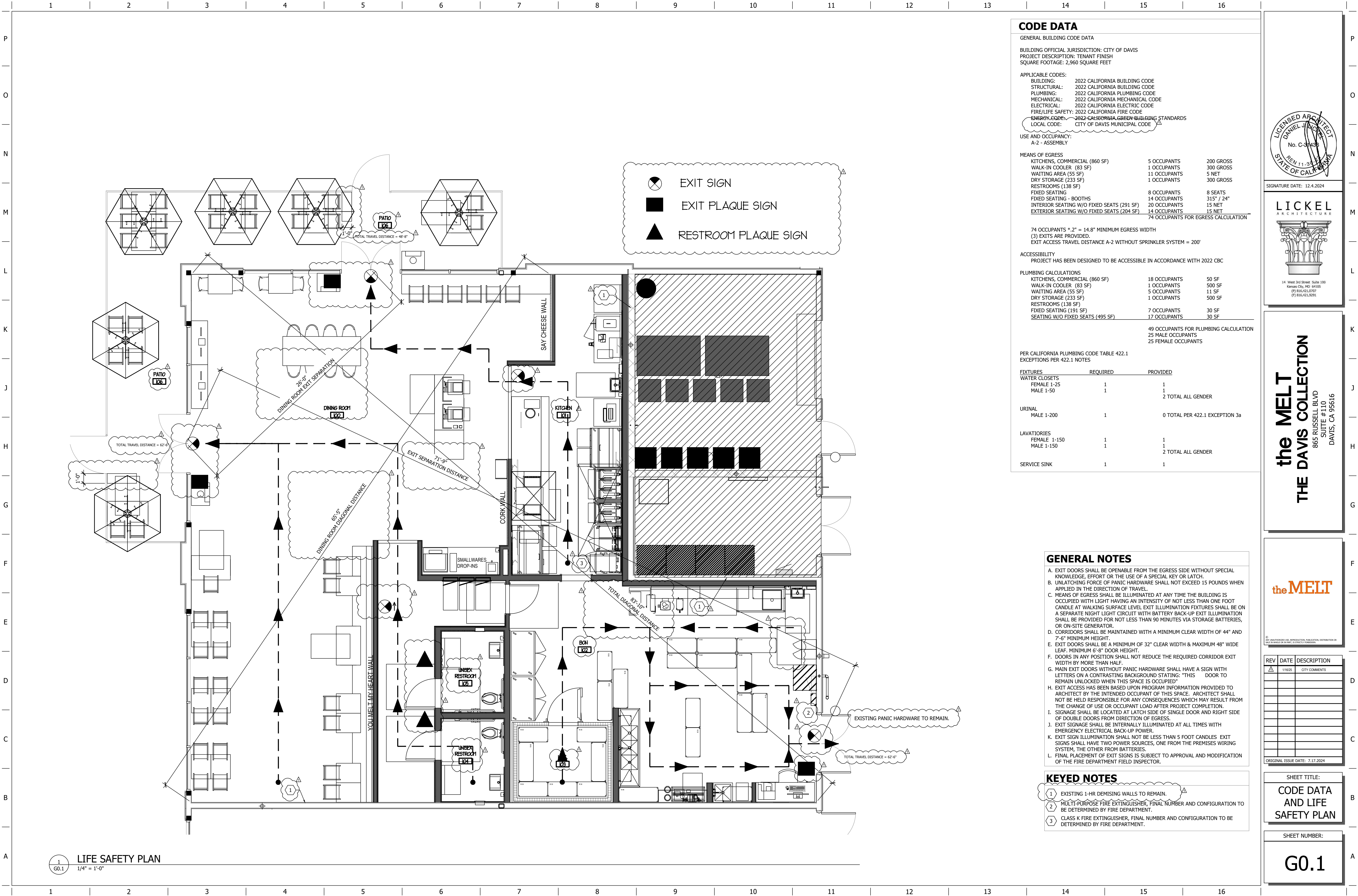


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	PROJECT GENERAL NOTES				SYMBOLS				theMELT				SHEET INDEX			
P	1. FIELD VERIFY ALL DIMENSIONS. 2. NOT USED. 3. REPLACE OR REPAIR DAMAGED, DETERIORATED OR UNSUITABLE SUBSTRATES AS REQUIRED TO RECEIVE NEW WALL FINISHES AS SCHEDULED. 4. NOT USED. 5. NOT USED. 6. CUT, REMOVE AND REPLACE EXISTING CONCRETE SLAB AS REQUIRED FOR INSTALLATION OF NEW UNDERFLOOR PIPING AND CONDUIT. 7. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES AND STANDARDS. 8. ALL REMODELED BUILDING ELEMENTS INCLUDED AS PART OF THIS PROJECT SHALL COMPLY WITH THE MOST CURRENT EDITION OF BUILDING CODE, AND LOCAL CODE. 9. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE AND BELOW GRADE UTILITIES, INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER'S REPRESENTATIVE. 10. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE BUILDING'S STRUCTURAL SYSTEM. STRUCTURAL MEMBERS, INCLUDING BEARING AND SHEAR WALLS, SHALL NOT BE REMOVED, CUT OR OTHERWISE MODIFIED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE. 11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS AND SHALL IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION. 12. GENERAL CONTRACTOR SHALL COORDINATE EXISTING STRUCTURE WITH NEW CONSTRUCTION INCLUDING MECHANICAL, FIRE PROTECTION AND ELECTRICAL WORK. 13. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES AND OTHER DEVICES REQUIRED. 14. ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS. 15. VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS PRIOR TO PROCEEDING WITH WORK. 16. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS. 17. THE DRAWINGS ARE NOT TO BE SCALED. FOR INFORMATION CONCERNING EXISTING PARTITIONS, ETC., VERIFICATION MUST BE DONE IN THE FIELD. 18. UPON COMPLETION OF PROJECT, OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY. 19. THESE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT. 20. ALL MEANS OF EGRESS AND FIRE PROTECTION SHALL BE MAINTAINED AT ALL TIMES AND ANY SHUT DOWN OF LIFE SAFETY OR BUILDING SYSTEMS SHALL BE APPROVED AND COORDINATED IN ADVANCE WITH THE OWNER AND LOCAL BUILDING DEPARTMENT. 21. GENERAL CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS FOR DETAILS 2, 5, 9, 10, AND 15/AB TO DETERMINE FOR CONNECTING TO STRUCTURE ABOVE. 22. ALL CHANGE ORDER REQUESTS SHALL BE SUBMITTED IN WRITING TO CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO MAKING ANY CHANGES. 23. G.C./SUBCONTRACTORS ARE RESPONSIBLE FOR MECHANICAL, ELECTRICAL AND PLUMBING PERMITS. 24. THE GENERAL CONTRACTOR IS RESPONSIBLE TO RECEIVE AND SECURELY STORE ALL OWNER SUPPLIED EQUIPMENT/ITEMS.				1 ROOM NAME 1 ROOM NUMBER 2 ELEV. NO. 3 INT. ELEV. SHEET 1 DIRECTION OF DETAIL ELEV. LETTER ELEV. SHEET 1 DIRECTION OF DETAIL LOCATION OF SECTION DETAIL SHEET DETAIL NUMBER 1 REVISION NUMBER 1 DOOR NUMBER 1 WINDOW NUMBER 1 EXTERNAL WALL FINISH NUMBER 1 SHEAR WALL TYPE 1 FRAMING HEADER NUMBER 1 KEYNOTE 1 EQUIPMENT ROUGH-IN CONNECTION, NUMBER 1 BLDG. HEIGHT REFERENCE POINT								TITLE			
									T1.0 TITLE SHEET							
									G.01 LIFE SAFETY PLAN							
									G.02 ABBREVIATIONS AND SYMBOLS							
									G.03 RESPONSIBILITY MATRIX							
									G.04 SPECIFICATIONS							
									G.05 SPECIFICATIONS							
									G.06 SPECIFICATIONS							
									G.07 GREEN BUILDING STANDARDS CHECKLIST							
O									ARCHITECTURAL							
									ADA1.0 ACCESSIBILITY REQUIREMENTS							
									A1.0 ARCHITECTURAL FLOOR PLAN							
									A1.1 CIRCULATION PLAN							
									A2.0 EQUIPMENT PLAN							
									A2.1 EQUIPMENT SCHEDULE							
									A2.2 EQUIPMENT SCHEDULE							
									A3.0 ROOF PLAN AND RELATED DETAILS							
									A4.0 RESTROOM PLAN AND DETAILS							
									A5.0 INTERIOR ELEVATIONS							
									A5.1 INTERIOR ELEVATIONS							
	A5.2 INTERIOR ELEVATIONS															
	A5.3 INTERIOR ELEVATIONS															
	A6.0 FINISH PLAN AND SCHEDULE															
	A6.1 DOOR AND HARDWARE SCHEDULE															
	A7.0 REFLECTED CEILING PLAN															
	A8.0 DETAILS															
	A8.1 DETAILS															
	A8.2 DETAILS															
N					ABBREVIATIONS											



CODE DATA

GENERAL BUILDING CODE DATA

BUILDING OFFICIAL JURISDICTION: CITY OF DAVIS

PROJECT DESCRIPTION: TENANT FINISH

SQUARE FOOTAGE: 2,960 SQUARE FEET

APPLICABLE CODES:

BUILDING: 2022 CALIFORNIA BUILDING CODE

STRUCTURAL: 2022 CALIFORNIA BUILDING CODE

PLUMBING: 2022 CALIFORNIA PLUMBING CODE

MECHANICAL: 2022 CALIFORNIA MECHANICAL CODE

ELECTRICAL: 2022 CALIFORNIA ELECTRIC CODE

FIRE/LIFE SAFETY: 2022 CALIFORNIA FIRE CODE

ENERGY CODE: 2022 CALIFORNIA GREEN BUILDING STANDARDS

LOCAL CODE: CITY OF DAVIS MUNICIPAL CODE

USE AND OCCUPANCY:

A-2 - ASSEMBLY

MEANS OF EGRESS

KITCHENS, COMMERCIAL (860 SF) 5 OCCUPANTS 200 GROSS

WALK-IN COOLER (83 SF) 1 OCCUPANTS 300 GROSS

WAITING AREA (55 SF) 11 OCCUPANTS 5 NET

DRY STORAGE (233 SF) 1 OCCUPANTS 300 GROSS

RESTROOMS (138 SF)

FIXED SEATING 8 OCCUPANTS 8 SEATS

FIXED SEATING - BOOTHS 14 OCCUPANTS 315" / 24"

INTERIOR SEATING W/O FIXED SEATS (291 SF) 20 OCCUPANTS 15 NET

EXTERIOR SEATING W/O FIXED SEATS (204 SF) 14 OCCUPANTS 15 NET

74 OCCUPANTS FOR EGRESS CALCULATION

74 OCCUPANTS * 2" = 14.8" MINIMUM EGRESS WIDTH

(3) EXITS ARE PROVIDED.

EXIT ACCESS TRAVEL DISTANCE A-2 WITHOUT SPRINKLER SYSTEM = 200'

ACCESSIBILITY

PROJECT HAS BEEN DESIGNED TO BE ACCESSIBLE IN ACCORDANCE WITH 2022 CBC

PLUMBING CALCULATIONS

KITCHENS, COMMERCIAL (860 SF) 18 OCCUPANTS 50 SF

WALK-IN COOLER (83 SF) 1 OCCUPANTS 500 SF

WAITING AREA (55 SF) 5 OCCUPANTS 11 SF

DRY STORAGE (233 SF) 1 OCCUPANTS 500 SF

RESTROOMS (138 SF) 7 OCCUPANTS 30 SF

FIXED SEATING (191 SF) 17 OCCUPANTS 30 SF

SEATING W/O FIXED SEATS (495 SF)

49 OCCUPANTS FOR PLUMBING CALCULATION

25 MALE OCCUPANTS

25 FEMALE OCCUPANTS

PER CALIFORNIA PLUMBING CODE TABLE 422.1

EXCEPTIONS PER 422.1 NOTES

FIXTURES REQUIRED PROVIDED

WATER CLOSETS

FEMALE 1-25 1 1

MALE 1-50 1 1

2 TOTAL ALL GENDER

URINAL

MALE 1-200 1 0 TOTAL PER 422.1 EXCEPTION 3a

LAVATORIES

FEMALE 1-150 1 1

MALE 1-150 1 1

2 TOTAL ALL GENDER

SERVICE SINK 1 1

GENERAL NOTES

- A. EXIT DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT SPECIAL KNOWLEDGE, EFFORT OR THE USE OF A SPECIAL KEY OR LATCH.
- B. UNLATCHING FORCE OF PANIC HARDWARE SHALL NOT EXCEED 15 POUNDS WHEN APPLIED IN THE DIRECTION OF TRAVEL.
- C. MEANS OF EGRESS SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH LIGHT HAVING AN INTENSITY OF NOT LESS THAN ONE FOOT CANDLE AT WALKING SURFACE LEVEL. EXIT ILLUMINATION FIXTURES SHALL BE ON A SEPARATE NIGHT LIGHT CIRCUIT WITH BATTERY BACK-UP. EXIT ILLUMINATION SHALL BE PROVIDED FOR NOT LESS THAN 90 MINUTES VIA STORAGE BATTERIES, OR ON-SITE GENERATOR.
- D. CORRIDORS SHALL BE MAINTAINED WITH A MINIMUM CLEAR WIDTH OF 44" AND 7'-6" MINIMUM HEIGHT.
- E. EXIT DOORS SHALL BE A MINIMUM OF 32" CLEAR WIDTH & MAXIMUM 48" WIDE LEAF. MINIMUM 6'-8" DOOR HEIGHT.
- F. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED CORRIDOR EXIT WIDTH BY MORE THAN HALF.
- G. MAIN EXIT DOORS WITHOUT PANIC HARDWARE SHALL HAVE A SIGN WITH LETTERS ON A CONTRASTING BACKGROUND STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED".
- H. EXIT ACCESS HAS BEEN BASED UPON PROGRAM INFORMATION PROVIDED TO ARCHITECT BY THE INTENDED OCCUPANT OF THIS SPACE. ARCHITECT SHALL NOT BE HELD RESPONSIBLE FOR ANY CONSEQUENCES WHICH MAY RESULT FROM THE CHANGE OF USE OR OCCUPANT LOAD AFTER PROJECT COMPLETION.
- I. SIGNAGE SHALL BE LOCATED AT LATCH SIDE OF SINGLE DOOR AND RIGHT SIDE OF DOUBLE DOORS FROM DIRECTION OF EGRESS.
- J. EXIT SIGNAGE SHALL BE INTERNALLY ILLUMINATED AT ALL TIMES WITH EMERGENCY ELECTRICAL BACK-UP POWER.
- K. EXIT SIGN ILLUMINATION SHALL NOT BE LESS THAN 5 FOOT CANDLES. EXIT SIGNS SHALL HAVE TWO POWER SOURCES, ONE FROM THE PREMISES WIRING SYSTEM, THE OTHER FROM BATTERIES.
- L. FINAL PLACEMENT OF EXIT SIGNS IS SUBJECT TO APPROVAL AND MODIFICATION OF THE FIRE DEPARTMENT FIELD INSPECTOR.

KEYED NOTES

- 1 EXISTING 1-HR DEMISING WALLS TO REMAIN.
- 2 MULTI-PURPOSE FIRE EXTINGUISHER, FINAL NUMBER AND CONFIGURATION TO BE DETERMINED BY FIRE DEPARTMENT.
- 3 CLASS K FIRE EXTINGUISHER, FINAL NUMBER AND CONFIGURATION TO BE DETERMINED BY FIRE DEPARTMENT.



SIGNATURE DATE: 12.4.2024



14 West 3rd Street, Suite 100
Kearney City, MO 64105
(P) 816.421.0707
(F) 816.421.9291

the MELT
THE DAVIS COLLECTION
865 RUSSELL BLVD
SUITE # 110
DAVIS, CA 95616

theMELT

REV DATE DESCRIPTION

Δ	1/18/25	CITY COMMENTS

ORIGINAL ISSUE DATE: 7.17.2024

SHEET TITLE:

CODE DATA
AND LIFE
SAFETY PLAN

SHEET NUMBER:

G0.1

DIVISION 06 - WOOD, PLASTICS, & COMPOSITE

SECTION 06600 - PLASTIC FABRICATIONS

- A. PRODUCT HANDLING
 1. STORAGE: STORE PACKAGED MATERIALS IN THEIR ORIGINAL UNBROKEN PACKAGES OR CONTAINERS.
- B. MATERIALS
 1. FIBERGLASS REINFORCED POLYESTER: "MARLITE FRP PANELS, (MARLITE), "FRP SELECT" (FORMICA), OR EQUAL.
 - a. DIMENSIONS:
 - THICKNESS: 3/32 IN., NOMINAL.
 - HEIGHT: 48 IN., WIDTH: TO BEST SUIT APPLICATION.
 - b. SURFACE BURNING CHARACTERISTICS: FLAME SPREAD INDEX OF 200 OR LESS, SMOKE DEVELOPED INDEX OF 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84 (CLASS I/II).
 - c. BATTENS, ADHESIVE AND SEALANT: MANUFACTURER'S STANDARD. WHERE EXPOSED, COLOR TO MATCH FIBER REINFORCED POLYESTER, UNLESS OTHERWISE NOTED.
- C. EXAMINATION
 1. VERIFICATION OF CONDITIONS: EXAMINE AREAS AND CONDITIONS UNDER WHICH PLASTIC FABRICATION ITEMS ARE TO BE INSTALLED. GIVE WRITTEN NOTIFICATION OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF WORK. DO NOT PROCEED WITH WORK UNTIL CONDITIONS ARE SATISFACTORY.
- D. PREPARATION
 1. FIELD MEASUREMENTS AND CONDITIONS: VERIFY IN FIELD, AS REQUIRED, FOR WORK FABRICATED TO FIT PROJECT CONDITIONS.
 2. TAKE PANELS OUT OF CARTONS AND ALLOW TO ACCLIMATIZE TO ROOM CONDITIONS FOR AT LEAST 48 HOURS PRIOR TO INSTALLATION.
- E. INSTALLATION
 1. GENERAL: SET WORK ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION; PLUMB, LEVEL, TRUE, AND FREE OF RATTLE OR VIBRATION WHERE EXPANSION CONTRACTION TOLERANCES ARE REQUIRED; MEASURED FROM ESTABLISHED LINES AND LEVELS.
 2. APPLY ADHESIVE TO THE ENTIRE BACK OF PANEL. INSTALL CONTINUOUS BEAD OF SILICONE SEALANT IN EACH JOINT AND BATTEN GROOVE AND BETWEEN BATTEN AND ADJACENT CONSTRUCTION, MAINTAINING 1/8 INCH EXPANSION SPACE. PROVIDE SEALANT AND BATTEN AT ALL HORIZONTAL AND VERTICAL EDGES OF FIBER REINFORCED POLYESTER.
 3. PROTECTION: PROTECT PLASTIC FROM DAMAGE TO SURFACE, PROFILES, AND SHAPE.

