4"	2"	3/4"	---	FLOOR MOUNTED BOWL, WHITE VITREOUS CHINA, 1.1 GPF, 2 PIECE TOILET, PRESSURE ASSISTED TANK. WITH BEMIS OPEN FRONT WHITE SEAT LESS COVER.
WHA	WATER HAMMER ARRESTOR	MIFAB	MWH-A	---	---	1/2"	---	SEE WATER HAMMER ARRESTOR SCHEDULE

WATER HEATER SCHEDULE

EQUIP. TAG	TYPE	MANUFACTURER	MODEL	STORAGE CAPACITY	SET POINT TEMP.	RECOVERY CAPACITY TEMP. RISE	RECOVERY CAPACITY RATE	CW CONN.	HW CONN.	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL POWER INPUT	REMARKS
EWH-1	ELECTRIC WATER HEATER	A.O. SMITH	DEL-30	30.0 gal	140 °F	80 °F	21 GPH	3/4"	3/4"	208 V	1	6 kW	1, 2, 3
EWH-2	ELECTRIC WATER HEATER	A.O. SMITH	DEL-30	30.0 gal	140 °F	80 °F	21 GPH	3/4"	3/4"	208 V	1	6 kW	1, 2, 3

REMARKS
1. HIGH TEMP CUT-OFF SWITCH.
2. FULL LINE SIZE T&P RELIEF DISCHARGE TO MOP SINK VIA 2" AIR GAP.
3. PROVIDE AND INSTALL VACUUM RELIEF VALVE CONFORMING TO CSA Z21.22 ON COLD WATER INLET SIDE OF WATER HEATER.

RECIRCULATING PUMP SCHEDULE

EQUIP. TAG	MANUFACTURER	MODEL	FLOW RATE	TDH	HWR CONN.	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL FREQUENCY	ELECTRICAL POWER	MOTOR HORSEPOWER	MOTOR RPM	Remarks
RCP-1	GRUNDFOS	UP15 10B5-TLC	2.7 GPM	3.0 ft	3/4"	115 V	1	60 Hz	25 W	1/25 HP	3600	1, 2

REMARKS
1. PROVIDE WITH TIME CLOCK AND AQUASTAT. COORDINATE WITH OWNER FOR TIMER SETTINGS,
2. MOUNT PUMP 5 FT ABOVE FINISHED FLOOR

WATER HAMMER ARRESTOR SCHEDULE

MARK	MANUFACTURER / MODEL #	SIZE TYPE	FIXTURE UNIT CAPACITY	A (LENGTH)	A (DIAMETER)	A M.P.T. CONN.
WHA	MIFAB MWH-A-NPB	A	1-11	6"	6"	1/2"
WHA	MIFAB MWH-B-NPB	B	12-30	7-1/2"	7-1/2"	3/4"
WHA	MIFAB MWH-C-NPB	C	31-60	9"	9"	1"
WHA	MIFAB MWH-D-NPB	D	61-113	10-1/2"	10-1/2"	1-1/4"
WHA	MIFAB MWH-E-NPB	E	114-154	11-1/4"	11-1/4"	1-1/2"
WHA	MIFAB MWH-F-NPB	F	155-330	13"	13"	2"

CERTIFIED TO THE ASSE 1010-1996 AND ANSI A112.26.1M STANDARDS. MOUNT AT ACCESSIBLE LOCATION

MINIMUM CONDENSATE PIPE SIZE

EQUIPMENT CAPACITY (TONS)	CONDENSATE PIPE DIAMETER
UP TO 20	3/4"
21-40	1"
41-90	1-1/4"
91-125	1-1/2"

PIPE INSULATION THICKNESS SCHEDULE

NOMINAL PIPE SIZE	< 1"	1" TO < 1-1/2"	1-1/2" TO < 4"	4" TO < 8"	8" & LARGER
INSULATION THICKNESS	1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"

HEAT TRACE WIRE SCHEDULE

EQUIP. I.D.	MANUFACTURER & MODEL NO.	WATTS/FT	CIRCUIT LENGTH	START-UP TEMP.	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA CB	REMARKS
HTW-1	nVENT RAYCHEM 5XLE1-CR	5	10 FT	40°F	120V	1 PH	15A	1, 2, 3

REMARKS:
1. PROVIDE nVENT RAYCHEM EC-TS, ELECTRONIC THERMOSTAT CONTROLLER WITH 50 FT TEMP. SENSING LEAD. CONTROLLER TO BE INSTALLED BY E.C..
2. PROVIDE AND MOUNT nVENT RAYCHEM RAYCLIC-PC CONNECTION KIT ON DOMESTIC WATER SUPPLY TO ROOF HYDRANT, INSTALL ON INTERIOR SIDE OF ROOF. E.C. TO PROVIDE AND INSTALL POWER SUPPLY.
3. HEAT TRACE WIRE AND CONNECTION KITS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING LEGEND

SYMBOL	ABBREV	DESCRIPTION
	CW	DOMESTIC COLD WATER
	HW	DOMESTIC HOT WATER
	HWR	DOMESTIC HOT WATER RETURN
	SS	SANITARY SEWER
SS	SS	SANITARY SEWER HUNG PIPE
	V	VENT
CWV	CWV	COMBINATION WASTE AND VENT
G	G	NATURAL GAS (LOW PRESSURE)
OFL	OFL	OVERFLOW LEADER
RWL	RWL	RAINWATER LEADER
OD	OD	OVERFLOW DRAIN
SD	SD	STORM DRAIN
CD	CD	CONDENSATE DRAIN
	WHA	WATER HAMMER ARRESTOR
P.O.C.	P.O.C.	POINT OF CONNECTION
		CAPPED
		UNION
UP	UP	PIPE UP
DN	DN	PIPE DOWN
DN	DN	PIPE TEE DOWN
BVL	BVL	BALL VALVE
CV	CV	CHECK VALVE
FCO	FCO	FLOOR CLEANOUT
COTG	COTG	CLEANOUT TO GRADE
HB	HB	HOSE BIBB
WCO	WCO	WALL CLEANOUT
		GAS COCK WITH UNION
PRV	PRV	PRESSURE REDUCING VALVE
T&P	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
BV	BV	BALANCING VALVE
AG	AG	ABOVE GROUND
AFF	AFF	ABOVE FINISHED FLOOR
BG	BG	BELOW GROUND
CFF	CFF	CAP FOR FUTURE
IE	IE	INVERT ELEVATION
(N)	(N)	NEW
N.I.C.	N.I.C.	NOT IN CONTRACT
(E)	(E)	EXISTING
VTR	VTR	VENT THROUGH ROOF
UG	UG	UNDERGROUND

MATERIAL SPECIFICATIONS

SERVICES		CAST IRON NO-HUB*	PVC SCH-40*	GALV. STEEL SCH 40	BLACK STEEL SCH 40	TYPE M COPPER*	TYPE L COPPER	TYPE K COPPER	REMARKS
COLD WATER	ABOVE GROUND					●			
	BELOW GROUND						●		
HOT WATER	ABOVE GROUND					●			
	BELOW GROUND						●		
WASTE	ABOVE GROUND	●	●						
	BELOW GROUND	●	●						
VENT	ABOVE GROUND	●	●						
	BELOW GROUND	●	●						
INDIRECT WASTE	INDOOR					●			
	OUTDOOR					●			
STORM DRAIN	ABOVE GROUND	●	●						
	BELOW GROUND	●	●						
NATURAL GAS	INDOOR				●				
	OUTDOOR			●					PAINTED WITH RUST INHIBITING PAINT

1. ABS DWV IS ACCEPTABLE IF ALLOWED BY THE AUTHORITY HAVING JURISDICTION. CONTRACTOR TO PROVIDE BID ALTERNATE AND APPROVAL LETTER TO OWNER FOR CONSIDERATION.

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DEC 31, 2026
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PROFESSIONAL IN CHARGE
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PROJECT MANAGER
DH
QUALITY CONTROL
SW
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PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE
PLUMBING SCHEDULES AND CALCULATIONS

SHEET NUMBER
P6-01

Last Modified: 2/25/2025 4:53:46 PM Drawing Name: Autodesk Docs://Grocery Outlet - Central Point, OR (0050) 1\00_Central Point, OR_MEPR_R22.rvt

COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	90.1 (2019) Standard
Project Title:	Central Point, OR
Location:	Central Point (Jackson), Oregon
Climate Zone:	4c
Project Type:	Alteration

Construction Site:
3951 Biddle Road
Central Point, Oregon 97502

Owner/Agent:
Grocery Outlet

Designer/Contractor:
Lisa Yoder
CoolSys Energy Design
4275 North Palm Street
Fullerton, California 92835
714-578-2300
lisa.yoder@coolsys.com

Mechanical Systems List

Quantity System Type & Description

2 Water Heater
Electric Storage Water Heater, Capacity: 30 gallons w/ Circulation Pump and Heat Trace Tape Installed
No minimum efficiency requirement applies

SWH COMPLIANCE REQUIREMENT UNKNOWN
Alteration details have not been specified

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Lisa Yoder — Name - Title
Lisa Yoder — Signature
2/20/2025 — Date

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 0.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 7.7.1, 10.4.2 [PR3][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-in Inspection	Complies?	Comments/Assumptions
7.4.4.1 [PL2][3]	Temperature controls installed on service water heating systems (<=120ºF to maximum temperature for intended use).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
7.4.4.2 [PL3][3]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-in Inspection	Complies?	Comments/Assumptions
6.4.3.4.5 [ME39][1]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.3.2.1 [ME40][1]	DX cooling systems >= 75 kBtuh (>= 65 kBtuh effective 1/2016) and chilled-water and evaporative cooling fan motor hp >= ¼ designed to vary supply fan airflow as a function of load and comply with operational requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
6.5.7.2.4 [ME49][1]	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
7.4.2 [ME36][2]	Service water heating equipment meets efficiency requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.9 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.10 [ME73][3]	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-in Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10][2]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
8.4.3 [EL11][2]	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
10.4.1 [EL9][2]	Electric motors meet requirements where applicable.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
7.4.4.3 [FI11][2]	Public lavatory faucet water temperature <=110°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
7.4.4.4 [FI12][2]	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
10.4.3 [FI24][2]	Elevators are designed with the proper lighting, ventilation power, and standby mode.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
7.4.3 [FI46][2]	All heat traced or externally heated piping insulated	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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DATE	DESCRIPTION
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97558PE
OREGON
DEC 31, 2026
REZA NOROUZI

PROFESSIONAL IN CHARGE
SH

PROJECT MANAGER
GH

QUALITY CONTROL
SN

DRAWN BY
CI

PROJECT NAME

CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CAE40-01

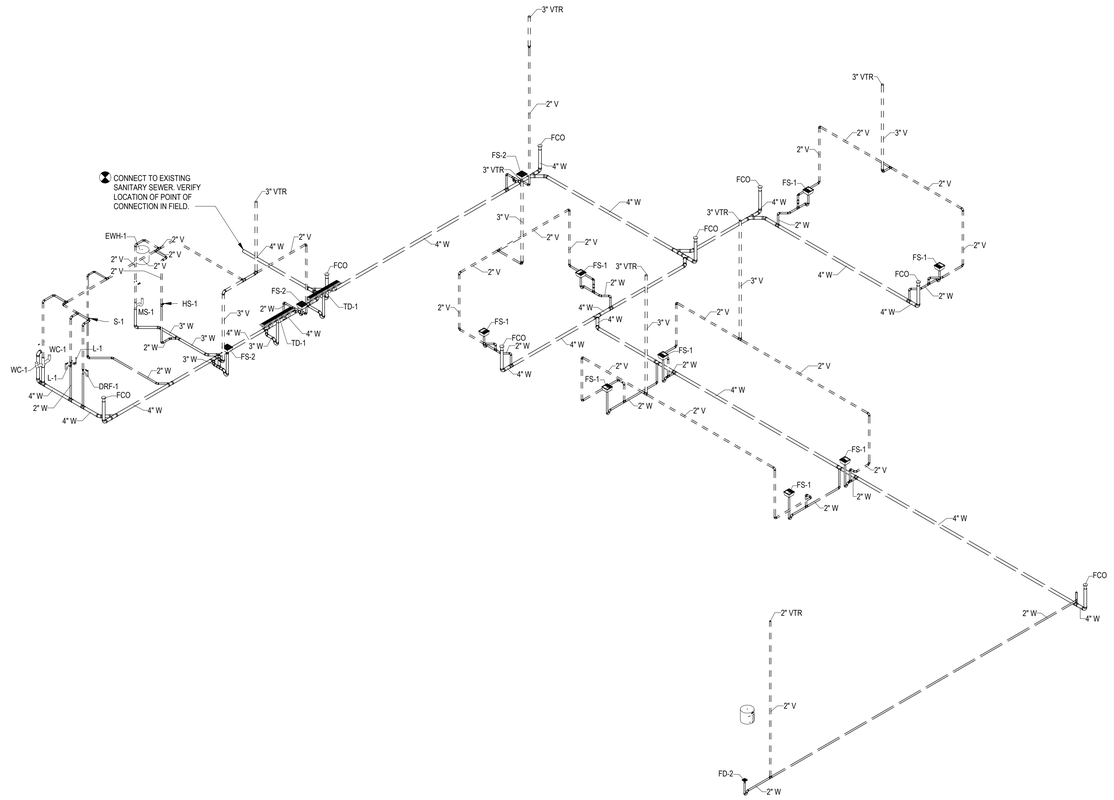
SHEET TITLE

ENERGY COMPLIANCE FORMS

SHEET NUMBER

P7-01

Last Modified: 2/20/2025 4:53:48 PM Drawing Name: Autodesk Docs://Grocery Outlet - Central Point, OR (0000) 1//2D_Central Point CR_MEPR_R22.rvt



1 P9-01 WASTE AND VENT RISER DIAGRAM
SCALE:

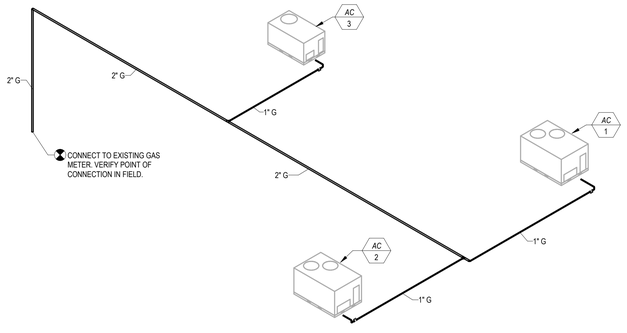
GAS SYSTEM DESIGN CRITERIA

BLACK STEEL GAS PIPING SIZES BASED ON LONGEST LENGTH METHOD PER SECTION 1215.1.1 AND TABLE 1215.2(1) OF THE 2022 CPC.

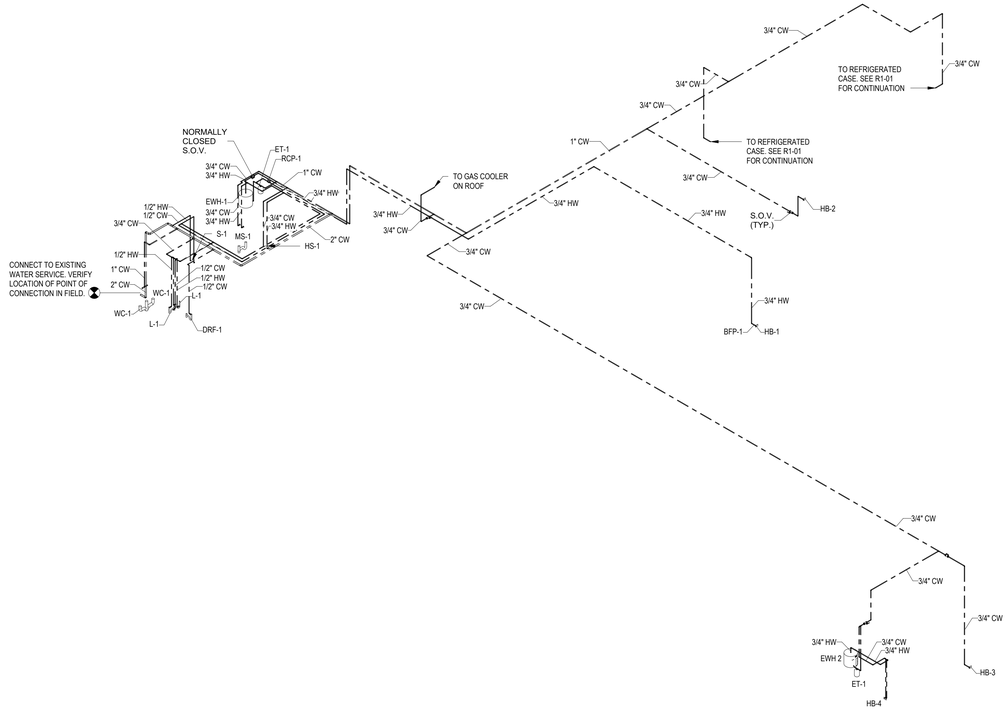
GAS PRESSURE - LESS THAN 2 PSI
PRESSURE DROP - 0.5 IN W.C.
SPECIFIC GRAVITY - 0.60
TOTAL DEVELOPED LENGTH - 173 FT

EQUIPMENT

AC-1	150 MBH
AC-2	150 MBH
AC-3	75 MBH
TOTAL =	375 MBH



3 P9-01 DOMESTIC GAS DIAGRAM
SCALE:



2 P9-01 DOMESTIC WATER RISER DIAGRAM
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PROJECT NAME

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CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA145-01

SHEET TITLE

PLUMBING RISER DIAGRAMS

SHEET NUMBER

P9-01

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ELECTRICAL GENERAL NOTES

1. ALL WIRE TO BE THHN/THWN COPPER, STRANDED EXCEPT WHERE NOTED OTHERWISE.
2. ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL BE OF WEATHERPROOF CONSTRUCTION.
3. ALL DEVICES SHALL BE SPECIFICATION GRADE. ALL SINGLE AND GANGED PLATES SHALL BE THERMOPLASTIC AND SHALL MATCH THE DEVICE IN COLOR. COORDINATE DEVICE COLOR WITH THE ARCHITECT PRIOR TO INSTALLATION. GANG DEVICES AT GROUP LOCATIONS UNDER A SINGLE COVER PLATE.
4. THE ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL OF THE ARCHITECTURAL DETAIL OR SPECIFICS OF ELECTRICAL CONSTRUCTION. TAKE ALL DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS.
5. REFER TO THE LATEST EDITION OF THE CODES MENTIONED ON THE CODES AND REGULATIONS SECTION OF THIS PAGE AND LOCAL ORDINANCES IN EFFECT AT THE TIME OF CONSTRUCTION AS THE CONTROLLING DOCUMENTS.
6. ALL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 24" OF WEATHERPROOF FLEXIBLE CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION TO THE STRUCTURE.
7. COORDINATE ALL MOTOR OVERLOADS AND/OR FUSES FURNISHED BY THIS CONTRACT WITH THE ACTUAL EQUIPMENT INSTALLED. SIZE OVERLOADS BASED ON MOTOR NAMEPLATE FULL LOAD CURRENT AND SERVICE FACTOR. FUSES FOR MOTOR AND TRANSFORMER CIRCUITS SHALL BE DUAL ELEMENT. FUSES FOR OTHER "NON-INRUSH" LOADS SHALL BE FAST ACTING. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK5 OR CLASS L UNLESS OTHERWISE NOTED.
8. GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS AND SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC ARTICLE 250.
9. BONDING OF ALL INTERIOR METAL PIPING SHALL BE IN ACCORDANCE WITH ARTICLE 250-90 AS FOLLOWS:
   A. ALL INTERIOR METAL WATER PIPING SHALL BE BONDED TO ONE OR MORE GROUNDING ELECTRODES USED. THE BONDING JUMPING SHALL BE SIZED IN ACCORDANCE WITH TABLE 250-66.
   B. INTERIOR METAL PIPING THAT MAY BECOME ENERGIZED (i.e. GAS PIPING, ETC.), SHALL BE BONDED TO ONE OR MORE GROUNDING ELECTRODES USED. THE BONDING JUMPER SHALL BE SIZED IN ACCORDANCE WITH TABLE 250-122, USING THE RATING OF THE CIRCUIT THAT MAY ENERGIZE THE PIPING.
10. INSTALL ALL WALL MOUNTED POWER, TELEPHONE AND DATA OUTLETS AT +18" A.F.F. UNLESS OTHERWISE NOTED. INSTALL ALL LIGHTING CONTROL SWITCHES, FIRE ALARM PULLSTATIONS, FIREMANS TELEPHONE JACKS, AND WALL TELEPHONE JACKS AT + 48" AFF, UNLESS OTHERWISE NOTED. ALL HEIGHT MEASUREMENTS SHALL BE TO THE CENTERLINE OF THE DEVICE.
11. CONDUCTOR PENETRATION OF FIRE RATED PORTIONS OF A STRUCTURE SHALL BE EFFECTIVELY SEALED AND SLEEVED WITH STEEL FLEX 3 FEET EACH SIDE OF THE PENETRATION, OR OTHER APPLIED METHODS.
12. INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION.
13. ALL LIGHT SWITCHES NOT WITHIN SIGHT OF LUMINAIRES SHALL BE EQUIPPED WITH A PILOT LIGHT.
14. WIRES FOR MECHANICAL CONTROLS AND FIRE ALARM SHALL BE IN CONDUITS WHERE REQUIRED BY CODES.
15. WIRES SHALL BE IN CONDUITS WHERE THERE IS EXPOSURE TO THE ELEMENTS OR POTENTIAL DAMAGE (FOR EXAMPLE, IN WAREHOUSE UNDER 10'-0").
16. A WORKING SPACE OF NOT LESS THAN 30 INCHES IN WIDTH, 36 INCHES IN DEPTH AND 78 INCHES IN HEIGHT SHALL BE PROVIDED IN FRONT OF ELECTRICAL SERVICE EQUIPMENT. NO STORAGE OF ANY MATERIALS SHALL BE LOCATED WITHIN THE DESIGNATED WORKING SPACE.
17. PROVIDE APPROVED HANDLE TIE FOR ALL MULTIWIRE BRANCH CIRCUITS AS REQUIRED PER NEC ART. 210.4(B).
18. ELECTRICAL CONTRACTOR SHALL FULLY REVIEW REFRIGERATION, MECHANICAL AND PLUMBING TRADE DRAWINGS AND SHALL INCLUDE IN BID ALL WORK THAT IS TO BE COMPLETED BY ELECTRICAL CONTRACTOR, INCLUDING ALL SWITCHES, CONDUITS, BELDEN CABLES, CONTROL WIRES, POWER WIRES ETC, AS CALLED OUT ON ALL TRADE DRAWINGS FOR A COMPLETE AND OPERABLE SYSTEM. NO CHANGE ORDER SHALL BE ALLOWED.
19. COMMISSIONING AND OVERSEEING THE INSTALLATION OF ELECTRICAL SYSTEMS SHALL BE PERFORMED BY OTHERS.
20. NEC 110.2 APPROVAL:ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
21. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNDERGROUND CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, NEC ART. 210.4(B). SEE PANEL SCHEDULES HANDLE-TIE NOTE.
22. THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5%.
23. CONTRACTOR SHALL REVIEW MEP REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT WITH EQUIPMENT MANUFACTURER PRIOR TO BID. CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES BETWEEN MANUFACTURER DATA AND WHAT IS SHOWN ON PLAN PRIOR TO BID. SHOULD OWNER FURNISHED EQUIPMENT DIFFER FROM WHAT IS SHOWN ON PLAN AND CONTRACTOR NOT INFORM ENGINEER PRIOR TO BID, THEN NO CHANGE ORDERS WILL BE ACCEPTED OR APPROVED TO ACCOUNT FOR DIFFERENCES BETWEEN ACTUAL OWNER FURNISHED EQUIPMENT AND WHAT IS SHOWN ON PLAN.
24. NO ELECTRICAL PANEL ARE PERMITTED WITHIN TENANT DEMISING WALLS.
25. EC SHALL GROUP CONDUITS TOGETHER AS MUCH AS POSSIBLE IN LOCATIONS WHERE CONDUITS ARE EXPOSED.

ELECTRICAL ABBREVIATIONS

1PH	SINGLE-PHASE	kV	KILOVOLT
1P	SINGLE POLE	kVA	KILOVOLT AMPERE
3PH	THREE-PHASE	kW	KILOWATT
4W	FOUR-WIRE		
A/E	ARCHITECT/ENGINEER	LED	LIGHT EMITTING DIODE
AC	ALTERNATING CURRENT OR ARMORED CABLE	LF	LINEAR FEET (FOOT)
AF	AMPERE FRAME OR AMP FUSE	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	LTG PNL	LIGHTING PANEL
AFG	ABOVE FINISHED GRADE	LV	LOW VOLTAGE
AHJ	AUTHORITY HAVING JURISDICTION		
AIC	AMPERE INTERRUPTING CAPACITY	MAX	MAXIMUM
ALT	ALTERNATE	MC	METAL-CLAD
AMP	AMPERE	MCA	MINIMUM CIRCUIT AMPACITY
ASC	AMPS SHORT CIRCUIT	MCB	MAIN CIRCUIT BREAKER
AT	AMPERE TRIP	MDP	MAIN DISTRIBUTION PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MECH	MECHANICAL
AUTO	AUTOMATIC	MIN	MINIMUM
		MOCP	MAXIMUM OVERCURRENT PROTECTION
BFF	BELOW FINISH FLOOR	MLO	MAIN LUGS ONLY
BLDG	BUILDING	MTD	MOUNTED
BRKR	BREAKER	MTG	MOUNTING
C	CONDUIT	NA	NOT APPLICABLE
CCTV	CLOSED CIRCUIT TELEVISION	NEC	NATIONAL ELECTRICAL CODE
cd	CANDELA	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CD	CONSTRUCTION DOCUMENTS	NEUT OR N	NEUTRAL
CKT	CIRCUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CLD	CURRENT LIMITING DEVICE	NIC	NOT IN CONTRACT
CLG	CEILING		
COAX	COAX CABLE	OC	ON CENTER
COMM	COMMUNICATION		
CONTR	CONTRACTOR	P	POLE
CL	CASE LIGHTING	PEND	PENDANT
CT	CURRENT TRANSFORMER	PF	POWER FACTOR
CU	COPPER	PH	PHASE
		PNL	PANEL
DC	DIRECT CURRENT	PT	POTENTIAL TRANSFORMER
DISC	DISCONNECT	PVC	POLYVINYL CHLORIDE (PLASTIC)
DS	DISCONNECT SWITCH	PWR	POWER
DWG	DRAWING		
		RC	REFRIGERATION CONTRACTOR
EC	ELECTRICAL CONTRACTOR	RCP	REFLECTED CEILING PLAN
ELEC	ELECTRIC OR ELECTRICAL	REC	RECEPTACLE
ELEV	ELEVATOR	RGS	RIGID GALVANIZED STEEL
EMERG	EMERGENCY	RM	ROOM
EMT	ELECTRICAL METALLIC TUBING	RMS	ROOT MEAN SQUARE
EX OR (E)	EXISTING	REQD	REQUIRED
EWC	ELECTRIC WATER COOLER		
EWH	ELECTRIC WATER HEATER	SD	SMOKE DETECTOR
		SF	SQUARE FOOT (FEET)
FA	FIRE ALARM	SPEC	SPECIFICATION
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SURF	SURFACE
FACP	FIRE ALARM CONTROL PANEL	SW	SWITCH
FLA	FULL LOAD AMPS	SWBD	SWITCHBOARD
FMC	FLEXIBLE METALLIC CONDUIT	SWGR	SWITCHGEAR
FLUOR	FLUORESCENT		
FT	FEET OR FOOT	TC	TIME CLOCK
FU SW	FUSED SWITCH	TEL	TELEPHONE
		TYP	TYPICAL
G OR GND	GROUND		
GEN	GENERATOR	UON	UNLESS OTHERWISE NOTED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
		UC	UNDER COUNTER
HID	HIGH INTENSITY DISCHARGE		
HP	HORSEPOWER	V	VOLT
HT	HEIGHT	VA	VOLT AMPERE
HZ	HERTZ	VFD	VARIABLE FREQUENCY DRIVE
		VOLT	VOLTAGE
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA		
IMC	INTERMEDIATE METAL CONDUIT	W	WATT
IWH	INSTANTANEOUS WATER HEATER	WH	WATER HEATER
		WP	WEATHERPROOF (NEMA 3R WHILE IN
J-BOX	JUNCTION BOX	USE	UNDERGROUND SERVICE ENTRANCE
		XFR	TRANSFER
		XFMR	TRANSFORMER

ABBREVIATIONS LIST SHOWN IS FOR GENERAL REFERENCE ONLY. THE PRESENCE OF AN ABBREVIATION DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO THE DRAWINGS FOR SPECIFIC ABBREVIATIONS USED.

ELECTRICAL SYMBOL LIST

	LIGHTING FIXTURES. REFER TO FIXTURE SCHEDULE ON ELECTRICAL LIGHTING PLAN FOR MORE INFORMATION.		WATERFLOW SWITCH
			TAMPER VALVE SWITCH
	SHADED REGION INDICATES EMERGENCY LIGHTING WITH BATTERY BACKUP	R	DOOR HOLDER
	ILLUMINATED EXIT SIGN - CEILING/WALL (SHADED QUADRANT INDICATES FACE(S). PROVIDE DIRECTIONAL ARROWS WHERE INDICATED.		BELL - 90° AFF UNO
			BUZZER - 90° AFF UNO
	POLE MOUNTED LUMINAIRE	S	SPEAKER - CEILING FLUSH MOUNT
J	WALL MOUNT JUNCTION BOX - 18" AFF UNO OR CABINET MOUNT JUNCTION BOX		MAGNETIC MOTOR STARTER
J	CEILING MOUNT JUNCTION BOX A = VIDEO DISTRIBUTION SYSTEM CRT = NETWORK SYSTEM E = ELECTRONIC POINT OF SALE (EPOS) SYSTEM F = FIRE ALARM SYSTEM P = PAGING SYSTEM S = SECURITY SYSTEM T = LOW VOLTAGE THERMOSTAT - 96" AFF UNO V1 = SINGLE 'F' CONNECTOR VIDEO DIST.COVERPLATE V2 = DUPLEX 'F' CONNECTOR VIDEO DIST. COVERPLATE OS = OCCUPANCY MOTION SENSOR SWITCH H = DOOR HOLDER PS = PHOTO SENSOR FSD = FIRE SMOKE DAMPER		NON-FUSED SAFETY SWITCH (SWITCH FRAME RATING AS INDICATED ON PLAN)
			FUSED SAFETY SWITCH (SWITCH FRAME RATING AS INDICATED ON PLAN), COORDINATE FUSE SIZE WITH MECHANICAL EQUIPMENT SCHEDULES
			COMBINATION STARTER/SAFETY SWITCH
	SIMPLEX CONVENIENCE RECEPTACLE 20A, 125V, HUBBELL #5361.		PUSH BUTTON STATION
		T	LINE VOLTAGE THERMOSTAT - 48" AFF UNO
	DUPLEX CONVENIENCE RECEPTACLE 20A, 125V, HUBBELL #5362-I SHADED. OUTLETS ARE GFI TYPE	DB	DOORBELL CHIME / TRANSFORMER, 96" AFF UNO
C	CONTROLLED RECEPTACLE	RS	R-NET SENSOR, 48" AFF UNO
T T	TWIST LOCK RECEPTACLE, SHADED OUTLETS ARE GFI TYPE	OS	CEILING MOUNTED OCCUPANCY SENSOR
	QUAD RECEPTACLE, SHADED OUTLETS ARE GFI TYPE		LIGHTING DIMMING MODULE
	ISOLATED GROUND QUAD RECEPTACLE, SHADED OUTLETS ARE GFI TYPE ISOLATED GROUND DUPLEX RECEPTACLE, SHADED OUTLETS ARE GFI TYPE ALL ISOLATED GROUND RECEPTACLES ARE TO BE PROVIDED WITH AN INSULATED, ISOLATED GROUND CONDUCTOR FROM RECEPTACLE TO THE ISOLATED GROUND BUS IN THE PANEL.	IPC	PHOTOCELL
		#	KEY NOTE
		XX / #	EQUIPMENT TAG (UPPER CODE - EQUIPMENT ID, LOWER CODE- EQUIPMENT NUMBER)
	SPECIAL PURPOSE RECEPTACLE - VOLTAGE AND AMPS AS REQUIRED BY EQUIPMENT AND INDICATED IN PANEL SCHEDULE. E.C. SHALL MATCH CORD AND PLUG.	PANEL / CKT #	BRANCH CIRCUIT HOME RUN TO PANELBOARD (UPPER CODE - PANEL ID, LOWER NUMERALS IDENTIFY CIRCUIT NUMBERS)
J	OFFICE PLUGSTRIP. MOUNT PLUG STRIP ABOVE OFFICE DESK	P1/3S 2#10 & #10G	DEVICE WITH PANEL/CIRCUIT INDICATOR AND SPECIAL WIRING REQUIREMENTS NOTED
C	CLOCK HANGER RECEPTACLE - 84" AFF UNO	G	EQUIPMENT SPECIAL GROUND
	POWER POLE		GROUND CONNECTION AS NOTED
$	SINGLE-POLE SINGLE-THROW SWITCH - 44" AFF UNO M MOTOR-RATED SWITCH HOA HAND-OFF-AUTO SWITCH SC SPEED CONTROL MSS MOTOR STARTER SWITCH OS OCCUPANCY (MOTION) SENSOR SWITCH D DIMMER SWITCH (WATTAGE AS NOTED.)		LOW VOLTAGE CABLE
$2	TWO-POLE SINGLE-THROW SWITCH - 44" AFF UNO		TRANSFORMER
$3	THREE-WAY SWITCH - 44" AFF UNO	PNL / X	ELECTRICAL PANEL
$4	FOUR-WAY SWITCH - 44" AFF UNO		CIRCUIT BREAKER
$P	SWITCH AND PILOT LIGHT - 44" AFF UNO NOTE: PILOT LIGHT IS ON WHEN SWITCH IS ON		FUSE
$K	KEY-OPERATED SWITCH - 44" AFF UNO	M	UTILITY SERVICE METER & CURRENT TRANSFORMER
$	WALL SWITCH OCCUPANCY SENSOR - 44" AFF UNO	N	NORTH ARROW
	TELEPHONE OUTLET - 18" AFF UNO WITH 3/4" EMPTY CONDUIT TO ABOVE SUSPENDED CEILING OR TO JOIST SPACE IN UNFINISHED SPACES.	K	KIRK KEY INTERLOCK
	TELEPHONE & DATA OUTLET - 18" UNO WITH 3/4" EMPTY CONDUIT TO ABOVE SUSPENDED CEILING OR TO JOIST SPACE IN UNFINISHED SPACES.		
	DATA OUTLET - 18" UNO WITH 3/4" EMPTY CONDUIT TO ABOVE SUSPENDED CEILING OR TO JOIST SPACE IN UNFINISHED SPACES. NOTE: DIMENSIONS ARE TO CENTERLINE OF DEVICE OR BOX UNO.		
	CONTROL PANEL		
	208V PANELBOARD		
	480V PANELBOARD		
T	TRANSFORMER		

SYMBOL LIST SHOWN IS FOR GENERAL REFERENCE ONLY. THE PRESENCE OF A SYMBOL DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO THE DRAWINGS FOR SPECIFIC SYMBOLS USED.

SCOPE OF WORK

THIS PROJECT IS A TAKEOVER OF A VACANT SPACE AND CONVERSION INTO A SUPERMARKET. THERE IS AN EXISTING 1200A, 208V/120V, 3PH, 4W SERVICE AND METER PROVIDED BY LANDLORD AT THE EXTERIOR OF THE BUILDING. A NEW POWERWALL CONSISTING OF 1200A, 208V/120V MDP, BRANCH PANELS AND LIGHTING CONTROL PANEL WILL BE PROVIDED BY CD CONTROLS AND INSTALLED BY E.C. LOCATED AT THE INTERIOR OF THE BUILDING TO SERVE THE SPACE. NEW LIGHTING WILL BE INSTALLED WITH LED TYPE AND NEW MORE EFFICIENT HVAC SYSTEM WILL BE INSTALLED.

CODES AND REGULATIONS

2022 Oregon Structural Specialty Code (OSSC)
2021 Oregon Energy Efficiency Specialty Code (OEESC)
2023 Oregon Electrical Specialty Code (OESC)
2022 Oregon Mechanical Specialty Code (OMSC)
2023 Oregon Plumbing Specialty Code (OPSC)

ALL WORK PERFORMED MUST BE IN COMPLIANCE WITH THE ABOVE CODES AND LOCAL AMENDMENTS

ELECTRICAL SHEET INDEX

Sheet Number	Sheet Name
E0-01	ELECTRICAL OVERVIEW SHEET
E0-02	ELECTRICAL SPECIFICATIONS
E1-01	OVERALL ELECTRICAL SITE PLAN
E1-11	LIGHTING PLAN
E1-12	INTERIOR EMERGENCY LIGHTING PHOTOMETRICS
E1-13	EXTERIOR LIGHTING PHOTOMETRICS
E1-21	POWER PLAN
E1-31	REFRIGERATION POWER PLAN
E1-51	ROOF POWER PLAN
E4-01	ENLARGED ELECTRICAL PLANS
E5-01	ELECTRICAL DETAILS
E5-02	ELECTRICAL DETAILS II
E6-01	ELECTRICAL SINGLE LINE DIAGRAM
E6-02	ELECTRICAL PANEL SCHEDULES
E7-01	ENERGY COMPLIANCE FORMS

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DRAWN BY
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PART 1 - GENERAL

1.01 SCOPE OF WORK
A. FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT AND PROVIDE ALL LABOR, TOOLS, TRANSPORTATION, SUPERINTENDENCE AND SERVICES REQUIRED AND NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN. ALSO INCLUDE ALL OTHER WORK AND MISCELLANEOUS ITEMS, NOT SPECIFICALLY MENTIONED, BUT REASONABLY INFERRED FOR A COMPLETE INSTALLATION INCLUDING ALL ACCESSORIES AND APPURTENANCES REQUIRED FOR TESTING THE SYSTEM. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL SYSTEMS BE COMPLETE, AND READY FOR OPERATION.

1.02 REGULATORY REQUIREMENT
A. CODE COMPLIANCE IS MANDATORY. NOTHING IN THESE DRAWINGS AND SPECIFICATIONS PERMITS WORK NOT CONFORMING TO THESE CODES. WHERE WORK IS SHOWN TO EXCEED MINIMUM CODE REQUIREMENTS, COMPLY WITH DRAWINGS AND SPECIFICATIONS. ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST RULES, CODES AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
1. OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (OSHA).
2. NFPA #70: NATIONAL ELECTRIC CODE (NEC).
3. NFPA #101: LIFE SAFETY CODE.
4. STATE FIRE MARSHAL
5. LOCAL UTILITY COMPANIES
6. LANDLORD REQUIREMENTS

1.03 LICENSE, FEES, AND PERMITS
A. ELECTRICAL CONTRACTOR SHALL PAY FOR ALL LICENSES, PERMITS AND INSPECTION FEES REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND SHALL ARRANGE FOR ALL REQUIRED INSPECTIONS.

1.04 SAFETY AND INDEMNITY
A. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. NO ACT, SERVICE, DRAWING REVIEW OR CONSTRUCTION REVIEW BY THE OWNER, THE ENGINEERS OR THEIR CONSULTANTS, IS INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON, OR NEAR THE CONSTRUCTION SITE.

1.05 DRAWINGS AND SPECIFICATIONS
A. ALL DRAWINGS AND ALL DIVISIONS OF THESE SPECIFICATIONS SHALL BE CONSIDERED AS A WHOLE AND WORK OF THIS DIVISION SHOWN ANYWHERE THEREIN SHALL BE FURNISHED UNDER THIS DIVISION. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT AND WIRING. MOST DIRECT ROUTING OF CONDUITS AND WIRING IS NOT ASSURED. EXACT REQUIREMENTS SHALL BE GOVERNED BY CONDITIONS OF THE JOB. CONSULT ALL OTHER DRAWINGS IN PREPARATION OF THE BID. EXTRA LENGTHS OF WIRING OR ADDITION OF PULL OR JUNCTION BOXES, ETC., NECESSITATE BY SUCH CONDITIONS SHALL BE INCLUDED IN THE BID.

1.06 CONDITIONS AT SITE
A. VISIT SITE OF THE WORK, COMPARE IT WITH THE DRAWINGS AND SPECIFICATIONS AS TO THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED, ASCERTAIN AND CHECK ALL CONDITIONS AND ELEVATIONS AND TAKE ALL MEASUREMENTS WHICH MAY AFFECT THE WORK. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE FOR ANY EXTRA EXPENSE OR CLAIMS DUE TO FAILURE OR NEGLECT UNDER THIS REQUIREMENT TO MAKE SUCH EXAMINATION, INCLUDING EXAMINATION OF RESTRICTED WORKING CONDITIONS OR SUCH OTHER DIFFICULTIES VISUALLY OBSERVED DURING SITE VISIT. CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS WHICH EXIST IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION AS INDICATED ON THE PLANS, SPECIFICATIONS, AND REQUIRED BY THE CODE.

1.07 WORKMANSHIP AND CONTRACTOR'S QUALIFICATIONS
A. ONLY QUALITY WORKMANSHIP WILL BE ACCEPTED. HAPHAZARD OR POOR INSTALLATION WILL BE CAUSE FOR REJECTION OF WORK.

1.08 SUBMITTALS
A. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENGINEER WITH SUBMITTAL PACKAGES FOR REVIEW FOR ALL EQUIPMENT SPECIFIED ON THESE DRAWINGS. CONTRACTOR IS ONLY PERMITTED TO PURCHASE SPECIFIED EQUIPMENT FOLLOWING RECEIPT OF REVIEWED SUBMITTALS IN COMPLIANCE WITH ALL OF ENGINEER'S COMMENTS. IF CONTRACTOR PURCHASES ANY SPECIFIED EQUIPMENT WITHOUT SUBMITTING A SUBMITTAL AND RECEIVING ENGINEER COMMENTS, THEN CONTRACTOR IS TAKING SOLE RESPONSIBILITY FOR THE ACCURACY OF PURCHASED EQUIPMENT AND IS SOLELY RESPONSIBLE FOR REPLACING SAID EQUIPMENT IF IMPROPERLY FURNISHED.
B. SUBMITTALS, UNLESS OTHERWISE NOTED, SHALL BE A SINGLE PACKAGE OF SIX (6) COPIES SUBMITTED TO OWNER FOR REVIEW. WORK SHALL NOT COMMENCE UNLESS SUBMITTALS HAVE BEEN APPROVED.
C. SUBMIT SUBSTITUTED MATERIAL DATA, AND SHOP DRAWINGS, AS NOTED BELOW. FOR REVIEW WITHIN FIFTEEN (15) DAYS AFTER AWARD OF CONTRACT. SUBMITTALS REQUIRED AS FOLLOWS:
1. BASIC ELECTRICAL MATERIALS INCLUDING BUT IS NOT LIMITED TO.
a. WIRING DEVICES - RECEPTACLES, SWITCHES, FACEPLATES
b. WIRES, CONNECTORS, TAPES, SPLICES, TERMINATIONS, AND ACCESSORIES
c. RACEWAYS AND ACCESSORIES
d. DEVICE IDENTIFICATION
2. ELECTRICAL EQUIPMENT
a. POWER DISTRIBUTION EQUIPMENT - PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, DISCONNECT SWITCHES, CIRCUIT BREAKERS, TRANSFORMERS, GENERATORS, INVERTERS, UPS, POWER DISTRIBUTION UNITS, ETC. B.) SERVICE ENTRANCE EQUIPMENT - BUS DUCT, TERMINATION CANS, METERED SWITCHBOARDS, ETC.
3. LIGHTING
a. LIGHT FIXTURES AND SUPPORT DEVICES
b. LAMPS AND BALLASTS - INCLUDE BALLASTS CERTIFICATION. BALLAST SHALL HAVE LOCAL DISCONNECTS.
c. POLES
d. CONTATOLS - OCCUPANCY SENSORS, PHOTOCELL, LIGHTING CONTACTORS, LIGHTING CONTROL PANELS, DIMMERS, ETC.
e. FIXTURE AND ASSEMBLY WATTAGES
f. PROVIDE SUBMITTALS CONFIRMING THAT PRODUCTS SUBMITTED MEET THE REQUIRED MANDATORY MEASURES AS WELL AS MEETS THE MINIMUM STATED ENERGY CONSUMPTIONS SHOWN IN THE LATEST STATE AND LOCAL ENERGY CODES .
D. SUBMIT COMPLETE TEST REPORTS AND ANALYSIS FOR REVIEW WITHIN FIFTEEN (15) DAYS AFTER TESTING.
E. FOR LEED PROJECTS, SUBMIT LEED COMPLIANCE FORMS AT VARIOUS STAGES OF THE PROJECTS, OR AS REQUESTED.
F. SUBMIT ENERGY COMPLIANCE FORMS AT VARIOUS STAGES OF THE PROJECTS, OR AS REQUESTED.
G. SUBMIT VERIFIED PUNCHLIST TWO (2) WEEKS AFTER ISSUANCE DATE. INDICATE PUNCHLIST ITEMS THAT HAVE BEEN COMPLETED BY CONTRACTOR. INCLUDE DATE FOR REPUNCH.