[illegible]

DIVISION 07 - THERMAL AND MOISTURE

SECTION 079000 - JOINT PROTECTION

A. PROVIDE JOINT SEALERS, INCLUDING CAULKING, AND BACKING MATERIAL FOR INTERIOR AND EXTERIOR JOINTS NOT SPECIFIED ELSEWHERE.

B. FINISH MATERIALS SHALL COMPLY WITH CALGREEN SECTIONS 5.504.4.1 THROUGH 5.504.4.6.

C. SAMPLES: PROVIDE FOR EACH EXPOSED JOINT SEALER.

D. CERTIFICATION: MANUFACTURERS CERTIFICATION JOINT SEALERS COMPLY WITH CONTRACT DOCUMENTS AND ARE SUITABLE FOR PROJECT APPLICATIONS.

E. JOB CONDITIONS: DO NOT INSTALL JOINT SEALERS UNDER UNFAVORABLE WEATHER CONDITIONS; INSTALL ELASTOMERIC SEALANTS WHEN TEMPERATURE IS IN LOWER THIRD OF MANUFACTURER RECOMMENDED TEMPERATURE RANGE.

F. WARRANTY: REPAIR OR REPLACE JOINT SEALERS WHICH FAIL TO PERFORM AS INTENDED, BECAUSE OF LEAKING, CRUMBLING, HARDENING, SHRINKAGE, BLEEDING, SAGGING, STAINING OR LOSS OF ADHESION.

G. MATERIALS: SELECT MATERIALS FOR COMPATIBILITY WITH JOINT SURFACES AND INDICATED EXPOSURES; SELECT MODULUS OF ELASTICITY AND HARDNESS RECOMMENDED BY MANUFACTURER FOR APPLICATION.

1. GENERAL EXTERIOR SEALANT: TREMCO/DOWNEIC, MARSECVULTECH 85Z, OR PECORA/DYNASTOL II MULTI-COMPONENT POLYURETHANE SEALANT; ASTM C500, TYPE M, GRADE NS, CLASS 25, NON-SAG.

2. TRAFFIC BEARING SEALANT: TREMCO/THO-800, MARSECVULTECH 24S, OR PECORA/RW-200 URESPAN MULTI-COMPONENT POLYURETHANE SEALANT; ASTM C500, TYPE M, GRADE P, CLASS 25, SELF-LEVELING.

3. INTERIOR WET AREA SEALANT: GE/SANITARY SEALANT, DOW/BATHTUB CAULK, TREMCO/PROGLAZE, OR PECORA/863 MILDEW-RESISTANT SILICONE RUBBER SEALANT COMPOUNDED SPECIFICALLY FOR MILDEW RESISTANCE.

4. INTERIOR GENERAL SEALANT: TREMCO/ACRYLIC LATEX OR PECORA/NAC-20 ACRYLIC OR MODIFIED ACRYLIC SEALANT, NON-STAINING AND NONBLEEDING; RECOMMENDED BY MANUFACTURER FOR GENERAL INTERIOR EXPOSURE.

5. PRIMER/SEALERS: NON-STAINING TYPES RECOMMENDED BY JOINT SEALER MANUFACTURER FOR JOINT SURFACES TO BE PRIMED OR SEALED.

6. JOINT CLEANERS: NON-CORROSIVE TYPES RECOMMENDED BY JOINT SEALER MANUFACTURER; COMPATIBLE WITH JOINT FORMING MATERIALS.

7. BOND BREAKER TAPE: POLYETHYLENE TAPE AS RECOMMENDED BY JOINT SEALER MANUFACTURER WHERE BOND TO SUBSTRATE OR JOINT FILLER MUST BE AVOIDED FOR PROPER PERFORMANCE OF JOINT SEALER.

8. SEALANT BACKER ROD: COMPRESSIBLE POLYETHYLENE FOAM ROD OR OTHER FLEXIBLE, PERMANENT, DURABLE NONABSORPTIVE MATERIAL AS RECOMMENDED BY JOINT SEALER MANUFACTURER FOR COMPATIBILITY WITH JOINT SEALER.

a. OVERSIZE BACKER ROD MINIMUM 30% TO 50% OF JOINT OPENING.

9. COLORS: PROVIDE COLORS INDICATED OR AS SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD COLORS.

DIVISION 08 - OPENINGS AND WINDOWS

SECTION 08100 - METAL DOORS AND FRAMES	
A.	PROVIDE FULL FLUSH DOORS AND PRESSED STEEL FRAMES, INCLUDING ANCHORS AND SLENDERS. PRESSED STEEL FRAMES INCLUDE BOTH DOOR AND WINDOW FRAMING.
B.	RELATED SECTIONS: SECTION 08700 - HARDWARE FOR DOORS
C.	REFERENCES: SEE DIVISION 05 FOR DECEASED SPECIFICATIONS - STANDARD STEEL DOORS AND FRAMES, NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUF. (NAAMM) HOLLOW METAL MANUAL
D.	SHOP DRAWINGS: INDICATE GENERAL CONSTRUCTION, CONFIGURATION, JOINTING METHODS, REINFORCEMENTS, ANCHORAGE METHODS, HARDWARE LOCATIONS, AND LOCATIONS OF CUT-OUTS.
E.	MANUFACTURERS:
1.	AMVELL BUILDING PRODUCTS INC.
2.	THE CECO CORPORATION
3.	POWER INDUSTRIES DIVISION, CECO INDUSTRIES, INC.
4.	FORERIDER CORNICUS WINDOWS
5.	SUBSTITUTIONS: REFER TO SECTION 01630.
F.	MATERIALS:
1.	DOORS: HOLLOW METAL, FLUSH TYPE - 1.34" THICK
2.	TYPICAL: SDI FULL FLUSH MODEL - 1 CLOSE TOP WITH FLUSH END CLOSER TERMINAL, BOTTOM OPTIONAL FLUSH OR RECESSED CHANNEL, STEEL STIFFENED CORE, INSULATED AT EXTERIOR DOORS
3.	OPTIONAL: NAAMM FULL FLUSH WITH UNFILLED EDGE SEAMS TYPE B, CLOSE TOP WITH FLUSH END CLOSER TERMINAL, BOTTOM OPTIONAL STEEL STIFFENED CORE, INSULATED AT EXTERIOR DOORS
4.	INTERIOR DOORS: SDI GRADE II HEAVY DUTY, NAAMM 18 GAGE
5.	EXTERIOR DOORS: SDI GRADE III EXTRA HEAVY DUTY, NAAMM 18 GAGE
6.	FRAMES: CONFORM TO SDI-100 AND NAAMM 16.0 LOW METAL MANUAL
7.	A. EXTERIOR FRAMES: WELDED (PRE-ASSEMBLED) TYPE
8.	B. INTERIOR FRAMES: KNOCKDOWN (FIELD-ASSEMBLED) TYPE
9.	C. GAGE: MINIMUM 16 GAGE
10.	D. DOOR SLENDERS: MANUFACTURERS STANDARD RESILIENT TYPE; REMOVABLE FOR REPLACEMENT
11.	E. MORTAR GARD BANDS: MINIMUM 22 GAGE, WELDED IN PLACE; PROVIDE WHERE FRAMES MAY BE GROUDED.
G.	FABRICATION
1.	CONFORM TO REQUIREMENTS OF SDI OR NAAMM
2.	REINFORCE AND PREPARE FRAMES TO ACCOMMODATE FORM AND FIELD RECEIVE HARDWARE
3.	REFER TO SECTION 08700 FOR HARDWARE REQUIREMENTS
4.	FRAMES:
5.	A. WELDED FRAMES: ACCURATELY FORM AND CUT MITERED CORNERS OF WELDED TYPE FRAMES; WELD ON INSIDE SURFACES. GRIND WELDED JOINTS TO SMOOTH UNIFORM FINISH.
6.	B. KNOCKDOWN FRAMES: FRAMES ACCORDING WITH SDI-100 AND SDI 100; OR NAAMM HOLLOW METAL MANUAL; AND WITH MANUFACTURERS RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS. INSTALL DOOR FRAMES PLUMB AND SQUARE
7.	C. HEAD REINFORCEMENT: REINFORCE FRAMES WIDER THAN 4'-0" WITH MINIMUM 12 GAGE FORMED STEEL CHANNELS WELDED IN PLACE, FLUSH WITH TOP OF FRAMES.
8.	DOOR SLENDERS:
9.	A. PLACE MINIMUM THREE SINGLE BUMPERS ON SINGLE DOOR FRAMES; SPACE EQUALLY ALONG STRIKE JAMBS
10.	B. PLACE MINIMUM OF TWO SINGLE BUMPERS ON DOUBLE DOOR FRAMES; PLACE ON FRAME HEADS
11.	6. PROVIDE JAMB ANCHORS PER SDI-100 AND NAAMM; WELD FLOOR JAMB ANCHORS IN PLACE
12.	PROVIDE DOUBLE DOORS AND FRAMES: ACCORDING WITH SDI-100 AND SDI 100; OR NAAMM HOLLOW METAL MANUAL
13.	E. DOOR CLEARANCES:
14.	A. BETWEEN DOORS AND FRAMES: MAXIMUM 1/8" AT HEAD AND JAMBS
15.	B. DOOR SILLS (NO THRESHOLD): MAXIMUM 3/8"
16.	C. DOOR SILLS (THRESHOLD): MAXIMUM 3/4" ABOVE FINISHED FLOOR
H.	FINISH: COMPLY WITH REQUIREMENTS OF SECTION 08900 FOR PRIMER INCLUDING APPLICATION AND COMPATIBILITY WITH SPECIFIED FINISHES
1.	INTERIOR UNITS: PRIME PAINT
2.	EXTERIOR EXPOSED UNITS: APPLY MINIMUM AND NON-SPANGLE GALVANIZED COATING, ASTA AGMA AND MATERIALS
3.	SURFACE TREAT AFTER GALVANIZING TO REMOVE OILS AND PREPARE FOR PAINTING AND APPLY ONE COAT OF PRIMER, COMPLY WITH REQUIREMENTS IN SECTION 08900 - PAINTS AND COATINGS
4.	INSTALLATION: INSTALL DOORS AND FRAMES IN ACCORDANCE WITH SDI-100 AND SDI 100; OR NAAMM HOLLOW METAL MANUAL; AND WITH MANUFACTURERS RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS. INSTALL DOOR FRAMES PLUMB AND SQUARE
5.	HANDWARE: INSTALLATION WITH REQUIREMENTS OF SECTION 08700; REMOVE OR REPLACE DOORS AND FRAMES DAMAGED DURING DELIVERY, STORAGE, INSTALLATION AND CONSTRUCTION; PLACE FILLER PAPER SHALL NOT BE PERMITTED; AFTER INSTALLATION, TOUCH-UP SCRATCHED PAINT SURFACES
SECTION 08200 - SLIDING DOOR ENTRANCES	
A.	PROVIDE AUTOMATIC DOORS THAT HAVE BEEN DESIGNED AND FABRICATED TO COMPLY WITH SPECIFIED PERFORMANCE REQUIREMENTS, AS DEMONSTRATED BY TESTING MANUFACTURERS CORRESPONDING SYSTEMS.
B.	RELATED SECTIONS: SECTION 08700 - HARDWARE FOR DOORS
C.	REFERENCES: REFER TO THE VERSION YEAR ADOPTED BY THE AUTHORITY HAVING JURISDICTION, 1. ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.
1.	DOORS AND FRAMES: EXTRUDED ALUMINUM, ALU 6063 T5
2.	DOOR LEAF THICKNESS: 1 1/2" MINIMUM (32 MM) STRUCTURAL WALL THICKNESS THROUGHOUT ENTIRE EXTRUSION LENGTH
3.	HEADER MADE FROM EXTRUDED ALUMINUM AND EXTENDING THE FULL WIDTH OF THE AUTOMATIC DOOR. 4'-0" MINIMUM (1219 MM) CLEARANCE FROM TOP OF DOOR. SHALL CONCEAL ALL OPERABLE PARTS, CARRIER ASSEMBLIES AND ROLLER TRACKS. UNITS IS TO BE REMOVABLE ACCESS PANELS FOR ADJUSTMENT AND SERVICE OF OPERATOR AND CONTROLS
4.	BOTTOM RAILS SHALL BE STANDARD SIZE: 4 INCH (9 1/4 INCH) 10 INCH NOMINALLY
5.	WEATHER STRIPPING SHALL MEET ANAS 701.1 CLASS A, SLIDE TYPE, REPLACEABLE NYLON RETAINED BY THE ALUMINUM EXTRUSION TO REDUCE ENERGY LOSS. THE FOLLOWING TYPES OF WEATHER STRIPPING ARE REQUIRED: MINIMUM 1/2" WEATHER STRIPPING ON TOP AND BOTTOMS; DUAL PILE WEATHER STRIPPING AT SLIDING DOOR LEAD EDGES; WEATHER STRIPPING BETWEEN THE CARRIER AND HEADER OF THE SLIDING DOORS; DUAL PILE WEATHER STRIPPING AT THE INTERLOCK RAILS BETWEEN THE SLIDING DOORS AND SILL/DOLTS; DUAL PILE WEATHER STRIPPING BETWEEN THE SILL/DOLTS OF THE DOORS AND THE DOOR JAMBS
6.	GLASS: GLAZING SHALL COMPLY WITH ANS AND 297.1 THICKNESS AS INDICATED
7.	GLAZING ACTIVE DOOR PANELS 12" (305 MM) TEMPERED UNLESS OTHERWISE SPECIFIED
8.	GLAZING SILLING DOOR PANELS 22" (559 MM) TEMPERED UNLESS OTHERWISE SPECIFIED
9.	GLAZING TRANSOM PANEL 14" (355 MM) TEMPERED, UNLESS OTHERWISE SPECIFIED
10.	GLAZING INSTALLATION: REVIEW DIVISION 5 SECTION FOR GLAZING REQUIREMENTS
E.	ALUMINUM FINISHES
1.	COMPLY WITH NAAMMS' METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS FOR RECOMMENDATIONS FOR APPLYING AND DESIGNATING FINISHES
2.	ANODIZED FINISH:
3.	A. CLEAR ANODIZED FINISH: ANAMA 611, AA-M1222431, CLASS II, 0.10 MIL
4.	B. DARK BRONZE ANODIZED FINISH: ANAMA 611, AA-M1222444, CLASS I, 0.10 MIL
5.	C. COLOR ANODIZED FINISH: ANAMA 611, AA-M1222444, CLASS I, 0.10 MIL (TO MATCH ARCHITECTS SAMPLE)
3.	PAINTED FINISH:
4.	A. POWDER COAT PAINTED TO MATCH ARCHITECTS SAMPLE (MANUFACTURERS STANDARD COLORS)
5.	B. KYNAR PAINT FINISH: 2 COAT (1/2 COAT) (TO MATCH ARCHITECTS SAMPLE)
6.	CLAD FINISH: GLAZING SHALL BE COATED BY COAT (TO MATCH ARCHITECTS SAMPLE) USING .36 THICK METAL CLADDING PANEL SURFACE UTILIZING TENSILE 4800 TYPE, TENSILE AND HUMIDITY RESISTANT, THE SPECIALIZED ADHESIVE. THIS IS COMPOSED OF A POLYESTER BACKING COATED ON BOTH SIDES WITH A TRANSPARENT MODIFIED ACRYLIC ADHESIVE AND A TENSILE STRENGTH OF 20 NCM. TENSILE 4800 IS RECOGNIZED PER A STANDARD 880.1 (L.F.E. 181 1855)
7.	A. STAINLESS STEEL WITH #4 SATIN FINISH
8.	B. STAINLESS STEEL WITH #8 MIRROR-LIKE FINISH
9.	C. BRONZE WITH SATIN FINISH
10.	D. BRONZE WITH POLISHED, NON-DIRECTIONAL FINISH
11.	E. BRASS WITH SATIN FINISH
12.	F. BRASS WITH POLISHED, NON-DIRECTIONAL FINISH
F.	INSTALLATION:
1.	STRUCTURAL: DO NOT INSTALL DAMAGED COMPONENTS. FIT FRAME JOINTS TO PRODUCE HARLINE JOINTS FREE OF BURRS AND DISTORTION. RIGIDLY SECURE NON-MOVEMENT JOINTS.
2.	ENTRANCES: INSTALL AUTOMATIC ENTRANCES PLUMB AND TRUE IN ALIGNMENT WITH GRADESTRAIGHT LINES AND CRACKS WITHOUT WARP OR BACK OF FRAMING MEMBERS AND DOORS. ANCHOR SECURELY IN PLACE
3.	A. INSTALL SURFACE MOUNTED HANGERS USING CONCEALED FASTENERS TO ESTABLISH EXTENT POSSIBLE
4.	B. SET HEADERS, CARRIER ASSEMBLIES, TRACKS, OPERATING BRACKETS, AND GUIDES LEVEL AND TRUE TO LOCATION
5.	C. DOOR OPERATORS: CONNECT DOOR OPERATORS TO ELECTRICAL POWER DISTRIBUTION SYSTEM AS SPECIFIED IN DIVISION 5 SECTIONS
6.	GLAZING: INSTALL GLAZING AS SPECIFIED IN DIVISION 5 SECTION GLAZING ACCORDING TO AUTOMATIC DOOR MANUFACTURERS INSTRUCTIONS
7.	SEALANTS: COMPLY WITHOUT WARP OR BACK OF FRAMING MEMBERS AND DOORS. ANCHOR SECURELY TO PROVIDE WEATHERTIGHT INSTALLATION
8.	SIGNAGE: APPLY SIGNAGE ON BOTH SIDES OF EACH DOOR AND EACH SIDELIGHT AS REQUIRED BY ANSISMA 14.16.01
G.	CLEANING AND PROTECTION
1.	REMOVE ALL GLAZING MATERIAL SURFACES PROMPTLY AFTER INSTALLATION. REMOVE EXCESS GLAZING AND SEALANT COMPOUNDS, DIRT, AND OTHER SUBST

DIVISION 08 - OPENINGS AND WINDOWS

SECTION 08400 - STOREFRONTS

A. PROVIDE STOREFRONT, COMPLETE, AS SHOWN AND SPECIFIED.

B. COMPLY WITH AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA) ALUMINUM STOREFRONT AND ENTRANCE MANUAL.

C. PERFORMANCE REQUIREMENTS:

- WIND LOAD PRESSURE: WITHSTAND MAXIMUM POSITIVE (INWARD ACTING) AND NEGATIVE (OUTWARD ACTING) PRESSURES PER APPLICABLE CODE.
- STRUCTURAL PROPERTIES OF FRAMING DEFLECTION:
 - GENERAL: UNDER WIND LOAD PRESSURE; DO NOT EXCEED FOLLOWING CLEAR SPAN DEFLECTIONS:
 - NORMAL TO WALL PLANE: GENERAL: L/175 OR 3/4-INCH, WHICHEVER IS LESS, EXCEPT LOBBY AT MEMBERS ADJACENT TO GLASS OR GYPSUM BOARD SURFACES.
 - PARALLEL TO WALL PLANE:
 - GENERAL: UNLESS OTHERWISE REQUIRED FOR SEISMIC DIRT, 75 PERCENT OF DESIGN CLEARANCE DIMENSIONS OR 18-INCH VERTICALLY AND 3/8-INCH HORIZONTALLY, WHICHEVER IS LESS, BETWEEN MEMBERS AND ADJACENT GLASS, PANEL, OR OTHER PART IMMEDIATELY ADJACENT.
 - DOOR HEADERS: HORIZONTAL MEMBERS OVER DOORS: 1/16-INCH.
 - SEALANT INTEGRITY: DO NOT EXCEED DYNAMIC MOVEMENT CAPACITY OF SEALANT.
- WATER INFILTRATION NO LEAKAGE WHEN TESTED IN ACCORDANCE WITH ASTM E331 AT A TEST PRESSURE OF 2.4 PSI.
- AIR INFILTRATION: MAXIMUM OF 0.06 CFM PER SQUARE FOOT OF FIXED AREA AT EACH FACE OF THE FRAME.
- EXPANSION: PROVIDE FOR HORIZONTAL AND VERTICAL THERMAL EXPANSION WITH TEMPERATURE RANGE OF 150 DEGREES F.

D. MANUFACTURER: KAWNEER, WAUSAU, OR EQUAL.

E. MATERIALS:

- ALUMINUM:
 - RECYCLED CONTENT: ALUMINUM SHALL CONTAIN NOT LESS THAN 40% PRE-CONSUMER RECYCLED CONTENT.
 - PROVIDE ALLOY AND TEMPER RECOMMENDED BY ALUMINUM PRODUCER OR FINISHER FOR TYPE OF USE AND FINISH INDICATED, AND WITH NOT LESS THAN STRENGTH AND DURABILITY PROPERTIES OF ALLOY AND TEMPER DESIGNATED BELOW FOR EACH ALUMINUM FORM REQUIRED.
 - EXTRUSIONS: ASTM B221, 6063-T6 ALLOY AND TEMPER.
 - TUBE AND PIPE: ASTM B221, 6063-T6 ALLOY AND TEMPER.
 - SHEET AND PLATE: ASTM B209, 6061-T6 ALLOY AND TEMPER.
 - SCREWS, MISCELLANEOUS FASTENING DEVICES, AND INTERNAL COMPONENTS: STAINLESS STEEL OR OTHER ACCEPTABLE MATERIALS.
 - CORROSION RESISTANT: BITUMINOUS PAINT.
- FINISHES:
 - ALUMINUM: PROVIDE 2-COAT FLUOROPOLYMER FINISH, TO MATCH EXISTING. FLUOROPOLYMER FINISH SHALL MEET AAMA 2605.
 - PROTECT ISOLATE ALUMINUM SURFACES POTENTIALLY IN CONTACT WITH CONCRETE OR DISSIMILAR METALS BY HEAVY COATING OF BITUMINOUS PAINT.
- INSTALLATION:
 - PERFORM WORK PER MANUFACTURER'S RECOMMENDATIONS, REFERENCE STANDARDS, AND AS SHOWN. INSTALL WORK PLUMB, LEVEL, SQUARE, IN PROPER ALIGNMENT AND RELATIONSHIP TO OTHER WORK, AND SECURELY FASTEN TO SUBSTRATE.
 - REINFORCEMENT: PROVIDE STEEL OR ALUMINUM REINFORCEMENT AND SUBIRRIGAS AS REQUIRED TO COMPLY WITH DESIGN REQUIREMENTS.
 - ANCHORAGE: ANCHOR WORK IN PLACE USING FASTENERS, BADING, OR ANCHOR STRAPS AS REQUIRED, UNLESS OTHERWISE SHOWN OR ACCEPTED. CONCEAL CONNECTIONS AND FASTENINGS IN FINISHED WORK. FINISH DRILL HOLES PATTERNED TO MATCH HOORING METAL.
 - GLAZING GASKETS: INSERT AT INTERIOR SIDE OF ALUMINUM GLASS RABBETS PRIOR TO ASSEMBLING OF GRID-FRAMING MATERIAL. TAKE CARE TO ENSURE PROPER SEATING OF INTERIOR GASKETS TO REFORC CONTINUOUS CONTACT WITH GLASS AROUND PERIMETER OF GLAZED OPENING.
 - FINISHED METAL: WORK FREE OF WAVES, BUCKLES, DENTS, OR OTHER DEFECTS; ANCHORED SECURELY TO SURREROUNDING CONSTRUCTION AS SHOWN AND REQUIRED.
 - MOLDINGS JOINED AT CORNERS: ACCURATELY CUT AND NEATLY FIT TO RESULT IN TIGHTLY CLOSED Joints.
- CLEANING:
 - AFTER INSTALLATION, PROTECT EXPOSED PORTIONS OF DOORS AND FRAMING FROM DAMAGE BY TOOLS, PLASTER, LIMES, ACID, CEMENT, OR OTHER COMPOUNDS.
 - REPLACE MARRED, DEGRADED, SCRATCHED, OR OTHER DEFECTIVE ITEMS WITH ACCEPTABLE MEMBERS AT NO ADDITIONAL COST TO OWNER.

SECTION 08700 - HARDWARE

A. PROVIDE COMPLETE, CODE CONFORMING FINISH HARDWARE INSTALLATION AS REQUIRED FOR FULLY OPERATIONAL FACILITIES, INCLUDING WORK REQUIRED FOR PROPER COMPLETION OF PROJECT, THOUGH NOT DEFINITELY SPECIFIED HEREIN. LOCKS, CYLINDERS AND CLOSERS SHALL BE BY SAME MANUFACTURER AND SAME MODEL AND FINISH AS EXISTING HARDWARE.

B. CABINET HARDWARE: PROVIDED IN SECTION 08400 - ARCHITECTURAL WOODWORK.

C. TEMPLATES : FURNISH TEMPLATES OR PHYSICAL HARDWARE ITEMS TO DOOR AND FRAME MANUFACTURERS AS REQUIRED TO ENSURE PROPER PREPARATION FOR HARDWARE.

D. ANCHORAGE: SECURELY ANCHOR WITH APPROPRIATE FASTENING DEVICES, FINISH EXPOSED FASTENERS TO MATCH HARDWARE.

E. KEYING: REVIEW KEYING OF DOORS WITH CLIENT.

- PROVIDE ONE SET OF CONSTRUCTION CORES AND TWO CONSTRUCTION CONTROL KEYS.
- DOOR CLOSERS (EXCEPT SAFETY GLASS ENTRY DOORS), DOOR MOUNTED: PROVIDE TOOLS FOR CLOSER ADJUSTMENT AND OPERATING INSTRUCTIONS TO SITE MANAGER AT CONCLUSION OF JOB.
- ADJUST DOOR CLOSERS PRIOR TO ACCEPTANCE.
- MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR INTERIOR DOORS, 5 LBS. FOR EXTERIOR DOORS, AND THE MINIMUM OPERATING FORCE ALLOWABLE BY THE APPROPRIATE AUTHORITY, BUT NOT TO EXCEED 15 LBS. FOR EXTERIOR DOORS.
- HEX BOLTS AND GROMET NUTS SHALL NOT BE PERMITTED; COORDINATE TEMPLATES AND REINFORCING WITH DOOR AND FRAME MANUFACTURERS.

D. INSTALLATION: INSTALL HARDWARE IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS.

- RIGHTS OF ITEMS SHALL CONFORM WITH APPLICABLE CODES; INSTALL ITEMS NOT SHOWN ON DRAWINGS IN ACCORDANCE WITH RECOMMENDATIONS OF BUILDERS HARDWARE MANUFACTURERS ASSOCIATION.
- MOUNTING POSITIONS SUBJECT TO APPROVAL BY ARCHITECT.
- FIT HARDWARE PRIOR TO PAINTING, THEN REMOVE FOR PAINTING OF DOORS AND FRAMES BEFORE FINAL INSTALLATION OF HARDWARE.

SECTION 08800 - WINDOW FILM

A. PROVIDE WINDOW FILM, COMPLETE AS SHOWN AND SPECIFIED.

B. SAMPLES: SUBMIT EACH TYPE OF FILM SAMPLE OF GLASS TO RECEIVE WINDOW FILM ON THE PROJECT; 6 IN SQUARE.

C. QUALITY ASSURANCE:

- COMPLY WITH APPLICABLE REQUIREMENTS OF THE LAWS, CODES & REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- QUALIFIED INSTALLER TO HAVE 5 YEARS EXPERIENCE IN THE INSTALLATION OF SPECIFIED MATERIALS ON COMPARABLE PROJECTS.

D. PRODUCT HANDLING: DELIVER PRODUCTS IN MANUFACTURERS UNOPENED CONTAINERS FULLY IDENTIFIED, PROTECT FROM SCRATCHES & ABRASIONS.

E. PRODUCT CONDITIONS: PREPARE, SUBSTITUTE AND INSTALL THE WORK, INCLUDING COMPONENTS & ACCESSORIES IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. EXAMINE THE AREAS TO RECEIVE WORK AND REMEY DETRIMENTAL CONDITIONS.

F. MATERIALS:

- GLAZING FILM TO BE APPLIED TO INTERIOR SIDE OF GLASS:
 - OPAQUE: MS FASMA OPAQUE WHITE OR APPROVED EQUAL. CONTACT: PAUL MURPHY, WINDOW SOLUTIONS : (800-856-6662) ; 800-400-7844
 - TRANSLUCENT: ASWF - WHITE Frost
 - CLEAR UV ASWF - UV CLEAR WINDOW FILM OR APPROVED EQUAL.

G. INSTALLATION UNLESS OTHERWISE SHOWN OR SPECIFIED, COMPLY WITH RECOMMENDATIONS & REQUIREMENTS OF THE "GANA" SEALANT MANUAL, A "GLAZING MANUAL". INSTALL GLAZING FILM IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. FILM SHALL BE NEAT & STRAIGHT AND SHALL COVER ENTIRE LIFE OF GLASS.

H. CLEANING & PROTECTION: CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF GLASS AND FILM FROM DAMAGE AFTER INSTALLATION UNTIL SUBSTITUTION COMPLETION. REMOVE & REPLACE GLASS & FILM DAMAGED OR BROKEN BEFORE SUBSTITUTIONAL COMPLETION AT NO COST TO OWNER.



SIGNATURE DATE: 12.4.2024

LICKEL
ARCHITECTURE



14 West 3rd Street Suite 100
Kearney City, MO 64105
(P) 816-421-0707
(F) 816-421-3291

the MELT

THE DAVIS COLLECTION

865 RUSSELL BLVD
SUITE # 110
DAVIS, CA 95616

theMELT

© 2024 THE DAVIS COLLECTION. ALL RIGHTS RESERVED. REPRODUCTION OR SALE IN WHOLE OR IN PART, IS EXPRESSLY FORBIDDEN.

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 7.17.2024

SHEET TITLE:

SPECIFICATIONS

SHEET NUMBER:

C05

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
P																		P
O																		O
N																		N
M																		M
L																		L
K																		K
J																		J
H																		H
G																		G
F																		F
E																		E
D																		D
C																		C
B																		B
A																		A
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		



Community Development and Sustainability Department
23 Russell Boulevard, Suite 2 Davis, California 95616
Phone: (530)757-5610 Fax: (530)757-5660 TDD: (530)757-5666
Website: www.cityofdavis.org/CDSD
Email: cdsweb@cityofdavis.org

CAL-GREEN COMMERCIAL
ADDITION/REMODEL CHECKLIST

Address: 865 Russell Blvd, #110 Permit:

Check all measures that apply to your project in the "Required" column and place a check mark in the "N/A" column for all measures that do not apply to your project. This form is a part of your approved plans and must be made available to the Building Inspector at time of inspection.

CAL-GREEN NON-RESIDENTIAL ROOM ADDITION / REMODEL APPLICATION CHECKLIST

Feature or Measure	Required	N/A	Approval
A5.203.1 Energy performance. Using an Alternative Calculation Method approved by the California Energy Commission, calculate each nonresidential building's TDV energy and CO2 emissions and compare it to the standard or "budget" building. A5.203.1.1 Tier 1. Exceed California Energy Code requirements, based on the 2008 Energy Efficiency Standards, by 15 percent.		X	
5.303.1 Meters. Separate meters shall be installed for the uses described in Sections 503.1.1 through 503.1.3. 5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows: 1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day. 2. For spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory or beauty salon or barber shop projected to consume more than 100 gal/day. 5.303.2 30 percent savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 30 percent shall be provided. (Calculate savings by Water Use Worksheets)	X		
		X	

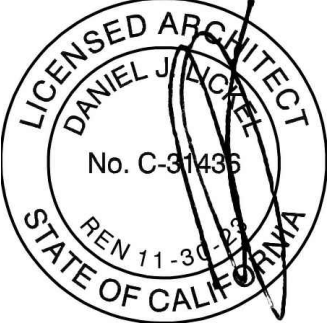
P:\BLDG\Forms\Website 2011\Green Commercial Addition-Remodel Checklist.doc

Rev. 1/6/2012

5.303.2.1 Multiple showerheads serving one shower. When single shower fixtures are served by more than one showerhead, the combined flow rate of all the showerheads shall not exceed the maximum flow rates specified in the 20 percent reduction column contained in Table 5.303.2.3 or the shower shall be designed to only allow one showerhead to be in operation at a time.		X	
A5.303.2.3.1 Tier 1 – 30 percent savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 30 percent shall be provided. OR comply with table 5.303.2.3 "Fixture Flow Rates"		X	
A5.405.4 Recycled content, Tier 1. Use materials, equivalent in performance to virgin materials, with postconsumer or preconsumer recycled content value (RCV) equaling at least 10 percent of the total value, based on estimated cost of materials on the project. Provide documentation as to the respective values.		X	
A5.408.3.1 Enhanced construction waste reduction. Divert to recycle or salvage nonhazardous construction and demolition debris generated at the site in compliance with one of the following: Tier 1. At least a 65 percent reduction		X	
5.504.3 Covering of 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.	X		
5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.4. Complete and sign VOC self certification from to verify compliance.	X		
5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a MERV of 8.	X		
5.508.1 Ozone depletion and global warming reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2. 5.508.1.1 CFCs. Install HVAC and refrigeration equipment that does not contain CFCs. 5.508.1.2 Halons. Install fire suppression equipment that does not contain Halons.		X	

Reviewed & Approved By _____ Date _____

Page 2 of 2



SIGNATURE DATE: 12.4.2024



14 West 3rd Street Suite 100
Kansas City, MO 64105
(P) 816.421.0707
(F) 816.421.9291

the MELT
THE DAVIS COLLECTION
865 RUSSELL BLVD
SUITE # 110
DAVIS, CA 95616



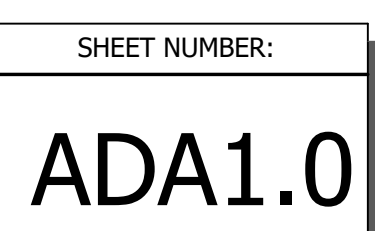
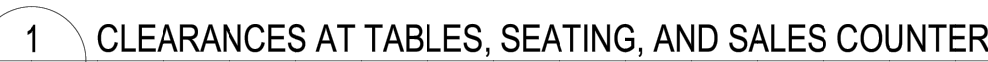
theMELT

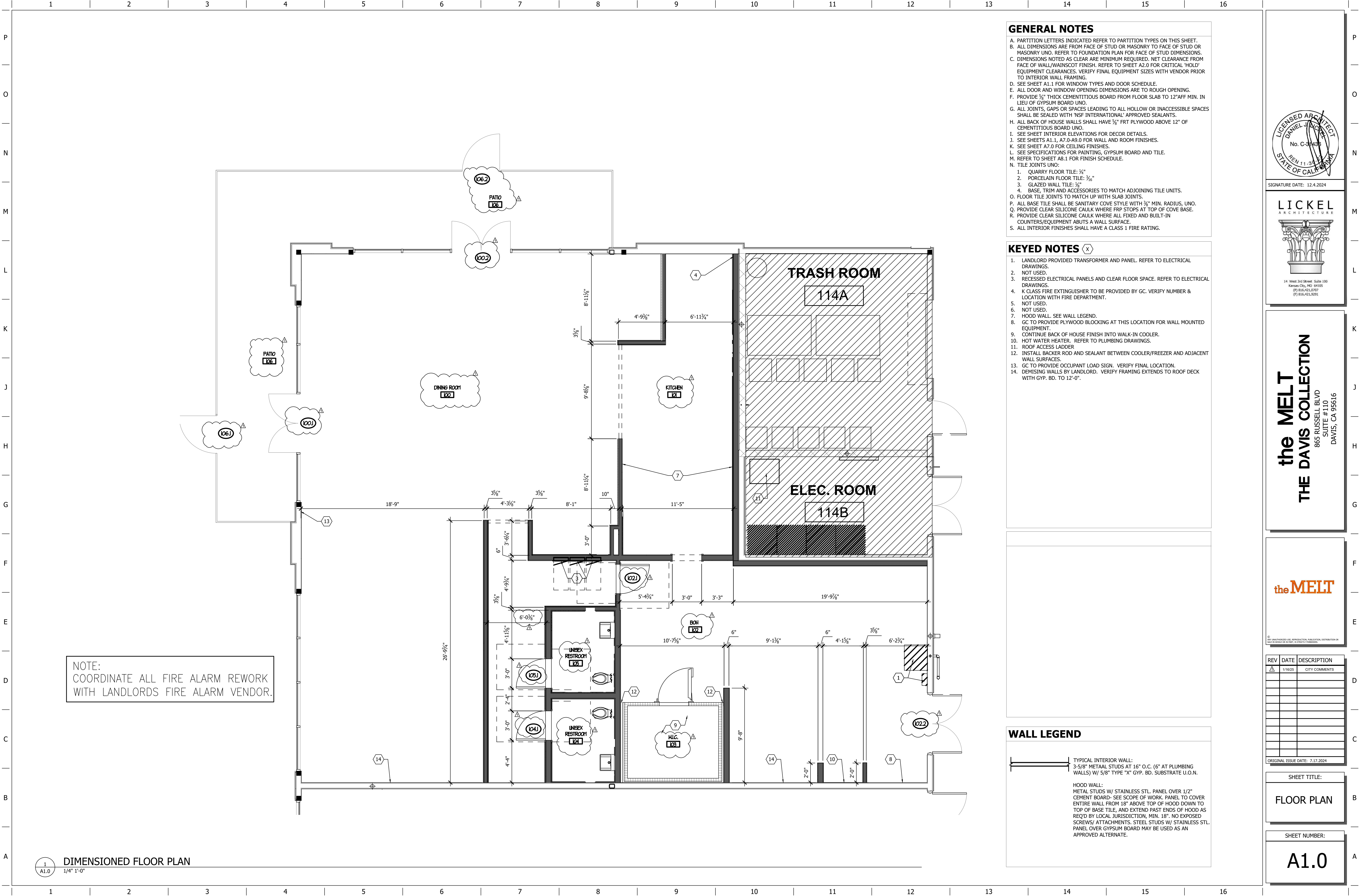
REV	DATE	DESCRIPTION
Δ	1/16/25	CITY COMMENTS