1.09 SUBSTITUTIONS
A. ONE OR MORE MAKES OF MATERIALS OR METHODS MAY HAVE BEEN SPECIFIED TO ESTABLISH THE STANDARD OF QUALITY, WORKMANSHIP, FINISH AND DESIGN REQUIRED. BUT OTHER MATERIALS OF EQUAL OR BETTER QUALITY, WORKMANSHIP, FINISH, DESIGN, AND GUARANTEED PERFORMANCE, MAY BE SUBMITTED FOR REVIEW AND APPROVAL AS SUBSTITUTION. ALL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY ARCHITECT, ENGINEER, AND OWNER.
B. SUBSTITUTIONALL BE REQUESTED IN A WRITTEN FORM AND SHALL BE ACCOMPANIED WITH A SIGNED STATEMENT THAT PROPOSED SUBSTITUTION IS EQUAL, OR BETTER THAN SPECIFIED. ADDITIONAL DOCUMENTATION TO SUBSTANTIATED PROPOSED SUBSTITUTION MAY BE REQUIRED BY OWNER, ARCHITECT, AND ENGINEER. CONTRACTOR SHALL SUBMIT AS DIRECTED.
C. CONTRACTOR SHALL ACCOMPANY REQUEST FOR SUBSTITUTION LETTER WITH A COMPLETED CSI SUBSTITUTION FORM INCLUDE THE COMPARISON FOR FOLLOWING:
1. ELECTRICAL RATING
2. FINISHES
3. SPARE PARTS
4. PERFORMANCE DATA
5. COSTS AND SCHEDULE
D. A WRITTEN SIGNED STATEMENT FROM THE GENERAL CONTRACTOR SHALL ACCOMPANY SUBSTITUTION REQUEST FORM ASSURING THAT:
1. HE HAS VERIFIED DIMENSIONS WITH PROJECT CONDITIONS AND HAS COORDINATED WITH OTHER TRADES. SUBSTITUTION DOES NOT AFFECT DIMENSIONS SHOWN ON DRAWINGS.
2. HE SHALL PAY AND BURDEN THE COSTS FOR CHANGES TO THE PROJECT INCLUDING RE-DESIGN, RE-ENGINEERING AND REVIEW OF SUBSTITUTION. ONLY ONE (1) ENGINEERING REVIEW TIME IS ALLOWED FOR EACH PRODUCT SUBSTITUTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REVIEW TIME AND SHALL PAY ARCHITECT AND ENGINEER'S TIME AT THEIR PROFESSIONAL RATE SCHEDULE.
3. HE HAS CONFIRMED THAT THE PROPOSED SUBSTITUTION WILL HAVE NO ADVERSE AFFECT ON OTHER TRADES, THE CONSTRUCTION SCHEDULE, OR SPECIFIED WARRANTY REQUIREMENTS.
4. HE HAS CONFIRMED THAT MAINTENANCE AND SERVICE PARTS WILL BE LOCALLY AVAILABLE FOR THE PROPOSED SUBSTITUTION.
E. COST SAVINGS RESULTING FROM SUBSTITUTION SHALL BE RETURNED TO THE CONTRACT OR THE OWNER IF THE SUBSTITUTION IS PERMITTED.
F. NO WORK INVOLVING MATERIALS SUBMITTED FOR SUBSTITUTION SHALL PROCEED UNTIL WRITTEN ACCEPTANCE IS RECEIVED FROM THE OWNER. THE OWNER IS THE FINAL JUDGE OF ACCEPTABILITY OF PREFERRED SUBSTITUTIONS.

1.10 COORDINATION
A. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICT AND TO PROVIDE CORRECT ROUGH-IN AND CONNECTION FOR EQUIPMENT FURNISHED UNDER OTHER TRADES THAT REQUIRE ELECTRICAL CONNECTIONS. INFORM CONTRACTORS OF OTHER TRADES OF THE REQUIRED ACCESS TO AND CLEARANCES AROUND ELECTRICAL EQUIPMENT TO MAINTAIN SERVICE ABILITY AND CODE COMPLIANCE.
B. VERIFY EQUIPMENT DIMENSIONS AND REQUIREMENTS WITH PROVISIONS SPECIFIED UNDER THIS SECTION. CHECK ACTUAL JOB CONDITIONS BEFORE FABRICATING WORK. REPORT NECESSARY CHANGES IN TIME TO PREVENT NEEDLESS WORK, CHANGES OR ADDITIONS, SUBJECT TO ADDITIONAL COMPENSATION, WHICH ARE MADE WITHOUT WRITTEN AUTHORIZATION AND AN AGREED PRICE, SHALL BE AT THE CONTRACTOR'S RISK AND EXPENSE.

1.11 CUTTING AND PATCHING
A. ALL CUTTING AND PATCHING REQUIRED FOR WORK OF THIS DIVISION IS INCLUDED HEREIN. COORDINATION WITH GENERAL CONTRACTOR AND OTHER TRADES IS IMPERATIVE. CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR AND THE ADDED EXPENSE OF ADJUSTING FOR IMPROPER HOLES, SUPPORTS, ETC.

1.12 ACCEPTANCE AND DEMONSTRATION
A. UPON COMPLETION OF THE WORK, AT A TIME TO BE DESIGNATED BY THE OWNER, THE CONTRACTOR SHALL DEMONSTRATE FOR THE OWNER THE OPERATION OF THE ELECTRICAL INSTALLATION, INCLUDING ANY AND ALL SPECIAL ITEMS INSTALLED BY HIM OR INSTALLED UNDER HIS SUPERVISION.
B. PROPERLY SET LIGHTING CONTROL PANELS, AUTOMATIC TIME SWITCHES, ETC. TO PERFORM SWITCHING OPERATIONS IN ACCORDANCE WITH SCHEDULES PROVIDED BY THE OWNER'S REPRESENTATIVE, AND DEMONSTRATE (USING THE MANUFACTURER'S OPERATING INSTRUCTIONS) HOW TO OVERRIDE CONTROLS AND/OR TEST TIME SWITCHES PROGRAMMING.

1.13 RECORD DRAWINGS AND EQUIPMENT DATA
A. MAINTAIN ONE SET OF CLEAN WORKING DRAWINGS AT THE JOB SITE AND ENTER DAILY SUCH "AS-BUILT" INFORMATION AS FEEDER AND SERVICE ROUTES, PULL BOX LOCATIONS AND CHANGES IN LAYOUT OR ARRANGEMENT WHICH OCCUR DURING CONSTRUCTION. DELIVER COMPLETED "RED LINE AS-BUILTS" DRAWINGS TO THE OWNER.
B. SUBMIT TO THE OWNER'S REPRESENTATIVE A SET OF "AS BUILT" DRAWINGS IN VELLUM AND CAD FILE. AS BUILT COMMENTS SHALL BE WRITTEN IN A LEGIBLE MANNER IN THE SAME STYLE AS THE CONTRACT DOCUMENTS. ALSO SUBMIT THREE COPIES OF DATA SHEETS OR OTHER CURRENT MANUFACTURERS' PUBLICATIONS FOR EACH ITEM OF ELECTRICAL EQUIPMENT FURNISHED FOR THE PROJECT INCLUDING AT LEAST THESE DATA:
1. TECHNICAL DESCRIPTION AND REPLACEABLE PARTS LIST.
2. PHYSICAL DESCRIPTION AND INSTALLATION INSTRUCTIONS.
3. USER'S MANUAL AND OPERATING INSTRUCTIONS.
4. MANUFACTURER'S WARRANTY.

1.14 CLEAN-UP
A. RID THE PREMISES OF SCRAP MATERIALS, TRASH AND DEBRIS BOTH DURING CONSTRUCTION AND AT COMPLETION OF THE PROJECT. LEAVE THE BUILDING AND SURROUNDING AREA IN A CLEAN AND ORDERLY CONDITION.

1.15 GUARANTEE
A. GUARANTEE THE INSTALLATION FREE FROM DEFECTS OF WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATE OF CERTIFICATION OF FINAL PAYMENT AND PROMPTLY REMEDY ANY DEFECTS DEVELOPING DURING THIS PERIOD, WITHOUT CHARGE.

1.16 TEMPORARY SERVICES
A. PROVIDE ADEQUATE AND SAFE TEMPORARY ELECTRICAL POWER AND LIGHTING THROUGHOUT THE CONSTRUCTION AND FINISHING OF THE PREMISES. IN ADDITION TO SPECIAL OR UNUSUAL REQUIREMENTS, PROVIDE AT LEAST THESE ITEMS:
1. THREE (3) 20-AMP CIRCUITS FOR CONSTRUCTION POWER TOOLS. PROVIDE GFI TEMPORARY CIRCUITS WITH COVERPLATES TO MEET OSHA REQUIREMENTS.
2. THREE OR MORE LIGHT STRINGS SUSPENDED APPROXIMATELY ONE FOOT BELOW THE HEIGHT OF FINISH CEILING WITH LAMPS SPACED NOT MORE THAN TWELVE FEET ON CENTERS. STRINGS SHALL BE RUN THE LENGTH OF THE STORE SPACE PARALLEL TO THE DEMISING WALLS, WITH ONE STRING WITHIN EIGHT FEET OF EACH WALL AND ONE (OR MORE) INTERMEDIATE STRING(S) ARRANGED TO LIMIT THE SPACING BETWEEN ROWS TO SIXTEEN FEET OR LESS.
3. FLOOD LIGHTING AND TASK LIGHTING FOR PAINTING AND OTHER FINISH WORK.
B. WHERE SCOPE INCLUDES THE REMOVAL OF EXTERIOR LIGHTING, CONTRACTOR SHALL PROVIDE TEMPORARY EXTERIOR LIGHTING UNTIL THE NEW EXTERIOR LIGHTING HAS BEEN ACCEPTED BY THE OWNER. TEMPORARY EXTERIOR LIGHTING SHALL COMPLY WITH IESNA STANDARDS FOR SECURITY LIGHTING.
C. WHERE SCOPE INCLUDES THE DISABLING OF A FIRE ALARM SYSTEM, CONTRACTOR SHALL PROVIDE A FIRE WATCH. FIRE WATCH SHALL COMPLY WITH NFPA AND LOCAL FIRE MARSHAL REQUIREMENTS.
D. WHEN PERMANENT ELECTRICAL SERVICE IS OPERABLE, DISCONNECT AND REMOVE FROM THE PREMISES THE MATERIALS AND EQUIPMENT USED FOR TEMPORARY POWER AND LIGHTING. RESTORE MODIFICATIONS AND REPAIR DAMAGE CAUSED BY THE INSTALLATION, USE OR REMOVAL OF TEMPORARY SERVICE PROVISIONS.

END OF SECTION.

PART 2 - PRODUCTS

2.01 MATERIAL APPROVAL
A. ALL MATERIALS MUST BE NEW AND BEAR UNDERWRITER'S LABORATORIES LABEL. MATERIALS THAT ARE NOT COVERED BY UL TESTING STANDARDS SHALL BE TESTED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY OR A GOVERNMENTAL AGENCY. MATERIAL NOT IN ACCORDANCE WITH THESE SPECIFICATIONS MAY BE REJECTED EITHER BEFORE OR AFTER INSTALLATION.
B. FOR LEED QUALIFIED BUILDINGS, PRODUCTS SHALL BE MANUFACTURED WITHIN 100 MILES OF PROJECT SITE.

2.02 BASIC ELECTRICAL MATERIALS
A. CONDUITS AND RACEWAYS
1. RIGID STEEL: HOT-DIPPED GALVANIZED.
2. INTERMEDIATE METAL CONDUIT (IMC): HOT-DIPPED GALVANIZED.
3. ELECTRICAL METALLIC TUBING (EMT): ELECTRO-GALVANIZED.
4. RIGID NON METALLIC CONDUIT (PVC SCHEDULE 40)
5. WIREWAY: CODE GAUGE STEEL, WITH KNOCKOUTS AND HINGED COVER, CORROSION RESISTANT GRAY BAKED ENAMEL FINISH.
6. PROVIDE FITTINGS AND ACCESSORIES APPROVED FOR THE PURPOSE EQUAL IN ALL RESPECTS TO THE CONDUIT OR RACEWAY. EMT CONNECTORS AND COUPLINGS SHALL BE STEEL SETSCREW TYPE INDOORS AND STEEL COMPRESSION TYPE IN WET LOCATIONS AND OUTDOORS.

B. WIRES AND CABLES
1. FOR POWER AND LIGHTING SYSTEM 600V OR LESS:
a. CONDUCTOR:
• MINIMUM SIZE #12 AWG.
• #12 AND #10 AWG SOLID COPPER
• #8 AWG AND LARGER SHALL BE STRANDED COPPER.
b. INSULATION TYPE:
• #12 TO #1 AWG: THWN FOR WET OR UNDERGROUND AND THHN FOR DRY LOCATIONS.
• #1/0 THROUGH #4/0 AWG: XHHW (55 MILS).
• #250 MCM AND LARGER: XHHW (65 MILS).
• GROUNDING WIRE: TW.
c. METAL CLAD (MC) CABLES:
• CONDUCTORS ARE MADE FROM CLASS B COPPER. SIZES 14AWG, 12 AWG AND 10 AWG MAY BE EITHER SOLID OR STRANDED, 8AWG AND LARGER ARE STRANDED. THE CONDUCTORS ARE CONSTRUCTED WITH THHN/THWN OR XHHW-2 INSULATION RATED FOR 90OC DRY OR WET AT 600 VOLTS MAX. A COPPER GROUNDING CONDUCTOR IS CABLED WITH THE PHASE CONDUCTORS. THE GROUND CONDUCTOR HAS A GREEN INSULATION. AN INTERLOCKED ALUMINUM ARMOR IS HELICALLY FORMED AROUND THE CONDUCTOR. ASSEMBLY AND IS 45% LIGHTER THAN STEEL MC CABLE.
2. FOR SIGNAL AND COMMUNICATIONS CIRCUIT:
a. SPECIAL CABLES SHALL BE AS SPECIFIED ON DRAWINGS.
b. CONDUCTORS FOR GENERAL USE SHALL BE STRANDED COPPER CONDUCTOR, #16 AWG MINIMUM, WITH THWN INSULATION FOR UNDERGROUND OR WET LOCATIONS AND THHN INSULATION FOR DRY LOCATIONS.
3. ACCEPTABLE PRODUCTS: GENERAL ELECTRIC, ANACONDA, OKONITE, PARANITE OR TRIANGLE PRODUCTS CONFORMING OR EXCEEDING APPLICABLE NEMA STANDARDS.

C. OUTLET BOXES, JUNCTION AND PULLBOXES
1. OUTLET BOXES: 4" SQUARE X 1-1/2" DEEP (OR LARGER) GALVANIZED SHEET STEEL KO-TYPE WITH PLASTER RING AND COVER FOR GENERAL INTERIOR USE AND CAST METAL TYPE FS OR FD WITH MATCHING SCREW COVERS FOR EXTERIOR AND EXPOSED INTERIOR LOCATIONS (GASKETED IN DAMP OR WET LOCATIONS).
2. JUNCTION BOXES (FLOOR BOX NOT INCLUDED) SHALL BE SAME AS OUTLET BOXES UP TO 42 CU. IN. AND CODE-GAUGE STEEL IN LARGER SIZES WITH SURFACE OR FLUSH-TYPE SCREW-MOUNTED TRIM COVERS, BOTH BOXES AND COVERS INHIBITOR-PRIMED AND PAINTED INSIDE OUT.
3. PULL BOXES SHALL BE SAME AS JUNCTION BOXES UNLESS INDICATED OTHERWISE ON THE DRAWINGS, WITH COVERS.
4. TELEPHONE OUTLET BOXES SHALL BE THE TYPE AND SIZE REQUIRED BY THE SERVING TELEPHONE COMPANY BUT NOT SMALLER THAN 4-11/16" SQUARE X 2-1/8" DEEP WITH SINGLE-GANG RING AND SIERRA #S-754N SPLIT PLATE BUSHING.
5. UNDERGROUND AND SITE JUNCTION BOXES, HANDHOLES, AND MANHOLES SHALL BE MADE UP OF PRECAST CONCRETE WITH TRAFFIC RATED STEEL COVERS. EXTENSIONS SHALL BE PROVIDED AS NECESSARY TO MAIN REQUIRED COVERAGE FOR DUCT BANKS. B.) PROVIDE 10" X 17' (MIN) FOR PULLBOXES, 36" X 60" (MIN) FOR HANDHOLES, AND 6'X8'X6' (MIN) MANHOLES.

D. WIRING DEVICES AND PLATES
1. WIRING DEVICES AND PLATES SHALL BE LISTED FOR SPECIFIC USE.
2. ALL POWER RECEPTACLES AND SWITCHES FOR GENERAL PURPOSE CIRCUITS SHALL BE NEMA SPECIFICATION GRADE, RATED AS FOLLOWS:
a. GENERAL PURPOSE RECEPTACLES: NEMA 5-15R OR 5-20R
b. LAB BENCH RECEPTACLES: NEMA 5-20R
c. DEDICATED RECEPTACLES: NEMA 5-20R
3. SWITCHES: TWENTY (20) AMPS, 120/277 VOLTS.
a. IN MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, ILLUMINATED LIGHT SWITCHES SHALL BE PROVIDED.
4. ALL GENERAL PURPOSE TWENTY (20) A, 125/250 V RECEPTACLES AND 120/277 V SWITCHES SHALL CONFORM TO NEMA WD-1 SPECIFICATIONS.
5. UNLESS OTHERWISE INDICATED, WIRING DEVICES AND COVER PLATES SHALL BE FURNISHED AND INSTALLED IN COLOR TO MATCH FINISH SURFACE WHERE IT IS LOCATED ON, I.E., DARK BROWN, BEIGE, WHITE OR STAINLESS STEEL.
a. OUTLETS SERVED FROM AN EMERGENCY POWER SYSTEM SHALL BE RED.
b. OUTLETS SERVED FROM THE NORMAL POWER SYSTEM SHALL BE IVORY OR WHITE, TO MATCH ADJACENT FINISH.
c. OUTLETS SERVED FROM AN ISOLATED GROUND SHALL BE ORANGE WITH ISOLATED GROUND (TRIANGULAR) MARKING.

E. CONDUIT HANGERS
1. FOR INDIVIDUAL CONDUIT RUNS NOT DIRECTLY FASTENED TO THE STRUCTURE, USE ROD HANGERS MANUFACTURED BY CADDY, UNISTRUT OR POWERSTRUT. FOR MULTIPLE CONDUIT RUNS, USE UNISTRUT OR POWERSTRUT TRAPEZE TYPE CONDUIT SUPPORT DESIGNED FOR MAXIMUM DEFLECTION NOT GREATER THAN 1/8".

2.03 PANELBOARDS
A. UNLESS OTHERWISE NOTED ACCEPTABLE MANUFACTURERS ARE CUTLER HAMMER; SQUARE D, SIEMENS, GENERAL ELECTRIC, OR APPROVED EQUAL. ELECTRICAL EQUIPMENT ARE BASED ON THE FOLLOWING:
1. LIGHTING AND APPLIANCE PANELBOARDS - SQUARE D NF AND NQOD
2. POWER PANELBOARDS - SQUARE D, I LINE
a. CONSTRUCTION: CABINETS SHALL BE OF CODE GAUGE, GALVANIZED STEEL, SURFACE OR FLUSH MOUNTED AS INDICATED. DOORS SHALL BE OF COLD-ROLLED STEEL WITH CONCEALED HINGES AND FLUSH CATCH AND LOCK. ALL PANELS SHALL BE KEYED ALIKE. PANELS LOCATED ADJACENT TO EACH OTHER SHALL HAVE IDENTICALLY SIZED ENCLOSURE AND TRIMS. MINIMUM PANEL WIDTH SHALL BE 20". FINISH EXPOSED PART WITH ONE COAT OF PRIMER AND TWO COATS OF LIGHT GREY ENAMEL SUITABLE FOR OVER PAINTING IN FIELD IF DESIRED.
b. BUS BARS: PROVIDE GROUND BLOCK WITH FULL COMPLEMENT OF TERMINALS IN ADDITION TO INSULATED NEUTRAL BUS. FUTURE BREAKER SPACES SHALL HAVE COMPLETE PROVISION INCLUDING BUSSES AND CONNECTING HARDWARE.
c. CIRCUIT BREAKERS: SHALL BE QUICK-MAKE, QUICK-BREAK, MOLDED CASE TYPE:
• 120/240 VOLT PANELS: SHALL BE SQUARE D TYPE "QOB" LINE, BOLT-ON TYPE, WITH MINIMUM SYMMETRICAL INTERRUPTING CAPACITY AS SHOWN.
• MULTI-POLE UNITS WITH COMMON TRIP ELEMENT. #CIRCUIT BREAKERS USED ON "ON-OFF" CONTROL OF FLUORESCENT LIGHTING (PANELBOARD SWITCHING) SHALL BE UNDERWRITERS' LABORATORIES LISTED AND MARKED "SWD" TO INDICATE THEIR SUITABILITY.

B. IDENTIFICATION: PROVIDE SCREWED-ON (NO ADHESIVES) BAKELITE OR PHOTO-ETCHED METALLIC NAMEPLATE IDENTIFICATION ON OUTSIDE OF EACH PANEL SHOWING PANEL DESIGNATION, VOLTAGE AND PHASE IN MINIMUM 1/8" HIGH LETTERS. EACH PANEL SHALL CONTAIN A METAL-FRAMED CIRCUIT DIRECTORY INSIDE COVER, WITH PLASTIC PROTECTOR.

C. COMPLETE SHOP DRAWINGS ARE REQUIRED. DIMENSIONS SHALL MATCH FLOOR PLANS AND ELEVATIONS.

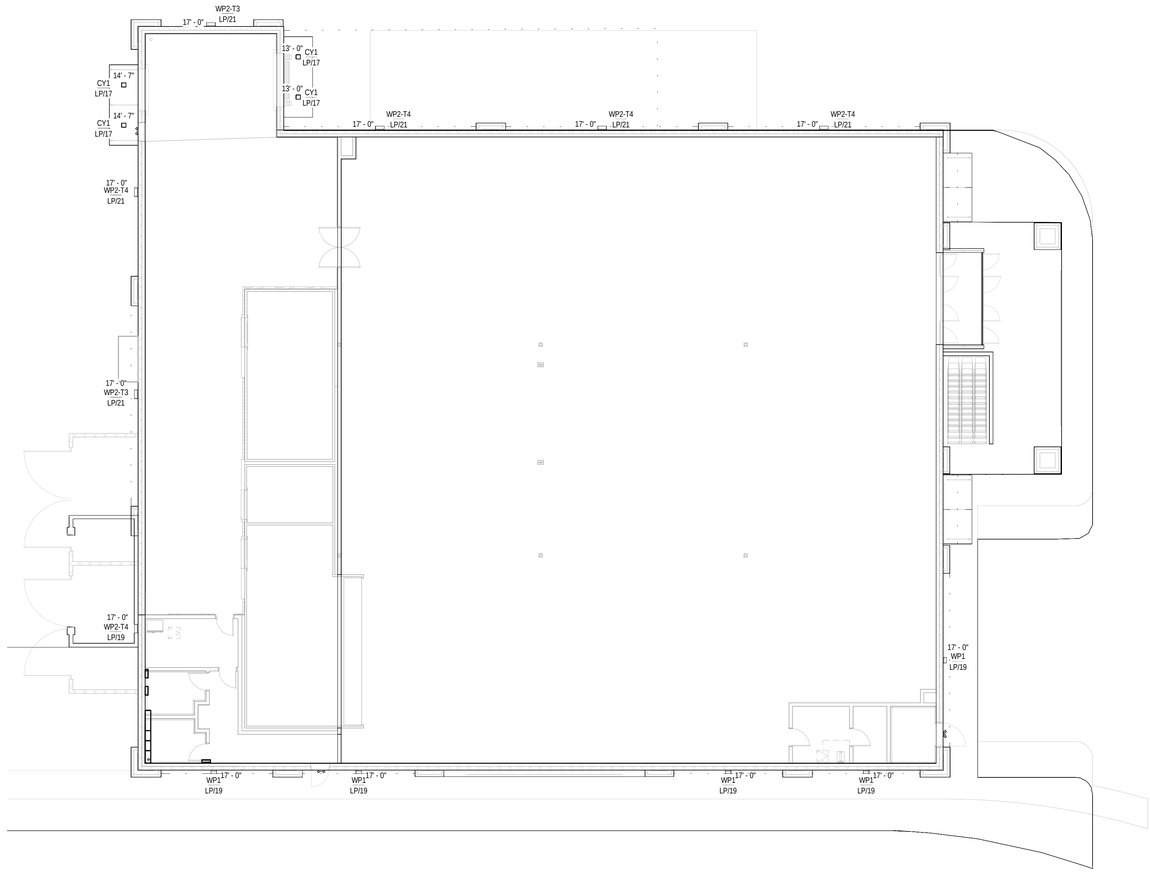
2.04 LOAD CENTERS
A. LOAD CENTERS TO BE FURNISHED AND INSTALLED AT LOCATIONS AS SHOWN ON THE DRAWINGS. LOAD CENTERS SHALL BE OF THE TYPE APPROVED,INDICATED, AND SPECIFIED HEREIN
B. ENCLOSURE SHALL BE FABRICATED OF COLD ROLLED STEEL FOR NEMA 1 AND GALVANIZED STEEL OR EQUIVALENT RUST-RESISTANT STEEL FOR NEMA 3R. INDOOR TYPE L ENCLOSURES SHALL HAVE A FLUSH FRONT, WITH FINISH TO BE AS SELECTED BY ARCHITECT. WHEN USED, OUTDOOR TYPE 3R ENCLOSURES SHALL HAVE A HASP TO SECURE THE COVER. A DIRECTORY LABEL SHALL BE PROVIDED WITH CIRCUITS IDENTIFIED AS INDICATED ON THE SCHEDULE
C. BUS BAR CONNECTIONS TO THE BRANCH CIRCUIT BREAKERS SHALL BE THE DISTRIBUTED PHASE TYPE AND SHALL ACCEPT PLUG-ON CIRCUIT BREAKERS. 300-400 A LOAD CENTERS SHALL ACCEPT A 150 A MAXIMUM BOLT-ON BREAKER IN ADDITION TO PLUG-ON TYPES. C. SHORT CIRCUIT CURRENT RATINGS AMPERE RMS SYMMETRICAL SHORT CIRCUIT RATINGS SHALL BE COORDINATED WITH PG&E.
D. CIRCUIT BREAKERS SHALL BE SQUARE D TYPE QO (PLUG-ON) THERMAL MAGNETIC TRIP OR APPROVED EQUAL, WITH AN INTEGRAL CROSSBAR TO ENSURE SIMULTANEOUS OPENING OF ALL POLES IN MULTI-POLE CIRCUIT BREAKERS. CIRCUIT BREAKERS SHALL HAVE AN OVERCENTER, TRIPFREE, TOGGLE-TYPE OPERATING MECHANISM WITH QUICK-MAKE, QUICK-BREAK ACTION AND POSITIVE HANDLE INDICATION. HANDLES SHALL HAVE ON, OFF, AND "TRIPPED" POSITIONS. IN ADDITION, TRIP INDICATION SHALL INCLUDE A VISI-TRIP INDICATOR APPEARING IN THE WINDOW OF THE CIRCUIT BREAKER CASE (THROUGH 125 AMPERES). CIRCUIT BREAKERS SHALL BE UL LISTED IN ACCORDANCE WITH UL STANDARD 489 WITH CURRENT RATINGS AS NOTED ON THE PLANS. INTERRUPTING RATINGS SHALL BE SELECTED TO PROVIDE THE REQUIRED LOAD CENTER SHORT CIRCUIT CURRENT RATING. SINGLE-POLE, 15 AND 20 AMPERE CIRCUIT BREAKERS INTENDED TO SWITCH FLUORESCENT LIGHTING LOADS ON A REGULAR BASIS SHALL HAVE THE SWD MARKING. TWO- AND THREE-POLE CIRCUIT BREAKERS 15-60 AMPERES INTENDED FOR USE WITH AIR CONDITIONING, HEATING, AND REFRIGERATION EQUIPMENT HAVING MOTOR GROUP COMBINATIONS AND MARKED AS SUCH SHALL HAVE THE HACR MARKING.
E. MANUFACTURERS: PANELBOARDS SHALL BE GENERAL ELECTRIC TYPE "AQ" OR TYPE "AE" OR EQUIVALENT PRODUCTS OF WESTINGHOUSE, SQUARE-D OR SIEMENS-ITE.

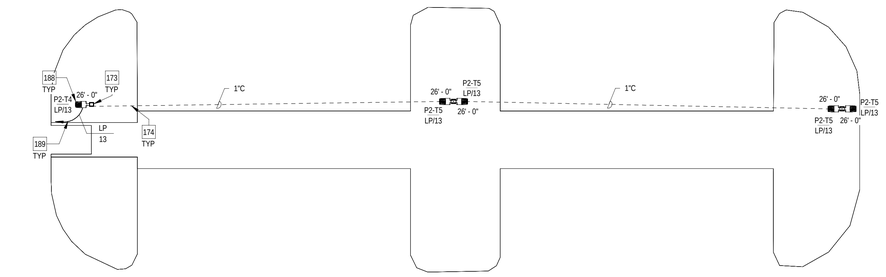
2.05 SERVICE ENTRANCE EQUIPMENT
A. SERVICE ENTRANCE EQUIPMENT ARE SUBJECT TO THE REQUIREMENTS OF THE UTILITY COMPANIES PROVIDING SERVICES TO PROJECT SITE. EQUIPMENT SHOWN ON THE CONSTRUCTION DOCUMENTS IS A GENERAL GUIDELINE AND SHALL BE ADJUSTED TO MEET SPECIFIC UTILITIES REQUIREMENTS.
B. ENCLOSURES, PULL SECTIONS, AND TERMINATIONS SHALL BE TOTALLY ENCLOSED, DEAD FRONT, FREE-STANDING, FRONT AND REAR ALIGNED. ACCESSIBILITY SHALL BE FROM THE FRONT. THE EQUIPMENT SHALL BE NEMA TYPE 1 OR NEMA TYPE 3R NON-WALK-IN RAINPROOF. THE FRAMEWORK SHALL BE STEEL, SECURED TOGETHER TO SUPPORT ALL COVER PIECES, BUSSING, AND COMPONENT DEVICES DURING SHIPMENT AND INSTALLATION. ALL COVERS SHALL HAVE UTILITY SEALING PROVISIONS WHERE REQUIRED BY THE UTILITY.
C. THE ENTIRE SERVICE ENTRANCE EQUIPMENT SHALL BE SUITABLE FOR OPERATION AT THE SPECIFIED AVAILABLE FAULT CURRENT. THE EQUIPMENT SHALL BE LABELED TO INDICATE THE MAXIMUM AVAILABLE FAULT CURRENT RATING, TAKING INTO ACCOUNT THE STRUCTURE, BUSSING, MAIN DISCONNECTS, AND TENANT MAIN DISCONNECTS.
D. THE METERING EQUIPMENT THROUGH BUS SHALL BE TIN-PLATED ALUMINUM. THE BUSSING SHALL BE OF SUFFICIENT CROSS-SECTIONAL AREA TO MEET UL STANDARD 891 FOR TEMPERATURE RISE. THE THROUGH BUS SHALL EXTEND THE FULL LENGTH OF THE EQUIPMENT AND BE 100% RATED THROUGHOUT THE LINE-UP. TAPERED BUS IS NOT ACCEPTABLE. THERE SHALL BE PROVISIONS FOR FUTURE SPLICING OF ADDITIONAL SECTIONS FROM EITHER END. THE NEUTRAL BUS SHALL ALSO BE 100% RATED. THE GROUND BUS SHALL BE SIZED PER UL STANDARD 891, AND OF THE SAME MATERIAL AS THE THROUGH BUS. BUS CONNECTIONS SHALL BE BOLTED WITH GRADE 5 BOLTS AND CONICAL SPRING WASHERS.
E. UTILITY COMPARTMENTS SHALL BE ARRANGED IN HOT SEQUENCE. THE METERING COMPARTMENTS SHALL BE BARRIERED AND COVERS SHALL HAVE SEALING PROVISIONS. THE METERING COMPARTMENTS SHALL MEET EUSERC STANDARDS, OR THE APPLICABLE UTILITIES STANDARDS.
F. THE MAIN DISCONNECT SHALL BE CIRCUIT BREAKER. EQUIPMENT GROUND FAULT SHALL BE PROVIDED WHEN REQUIRED PER THE NATIONAL ELECTRICAL CODE (NEC), OR WHEN REQUESTED BY THE CUSTOMER.
G. METER SOCKETS SHAL

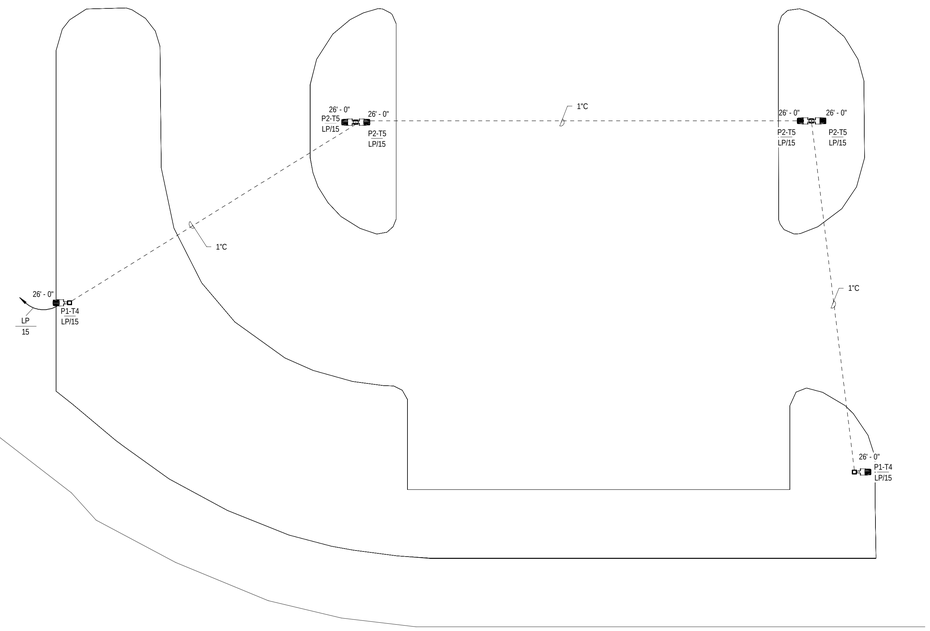
SHEET KEYNOTES	
#	KEYNOTE
173	PROVIDE 10"W X 17"L X 24"D LIGHTING PULLBOX WITH FLUSH CONCRETE COVER WITH BOLT DOWN. PROVIDE "SITE LIGHTING" ENGRAVED ON THE COVER.
174	PROVIDE UNDERGROUND CONDUIT (SIZE AS SHOWN ON PLAN) AND WIRES BETWEEN UNDERGROUND PULL BOXES FOR SITE LIGHTING WIRES AS INDICATED. REFER TO PANEL LP SCHEDULE ON SHEET E6-02 FOR FEEDER SIZES. COORDINATE EXACT CONDUIT ROUTING WITH GOI PROJECT MANAGER IN FIELD.
188	SITE LIGHTING TO BE INSTALLED BY E.C. REFER TO SHEET E1-11 FOR LIGHTING FIXTURE SCHEDULE INFORMATION.
189	PROVIDE UNDERGROUND CONDUIT AND WIRES TO PANEL "LP". STUB UP INTO BUILDING AND ROUTE OVERHEAD TO PANEL "LP" LOCATION. REFER TO PANEL LP SCHEDULE ON SHEET E6-02 FOR WIRE SIZES. FIELD COORDINATE EXACT CONDUIT ROUTING WITH GO PROJECT MANAGER IN FIELD.

SITE POWER GENERAL NOTES

1. INSTALLATION OF CONDUITS AND WIRES SHALL BE CONCEALED ABOVE THE CEILING AND BEHIND WALLS. WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FOR EXPOSED LOCATIONS PRIOR TO ROUGH IN.
2. CONDUIT SHOWN ON PLAN IS DIAGRAMATIC ONLY. COORDINATE ROUTING WITH EXISTING FIELD CONDITIONS.







1 E1-01 OVERALL ELECTRICAL SITE PLAN
SCALE: 3/32" = 1'-0"

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PROJECT MANAGER
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QUALITY CONTROL
RN
DRAWN BY
AE

PROJECT NAME

CENTRAL POINT, OR

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE

OVERALL ELECTRICAL SITE PLAN

SHEET NUMBER

E1-01

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LIGHT FIXTURE SCHEDULE

TYPE	COUNT	FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	VOLTS	WATTS	MOUNTING	NOTE
A1	61	4' HIGHBAY, 15,000LM, TWO DRIVER, 80CRI, 40K, FROSTED LENS, 112W	TAMLITE	IBLED44-150D2L840 LF1	120 V	112	ELEVATION AS NOTED ON PLAN. VERIFY WITH GOI FOR ALL SUSPENDED FIXTURES.	1,2
A2	21	4' HIGHBAY, 15,000LM, TWO DRIVER, 80CRI, 40K, FROSTED LENS, 112W, EM 2000LM BACKUP	TAMLITE	IBLED44-150D2L840 LF1 EM	120 V	112	ELEVATION AS NOTED ON PLAN. VERIFY WITH GOI FOR ALL SUSPENDED FIXTURES.	1,2
B1	13	4' HIGHBAY, 15,000LM, TWO DRIVER, 80CRI, 40K, FROSTED LENS, 112W	TAMLITE	IBLED44-150D2L840 LF1	120 V	112	ELEVATION AS NOTED ON PLAN. VERIFY WITH GOI FOR ALL SUSPENDED FIXTURES.	1,2
B2	6	4' HIGHBAY, 15,000LM, TWO DRIVER, 80CRI, 40K, FROSTED LENS, 112W, EM 2000LM BACKUP	TAMLITE	IBLED44-150D2L840 LF1 EM	120 V	112	ELEVATION AS NOTED ON PLAN. VERIFY WITH GOI FOR ALL SUSPENDED FIXTURES.	1,2
C1	7	4' NARROW STRIP, 4000LM, 40K, OPAQUE LENS	TAMLITE	SLNLED4-40D101L840	120 V	33	ELEVATION AS NOTED ON PLAN.	1
C2	5	4' NARROW STRIP, 4000LM, 40K, OPAQUE LENS, EM 2000LM BACKUP	TAMLITE	SLNLED4-40D101L840 EM	120 V	33	ELEVATION AS NOTED ON PLAN.	1
C4	3	8' NARROW STRIP, 8000LM, 40K, OPAQUE LENS, EM 2000LM BACKUP	TAMLITE	SLNLED8-80D101L840 EM	120 V	70	ELEVATION AS NOTED ON PLAN.	1
CY	4	LED SURFACE MOUNTED CANOPY, 3787LM, 70CRI, 40K	ORACLE	OVR-101-LED-4000L-DIM10 -MVOLT-40K-WH	120 V	27	SURFACE MOUNT TO UNDERSIDE OF CANOPY. ELEVATION AS NOTED ON PLAN.	1
CY1	4	LED SURFACE MOUNTED CANOPY, 3300LM, 83CRI, 40K	RAB	VANLED20NF	120 V	22	SURFACE MOUNT TO UNDERSIDE OF CANOPY. ELEVATION AS NOTED ON PLAN.	1
D1	3	4' HIGHBAY, 10,000LM, ONE DRIVER, 80CRI, 40K, FROSTED LENS, 81W	TAMLITE	IBLED42-100D1L840 LF1	120 V	81	ELEVATION AS NOTED ON PLAN. VERIFY WITH GOI FOR ALL SUSPENDED FIXTURES.	1,2
D2	2	4' HIGHBAY, 10,000LM, ONE DRIVER, 80CRI, 40K, FROSTED LENS, 81W, EM 2000LM BACKUP	TAMLITE	IBLED42-100D1L840 LF1 EM	120 V	81	ELEVATION AS NOTED ON PLAN. VERIFY WITH GOI FOR ALL SUSPENDED FIXTURES.	1,2
E2	1	2X4 TROFFER, 4000LUMENS W/ 10% EMERGENCY BACKUP	TAMLITE	BLP24-4K-40-DIM RECESSED KIT FRAMEC4FLAN (4000 LMS-4K-80CRI) - EMERGENCY BATTERY PACK)	120 V	40	ELEVATION AS NOTED ON PLAN.	1
P1-T4	2	(1) AREA LIGHTER/ ACUITY / RSX2 LED P1 40K R4 - OVERRAL HEIGHT 26 FT	Acuity Brands Lighting	RSX2-P1-40K-R2-MVOLT-R PA-DDBX- POLE #SRP-BS-S11G-24-S-BRZ	120 V	72	ELEVATION AS NOTED ON PLAN.	1
P2-T4	1	(1) AREA LIGHTER/ ACUITY / RSX2 LED P2 40K R4 - OVERRAL HEIGHT 26 FT	Acuity Brands Lighting	RSX2-P1-40K-R2-MVOLT-R PA-DDBX- POLE #SRP-BS-S11G-24-S-BRZ	120 V	72	ELEVATION AS NOTED ON PLAN.	1
P2-T5	8	(1) AREA LIGHTER/ ACUITY / RSX2 LED P2 40K R5 - OVERRAL HEIGHT 26 FT	Acuity Brands Lighting	RSX2-P1-40K-R2-MVOLT-R PA-DDBX- POLE #SRP-BS-S11G-24-S-BRZ	120 V	72	ELEVATION AS NOTED ON PLAN.	1
R15	10	RECESSED RETROFIT DOWNLIGHT- APERURE TBD-1500LMS-40K-WET	ACUITY	LBR(X) 15LM-40K-AR LSS MWD MVOLT LX2 WL	120 V	19	ELEVATION AS NOTED ON PLAN.	1
V1	6	4' VAPORTIGHT, 4000LM, ONE DRIVER, CLEAR RIBBED LENS, 85CRI, 40K, FREEZERS OPERATE AT -12°F	TAMLITE	CTNLED4-40D1LCR1L840	120 V	34	ELEVATION AS NOTED ON PLAN. SURFACE MOUNT TO TOP OF COOLER/FREEZER	1
V2	3	4' VAPORTIGHT, 4000LM, ONE DRIVER, CLEAR RIBBED LENS, 85CRI, 40K, EM 2000LM BACKUP, FREEZERS OPERATE AT -12°F	TAMLITE	CTNLED4-40D1LCR1L840 EM	120 V	34	ELEVATION AS NOTED ON PLAN. SURFACE MOUNT TO TOP OF COOLER/FREEZER	1
V4	1	8' VAPORTIGHT, 8000LM, ONE DRIVER, CLEAR RIBBED LENS, 85CRI, 40K, EM 2000LM BACKUP, FREEZERS OPERATE AT -12°F	TAMLITE	CTNLED8-80D1LCR1L840 EM	120 V	85	ELEVATION AS NOTED ON PLAN. SURFACE MOUNT TO TOP OF COOLER/FREEZER	1
WP1	5	LED EXTERIOR WALL PACK, 3213LM, 80CRI, 40K	ACUITY	WDGE2 LED P3SW 40K 80CRI VW MVOLT SRM DDBXD	120 V	23	SURFACE MOUNT	1
WP2-T3	2	EXTERIOR WALL PACK, 7524LM, 70CRI, 40K	ACUITY	WDGE3 LED P1 40K 70CRI R3 MVOLT SRM DDBXD	120 V	51	SURFACE MOUNT	1
WP2-T4	5	EXTERIOR WALL PACK, 7753LM, 70CRI, 40K	ACUITY	WDGE3 LED P1 40K 70CRI R4 MVOLT SRM DDBXD	120 V	51	SURFACE MOUNT	1
X1	8	DIE-CAST EM, 1 FACE, WHITE W/ GREEN LETTERS & BATTERY BACKUP	TAMLITE	EXD3GWMEM	120 V	4	REFER TO LIGHTING PLAN FOR MOUNTING HEIGHT. VERIFY WITH GOI. PROVIDE FACES AND CHEVRONS AS SHOWN ON THE DRAWINGS	1
X2	2	DIE-CAST EM, 2 FACE, WHITE W/ GREEN LETTERS & BATTERY BACKUP	TAMLITE	EXD3GWMEM	120 V	4	REFER TO LIGHTING PLAN FOR MOUNTING HEIGHT. VERIFY WITH GOI. PROVIDE FACES AND CHEVRONS AS SHOWN ON THE DRAWINGS	1
XE	4	TWIN HEAD EMERGENCY LIGHT FIXTURE WITH 90 MIN BATTERY BACKUP	TAMLITE	ESR-LED-WP	120 V	3	SURFACE MOUNTED ON BUILDING EXTERIOR. ELEVATION AS NOTED ON PLAN.	1

FIXTURE SCHEDULE NOTES
1. FIXTURES ARE FURNISHED BY GROCERY OUTLET. INSTALLED BY ELECTRICAL CONTRACTOR.
2. AIRCRAFT HANGER CABLES (TAMLITE #HB-2PK-10FT) FURNISHED BY CES. INSTALLED BY ELECTRICAL CONTRACTOR.

FIXTURE PURCHASE NOTE
UNLESS NOTED OTHERWISE, ALL INTERIOR & EXTERIOR LIGHT FIXTURES SHALL BE PURCHASED THROUGH GROCERY OUTLET'S NATIONAL ACCOUNT LIGHTING VENDOR CES/CNS.

CES/CNS PRIMARY CONTACT: NANCY RAMDON-CONNOLLY,
PHONE: (415)-307-8579,
EMAIL: GROCERYOUTLET@CESACCOUNTS.COM

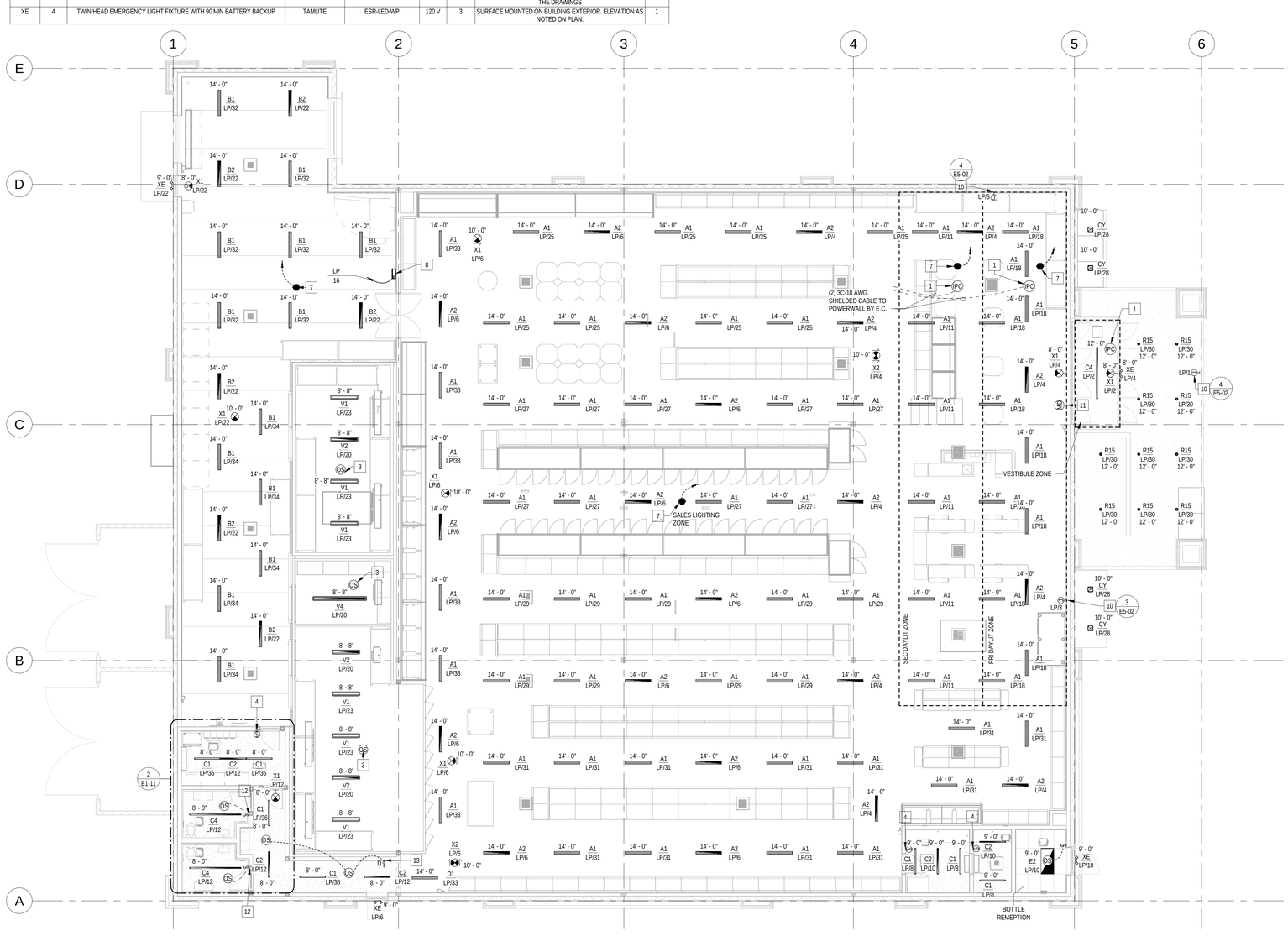
LIGHTING GENERAL NOTES

1. ALL SWITCHES, SENSORS, AND ADDITIONAL LIGHTING CONTROLS DEVICES ARE FURNISHED BY GROCERY OUTLET AND INSTALLED BY E.C. UNLESS OTHERWISE NOTED.
2. INSTALLATION OF CONDUITS AND WIRES SHALL BE CONCEALED ABOVE THE CEILING AND BEHIND WALLS. WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FOR EXPOSED LOCATIONS PRIOR TO ROUGH IN. USE WIREMOLD IN EXPOSED AREAS.
3. ALL EXIT AND EMERGENCY LIGHTS TO BE CONNECTED AHEAD OF ALL LIGHT SWITCHES AND CONTROLS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHT AND EXACT LOCATION OF LIGHT FIXTURES.
5. E.C. SHALL REFER TO REFRIGERATION DRAWINGS FOR LIGHTING AND EMS CONTROL INFORMATION AND REQUIREMENTS.
6. COORDINATE ALL LIGHTING WORK WITH MECHANICAL,, PLUMBING, STRUCTURAL AND FIRE SPRINKLER WORK.
7. PROVIDE APPROVED HANDLE TIE FOR ALL MULTIWIRE BRANCH CIRCUITS AS REQUIRED PER NEC ART. 210.4(B).
8. E.C. SHALL PROVIDE ADDITIONAL EMERGENCY EGRESS LIGHTING AND EXIT SIGNAGE PER FIRE INSPECTOR REQUIREMENTS.
9. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MIN IN CASE OF PRIMARY POWER LOSS.

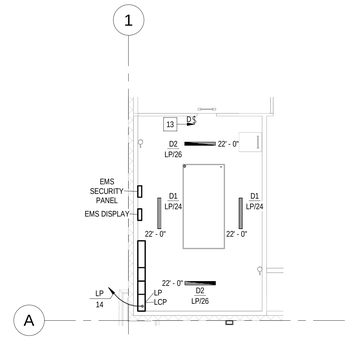
EXIT WAYS HAVE REQUIRED MINIMUM LIGHTING OF AT LEAST 1 FC AT THE FLOOR LEVEL. ALL EXIT / EMERGENCY LIGHTS HAVE A 90 MIN BATTERY PACK AS SEPARATE SOURCE OF POWER. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFO.

SHEET KEYNOTES

#	KEYNOTE
1	INDOOR PHOTOCELL STEM MOUNTED WITH JUNCTION BOX BELOW LIGHT FIXTURES, POINTING DOWN. PHOTOCELLS PROVIDED BY REFRIGERATION OEM, INSTALLED BY RC, WIRED BY EC. EC TO PROVIDE 3C-18 AWG FROM LIGHTING CONTROL PANEL TO EACH DEVICE. FINAL TERMINATIONS BY RC. VERIFY LOCATION WITH RC.
3	CEILING MOUNTED OCCUPANCY SENSOR WITH POWER PACK IN FREEZER/COOLER, PROVIDED, INSTALLED AND WIRED BY EC. WET, REFRIGERATION LISTED, BY WATTSTOPPER CB-100 OR EQUAL. SEE REFRIGERATION DRAWINGS FOR FREEZER/COOLER BOX LIGHTING INFORMATION.
4	WALL SWITCH OCCUPANCY SENSOR (VACANCY TYPE FOR OFFICES <250 SQ FT.) WITH ON/OFF AND DIMMING, DUAL TECHNOLOGY, FURNISHED BY GROCERY OUTLET, INSTALLED AND WIRED BY EC. DEVICE MODEL BY SENSOR SWITCH nWSX-PDT-LV-DX OR EQUAL. SENSOR SHALL BE CONNECTED VIA CAT-5 WITH POWER PACKS FEEDING LIGHT FIXTURES (nPP16-D OR EQUAL) AND FANS/CONTROLLED OUTLETS (nPP16-PLT24 OR EQUAL). ALL SWITCHES, POWER PACKS AND WIRING BY EC. VERIFY FINAL LOCATION PRIOR TO ROUGH-IN.
7	DIMMING CONTROL WIRING HOMERUN TO DIMMING MODULES. SEE LIGHTING CONTROL DETAILS ON E5 SERIES SHEETS FOR COMPLETE LIGHTING CONTROL DETAILS AND REQUIREMENTS.
8	120-MINUTE OVERRIDE AS REQUIRED BY ENERGY CODE, LOCATED IN THE EMS PANEL. COORDINATE WORK AND REQUIREMENTS WITH REFRIGERATION CONTRACTOR AND GOI PROJECT MANAGER.
10	POWER FOR STORE SIGNS PROVIDED BY E.C. PROVIDE JUNCTION BOX AT EACH SIGN LOCATION FOR CONNECTION TO POWER SUPPLY DISCONNECT. POWER SUPPLY AND DISCONNECT PROVIDED BY VENDOR. COORDINATE EXACT LOCATION WITH ARCHITECT AND SIGN VENDOR PRIOR TO INSTALLATION.
11	120-MINUTE HOUSEKEEPING OVERRIDE MOTION SENSOR PROVIDED BY REFRIGERATION OEM, INSTALLED BY RC. EC TO PROVIDE PROVIDE (2)2C-18 AWG CABLE TO EACH DEVICE FROM THE EMS PANEL. FINAL TERMINATIONS BY RC. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH RC.
12	PROVIDE A TOGGLE SWITCH FOR LIGHTING CONTROL, INTERLOCKED WITH CEILING MOUNTED EXHAUST FAN. EXHAUST FAN CONTROLLED BY SAME OCCUPANCY SENSOR/SWITCH AS ROOM LIGHT. SENSORS, SWITCHES AND POWER PACKS FURNISHED BY GROCERY OUTLET, INSTALLED AND WIRED BY EC. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MC.
13	LOW-VOLTAGE WALL POD, SINGLE CHANNEL WITH ON/OFF AND DIMMING CONTROL TYPE (SENSOR SWITCH nPODM DX OR EQUAL). SENSORS, SWITCHES AND POWER PACKS FURNISHED BY GROCERY OUTLET, INSTALLED AND WIRED BY EC. VERIFY FINAL LOCATION PRIOR TO ROUGH-IN. SEE LIGHTING CONTROL DETAILS ON E-5 SERIES SHEETS.



1 LIGHTING PLAN
E1-11 SCALE: 1/8" = 1'-0"



2 LIGHTING PLAN - EQUIPMENT PLATFORM
E1-11 SCALE: 1/8" = 1'-0"

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PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24 - CA140 - 01
SHEET TITLE
LIGHTING PLAN

SHEET NUMBER
E1-11

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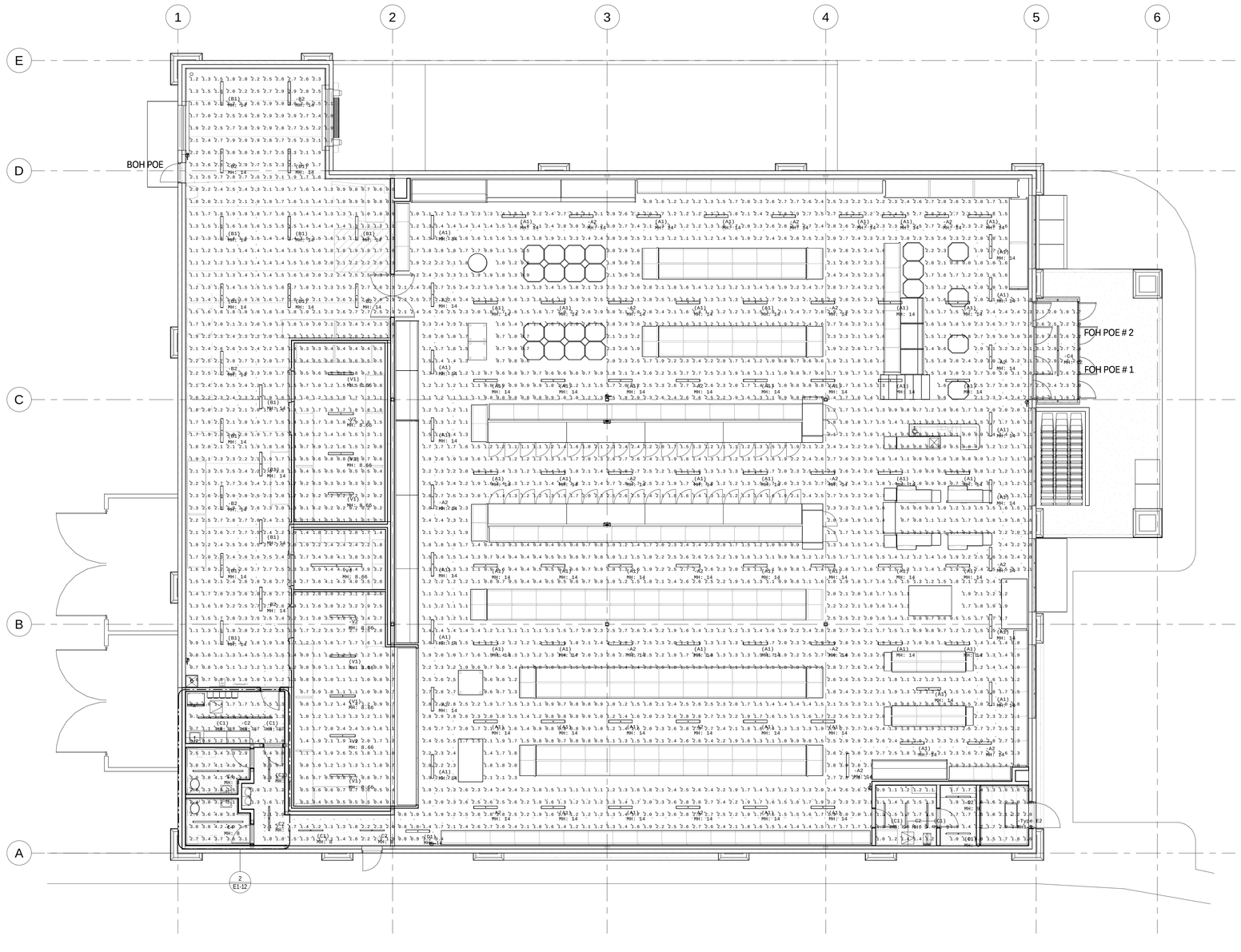
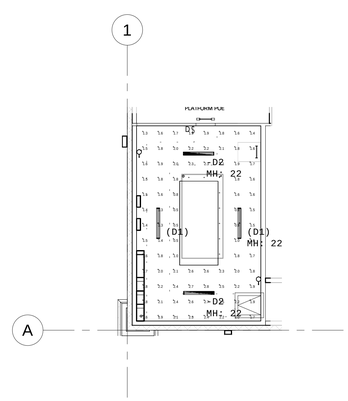


1 E1-12 INTERIOR EMERGENCY LIGHTING PHOTOMETRICS
SCALE: 1/8" = 1'-0"

CALCULATION SUMMARY							
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
BOH POE	Illuminance	Fc	1.96	2.8	0.7	2.80	4.00
FOH POE # 1	Illuminance	Fc	2.07	3.2	1.1	1.88	2.91
FOH POE # 2	Illuminance	Fc	2.17	3.2	1.2	1.81	2.67

CALCULATION SUMMARY							
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PLATFORM POE	Illuminance	Fc	2.04	2.7	1.3	1.57	2.08



2 E1-12 EQUIPMENT PLATFORM EMERGENCY LIGHTING PHOTOMETRICS
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PROJECT NAME

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4951 BIDDLE RD
CENTRAL POINT, OR
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PROJECT NUMBER
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SHEET TITLE
INTERIOR EMERGENCY LIGHTING PHOTOMETRICS

SHEET NUMBER
E1-12

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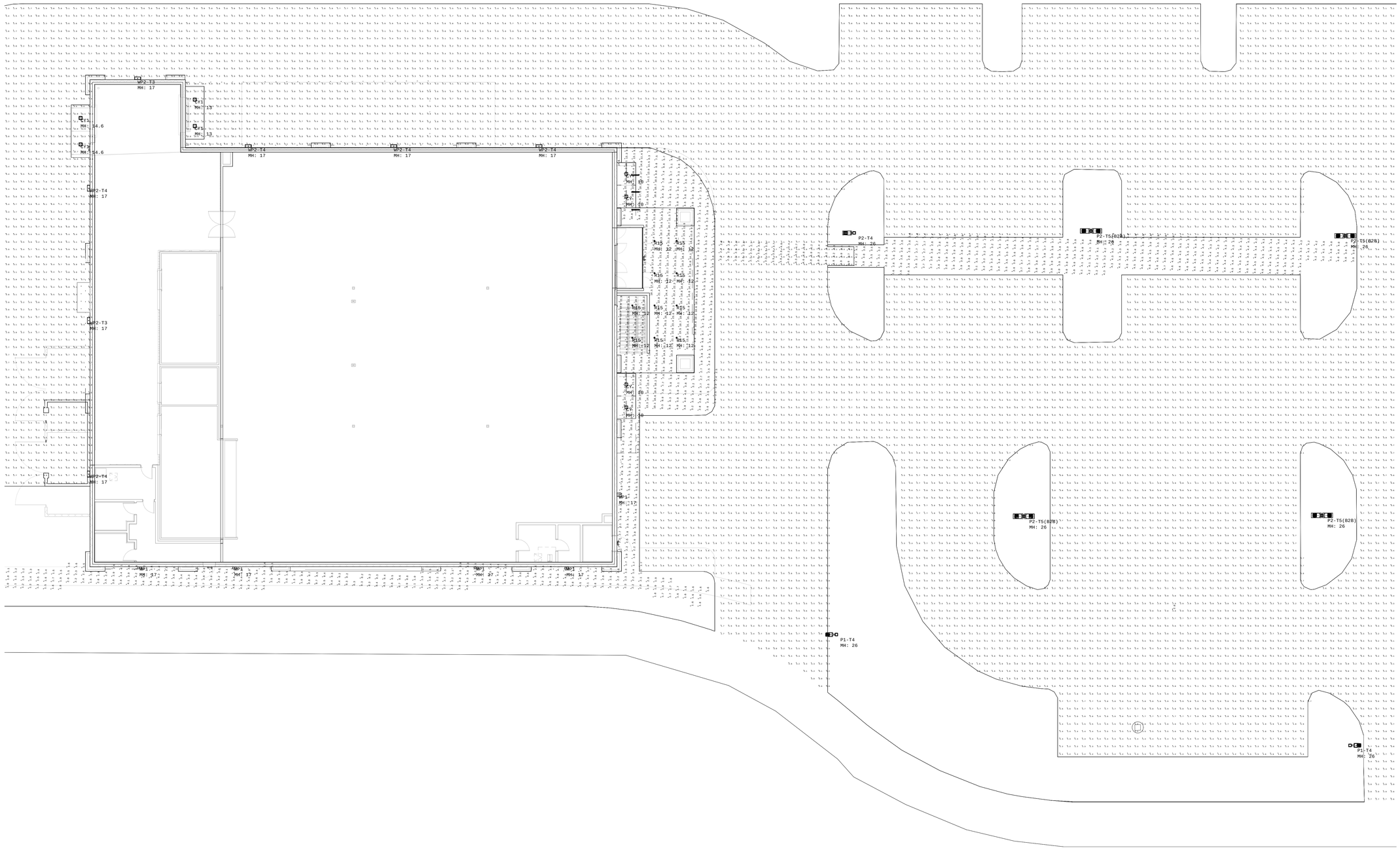
LPD AREA SUMMARY			
LABEL	AREA	TOTAL WATTS	LPD
Central Point, OR LPD	165774	2028.75	0.012

CALCULATION SUMMARY							
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
LOADING RAMP	Illuminance	Fc	6.58	16.8	0.0	N.A.	N.A.
MAIN ENTRANCE CANOPY	Illuminance	Fc	16.89	25.9	6.9	2.45	3.75
PARKING LOT	Illuminance	Fc	2.84	5.4	0.0	N.A.	N.A.



1 OVERALL ELECTRICAL SITE PLAN
E1-13 SCALE: 3/32" = 1'-0"

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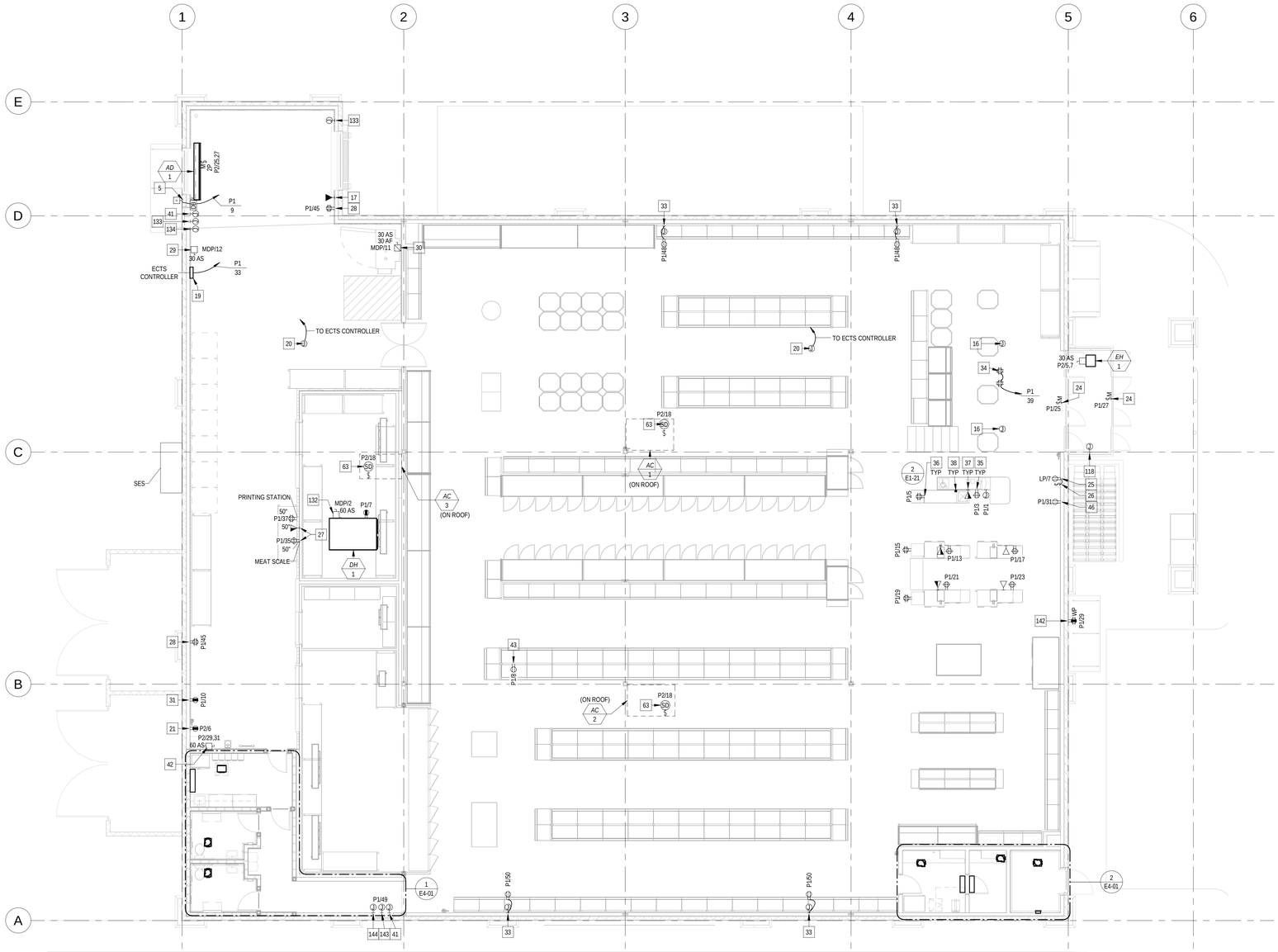
PROJECT NUMBER
24-CA140-01

SHEET TITLE

EXTERIOR LIGHTING PHOTOMETRICS

SHEET NUMBER

E1-13



1 POWER PLAN
E1-21 SCALE: 1/8" = 1'-0"

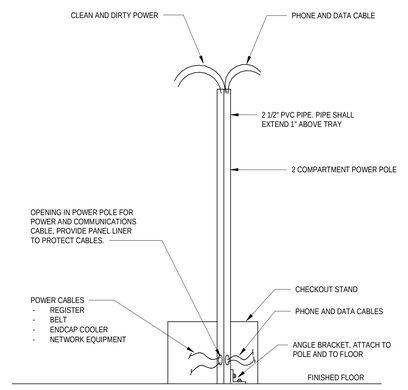
POWER GENERAL NOTES

1. INSTALLATION OF CONDUITS AND WIRES SHALL BE CONCEALED ABOVE THE CEILING AND BEHIND WALLS. WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FOR EXPOSED LOCATIONS PRIOR TO ROUGH IN. USE WIREMOLD IN EXPOSED AREAS.
2. PROVIDE APPROVED HANDLE TIE FOR ALL MULTIWIRE BRANCH CIRCUITS AS REQUIRED PER NEC ART. 210.4(B).
3. THE BOTTOM OF THE RECEPTACLE OUTLET BOXES SHALL NOT BE LESS THAN FIFTEEN INCHES ABOVE FINISHED FLOOR AND THE TOP OF THE OUTLET BOXES FOR CONTROLS AND SWITCHES SHALL NOT BE MORE THAN FORTY-EIGHT INCHES ABOVE THE FINISHED FLOOR.
4. PLEASE REFER TO ARCHITECTURAL PLANS FOR POWER POLE CABLE ROUTING TO ELECTRICAL PANEL AND SERVER.
5. G.C. TO COORDINATE AND VERIFY LOCATIONS OF ALL OFFICES EQUIPMENT WITH GROCERY OUTLET PROJECT MANAGER PRIOR TO INSTALLATION.
6. REFER TO ROOM FINISH SCHEDULE FOR FINISHES AT WALLS, FLOORS AND CEILINGS.
7. ALL DEVICE PLUGS AND CONVENIENCE OUTLETS SHALL BE AT ACCESSIBLE HEIGHTS.
8. ALL CONDUIT TO BE 1" UNLESS NOTED OTHERWISE. PROVIDE CHAFING PROTECTION AT ALL EXPOSED CONDUIT ENDS, WITHOUT J-BOXES AND ALSO PROVIDE PULL-STRINGS FOR ALL J-BOXES 5. ALL J-BOXES/ JACKS TO BE LOCATED UNDER THE COUNTERS UNLESS NOTED OTHERWISE.
9. 24"X24" PANEL CEILING ACCESS WITH PLYWOOD BETWEEN OFFICES TO ALLOW PERSON TO WALK/CRAWL BETWEEN OFFICES.
10. IF A SOLID WALL (IE CONCRETE MASONRY OCCURS BETWEEN THE CHECK STANDS AND OFFICES, CONTRACTOR TO PROVIDE AN OPENING AS REQUIRED FOR WIRING / CABLING ACCESS.
11. G.C. TO PROVIDE VIEW LITES IN BOTH OFFICE DOORS. SEE DOOR SCHEDULE ON ARCHITECTURAL PLANS.
12. CONTRACTOR TO SEAL ALL CONDUITS AND PENETRATIONS AT COOLER BOXES AND EQUIPMENT ROOM.

ELECTRICAL CONTRACTOR SHALL FULLY REVIEW REFRIGERATION AND H.V.A.C DRAWINGS AND SHALL INCLUDE IN BID ALL WORK THAT IS TO BE COMPLETED BY ELECTRICAL CONTRACTOR, INCLUDING ALL SWITCHES, CONDUITS, BELDEN CABLES, CONTROL WIRES, POWER WIRES ETC, AS CALLED OUT ON REFRIGERATION DRAWINGS FOR A COMPLETE AND OPERABLE REFRIGERATION SYSTEM. NO CHANGE ORDER SHALL BE ALLOWED.

SHEET KEYNOTES

#	KEYNOTE
5	DOORBELL WIRED TO PUSHBUTTON LOCATED AT THE RECEIVING AREA MAN DOOR. DOOR BELL (TRINE ACCESS TECHNOLOGY - 201 CHIME KIT OR ALTERNATE EQUAL) TRANSFORMER AND PUSHBUTTON PROVIDED AND WIRED BY E.C. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH GOI PROJECT MANAGER.
16	E.C. TO PROVIDE 1/2" CONDUIT PATHWAY ALONG THE CEILING FROM SALES FLOOR INTO THE EXTERIOR FRONT DOOR FRAME AREA FOR SECURITY ALARM WIRING FOR DOOR MANUFACTURER BUILT-IN DOOR CONTACTS. SECURITY VENDOR TO MAKE FINAL CONNECTIONS OF SECURITY ALARM WIRING TO DOOR CONTACTS.
17	1" EMT FROM PHONE RACK TO THE PHONE OUTLET. TERMINATE WITH J-BOX @ 44" AFF, STUB CONDUIT TO ABOVE CEILING.
19	E.C. TO INSTALL RESISTIVE TEMPERATURE DETECTOR (RTD) ASSOCIATED WITH ECTS CONTROLLER TO ROOF EXTERIOR. MOUNT RTD PER MANUFACTURER'S RECOMMENDATIONS. CONFIRM FINAL LOCATION OF ECTS CONTROLLER FOR HEAT TRACE WITH GO REPRESENTATIVE PRIOR TO FINAL INSTALLATION.
20	CEILING MOUNTED JUNCTION BOX FOR HEAT TRACE CONNECTION. PROVIDE 2C-12AWG FROM ECTS CONTROLLER TO EACH HEAT TRACE LOCATION. REFER TO PLUMBING PLANS FOR MORE DETAILS.
21	120V, 20A CIRCUIT FOR RECIRCULATION PUMP. VERIFY LOCATION PRIOR TO INSTALLATION.
24	NEW JUNCTION BOX WITH TOGGLE SWITCH FOR CONNECTION TO AUTO DOOR. E.C. TO VERIFY FUNCTIONALITY AND CONNECTIONS. REFER TO PANEL SCHEDULE FOR CIRCUIT NUMBER INFO.
25	RECEPTACLE FOR STORE OPEN SIGN. VERIFY MOUNTING HEIGHT AND LOCATION WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN.
26	NEW INDOOR JUNCTION BOX WITH TOGGLE SWITCH FOR CONNECTION OF SIGNAGE. E.C. TO VERIFY FUNCTIONALITY, CONNECTIONS AND EXACT LOCATION. REFER TO PANEL SCHEDULE FOR CIRCUIT NUMBER INFO.
27	PROVIDE ISOLATED GROUND RECEPTACLE WITH ADDITIONAL ISOLATED GROUND WIRE AND LOW VOLTAGE TEL/DATA OUTLET FOR MEAT SCALE. MOUNT DEVICES AT 42" A.F.F. AND CENTER RECEPTACLES ON SHELF AT 24" APART. PROVIDE MINIMUM 3/4"C FOR POWER. PROVIDE RING AND STRING FOR DATA OUTLET. VERIFY LOCATION WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN.
28	RECEPTACLES MOUNTED AT +4'-0" AFF. SURFACE MOUNT WITH ALL METAL J-BOX AND COVER PLATE, TYPICAL.
29	PROVIDE A DISCONNECT SWITCH FOR CONNECTION OF FORKLIFT CHARGER. VERIFY OUTLET, VOLTAGE, AMPERAGE REQUIREMENTS AND LOCATION WITH STORE OWNER PRIOR TO ROUGH-IN. EQUIPMENT BY OWNER. DISCONNECT, CONDUIT, WIRING AND CONNECTION BY E.C.
30	PROVIDE DISCONNECT SWITCH FOR CONNECTION OF BALER. VERIFY RECEPTACLE, VOLTAGE, AMPERAGE REQUIREMENTS, AND LOCATION WITH STORE OWNER PRIOR TO ROUGH-IN. EQUIPMENT BY OWNER. DISCONNECT, CONDUIT, WIRING AND CONNECTION BY E.C.
31	20A, 120V RECEPTACLE FOR CONNECTION OF FLOOR SCRUBBER WITH BUILT-IN DISCONNECT SWITCH. VERIFY OUTLET, VOLTAGE, AMPERAGE REQUIREMENTS AND LOCATION WITH STORE OWNER PRIOR TO ROUGH-IN. EQUIPMENT BY OWNER. CONDUIT, WIRING AND CONNECTION BY E.C.
33	CONVENIENCE WALL MOUNT OUTLET WITH METAL COVER PLATE. MOUNT J-BOX AT +86" & PROVIDE FLEX CONDUIT WITH WALL MOUNTED CLAMPS TO RECEPTACLE IN RACK TOE-KICK. VERIFY FINAL INSTALLATION LOCATION WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN.
34	RECEPTACLE IN CEILING FOR SECURITY AND PUBLIC VIEWING MONITORS. COORDINATE LOCATIONS WITH QUALITY SOLUTIONS PRIOR TO ROUGH-IN.
35	PROVIDE ISOLATED GROUND RECEPTACLE WITH ADDITIONAL ISOLATED GROUND WIRE FOR CHECK STAND EQUIPMENT POWER. PROVIDE SEPARATE CIRCUIT AND JUNCTION BOX FOR CHECK STAND BELT POWER.
36	PROVIDE QUAD RECEPTACLE FOR CHECK STAND MERCHANDISING EQUIPMENT.
37	PROVIDE POWER AND DATA OUTLETS CONNECTIONS AND POWER POLE PER GOI CHECK STAND REQUIREMENTS.
38	POWER AND DATA WIRING ROUTED SEPARATELY THROUGH TWO-COMPARTMENT POWER POLE AT EACH CHECK STAND. COORDINATE EXACT POWER POLE LOCATION AND REQUIREMENTS WITH GOI PROJECT MANAGER AND FIXTURE INSTALLER.
41	E.C. TO PROVIDE 1/2"C TO J-GANG J-BOX 2' FROM TOP DOOR LATCH SIDE (OPPOSITE OF DOOR HINGE) TO CEILING ON ALL EXTERIOR MAN DOORS. E.C. SHALL CONFIRM EXACT LOCATIONS OF EMERGENCY EXIT DOORS AND ALARM SYSTEM CONTROL PANEL WITH GO CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
42	PROVIDE A DISCONNECT SWITCH FOR CONNECTION OF WATER HEATER. EQUIPMENT BY OWNER. DISCONNECT, CONDUIT, WIRING, AND CONNECTION BY E.C. VERIFY LOCATION PRIOR TO INSTALLATION.
43	RECEPTACLE FOR HOLLIS ST. COORDINATE FINAL LOCATION OF EQUIPMENT WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN.
46	RECEPTACLE FOR SMART CART CHARGER. VERIFY MOUNTING HEIGHT AND LOCATION WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN.
63	ROOFTOP UNIT DUCT SMOKE DETECTOR PROVIDED BY MECHANICAL CONTRACTOR, WIRING BY EC. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS FOR MORE INFORMATION.
118	PROVIDE JUNCTION BOX FOR SECURITY KEYPAD MOUNTED AT 48" A.F.F. COORDINATE FINAL LOCATION OF KEYPAD WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN.
132	E.C. TO FURNISH POWER CONNECTION TO INTEGRAL NON-FUSED DISCONNECT SWITCH AND MAKE FINAL CONNECTIONS. REFER TO MECHANICAL SCHEDULES FOR LISTED MOCP FURNISHED BY EQUIPMENT MANUFACTURER. VERIFY LOCATION.
133	DELAYED EGRESS CONTROL BOX. POWER SUPPLY AND ALL REQUIRED CONNECTIONS TO THE DELAYED EGRESS DOOR SHALL BE PROVIDED AND INSTALLED BY SPECIALTY INSTALLER.
134	E.C. TO PROVIDE (3)1/2"C FOR FA, POWER SUPPLY & POWER TRANSFER WIRING FROM DELAYED EGRESS CONTROL BOX, LOCATED 2' FROM TOP DOOR LATCH SIDE TO THE CEILING ON ALL EXTERIOR MAN DOORS. E.C. SHALL CONFIRM EXACT LOCATIONS OF EMERGENCY EXIT DOORS WITH GO CONSTRUCTION MANAGER PRIOR TO INSTALLATION. REFER TO THE INSTALLATION MANUAL FOR THE EXACT CONNECTIONS AND REQUIREMENTS.
142	NOT USED_E.C. SHALL PROVIDE 2#12+1#12G IN 3/4"C FOR 208V/1PH EVAPORATOR COIL FAN MOTORS AND 208V/1PH COIL HEATERS FROM EVAPORATOR CONTROLLER PANEL TO EVAPORATOR. REFER TO REFRIGERATION DRAWINGS TO VERIFY ALL POWER AND CONTROL REQUIREMENTS.
143	NOT USED_2C-18 AWG SHIELDED CABLE IN CONDUIT BY E.C. TO RACK PANEL.
144	NOT USED_3C-18 AWG SHIELDED CABLE IN CONDUIT BY E.C. TO RACK PANEL.



2 POWER POLE DETAIL
E1-21 NOT TO SCALE

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QUALITY CONTROL
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PROJECT NAME

CENTRAL POINT, OR

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24 - CA140 - 01

SHEET TITLE
POWER PLAN

SHEET NUMBER
E1-21

Last Modified: 2/24/2025 1:58:23 PM Drawing Name:Autodesk Docs://Grocery Outlet - Central Point, OR (0060) TI\GO_Central Point, OR_MEP&_R22.rvt

ELECTRICAL CONTRACTOR SHALL FULLY REVIEW REFRIGERATION AND H.V.A.C DRAWINGS AND SHALL INCLUDE IN BID ALL WORK THAT IS TO BE COMPLETED BY ELECTRICAL CONTRACTOR, INCLUDING ALL SWITCHES, CONDUITS, BELDEN CABLES, CONTROL WIRES, POWER WIRES ETC, AS CALLED OUT ON REFRIGERATION DRAWINGS FOR A COMPLETE AND OPERABLE REFRIGERATION SYSTEM. NO CHANGE ORDER SHALL BE ALLOWED.

REFRIGERATION GENERAL NOTES

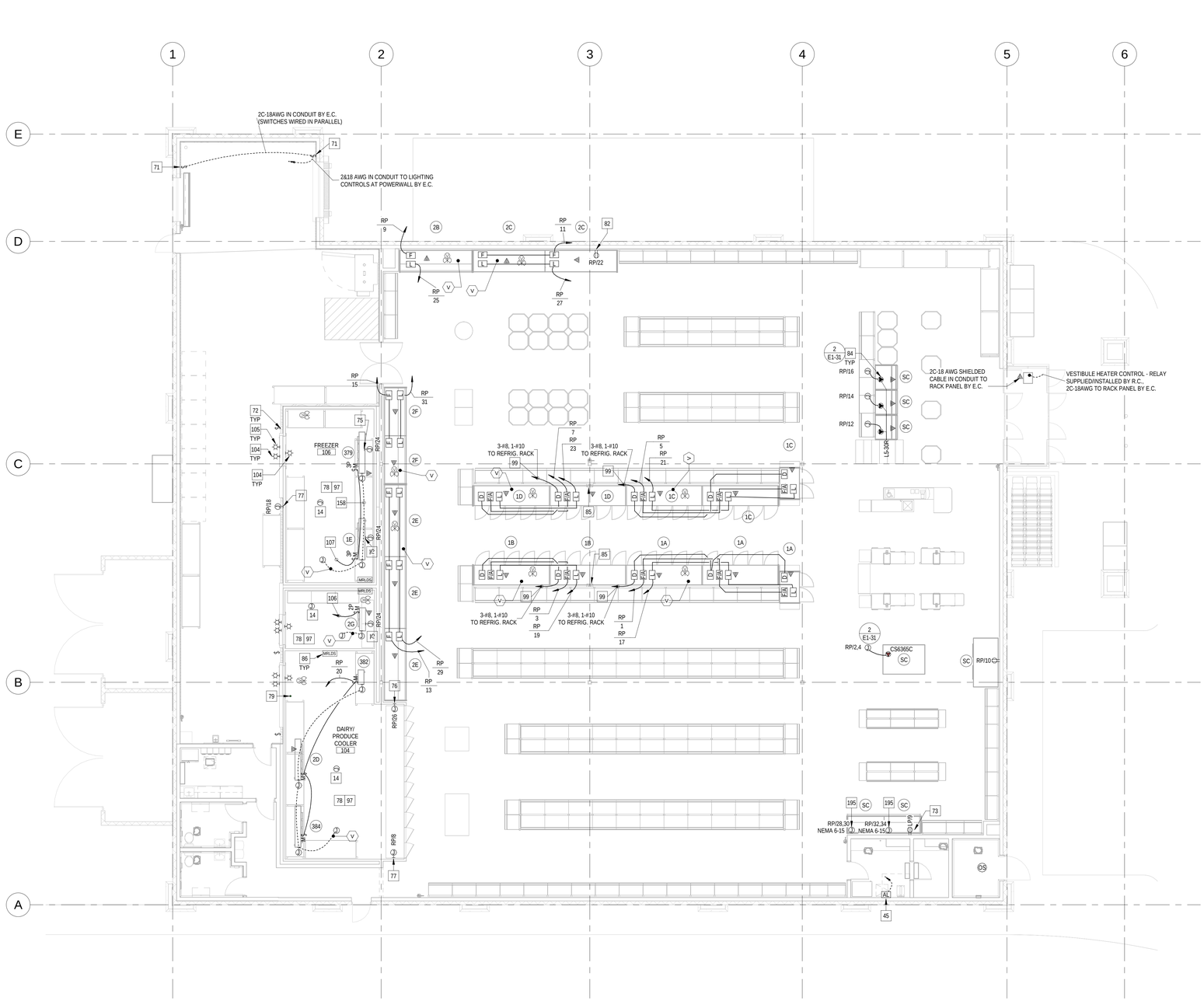
1. INSTALLATION OF CONDUITS AND WIRES SHALL BE CONCEALED ABOVE THE CEILING, BEHIND WALLS, AND SHALL NOT BE UNDER THE SLAB. WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FOR EXPOSED LOCATIONS PRIOR TO ROUGH IN. USE WIREMOLD IN EXPOSED AREAS.
2. CONTRACTOR TO SEAL ALL CONDUITS AND PENETRATIONS AT COOLER BOXES AND EQUIPMENT ROOM.
3. PROVIDE APPROVED HANDLE TIE FOR ALL MULTIWIRE BRANCH CIRCUITS AS REQUIRED PER NEC ART. 210.4(B).
4. THE BOTTOM OF THE RECEPTACLE OUTLET BOXES SHALL NOT BE LESS THAN FIFTEEN INCHES ABOVE FINISHED FLOOR AND THE TOP OF THE OUTLET BOXES FOR CONTROLS AND SWITCHES SHALL NOT BE MORE THAN FORTY-EIGHT INCHES ABOVE THE FINISHED FLOOR.