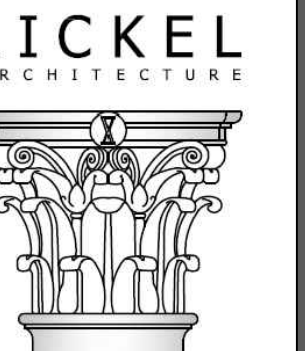
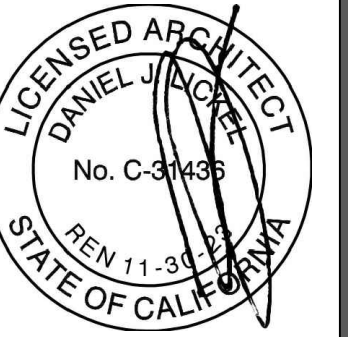
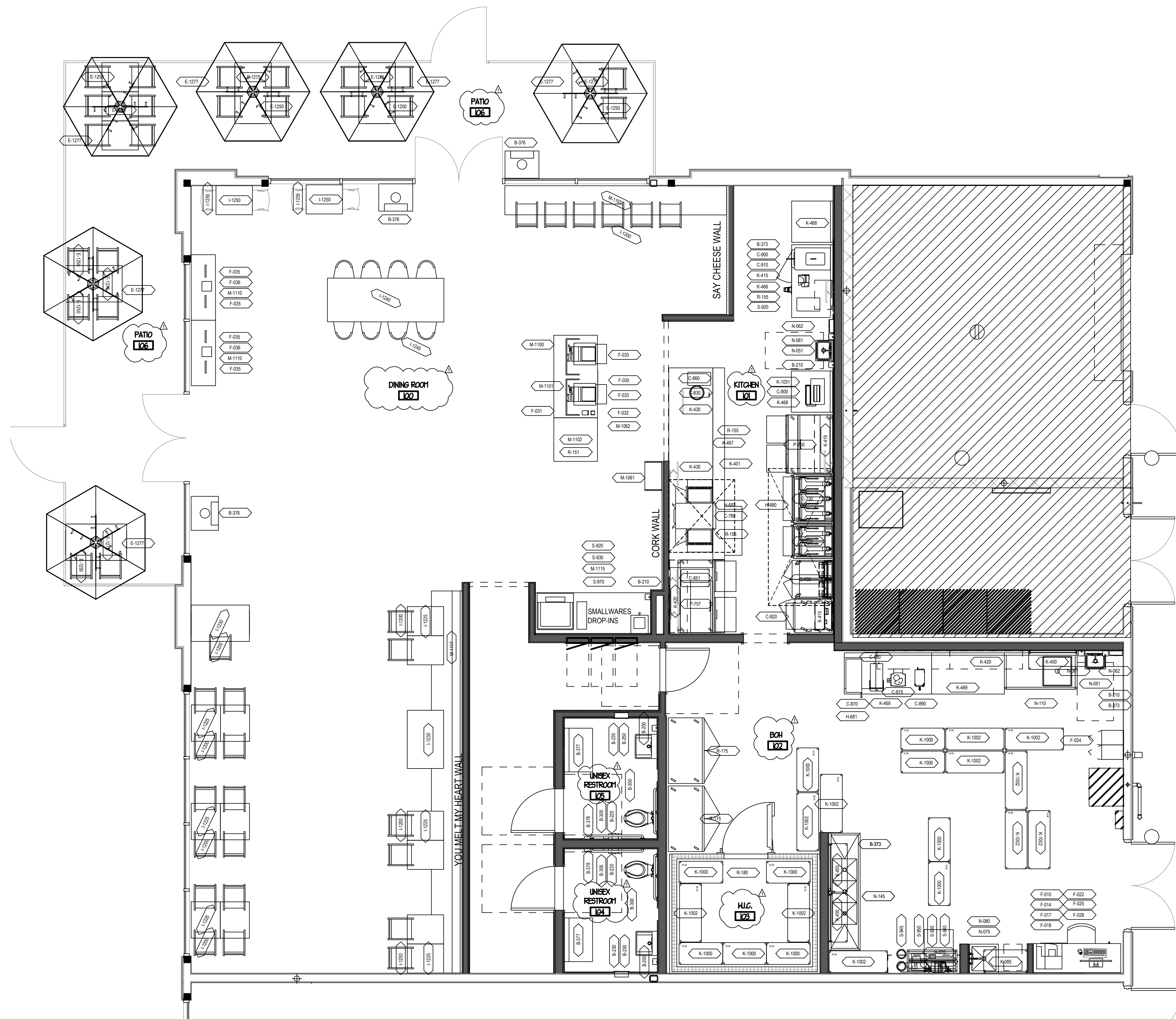
ORIGINAL ISSUE DATE: 7.17.2024

SHEET TITLE:
GREEN BUILDING
STANDARDS
CHECKLIST

SHEET NUMBER:
G0.7 Δ







the MELT
THE DAVIS COLLECTION
865 RUSSELL BLVD
SUITE #110
DAVIS, CA 95616

[illegible]

SHEET TITLE:

EQUIPMENT PLAN

SHEET NUMBER:

A2.0

P

O

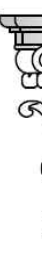
N

M

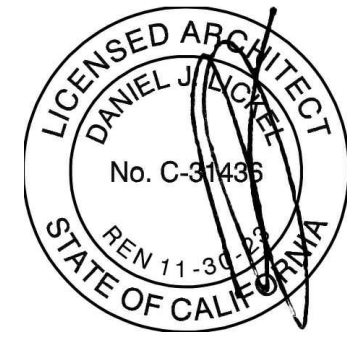
1

K

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

 SIGNATURE DATE: 12.4.2024		
LICKEL ARCHITECTURE		
		
14 West 3rd Street Suite 100 Kansas City, MO 64105 (P) 816.421.2707 (F) 816.421.8291		
the MELT THE DAVIS COLLECTION 865 RUSSELL BLVD SUITE #110 DAVIS, CA 95616		
 © 2015 UNAUTHORIZED USE, REPRODUCTION, PUBLICATION, DISTRIBUTION OR SALE IN WHOLE OR IN PART IS STRICTLY PROHIBITED.		
REV	DATE	DESCRIPTION
ORIGINAL ISSUE DATE: 7.17.2024		
SHEET TITLE:		
EQUIPMENT SCHEDULE		

EQUIPMENT SCHEDULE																					
ITEM #	QTY.	ITEM DESCRIPTION	SIZE	MANUFACTURER	MODEL	ELECTRICAL							PLUMBING				GAS		REMARKS		
						ELEC	PHASE	IT.PLUG	AMP	VOLTS	WATTS	WATTS	HP	PLUMB	DRAIN	HW	CW	GAS		BTU/HR	
N - SINKS, DISHWASHERS																					
N-051	2	SS WALL MOUNTED SINK W/FAUCET	17"W x 15 1/4"D	AERO	HSF2S	-		-	-	-	-	-	-	X	X	-	X	X	-		
N-061	2	SOAP DISPENSER		BOBRICK		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
N-062	2	PAPER DISPENSER		BOBRICK		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
N-070	1	WATER FILTER SYSTEM		SHURFLO	#WB6-M3-22-00 3	-		-	-	-	-	-	-	-	-	-	-	-	-		
N-075	1	MOP SINK	24"W x 24"L x 10"D.O.D.		#3MP-2121-3/2- PANEL B2465	-	-	-	-	-	-	-	-	X	X	-	-	-	-		
N-080	1	MOP SINK FAUCET		T&S BRASS				-	-	-	-	-	-	-	-	-	-	-	-		
N-110	1	PREP SINK WORKSTATION - RH SINK BOWL	30"W x 60"L x 35"H	GSW	WT-PS3060R	-		-	-	-	-	-	-	X	X	-	-	-	-		
N-120	1	1-COMP PREP SINK FAUCET		T&S	B-0831-WA	-	-	-	-	-	-	-	-	X	-	X	X	-	-		
N-145	1	3 COMPARTMENT SINK	26"W x 96-3/8"D x 45"H	GSW	SE16203D24	-		-	-	-	-	-	-	X	X	-	-	-	-	FAUCET ADD-ON/NOZZLE/TWIST WASTE VALVE(SPECIFY QTY.3) / LEVER WASTE DRAIN (SPECIFY QTY. 3)	
O-OTHERS																					
O-100	1	SS SPLASH GUARD	CUSTOM			-		-	-	-	-	-	-	-	-	-	-	-	-	CUSTOM BY OTHERS SELECTED BY THE MELT	
P - FOOD PREP																					
P-750	1	48" PREP TABLE WITH DRAWERS	48"W x 38 3/8"D x 49"H	BEVERAGE AIR	SPED49HC-10-2	X		-	2.2 FLA	-	-	-	-	1/6	-	-	-	-	-	18 DEEP PANS. NO SURFACE WORK TOP	
P-757	1	60" PREP TABLE WITH DRAWERS	60" W x 38-3/8" D x 49"H	BEVERAGE-AIR	SPED60HC-18M -4	-		-	-	-	-	-	-	-	-	-	-	-	-		
R - REFRIGERATION																					
R-151	1	REFRIGERATED DISPLAY CASE	48"L x 30"D x 81.5" H	OMCAN	RS-CN-0700	X	1	5-20P	11.8	-		1340	-	-	-	-	-	-	-		
R-155	2	UNDERCOUNTER REFRIGERATOR - L-R HINGE	27-9/16"W x 30-1/16" D x 31-7/8"H	TRUE	TUC-27-LP-HC	X	1	NEMA 5-15P	2	115			1/6	-	-	-	-	-	-	INCL (1) @POS	
R-156	1	CHEF BASE REFRIGERATOR	60"W X 34-3/4" D X 24-3/8" H	BEVERAGE AIR	WTRCS60HC	X	1	NEMA 5-15P	1.7	115			1/6	-	-	-	-	-	-		
R-161	1	WORKTOP FREEZER	27-9/16"W x 30-1/16"D x 31-7/8"H	TRUE	TWT-27F-HC	X	1	NEMA 5-15P	2	115			-	-	-	-	-	-	-		
R-175	2	FREEZER - 2DOORS, L-R HINGE	54-1/8"W X 29-1/2" D X 83-5/16" H	TRUE	T-49F-HC	X	1	NEMA 5-15P	9.6	115			1	-	-	-	-	-	-		
R-180	1	WALK-IN COOLER	8' x 10'	AMERIKOOLER	CUSTOM	X	1	-	15	208-230			1/2	-	-	-	-	-	-	HARDWARE FOR WALK-IN COOLER DOORS TO BE 34IN. MINIMUM TO 44IN. MAXIMUM AFF	
S -SERVING, PICK UP																					
S-920	2	CUP DISPENSER	<varies>	SAN JAMAR	SNJMR360125	-	<varies>	-	-	-			-	-	-	-	-	-	-		
S-925	1	500 LB ICE MACHINE	30"W x 24 6"D x 22 2"H	OSION	OCM-500	X	1	-	4.33	115		520W	-	-	-	-	-	-	-		
S-930	1	ICE BEVERAGE DISPENSER	30"W x 30.5"D x 33.375"H	LANCER	IBD 4500-30	X		-	3.5	115			-	-	-	-	-	-	-		
S-935	1	FLAT BIB RACK	18"W x 41"D x 54"H	MCCANN'S MUTIFLEX7	IC44243	-		-	-	-			-	-	-	-	-	-	-		
S-940	1	SYRUP PUMP	3.21"W x 4.58"D x 5.27"H	FLOJET	G6500	-		-	-	-			-	-	-	-	-	-	-		
S-945	2	CO2 TANK-20 OR 50 LB	8" DIA x 53 2"H			-		-	-	-			-	-	-	-	-	-	-		
S-950	1	CARBONATOR	14"W x 12"D x 10.5"H	MCCANN'S	BIG MAC'E SERIES"	X	1	-	2	115			-	-	-	-	-	-	-		
S-955	1	129BLUE LINE 8 LINE BUNDLE TUBING	4" RADIUS	BEVFLEX		-		-	-	-			-	-	-	-	-	-	-		
S-970	1	KETCHUP DISPENSER				-		-	-	-			-	-	-	-	-	-	-		



SIGNATURE DATE: 12.4.2024



14 West 3rd Street Suite 100
Kansas City, MO 64105
(P) 816.421.0707
(F) 816.421.9291

the MELT
THE DAVIS COLLECTION
865 RUSSELL BLVD
SUITE # 110
DAVIS, CA 95616

theMELT

ANY UNAUTHORIZED USE, REPRODUCTION, PUBLICATION, DISTRIBUTION, SALE OR RENTAL OF THIS PRODUCT IS STRICTLY PROHIBITED.

[illegible]

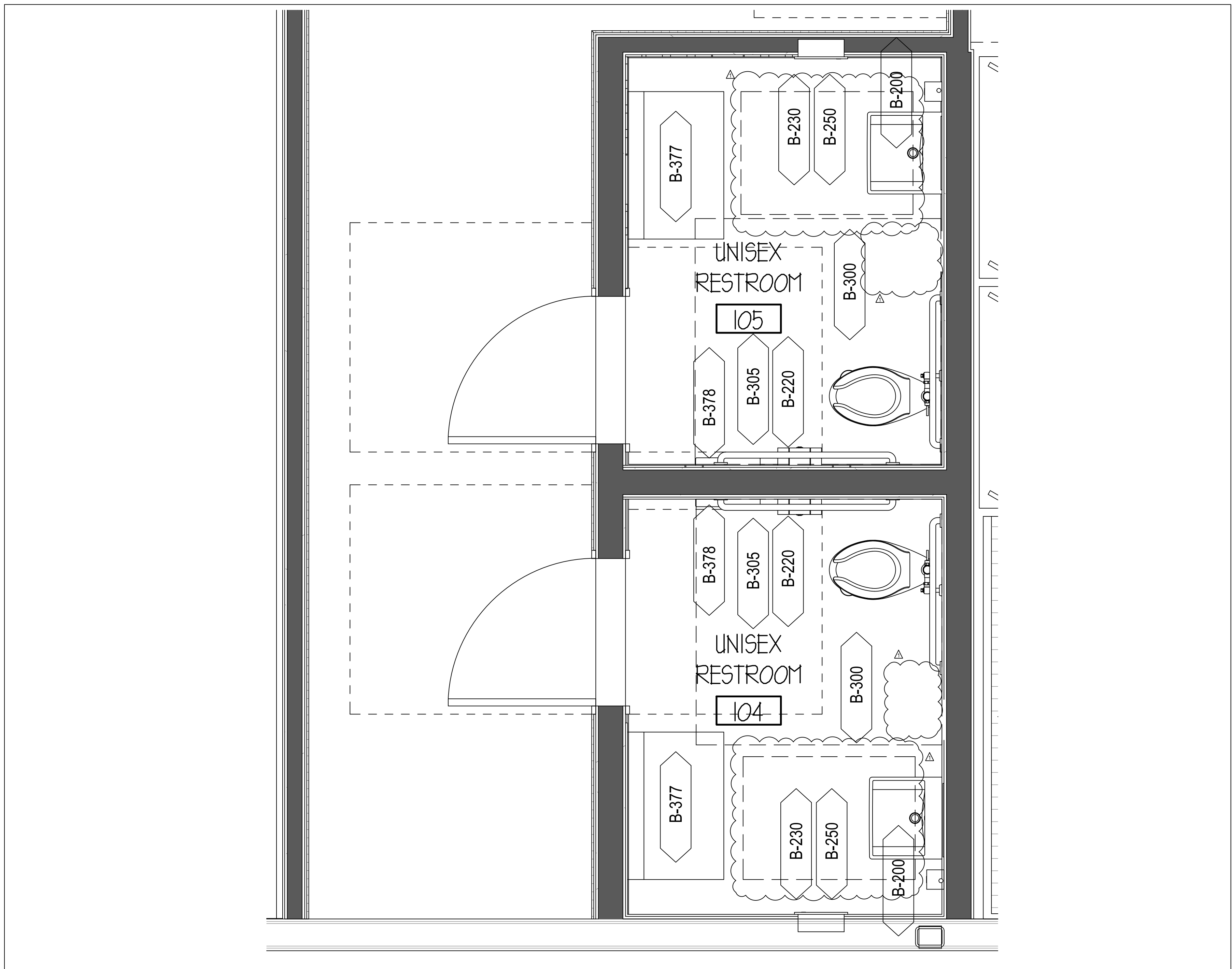
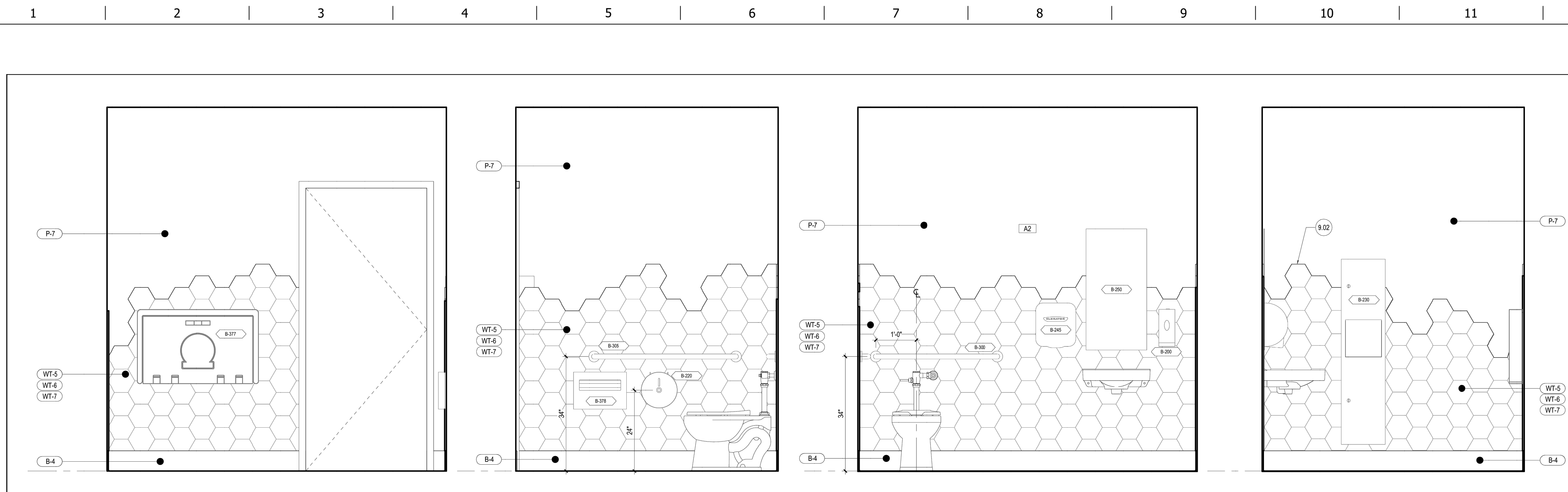
ORIGINAL ISSUE DATE: 7.17.202