SYMBOL LEGEND

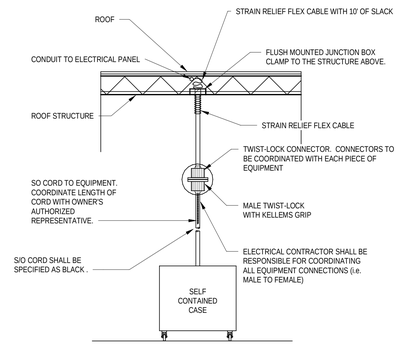
- (#) • REFRIGERATION SYSTEM NUMBER
- (C) • CONTROL WIRING TO THE RACK CONTROL PANEL FROM EITHER CASES OR COILS. ALL WIRING IS TO BE PER THE DEFROST WIRING SCHEMES ON REFRIGERATION SHEETS. PULL 14 AWG CONTROL WIRES FOR EACH INSTANCE OF THIS NOTE BEING SHOWN. PROVIDED AND INSTALLED BY E.C.
- (V) • LOW VOLTAGE CONTROL WIRING TO THE ESR BOARD IN THE RACK CONTROL PANEL FROM EITHER CASES OR COILS. E.C. TO SUPPLY AND INSTALL 4C-14 AWG CONTROL WIRES AND CONDUIT.
- △ • FIXTURE TEMPERATURE SENSOR. RUN ENERGY MANAGEMENT CABLE IN SEPARATE CONDUIT (FOR LOW VOLTAGE TEMPERATURE SENSOR) FROM EACH SENSOR TO RACK PANEL, PROVIDED, INSTALLED BY E.C. CABLE TYPE 2C-18 AWG SHIELDED CABLE. SEE INSTALLATION DETAIL & COORDINATE W/R.C. FOR EXACT LOCATION.
- SV • SOLENOID VALVE, PROVIDED BY RACK MANUFACTURER, INSTALLED BY R.C., WIRED BY E.C.
- EEPR • EEPR VALVE, PROVIDED BY RACK MANUFACTURER, INSTALLED BY R.C., WIRED BY E.C.
- PC • PHOTOCELL ON THE ROOF (FACING NORTH) WITH 3C-18 AWG SHIELDED CABLE & CONDUIT TO RACK PANEL BY E.C.
- IPC • INDOOR PHOTOCELL, MOUNTED BY R.C., SUPPORT ROD BY G.C., WIRED BY E.C.
- RH • OUTSIDE HUMIDITY SENSOR, 3C-18 AWG SHIELDED CABLE TO CONDENSER PANEL BY E.C.
- $ • COOLER/FREEZER DOOR SWITCH. PROVIDED BY RACK MANUFACTURER, INSTALLED BY R.C., WIRED BY E.C. (SWITCH CLOSED WHEN DOOR IS CLOSED)
- ● • ELECTRICAL CONDUIT STUB-UP LOCATION, PROVIDED, INSTALLED AND WIRED BY E.C.
- MRLDS • MODULAR LEAK DETECTION SENSOR. INSTALLED BY R.C., WIRED BY E.C.
- CC • REFRIGERATION CASE CONTROLLER
- D • REFRIGERATED CASE DEFROST POWER CONNECTION
- F-A • REFRIGERATED CASE FANS/ANTI-SWEAT POWER CONNECTION
- F • REFRIGERATED CASE FANS POWER CONNECTION
- L • REFRIGERATED CASE LIGHTING POWER CONNECTION

SHEET KEYNOTES

#	KEYNOTE
14	GENERATOR QUICK-CONNECT BOX WITH CAMLOCK CONNECTIONS IN NEMA 3R ENCLOSURE PROVIDED BY CD CONTROLS, E.C. TO COORDINATE EXACT LOCATION WITH OWNER/TENANT. REFER TO SINGLE LINE DIAGRAM ON SHEET E6-01 FOR MORE INFORMATION.
45	GENERAL REFRIGERATION ALARM (LIGHT AND SIREN WITH SILENCE) PROVIDED BY RM, WIRED BY EC. PROVIDE 5C-18 AWG CABLE FROM ALARM TO COMPRESSOR RACK PANEL. VERIFY FINAL LOCATION WITH CUSTOMER.
71	MAGNETIC DOOR SWITCH SERVING ROLL UP DOOR. USE BELDEN 8761 CABLE TO LIGHTING CONTROL PANEL IN POWERWALL. DOOR SWITCH CLOSED WHEN DOOR CLOSED. PROVIDED AND INSTALLED BY R.C., WIRED BY E.C.
72	FREEZER/COOLER DOOR SWITCH PROVIDED AND INSTALLED BY R.C., WIRED BY E.C. BELDEN 8761 CABLE TO REFRIGERATION RACK. REFER TO REFRIGERATION DRAWINGS FOR WIRING REQUIREMENTS AND PROVIDE ALL WORK FOR A COMPLETE AND OPERABLE SYSTEM.
73	PROVIDE AN OUTLET FOR LIGHTED CANOPY SIGN ON TOP OF CASE. COORDINATE FINAL LOCATION WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN
75	PROVIDE A J-BOX FOR CONNECTION OF DRAIN LINE HEATER.
76	PROVIDE A J-BOX FOR CONNECTION OF REFRIGERATION BOX DOORS LIGHTS. LIGHTS PROVIDED BY DOOR MANUFACTURER. REFER TO REFRIGERATION SHEETS FOR MORE INFORMATION.
77	POWER CONNECTION FOR FREEZER & COOLER DOOR HEATER. REFER TO REFRIGERATION DRAWINGS FOR MORE INFORMATION. PROVIDE ALL CONNECTIONS AS REQUIRED.
78	NOT USED, MOTORIZED VOLUME DAMPER, SUPPLIED AND INSTALLED BY H.V.A.C., WIRED BY E.C., CONTROLS BY REFRIGERATION EMS. PROVIDE ALL WORK AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. EXACT LOCATION TO BE DETERMINED IN FIELD.
79	1/2"C FROM INSIDE THE DAIRY COOLER (CENTERED OVER DOOR, AND 1" BACK) TO STRUCTURE ABOVE. WITH A 90 DEGREE SWEEP AT TOP, TERMINATING AT NEAREST STRUCTURAL MEMBER. SECURE CONDUIT AT BOTH ENDS. THIS MUST BE SEPARATE FROM ANY HIGH VOLTAGE CONDUIT.
82	RECEPTACLE FOR PRODUCE MISTING SYSTEM LOCATED BEHIND PRODUCE CASE SURFACE MOUNTED ON WALL. COORDINATE FINAL INSTALLATION LOCATION WITH GOI DIRECTOR OF REFRIGERATION PRIOR TO ROUGH-IN.
84	CORD DROP RECEPTACLE, TWISTLOCK (NEMA TYPE AS INDICATED ON PLAN), 120V, FROM CEILING MOUNTED JUNCTION BOX FOR REFRIGERATION CASE. POWER CORDS SHALL REACH THE FLOOR +10'-0" OF SLACK. VERIFY FINAL LOCATION WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN.
85	RISER FOR ELECTRICAL CONDUITS. COORDINATE WITH REFRIGERATION AND ARCHITECTURAL PLANS. FIELD VERIFY FINAL LOCATION WITH GOI REPRESENTATIVE.
86	MODULAR REFRIGERANT LEAK DETECTION SENSOR (MRLDS) FOR COOLERS/FREEZERS. MOUNT BETWEEN 12"-18" AFF. FIELD VERIFY LOCATION. E.C. TO PROVIDE 2 SETS OF WIRES (2-CONDUCTOR, 18 AWG SHIELDED AND 2-CONDUCTOR, AWG, NON SHIELDED) FROM REFRIGERATION RACK PANEL TO MRLDS LEAK SENSOR AT WALK-IN BOXES.
97	E.C. TO COORDINATE WORK WITH REFRIGERATION CONTRACTOR WHILE INSTALLING NEW ELECTRICAL EQUIPMENT PRIOR TO CONSTRUCTION TO AVOID CONDUIT / REFRIGERATION LINE CONFLICT. KEEP REQUIRED CLEARANCES.
99	E.C. SHALL PROVIDE 2#12+1#12/G IN 3/4"C FOR 120V/1PH EVAPORATOR COIL FAN MOTORS FROM EVAPORATOR CONTROLLER PANEL TO EVAPORATOR. REFER TO REFRIGERATION DRAWINGS TO VERIFY ALL POWER AND CONTROL REQUIREMENTS.
104	PROVIDE 2C-18 AWG TO BOARD IN RACK PANEL FOR REFRIGERANT LEAK ALARM (BLUE). REFER TO REFRIGERATION SHEETS FOR MORE INFORMATION.
105	PROVIDE 2C-18 AWG TO BOARD IN RACK PANEL FOR DOOR OPEN ALARM (AMBER). REFER TO REFRIGERATION SHEETS FOR MORE INFORMATION.
106	E.C. TO PROVIDE 3/4"C - 3#10+1#10G POWERED FROM RACK CONTROL PANEL ON REFRIGERATION RACK.
107	E.C. SHALL PROVIDE 3#8+1#10G IN 1"C FOR 208V/3PH DEFROST POWER AND PROVIDE 2#12+1#12G IN 3/4"C FOR 208V/1PH COIL FAN POWER TO RACK PANEL IN EQUIPMENT PLATFORM. REFER TO REFRIGERATION DRAWINGS TO VERIFY ALL POWER AND CONTROL REQUIREMENTS AND PROVIDE ALL REQUIRED WORK FOR A COMPLETE AND OPERATIONAL SYSTEM.
158	SEPARATE LOW VOLTAGE CONTROL CONDUIT, WIRED BY E.C., TERMINATION BY R.C. COORDINATE EXACT SIZE AND NUMBER OF WIRES AND CONDUIT WITH R.C."
195	E.C TO PROVIDE NEMA 6-15 PLUG AND WIRING FROM ASSOCIATED J-BOX TO SELF CONTAINED BEER CASE.



1 E1-31 REFRIGERATION POWER PLAN
SCALE: 1/8" = 1'-0"



2 E1-31 DROP CORD DETAIL
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QUALITY CONTROL
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DRAWN BY
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PROJECT NAME

CENTRAL POINT, OR

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE
REFRIGERATION POWER PLAN

SHEET NUMBER
E1-31

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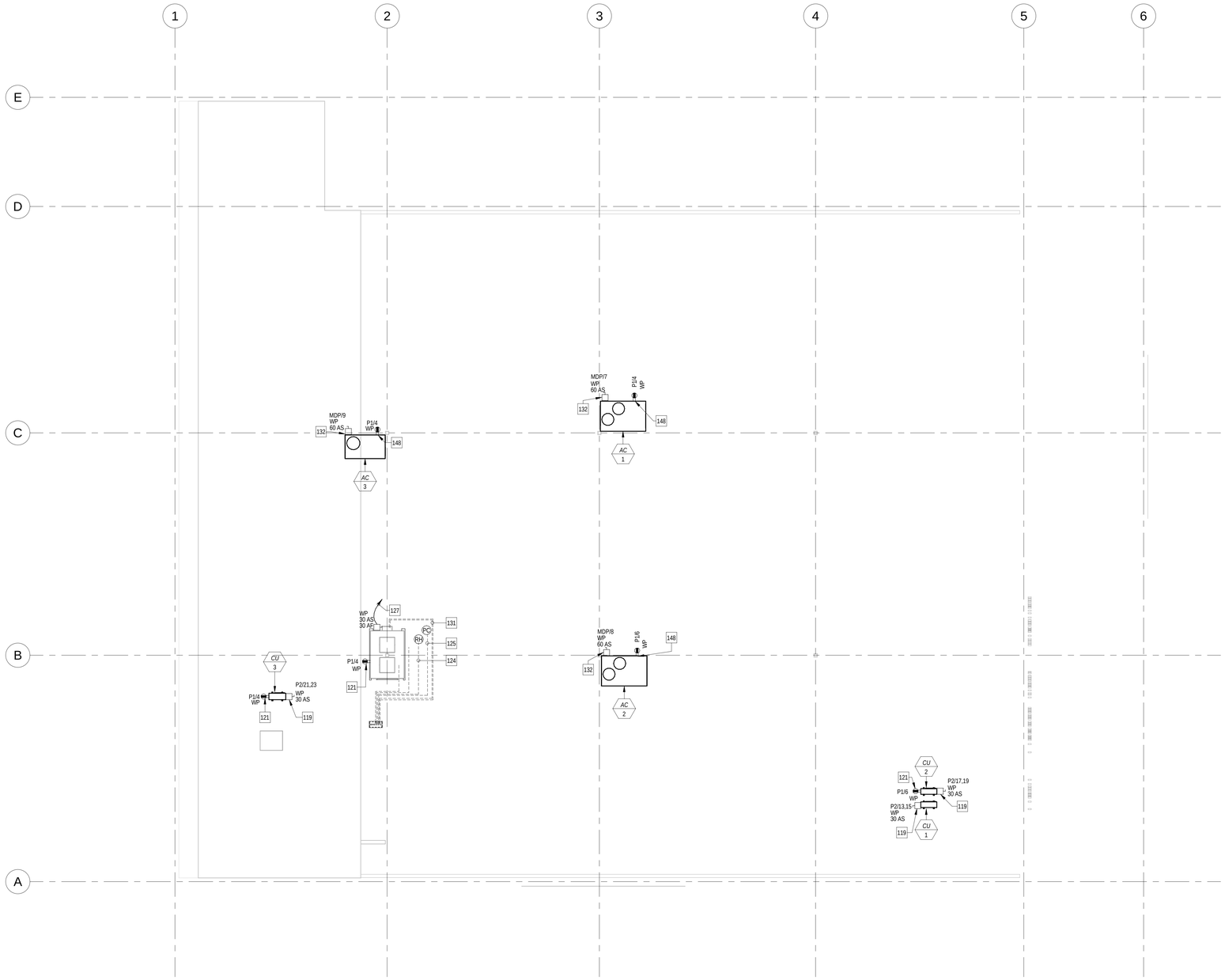

1 E1-51 ROOF POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. ALL EXPOSED OUTDOOR CONDUITS SHALL BE PROVIDED WITH RIGID GALVANIZED STEEL CONDUIT. PROVIDE THE REQUIRED PULL BOXES AS NECESSARY TO FACILITATE THE ELECTRICAL INSTALLATION.
2. ALL CONDUCTORS TO BE COPPER, TYPE THWN/THHN INSULATION RATED FOR 75°C. WATERPROOFING AND FIRE STOP SHALL BE USED ON ALL PENETRATIONS THROUGH FIRE RATED WALLS.
3. CONTRACTOR TO PROVIDE ALL NECESSARY CONDUIT AND WIRING FOR CONTROL OF ALL HVAC & REFRIGERATION EQUIPMENT. COORDINATE ALL CONTROL WIRING WITH MECHANICAL & REFRIGERATION CONTRACTORS.

ELECTRICAL CONTRACTOR SHALL FULLY REVIEW REFRIGERATION AND H.V.A.C DRAWINGS AND SHALL INCLUDE IN BID ALL WORK THAT IS TO BE COMPLETED BY ELECTRICAL CONTRACTOR, INCLUDING ALL SWITCHES, CONDUITS, BELDEN CABLES, CONTROL WIRES, POWER WIRES ETC, AS CALLED OUT ON REFRIGERATION DRAWINGS FOR A COMPLETE AND OPERABLE REFRIGERATION SYSTEM. NO CHANGE ORDER SHALL BE ALLOWED.

SYMBOL LEGEND

(RH) - OUTSIDE HUMIDITY SENSOR, 3C-18 AWG SHIELDED CABLE TO CONDENSER PANEL BY E.C..

(PC) - PHOTOCELL ON THE ROOF (FACING NORTH) WITH 3C-18 AWG SHIELDED CABLE & CONDUIT TO RACK PANEL BY E.C..

SHEET KEYNOTES

#	KEYNOTE
119	E.C. TO PROVIDE UNIT MOUNTED NON-FUSED WEATHERPROOF DISCONNECT SWITCH. REFER TO MECHANICAL SCHEDULES FOR MORE INFORMATION. VERIFY LOCATION.
121	20A, 120V GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE. OUTLET BOX HOOD SHALL BE LISTED AND IDENTIFIED AS "EXTRA-DUTY" PER NEC 406.9(B)(1).
124	POST PAD TEMP SENSOR INSTALLED BY RC. E.C. TO WIRE AND PROVIDE 2C-18 AWG SHIELDED TO RACK PANEL.
125	POST PAD TEMP SENSOR INSTALLED BY RC. E.C. TO WIRE AND PROVIDE 2C-18 AWG SHIELDED TO CONDENSER PANEL.
127	208V/1PH CONDENSER CONTROL PANEL TO BE POWERED FROM REFRIGERATION RACK. E.C. TO PROVIDE AND INSTALL 2#10+1#10G IN 3/4"C FROM RACK TO CONDENSER CONTROL PANEL.
131	4" THICK HOUSEKEEPING PAD FOR POWERWALL. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.
132	E.C. TO FURNISH POWER CONNECTION TO INTEGRAL NON-FUSED DISCONNECT SWITCH AND MAKE FINAL CONNECTIONS. REFER TO MECHANICAL SCHEDULES FOR LISTED MOCP FURNISHED BY EQUIPMENT MANUFACTURER. VERIFY LOCATION.
148	E.C. TO FURNISH POWER CONNECTION TO 120V INTEGRAL RECEPTACLE IN UNIT. MAKE FINAL CONNECTIONS.

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DEC. 31, 2026
REZA NOROUZI

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PROJECT MANAGER
GH
QUALITY CONTROL
RN
DRAWN BY
AE

PROJECT NAME

CENTRAL POINT, OR

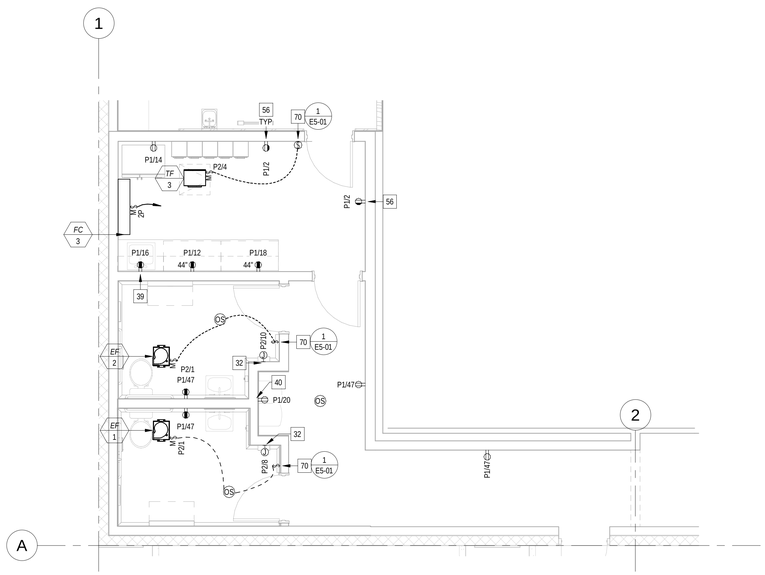
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

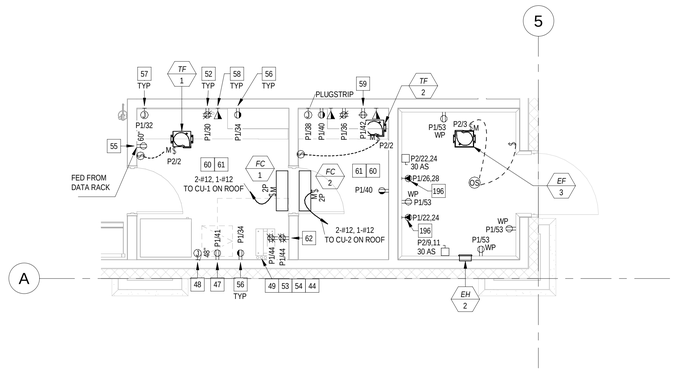
SHEET TITLE
ROOF POWER PLAN

SHEET NUMBER
E1-51

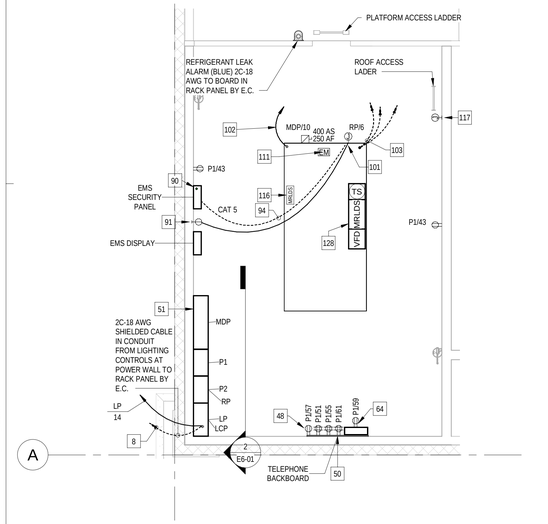
Last Modified:2/24/2025 1:18:23 PM Drawing Name:Autodesk Docs://Grocery Outlet - Central Point, OR (0000) TI\GO_Central Point, OR_MEPR_R23.rvt



1 E4-01 ENLARGED POWER PLAN - BREAK ROOM, REST ROOM
SCALE: 1/4" = 1'-0"



2 E4-01 ENLARGED POWER PLAN - OFFICES
SCALE: 1/4" = 1'-0"



3 E4-01 ENLARGED POWER PLAN - EQUIPMENT PLATFORM
SCALE: 1/4" = 1'-0"

POWER GENERAL NOTES

1. INSTALLATION OF CONDUITS AND WIRES SHALL BE CONCEALED ABOVE THE CEILING AND BEHIND WALLS. WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FOR EXPOSED LOCATIONS PRIOR TO ROUGH IN. USE WIREMOLD IN EXPOSED AREAS.
2. PROVIDE APPROVED HANDLE TIE FOR ALL MULTIWIRE BRANCH CIRCUITS AS REQUIRED PER NEC ART. 210.4(B).
3. THE BOTTOM OF THE RECEPTACLE OUTLET BOXES SHALL NOT BE LESS THAN FIFTEEN INCHES ABOVE FINISHED FLOOR AND THE TOP OF THE OUTLET BOXES FOR CONTROLS AND SWITCHES SHALL NOT BE MORE THAN FORTY-EIGHT INCHES ABOVE THE FINISHED FLOOR.
4. PLEASE REFER TO ARCHITECTURAL PLANS FOR POWER POLE CABLE ROUTING TO ELECTRICAL PANEL AND SERVER.
5. DEVICES AND EQUIPMENT DESIGNATED WITH "(E)" ARE FROM SHELL DRAWINGS. REFER TO SHELL DRAWINGS FOR MORE INFORMATION.
6. G.C. TO COORDINATE AND VERIFY LOCATIONS OF ALL OFFICES EQUIPMENT WITH GROCERY OUTLET PROJECT MANAGER PRIOR TO INSTALLATION.
7. REFER TO ROOM FINISH SCHEDULE FOR FINISHES AT WALLS, FLOORS AND CEILINGS.
8. ALL DEVICE PLUGS AND CONVENIENCE OUTLETS SHALL BE AT ACCESSIBLE HEIGHTS.
9. ALL CONDUIT TO BE 1" UNLESS NOTED OTHERWISE. PROVIDE CHAFING PROTECTION AT ALL EXPOSED CONDUIT ENDS WITHOUT J-BOXES AND ALSO PROVIDE PULL-STRINGS FOR ALL J-BOXES 5. ALL J-BOXES/ JACKS TO BE LOCATED UNDER THE COUNTERS UNLESS NOTED OTHERWISE.
10. 24"X24" PANEL CEILING ACCESS WITH PLYWOOD BETWEEN OFFICES TO ALLOW PERSON TO WALK/CRAWL BETWEEN OFFICES.
11. IF A SOLID WALL (IE CONCRETE MASONRY OCCURS BETWEEN THE CHECK STANDS AND OFFICES, CONTRACTOR TO PROVIDE AN OPENING AS REQUIRED FOR WIRING / CABLING ACCESS.
12. G.C. TO PROVIDE VIEW LITES IN BOTH OFFICE DOORS. SEE DOOR SCHEDULE ON ARCHITECTURAL PLANS.
13. CONTRACTOR TO SEAL ALL CONDUITS AND PENETRATIONS AT COOLER BOXES AND EQUIPMENT ROOM.

ELECTRICAL CONTRACTOR SHALL FULLY REVIEW REFRIGERATION AND H.V.A.C DRAWINGS AND SHALL INCLUDE IN BID ALL WORK THAT IS TO BE COMPLETED BY ELECTRICAL CONTRACTOR, INCLUDING ALL SWITCHES, CONDUITS, BELDEN CABLES, CONTROL WIRES, POWER WIRES ETC, AS CALLED OUT ON REFRIGERATION DRAWINGS FOR A COMPLETE AND OPERABLE REFRIGERATION SYSTEM. NO CHANGE ORDER SHALL BE ALLOWED.

SHEET KEYNOTES

#	KEYNOTE
8	120-MINUTE OVERRIDE AS REQUIRED BY ENERGY CODE, LOCATED IN THE EMS PANEL. COORDINATE WORK AND REQUIREMENTS WITH REFRIGERATION CONTRACTOR AND GOI PROJECT MANAGER.
32	PROVIDE A J-BOX FOR CONNECTION OF POWER HAND DRYER. SEE ARCH. SHEETS FOR ADA MOUNTING INFO.
39	120V, 20A CIRCUIT FOR SINK FAUCET. VERIFY LOCATION PRIOR TO INSTALLATION.
40	20A, 120V, 1P RECEPTACLE FOR DRINKING FOUNTAIN. CIRCUIT BREAKER AT INDICATED PANEL TO BE GFCI TYPE.
44	PROVIDE COPPER COMMUNICATION GROUNDING BUSBAR TO ACCOMMODATE AT LEAST THREE TERMINATIONS FOR COMMUNICATION SYSTEM. BUSBAR SHALL BE SECURELY FASTENED AND SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
47	PROVIDE DEDICATED DUPLEX OUTLET ABOVE OFFICE HARD LID FOR SECURITY ALARM PANEL. IF NO ACCESS ABOVE HARD LID, MOUNT RECEPTACLE ABOVE SAFE. VERIFY LOCATION AND REQUIREMENTS WITH GOI PROJECT MANAGER.
48	PROVIDE RECEPTACLE FOR TELEPHONE SWITCHING CPU. VERIFY LOCATION AND REQUIREMENTS WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN.
49	LOW VOLTAGE CONTRACTOR IS REQUIRED TO EXTEND TELEPHONE AND FIBER FROM PROPERTY DMARK LOCATION TO I.T. RACK AREA AS REQUIRED. E.C. SHALL COORDINATE WITH GOI I.T. REP FOR EXACT REQUIREMENTS AND RESPONSIBILITIES.
50	4'X 8'X3/4" THICK FIRE RESISTIVE PLYWOOD WITH CODE APPROVED GROUNDING MEANS FOR TELEPHONE. VERIFY LOCATION WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN. EXTEND TELEPHONE SERVICE CONDUIT STUB TO BACKBOARD.
51	MINIMUM OF 3' CLEARANCE IN FRONT OF THE ELECTRICAL EQUIPMENT SHALL BE PROVIDED. MARKINGS ON FLOOR TO INDICATE CLEARANCE AREA. RECTANGLE, PAINT WITH CONTRASTING COLOR, 4" BRUSH STROKES WITH DIAGONAL LINES INSIDE WITH 6" LETTERS "NO STORAGE" BLOCKED IN AND/OR LARGE STICKER SAYING THE SAME THING.
52	PROVIDE ISOLATED GROUND QUADRAPLEX RECEPTACLE WITH ADDITIONAL ISOLATED GROUND WIRE FOR OFFICE EQUIPMENT POWER. COORDINATE FINAL LOCATIONS WITH QUALITY SOLUTIONS.
53	FIVE (5) 2" CONDUITS 2'-6" FROM WALL TO FRONT OF DATA RACK ABOVE CEILING TO 7'-2" AFF (1ST AT 25", 2ND AT 28", 3RD AT 31", 4TH AT 34" AND 5TH ROUTED THRU THE ROOF) INCLUDING CHAFFING PROTECTION INTO WIRE MOLDING TO ALLOW CONDUITS DIRECTLY INTO WIRE MANAGEMENT. ONE (1) VOICE, ONE (1) DATA, ONE (1) CAMERA AND ONE (1) SPEAKER. (2) 2" CONDUITS TOWARDS CHECK STANDS,(2) 2" CONDUITS TOWARDS BOH AND (1) 2" CONDUIT FOR REOOF ANTENNA. COORDINATE FINAL LOCATION WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN.
54	PROVIDE #6 GROUND FOR DATA RACK TO NEAREST GROUNDING ELEMENT OF BUILDING STRUCTURE.
55	RECEPTACLE FOR EMPLOYEE TIME CLOCK AT +48"-+60" A.F.F., PROVIDE LOW VOLTAGE WIRING THROUGH THE WALL FOR THE CONNECTION OF KEYPAD. VERIFY FINAL INSTALLATION LOCATION WITH GOI PROJECT MANAGER AND SECURITY VENDOR PRIOR TO ROUGH-IN. IF TIME CLOCK IS LOCATED ON THE OPPOSITE WALL OF THE DATA RACK, NO RECEPTACLE IS NEEDED AND TIME CLOCK WILL BE POWERED FROM THE DATA RACK.
56	PROVIDE DUPLEX CONTROLLED RECEPTACLE. IT IS TO BE CONNECTED VIA WALL SWITCH OCCUPANCY SENSOR, DUAL TECHNOLOGY SET UP TO "MANUAL ON" MODE, BY SENSOR SWITCH mWSX-DT-LV OR EQUAL AND POWER PACK, BY SENSOR SWITCH nPP18-PLT24 OR EQUAL. REFER TO LIGHTING PLAN. CONTROLLED RECEPTACLES SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM NON-CONTROLLED RECEPTACLES.
57	PROVIDE HARDWIRED PLUG STRIP WITH SIMPLEX PLUGS EVERY 12" ON CENTER. VERIFY COLOR REQUIREMENTS WITH ARCHITECT AND GOI CONSTRUCTION MANAGER.
58	1" EMT FROM DATA RACK TO EACH PHONE/DATA LOCATION. ONE UNDER CENTER OF EACH COUNTER. TERMINATE WITH J-BOX @ 18" AFF. STUB CONDUIT TO ABOVE CEILING.
59	PROVIDE DEDICATED ISOLATED GROUND RECEPTACLE FOR FAX MACHINE. VERIFY LOCATION WITH OWNER.
60	VERIFY OFFICE RECEPTACLES LAYOUT WITH SECURITY VENDOR DATA PLANS PRIOR TO ROUGH-IN WORK. SEE ARCHITECTURAL OFFICE INTERIOR ELEVATIONS FOR OUTLET HEIGHTS.
61	IF A SOLID WALL (I.E. CONCRETE) OCCURS BETWEEN THE CHECK STANDS AND OFFICE, CONTRACTOR TO PROVIDE AN OPENING IN WALL AS REQUIRED FOR WIRING / CABLING TO PASS THROUGH WALL.
62	TWO (2) QUAD OUTLETS AT THE BACK OF DATA RACK 12" FROM END WALL' ONE (1) AT +16" AFF AND ONE (1) AT +48" AFF. VERIFY EXACT LOCATION WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
64	PROVIDE POWER TO FIRE ALARM PANEL. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF RECEPTACLE WITH FIRE ALARM VENDOR PRIOR TO ROUGH-IN.
70	EXHAUST FANS & TRANSFER FANS SHALL BE CONTROLLED VIA LOCAL FAN RATED LIGHT SWITCH/OCCUPANCY SENSOR IN THE SPACE THEY SERVE. REFER TO LIGHTING PLANS FOR MORE INFORMATION.
90	1"C FROM EMS CONTROL PANEL TO DATA RACK.
91	120V DEDICATED SINGLE RECEPTACLE WIRED FROM ASSIGNED TERMINALS AS INDICATED, WHICH WILL SERVE AS THE POWER FOR THE EMS DISPLAY. REFER TO REFRIGERATION DRAWINGS FOR ADDITIONAL REQUIREMENTS.
94	PROVIDE A CAT5 CABLE FROM EMS DISPLAY TO HUB SWITCH AT THE RACK. REFER TO WIRING DIAGRAMS ON REFRIGERATION SHEETS FOR MORE INFORMATION.
101	PROVIDE A J-BOX FOR DEDICATED REFRIGERATION RACK CONTROL POWER (120V). VERIFY EXACT LOCATION AND COORDINATE WORK WITH R.C., REFER TO REFRIGERATION DRAWINGS FOR MORE INFORMATION.
102	1/2"C FROM THE COMPRESSOR CONTROL CABINET STUBBED WITHIN 2" OF CEILING, TO STRUCTURE ABOVE WITH A 90 DEGREE SWEEP AT TOP, TERMINATING AT NEAREST STRUCTURAL MEMBER. SECURE CONDUIT AT BOTH ENDS. THIS MUST BE SEPARATE FROM ANY HIGH VOLTAGE CONDUIT.
103	E.C. TO RUN THREE (3) POWER WIRES AND TWO (2) CONTROL WIRES FROM COMPRESSOR RACK POWER PANEL UP TO GAS COOLER PANEL ON ROOF IN SEPARATE CONDUITS.
111	PHOTOCELL INSTALLED BY RC. E.C. TO WIRE AND PROVIDE 3C-18 AWG SHIELDED CABLE TO SENSOR FROM RACK PANEL.
116	OSA TEMP SENSOR INSTALLED BY RC, E.C. TO PROVIDE AND INSTALL 2C-18 AWG SHIELDED TO RACK PANEL.
117	OSA TEMP SENSOR INSTALLED BY RC, E.C. TO PROVIDE AND INSTALL 2C-18 AWG SHIELDED FROM CONDENSER PANEL.
128	MODULAR REFRIGERANT LEAK DETECTION SENSOR (MRLDS), PRE-MOUNTED ON RACK. FIELD VERIFY LOCATION.
196	E.C TO FURNISH 208V/1P, NEMA 6-20R RECEPTACLE FOR BOTTLE REDEMPTION EQUIPMENT. COORDINATE EQUIPMENT PLUG TYPE AND ALL OTHER APPURTENANCES WITH EQUIPMENT MANUFACTURER. VERIFY MOUNTING HEIGHT AND LOCATION WITH GOI PROJECT MANAGER PRIOR TO ROUGH-IN.

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CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE
ENLARGED ELECTRICAL PLANS

SHEET NUMBER
E4-01

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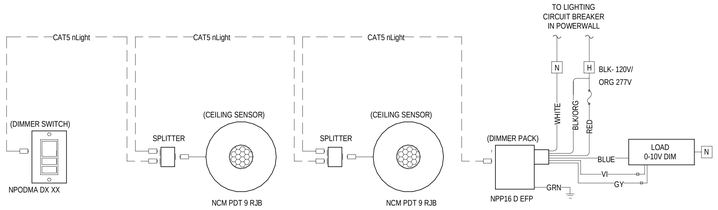
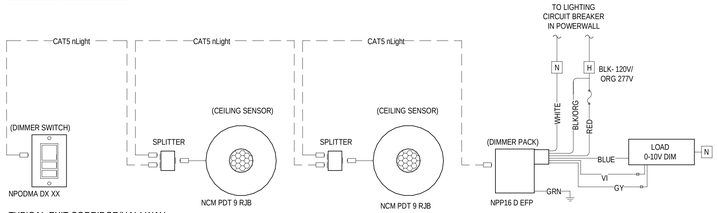
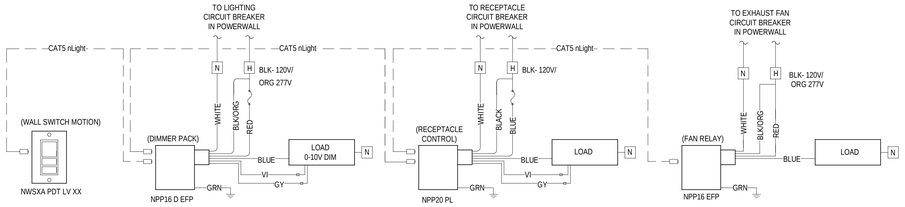


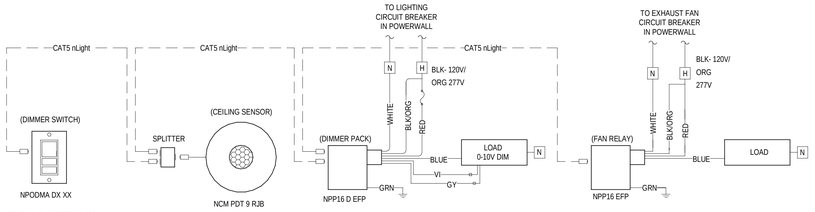
TYPICAL EQUIPMENT ROOM



TYPICAL EXIT CORRIDOR/HALLWAY



TYPICAL FRONT OFFICE/ BACK OFFICE/ BREAKROOM

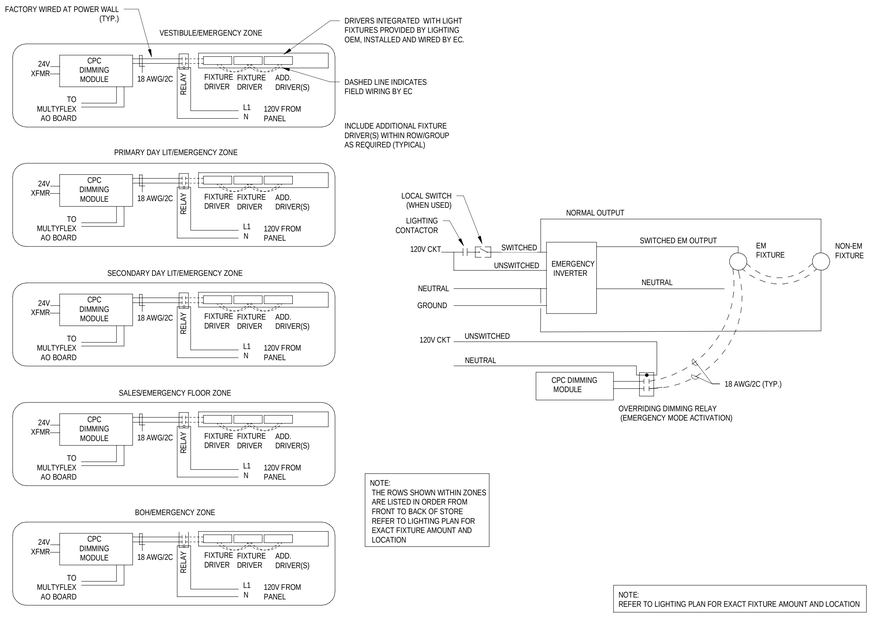


TYPICAL RESTROOM

NOTES:

1. ALL DEVICES, SENSORS AND POWER PACKS SHOWN ABOVE ARE FURNISHED BY GROCERY OUTLET, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
2. THESE ARE TYPICAL DETAILS FOR REFERENCE ONLY. REFER TO LIGHTING PLANS FOR DEVICE LOCATIONS AND QUANTITY.

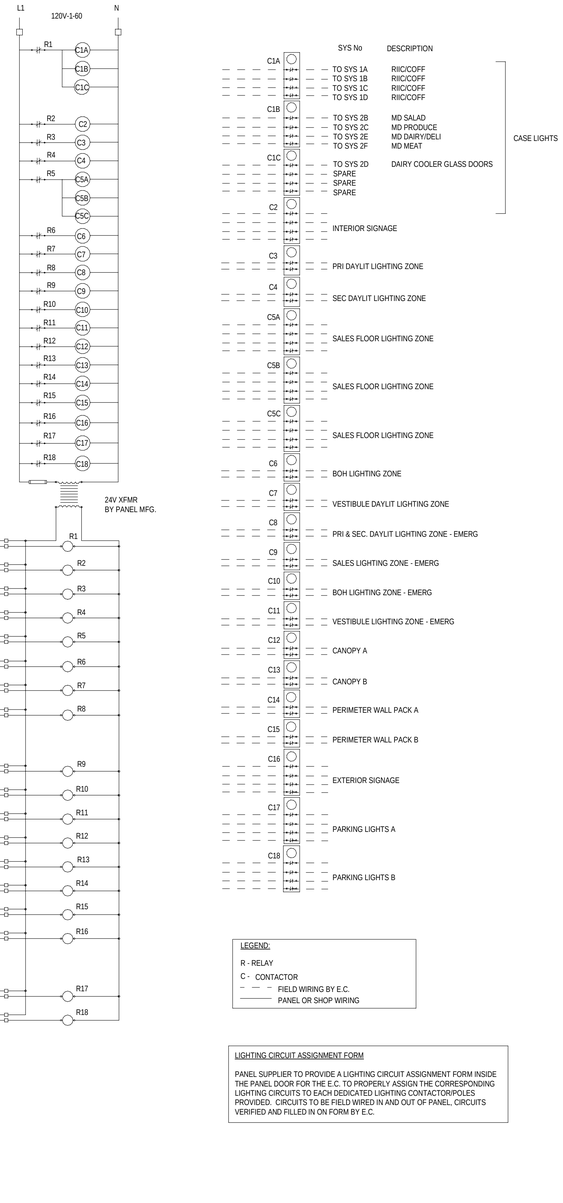
1 E5-01 LIGHTING CONTROL DIAGRAMS



NOTE:
THE ROWS SHOWN WITHIN ZONES ARE LISTED IN ORDER FROM FRONT TO BACK OF STORE
REFER TO LIGHTING PLAN FOR EXACT FIXTURE AMOUNT AND LOCATION

NOTE:
REFER TO LIGHTING PLAN FOR EXACT FIXTURE AMOUNT AND LOCATION

2 E5-01 DIMMING MODULE CONTROL ZONES



3 E5-01 LIGHTING CONTACTOR WIRING DIAGRAM

LEGEND:

R - RELAY
C - CONTACTOR
FIELD WIRING BY E.C.
PANEL OR SHOP WIRING

LIGHTING CIRCUIT ASSIGNMENT FORM

PANEL SUPPLIER TO PROVIDE A LIGHTING CIRCUIT ASSIGNMENT FORM INSIDE THE PANEL DOOR FOR THE E.C. TO PROPERLY ASSIGN THE CORRESPONDING LIGHTING CIRCUITS TO EACH DEDICATED LIGHTING CONTACTOR/POLES PROVIDED. CIRCUITS TO BE FIELD WIRED IN AND OUT OF PANEL, CIRCUITS VERIFIED AND FILLED IN ON FORM BY E.C.

CIRCUIT CONTACTOR SCHEDULE

# of Poles	Load Name	Circuit Number	Contactor Description
C1A			
1	SYS 1A LTG	RP/17	RIIC/COFF
1	SYS 1B LTG	RP/19	RIIC/COFF
1	SYS 1C LTG	RP/21	RIIC/COFF
1	SYS 1D LTG	RP/23	RIIC/COFF
4			
C1B			
1	SYS 2B LTG	RP/25	MD SALAD
1	SYS 2C LTG	RP/27	MD PRODUCE
1	SYS 2E LTG	RP/29	MD DAIRY/DELI
1	SYS 2F LTG	RP/31	MD MEAT
4			
C1C			
1	COOLER DOOR LIGHTS	RP/26	DAIRY COOLER GLASS DOORS
1			
C2			
1	STORE OPEN SIGN	LP/7	STORE OPEN SIGN
1	BEER SIGN	LP/9	BEER SIGN
2			
C3			
1	PRI LTG ZONE	LP/18	PRI DAYLIT LIGHTING ZONE
1			
C4			
1	SEC LTG	LP/11	SEC DAYLIT LIGHTING ZONE
1			
C5A			
1	SALES FLOOR LTG 1	LP/25	SALES FLOOR LIGHTING ZONE
1	SALES FLOOR LTG 2	LP/27	SALES FLOOR LIGHTING ZONE
1	SALES FLOOR LTG 3	LP/29	SALES FLOOR LIGHTING ZONE
1	SALES FLOOR LTG 4	LP/31	SALES FLOOR LIGHTING ZONE
4			
C5B			
1	SALES FLOOR LTG 5	LP/33	SALES FLOOR LIGHTING ZONE
1			
C6			
1	RECEIVING LTG 1	LP/32	STOCKROOM/BOH LIGHTING ZONE
1	RECEIVING LTG 2	LP/34	STOCKROOM/BOH LIGHTING ZONE
2			
C8			
1	SALES FLOOR EM LTG 1	LP/4	EM PRI & SEC DAYLIT LIGHTING ZONE
1			
C9			
1	SALES FLOOR EM LTG 2	LP/6	EMERG SALES LIGHTING ZONE
1	HLWY RR BRK RM LTG EM	LP/12	EMERG SALES LIGHTING ZONE
2			
C10			
1	RECEIVING LTG EM	LP/22	EM STOCKROOM/BOH LIGHTING ZONE
1			
C11			
1	VESTIBULE EM LTG	LP/2	EMERG VESTIBULE LIGHTING ZONE
1			
C12			
1	FRONT CANOPY LTG	LP/28	FRONT CANOPY
1	FRONT CANOPY LTG	LP/30	FRONT CANOPY LTG
2			
C13			
1	REAR CANOPY LTG	LP/17	REAR CANOPIES
1			
C14			
1	NORTH WALLPACK LTG	LP/21	PERIMETER WALLPACK A
1			
C15			
1	SOUTH WALLPACK LTG	LP/19	PERIMETER WALLPACK B
1			
C16			
1	STOREFRONT SIGN - EAST	LP/1	STORE SIGN
1	DEPARTMENT SIGNS	LP/3	STORE SIGN
1	STOREFRONT SIGN - NORTH	LP/5	STORE SIGN
3			
C17			
1	NORTH PARKING LIGHTS	LP/13	PARKING LOT LIGHTS A
1			
C18			
1	SOUTH PARKING LIGHTS	LP/15	PARKING LIGHTS B
1			

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ELECTRICAL DETAILS

SHEET NUMBER

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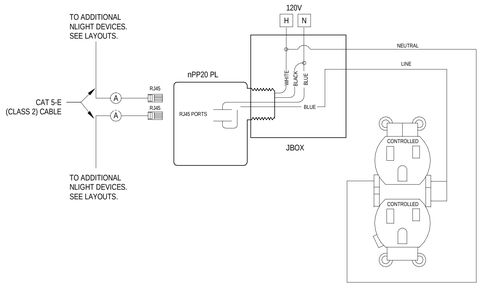
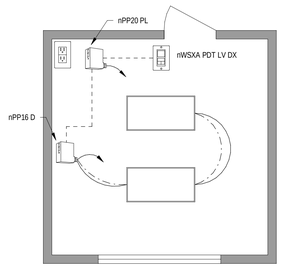


1 E5-02 TYPICAL CONTROLLED RECEPTACLES DETAIL
NOT TO SCALE



SEQUENCE OF OPERATION:

LIGHTS
- ALL LIGHTS ARE DIMMABLE
- FIXTURES ARE CONTROLLED BASED ON POWER PACK LINE VOLTAGE AND 0-10V WIRING
- MAXIMUM LEVEL CAN BE TASK TUNED TO ANY PERCENTAGE VIA PROGRAMMING

OCCUPANCY
- LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%-70%)
- PLUG LOAD TURNS ON AUTOMATICALLY
- LIGHTS AUTOMATICALLY TURN OFF WHEN ROOM BECOMES VACANT

DAYLIGHT
- NOT REQUIRED IF ROOM HAS <24FT OF GLAZING OR <120W, IN THE SKYLIT AND THE SIDELIT DAYLIT ZONE

MANUAL
- ON/OFF & RAISE/LOWER CONTROL OF LIGHTS

ADDITIONAL OPTIONS:
- ROOM CAN BE CONNECTED TO NLIGHT BACKBONE TO ENABLE NETWORK CONTROL, TIME SCHEDULES AND AUTOMATED DEMAND RESPONSE (OPENADR 2.0A)
- HVAC CONTROL AVAILABLE THROUGH SYSTEM-WIDE BACNET® INTERFACE OPTION ON THE ECLYPSE CONTROLLER OR THROUGH OCCUPANCY SENSOR AUXILIARY RELAY (AR) CONTACT OPTION
- WIRELESS FIXTURE EMBEDDED CONTROL AND OCCUPANCY/DAYLIGHTING SENSOR OPTIONS AVAILABLE, PLEASE SEE THE FIXTURE SPECIFICATION SHEET

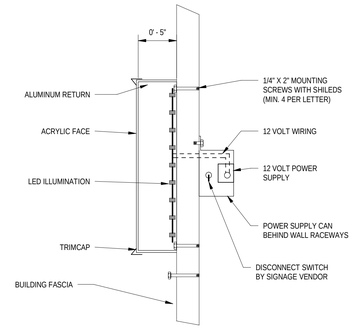
DIAGRAM LEGEND

- - - - - - - -	CAT-5e CABLE
- · - · - · - ·	0-10V DC WIRES
———	LINE VOLTAGE WIRES
⌒	LINE POWER

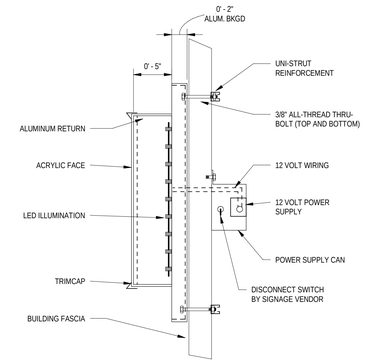
BILL OF MATERIAL

QTY	PRODUCT #	DESCRIPTION
1	nPP16 D EFP	RELAY MODULE WITH 0-10V DIMMING OUTPUT
1	nPP20 PL	PLUG LOAD RELAY PACK
1	nWSXA PDT LV DX	WALL SWITCH OCCUPANCY SWITCH WITH ON/OFF & RAISE/LOWER

2 E5-02 TYPICAL CONTROL RECEPTACLES WITH LIGHT SWITCH DETAIL
NOT TO SCALE



3 E5-02 STOREFRONT DEPARTMENT SIGN DETAIL
NOT TO SCALE



4 E5-02 STOREFRONT TENANT SIGN DETAIL
SCALE: NOT TO SCALE

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Fullerton, CA 92835
(714) 578-2300 office
www.coolsysenergydesign.com

ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
97558PE
OREGON
DEC. 31, 2026
REZA NOROUZI

PROFESSIONAL IN CHARGE
RN
PROJECT MANAGER
GH
QUALITY CONTROL
RN
DRAWN BY
AE

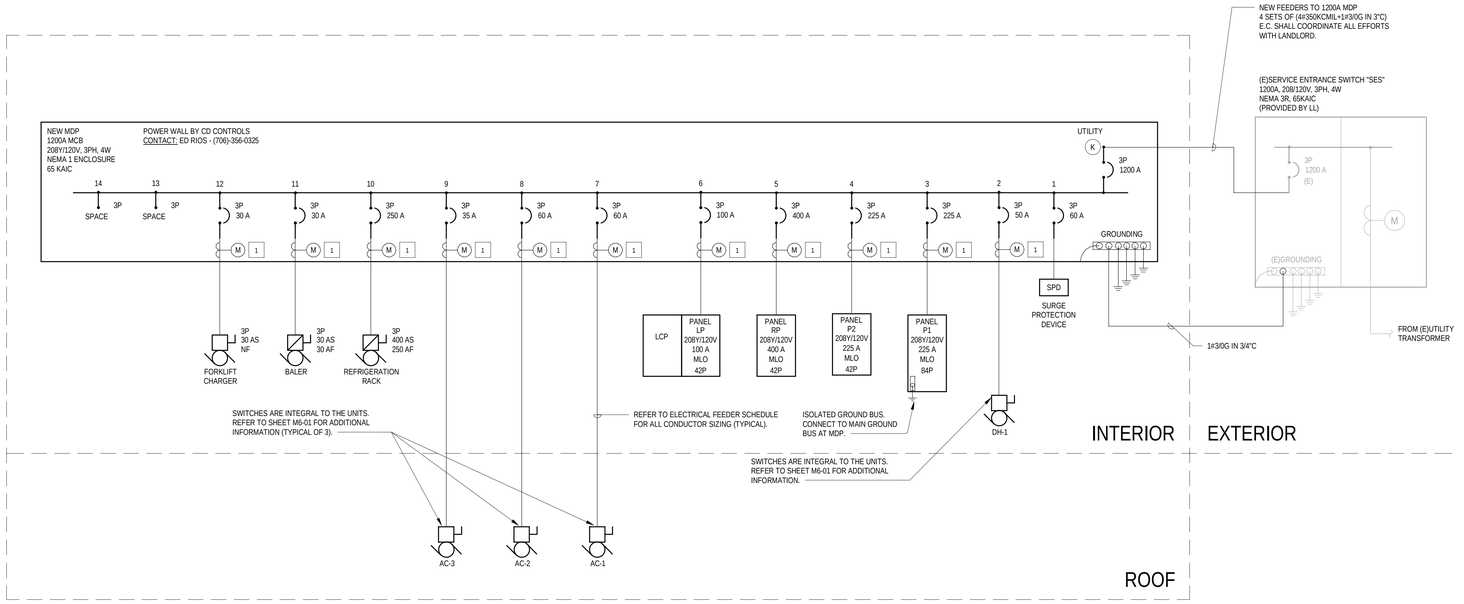
PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE
ELECTRICAL
DETAILS II

SHEET NUMBER
E5-02

Last Modified:2/24/2025 1:10:27 PM Drawing Name:Autodesk Docs://Grocery Outlet - Central Point, OR (0060) TI\GO_Central Point_OR_MEPR_R23.rvt



1 E6-01 ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NOT TO SCALE

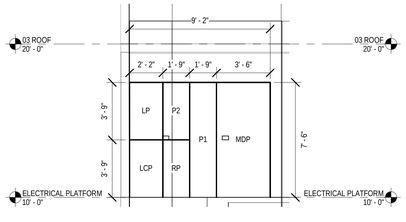
GENERAL NOTES

1. ALL ELECTRICAL EQUIPMENTS AND FEEDERS ARE NEW UNLESS OTHERWISE NOTED. TORQUE ALL TERMINATIONS PER MANUFACTURER RECOMMENDATION. ALL EQUIPMENT SHOWN IS THAT OF EATON BRAND, OTHER MANUFACTURER IS ACCEPTABLE -SUBJECT TO ENGINEER'S APPROVAL.
2. CONTRACTOR TO COORDINATE THE AVAILABLE SHORT CIRCUIT CURRENT WITH THE UTILITY COMPANY AND MAKE ADJUSTMENTS AS REQUIRED. MAIN SWITCHBOARD SHALL BE FULLY RATED.
3. ALL GROUNDING ELECTRODES AS DESCRIBED IN NEC 250.52 THAT ARE PRESENT AT THE BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. PROVIDE BONDING TO THE UNDERGROUND METAL WATER PIPE, ALL METAL PIPING SYSTEM AND STRUCTURAL METAL (IF AVAILABLE) TO THE GROUNDING ELECTRODE SYSTEM USING #3/0 CU.
4. THE CALCULATED AVAILABLE FAULT CURRENT THAT COULD BE PROVIDED TO THE SERVICE EQUIPMENT SHALL BE FIELD MARKED AS REQUIRED BY NEC 110.24(A). INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED, AND THE MAXIMUM AVAILABLE FAULT CURRENT.
5. PER NEC 230-95(C) WHERE A SERVICE DISCONNECT IS 1000 AMPS OR MORE, A PERFORMANCE TEST OF THE GROUND-FAULT PROTECTION SYSTEM IS TO BE CONDUCTED.
6. ALL WIRE IS COPPER.
7. ALL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED AS EXISTING, "(E)"
8. ALL DEVICES ARE 3 POLE UNLESS OTHERWISE NOTED.
9. ONLY U.L. LISTED EQUIPMENT SHALL BE USED.
10. RATING OF ALL OVERCURRENT PROTECTION DEVICES, SWITCHES AND MAGNETIC STARTERS TO BE VERIFIED WITH NAMEPLATE RATING OF ASSOCIATED UNIT AND TO BE REVISED AS REQUIRED.
11. NEW PANELBOARD BREAKERS AIC RATINGS SHALL MATCH EXISTING BREAKER'S RATINGS.
12. PROVIDE NEW DEADFRONT COVERS AT DISTRIBUTION SECTION AS NECESSARY.
13. ALL ELECTRICAL EQUIPMENT SHALL BE TOP-EXIT. PROVIDE TOP-EXIT WIREWAYS WHERE REQUIRED. NO UNDERSLAB CONDUIT ALLOWED.
14. ALL INTERIOR POWER WIRE,LUGS AND TERMINATIONS ARE TO BE 75 DEGREES RATED
15. PROVIDE PERMANENT LABEL ON PANELBOARD FACE THAT INDICATES THE LOCATION AND CIRCUIT DESIGNATION OF THE CIRCUIT BREAKER SUPPLYING THE PANEL (TYPICAL FOR ALL MAIN LUG PANELBOARDS)

VERIFY ALL UTILITY REQUIREMENTS PRIOR TO BID AND COORDINATE ALL WORK PRIOR TO CONSTRUCTION WITH UTILITY PLANNER.

ELECTRICAL FEEDER SCHEDULE - MDP

CIRCUIT INFORMATION			LOAD INFORMATION			OCPD	FEEDERS			VOLT DROP	
PANEL	CKT NUMBER	LOAD NAME	VOLTAGE	# POLES	APPARENT CURRENT	CB RATING	SIZE (H,N,G) (AWG/kcmil)	TYPE	CONDUIT SIZE	VD%	LENGTH
MDP	2	DH-1	208 V	3	36 A	50 A	3-#8, 1-#10	THWN-CU75		2.07%	88' - 5"
MDP	3	P1	208 V	3	90 A	225 A	3-#4/0, 1-#4/0, 1-#4	THWN-CU75	2-1/2"	0.05%	9' - 10"
MDP	4	P2	208 V	3	68 A	225 A	3-#4/0, 1-#4/0, 1-#4	THWN-CU75	2-1/2"	0.05%	11' - 7"
MDP	5	RP	208 V	3	107 A	400 A	2 runs of 3-#3/0, 1-#3/0, 1-#3	THWN-CU75	(2)2"	0.06%	15' - 4"
MDP	6	LP	208 V	3	61 A	100 A	3-#2, 1-#2, 1-#8	THWN-CU75	1-1/4"	0.15%	13' - 7"
MDP	7	AC-1	208 V	3	41 A	60 A	3-#6, 1-#10	THWN-CU75	1-1/4"	2.68%	160' - 3"
MDP	8	AC-2	208 V	3	41 A	60 A	3-#6, 1-#10	THWN-CU75	1-1/4"	1.96%	117' - 2"
MDP	9	AC-3	208 V	3	24 A	35 A	3-#8, 1-#10	THWN-CU75	1"	1.76%	113' - 2"
MDP	10	REFRIGERATION RACK	208 V	3	226 A	250 A	3-#250, 1-#4	THWN-CU75	3"	0.28%	28' - 8"
MDP	11	BALER	208 V	3	16 A	30 A	3-#10, 1-#10	THWN-CU75	3/4"	2.23%	139' - 7"
MDP	12	FORKLIFT CHARGER	208 V	3	22 A	30 A	3-#10, 1-#10	THWN-CU75	3/4"	2.32%	106' - 6"



2 E6-01 POWERWALL ELEVATION

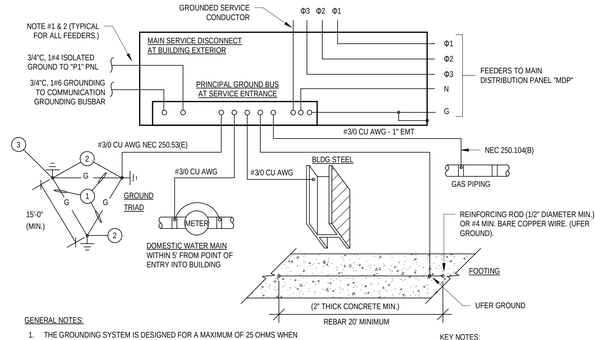
SCALE: 1/4" = 1'-0"

Node #	Description	Fed by Node #	Starting Isc	L-L Voltage	Feeder Length	Feeder Size	No. of Sets	Isc	Isc (Xfmr Primary)	Next XFMR KVA	Next XFMR %Z	Next XFMR L-L Voltage	AIC Selection
1	SES		65,000	208	0	350	4	**65,000**					
2	MDP	1	65,000	208	88	350	4	**42,659**					65,000
3	P1	2	42,659	208	9	4/0	1	**35,795**					50,000
4	P2	2	42,659	208	18	4/0	1	**30,834**					42,000
5	RP	2	42,659	208	16	3/0	2	**35,428**					50,000
6	LP	2	42,659	208	9	2	1	**27,901**					42,000

SHORT CIRCUIT NOTES

1. AIC RATING INDICATED ON PANELS ARE MINIMUMS, LARGER PANEL RATING WILL BE ALLOWED WHERE REQUIRED FOR COORDINATION OF BRANCH BREAKERS OR UP STREAM FEEDERS. (EX. WHERE A PANEL MIN AIC IS RATED FOR 35KAIC BUT THE 3-PHASE BRANCH BREAKER FOR AN HVAC UNIT IS NOT AVAILABLE AT 35KAIC, THE PANEL AIC RATING MAY BE INCREASED TO A MORE COMMON SIZE LIKE 42KAIC).
2. ALL AIC SHOWN ON THIS PLAN OR IN PANEL SCHEDULES IS BASED ON FULLY RATED PANELS AND INCLUDES MOTOR LOADS. WHERE E.C. OBTAINS FULL SYSTEM COORDINATION STUDY FROM EQUIPMENT MANUFACTURER THE AIC RATING OF PANELS WITH COORDINATED BREAKERS MAY BE ADJUSTED. E.C. SHALL TAKE FULL RESPONSIBILITY FOR ALL ADJUSTMENTS TO PANEL RATINGS, FAILURE TO OBTAIN COORDINATION STUDY AND ANY MODIFICATIONS THAT ARE MADE WILL BE SOLELY THE RESPONSIBILITY OF THE E.C. THIS INCLUDES ANY COST INVOLVED WITH REPLACEMENT OF ANY EQUIPMENT, WIRE AND CONDUITS. AS WELL AS REPLACEMENT OF ANY DAMAGES TO BUILDING OR MERCHANDISE.

3 E6-01 SHORT CIRCUIT CALCULATION



GENERAL NOTES:

1. THE GROUNDING SYSTEM IS DESIGNED FOR A MAXIMUM OF 25 OHMS WHEN MEASURED FROM THE GROUND BUS TO THE SINGLE POINT GROUND LOCATED OUTSIDE OF THE BUILDING ENVELOPE.
2. GROUNDING SHOWN SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC ARTICLE 250.
3. BOND ACROSS WATER METERS, ETC.

KEY NOTES:

1. 3/0 COPPER WIRE.
2. CADWELD CONNECTION.
3. COPPERCLAD GROUND ROD. 3/4"X10' LOCATED 18" MINIMUM BELOW FINISHED GRADE.(TYPICAL) U.O.N.

GROUNDING DETAIL IS FOR REFERENCE ONLY. EXISTING SYSTEM WILL ALREADY HAVE SERVICE GROUND BUS.

4 E6-01 GROUNDING DETAIL

www.greenbergfarrow.com
30 Executive Park
Suite 100
Irvine, CA 92614
t: 949 296 0450

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PROJECT TEAM

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER 97558PE OREGON DEC 31, 2026 REZA NOROUZI

PROFESSIONAL IN CHARGE
RN
PROJECT MANAGER
GH
QUALITY CONTROL
RN
DRAWN BY
AE

PROJECT NAME

CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24 - CA140 - 01

SHEET TITLE

ELECTRICAL SINGLE LINE DIAGRAM

SHEET NUMBER

E6-01

Last Modified 2/24/2025 1:18:27 PM Drawing Name:Autodesk Docs://Hickory Outlet - Central Point, OR (000)_Tilt_Central Point, OR_MEPR_R22.rvt

Switchboard: MDP

Location: EQUIPMENT PLATFORM 201
Supply From: SES
Mounting: POWERWALL
Enclosure: NEMA-1

Volts: 208/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000 RMS
Mains Type: MCB
Mains Rating: 1200 A
MCB Rating: 1200 A

Notes: PROVIDE KIRK KEY INTERLOCK FROM MAIN 1200A BREAKER TO MOBILE GENERATOR BREAKER.

CKT	Circuit Description	# of Poles	Breaker Size	Load	Remarks
1	SURGE PROTECTION DEVICE	1	60 A	0 VA	
2	DH-1	3	50 A	12970 VA	
3	P1	3	225 A	32586 VA	
4	P2	3	225 A	24569 VA	
5	RP	3	400 A	38527 VA	
6	LP	3	100 A	22086 VA	
7	AC-1	3	60 A	14771 VA	
8	AC-2	3	60 A	14771 VA	
9	AC-3	3	35 A	8646 VA	
10	REFRIGERATION RACK	3	250 A	81420 VA	
11	BALER	3	30 A	5764 VA	
12	FORKLIFT CHARGER	3	30 A	7854 VA	
13	SPACE	3	--	--	
14	SPACE	3	--	--	
				263964 VA	
				733 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
H	17403 VA	100.00%	17403 VA		
L	23938 VA	125.00%	29923 VA	**Total Conn. Load:**	263964 VA
REC	900 VA	100.00%	900 VA	**Total Est. Demand:**	245843 VA
NC	24492 VA	100.00%	24492 VA	**Total Connected Load:**	733 A
C	3000 VA	125.00%	3750 VA	**Total Est. Demand:**	682 A
REF	105728 VA	85.00%	89869 VA		
HVAC	60261 VA	100.00%	60261 VA		
Lighting	166 VA	125.00%	208 VA		
R	28076 VA	67.81%	19038 VA		

Notes:

PANEL NAME: P1

FED FROM: MDP
MOUNTING: POWERWALL
ENCLOSURE: NEMA-1
LOCATION: EQUIPMENT PLATFORM 201

FEED: 208/120 Wye , 3 PHASE, 4 WIRE
BUS RATING: 225 A
OCPD: MLO
AIC RATING: 50,000 RMS

#	ID	Circuit Description	P	Wire (H,N,G)	CB	Load	A	B	C	Load	CB	Wire (H,N,G)	P	Circuit Description	ID	#
1		CHECKSTAND BELT 1	1	1-#10, 1-#10, 1-#10	20 A	NC	750 / 360			R	20 A	1-#12, 1-#12, 1-#12	1	BRK RM CTRL REC		2
3	IG	CHECKSTAND REG 1	1	1-#12, 1-#12, 1-#12	20 A	R		400 / 720		REC, R	20 A	1-#10, 1-#10, 1-#10	1	ROOFTOP REC 1		4
5		CHECKSTAND MERCH 1	1	1-#12, 1-#12, 1-#12	20 A	R			360 / 360	R	20 A	1-#12, 1-#12, 1-#12	1	ROOFTOP REC 2		6
7		DEHUMIDIFIER REC	1	1-#12, 1-#12, 1-#12	0 A	NC	0 / 1,000			R	20 A	1-#12, 1-#12, 1-#12	1	SALES COFFEE GRINDER		8
9		DOORBELL	1	1-#12, 1-#12, 1-#12	20 A	NC		180 / 500		R	20 A	1-#12, 1-#12, 1-#12	1	FLOOR SCRUBBER		10
11		SPARE	1	--	20 A	--			0 / 1,000	R	20 A	1-#12, 1-#12, 1-#12	1	BRK RM MICROWAVE		12
13	IG	SELF CHECKOUT REG 1	1	1-#12, 1-#12, 1-#12	20 A	R	400 / 1,000			R	20 A	1-#12, 1-#12, 1-#12	1	BRK RM REFRIGERATOR		14
15		SELF CHECKOUT MERCH 1	1	1-#12, 1-#12, 1-#12	20 A	R		360 / 180		R	20 A	1-#12, 1-#12, 1-#12	1	BREAK ROOM FAUCET		16
17	IG	SELF CHECKOUT REG 2	1	1-#12, 1-#12, 1-#12	20 A	R			400 / 1,300	R	20 A	1-#12, 1-#12, 1-#12	1	BRK RM COFFEE MAKER		18
19		SELF CHECKOUT MERCH 2	1	1-#12, 1-#12, 1-#12	20 A	R	360 / 180			R	20 A	1-#12, 1-#12, 1-#12	1	WATER FOUNTAIN REC.	G1	20
21	IG	SELF CHECKOUT REG 3	1	1-#12, 1-#12, 1-#12	20 A	R		400 / 1,664		R	20 A	2-#10, 1-#10	2	BOTTLE REDEMPTION		22
23		SELF CHECKOUT REG 4	1	1-#12, 1-#12, 1-#12	20 A	R			400 / 1,664							24
25		ENTRY AUTO DOOR 1	1	1-#8, 1-#8, 1-#8	20 A	NC	1,200 / 1,664			R	20 A	2-#10, 1-#10	2	BOTTLE REDEMPTION		26
27		ENTRY AUTO DOOR 2	1	1-#6, 1-#6, 1-#6	20 A	NC		1,200 / 1,664								28
29		MERCH. CREEP REC.	1	1-#12, 1-#12, 1-#12	20 A	R			180 / 360	R	20 A	1-#12, 1-#12, 1-#12	1	FRONT OFFICE REC.	IG	30
31		ADA CART CHARGER	1	1-#12, 1-#12, 1-#12	20 A	R	500 / 540			R	20 A	1-#12, 1-#12, 1-#12	1	FRONT OFFICE PLUGSTRIP 2		32
33		ECTS CONTROLLER	1	1-#10, 1-#10, 1-#10	30 A	H		360 / 540		R	20 A	1-#12, 1-#12, 1-#12	1	FRONT OFFICE CTRL REC 1		34
35	IG	MEAT SCALE	1	1-#12, 1-#12, 1-#12	20 A	R			180 / 360	R	20 A	1-#12, 1-#12, 1-#12	1	BACK OFFICE REC.	IG	36
37		PRINTING STATION	1	1-#12, 1-#12, 1-#12	20 A	R	360 / 540			R	20 A	1-#12, 1-#12, 1-#12	1	BACK OFFICE PLUGSTRIP 2		38
39		SALES SECURITY CAMERAS	1	1-#10, 1-#10, 1-#10	20 A	R		720 / 720		R	20 A	1-#12, 1-#12, 1-#12	1	BACK OFFICE CTRL REC 1		40
41		BURGLAR ALARM	1	1-#12, 1-#12, 1-#12	20 A	R			180 / 180	R	20 A	1-#12, 1-#12, 1-#12	1	FAX MACHINE	IG	42
43		PLATFORM RECEPTACLE	1	1-#12, 1-#12, 1-#12	20 A	R	360 / 1,000			C	20 A	1-#10, 1-#10, 1-#10	1	IT RACK REC. 1	IG	44
45		STOCK ROOM REC	1	1-#12, 1-#12, 1-#12	20 A	R		720 / 1,000		C	20 A	1-#10, 1-#10, 1-#10	1	IT RACK REC. 2	IG	46
47		RESTROOMS REC.	1	1-#12, 1-#12, 1-#12	20 A	R			720 / 360	R	20 A	1-#12, 1-#12, 1-#12	1	SALES FLOOR REC. 1		48
49		DELAYED EGRESS	1	1-#12, 1-#12, 1-#12	20 A	NC	200 / 360			R	20 A	1-#12, 1-#12, 1-#12	1	SALES FLOOR REC. 2		50
51		TEL. BACKBOARD	1	1-#12, 1-#12, 1-#12	20 A	R		360 / 0		--	--	--	1	SPACE		52
53		BOTTLE REDEMPTION REC	1	1-#10, 1-#10, 1-#10	20 A	REC			720 / 0	--	--	--	1	SPACE		54
55		VIDEO MGMT SYS UPS	1	1-#12, 1-#12, 1-#12	20 A	R	360 / 0			--	--	--	1	SPACE		56
57		TEL. SWITCHING CPU	1	1-#12, 1-#12, 1-#12	20 A	R		180 / 0		--	--	--	1	SPACE		58
59	FA	FACP POWER	1	1-#12, 1-#12, 1-#12	20 A	R			500 / 0	--	--	--	1	SPACE		60
61		VIDEO MGMT SYS REC.	1	1-#12, 1-#12, 1-#12	20 A	R	360 / 0			--	--	--	1	SPACE		62
63		SPACE	1	--	--	--		0 / 0		--	--	--	1	SPACE		64
65		SPACE	1	--	--	--			0 / 0	--	--	--	1	SPACE		66
67		SPACE	1	--	--	--	0 / 0			--	--	--	1	SPACE		68
69		SPACE	1	--	--	--		0 / 0		--	--	--	1	SPACE		70
71		SPACE	1	--	--	--			0 / 0	--	--	--	1	SPACE		72
73		SPACE	1	--	--	--	0 / 0			--	--	--	1	SPACE		74
75		SPACE	1	--	--	--		0 / 0		--	--	--	1	SPACE		76
77		SPACE	1	--	--	--			0 / 0	--	--	--	1	SPACE		78
79		SPACE	1	--	--	--	0 / 0			--	--	--	1	SPACE		80
81		SPACE	1	--	--	--		0 / 0		--	--	--	1	SPACE		82
83		SPACE	1	--	--	--			0 / 0	--	--	--	1	SPACE		84
				TOTALS:		**kVA**	11.49 kVA	11.87 kVA	9.22 kVA							
						Amps	99 A	102 A	77 A							
						Load / Phase %	35	36	28							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
REC	900 VA	100.00%	900 VA		
NC	3530 VA	100.00%	3530 VA	**Total Conn. Load:**	32.6 kVA
C	2000 VA	125.00%	2500 VA	**Total Est. Demand:**	25.2 kVA
H	360 VA	100.00%	360 VA	**Total Conn. Current:**	90 A
R	25796 VA	69.38%	17898 VA	**Total Est. Demand Current:**	70 A

PANEL NAME: P2

FED FROM: MDP
MOUNTING: POWERWALL
ENCLOSURE: NEMA-1
LOCATION: EQUIPMENT PLATFORM 201

FEED: 208/120 Wye , 3 PHASE, 4 WIRE
BUS RATING: 225 A
OCPD: MLO
AIC RATING: 42,000 RMS

#	ID	Circuit Description	P	Wire (H,N,G)	CB	Load	A	B	C	Load	CB	Wire (H,N,G)	P	Circuit Description	ID	#
1		EF-1,2	1	1-#12, 1-#12, 1-#12	20 A	HVAC	60 / 70			HVAC	20 A	1-#12, 1-#12, 1-#12	1	TF-1,2		2
3		EF-3	1	1-#12, 1-#12, 1-#12	20 A	HVAC		29 / 144		NC	20 A	1-#12, 1-#12, 1-#12	1	TF-3		4
5		EH-1	2	2-#6, 1-#6	30 A	H			2,496 / 180	R	20 A	1-#12, 1-#12, 1-#12	1	RCP-1		6
7							2,496 / 1,000			NC	20 A	1-#12, 1-#12, 1-#12	1	RESTROOM #1 HAND DRYER		8
9		EH-2	2	2-#12, 1-#12	20 A	H		1,000 / 1,000		NC	20 A	1-#12, 1-#12, 1-#12	1	RESTROOM #2 HAND DRYER		10
11									1,000 / 0							12
13		CU-1	2	2-#12, 1-#12	15 A	HVAC	936 / 0									14
15								936 / 0								16
17		CU-2	2	2-#12, 1-#12	15 A	HVAC			936 / 150	NC	20 A	1-#12, 1-#12, 1-#12	1	DUCT SMOKE DETECTORS		18
19							936 / 0									20
21		CU-3	2	2-#12, 1-#12	20 A	HVAC		1,768 / 0								22
23									1,768 / 0	NC	0 A	2-#12, 1-#12	2	WH-2		24
25		AD-1	2	2-#12, 1-#12	20 A	HVAC	832 / 0			--	--	--	1	SPACE		26
27								832 / 0		--	--	--	1	SPACE		28
29		WH-1	2	2-#8, 1-#10	40 A	H			3,000 / 0	--	--	--	1	SPACE		30
31							3,000 / 0			--	--	--	1	SPACE		32
33		SPACE	1	--	--	--		0 / 0		--	--	--	1	SPACE		34
35		SPACE	1	--	--	--			0 / 0	--	--	--	1	SPACE		36
37		SPACE	1	--	--	--	0 / 0			--	--	--	1	SPACE		38
39		SPACE	1	--	--	--		0 / 0		--	--	--	1	SPACE		40
41		SPACE	1	--	--	--			0 / 0	--	--	--	1	SPACE		42
				TOTALS:		**kVA**	9.33 kVA	5.71 kVA	9.53 kVA							
						Amps	82 A	48 A	84 A							
						Load / Phase %	38	23	39							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC	2294 VA	100.00%	2294 VA		
H	12992 VA	100.00%	12992 VA	**Total Conn. Load:**	24.6 kVA
HVAC	9103 VA	100.00%	9103 VA	**Total Est. Demand:**	24.6 kVA
R	180 VA	100.00%	180 VA	**Total Conn. Current:**	68 A
				Total Est. Demand Current:	68 A

PANEL NAME: RP

FED FROM: MDP
MOUNTING: POWERWALL
ENCLOSURE: NEMA-1
LOCATION: EQUIPMENT PLATFORM 201

FEED: 208/120 Wye , 3 PHASE, 4 WIRE
BUS RATING: 400 A
OCPD: MLO
AIC RATING: 50,000 RMS

#	ID	Circuit Description	P	Wire (H,N,G)	CB	Load	A	B	C	Load	CB	Wire (H,N,G)	P	Circuit Description	ID	#
1		SYS 1A F/AS	1	1-#6, 1-#6, 1-#6	30 A	REF	2,436 / 1,872			NC	20 A	2-#8, 1-#8	2	CHEESE ISLAND		2
3		SYS 1B F/AS	1	1-#8, 1-#8, 1-#8	25 A	REF		2,064 / 1,872								4
5		SYS 1C F/AS	1	1-#6, 1-#6, 1-#6	30 A	REF			2,436 / 1,000	NC	20 A	1-#12, 1-#12, 1-#12	1	RACK 12V POWER		6
7		SYS 1D F/AS	1	1-#6, 1-#6, 1-#6	25 A	REF	2,064 / 2,131			H	25 A	1-#10, 1-#10, 1-#10	1	COOLER DOOR HEAT		8
9		SYS 2B F/ANS	1	1-#12, 1-#12, 1-#12	20 A	REF		168 / 1,800		R	20 A	1-#6, 1-#6, 1-#6	1	ICE CASE	G1	10
11		SYS 2C F/ANS	1	1-#12, 1-#12, 1-#12	20 A	REF			336 / 2,880	REF	30 A	1-#4, 1-#4, 1-#4	1	SC CASE 1		12
13		SYS 2E F/ANS	1	1-#12, 1-#12, 1-#12	20 A	REF	288 / 2,880			REF	30 A	1-#4, 1-#4, 1-#4	1	SC CASE 2		14
15		SYS 2F F/ANS	1	1-#12, 1-#12, 1-#12	20 A	REF		240 / 2,880		REF	30 A	1-#4, 1-#4, 1-#4	1	SC CASE 3		16
17		SYS 1A LTG	1	1-#12, 1-#12, 1-#12	20 A	L			240 / 1,200	H	20 A	1-#12, 1-#12, 1-#12	1	FRZ DOOR HEAT		18
19		SYS 1B LTG	1	1-#12, 1-#12, 1-#12	20 A	L	192 / 1,296			REF	20 A	1-#12, 1-#12, 1-#12	1	DAIRY COOLER FANS		20
21		SYS 1C LTG	1	1-#12, 1-#12, 1-#12	20 A	L		240 / 180		REF	20 A	1-#12, 1-#12, 1-#12	1	PRODUCE MISTER	G1	22
23		SYS 1D LTG	1	1-#12, 1-#12, 1-#12	20 A	L			192 / 720	H	20 A	1-#12, 1-#12, 1-#12	1	DRAIN LINE HEAT	G2	24
25		SYS 2B LTG	1	1-#12, 1-#12, 1-#12	20 A	L	228 / 828			L	20 A	1-#12, 1-#12, 1-#12	1	COOLER DOOR LIGHTS		26
27		SYS 2C LTG	1	1-#12, 1-#12, 1-#12	20 A	L		504 / 1,040		REF	15 A	2-#12, 1-#12	2	BEER SC CASE 1		28
29		SYS 2E LTG	1	1-#12, 1-#12, 1-#12	20 A	L			864 / 1,040							30
31		SYS 2F LTG	1	1-#12, 1-#12, 1-#12	20 A	L	336 / 1,040			REF	15 A	2-#12, 1-#12	2	BEER SC CASE 2		32
33		SPACE	1	--	--	--		0 / 1,040								34
35		SPACE	1	--	--	--			0 / 0	--	--	--	1	SPACE		36
37		SPACE	1	--	--	--	0 / 0			--	--	--	1	SPACE		38
39		SPACE	1	--	--	--		0 / 0		--	--	--	1	SPACE		40
41		SPACE	1	--	--	--			0 / 0	--	--	--	1	SPACE		42
				TOTALS:		**kVA**	15.59 kVA	12.03 kVA	10.91 kVA							
						Amps	131 A	102 A	91 A							
						Load / Phase %	40	31	28							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
L	3624 VA	125.00%	4530 VA		
NC	4744 VA	100.00%	4744 VA	**Total Conn. Load:**	38.5 kVA
H	4051 VA	100.00%	4051 VA	**Total Est. Demand:**	35.8 kVA
REF	24308 VA	85.00%	20662 VA	**Total Conn. Current:**	107 A
R	1800 VA	100.00%	1800 VA	**Total Est. Demand Current:**	99 A

PANEL NAME: LP

FED FROM: MDP
MOUNTING: POWERWALL
ENCLOSURE: NEMA-1
LOCATION: EQUIPMENT PLATFORM 201

FEED: 208/120 Wye , 3 PHASE, 4 WIRE
BUS RATING: 100 A
OCPD: MLO
AIC RATING: 42,000 RMS

#	ID	Circuit Description	P	Wire (H,N,G)	CB	Load	A	B	C	Load	CB	Wire (H,N,G)	P	Circuit Description	ID	#
1		STOREFRONT SIGN - EAST	1	1-#6, 1-#6, 1-#6	20 A	L	1,200 / 74			L	20 A	1-#12, 1-#12, 1-#12	1	VESTIBULE EM LTG		2
3		DEPARTMENT SIGNS	1	1-#8, 1-#8, 1-#8	20 A	L		1,200 / 1,010		L	20 A	1-#8, 1-#8, 1-#8	1	SALES FLOOR EM LTG 1		4
5		STOREFRONT SIGN - NORTH	1	1-#6, 1-#6, 1-#6	20 A	L			1,200 / 1,350	L	20 A	1-#8, 1-#8, 1-#8	1	SALES FLOOR EM LTG 2		6
7		STORE OPEN SIGN	1	1-#10, 1-#10, 1-#10	20 A	L	500 / 102			L	20 A	1-#12, 1-#12, 1-#12	1	OFFICES LTG		8
9		BEER SIGN	1	1-#12, 1-#12, 1-#12	20 A	R		300 / 109		L	20 A	1-#12, 1-#12, 1-#12	1	OFFICES AND BOTTLE RED....		10
11		SEC LTG	1	1-#10, 1-#10, 1-#10	20 A	L			672 / 243	L	20 A	1-#12, 1-#12, 1-#12	1	HLWY RR BRK RM LTG EM		12
13		NORTH PARKING LIGHTS	1	1-#4, 1-#4, 1-#4	20 A	L	1,385 / 500			C	20 A	1-#12, 1-#12, 1-#12	1	LTG CTRL PANEL		14
15		SOUTH PARKING LIGHTS	1	1-#4, 1-#4, 1-#4	20 A	L		1,662 / 500		C	20 A	1-#12, 1-#12, 1-#12	1	DIMMING OVERRIDE PNL		16
17		REAR CANOPY LTG	1	1-#12, 1-#12, 1-#12	20 A	L			80 / 1,232	L	20 A	1-#6, 1-#6, 1-#6	1	PRI LTG ZONE		18
19		SOUTH WALLPACK LTG	1	1-#12, 1-#12, 1-#12	20 A	Lighting	166 / 186			L	20 A	1-#12, 1-#12, 1-#12	1	FRZR CLR LTG EM		20
21		NORTH WALLPACK LTG	1	1-#12, 1-#12, 1-#12	20 A	Lightin...		306 / 683		L	20 A	1-#12, 1-#12, 1-#12	1	RECEIVING LTG EM		22
23		FRZR DAIRY CLR LTG	1	1-#12, 1-#12, 1-#12	20 A	L			204 / 162	L	20 A	1-#12, 1-#12, 1-#12	1	EQPT PLTFM LTG		24
25		SALES FLOOR LTG 1	1	1-#8, 1-#8, 1-#8	20 A	L	896 / 162			L	20 A	1-#12, 1-#12, 1-#12	1	EQPT PLTFM LTG EM		26
27		SALES FLOOR LTG 2	1	1-#8, 1-#8, 1-#8	20 A	L		1,008 / 108		L	20 A	1-#12, 1-#12, 1-#12	1	FRONT CANOPY LTG		28
29		SALES FLOOR LTG 3	1	1-#10, 1-#10, 1-#10	20 A	L			1,008 / 190	L	20 A	1-#12, 1-#12, 1-#12	1	FRONT CANOPY LTG		30
31		SALES FLOOR LTG 4	1	1-#8, 1-#8, 1-#8	20 A	L	1,344 / 784			L	20 A	1-#12, 1-#12, 1-#12	1	RECEIVING LTG 1		32
33		SALES FLOOR LTG 5	1	1-#10, 1-#10, 1-#10	20 A	L		753 / 672		L	20 A	1-#12, 1-#12, 1-#12	1	RECEIVING LTG 2		34
35		SPACE	1	--	--	--			0 / 136	L	20 A	1-#12, 1-#12, 1-#12	1	BRK RM HLWY LTG		36
37		SPACE	1	--	--	--	0 / 0			--	--	--	1	SPACE		38
39		SPACE	1	--	--	--		0 / 0		--	--	--	1	SPACE		40
41		SPACE	1	--	--	--			0 / 0	--	--	--	1	SPACE		42
				TOTALS:		**kVA**	7.30 kVA	8.31 kVA	6.48 kVA							
						Amps	62 A	70 A	54 A							
						Load / Phase %	33	38	29							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
L	20314 VA	125.00%	25393 VA		
NC	306 VA	100.00%	306 VA	**Total Conn. Load:**	22.1 kVA
C	1000 VA	125.00%	1250 VA	**Total Est. Demand:**	27.5 kVA
Lighting	166 VA	125.00%	208 VA	**Total Conn. Current:**	61 A
R	300 VA	100.00%	300 VA	**Total Est. Demand Current:**	76 A