SHEET TITLE:

EQUIPMENT SCHEDULE

SHEET NUMBER:

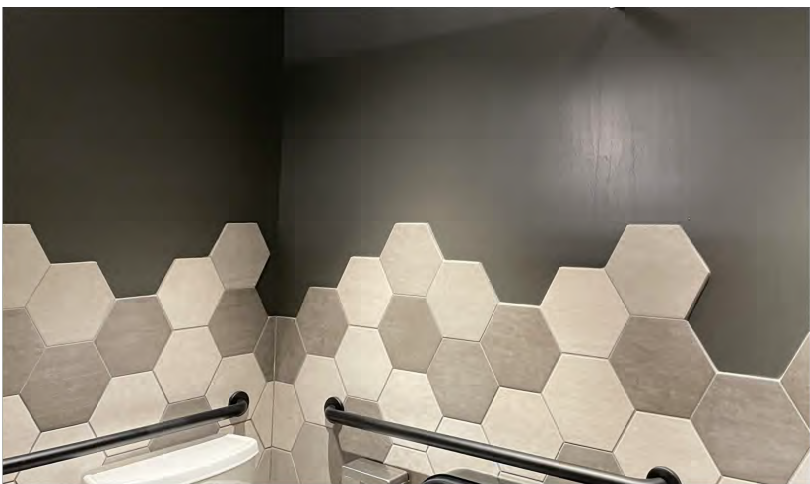
A2.1



GENERAL NOTES

- DIMENSIONS ARE BASED ON THE FOLLOWING CRITERIA:
- A DIMENSIONS ARE TO CENTERLINE OF STRUCTURAL GRID LINE UNLESS OTHERWISE NOTED.
- B DIMENSIONS TO LOCATION OF CENTERLINE OF OVERLAP CAUSED BY MODULS, MILLION LAYERS, SCHEDULE OR DETAIL ARE NOT OTHERWISE DIMENSIONED.
- C DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE OR FACE OF CONCRETE MASONRY UNIT UNLESS OTHERWISE NOTED.
- D DO NOT SCALE DRAWINGS; IF DIMENSIONS ARE NOT SHOWN AND CAN NOT BE DETERMINED BY LAYOUT OR DETAIL, OR IF DISCREPANCIES ARE NOTED, NOTIFY THE ARCHITECT FOR RESOLUTION.
- E DRAWING CONSTRUCTION SHALL BE USED TO DETERMINE DIMENSIONS. DIMENSIONS SHALL INDICATE CLEARANCES AT COMPLETED CONDITIONS, TAKING FINISH MATERIALS INTO ACCOUNT.
- F DIMENSIONS ARE BASED UPON SPECIFIED MATERIALS AND EQUIPMENT. SUBSTITUTIONS MAY EFFECT DIMENSIONS. SUBSTITUTIONS SHALL BE NOTED ON THE DRAWING.
- G DIMENSIONS AND CLEARANCES
- H DIMENSIONS OR TO FACE OF CONDITIONS ARE TO BE FIELD VERIFIED BY CONTRACTOR. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- I ELEVATIONS REFER TO THE TOP OF THE SLAB ON GRADE (FLAT FLOOR ELEVATIONS NOTED ARE TO TOP OF SLAB). BUILDING FINISH ELEVATIONS ARE TO TOP OF FINISH.
- J A SITE SURVEY SHOWING SITE BOUNDARIES, BOUNDARY LINES, DECLINATIONS, SITE CONDITIONS AND GRADIENTS AT THE TIME OF SURVEY WAS FURNISHED TO THE DESIGN TEAM BY THE OWNER. CONTRACTOR SHALL VERIFY THESE CONDITIONS.
- K PERMIT DRAWINGS FOR FIRE SPRINKLER WORK SHALL BE A DEFERRED SUBMITTAL MADE BY THE CONTRACTOR. FIRE SPRINKLER SYSTEM SHALL CONFORM TO CISC A INPA CODE. FIRE SPRINKLER DESIGN SHALL BE BY THE CONTRACTOR. CONTRACTOR SHALL VERIFY THE DESIGN AND INSTALLATION. CONTRACTOR SHALL SUBMIT THE REQUIRED INFORMATION TO THE ARCHITECT FOR REVIEW.
- L CONTRACTOR SHALL VERIFY AND SUBMIT THE REQUIRED INFORMATION TO THE ARCHITECT FOR REVIEW AND FOR SEISMIC-BASED FOR NON-STRUCTURAL ELEMENTS.
- M IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIALS SHALL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.
- N CONTRACTOR SHALL COMPLY WITH WORK-HOUR AND NOISE RESTRICTIONS REQUIRED BY THE AUTHORITY

NOTES



NOTE: WT-5, WT-6 & WT-7 TO BE INSTALLED IN RATIO 30:30:40 IN RANDOM ARRANGEMENT

KEYNOTES

9.02 PAINTABLE GROUT OR SEALANT ON EXPOSED TOP EDGES OF TILE, TYP. VERIFY IN FIELD WITH OWNER PREFERENCE.

RESTROOM ACCESORIES

ITEM #	ITEM DESCRIPTION	QTY	SIZE	MANUFACTURER	MODEL
B-200	SOAP DISPENSER	2	4.33"W x 4.10"D x 11.11"H	KAY CHEMICAL	3741
B-200	TOWEL PAPER DISPENSER	1	10.21/2"Z DIAMETER	BOBRICK	B0890
B-200	PAPER TOWEL DISPENSER W/ WASTE RECYCABLE	2	5.0" X 13"	ASI	6467
B-245	HAND DRYER	2	4.84"W x 4.10"D	EXCEL ACCELERATOR	XL-GR
B-250	MIRROR	2	16"W X30"W		
B-300	GRAB BAR 1-1/2" DIA X30" S.F.FIN.	2	36"	ASI	3800 TYPE-01
B-305	GRAB BAR 1-1/2" DIA X42" S.F.FIN.	2	42"	ASI	3800 TYPE-01
B-337	BABY CHANGING STATION	1		FOUNDATIONS	200-EH
B-375	TOILET SEAT COVER DISPENSER	1		ASI	0473M
F-025	FIRST AID KIT	1	15.34" X 11"		



SIGNATURE DATE: 12.4.2024



14 West 3rd Street Suite 100
Kansas City, MO 64105
(P) 816.421.0707
(F) 816.421.9291

the MELT
THE DAVIS COLLECTION
865 RUSSELL BLVD
SUITE #110
DAVIS, CA 95616



©
ANY UNAUTHORIZED USE, REPRODUCTION, PUBLICATION, DISTRIBUTION OR
SALE IN WHOLE OR IN PART, IS STRICTLY FORBIDDEN.

[illegible]

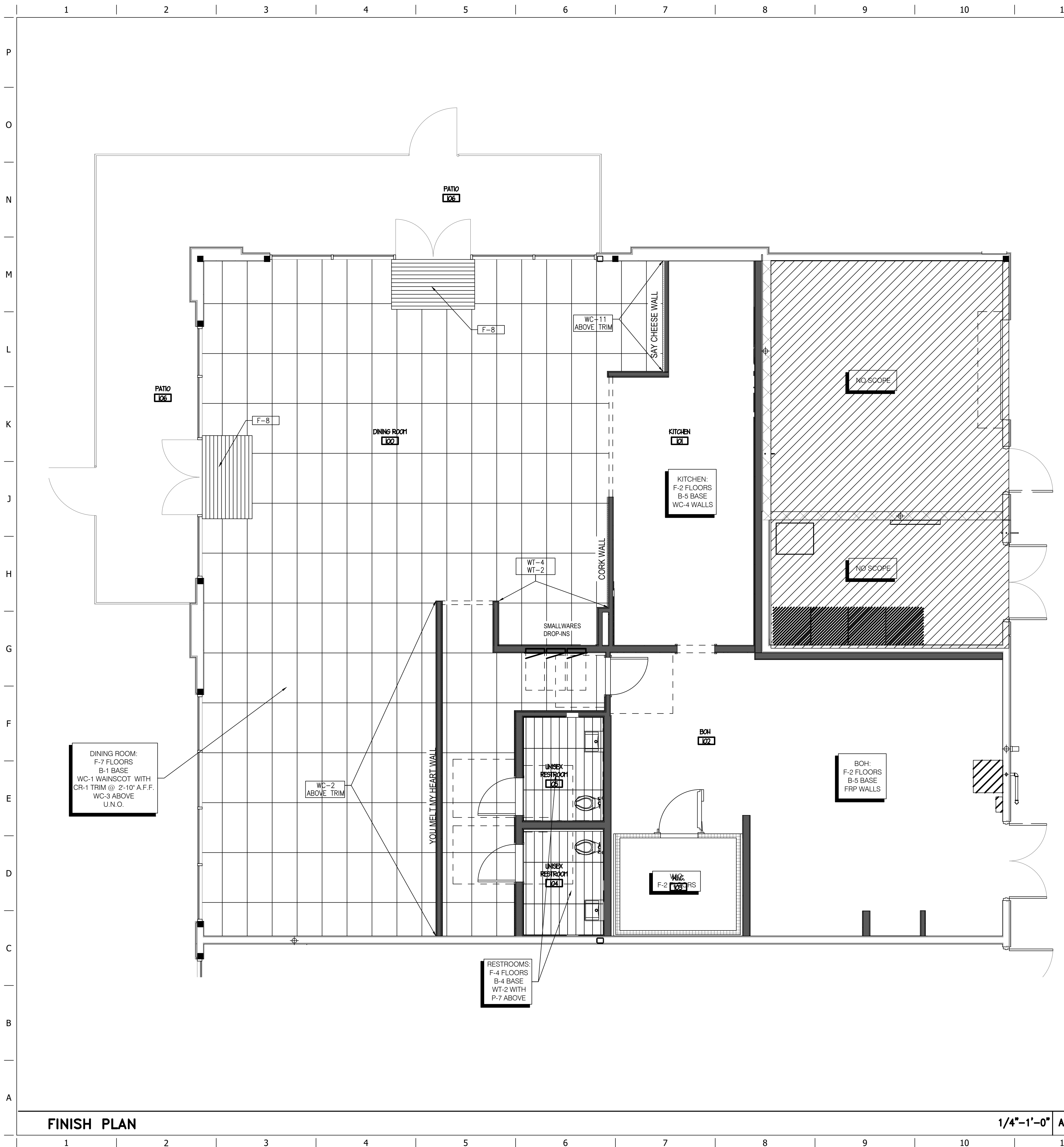
ORIGINAL ISSUE DATE: 7.17.2024

SHEET TITLE:

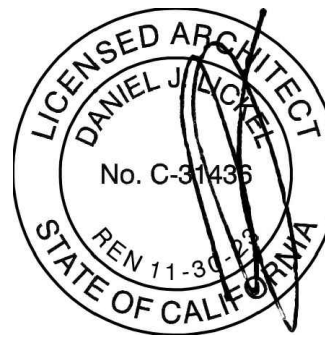
RESTROOM PLAN AND DETAILS

SHEET NUMBER:

A4.0



FINISH SCHEDULE				
	TAG	MANUF.	STYLE	FINISH
CEILING	C-1			RECLAIMED OR NEW DISTRESSED OAK
	C-2	ARMSTRONG	ARMSTRONG KITCHEN ZONE #672 WHITE, TILE 24"x24"x5/8", EDGE: SQUARE LAY-IN 15/16" PRELUDE GRID SYSTEM	
	C-3	GYP. BD.	PAINTED	RE: RCP
FLOORING	F-1			
	F-2	PROTECT-ALL	PROTECT-ALL FLOORING 1/4"	DARK GRAY MATTE FINISH
	F-3			
	F-4	LANDMARK	EMOTION SWEET GREY 8"x40", 0.35" THICK	SWEET GREY
	F-5	CROSSVILLE	CROSS COLORS MINGLES - SKU R001/1080BUPS	GRAY MINGLE UNPOLISHED WITH CROSS SHEEN
	F-6	MANNINGTON	AMTICO SIGNATURE STONE 12X24	STRIA VOLCANIC
	F-7	MANNINGTON	AMTICO SIGNATURE STONE 9X9	STRIA VOCANIC
	F-8	MILLIKEN	OBEX BAR CUT RECESSED	DARK GREY
PAINT	P-1	SHERWIN WILLIAMS	SW7015	REPOSE GRAY - SATIN
	P-2	SHERWIN WILLIAMS	SW7076	CYBERSPACE - SEMI GLOSS ENAMEL
	P-3	SHERWIN WILLIAMS	SW6258	TRICORN BLACK - POWDER COAT MATTE
	P-4	SHERWIN WILLIAMS	SW6258	TRICORN BLACK - SEMI GLOSS
	P-7	SHERWIN WILLIAMS	SW7048	URBANE BRONZE - SEMI GLOSS
	P-10	SHERWIN WILLIAMS	SW7015	REPOSE GRAY - SEMI GLOSS
	P-11	SHERWIN WILLIAMS	SW7008	ALABASTER - SEMI GLOSS
SURFACE FINISHES	BM		MELAMINE	BLACK
	CR-1	LOCALLY PROCURED	HERITAGE OAK WOOD	RECLAIMED OR DISTRESSED OAK
	S-1	LG HI-MACS	SOLID SURFACE 1/2"	EBONY CONCRETE
	S-2	CORIAN	SOLID SURFACE 1/2"	NEUTRAL CONCRETE
WALL BASE	B-1	LOCALLY PROCURED		BLACKENED STEEL
	B-2	LOCALLY PROCURED		BRUSHED STAINLESS STEEL
	B-3	CROSSVILLE	CROSS COLORS MINGLES - 6X8 TRIM	GRAY MINGLE UNPOLISHED WITH CROSS SHEEN
	B-4	LANDMARK	EMOTION SWEET GREY COVE BASE	SWEET GREY
	B-5	PROTECT-ALL	PROTECT-ALL COVE BASE SYSTEM 6"	DARK GRAY
WALL FINISHES	FRP	MARLITE	P-199 BRIGHT WHITE	PEBBLED
	WC-1	WOOD PANEL USA	WOOD TECH SIDING EXTERIOR WALL PANEL	BLACK
	WC-2	CREATIVE PALETTE	NUSTONE	CUSTOM FAUX BRICK PANELS; 16" H WITH SEALANT COLOR
	WC-3	SEABROOK	TS81228 - CEMENT FAUX WALLPAPER	CEMENT
	WC-4	LOCALLY PROCURED	STAINLESS STEEL	BRUSHED
	WC-5	CREATIVE PALETTE	NUSTONE	CUSTOM FAUX CONCRETE PANEL; 8"H X 60"L
	WC-6	LOCALLY PROCURED	LOCAL WOOD PLANKS - RECLAIMED REDWOOD OR SIMILAR	
	WC-9	LOCALLY PROCURED	CORRUGATED METAL	CORRUGATED METAL
	WC-11	DIGICO	CUSTOM	VINYL WALL COVERING WITH WHITE ON CHALKBOARD GRAY PRINT
	WC-12	DIGICO	CUSTOM	VINYL WALL COVERING WITH WHITE ON CHALKBOARD GRAY PRINT AND HEART HANDS
	WT-2	LUNADA BAYTILES	CONTOURZ 4" HEX TILE; GROUT 1/8" MAPEI - BLACK 10	COLOR IRONY; SEALED
	WT-4	CEASAR CERAMICS	LINK- HOOK 12X24; GROUT: 1/8" MAPEI - IRON 107	HOOK
WT-5	ATLAS CONCORDE USA	PORCELAIN HEXAGON TILES; GROUT 1/8" MAPEI - IRON 107	BOHO SMOKE. TILE COLOR VARIATION IN RESTROOM WALLS SHALL BE 30:30:40 (WT-5, WT-6, WT-7) IN RANDOM ARRANGEMENT	
WT-6	ATLAS CONCORDE USA	PORCELAIN HEXAGON TILES; GROUT 1/8" MAPEI - IRON 107	BOHO FOG. TILE COLOR VARIATION IN RESTROOM WALLS SHALL BE 30:30:40 (WT-5, WT-6, WT-7) IN RANDOM ARRANGEMENT	
WT-7	ATLAS CONCORDE USA	PORCELAIN HEXAGON TILES; GROUT 1/8" MAPEI - IRON 107	BOHO BONE. TILE COLOR VARIATION IN RESTROOM WALLS SHALL BE 30:30:40 (WT-5, WT-6, WT-7) IN RANDOM ARRANGEMENT	



SIGNATURE DATE: 12.4.2024



14 West 3rd Street Suite 10
Kansas City, MO 64105
(P) 816.421.0707
(F) 816.421.9291

the MELT
THE DAVIS COLLECTION
865 RUSSELL BLVD
SUITE #110
DAVIS, CA 95616

[illegible]