LOAD CLASSIFICATIONS	
ABBREVIATION	DESCRIPTION
AC	AIR CONDITIONING AND MECHANICAL EQUIPMENT
C	CONTINUOUS
H	HEATING EQUIPMENT
K	KITCHEN EQUIPMENT
L	LIGHTING
NC	NON-CONTINUOUS
R	RECEPTACLES
REF	REFRIGERATION EQUIPMENT

CIRCUIT BREAKER IDENTIFICATION	
ID	DESCRIPTION
G1	5mA GFCI TYPE BREAKER
G2	30mA GFCI TYPE BREAKER
LB	LOCKABLE BREAKER
FA	FIRE ALARM CIRCUIT SHALL BE OF LOCKABLE BREAKER TYPE AND LABELED AS, "FIRE ALARM CIRCUIT", WITH RED IDENTIFICATION AND SECURED IN THE "ON" POSITION, PER ARTICLE 760 OF THE NEC.
ST	SHUNT-TRIP BREAKER
LSI	LSI ADJUSTABLE TRIP BREAKER
IG	ISOLATED GROUND

REMODELS ONLY

ID	DESCRIPTION
N	NEW BREAKER
EX	EXISTING BREAKER

www.greenbergfarrow.com
30 Executive Park
Suite 100
Irvine, CA 92614
t: 949 296 0450

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PROJECT TEAM

CoolSys | ENERGY DESIGN CONSULTING ENGINEERS
4275 N. Palm Street, Suite 100
Fullerton, CA 92835
(714) 578-2300 office
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ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER 97558PE OREGON DEC 31, 2026 REZA NOROUZI

PROFESSIONAL IN CHARGE
RN
PROJECT MANAGER
GH
QUALITY CONTROL
RN
DRAWN BY
AE

PROJECT NAME

CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24 - CA140 - 01

SHEET TITLE

ELECTRICAL PANEL SCHEDULES

SHEET NUMBER

E6-02

Last Modified: 2/24/2025 1:58:35 PM Drawing Name: Autodesk Docs://Grocery Outlet - Central Point, OR (0003) 11120_Central Point OR_MEPR_R23.rvt

COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: GO Central Point, OR
Project Type: New Construction

Construction Site:
4951 BIDDLE RD
CENTRAL POINT, Oregon 97502

Owner/Agent:
GROCERY OUTLET INC.
5650 HOLLIS ST.
EMERYVILLE, California 94608

Designer/Contractor:
Kegan Loke
Coolsys Energy Design
4275 N. Palm St.,
Fullerton, California 92835
7145782300
kegan.loke@coolsys.com

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-SALES FLOOR (Retail)	15518	0.84	13035
		Total Allowed Watts =	13035

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-SALES FLOOR (Retail)				
LED: A1: 4' HIGHBAY, 15,000LM, TWO DRIVE: LED Other Fixture Unit 60W:	1	61	112	6832
LED: A2: 4' HIGHBAY, 15,000LM, TWO DRIVE: LED Other Fixture Unit 103W:	1	21	112	2352
LED: B1: 4' HIGHBAY, 15,000LM, TWO DRIVE: LED Other Fixture Unit 103W:	1	13	112	1456
LED: B2: 4' HIGHBAY, 15,000LM, TWO DRIVE: LED Other Fixture Unit 103W:	1	6	112	672
LED: C1: 4' NARROW STRIP, 4000LM, 40K, O: LED Other Fixture Unit 28W:	1	7	33	231
LED: C2: 4' NARROW STRIP, 4000LM, 40K, O: LED Other Fixture Unit 28W:	1	5	33	165
LED: C4: 8' NARROW STRIP, 8000LM, 40K, O: LED Other Fixture Unit 60W:	1	3	70	210
LED: D1: 4' HIGHBAY, 10,000LM, ONE DRIVE: LED Other Fixture Unit 80W:	1	3	81	243
LED: D1: 4' HIGHBAY, 10,000LM, ONE DRIVE: LED Other Fixture Unit 80W:	1	2	81	162
LED: V1: 4' VAPORTIGHT, 4000LM, ONE DRIV: LED Other Fixture Unit 28W:	1	6	34	204
LED: V2: 4' VAPORTIGHT, 4000LM, ONE DRIV: LED Other Fixture Unit 28W:	1	3	34	102
LED: V4: 8' VAPORTIGHT, 8000LM, ONE DRIV: LED Other Fixture Unit 80W:	1	1	85	85
LED: X1: DIE-CAST EM, 1 FACE, WHITE W/ G: LED Other Fixture Unit 6.5W:	1	8	4	32
LED: X2: DIE-CAST EM, 2 FACE, WHITE W/ G: LED Other Fixture Unit 6.5W:	1	2	4	8
LED: E2: 2x4 TROFFER 4000LM W 10% EMERGE: LED Panel 40W:	1	1	40	40
			Total Proposed Watts =	12794

Interior Lighting PASSES: Design 2% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kegan Loke - Electrical Designer — Name - Title
Signature
02/24/2025 — Date

COM*check* Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: GO Central Point, OR
Project Type: New Construction
Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site:
4951 BIDDLE RD
CENTRAL POINT, Oregon 97502

Owner/Agent:
GROCERY OUTLET INC.
5650 HOLLIS ST.
EMERYVILLE, California 94608

Designer/Contractor:
Kegan Loke
Coolsys Energy Design
4275 N. Palm St.,
Fullerton, California 92835
7145782300
kegan.loke@coolsys.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
PARKING LOT (Parking area)	165774 ft2	0.04	Yes	6631
			Total Tradable Watts (a) =	6631
			Total Allowed Watts =	6631
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
PARKING LOT (Parking area, 165774 ft2): Tradable Wattage				
LED: CY: LED SURFACE MOUNTED CANOPY, 378: LED Other Fixture Unit 25W:	1	4	27	108
LED: CY1: LED SURFACE MOUNTED CANOPY, 330: LED Other Fixture Unit 16W:	1	4	22	88
LED: P1-T4: (1) AREA LIGHTER/ ACUITY / RSX2: LED Roadway-Parking Unit 67W:	1	2	72	144
LED: P2-T4: (1) AREA LIGHTER/ ACUITY / RSX2: LED Roadway-Parking Unit 67W:	1	1	72	72
LED: P2-T5: (1) AREA LIGHTER/ ACUITY / RSX2: LED Other Fixture Unit 60W:	1	8	72	576
LED: R15: RECESSED RETROFIT DOWNLIGHT- AP: LED Other Fixture Unit 60W:	1	10	19	190
LED: WP1: LED EXTERIOR WALL PACK, 3213LM,: LED Other Fixture Unit 16W:	1	5	23	115
LED: WP2-T3: EXTERIOR WALL PACK, 7524LM, 70C: LED Other Fixture Unit 50W:	1	2	51	102
LED: WP2-T4: EXTERIOR WALL PACK, 7753LM, 70C: LED Other Fixture Unit 50W:	1	5	51	255
LED: XE: TWIN HEAD EMERGENCY LIGHT FIXTU: LED Other Fixture Unit 6.5W:	1	4	3	12
			Total Tradable Proposed Watts =	1662

Exterior Lighting PASSES: Design 76% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kegan Loke - Electrical Designer — Name - Title
Signature
02/24/2025 — Date

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 95.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions, Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.2, C405.2.2.1 [EL21][1]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.7 [EL28][1]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.5.1 [FI19][3]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.1.1 [FI57][3]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][3]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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97558PE
OREGON
DEC. 31, 2025
REZA NOROUZI

PROFESSIONAL IN CHARGE
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PROJECT MANAGER
GH
QUALITY CONTROL
RN
DRAWN BY
AE

PROJECT NAME

CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

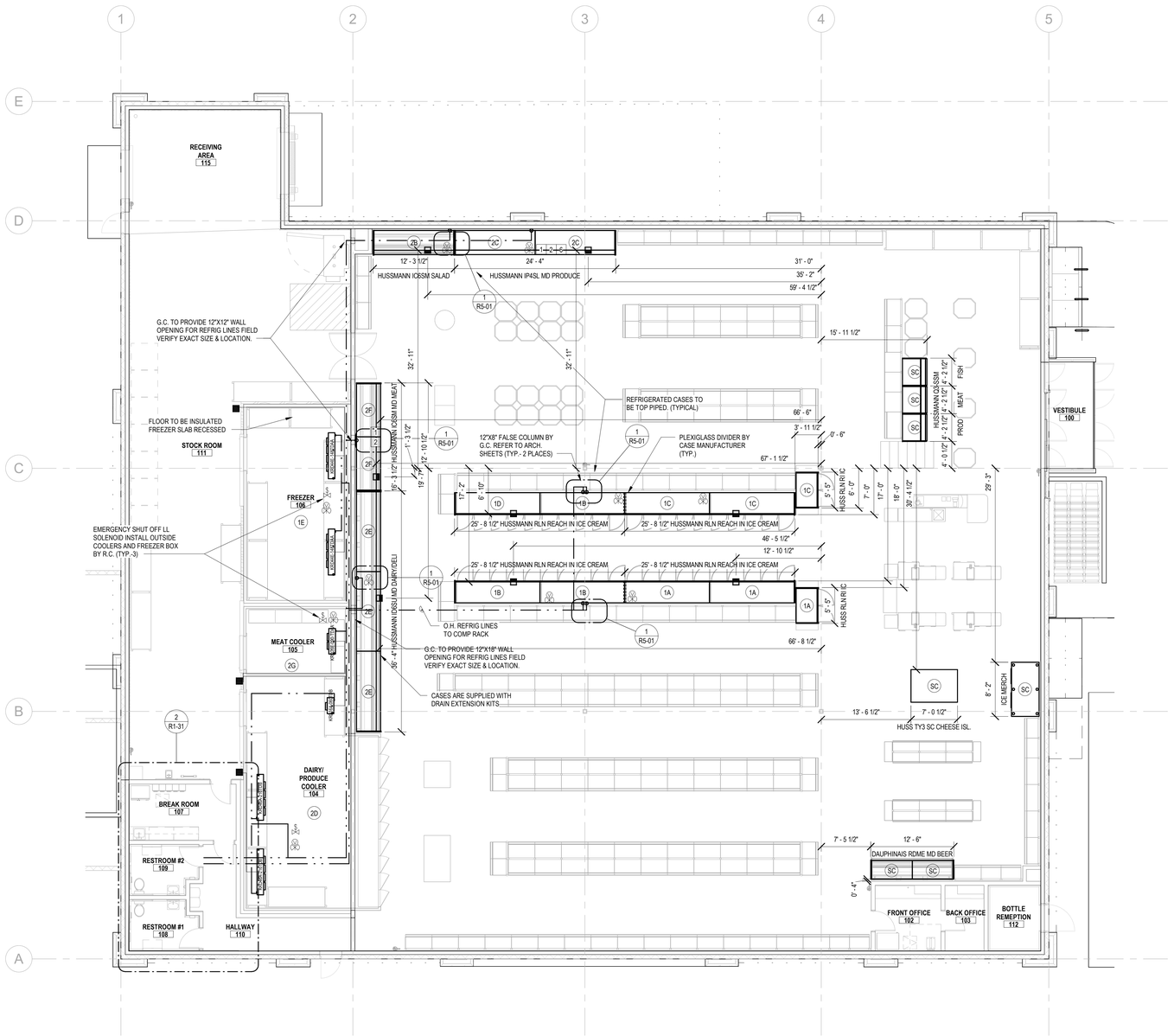
SHEET TITLE

ENERGY COMPLIANCE FORMS

SHEET NUMBER

E7-01

Last Modified:2/24/2025 1:59:31 PM Drawing Name:Autodesk Docs://Grocery Outlet - Central Point, OR (0060) TI\GO_Central Point OR_MEPR_R23.rvt



1 / R1-01 REFRIGERATION FLOOR PLAN
SCALE: 1/8" = 1'-0"

CODES AND REGULATIONS

2022 Oregon Structural Specialty Code (OSSC)
2021 Oregon Energy Efficiency Specialty Code (OEESC)
2023 Oregon Electrical Specialty Code (OESC)
2022 Oregon Mechanical Specialty Code (OMSC)
2023 Oregon Plumbing Specialty Code (OPSC)

ALL WORK PERFORMED MUST BE IN COMPLIANCE WITH THE ABOVE CODES AND LOCAL AMENDMENTS

PIPING SCHEDULE

SYS. NO.	EST. LENGTH **	SUCTION	RISER*	LIQUID
1A-E	55	2 1/8	1 5/8	5/8
1E	25	1 3/8	1 3/8	3/8
1A-D	35	1 5/8		5/8
1A,B	5	1 3/8		1/2
1A	30	1 1/8	1 1/8	3/8
1B	25	7/8	7/8	3/8
1C,D	20	1 3/8		1/2
1C	45	1 1/8	1 1/8	3/8
1D	25	7/8	7/8	3/8
2B-G	20	2 1/8	2 1/8	7/8
2D	20	1 3/8	1 3/8	1/2
2B-C,E-G	10	2 1/8		7/8
2B,C,E-G	30	2 1/8		7/8
2G	10	5/8	5/8	3/8
2B,C,E,F	5	2 1/8		7/8
2E	20	1 3/8	1 3/8	5/8
2B,C,F	25	1 5/8		5/8
2F	20	7/8	7/8	1/2
2B,C	45	1 3/8		5/8
2B	20	7/8	7/8	1/2
2C	30	1 1/8	1 1/8	1/2

* RISER SIZE IS SHOWN EVEN WHERE A RISER IS NOT EXPECTED. THIS IS FOR REFERENCE ONLY AND TO BE USED IN THE EVENT THAT A PIPING CONFLICT CAUSES A NEED FOR A RISER. TWO LISTED SIZES INDICATES A DOUBLE SUCTION RISER.
** ESTIMATED LENGTH INCLUDES HORIZONTAL AND VERTICAL PIPE SECTIONS. THIS IS ONLY AN ESTIMATE AND ACTUAL LENGTH MAY VARY.

NOTE: REFRIGERANT-VAPOR DETECTION AND ALARM SYSTEM LOCATIONS, OTHER THAN THE EQUIPMENT AREA, SHALL AUTOMATICALLY STOP THE FLOW OF REFRIGERANT IN ALL SUPPLY LINES LEAVING THE COMPRESSOR RACK WHENEVER THE REFRIGERANT VAPOR CONCENTRATION IS AT OR ABOVE THE 50% OF THE "IDLH" OR 25% OF THE "LFL" LEVEL.

NOTE: THE REFRIGERANT-VAPOR DETECTION SYSTEM'S ALARM SHALL BE ACTIVATED WITHIN THE SPACE WHENEVER THE REFRIGERANT VAPOR "OEL" LEVEL IS EXCEEDED.

NOTE: REFRIGERANT CONTAINING PARTS OF A SYSTEM THAT IS FIELD-ERECTED, SHALL BE TESTED AND PROVED TIGHT AFTER COMPLETE INSTALLATION AND BEFORE OPERATION.

STROBE/HORN SIGNALING DEVICE SPECS.
HORN AND STROBE UNIT UL 1638 LISTED.
15 DB HIGHER THAN AMBIENT NOISE LEVEL @ 101.0 (IWIM)

REFRIGERANT PLACARDS (IF APPLICABLE)

EMERGENCY PLACARDS TO BE LOCATED AT MONITORED AREAS

- PROVIDE HAZARD SIGN.
- "EMERGENCY CONTACT" SIGN
- "ACCESS TO REFRIGERATION EQUIPMENT LIMITED TO AUTHORIZED PERSONNEL ONLY" (5/8" TEXT) BLACK TEXT ON WHITE BACKGROUND.
- "ALARM SIGNAL INDICATES REFRIGERANT LEAK DETECTED. EVACUATE MONITORED AREA IMMEDIATELY AND NOTIFY STORE MANAGER" WHITE TEXT ON BLUE BACKGROUND"

REFRIGERATION SHEET INDEX

Sheet Number	Sheet Name
R1-01	FIXTURE, REFRIGERATION & PLUMBING FLOOR PLAN
R1-21	ELECTRICAL & EMS FLOOR PLAN
R1-31	EQUIPMENT LOCATION & PARTIAL ROOF PLAN
R5-01	REFRIGERATION INSTALLATION DETAILS
R5-21	REFRIGERATION CASE DETAILS
R5-31	REFRIGERATION EQUIPMENT & TYP. ELEVATION DETAILS
R6-01	REFRIGERATION SCHEDULE
R6-21	ELEC REQUIREMENTS SCHEDULE & DEFROST SCHEMES
R8-01	ENERGY MANAGEMENT LAYOUT & POINT ASSIGNMENTS
R8-02	ENERGY MANAGEMENT WIRING DIAGRAMS
R8-21	REFRIGERATION PLACARDS

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. ALL SERVICE LOCATION DIMENSIONS TAKEN FROM INSIDE FACE OF BLOCK WALL (NEW STORE), OR INSIDE FACE OF FINISH WALL (REMODEL) AND CENTERLINE OF COLUMNS TO CENTER OF ALL UNDERGROUND SERVICES.
3. REFER TO REFRIGERATION INSTALLATION DETAILS SHEET FOR INSTALLATION PROCEDURES AND REQUIREMENTS.
4. REFER TO REFRIGERATION EQUIPMENT DETAILS SHEET FOR FIXTURE DIMENSIONS AND SERVICE LOCATIONS.
5. ALARM CONTRACTOR TO MAKE FINAL CONNECTIONS FROM CONTROL PANEL.
6. THE TIE IN FROM THE CONTROL PANEL TO THE ALARM PANEL SHALL BE INCLUDED ON THE FIRE ALARM PLANS. IF NOT THE FIRE ALARM CONTRACTOR SHALL SUBMIT PLANS TO FIRE PLAN CHECK FOR THE ADDITIONAL RELAYS OR MODULES TO SATISFY THIS REQUIREMENT.
7. A REFRIGERANT DETECTION AND ALARM SYSTEM IS REQUIRED.
8. A 6" MINIMUM CLEARANCE IS REQUIRED BETWEEN WALK-IN WALLS AND ADJACENT STRUCTURES.
9. GENERAL CONTRACTOR TO PROVIDE FALSE COLUMN FOR REFRIGERATION AND ELECTRICAL SERVICE WHEN APPLICABLE.
10. WIRE MESH (HARDWARE CLOTH) FROM TOP OF WALK-IN BOXES BY G.C.
11. 2" SPACERS REQUIRED AT DAIRY COOLER REACH-IN DOORS.
12. WALK-IN BOX DOOR ALARM STROBE IS MOUNTED ABOVE THE DOOR ON THE SIDE THAT OPENS, 8'-4" A.F.F. PLACARD LOCATED TO THE LEFT OR RIGHT OF LIGHT.
13. WALK-IN BOX LEAK ALARM STROBE/SIREN AND WARNING PLACARDS TO BE CENTERED ABOVE DOOR. IF NO DOOR, MOUNT NEXT TO ALARM LIGHT(S) OR LOCATION DIRECTED BY LOCAL JURISDICTION.
14. MRLDS LEAK SENSORS TO BE MOUNTED BEHIND COOLER AND FREEZER EVAPORATOR COILS AT DRAIN PAN HEIGHT.
15. CODE COMPLIANCE IS MANDATORY. NOTHING IN THESE DRAWINGS PERMITS WORK NOT CONFORMING TO THESE CODES. WHERE WORK IS SHOWN TO EXCEED MINIMUM CODE REQUIREMENTS, COMPLY WITH DRAWINGS. ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST RULES, CODES, AND REGULATIONS.
16. DIMENSIONING NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AND IN COORDINATION WITH ALL MANUFACTURER CUT SHEETS AND SUBMITTALS PRIOR TO ROUGH-IN. RFI'S SHALL BE ISSUED IF ANY DISCREPANCIES ARE FOUND. IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLAN DIMENSIONS AND THE FIELD CONDITION OR MANUFACTURER DATA THAT ARE NOT RAISED PRIOR TO CONSTRUCTION, CONTRACTOR IS PROCEEDING AT ITS OWN RISK AND SHALL BE RESPONSIBLE FOR THE COST OF ANY CHANGES.
17. ALL CASE AND WALK-IN BOX CLOSE OFF BY G.C.
18. R.C. TO P-TOUCH LABEL EACH CASE AND IDENTIFY BOTH THE CASE NUMBER & SYSTEM IN THE LOWER LEFT CORNER ON THE FACE OF THE UNIT, IN A CONTINUOUS SEQUENCE FROM LEFT TO RIGHT.

PLUMBING LEGEND

NOTE:
R.C. TO PROVIDE AND INSTALL CONDENSATE DRAIN LINES (MAXIMUM OF 3 DRAIN LINES PER FLOOR SINK, MAXIMUM LINE RUN OF 15' EACH). R.C. TO PROVIDE PVC FOR UNDER CASE DRAINS AND COPPER FOR WALK-IN DRAINS, UNLESS OTHERWISE SPECIFIED.

FOR FREEZER COILS - R.C. TO PIPE CONDENSATE DRAIN LINES (USE SHORTEST POSSIBLE LINE RUN)

FOR NEW STORES - G.C. TO PROVIDE 24" X 24" BLOCKOUTS, FOR FLOOR SINKS.

SEE SHEET R8-31, 32, 33 FOR MECHANICAL FIXTURE CONDENSATION SYSTEM (IF APPLICABLE)

- 12"x12" FLOOR SINK(S), 1/2 EXPOSED WITH 1/2 GRATE COVER. P.C. TO PROVIDE AND SET FLUSH WITH FINISH FLOOR.
- 12"X12" FLOOR SINK(S), WITH FULL GRATE COVER. P.C. TO PROVIDE AND SET FLUSH WITH FINISH FLOOR.

REFRIG. PLUMBING KEY NOTES (WHERE APPLICABLE)

1 - P.C. TO PROVIDE AND INSTALL 1/2" COLD WATER SUPPLY STUB-UP WITH SHUT-OFF VALVE, HAMMER ARRESTOR, AND ALL NECESSARY TUBING, ETC., FROM STUB-UP TO HOSE REELS/HOSE DISCONNECTS FOR PRODUCE AND MEAT CASES.

2 - P.C. TO PROVIDE AND INSTALL SHUT-OFF VALVE FOR WATER LINES UNDER PRODUCE AND MEAT CASES. AN ADDITIONAL SHUT-OFF VALVE SHALL BE LOCATED AT BACK OF HOUSE AT 6'-6" ABOVE FINISH FLOOR. P.C. TO ALSO PROVIDE A REGULATING VALVE ASSEMBLY IF WATER PRESSURE EXCEEDS 20 P.S.I.G.

3 - FOR CASES WITH UNDER AIR RETURN, R.C. TO PROVIDE AND INSTALL COPPER DRAIN LINES.

4 - FOR EVAC CONDENSATE DRAIN SYSTEMS, P.C. TO DRAIN TO AN APPROVED RECEPTACLE.

5 - P.C. TO PROVIDE AND INSTALL WATER SUPPLY AND HOSE BIB WITHIN 10' OF AIR COOLED CONDENSER.(VERIFY LOCATION WITH R.C.)

6 - R.C. TO INSTALL CUSTOMER SUPPLIED PRODUCE MISTING SYSTEM. TUBING SHALL BE FASTENED TIGHT TO HELP PREVENT MOVEMENT OF TUBING. MOUNT SPRAY BAR ON THE OUTSIDE OF THE AIR CURTAIN AND CLAMP EVERY 12 INCHES.

7 - P.C. TO PROVIDE AND INSTALL COLD WATER SUPPLY AND HOSE BIB BY MOP SINK.

REFRIGERATION LEGEND

- OVERHEAD REFRIGERATION LINES BY R.C.
- SOLENOID VALVE, PROVIDED BY RACK MANUFACTURER, INSTALLED BY R.C., WIRED BY E.C.
- ORIT VALVE, PROVIDED BY RACK MANUFACTURER, INSTALLED BY R.C.
- FALSE COLUMN
- EPR (EVAPORATOR PRESSURE REGULATOR) VALVE W/SOLENOID, PROVIDED BY RACK MANUFACTURER, INSTALLED BY R.C., WIRED BY E.C.
- EEPR (ELECTRONIC EVAPORATOR PRESSURE REGULATOR) VALVE, PROVIDED BY RACK MANUFACTURER, INSTALLED BY R.C., WIRED BY E.C.
- EEV (ELECTRONIC EXPANSION VALVE), PROVIDED BY RACK MANUFACTURER, INSTALLED BY R.C., WIRED BY E.C.

NOTES:
1. R.C. TO PROVIDE DRAIN PAN UNDER ALL VALVE STATIONS, FIELD VERIFY SIZE.
2. REFER TO STRUCTURAL PLANS FOR ANCHORING DETAILS
3. E.C. TO REFER TO INSTALLATION DETAILS SHEET AND OR COORDINATE WITH R.C. TO VERIFY EXACT LOCATION & PROCEDURES.

GENERAL LEGEND

- # - SYSTEM NUMBER
- # - NEW REFRIGERATED CASE
- # - REFRIGERATED CASE (SEE FIXTURE STATUS BELOW)
- MODEL# - EVAPORATOR COIL (CEILING MOUNTED) (SEE FIXTURE STATUS BELOW)
- A - G.C. TO PROVIDE ACCESS TO TOP OF CASE FOR AMBIENT FAN. INSPECTION AND SERVICE.
- F - G.C. TO PROVIDE AND INSTALL FURRING WHERE REQUIRED, AND CUT/FRAME ALL OPENINGS IN WALLS AND FLOORS AS SPECIFIED BY REFRIGERATION CONTRACTOR.

RESPONSIBILITY

G.C. - GENERAL CONTRACTOR
P.C. - PLUMBING CONTRACTOR
R.C. - REFRIGERATION CONTRACTOR
R.E.C. - REFRIGERATION ELECTRICAL CONTRACTOR
E.C. - ELECTRICAL CONTRACTOR
E.M.C. - ENERGY MANAGEMENT CONTRACTOR
R.M. - RACK MANUFACTURER

FIXTURE STATUS (REMODELS ONLY)

E) - EXISTING
M) - MODIFIED
R) - RELOCATED
S) - SURPLUS
U) - USED

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PROJECT MANAGER
CH
QUALITY CONTROL
JV
DRAWN BY
JV

PROJECT NAME

CENTRAL POINT, OR

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

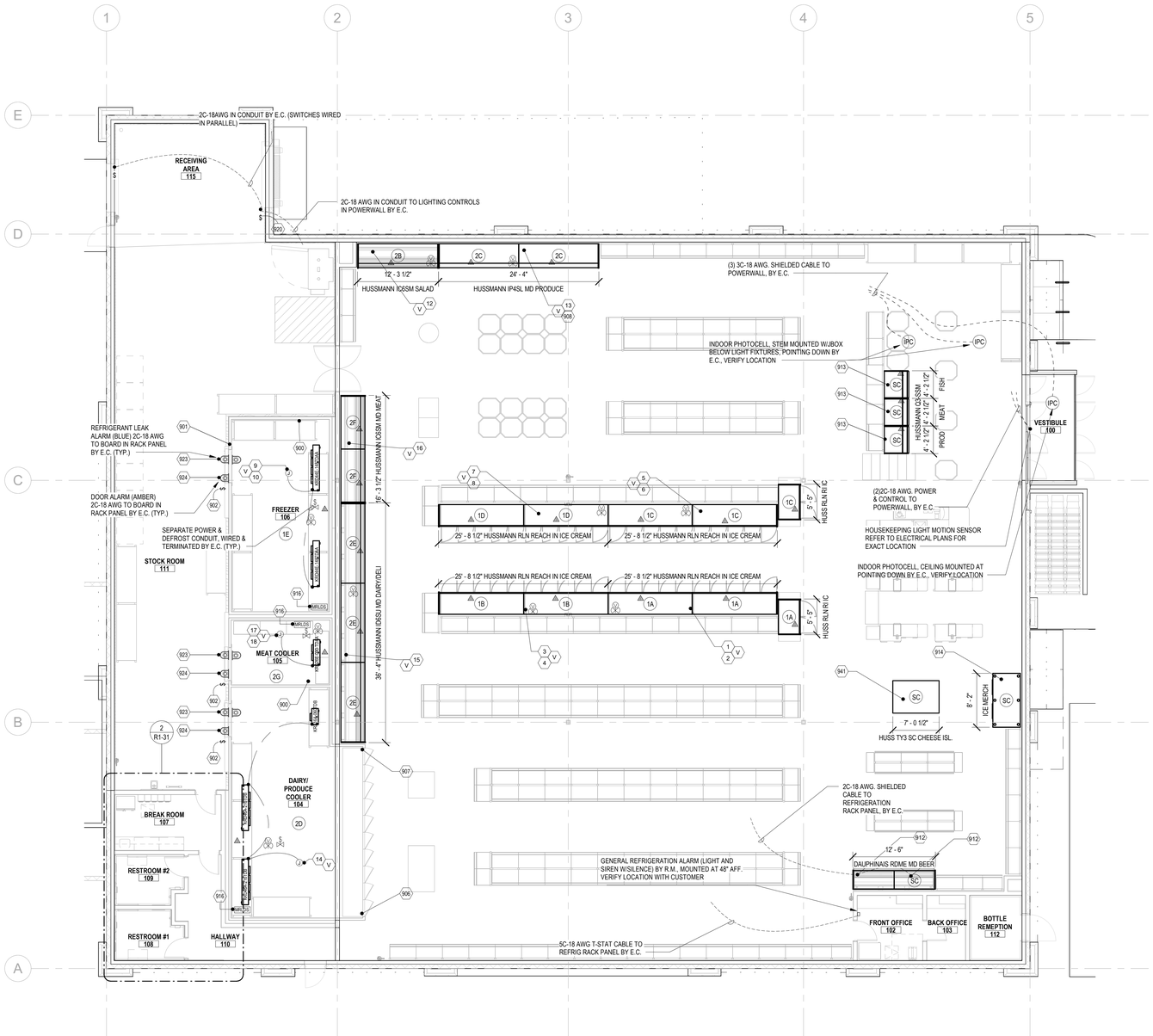
SHEET TITLE

FIXTURE, REFRIGERATION & PLUMBING FLOOR PLAN

SHEET NUMBER

R1-01

Last Modified: 2/24/2025 12:47:27 PM Drawing Name:Autodesk Docs://Dickeys Outlet - Central Point, OR (0000) 1/JOL_Central Point, OR_MEP&_R22.rvt



1 / R1-21 REFRIGERATION ELECT. & EMS FLOOR PLAN

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

ELECTRICAL LEGEND

- ● - ELECTRICAL CONDUIT STUB-UP LOCATION, PROVIDED, INSTALLED AND WIRED BY E.C.
- J - J-BOX, PROVIDED, INSTALLED AND WIRED BY E.C.
- $ - DOOR SWITCH, PROVIDED BY R.M., INSTALLED BY R.C., WIRED BY E.C. (SWITCH CLOSED WHEN DOOR IS CLOSED)
- (#) - ELECTRICAL CALLOUT ITEM NUMBER. (SEE ELECTRICAL REQUIREMENTS SCHEDULE SHEET)
- (C) - CONTROL WIRES REQUIRED TO THIS LOCATION, PROVIDED, INSTALLED BY E.C. (SEE ELECTRICAL REQUIREMENTS SCHEDULE SHEET)
- (V) - LOW VOLTAGE CONTROL WIRES REQUIRED TO THIS LOCATION, PROVIDED, INSTALLED BY E.C. (SEE ELECTRICAL REQUIREMENTS SCHEDULE SHEET)
- (FS) - P.C. TO INSTALL WATER SUPPLY FLOW SWITCH. SUPPLIED BY R.M., WIRED BY E.C. (VERIFY LOCATION WITH R.C.
- (T) - T-STAT, PROVIDED, INSTALLED BY R.C.
- ▲ - FIXTURE TEMPERATURE SENSOR - RUN ENERGY MANAGEMENT CABLE IN SEPARATE CONDUIT (FOR LOW VOLTAGE TEMPERATURE SENSOR) FROM EACH SENSOR TO RACK PANEL. PROVIDED, INSTALLED BY E.C. CABLE TYPE 2C-18 AWG SHIELDED CABLE. SEE INSTALLATION DETAIL & COORDINATE W/R.C. FOR EXACT LOCATION.
- (PC) - PHOTOCELL ON THE ROOF (FACING NORTH) PROVIDED BY R.M., INSTALLED BY R.C., WIRED BY E.C.
- (IPC) - INDOOR PHOTOCELL - PROVIDED BY R.M., MOUNTED BY R.C., SUPPORT ROD BY G.C., WIRED BY E.C.
- (RH) - OUTSIDE HUMIDITY SENSOR - PROVIDED BY R.M., INSTALLED BY R.C., WIRED BY E.C.
- SOLENOID VALVE, PROVIDED BY R.M., INSTALLED BY R.C., WIRED BY E.C.
- EEPR VALVE, PROVIDED BY R.M., INSTALLED BY R.C. WIRED BY E.C.
- VFD - VARIABLE FREQUENCY DRIVE PRE-MOUNTED ON RACK.
- TS - TEMPERATURE SENSOR PRE MOUNTED ON RACK
- MRLDS - MODULAR REFRIGERANT LEAK DETECTION SENSOR - SUPPLIED BY R.M., INSTALLED BY R.C., WIRED BY E.C.
- LEAK DETECTION/AUDIBLE/VISUAL SIGNAL SIREN/STROBE - SUPPLIED BY R.M., INSTALLED BY R.C., WIRED BY E.C.
- BREAK GLASS SWITCH (IF APPLICABLE) - PROVIDED BY R.M., INSTALLED BY R.C., WIRED BY E.C.
- (R G) - EMERGENCY VENTILATION INDICATOR LAMPS (IF APPLICABLE) - PROVIDED BY R.M., INSTALLED BY R.C., WIRED BY E.C.
- SEPARATE POWER & DEFROST CONDUIT, WIRED & TERMINATED BY E.C.
- FIELD WIRING BY E.C.
- (T) - SPACE TEMPERATURE SENSOR. PROVIDED BY R.M.., INSTALLED BY R.C., WIRED BY E.C.

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PROJECT NUMBER
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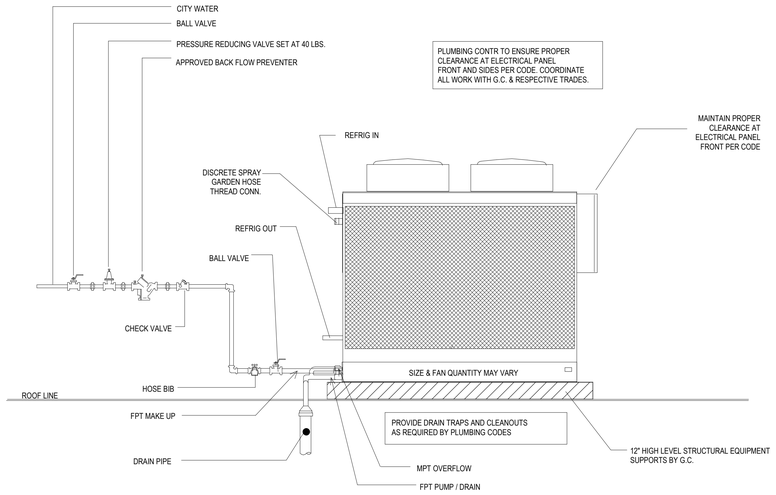
SHEET TITLE

ELECTRICAL & EMS FLOOR PLAN

SHEET NUMBER

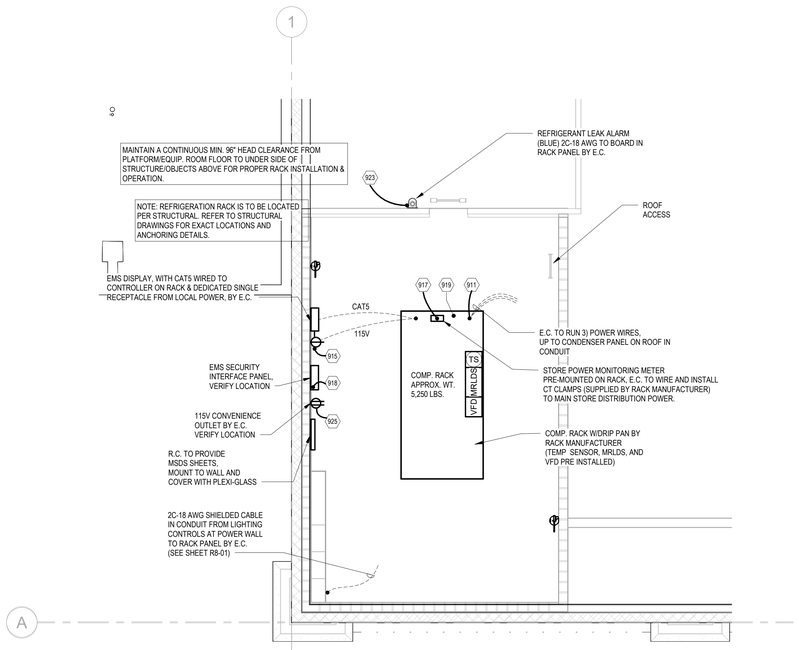
R1-21

Last Modified 2/26/2025 12:47:29 PM Drawing Name:Autodesk Docs://Dockey Outlet - Central Point, OR (0000) 1\OCL_Central Point OR_24CPR_R23.rvt

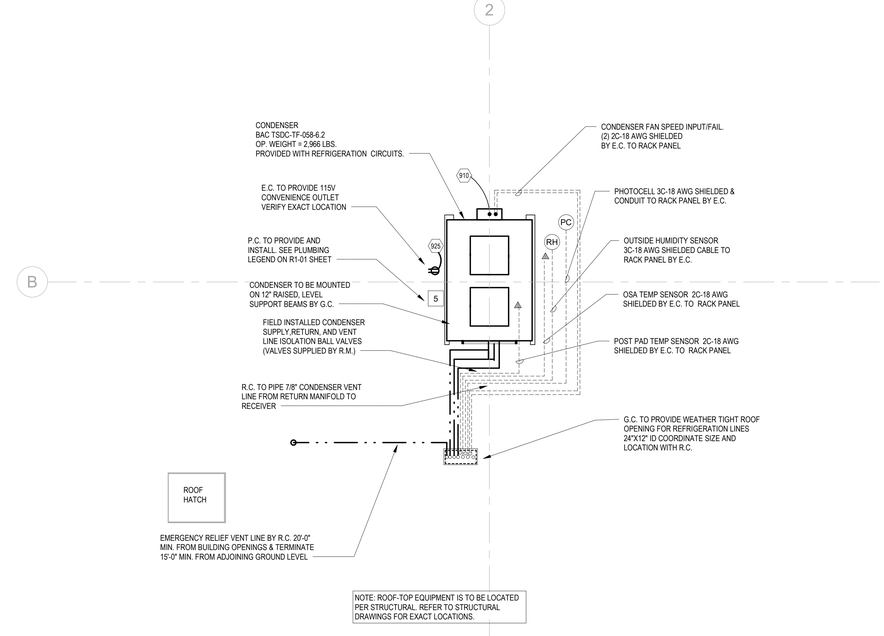


1. ALL WORK SHOWN IS TO BE BY PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE, AND SHALL COMPLY WITH STATE & LOCAL PLUMBING CODES.
2. THE CITY WATER IS CONNECTED TO MAKE UP WATER

1 / R1-31 R1-31 BAC (TRILLIUM) WATER PIPING DETAIL



2 / R1-31 REFRIGERATION PLATFORM PLAN
SCALE: 1/4" = 1'-0"



3 / R1-31 REFRIGERATION PARTIAL ROOF PLAN
SCALE: 1/4" = 1'-0"

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PROJECT NUMBER
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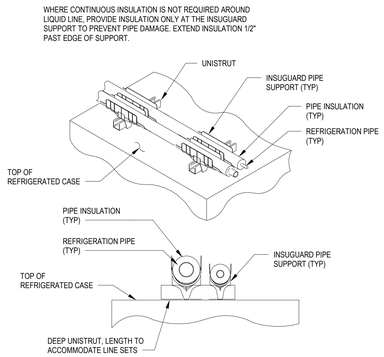
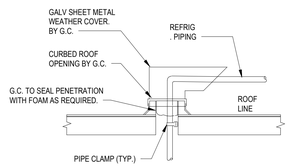
SHEET TITLE
EQUIPMENT LOCATION & PARTIAL ROOF PLAN

SHEET NUMBER
R1-31

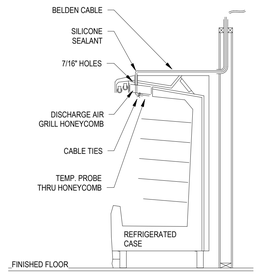
Last Modified:2/26/2025 12:47:30 PM Drawing Name:Autodesk Docs://Dookey Outlet - Central Point, OR (0003) 1\02_Central Point_OR_MEP&_R22.rvt



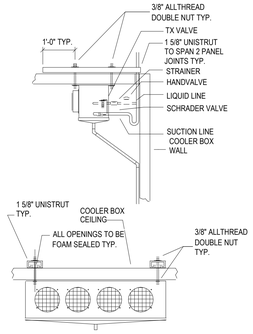
1 R5-01 TOP OF CASE PIPING SUPPORT DETAIL
NOT TO SCALE



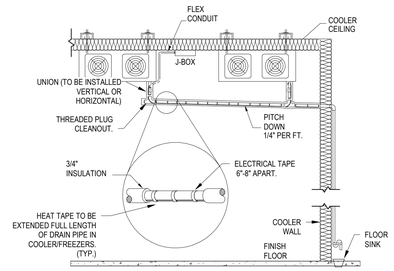
2 R5-01 WEATHER CAP FOR REFRIG. LINES
NOT TO SCALE



3 R5-01 CASE PROBE LOCATION DETAIL
NOT TO SCALE



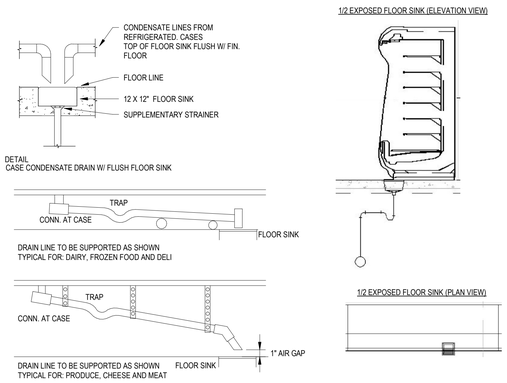
4 R5-01 EVAP COIL INSTALLATION DETAIL
NOT TO SCALE



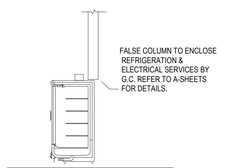
FREEZER/COOLER COIL HEAT TAPE & DRAIN INSTALLATION DETAIL

NOTES:
1. HEAT TAPE, SELF LIMITING TYPE FOR FREEZE PROTECTION, 4 WATT/FT., 120V.
2. INSULATION TO BE SUPPLIED AND INSTALLED BY REFRIGERATION CONTRACTOR.
3. USE IN ALL FREEZERS AND MEAT COOLERS.
4. HEAT TAPE SUPPLIED & INSTALLED BY REFRIGERATION CONTRACTOR.
5. FINAL ELECTRICAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
6. REFRIGERATION CONTRACTOR SHALL SEAL ALL PENETRATIONS.

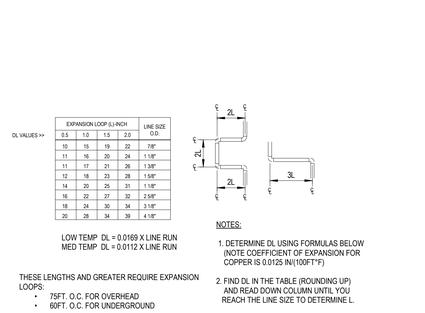
5 R5-01 HEAT TAPE INSTALLATION DETAIL
NOT TO SCALE



6 R5-01 CASE DRAIN CONNECTION DETAILS
NOT TO SCALE



7 R5-01 REF. COLUMN SCHEMATIC
NOT TO SCALE



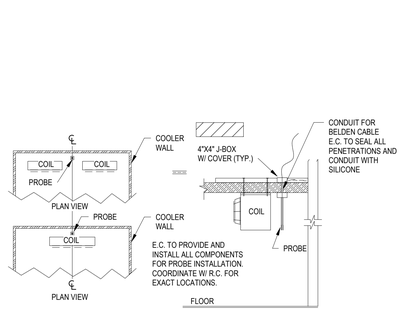
DL VALUES >>	EXPANSION LOOP (L) INCH				LINE SIZE O.D.
	0.5	1.0	1.5	2.0	
10	15	19	22	7/8"
11	16	20	24	1 1/8"
11	17	21	26	1 3/8"
12	18	23	28	1 5/8"
14	20	25	31	1 1/8"
16	22	27	32	2 5/8"
18	24	30	34	3 1/8"
20	28	34	39	4 1/8"

LOW TEMP DL = 0.0169 X LINE RUN
MED TEMP DL = 0.0112 X LINE RUN

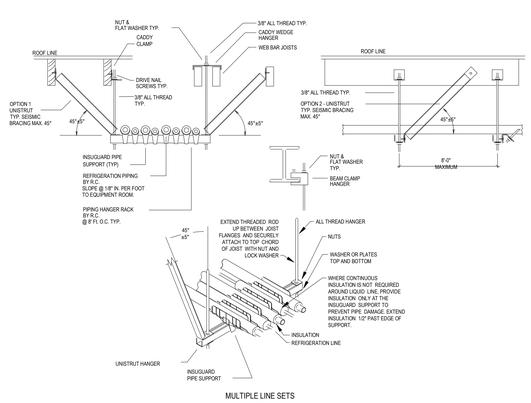
THESE LENGTHS AND GREATER REQUIRE EXPANSION LOOPS:
- 75FT. O.C. FOR OVERHEAD
- 60FT. O.C. FOR UNDERGROUND

NOTES:
1. DETERMINE DL USING FORMULAS BELOW (NOTE COEFFICIENT OF EXPANSION FOR COPPER IS 0.0125 IN/(100FT°F)
2. FIND DL IN THE TABLE (ROUNDING UP) AND READ DOWN COLUMN UNTIL YOU REACH THE LINE SIZE TO DETERMINE L.

8 R5-01 EXPANSION LOOP/OFFSET DETAIL
NOT TO SCALE

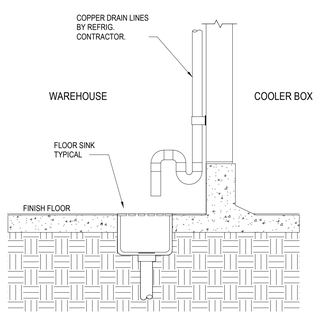


9 R5-01 FREEZER/COOLER PROBE LOCATION DETAIL
NOT TO SCALE

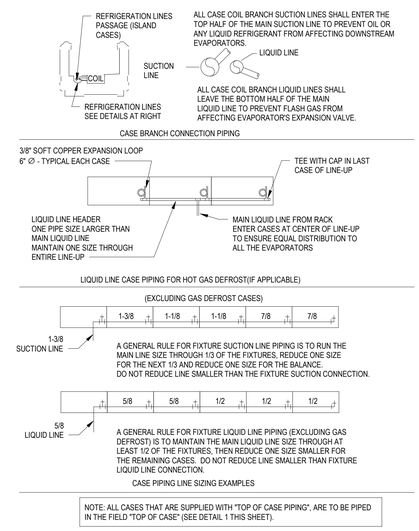


MULTIPLE LINE SETS

10 R5-01 TYPICAL HANGER INSTALLATION & PIPE SUPPORT DETAIL W/SEISMIC RESTRAINTS
NOT TO SCALE



11 R5-01 TYPICAL FLOOR SINK INSTALLATION
NOT TO SCALE



12 R5-01 REFRIGERATION CASE PIPING DETAILS
NOT TO SCALE

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DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER 97558PE OREGON DEC 31, 2026 RENA NOROUZI

PROFESSIONAL IN CHARGE
RN
PROJECT MANAGER
GH
QUALITY CONTROL
JV
DRAWN BY
JV

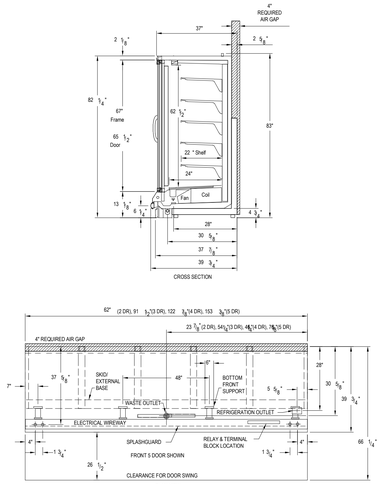
PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

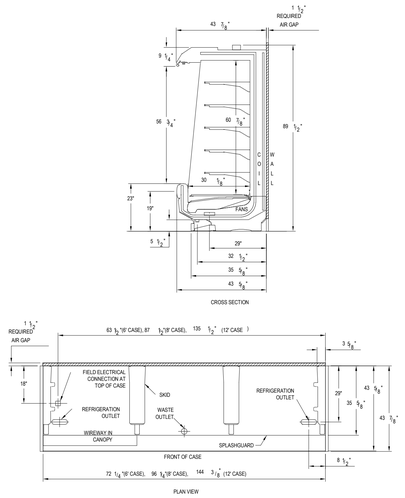
SHEET TITLE
REFRIGERATION INSTALLATION DETAILS

SHEET NUMBER
R5-01

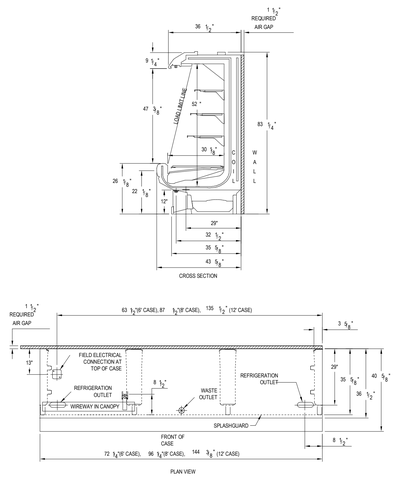
Last Modified: 2/24/2025 12:47:32 PM Drawing Name: Autodesk Docs://Grocery Outlet - Central Point, OR (30000) 1/GO_Central Point, OR_MEP&_R22.rvt



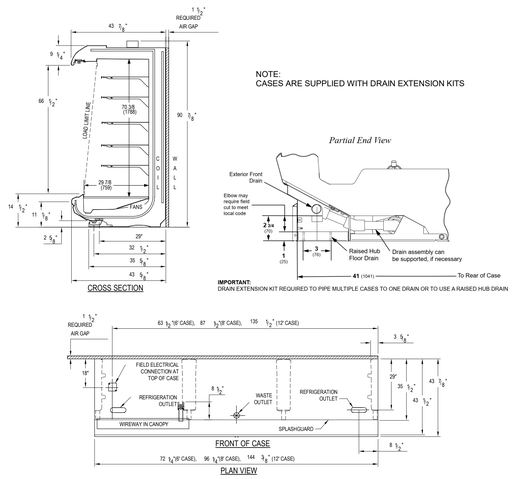
1 R5-21 HUSSMANN (RLN) - NARROW RI IC
NOT TO SCALE



2 R5-21 HUSSMANN IC6SM MD MEAT/SALAD
NOT TO SCALE



3 R5-21 HUSSMANN IP4SL MD PRODUCE
NOT TO SCALE



4 R5-21 HUSSMANN (ID6SU) - MD DAIRY/DELI
NOT TO SCALE

NOTE: ALL "UPRIGHT" CASES WILL BE SUPPLIED WITH 8" VALANCE/FACIA (INSTALLED BY R.C.) FOR TOPS OF CASES. LEAVE 6" CLEAR SPACE BEHIND ALL UPRIGHT CASE VALANCE/FACIA FOR INSTALLATION OF ELECTRIC SIGNAGE. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.

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REGISTERED PROFESSIONAL ENGINEER
97558PE
OREGON
DEC 31, 2026
REZA NOROUZI

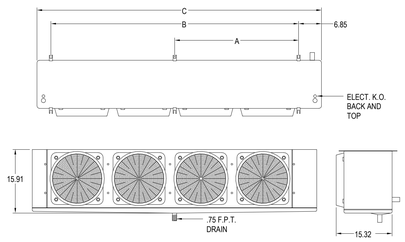
PROFESSIONAL IN CHARGE
RN
PROJECT MANAGER
GH
QUALITY CONTROL
JV
DRAWN BY
JV

PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01
SHEET TITLE
REFRIGERATION CASE DETAILS

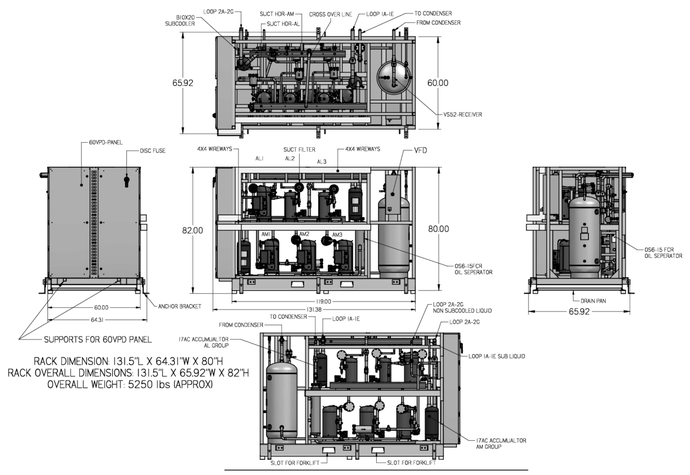
SHEET NUMBER
R5-21

Last Modified: 2/6/2025 12:47:34 PM Drawing Name: Autodesk Docs://Grocery Outlet - Central Point, OR (0000) 1/01_Central Point_OR_MEP&_R22.rvt



COIL MODEL	CFM	NUM. FANS	APPROXIMATE PHYSICAL DIMENSIONS (IN)			CONNECTIONS			APPROX NET WEIGHT
KR			A	B	C	INLET ODF	SUCT ID	DRAIN MPT	
KRD44E-148TDAA	3500	4	36.00	72.00	83.15	1/2	1 1/8	3/4	165
KRD46A-216TDB	3380	4	36.00	72.00	83.15	1/2	1 1/8	3/4	180
KRD16A-060TDB	845	1	-	18.00	29.13	1/2	5/8	3/4	60
KRD26E-090TDAA	1690	2	-	36.00	47.13	1/2	7/8	3/4	100

1 R5-31 LOW PROFILE UNIT COOLER (KRACK)
NOT TO SCALE



2 R5-31 COMPRESSOR RACK DETAIL
NOT TO SCALE

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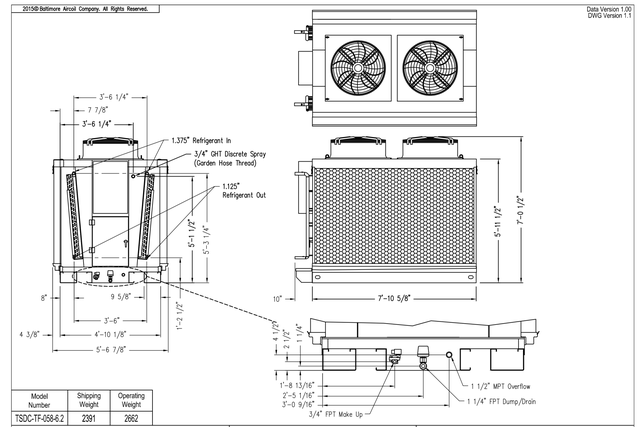
Data Version 1.00
DWG Version 1.1



Model Number	Shipping Weight	Operating Weight
TSDC-TF-058-6.2	2391	2662

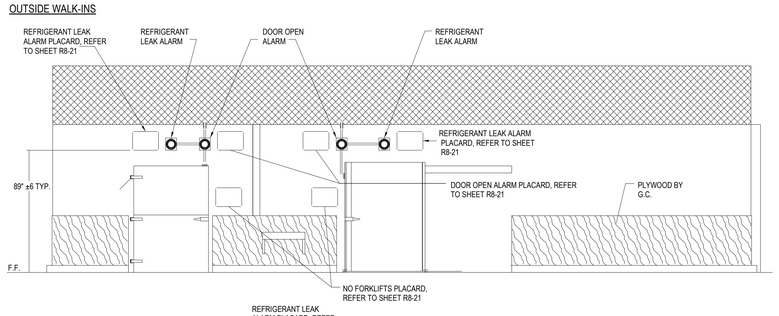
ORDER NO:
DATE:

BALTIMORE AIRCOIL COMPANY

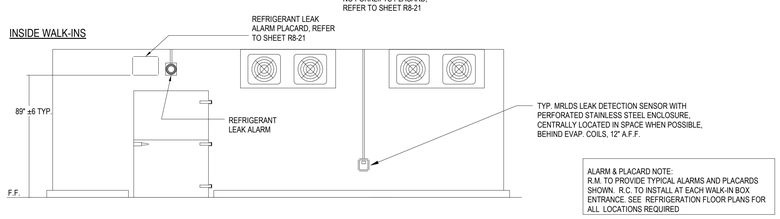
TrilliumSeries™ Condenser
Two Fan Unit Print
DRAWING NUMBER:
UP-TSDC-TF-058-6.2

3 R5-31 CONDENSER (TRILLIUM BAC: TSDC-TF-058-6.2)
NOT TO SCALE

OUTSIDE WALK-INS



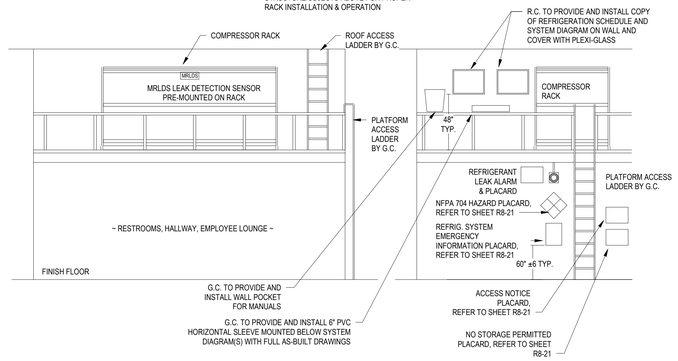
INSIDE WALK-INS



ALARM & PLACARD NOTE:
R.M. TO PROVIDE TYPICAL ALARMS AND PLACARDS SHOWN. R.C. TO INSTALL AT EACH WALK-IN BOX ENTRANCE. SEE REFRIGERATION FLOOR PLANS FOR ALL LOCATIONS REQUIRED

4 R5-31 TYPICAL WALK-IN BOX ELEVATIONS

RACK CLEARANCE NOTE:
MAINTAIN A CONTINUOUS MIN. 96" HEAD CLEARANCE FROM PLATFORM/EQUIP. ROOM FLOOR TO UNDER SIDE OF STRUCTURE/OBJECTS ABOVE FOR PROPER RACK INSTALLATION & OPERATION



5 R5-31 TYPICAL EQUIPMENT PLATFORM ELEVATIONS

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ISSUE/REVISION RECORD

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PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
97558PE
OREGON
DEC 31, 2026
RE'A NORDUA

PROFESSIONAL IN CHARGE
RN
PROJECT MANAGER
GH
QUALITY CONTROL
JV
DRAWN BY
JV

PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE
REFRIGERATION EQUIPMENT & TYP. ELEVATION DETAILS

SHEET NUMBER
R5-31

Last Modified: 2/24/2025 12:47:36 PM Drawing Name:Autodesk Docs://Dockery Outlet - Central Point, OR (0000) T/02_Central Point, OR_wDFW_R22.rvt

COOLSYS ENERGY DESIGN
4275 N. Palm St., Suite 100
Fullerton, CA 92835
Phone: 714-578-2300

PROJECT NAME: GROCERY OUTLET
Address: 4951 BIDDLE RD
City, State: CENTRAL POINT, OR
Date: 1/20/2025 JIM VANNAN
Revison-1:
Revison-2:
Revison-3:
As-Built:

DESIGN CONDITIONS

INDOOR		OUTDOOR	
DRY BULB °F	75	DRY BULB °F	105
WET BULB °F	64	DESIGN TD (REF)	10
R.H. %	55	WET BULB °F	72
ELEVATION FT	1,309		

COMPRESSOR CAPACITY @ MID TEMP

ELEC. SERV.

MAIN RACK		CONTROL	
	208 V		208 V
3	PH	1	PH
	60 HZ	60	HZ

CONDENSER SELECTION

N) CONDENSER — COND-2

MFGR:	BAC	MFGR:	
MODEL:	TRILLIUM TSDC-TF-058-8-2	MODEL:	
CFM	28,000	CFM	
NO OF CKTS: 17.4	AMP	NO OF CKTS:	
FANS (DATA):	1x2 @ 3.1 Hp = 6.2Hp	FAN (HP):	
OPTIONS: POST PAD SENSOR		WEIGHT (LB):	

EQUIPMENT ROOM VENTILATION (IF APPLICABLE)

CFM REQUIRED	NA	FAN CFM	NA
FRESH AIR INTAKE		SP(INCH)	
EXHAUST FAN MAKE		VOLTAGE	
MODEL NO:		PH	
FURN BY		HP	
* FAI FREE OPENING AREA		FLA	

HEAT RECLAIM

HOT WATER TANK		HEAT RECLAIM COIL	NA
MAKE			
MODEL NO			
CONNECTED TO		NO OF CKTS	
FURN BY		CONNECTED TO	
		FURN BY:	

ABBREVIATION

E: ELECTRIC DEFROST	S: SUCTION STOP SOLENOID,
TD: TIME OFF DEFROST	L: LIQUID LINE SOLENOID
G: GRAVITY DEFROST	R) - RELOCATED
KG: KOOL GAS DEFROST	U) - USED
HG: HOT GAS DEFROST	N)- NEW
LPRV: LIQ PRESS REG VALVE	E) - EXISTING
EPR: EVAP PRESSURE REG	N*) NEW TO STORE

SHEET NO.
RS
SHEET 1
OF 1

DISCHARGE GROUP NO.	RACK NO.	SYSTEM NO.	DESCRIPTION	LINE-UP FEET/DOOR	FIXTURE OR COOLER: CASE QTY/CLR SIZE 4 Ft 2DR CLR SZ	6Ft / 7Ft 3DR W	8Ft 4DR L	12Ft 5DR H	CASE COIL QTY	QTY WALK-IN DOORS	STATUS	MODEL NUMBER	CASE MANUF / COIL MANUF	REFRIG. DESIGN: LOAD PER FT or DR. (BTUH/FT or DR)	SUCTION (°F)	DISCH AIR OR BOX TEMP. (°F)	CONDENSING (°F)	REFRIGERANT	TOTAL (MBH)	COMP. NO.	COMPRESSOR: MODEL NUMBER	RLA	HP	CAPACITY (MBH)	EFFECTIVE CAP. (MBH)	SUBCOOLED CAP. (MBH) LIQUID TEMPERATURE at F	RETURN GAS TEMP. (°F)	MASS FLOW (LB/HR)
		1A	RI ICE CREAM	12	1			2	3		N)	RLN-I	HUSSMANN	1065	-19	-12			12.8								
		1B	RI ICE CREAM	10				2	2		N)	RLN-I	HUSSMANN	1065	-19	-12			10.7								
		1C	RI ICE CREAM	12	1			2	3		N)	RLN-I	HUSSMANN	1065	-19	-12			12.8								
		1D	RI ICE CREAM	10				2	2		N)	RLN-I	HUSSMANN	1065	-19	-12			10.7								
		1E	GROCERY FREEZER			28	15	9	2		N)	KRD44E-148TDAA	KRACK		-20	-12			24.2								
		1	COMMON												-23		+95	R448A	71.1			63.9	18.0	63.3		81.6 15%		
		1-1									N)									1-1	ZFD41K5E-TFC DIGITAL UNLOADER	42.1	12.0	43.1		55.5	65	
		1-2									N)									1-2	ZF18K4E-TFS	21.8	6.0	20.2		26.1	65	
		2B	SALAD	12				1	1		N)	IC6SM	HUSSMANN	1247	+28	+34			15.0								
		2C	MD PRODUCE	24				2	2		N)	IP4SL	HUSSMANN	1065	+29	+35			25.6								
		2D	DAIRY/PROD COOLER W/ R.I. DOORS			33	20	9	2 1	10	N) N)	KRD46A-216TDB KR016A-060TDB	KRACK		+25	+34			42.1								
		2E	MD DAIRY/ DELI	36				3	3		N)	ID6SU	HUSSMANN	1545	+28	+33			55.6								
		2F	MD MEAT	16			2		2		N)	IC6SM	HUSSMANN	1402	+25	+33			22.4								
		2G	MEAT COOLER			15	10	9	1		N)	KRD26E-090TDAA	KRACK		+21	+30			11.3								
		2H	LT SUBCOOLING												+30	+40			18.3								
		2	COMMON												+19		+95	R448A	190.2			93.8	22.0	213.6 12%				
		2-1									N)									2-1	ZB076K5E-TFC DIGITAL UNLOADER	43.0	10.0	94.0			65	
		2-2									N)									2-2	ZB48K5E-TFC	25.4	6.0	59.8			65	
		2-3									N)									2-3	ZB48K5E-TFC	25.4	6.0	59.8			65	
	1	1,2	COMMON DISCHARGE												+7		+95	R448A	261.3			157.7	40.0	276.9				

	REFRIG. LINE SIZES: LINE ROUTE	ESTIMATED HORIZONTAL FEET	EQUIVALENT LENGTH	SUCTION RISER	SUCTION RISER AS REQUIRED	LIQUID	DISCHARGE	CONDR DRAIN	HEAT RECLM SUP/RET	DEFROST: SYSTEM NO.	TYPE	NO. OF DEFROST	DURATION	DEFROST CLOCK & LOCATION	FIELD INSTALLED ACCESSORIES (OR AT CASE): EEPR / EPR WITH SUCTION STOP @ 20W OR PRESSURE REGULATING VALVE	SOLENOID @208V S & L	CHECK VALVE S & L	CPC TEMPERATURE SENSOR	SHUT - OFF VALVE (BY RACK MANUFACTURER): SUCT.	LIQ.	TXV
										1A	E	1	45	2) RO 1 Ø	CDST-4 EPR			3	1 1/8	3/8	WITH CASES
										1B	E	1	45	2) RO 1 Ø	CDST-4 EPR			2	7/8	3/8	WITH CASES
	SEE PIPE SCHEDULE									1C	E	1	45	2) RO 1 Ø	CDST-4 EPR			3	1 1/8	3/8	WITH CASES
										1D	E	1	45	2) RO 1 Ø	CDST-4 EPR			2	7/8	3/8	WITH CASES
										1E	E	4	46	2) RO	CDST-7 EPR	ESS130-MKC1 L		1	1 3/8	3/8	WITH COILS
										2B	TO	4	20	1) RO	CDST-4 EPR			1	7/8	1/2	WITH CASE
										2C	TO	4	20	1) RO	CDST-4 EPR			2	1 1/8	1/2	WITH CASES
	SEE PIPE SCHEDULE									2D	TO	3	45	1) RO	CDST-7 EPR	ME6S140-MKC1 L		1	1 3/8	1/2	WITH COILS
										2E	TO	4	20	1) RO	CDST-7 EPR			3	1 3/8	5/8	WITH CASES
										2F	TO	4	20	1) RO	CDST-4 EPR			2	7/8	1/2	WITH CASE
										2G	E	4	46	2) RO	CDST-4 EPR	ES5130-MKC1 L		1	1 7/8	3/8	WITH COIL
																		1			
	OH	60					1 5/8	1 5/8 7/8 VENT													

	FACTORY INSTALLED ACCESSORIES (OR AT RACK): E.P.R. @ 20W AT MANIFOLD	SOLENOID @208V S & L	TXV	SOLENOID HOT GAS @ 208 V	SHUT - OFF VALVE: SUCT.	LIQ.	HOT GAS	HOT GAS / DISCHARGE: CHECK V. BALL V.	MUFFLER	OIL FLOAT	OIL SEP.	OIL RES.	OIL RES. CHECK VALVE	SUCTION FILTER	LIQ. DRIER	SIGHT GLASS	LPRV	SUB COOLER	RECEIVER	HEAT RECLM VALVE
	PORT-3	L ES5130 W/MKC-1	SSER-B																	

SYSTEMS		CASES					208V CASE HEATERS										115V CASE FANS, WARMERS, & LIGHTS										COIL FAN MOTORS												208V COIL HEATERS										
								DEFROST HEATERS						OUTLETS				ECM FANS		ANTI SWEAT		LED LIGHTS		OUTLETS												OUTLETS						DEFROST						OUTLETS			
#	DESCRIPTION	LENGTH	MANUFACTURER	MODEL	QTY	LIN. FT.	ITEM #	AMPS /CASE	L1	L2	L3	CIRCUIT QTY	BREAKER SIZE	TYPE	LOC.	NOTES	ITEM #	CASE AMPS	TOTAL AMPS	CASE AMPS	TOTAL AMPS	CASE AMPS	TOTAL AMPS	TYPE	LOC.	NOTES	ITEM #	MANUFACTURER	MODEL	QTY	# MTRS PER COIL	AMPS PER MTR	TOTAL AMPS	VOLTS	Ø	TYPE	LOCATION	NOTES	ITEM #	AMPS /COIL	L1	L2	L3	CIRCUIT QTY	BREAKER SIZE	TYPE	LOC.	NOTES	WIRING SCHEME (SEE WIRING DIAG. BELOW)
1A	RI ICE CREAM	12 DRS	HUSSMANN	RLN	1 2	2 DR 5 DR	1	6.7 16.8	29.1	21.1	21.1	1	40A	CONDUIT	@ TOP OF CASE	2,11	2 V	3.1 8.6	20.3	ON FAN CIRCUIT	ON FAN CIRCUIT	0.4 0.8	2.0	CONDUIT	@ TOP OF CASE	4,5,7,9																						1B
1B	RI ICE CREAM	10 DRS	HUSSMANN	RLN	2	5 DR	3	16.8	29.1	16.8	16.8	1	40A	CONDUIT	@ TOP OF CASE	2,11	4 V	8.6	17.2	ON FAN CIRCUIT	ON FAN CIRCUIT	0.8	1.7	CONDUIT	@ TOP OF CASE	4,5,7,9																						1B
1C	RI ICE CREAM	12 DRS	HUSSMANN	RLN	1 2	2 DR 5 DR	5	6.7 16.8	29.1	21.1	21.1	1	40A	CONDUIT	@ TOP OF CASE	2,11	6 V	3.1 8.6	20.3	ON FAN CIRCUIT	ON FAN CIRCUIT	0.4 0.8	2.0	CONDUIT	@ TOP OF CASE	4,5,7,9																						1B
1D	RI ICE CREAM	10 DRS	HUSSMANN	RLN	2	5 DR	7	16.8	16.8	16.8	29.1	1	40A	CONDUIT	@ TOP OF CASE	2,11	8 V	8.6	17.2	ON FAN CIRCUIT	ON FAN CIRCUIT	0.8	1.7	CONDUIT	@ TOP OF CASE	4,5,7,9																						1B
1E	GROCERY FREEZER																										9 V	KRACK	KRD44E-148TDAA	2	4	0.6	4.8	208	1	J-BOX	STUB-OUT OF CEILING	3,4,5,8	10	17.4	17.4	30.14	17.4	1	40A	J-BOX	STUB-OUT OF CEILING	2,11	1C
2B	SALAD	12'	HUSSMANN	IC6SM	1	12'											12 V	1.4	1.4	-	-	1.9	1.9	CONDUIT	@ TOP OF CASE	5,9																						3B
2C	MD PRODUCE	24'	HUSSMANN	IP4SL	2	12'											13 V	1.4	2.8	-	-	2.1	4.3	CONDUIT	@ TOP OF CASE	5,9																						3B
2D	DAIRY/PRODUCE COOLER W/ R.I. DOORS																										14 V	KRACK	KRD46A-216TDB KRD16A-060TDB	2 1	4 1	0.9 0.9	8.1	115	1	J-BOX	STUB-OUT OF CEILING	4,5,8												3A
2E	MD DAIRY/ DELI	36'	HUSSMANN	ID6SU	3	12'											15 V	1.4	4.2	-	-	2.4	7.2	CONDUIT	@ TOP OF CASE	5,9																						3B
2F	MD MEAT	16'	HUSSMANN	IC6SM	2	8'											16 V	1.0	2.0	-	-	1.4	2.9	CONDUIT	@ TOP OF CASE	5,9																						3B
2G	MEAT COOLER																										17 V	KRACK	KRD26E-090TDAA	1	2	0.6	1.2	208	1	J-BOX	STUB-OUT OF CEILING	3,4,5,8	18	8.7	0	8.7	8.7	1	20A	J-BOX	STUB-OUT OF CEILING	2,11	1D

MISCELLANEOUS EQUIPMENT REQUIREMENTS

ITEM #	DESCRIPTION	VOLTS	Ø	HP	AMPS	OUTLETS TYPE	OUTLETS LOCATION	COMMENTS	NOTES
900	DRAIN LINE HEATER	115	1	4 WATTS / FT	2.0	OUTLET	@ BOX	REFER TO FLOOR PLAN FOR LOCATION	9
901	DOOR HEATER	115	1		10.0	OUTLET	@ BOX	REFER TO FLOOR PLAN FOR LOCATION	9
902	DOOR SWITCH	12					@ BOX	CABLE TO REFRIG. RACK, DOOR SWITCH CLOSED WHEN DOOR CLOSED. PROVIDED BY RACK MFG, INSTALLED BY R.C., WIRED BY E.C.	9
906	DAIRY COOLER RI DOOR HEATERS	115	1		17.76	CONDUIT	@ BOX	REFER TO FLOOR PLAN & VERIFY LOCATION.	9
907	DAIRY COOLER RI DOOR LIGHTS	115	1		6.9	CONDUIT	@ BOX	LIGHT FIXTURES BY BOX MFG	9
908	PRODUCE MISTER	115	1		1.0	CONDUIT	@ BOX	REFER TO FLOOR PLAN & VERIFY LOCATION.	9
910	ADIABATIC CONDENSER	208	3		17.4	CONDUIT	ON ROOF	POWERED FROM RACK PANEL. REFER TO FLOOR PLAN & VERIFY LOCATIONS. SEPARATE CONDUIT.	9
911	REFRIGERATION RACK COMPRESSOR POWER PANEL	208	3		RLA=215 MCA=226 MOPD=250	CONDUIT	EQUIP AREA	REFER TO FLOOR PLAN & VERIFY LOCATION.	6,9
912	SELF CONTAINED RI BEER CASE DAUPHINAIS 6' RDME-10-1875	208	1		15 MOCP	NEMA 6-15 PLUG	SALES FLOOR	WIRED BY E.C. REFER TO FLOOR PLAN & VERIFY LOCTION.	9
913	SELF CONTAINED 4' BUNKER CASE HUSSMANN Q3-5SM	115	1		RLA=23.	NEMA L5-30 PLUG	SALES FLOOR	WIRED BY E.C. REFER TO FLOOR PLAN & VERIFY LOCTION.	9
914	SELF CONTAINED ICE MERCHANDISER LEER MODEL 100	115	1		15 MOCP	CONDUIT	SALES FLOOR	WIRED BY E.C. REFER TO FLOOR PLAN & VERIFY LOCTION.	9
915	EMS DISPLAY	115	1				EQUIP. AREA	CAT5 WIRED TO CONTROLLER BY E.C. DEDICATED 115V RECEPTACLE WIRED TO ASSIGNED TERMINALS AT RACK CONTROL PANEL BY E.C.	9
916	MRLDS	24	1				RACK, FREEZER, COOLER	VERIFY LOCATION.	9,10
917	STORE ENERGY METER	208	3			CONDUIT	ON RACK	WIRED TO MAIN DIST. POWER BY E.C.	9
918	EMS SECURITY INTERFACE PANEL					CONDUIT	NEAR RACK	PROVIDED BY RACK MFG, INSTALLED BY R.C., WIRED BY E.C. & SECURITY CO. (V.L.)	9

MISCELLANEOUS EQUIPMENT REQUIREMENTS CONTINUED

ITEM #	DESCRIPTION	VOLTS	Ø	HP	AMPS	OUTLETS TYPE	OUTLETS LOCATION	COMMENTS	NOTES
919	REFRIGERATION RACK CONTROL POWER	115	1		10A CIRCUIT	CONDUIT		REFER TO FLOOR PLAN & VERIFY LOCATION.	6,9
920	ROLL-UP DOOR SWITCH	12					RECEIVING	CABLE TO LIGHTING PANEL, DOOR SWITCH CLOSED WHEN DOOR CLOSED. PROVIDED BY RACK MFG, INSTALLED BY R.C., WIRED BY E.C.	9
923	STROBE BLUE LIGHT/HORN	24 VAC					INSIDE & OUTSIDE OF WI BOX	REFRIGERATION LEAK ALARM TO REFRIGERATION RACK PANEL BY E.C.	9
924	STROBE AMBER LIGHT/HORN	24 VAC					OUTSIDE OF WI BOX	DOOR OPEN ALARM TO REFRIGERATION RACK PANEL BY E.C.	9
925	CONVENIENCE OUTLET	115	1		15A CIRCUIT	CONDUIT		REFER TO PLANS & VERIFY LOCATION.	9
941	SELF CONTAINED 5x7 CHEESE ISLAND HUSSMANN TY3	208/115	1		RLA=18	CS6365C PLUG	SALES FLOOR	208/1 WITH NEUTRAL. WIRED BY E.C. REFER TO FLOOR PLAN & VERIFY LOCTION.	9

DEFROST SCHEDULE

SYS	DEFROST TIME
1A	2A
1B	3A
1C	4A
1D	5A
1E	6A, 12P, 6P, 12A
2G	1A, 7A, 1P, 7P

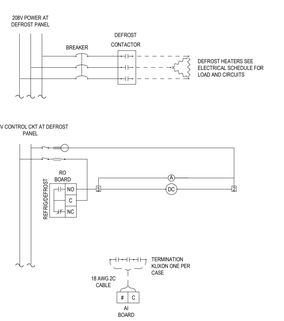
ALL DEFROST TIMES NEED TO RUN INDEPENDENTLY OF EACH OTHER. NO TWO SYSTEMS CAN DEFROST AT THE SAME TIME

WIRING LEGEND

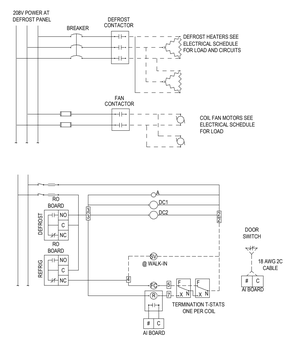
AI	COMPUTER ANALOG INPUT	R	RELAY
BCF	BODY COOLING FAN	RO	COMPUTER RELAY OUTPUT
C	CONTACTOR	SS	SUCTION SOLENOID
CB	CIRCUIT BREAKER	SSTD	SOLID STATE TIME DELAY
CCH	CRANKCASE HEATER	TD	TIME DELAY RELAY
CSR	CURRENT SENSING RELAY	UL	COMPRESSOR UNLOADER
DI	COMPUTER DIGITAL INPUT	WRS	WATER HEAT RECLAIM SOLENOID
EPR	EVAPORATOR PRESSURE REGULATOR	(R)	RED LIGHT
FC	FAN CONTACTOR	(G)	GREEN LIGHT
FM	FAN MOTOR	(A)	AMBER LIGHT
FR	FAILURE RELAY		
LS	LIQUID SOLENOID		
LSI	LIQUID INJECTION SOLENOID		PREWIRED PANEL WIRING
M	COMPRESSOR CONTACTOR		FIELD WIRING
OL	OVERLOAD RELAY		FACTORY WIRING
ORH	OIL RESERVOIR HEATER		

SHEET KEYNOTES

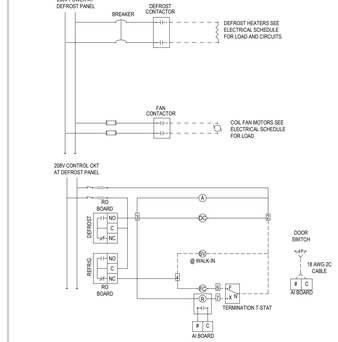
1. SOLENOID VALVES PROVIDED BY RACK MFG. AND INSTALLED BY R.C. THE E.C. TO WIRE ALL SOLENOIDS AS PER THE DEFROST WIRING SCHEMES ON THIS SHEET.
2. THE E.C. IS TO PROVIDE ALL DEFROST WIRING TO THE RACK CONTROL PANEL, AS PER THE DEFROST WIRING SCHEMES ON THIS SHEET.
3. THE E.C. IS TO WIRE THE DEFROST LIMIT AND FAN DELAY CONTROL THRU A J-BOX AT THE EVAPORATOR COILS, TO THE COMPRESSOR CONTROL PANEL. ALL WIRING IS TO BE AS PER THE DEFROST WIRING SCHEMES ON THIS SHEET.
4. DENOTES CONTROL WIRING TO THE RACK CONTROL PANEL FROM EITHER CASES OR COILS AS REQUIRED. ALL WIRING IS TO BE PER THE DEFROST WIRING SCHEMES ON THIS SHEET. PULL 14 AWG. CONTROL WIRES FOR EACH INSTANCE OF THIS NOTE BEING SHOWN.
5. (V) DENOTES LOW VOLTAGE CONTROL WIRING TO THE ESR BOARD IN THE RACK CONTROL PANEL FROM EITHER CASES OR COILS AS REQUIRED. E.C. TO SUPPLY AND INSTALL 4C-14 AWG CONTROL WIRES IN CONDUIT.
6. ALL CONTROL PANELS ARE TO BE INTERNALLY FACTORY PRE-WIRED AND PROVIDED BY THE RACK MFG. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL EXTERNAL WIRING TO AND FROM THE PANELS, AS PER THE PANEL WIRING DIAGRAMS ON THIS SHEET.
7. THE ELECTRICAL CONTRACTOR IS TO USE FLEX CONDUIT FROM CROWN END CASES TO THE ADJACENT CASES IF AN ELECTRICAL RACEWAY IS NOT PROVIDED IN THE CROWN CASE.
8. THE ELECTRICAL CONTRACTOR IS TO WIRE ALL EVAPORATOR FAN COILS AS PER THE COIL MANUFACTURERS INSTALLATION MANUALS. THE ELECTRICAL CONTRACTOR IS TO PROVIDE DISCONNECTS AT EACH COIL.
9. THE ELECTRICAL CONTRACTOR IS TO WIRE ALL EQUIPMENT PROVIDED BY THE FIXTURE CONTRACTOR, OWNER, OR TENANT.
10. E.C. TO SUPPLY 2 SETS OF WIRES (2-CONDUCTOR, 18 AWG SHIELDED AND 2-CONDUCTOR, AWG, NON SHIELDED) FROM REFRIGERATION RACK PANEL TO MRLDS LEAK SENSOR AT WALK-IN BOXES.
11. THE DEFROST CIRCUIT BREAKER SIZES LISTED ARE REPRESENTATIVE OF THE DEFROST LOADS. IT IS THE RACK MFG RESPONSIBILITY TO ENSURE ALL ELECTRICAL COMPONENTS COMPLY WITH ALL APPLICABLE CODES AND UL REQUIREMENTS. THE ENGINEER OF RECORD BARES NO RESPONSIBILITY FOR THE DEFROST BREAKER SIZES LISTED ON THIS SHEET.
12. VENTILATION PROOF - SUPPLIED BY R.M., INSTALLED BY R.C., WIRED BY E.C. (2-CONDUCTOR, 18 AWG NON SHIELDED) FROM REFRIGERATION RACK PANEL
13. LAMPS ARE CONTROLLED VIA BOARD POINTS IN REFRIGERATION RACK PANEL (N.C.=GREEN, FAN "ON", N.O.=RED, FAN "OFF"). E.C. TO PROVIDE CONTROL WIRE TO REFRIGERATION RACK PANEL.



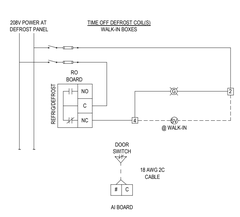
1 R6-21 SCHEME 1B



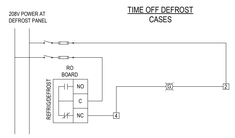
2 R6-21 SCHEME 1C



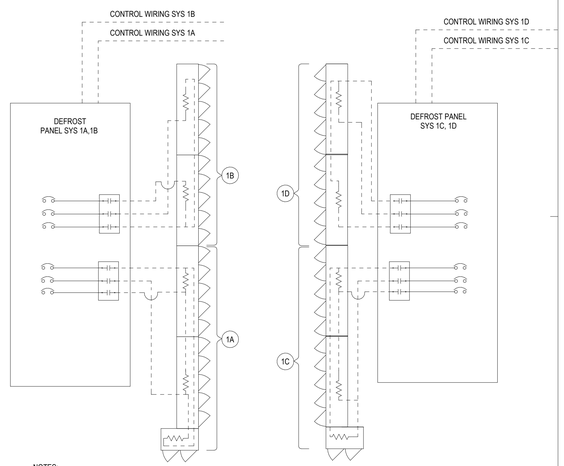
3 R6-21 SCHEME 1D



4 R6-21 SCHEME 3A



5 R6-21 SCHEME 3B



NOTES:

1.- DIAGRAM PROVIDES AN OVERVIEW OF DEFROST WIRING, REFER TO SCHEMES AND ELECTRICAL SCHEDULE FOR DETAILS.

2.- DEFROST WIRES TO BE SIZED PER NEC CONSIDERING TOTAL RUN LENGTH, TEMPERATURE, ETC.