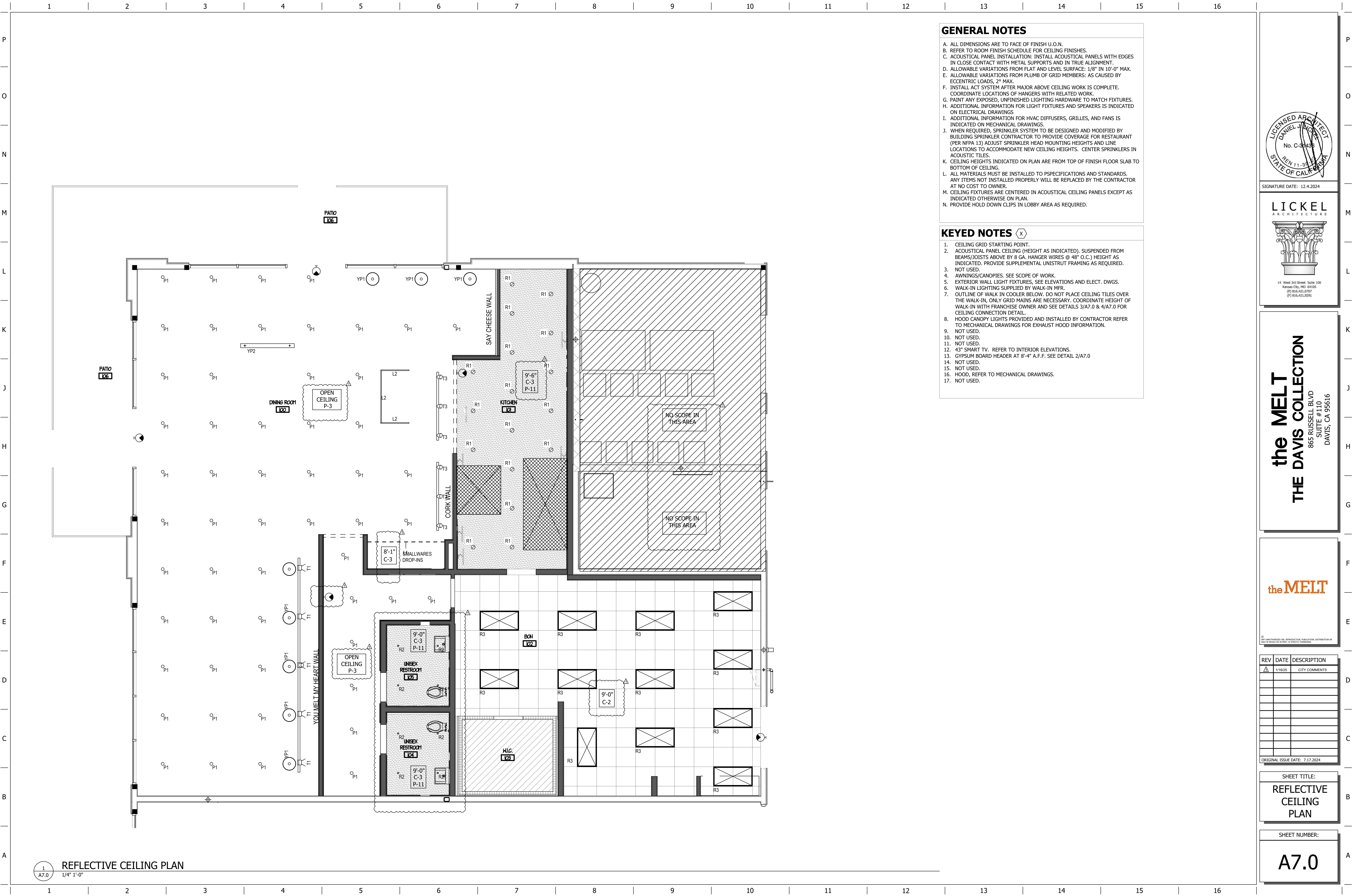
SHEET TITLE:

FINISH PLAN AND SCHEDULE

SHEET NUMBER:

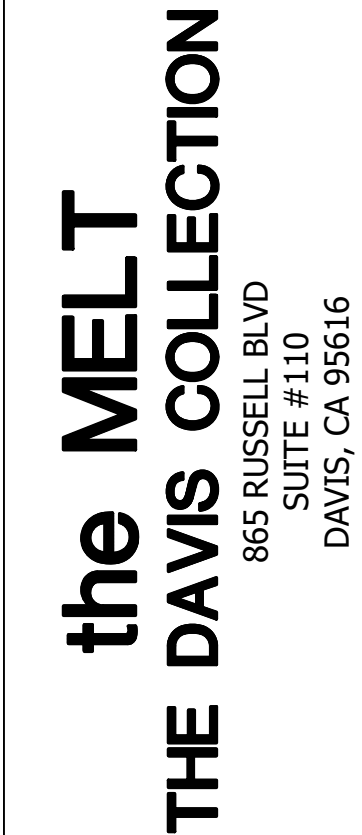
A6.0

[illegible]



- A. ALL DIMENSIONS ARE TO FACE OF FINISH U.O.N.
- B. REFER TO ROOM FINISH SCHEDULE FOR CEILING FINISHES.
- C. ACOUSTICAL PANEL INSTALLATION: INSTALL ACOUSTICAL PANELS WITH EDGES TO CLOSE CONTACT WITH METAL SUPPORTS AND IN TRUE ALIGNMENT.
- D. ALLOWABLE VARIATIONS FROM FLAT AND LEVEL SURFACE: 1/8" IN 10'-0" MAX.
- E. ALLOWABLE VARIATIONS FROM PLUMB OF GRID MEMBERS: AS CAUSED BY ECCENTRIC LOADS, 2" MAX.
- F. INSTALL ACT SYSTEM AFTER MAJOR ABOVE CEILING WORK IS COMPLETE.
- G. PROVIDE LOCATION OF HANGERS WITH RELATED WORK.
- H. PAINT ANY EXPOSED, UNFINISHED LIGHTING HARDWARE TO MATCH FIXTURES.
- I. ADDITIONAL INFORMATION FOR LIGHT FIXTURES AND SPEAKERS IS INDICATED ON ELECTRICAL DRAWINGS
- J. ADDITIONAL INFORMATION FOR HVAC DIFFUSERS, GRILLES, AND FANS IS INDICATED ON MECHANICAL DRAWINGS
- K. WHEN REQUIRED, SPRINKLER SYSTEM TO BE DESIGNED AND MODIFIED BY BUILDING SPRINKLER CONTRACTOR TO PROVIDE COVERAGE FOR RESTAURANT (PER NFPA 13) ADJUST SPRINKLER HEAD MOUNTING HEIGHTS AND LINE LOCATIONS TO ACCOMMODATE NEW CEILING HEIGHTS. CENTER SPRINKLERS IN ACOUSTICAL PANELS.
- L. CEILING HEIGHTS INDICATED ON PLAN ARE FROM TOP OF FINISH FLOOR SLAB TO BOTTOM OF CEILING.
- M. ALL MATERIALS MUST BE INSTALLED TO SPECIFICATIONS AND STANDARDS. ANY ITEMS NOT INSTALLED PROPERLY WILL BE REPLACED BY THE CONTRACTOR AT HIS OWN LOSS TO OWNER.
- N. CEILING FIXTURES ARE CENTERED IN ACOUSTICAL CEILING PANELS EXCEPT AS INDICATED OTHERWISE ON PLAN.
- O. PROVIDE HOLD DOWN CLIPS IN LOBBY AREA AS REQUIRED.

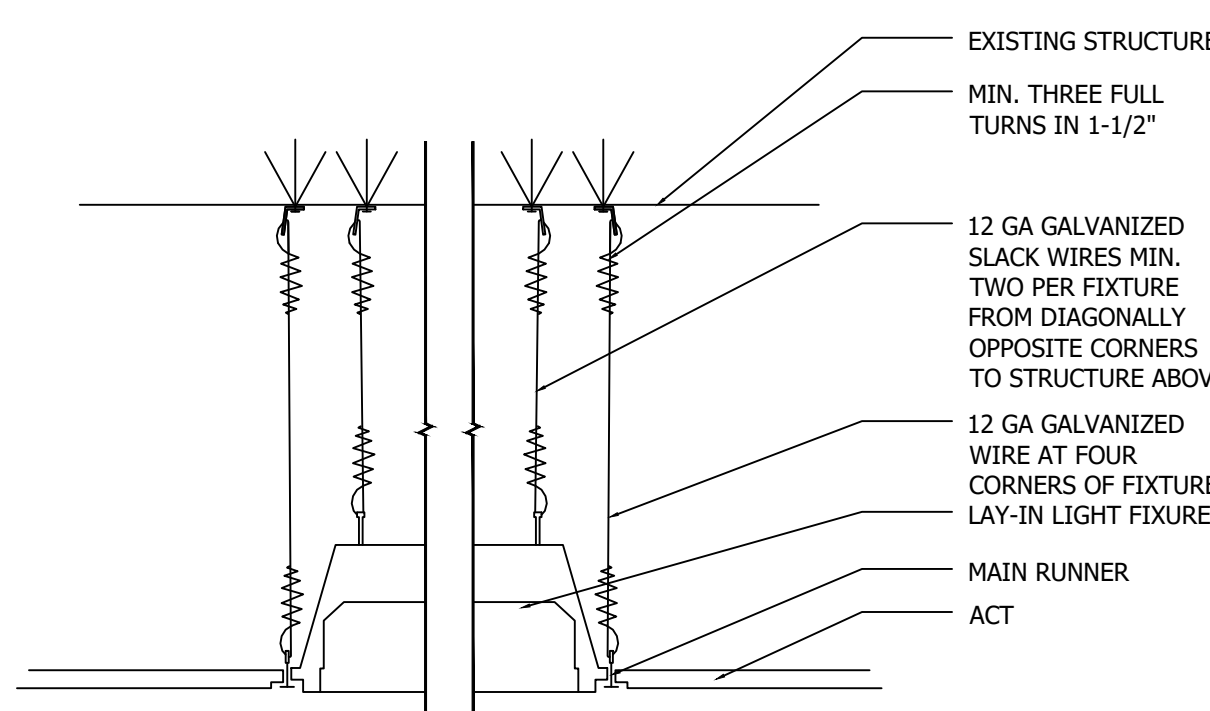
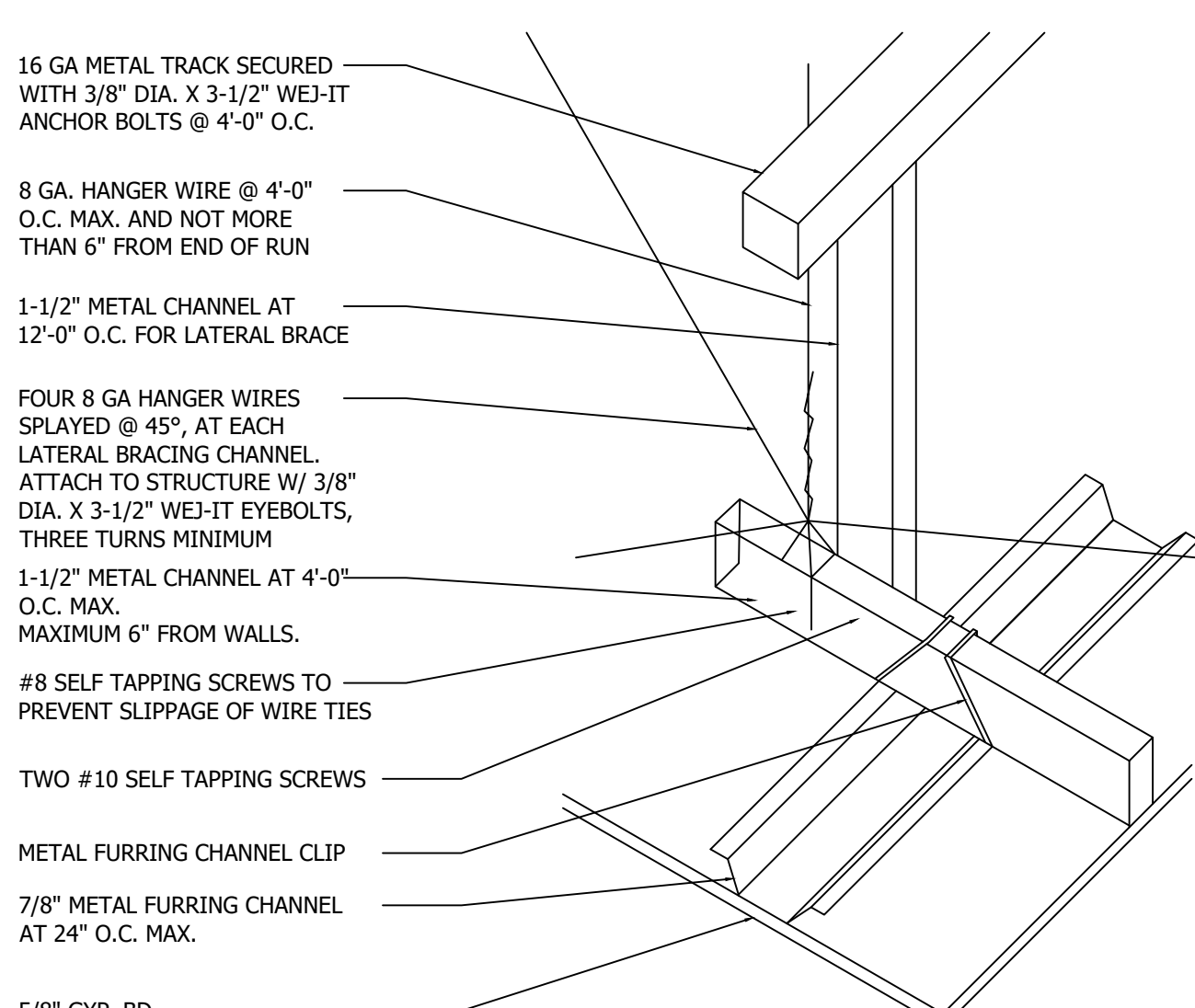
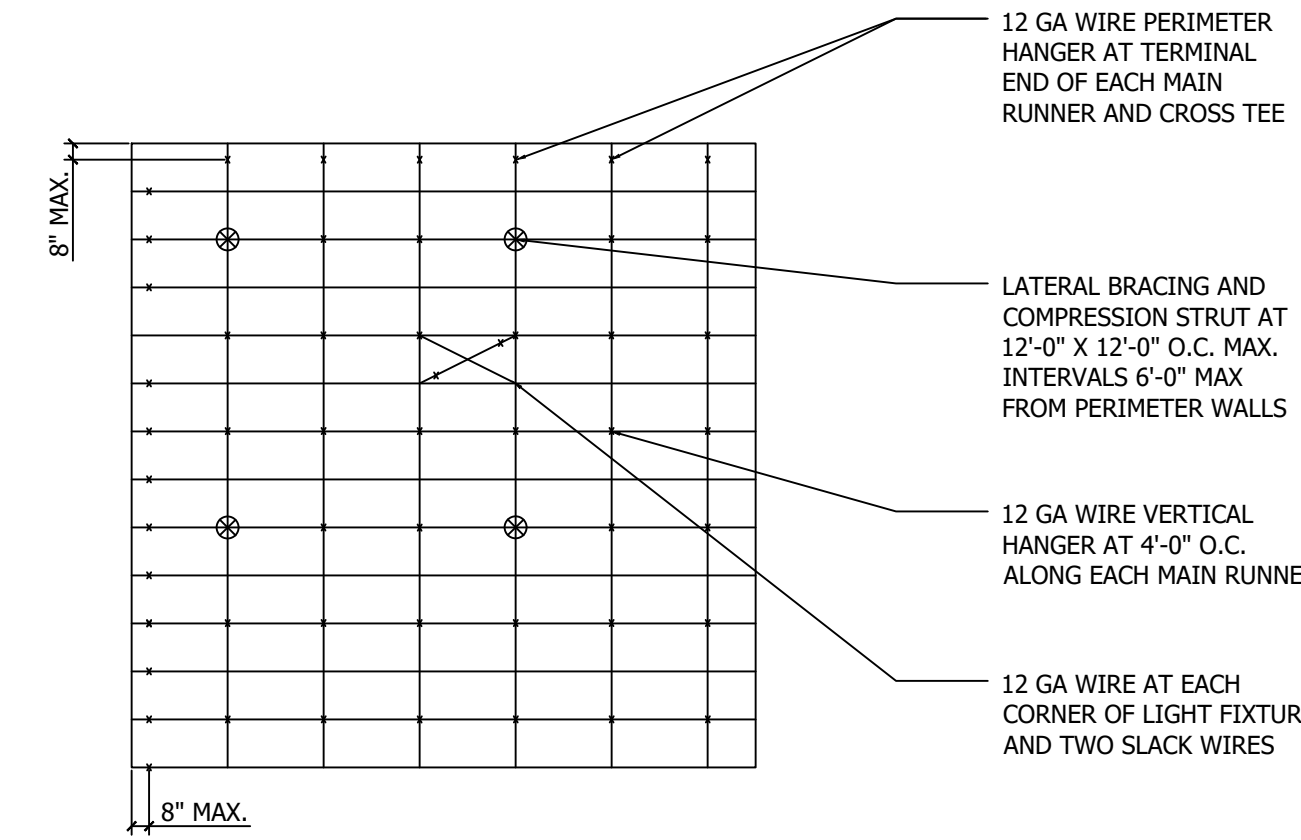
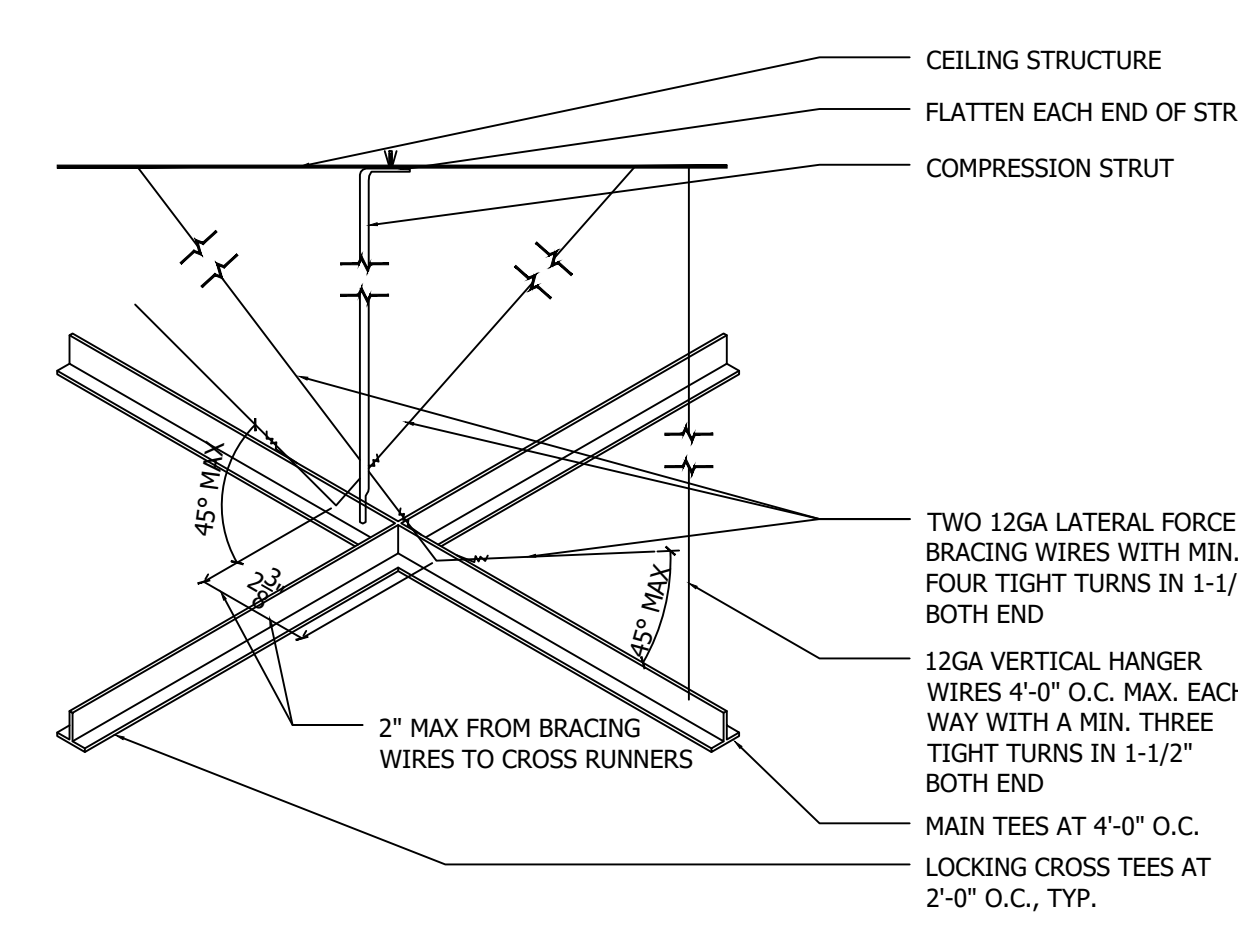
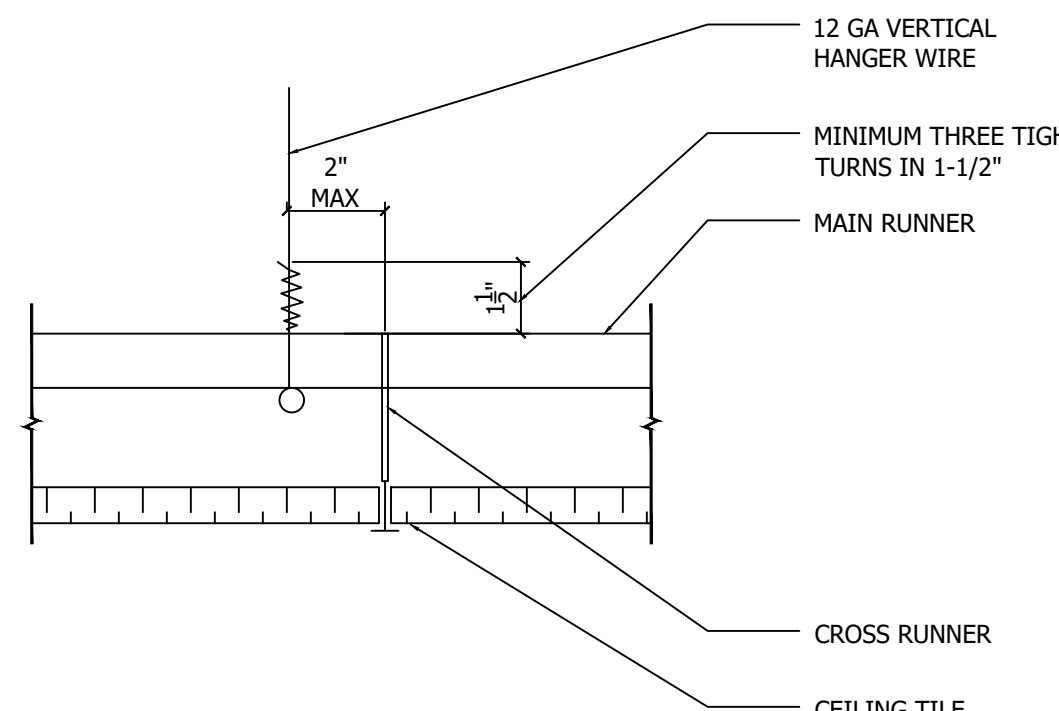
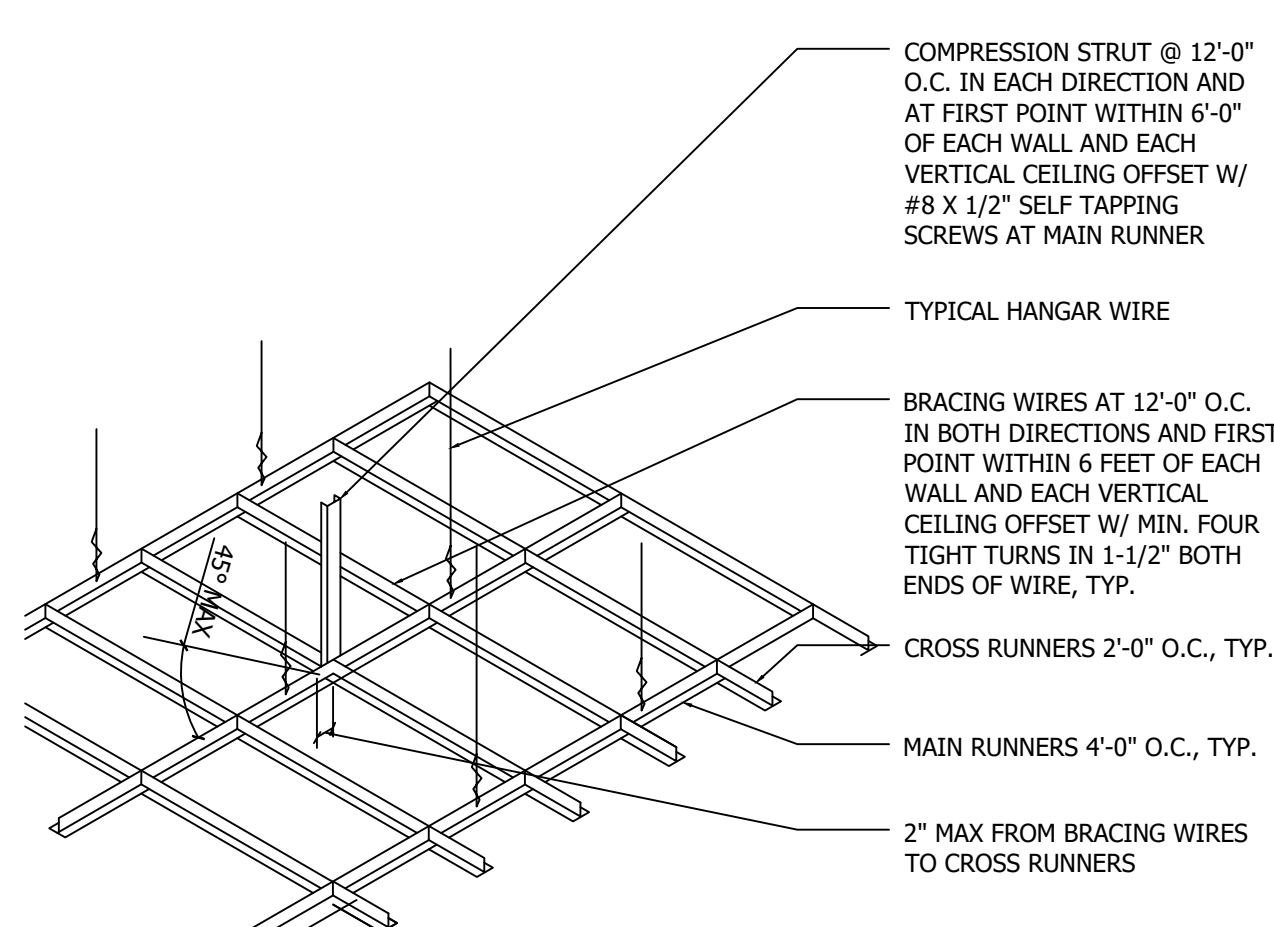
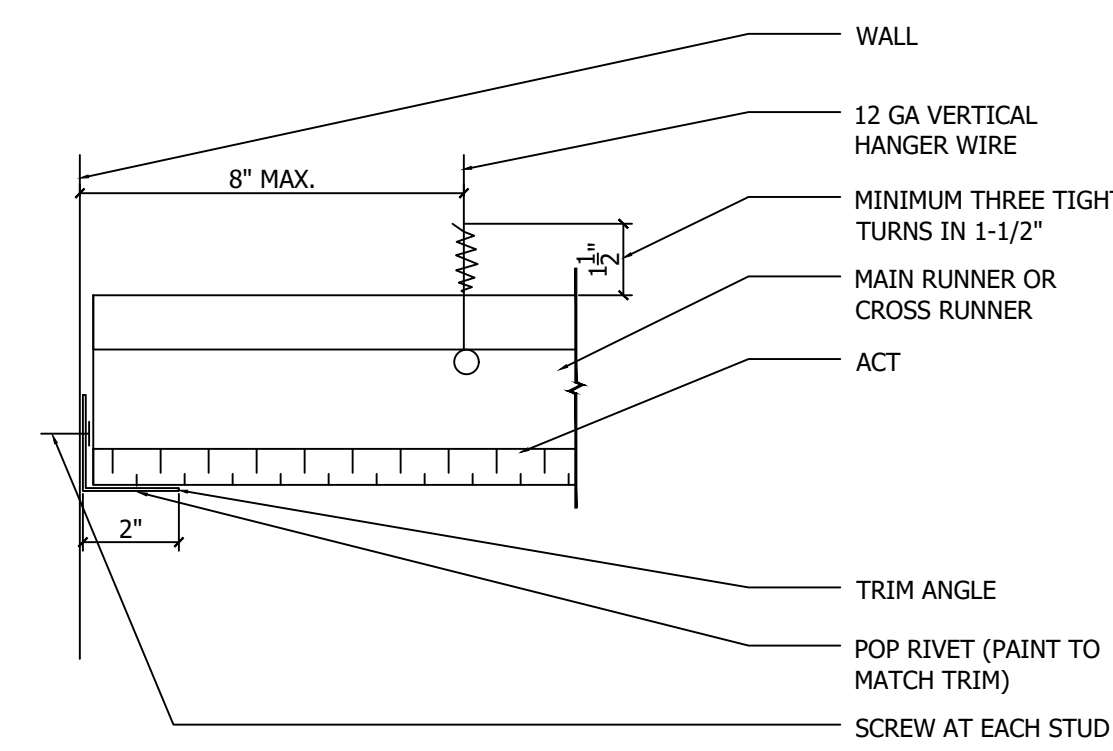
1. CEILING GRID STARTING POINT.
2. ACOUSTICAL PANEL CEILING (HEIGHT AS INDICATED). SUSPENDED FROM BEAMS/JOISTS ABOVE BY 8 GA. HANGER WIRES (AT 48" O.C.) HEIGHT AS INDICATED. PROVIDE SUPPLEMENTAL UNISTRUT FRAMING AS REQUIRED.
3. NOT USED.
4. AWNINGS/CANOPIES. SEE SCOPE OF WORK.
5. EXTERIOR WALL LIGHT FIXTURES, SEE ELEVATIONS AND ELEC. DWGS.
6. WALK-IN LIGHTING SUPPLIED BY WALK-IN MFR.
7. OUTLINE OF WALK IN COOLER BELOW. DO NOT PLACE CEILING TILES OVER THE WALK-IN. ONLY GRID MAINS ARE NECESSARY. COORDINATE HEIGHT OF WALK-IN WITH FRANCHISE OWNER AND SEE DETAILS 3/A7.0 & 4/A7.0 FOR CONNECTION DETAIL.
8. HOOD CANOPY LIGHTS PROVIDED AND INSTALLED BY CONTRACTOR REFER TO MECHANICAL DRAWINGS FOR EXHAUST HOOD INFORMATION.
9. NOT USED.
10. NOT USED.
11. NOT USED.
12. 43" SMART TV. REFER TO INTERIOR ELEVATIONS.
13. GYPSUM BOARD HEADER AT 8'-4" F.F. SEE DETAIL 2/A7.0
14. NOT USED.
15. NOT USED.
16. HOOD, REFER TO MECHANICAL DRAWINGS.
17. NOT USED.