6 R6-21 LOW TEMP DEFROST WIRING DIAGRAM

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER 97558PE OREGON DEC 31, 2025 MEZA NOROUA

PROFESSIONAL IN CHARGE
RN

PROJECT MANAGER
GH

QUALITY CONTROL
JV

DRAWN BY
JV

PROJECT NAME

CENTRAL POINT, OR

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

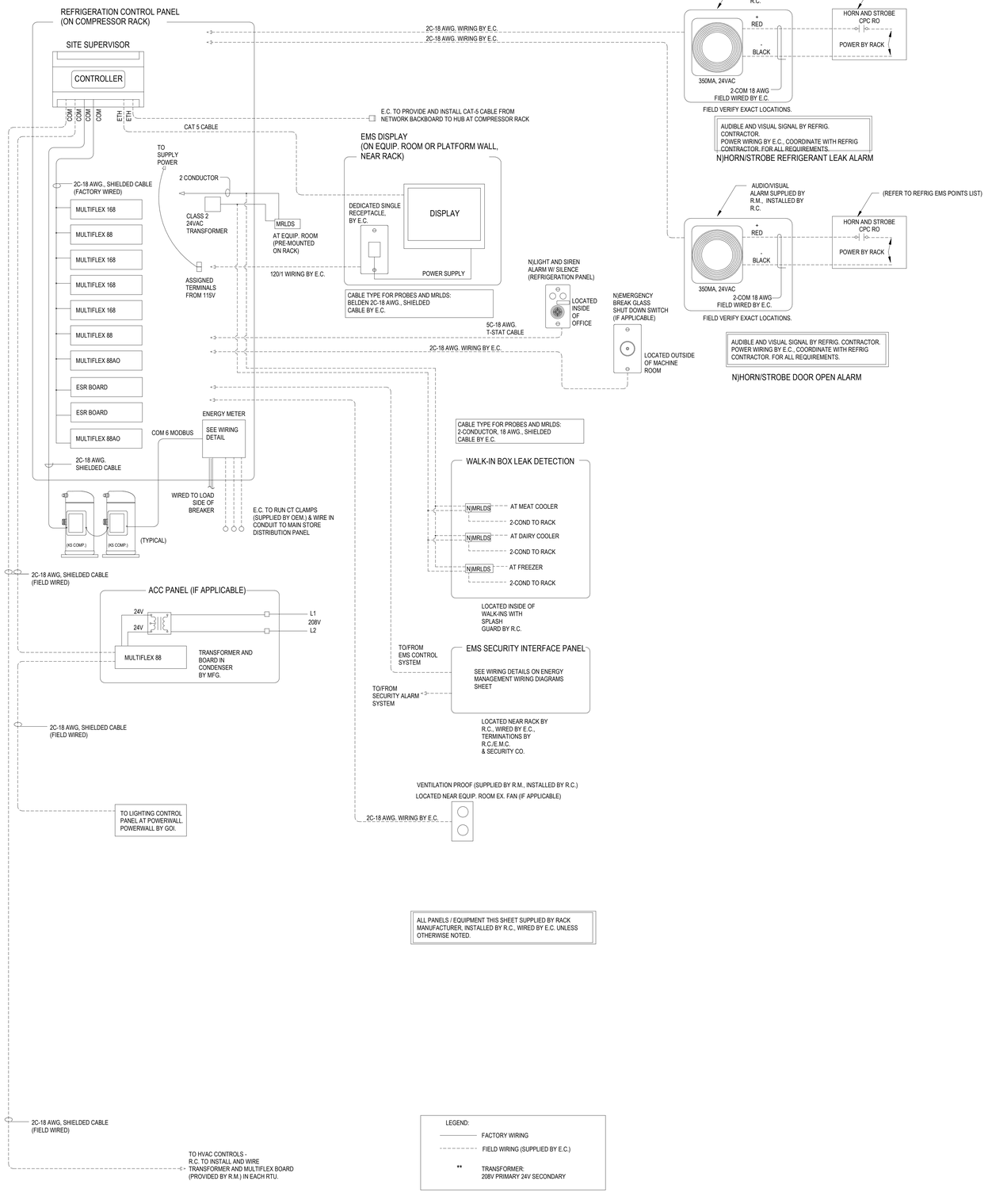
SHEET TITLE

ELEC REQUIREMENTS SCHEDULE & DEFROST SCHEMES

SHEET NUMBER

R6-21

Last Modified: 2/24/2025 12:47:47 PM Drawing Name:Autodesk Docs://Dickey Outlet - Central Point, OR (0000) 1\DGL_Central Point OR_MEP&_R22.rvt



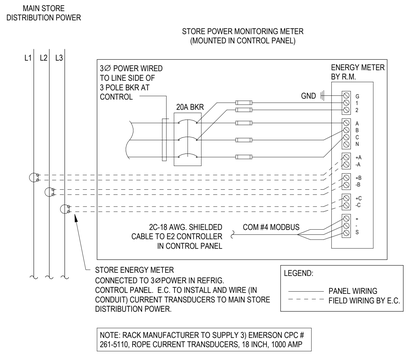
1 R8-01 TYPICAL EMS BOARD LAYOUT

RACK	BOARD	POINT	DESCRIPTION	WIRING	S1/S2	AI/DI TYPE	RELAY	FAILESAFE
MULTIFLEX 168 BOARD	1	AI/DI 1	1 SUCTION PRESSURE	PANEL	UP	0-200#	---	---
		AI/DI 2	2 SUCTION PRESSURE	PANEL	UP	0-200#	---	---
		AI/DI 3	1&2 DISCHARGE PRESSURE	PANEL	UP	0-500#	---	---
		AI/DI 4	1 SUCTION TEMP	PANEL	UP	TEMP	---	---
		AI/DI 5	2 SUCTION TEMP	PANEL	UP	TEMP	---	---
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	1&2 DROP LEG PRESSURE	PANEL	UP	0-500#	---	---
		AI/DI 8	1&2 DROP LEG TEMP	PANEL	UP	TEMP	---	---
		AI/DI 9	1&2 LIQUID LEVEL	PANEL	UP	ANALOG	---	---
		AI/DI 10	1-1 DDC ALARM	PANEL	UP	DIGITAL	---	---
		AI/DI 11	2-1 DDC ALARM	PANEL	UP	DIGITAL	---	---
		AI/DI 12	PHASE LOSS	PANEL	UP	DIGITAL	---	---
		AI/DI 13	GEN ALARM HORN SILENCE	FIELD	UP	DIGITAL	---	---
		AI/DI 14	---	---	---	---	---	---
		AI/DI 15	---	---	---	---	---	---
		AI/DI 16	---	---	---	---	---	---
		RO 1	---	---	---	---	---	---
		RO 2	1-2 COMP	PANEL	---	---	N/C	UP
		RO 3	2-2 COMP	PANEL	---	---	N/C	UP
		RO 4	2-3 COMP	PANEL	---	---	N/C	UP
		RO 5	---	---	---	---	---	---
		RO 6	---	---	---	---	---	---
		RO 7	---	---	---	---	---	---
		RO 8	---	---	---	---	---	---
MULTIFLEX 88 BOARD	2	AI/DI 1	1E GROCERY FRZR TERM	FIELD	UP	DIGITAL	---	---
		AI/DI 2	2C MEAT COOLER TERM	FIELD	UP	DIGITAL	---	---
		AI/DI 3	---	---	---	---	---	---
		AI/DI 4	1-2 COMP PROOF	PANEL	UP	DIGITAL	---	---
		AI/DI 5	2-2 COMP PROOF	PANEL	UP	DIGITAL	---	---
		AI/DI 6	2-3 COMP PROOF	PANEL	UP	DIGITAL	---	---
		AI/DI 7	---	---	---	---	---	---
		AI/DI 8	TEMP AT RACK	PANEL	---	TEMP	---	---
		RO 1	---	---	---	---	---	---
		RO 2	---	---	---	---	---	---
		RO 3	---	---	---	---	---	---
		RO 4	---	---	---	---	---	---
		RO 5	---	---	---	---	---	---
		RO 6	---	---	---	---	---	---
		RO 7	---	---	---	---	---	---
		RO 8	---	---	---	---	---	---
MULTIFLEX 168 BOARD	3	AI/DI 1	1A RI ICE CREAM TERM	FIELD	UP	DIGITAL	---	---
		AI/DI 2	1B RI ICE CREAM TERM	FIELD	UP	DIGITAL	---	---
		AI/DI 3	1C RI ICE CREAM TERM	FIELD	UP	DIGITAL	---	---
		AI/DI 4	1D RI ICE CREAM TERM	FIELD	UP	DIGITAL	---	---
		AI/DI 5	1E GROCERY FREEZER DR SW	FIELD	UP	DIGITAL	---	---
		AI/DI 6	2D DAIRY COOLER DR SW	FIELD	UP	DIGITAL	---	---
		AI/DI 7	2G MEAT COOLER DR SW	FIELD	UP	DIGITAL	---	---
		AI/DI 8	1A-1 RIC/COFF	FIELD	UP	TEMP	---	---
		AI/DI 9	1A-2 RIC/COFF	FIELD	UP	TEMP	---	---
		AI/DI 10	1A-3 RIC/COFF	FIELD	UP	TEMP	---	---
		AI/DI 11	---	---	---	---	---	---
		AI/DI 12	---	---	---	---	---	---
		AI/DI 13	1B-1 RIC/COFF	FIELD	UP	TEMP	---	---
		AI/DI 14	1B-2 RIC/COFF	FIELD	UP	TEMP	---	---
		AI/DI 15	---	---	---	---	---	---
		AI/DI 16	---	---	---	---	---	---
		RO 1	1A REFRIGERATION	FIELD	---	---	N/C	UP
		RO 2	1A DEFROST	PANEL	---	---	N/O	DOWN
		RO 3	1B REFRIGERATION	FIELD	---	---	N/C	UP
		RO 4	1B DEFROST	PANEL	---	---	N/O	DOWN
		RO 5	1C REFRIGERATION	FIELD	---	---	N/C	UP
		RO 6	1C DEFROST	PANEL	---	---	N/O	DOWN
		RO 7	1D REFRIGERATION	FIELD	---	---	N/C	UP
		RO 8	1D DEFROST	PANEL	---	---	N/O	DOWN
MULTIFLEX 168 BOARD	4	AI/DI 1	---	---	---	---	---	---
		AI/DI 2	1C-1 COFF/ RIIC TEMP	FIELD	UP	TEMP	---	---
		AI/DI 3	1C-2 COFF/RIIC TEMP	FIELD	UP	TEMP	---	---
		AI/DI 4	1C-3 COFF/RIIC TEMP	FIELD	UP	TEMP	---	---
		AI/DI 5	---	---	---	---	---	---
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	1D-1 COFF/RIIC TEMP	FIELD	UP	TEMP	---	---
		AI/DI 8	1D-2 COFF/RIIC TEMP	FIELD	UP	TEMP	---	---
		AI/DI 9	---	---	---	---	---	---
		AI/DI 10	---	---	---	---	---	---
		AI/DI 11	---	---	---	---	---	---
		AI/DI 12	1E GROCERY FREEZER TEMP	FIELD	UP	TEMP	---	---
		AI/DI 13	2A MD BEER TEMP	FIELD	UP	TEMP	---	---
		AI/DI 14	2B-SALAD TEMP	FIELD	UP	TEMP	---	---
		AI/DI 15	2C-1 PRODUCE TEMP	FIELD	UP	TEMP	---	---
		AI/DI 16	2C-2 PRODUCE TEMP	FIELD	UP	TEMP	---	---
		RO 1	1E REFRIGERATION/LIQ SHUTDOWN	FIELD	---	---	N/C	UP
		RO 2	1E DEFROST	PANEL	---	---	N/O	DOWN
		RO 3	2A REFRIGERATION	FIELD	---	---	N/C	UP
		RO 4	2B REFRIGERATION	FIELD	---	---	N/C	UP
		RO 5	2C REFRIGERATION	FIELD	---	---	N/C	UP
		RO 6	2E REFRIGERATION/LIQ SHUTDOWN	FIELD	---	---	N/C	UP
		RO 7	2E REFRIGERATION	FIELD	---	---	N/C	UP
		RO 8	---	---	---	---	---	---
MULTIFLEX 168 BOARD	5	AI/DI 1	2D DAIRY COOLER TEMP	FIELD	UP	TEMP	---	---
		AI/DI 2	2E-1 DELI TEMP	FIELD	UP	TEMP	---	---
		AI/DI 3	2E-2 DELI TEMP	FIELD	UP	TEMP	---	---
		AI/DI 4	2E-3 DELI TEMP	FIELD	UP	TEMP	---	---
		AI/DI 5	---	---	---	---	---	---
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	2F-1 MD MEAT TEMP	FIELD	UP	TEMP	---	---
		AI/DI 8	2F-2 MD MEAT TEMP	FIELD	UP	TEMP	---	---
		AI/DI 9	2G MEAT COOLER TEMP	FIELD	UP	TEMP	---	---
		AI/DI 10	SPOT MEAT TEMP	FIELD	UP	TEMP	---	---
		AI/DI 11	SPOT PRODUCE TEMP	FIELD	UP	TEMP	---	---
		AI/DI 12	SPOT FISH TEMP	FIELD	UP	TEMP	---	---
		AI/DI 13	MRLDS COMPRESSOR RACK	PANEL	DOWN	LEAK	---	---
		AI/DI 14	1E MRLDS GROCERY FREEZER	FIELD	DOWN	LEAK	---	---
		AI/DI 15	2D MRLDS DAIRY COOLER	FIELD	DOWN	LEAK	---	---
		AI/DI 16	2G MRLDS MEAT COOLER	FIELD	DOWN	LEAK	---	---
		RO 1	2F REFRIGERATION	FIELD	---	---	N/C	UP
		RO 2	2G REFRIGERATION/LIQ SHUTDOWN	FIELD	---	---	N/C	UP
		RO 3	2G DEFROST	PANEL	---	---	N/O	DOWN
		RO 4	---	---	---	---	---	---
		RO 5	---	---	---	---	---	---
		RO 6	REF ALARM TO BLDG SECURITY	FIELD	---	---	N/O	UP
		RO 7	SYS ALARM LIGHT	FIELD	---	---	N/C	UP
		RO 8	SYS ALARM SIREN	FIELD	---	---	N/C	UP
MULTIFLEX 88 BOARD	6	AI/DI 1	1 OIL FAIL	PANEL	UP	DIGITAL	---	---
		AI/DI 2	2 OIL FAIL	PANEL	UP	DIGITAL	---	---
		AI/DI 3	1&2 OIL SEP DIFF ALARM (PDI)	PANEL	UP	DIGITAL	---	---
		AI/DI 4	SUBCOOLER SUCTION PRESSURE	PANEL	UP	0-200#	---	---
		AI/DI 5	SUBCOOLER SUCTION TEMP	PANEL	UP	TEMP	---	---
		AI/DI 6	SUBCOOLED LIQUID TEMP	PANEL	UP	TEMP	---	---
		AI/DI 7	---	---	---	---	---	---
		AI/DI 8	VESTIBULE TEMP	PANEL	UP	TEMP	---	---
		RO 1	SUBCOOLER LIQUID SOLENOID	PANEL	---	---	N/O	DOWN
		RO 2	1E EMERGENCY LIQ SHUTDOWN	FIELD	---	---	N/C	UP
		RO 3	2D EMERGENCY LIQ SHUTDOWN	FIELD	---	---	N/C	UP
		RO 4	2G EMERGENCY LIQ SHUTDOWN	FIELD	---	---	N/C	UP
		RO 5	1E LEAK ALARM SIREN/STROBE	FIELD	---	---	N/O	DOWN
		RO 6	2D LEAK ALARM SIREN/STROBE	FIELD	---	---	N/O	DOWN
		RO 7	2G LEAK ALARM SIREN/STROBE	FIELD	---	---	N/O	DOWN
		RO 8	RACK LEAK ALARM	FIELD	---	---	N/O	DOWN
MULTIFLEX 88 BOARD	7	AI/DI 1	---	---	---	---	---	---
		AI/DI 2	---	---	---	---	---	---
		AI/DI 3	---	---	---	---	---	---
		AI/DI 4	BUILDING ALARM INPUT	FIELD	UP	DIGITAL	---	---
		AI/DI 5	---	---	---	---	---	---
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	---	---	---	---	---	---
		AI/DI 8	---	---	---	---	---	---
	7	RO 1	VESTIBULE HEATER RELAY	FIELD	---	---	N/O	DOWN
		RO 2	---	---	---	---	---	---
		RO 3	---	---	---	---	---	---
		RO 4	1E GROCERY FREEZER DR ALARM	FIELD	---	---	N/O	DOWN
		RO 5	2D DAIRY COOLER DR ALARM	FIELD	---	---	N/O	DOWN
		RO 6	2G MEAT CODLER DR ALARM	FIELD	---	---	N/O	DOWN
		RO 7	---	---	---	---	---	---
		RO 8	OUT TO FIRE LEAK DETECTION	FIELD	---	---	N/O	UP

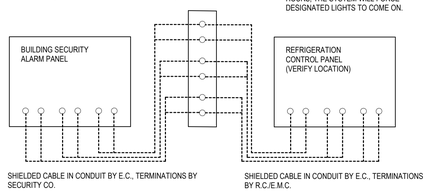
PWR WALL	BOARD	POINT	DESCRIPTION	WIRING	S1/S2	AI/DI TYPE	RELAY	FAILESAFE
MULTIFLEX 88AO BOARD	9	AI/DI 1	MOTION SENSOR LIGHT OVERRIDE	FIELD	UP	DIGITAL	---	---
		AI/DI 2	INDOOR PHOTOCELL VESTIBULE	FIELD	DOWN	LIGHT LEVEL	---	---
		AI/DI 3	INDOOR PHOTOCELL PRIMARY	FIELD	DOWN	LIGHT LEVEL	---	---
		AI/DI 4	INDOOR PHOTOCELL SECONDARY	FIELD	DOWN	LIGHT LEVEL	---	---
		AI/DI 5	DEMAND INPUT	FIELD	UP	DIGITAL	---	---
		AI/DI 6	ROLL-UP DOOR	FIELD	UP	DIGITAL	---	---
		AI/DI 7	---	---	---	---	---	---
		AI/DI 8	LIGHTING PANEL TEMP	PANEL	UP	TEMP	---	---
	9	RO 1	CASE LIGHTS	PANEL	---	---	N/O	DOWN
		RO 2	STORE OPEN SIGN	PANEL	---	---	N/O	DOWN
		RO 3	ZONE 1 PRIMARY DAY LIT LIGHTS	PANEL	---	---	N/O	DOWN
		RO 4	ZONE 2 SECONDARY LIT LIGHTS	PANEL	---	---	N/O	DOWN
		RO 5	ZONE 3 SALES LIGHTS	PANEL	---	---	N/O	DOWN
		RO 6	ZONE 4 BOH LIGHTS	PANEL	---	---	N/O	DOWN
		RO 7	ZONE 5 VESTIBULE DAY LIT LIGHTS	PANEL	---	---	N/O	DOWN
		RO 8	ZONE 5 EMERG/HK VESTIBULE LIT LIGHTS	PANEL	---	---	N/O	DOWN
	3	AO-1	ZONE 1 PRI DAY/EMERG OUTPUT	PANEL	0-10VDC	---	---	---
		AO-2	ZONE 2 SEC DAY/EMERG OUTPUT	PANEL	0-10 VDC	---	---	---
		AO-3	ZONE 3 SALES FLR/EMERG OUTPUT	PANEL	0-10 VDC	---	---	---
		AO-4	ZONE 4 BOH/EMERG OUTPUT	PANEL	0-10 VDC	---	---	---
MULTIFLEX 88AO BOARD	10	AI/DI 1	---	---	---	---	---	---
		AI/DI 2	---	---	---	---	---	---
		AI/DI 3	---	---	---	---	---	---
		AI/DI 4	---	---	---	---	---	---
		AI/DI 5	---	---	---	---	---	---
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	---	---	---	---	---	---
		AI/DI 8	---	---	---	---	---	---
	10	RO 1	ZONE 1/2 EMERG/HK DAY/SEC LIGHTS	PANEL	---	---	N/O	DOWN
		RO 2	ZONE 3 EMERG/HK SALES LIGHTS	PANEL	---	---	N/O	DOWN
		RO 3	ZONE 4 EMERG/HK BOH LIGHTS	PANEL	---	---	N/O	DOWN
		RO 4	CANOPY A LIGHTS	PANEL	---	---	N/O	DOWN
		RO 5	CANOPY B LIGHTS	PANEL	---	---	N/O	DOWN
		RO 6	WALL PACK A LIGHTS	PANEL	---	---	N/O	DOWN
		RO 7	WALL PACK B LIGHTS	PANEL	---	---	N/O	DOWN
		RO 8	BUILDING SIGN LIGHTS	PANEL	---	---	N/O	DOWN
	4	AO-1	ZONE 5 VESTIBULE/EMERG OUTPUT	PANEL	0-10VDC	---	---	---
		AO-2	---	---	---	---	---	---
		AO-3	---	---	---	---	---	---
		AO-4	---	---	---	---	---	---
MULTIFLEX 88 BOARD	11	AI/DI 1	DEMAND RESPONSE TEST	FIELD	UP	DIGITAL	---	---
		AI/DI 2	SALES LIGHTS OVERRIDE PUSHBUTTON	FIELD	UP	DIGITAL	---	---
		AI/DI 3	BOH LTS OVERRIDE PUSHBUTTON	FIELD	UP	DIGITAL	---	---
		AI/DI 4	EXTERIOR LTS OVERRIDE PUSHBUTTON	FIELD	UP	DIGITAL	---	---
		AI/DI 5	---	---	---	---	---	---
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	---	---	---	---	---	---
		AI/DI 8	---	---	---	---	---	---
	11	RO 1	PARKING A LIGHTS (IF EQUIPPED)	PANEL	---	---	N/O	DOWN
		RO 2	PARKING B LIGHTS (IF EQUIPPED)	PANEL	---	---	N/O	DOWN
		RO 3	---	---	---	---	---	---
		RO 4	---	---	---	---	---	---
		RO 5	---	---	---	---	---	---
		RO 6	---	---	---	---	---	---
		RO 7	---	---	---	---	---	---
		RO 8	---	---	---	---	---	---

RTU	BOARD	POINT	DESCRIPTION	WIRING	S1/S2	AI/DI TYPE	RELAY	FAILESAFE
MULTIFLEX 88AO BOARD	12	AI/DI 1	AC-1 SPACE TEMP	FIELD	UP	TEMP	---	---
		AI/DI 2	AC-1 FAN PROOF (DP SWITCH)	FIELD	UP	DIGITAL	---	---
		AI/DI 3	AC-1 SUPPLY AIR TEMP	FIELD	UP	TEMP	---	---
		AI/DI 4	AC-1 SPACE RH	FIELD	DOWN	HUMIDITY	---	---
		AI/DI 5	AC-1 CO2 SENSOR	FIELD	DOWN	CO2	---	---
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	AC-1 SMOKE DETECTOR ALARM	FIELD	UP	DIGITAL	---	---
		AI/DI 8	REMOTE SAFETY SHUTDOWN	FIELD	UP	DIGITAL	---	---
	12	RO 1	AC-1 FAN	FIELD	---	---	N/O	DOWN
		RO 2	AC-1 COOL 1	FIELD	---	---	N/C	UP
		RO 3	AC-1 COOL 2	FIELD	---	---	N/O	DOWN
		RO 4	AC-1 HEAT 1	FIELD	---	---	N/O	DOWN
		RO 5	AC-1 HEAT 2	FIELD	---	---	N/O	UP
		RO 6	AC-1 HRC	FIELD	---	---	N/O	UP
		RO 7	---	---	---	---	---	---
		RO 8	---	---	---	---	---	---
	5	AO-1	AC-1 FAN VSD	FIELD	0-10 VDC	---	---	---
		AO-2	AC-1 OUTSIDE AIR DAMPER	FIELD	2-10 VDC	---	---	---
		AO-3	---	---	---	---	---	---
		AO-4	---	---	---	---	---	---
RTU	BOARD	POINT	DESCRIPTION	WIRING	S1/S2	AI/DI TYPE	RELAY	FAILESAFE
MULTIFLEX 88AO BOARD	13	AI/DI 1	AC-2 SPACE TEMP	FIELD	UP	TEMP	---	---
		AI/DI 2	AC-2 FAN PROOF (DP SWITCH)	FIELD	UP	DIGITAL	---	---
		AI/DI 3	AC-2 SUPPLY AIR TEMP	FIELD	UP	TEMP	---	---
		AI/DI 4	AC-2 SPACE RH	FIELD	DOWN	HUMIDITY	---	---
		AI/DI 5	AC-2 CO2 SENSOR	FIELD	DOWN	CO2	---	---
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	AC-2 SMOKE DETECTOR ALARM	FIELD	UP	DIGITAL	---	---
		AI/DI 8	REMOTE SAFETY SHUTDOWN	FIELD	UP	DIGITAL	---	---
	13	RO 1	AC-2 FAN	FIELD	---	---	N/O	DOWN
		RO 2	AC-2 COOL 1	FIELD	---	---	N/C	UP
		RO 3	AC-2 COOL 2	FIELD	---	---	N/O	DOWN
		RO 4	AC-2 HEAT 1	FIELD	---	---	N/O	DOWN
		RO 5	AC-2 HEAT 2	FIELD	---	---	N/O	UP
		RO 6	AC-2 HRC	FIELD	---	---	N/O	UP
		RO 7	---	---	---	---	---	---
		RO 8	---	---	---	---	---	---
	6	AO-1	AC-2 FAN VSD	FIELD	0-10 VDC	---	---	---
		AO-2	AC-2 OUTSIDE AIR DAMPER	FIELD	2-10 VDC	---	---	---
		AO-3	---	---	---	---	---	---
		AO-4	---	---	---	---	---	---
RTU	BOARD	POINT	DESCRIPTION	WIRING	S1/S2	AI/DI TYPE	RELAY	FAILESAFE
MULTIFLEX 88AO BOARD	14	AI/DI 1	AC-3 SPACE TEMP	FIELD	UP	TEMP	---	---
		AI/DI 2	AC-3 FAN PROOF (DP SWITCH)	FIELD	UP	DIGITAL	---	---
		AI/DI 3	AC-3 SUPPLY AIR TEMP	FIELD	UP	TEMP	---	---
		AI/DI 4	AC-3 SPACE RH	FIELD	DOWN	HUMIDITY	---	---
		AI/DI 5	AC-3 CO2 SENSOR	FIELD	DOWN	CO2	---	---
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	AC-3 SMOKE DETECTOR ALARM	FIELD	UP	DIGITAL	---	---
		AI/DI 8	REMOTE SAFETY SHUTDOWN	FIELD	UP	DIGITAL	---	---
	14	RO 1	AC-3 FAN	FIELD	---	---	N/O	DOWN
		RO 2	AC-3 COOL 1	FIELD	---	---	N/C	UP
		RO 3	AC-3 COOL 2	FIELD	---	---	N/O	DOWN
		RO 4	AC-3 HEAT 1	FIELD	---	---	N/O	DOWN
		RO 5	AC-3 HEAT 2	FIELD	---	---	N/O	UP
		RO 6	AC-3 HRC	FIELD	---	---	N/O	UP
		RO 7	---	---	---	---	---	---
		RO 8	---	---	---	---	---	---
	7	AO-1	AC-3 FAN VSD	FIELD	0-10 VDC	---	---	---
		AO-2	AC-3 OUTSIDE AIR DAMPER	FIELD	2-10 VDC	---	---	---
		AO-3	---	---	---	---	---	---
		AO-4	---	---	---	---	---	---
DH	BOARD	POINT	DESCRIPTION	WIRING	S1/S2	AI/DI TYPE	RELAY	FAILESAFE
MULTIFLEX 88AO BOARD	15	AI/DI 1	DH-1 SPACE TEMP	FIELD	UP	TEMP	---	---
		AI/DI 2	DH-1 FAN PROOF (DP SWITCH)	FIELD	UP	DIGITAL	---	---
		AI/DI 3	DH-1 SUPPLY AIR TEMP	FIELD	UP	TEMP	---	---
		AI/DI 4	DH-1 SPACE RH	FIELD	DOWN	HUMIDITY	---	---
		AI/DI 5	DH-1 CO2 SENSOR	FIELD	DOWN	CO2	---	---
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	DH-1 SMOKE DETECTOR ALARM	FIELD	UP	DIGITAL	---	---
		AI/DI 8	REMOTE SAFETY SHUTDOWN	FIELD	UP	DIGITAL	---	---
	15	RO 1	DH-1 FAN	FIELD	---	---	N/O	DOWN
		RO 2	DH-1 COOL 1	FIELD	---	---	N/C	UP
		RO 3	DH-1 COOL 2	FIELD	---	---	N/O	DOWN
		RO 4	DH-1 HEAT 1	FIELD	---	---	N/O	DOWN
		RO 5	DH-1 HEAT 2	FIELD	---	---	N/O	UP
		RO 6	DH-1 HRC	FIELD	---	---	N/O	UP
		RO 7	---	---	---	---	---	---
		RO 8	---	---	---	---	---	---
	8	AO-1	DH-1 FAN VSD	FIELD	0-10 VDC	---	---	---
		AO-2	DH-1 OUTSIDE AIR DAMPER	FIELD	2-10 VDC	---	---	---
		AO-3	---	---	---	---	---	---
		AO-4	---	---	---	---	---	---

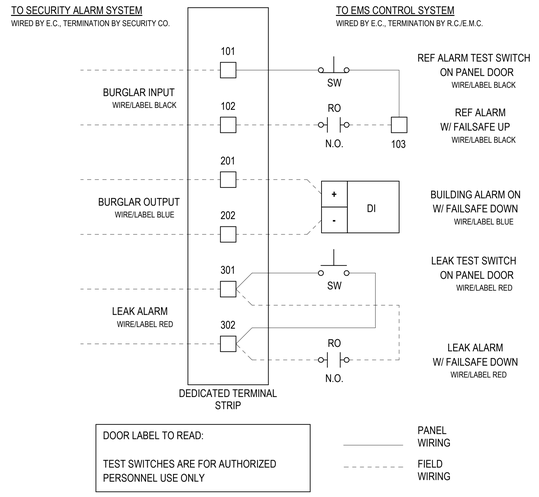
MULTIFLEX ESR	1	VALVE 1	1A EEPR	FIELD	---	---	---	---
		VALVE 2	1B EEPR	FIELD	---	---	---	---
		VALVE 3	1C EEPR	FIELD	---	---	---	---
		VALVE 4	1D EEPR	FIELD	---	---	---	---
		VALVE 5	1E EEPR	FIELD	---	---	---	---
		VALVE 6	2A EEPR	FIELD	---	---	---	---
		VALVE 7	2B EEPR	FIELD	---	---	---	---
		VALVE 8	2C EEPR	FIELD	---	---	---	---
MULTIFLEX ESR	2	VALVE 1	2D EEPR	FIELD	---	---	---	---
		VALVE 2	2E EEPR	FIELD	---	---	---	---
		VALVE 3	---	---	---	---	---	---
		VALVE 4	2F EEPR	FIELD	---	---	---	---
		VALVE 5	2G EEPR	FIELD	---	---	---	---
		VALVE 6	---	---	---	---	---	---
		VALVE 7	SUBCOOLER EEV	PANEL	---	---	---	---
		VALVE 8	LOAD SHIFT EEV	PANEL	---	---	---	---
MULTIFLEX 88AO BOARD	8	AI/DI 1	OUSTIDE TEMP	FIELD	UP	TEMP	---	---
		AI/DI 2	OUTSIDE HUMIDITY	FIELD	DOWN	HUMIDITY	---	---
		AI/DI 3	OUTSIDE PHOTOCELL	FIELD	DOWN	LIGHT LEVEL	---	---
		AI/DI 4	HYBRID CONDENSER POST PAD TEMP	FIELD	UP	TEMP	---	---
		AI/DI 5	HYBRID CONDENSER ALARM	FIELD	---	---	N/O	DOWN
		AI/DI 6	---	---	---	---	---	---
		AI/DI 7	---	---	---	---	---	---
		AI/DI 8	---	---	---	---	---	---
	8	RO 1	---	---	---	---	---	---
		RO 2	---	--



1 R8-02 STORE POWER MONITORING PANEL (WIRING)



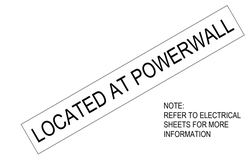
2 R8-02 WIRING OF BUILDING SECURITY ALARM TO COPELAND SYSTEM



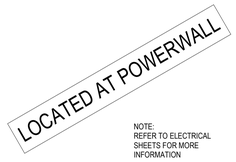
3 R8-02 EMS SECURITY INTERFACE PANEL WIRING

EMS INSTALLATION NOTES

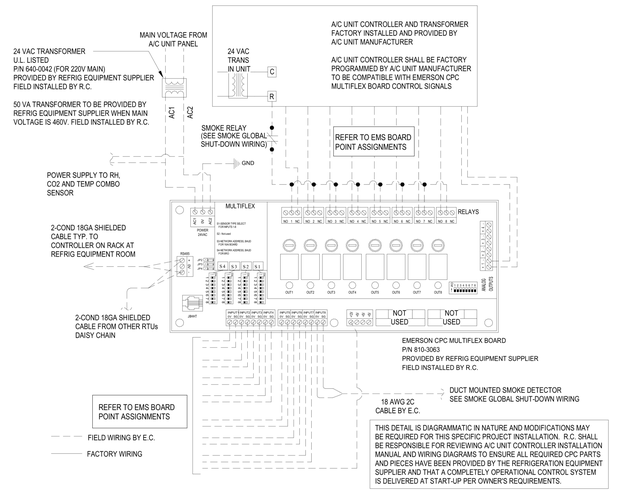
1. THE ELECTRICAL CONTRACTOR IS TO REVIEW THESE PLANS AND DIAGRAMS PRIOR TO STARTING WORK AND IS TO CONTACT THE REFRIG. CONTRACTOR IF CLARIFICATION IS NEEDED. UPON COMPLETION OF THE REFRIGERATION RELATED ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR, IN THE PRESENCE OF THE REFRIG. CONTRACTOR, IS TO PERFORM A COMPLETE TESTING OF ALL CIRCUITS AND MAKE ANY CORRECTIONS NECESSARY. THE ELECTRICAL CONTRACTOR IS NOT TO START ANY REFRIGERATION RELATED EQUIPMENT WITHOUT THE AUTHORIZATION OF R.C.
2. ALL WIRING (HIGH AND LOW VOLTAGE), CONDUIT, COMPONENTS, AND HIGH VOLTAGE CONNECTIONS ARE TO BE MADE BY THE ELECTRICAL CONTRACTOR. ALL WIRING IS TO BE COPPER. NO ALUMINUM WIRING IS TO BE PERMITTED. ALL WORK IS TO MEET APPLICABLE CODES. R.C. IS TO MAKE ALL LOW VOLTAGE WIRING CONNECTIONS TO CPC PANELS. ELECTRICAL CONTRACTOR IS TO PULL AND TERMINATE ALL LOW VOLTAGE WIRING CONNECTIONS AT PROBES OR OTHER DEVICES AT THE FIXTURES.
3. ALL LOW VOLTAGE WIRING IS TO BE 18 GAUGE SHIELDED CABLE RUN IN SEPARATE CONDUIT FROM ANY OTHER HIGH VOLTAGE SOURCE.
4. IN ALL INSTANCES THE ELECTRICAL CONTRACTOR IS TO CLEARLY TAG ALL CABLES AT EACH END FOR TERMINATION IDENTIFICATION. THE FOLLOWING INFORMATION IS TO APPEAR ON EACH TAG:
   A. POINT NAME
   B. ORIGINATION
5. THE ELECTRICAL CONTRACTOR IS TO TAG ALL HIGH VOLTAGE WIRES SIMILAR TO ABOVE.
6. THE ELECTRICAL CONTRACTOR IS TO PROVIDE CABLE OF SUFFICIENT LENGTH TO EASILY COMPLETE ALL TERMINATIONS. THE ELECTRICAL CONTRACTOR IS TO NEATLY COIL AND SECURE ALL CABLES AT THE CONDUIT ENDS.
7. SPLICES IN THE EMS CABLE ARE NOT PERMITTED OTHER THAN WHERE CONNECTING TO SENSORS.
8. ALL HIGH VOLTAGE WIRING TO THE RACK PANELS AND OUTBOARD CONTROLLED DEVICES IS TO BE TERMINATED BY THE ELECTRICAL CONTRACTOR.
9. ALL PROBES AND SENSORS ARE TO BE SUPPLIED R.M. & INSTALLED BY R.C. CONNECTION OF THE SENSOR PROBE WIRES TO THE CABLE SHALL BE JOINED BY SOLDER JOINT, OR 3M UY CONNECTOR DO NOT USE WIRE NUTS FOR JOINTS/SPLICES.
10. CONDUIT STUB-UP LOCATIONS ARE TO MATCH CRITICAL CENTER LINE DIMENSIONS OF OTHER HIGH VOLTAGE UNDERFLOOR CONDUIT STUBS AS SHOWN ON SHEET R-1.
11. PERIMETER FIXTURE PROBE WIRING IS INTENDED TO BE OVERHEAD. DUE TO LOCATION OF PROBES AT THE TOP OF CASES THE ELECTRICAL CONTRACTOR, AT HIS OWN DISCRETION, MAY RUN WIRING UNDERGROUND PROVIDED IT IS IN A SEPARATE CONDUIT FROM HIGH VOLTAGE WIRING AND THE WIRING LENGTH IS SUFFICIENT TO REACH PROBES AT THE TOP OF THE CASES.
12. ALL ENERGY MANAGEMENT WIRING MUST BE DONE IN CONJUNCTION WITH OTHER ELECTRICAL WORK AND MUST BE COMPLETED PRIOR TO THE REFRIGERATION EQUIPMENT START-UP. THE ELECTRICAL CONTRACTOR IS TO COORDINATE WORK WITH THE R.C. FIELD REPRESENTATIVE AS NECESSARY.
13. STORE ENERGY METER CONNECTED TO 3 PHASE POWER IN REF CONTROL PANEL, E.C. TO RUN CT CLAMPS (SUPPLIED BY RACK MANUFACTURER) TO MAIN STORE DISTRIBUTION POWER.



4 R8-02 DIMMING MODULE CONTROL ZONES



5 R8-02 LIGHTING CONTACTOR WIRING DIAGRAM



6 R8-02 RTU UNIT CONTROL WIRING

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DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
97558PE
OREGON
DEC 31, 2025
RENJA NOROUZI

PROFESSIONAL IN CHARGE
RN
PROJECT MANAGER
GH
QUALITY CONTROL
JV
DRAWN BY
JV

PROJECT NAME

CENTRAL POINT, OR

4951 BIDDLE RD
CENTRAL POINT, OR
97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE

ENERGY MANAGEMENT WIRING DIAGRAMS

SHEET NUMBER

R8-02

Last Modified:2/26/2025 12:47:49 PM Drawing Name:Autodesk Docs://Grocery Outlet - Central Point, OR (0000) 1/GO_Central Point_OR_ACPK_R22.rvt

FOR REFRIGERATION EQUIPMENT PLATFORM

FOR REFRIGERATION EQUIPMENT ROOM (IF APPLICABLE)

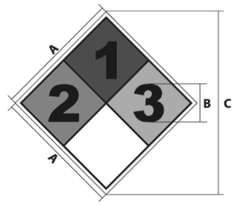
PLACARD SPECIFICATION:
BLOCK LETTERING WITH STROKE WHITE ON RED, OF DURABLE CONSTRUCTION
8" X 11" OVERALL SIZE
MOUNT OUTSIDE OF REFRIG. EQUIPMENT ROOM ENTRY DOOR (IF APPLICABLE),
OR VISIBLE LOCATION LEADING TO REFRIG. EQUIPMENT PLATFORM
REFER TO SHEET R5-31 FOR TYPICAL MOUNTING LOCATION

REFRIGERATION SYSTEM EMERGENCY INFORMATION PLACARD

1 R8-21 REFRIGERATION SYSTEM EMERGENCY INFORMATION PLACARD

NFPA 704 PLACARD
SYMBOL DEPLACARDATION
& DIMENSIONAL
REQUIREMENTS

PLACARD SPECIFICATION: PER NFPA
MOUNT OUTSIDE REFRIG. EQUIPMENT ROOM ENTRY DOOR (IF APPLICABLE),
OR VISIBLE LOCATION LEADING TO REFRIG. EQUIPMENT PLATFORM
REFER TO SHEET R5-31 FOR TYPICAL MOUNTING LOCATION



A Diamond Size:	B Character Height:	C Diamond Height	Legible Viewing Distance:
3 x 3"	1"	4.25"	1 to 40 ft.
6 x 6"	2"	8.50"	41 to 85 ft.
9 x 9"	3"	12.75"	86 to 135 ft.
11 x 11"	4"	15.50"	136 to 150 ft.
15 x 15"	6"	21.25"	151 to 200 ft.
20 x 20"	8"	28.25"	201 to 300 ft.
24 x 24"	10"	34.00"	301 to 400 ft.

2 R8-21 NFPA 704 HAZARD PLACARD

NOTICE: ACCESS TO REFRIGERATION EQUIPMENT LIMITED TO AUTHORIZED PERSONNEL ONLY

PLACARD SPECIFICATION:
BLOCK LETTERING WITH STROKE BLACK ON WHITE, OF DURABLE CONSTRUCTION
8" X 11" OVERALL SIZE
MOUNT OUTSIDE OF REFRIG. EQUIPMENT ROOM ENTRY DOOR (IF APPLICABLE), OR VISIBLE LOCATION LEADING TO
REFRIG. EQUIPMENT PLATFORM
REFER TO SHEET R6.2 FOR TYPICAL MOUNTING LOCATIONS

3 R8-21 ACCESS NOTICE PLACARD

NO STORAGE PERMITTED INSIDE THIS LOCATION

PLACARD SPECIFICATION:
BLOCK LETTERING WITH STROKE WHITE ON RED, OF DURABLE CONSTRUCTION
8" X 11" OVERALL SIZE
MOUNT OUTSIDE OF REFRIG. EQUIPMENT ROOM ENTRY DOOR (IF APPLICABLE), OR VISIBLE
LOCATION LEADING TO REFRIG. EQUIPMENT PLATFORM

4 R8-21 NOT STORAGE PERMITED PLACARD

IF DOOR IS LEFT OPEN ALARM WILL SIGNAL

PLEASE MAKE SURE TO KEEP THIS DOOR CLOSED AT ALL TIMES

PLACARD SPECIFICATION:
BLOCK LETTERING WITH STROKE BLACK ON YELLOW, OF DURABLE CONSTRUCTION
8" X 11" OVERALL SIZE
MOUNT OUTSIDE WALK IN BOXES, ADJACENT TO AMBER STROBE/HORN
REFER TO SHEET R5-31 FOR TYPICAL MOUNTING LOCATIONS

5 R8-21 DOOR OPEN ALARM PLACARD

ALARM SIGNAL INDICATES REFRIGERANT LEAK DETECTED. EVACUATE MONITORED AREA IMMEDIATELY AND NOTIFY STORE MANAGER

PLACARD SPECIFICATION:
BLOCK LETTERING WITH STROKE WHITE ON BLUE, OF DURABLE CONSTRUCTION
8" X 11" OVERALL SIZE
MOUNT OUTSIDE/INSIDE WALK-IN BOXES AND REFRIG. EQUIPMENT ROOM (IF APPLICABLE) OR
VISIBLE LOCATION LEADING TO REFRIG. EQUIPMENT PLATFORM, ADJACENT TO BLUE STROBE/HORN
REFER TO SHEET R5-31 FOR TYPICAL MOUNTING LOCATIONS

6 R8-21 REFRIGERANT LEAK ALARM PLACARD

REFRIGERATION COMPRESSOR RACK EMERGENCY SHUTDOWN

PLACARD SPECIFICATION:
BLOCK LETTERING WITH STROKE WHITE ON RED, OF DURABLE CONSTRUCTION
8" X 11" OVERALL SIZE
MOUNT ADJACENT TO BREAK GLASS SHUTDOWN SWITCH (IF APPLICABLE)
REFER TO SHEET R5-31 FOR TYPICAL MOUNTING LOCATION

7 R8-21 REFRIGERATION SHUTDOWN PLACARD (IF APPLICABLE)

EQUIPMENT ROOM EXHAUST FAN VENTILATION INDICATOR LIGHTS

GREEN: FAN OPERATING
RED: FAN NOT OPERATING

PLACARD SPECIFICATION:
BLOCK LETTERING WITH STROKE BLACK ON WHITE, OF DURABLE CONSTRUCTION
8" X 11" OVERALL SIZE
MOUNT ADJACENT TO REFRIG. EQUIPMENT ROOM VENTILATION LIGHTS (IF APPLICABLE)
REFER TO SHEET R5-31 FOR TYPICAL MOUNTING LOCATION

8 R8-21 EQUIPMENT ROOM VENTILATION PLACARD (IF APPLICABLE)

NO FORKLIFTS PERMITTED INSIDE THIS LOCATION

PLACARD SPECIFICATION:
BLOCK LETTERING WITH STROKE WHITE ON RED, OF DURABLE CONSTRUCTION
8" X 11" OVERALL SIZE
MOUNT OUTSIDE WALK-IN BOXES, ADJACENT TO ALL ENTRANCES
REFER TO SHEET R5-31 FOR TYPICAL MOUNTING LOCATION

9 R8-21 NO FORKLIFTS PLACARD

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
02/24/2025	PERMIT SET

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
97558PE
OREGON
DEC.31, 2025
PEZA NOROUZI

PROFESSIONAL IN CHARGE
GH
PROJECT MANAGER
GH
QUALITY CONTROL
JV
DRAWN BY
JV

PROJECT NAME
CENTRAL POINT, OR
4951 BIDDLE RD
CENTRAL POINT, OR 97502

PROJECT NUMBER
24-CA140-01

SHEET TITLE
REFRIGERATION PLACARDS

SHEET NUMBER
R8-21