SHEET TITLE:
REFLECTIVE CEILING PLAN

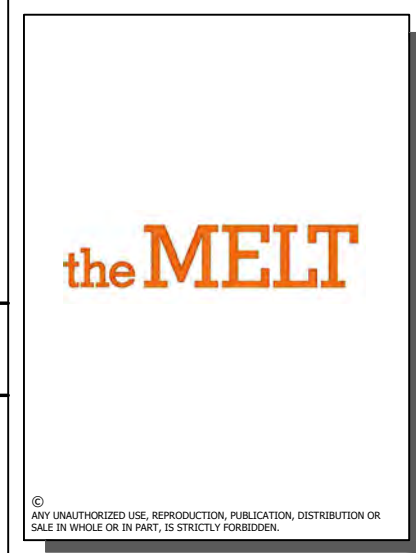
SHEET NUMBER:

A7.0

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
P									 EXISTING STRUCTURE MIN. THREE FULL TURNS IN 1-1/2" 12 GA GALVANIZED SLACK WIRES MIN. TWO PER FIXTURE FROM DIAGONALLY OPPOSITE CORNERS TO STRUCTURE ABOVE 12 GA GALVANIZED WIRE AT FOUR CORNERS OF FIXTURE LAY-IN LIGHT FIXTURE MAIN RUNNER ACT				 16 GA METAL TRACK SECURED WITH 3/8" DIA. X 3-1/2" WEJ-IT ANCHOR BOLTS @ 4'-0" O.C. 8 GA. HANGER WIRE @ 4'-0" O.C. MAX. AND NOT MORE THAN 6" FROM END OF RUN 1-1/2" METAL CHANNEL AT 12'-0" O.C. FOR LATERAL BRACE FOUR 8 GA HANGER WIRES SPLAYED @ 45°, AT EACH LATERAL BRACING CHANNEL. ATTACH TO STRUCTURE W/ 3/8" DIA. X 3-1/2" WEJ-IT EYEBOLTS, THREE TURNS MINIMUM 1-1/2" METAL CHANNEL AT 4'-0" O.C. MAX. MAXIMUM 6" FROM WALLS. #8 SELF TAPPING SCREWS TO PREVENT SLIPPAGE OF WIRE TIES TWO #10 SELF TAPPING SCREWS METAL FURRING CHANNEL CLIP 7/8" METAL FURRING CHANNEL AT 24" O.C. MAX. 5/8" GYP. BD.							
									SUSPENDED LIGHT FIXTURE				G	GYP. CEILING ISOMETRIC				F		
J									 12 GA WIRE PERIMETER HANGER AT TERMINAL END OF EACH MAIN RUNNER AND CROSS TEE LATERAL BRACING AND COMPRESSION STRUT AT 12'-0" X 12'-0" O.C. MAX. INTERVALS 6'-0" MAX FROM PERIMETER WALLS 12 GA WIRE VERTICAL HANGER AT 4'-0" O.C. ALONG EACH MAIN RUNNER 12 GA WIRE AT EACH CORNER OF LIGHT FIXTURE AND TWO SLACK WIRES 8" MAX. 8" MAX.				 CEILING STRUCTURE FLATTEN EACH END OF STRUT COMPRESSION STRUT 45° MAX. 45° MAX. 45° MAX. TWO 12GA LATERAL FORCE BRACING WIRES WITH MIN. FOUR TIGHT TURNS IN 1-1/2" BOTH END 12GA VERTICAL HANGER WIRES 4'-0" O.C. MAX. EACH WAY WITH A MIN. THREE TIGHT TURNS IN 1-1/2" BOTH END 2" MAX FROM BRACING WIRES TO CROSS RUNNERS MAIN TEES AT 4'-0" O.C. LOCKING CROSS TEES AT 2'-0" O.C., TYP.							
H																				
G																				
F																				
									SUSPENDED CEILING PLAN				E	SUSPENDED GRID ISOMETRIC				D		
E					 12 GA VERTICAL HANGER WIRE MINIMUM THREE TIGHT TURNS IN 1-1/2" MAIN RUNNER 2" MAX 1 1/2" CROSS RUNNER CEILING TILE				 COMPRESSION STRUT @ 12'-0" O.C. IN EACH DIRECTION AND AT FIRST POINT WITHIN 6'-0" OF EACH WALL AND EACH VERTICAL CEILING OFFSET W/ #8 X 1/2" SELF TAPPING SCREWS AT MAIN RUNNER TYPICAL HANGAR WIRE BRACING WIRES AT 12'-0" O.C. IN BOTH DIRECTIONS AND FIRST POINT WITHIN 6 FEET OF EACH WALL AND EACH VERTICAL CEILING OFFSET W/ MIN. FOUR TIGHT TURNS IN 1-1/2" BOTH ENDS OF WIRE, TYP. CROSS RUNNERS 2'-0" O.C., TYP. MAIN RUNNERS 4'-0" O.C., TYP. 2" MAX FROM BRACING WIRES TO CROSS RUNNERS				 WALL 12 GA VERTICAL HANGER WIRE MINIMUM THREE TIGHT TURNS IN 1-1/2" MAIN RUNNER OR CROSS RUNNER ACT 2" 8" MAX. 1 1/2" TRIM ANGLE POP RIVET (PAINT TO MATCH TRIM) SCREW AT EACH STUD							
D																				
C																				
B																				
A																				
					HANGER WIRE — ACT				C	CEILING ISOMETRIC — GRID				B	CEILING JOINT — ACT FIXED END				A	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				

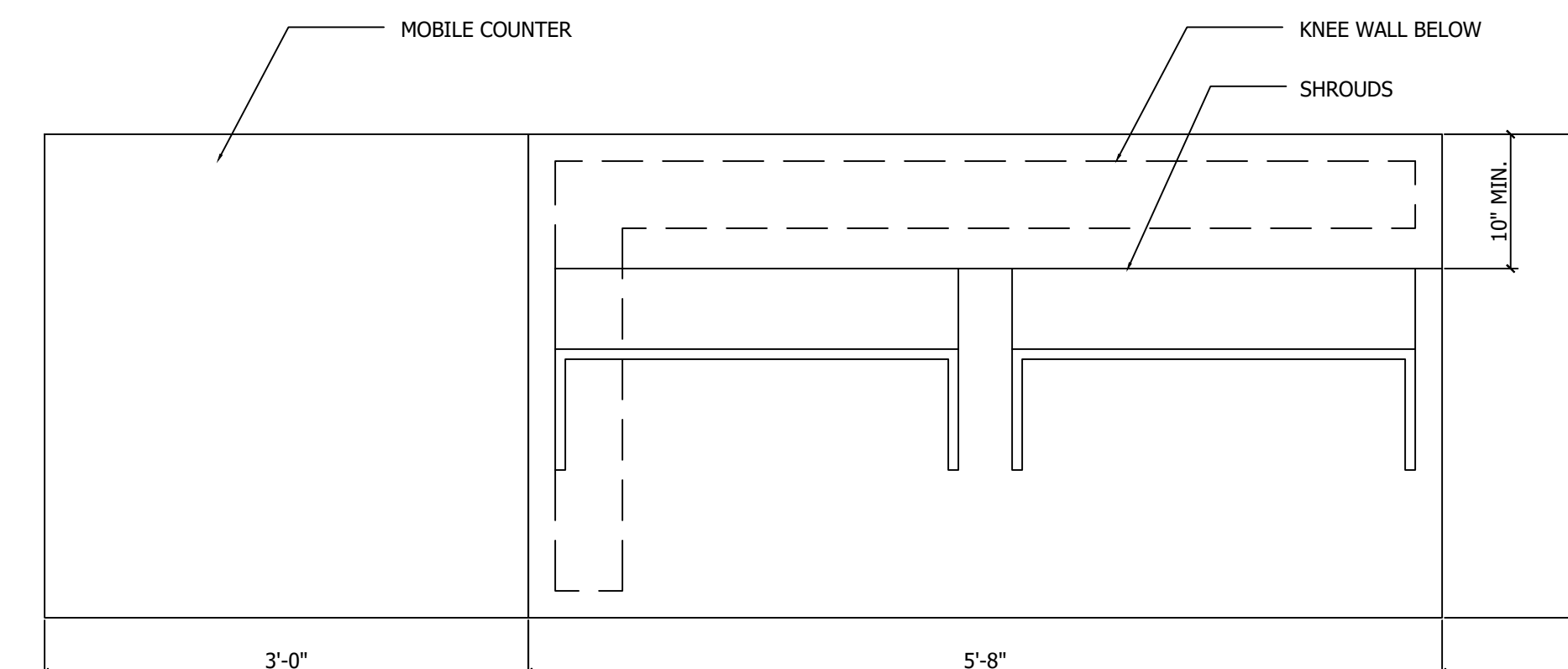
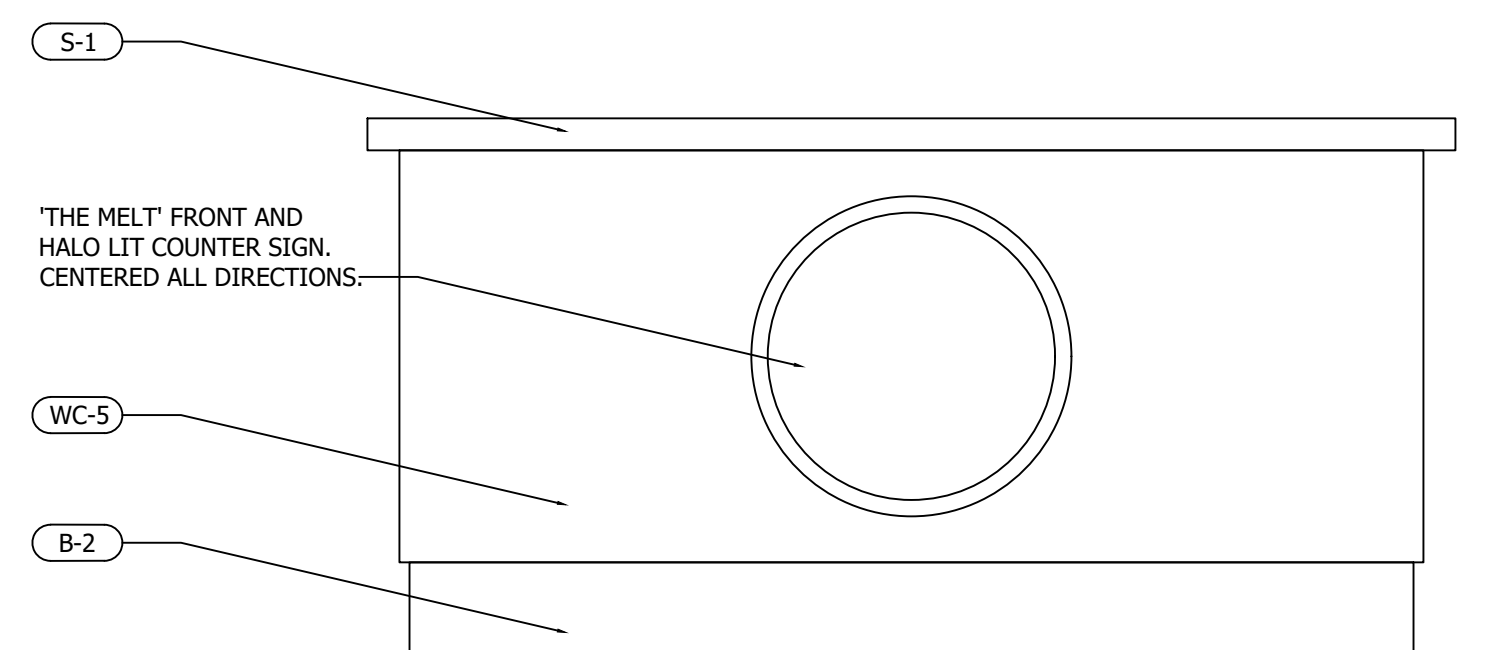
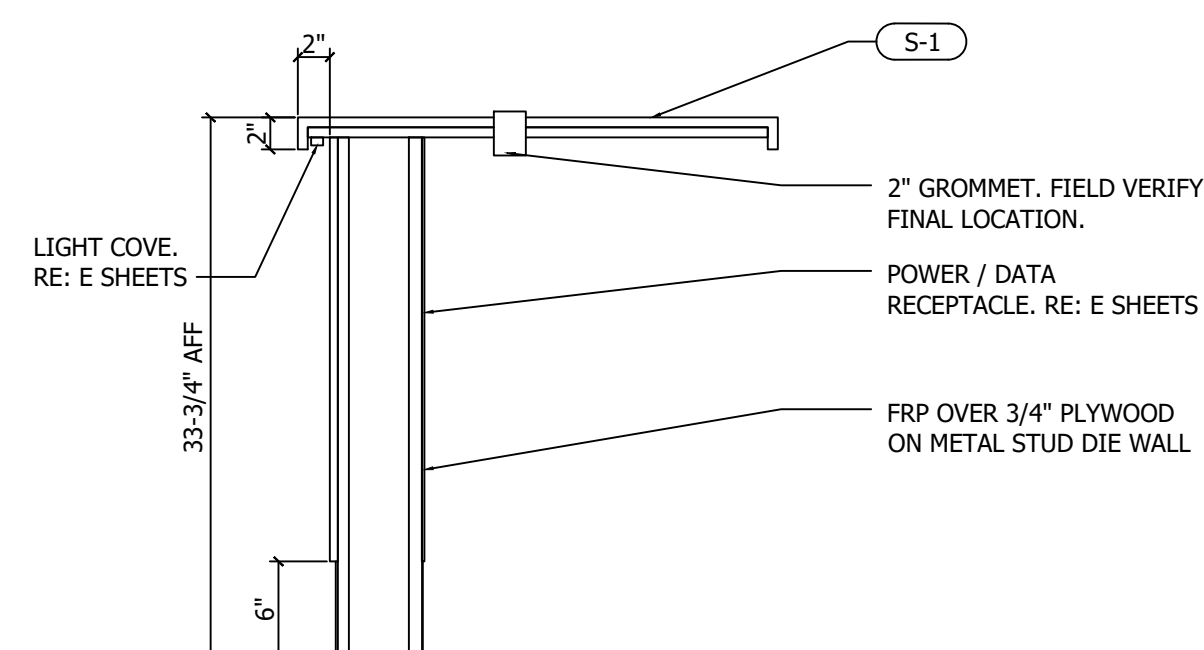


the MELT
THE DAVIS COLLECTION
865 RUSSELL BLVD
SUITE #110
DAVIS, CA 95616

[illegible]

SHEET TITLE:
DETAILS

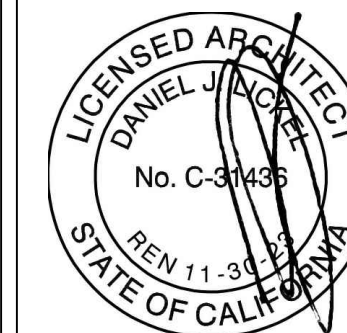
SHEET NUMBER:
A8.1



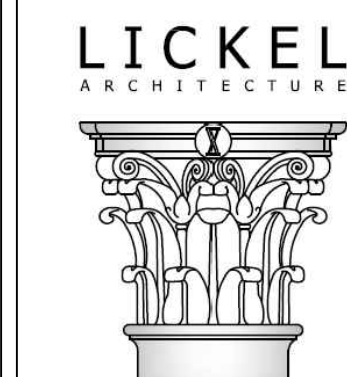
POINT OF SALE – SECTION

POINT OF SALE – FRONT VIEW

POINT OF SALE – PLAN VIEW



SIGNATURE DATE: 12.4.2024



14 West 3rd Street Suite 10
Kansas City, MO 64105
(P) 816.421.0707
(F) 816.421.9291

the MELT
THE DAVIS COLLECTION
865 RUSSELL BLVD
SUITE #110
DAVIS, CA 95616

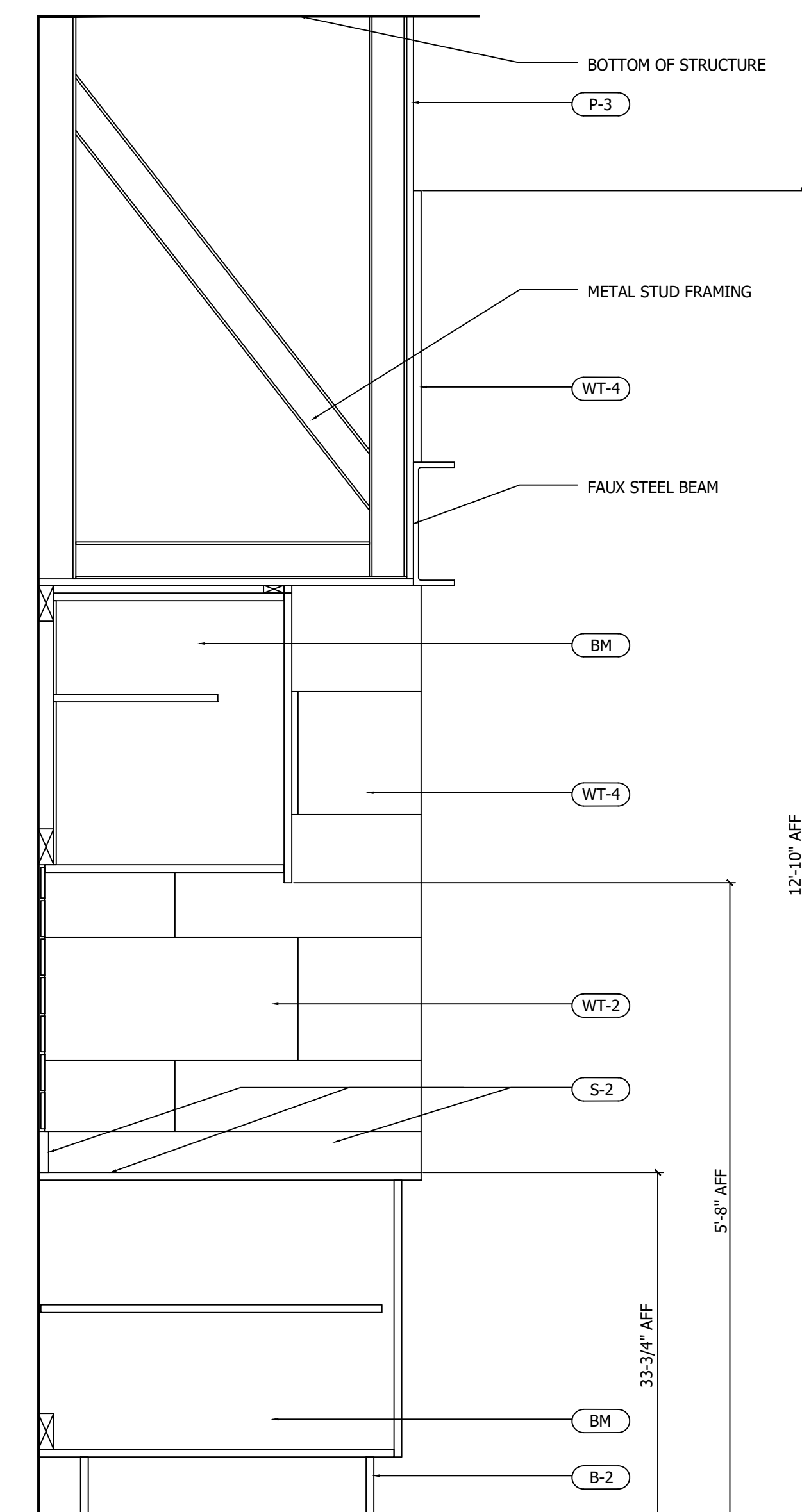
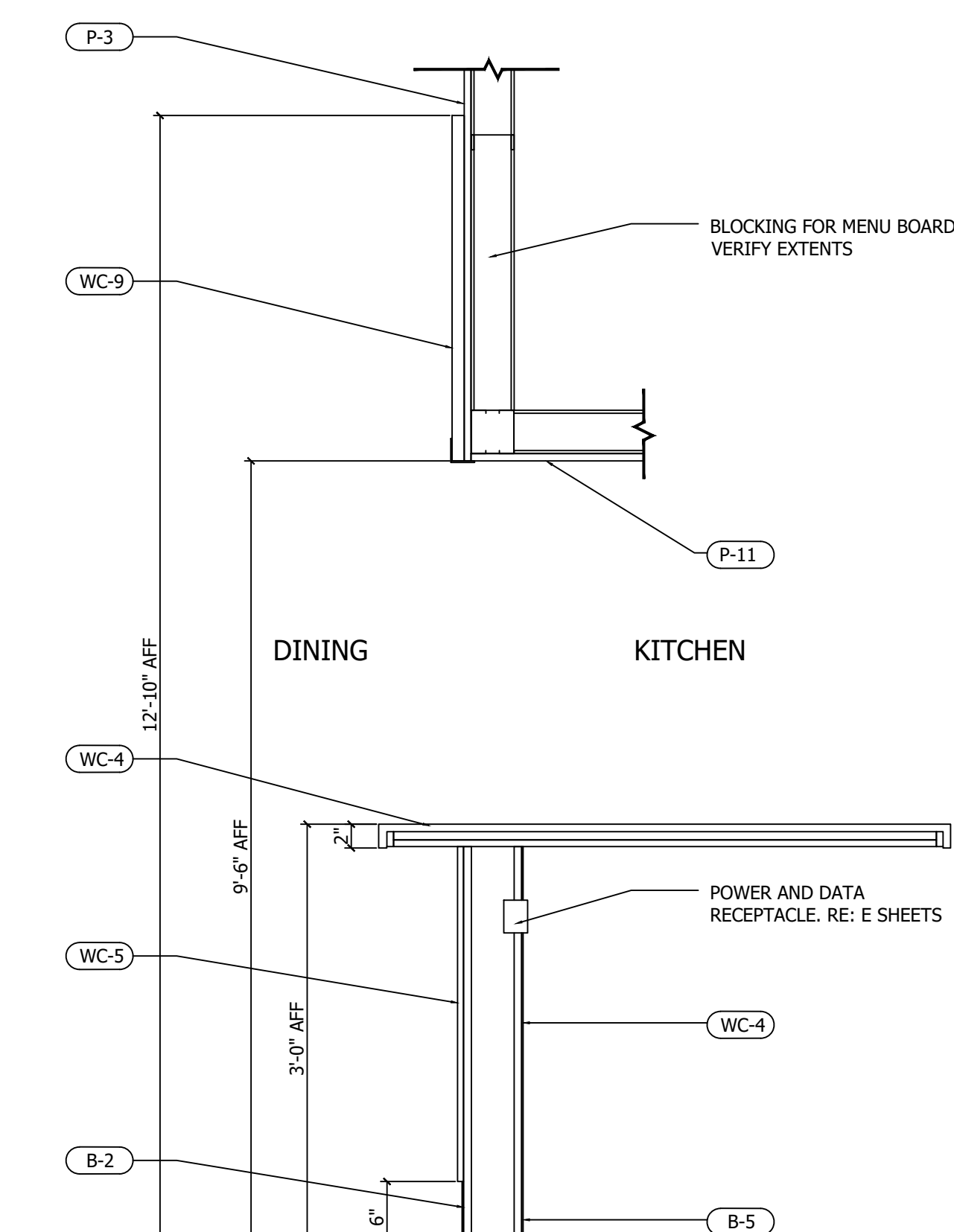
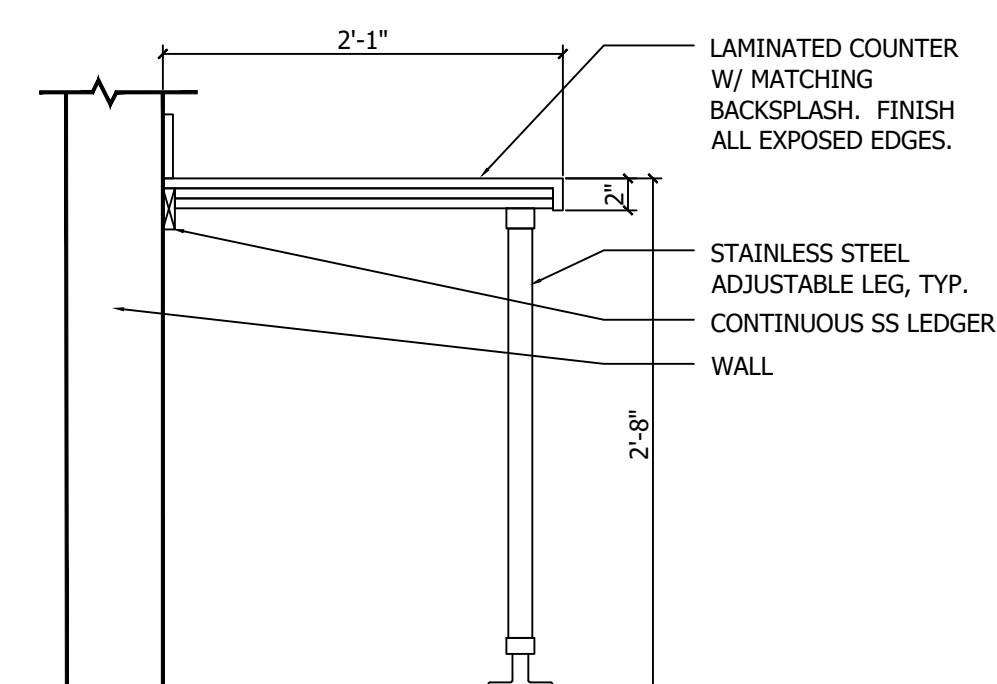
[illegible]

SHEET TITLE:

DETAILS

SHEET NUMBER:

A8.2

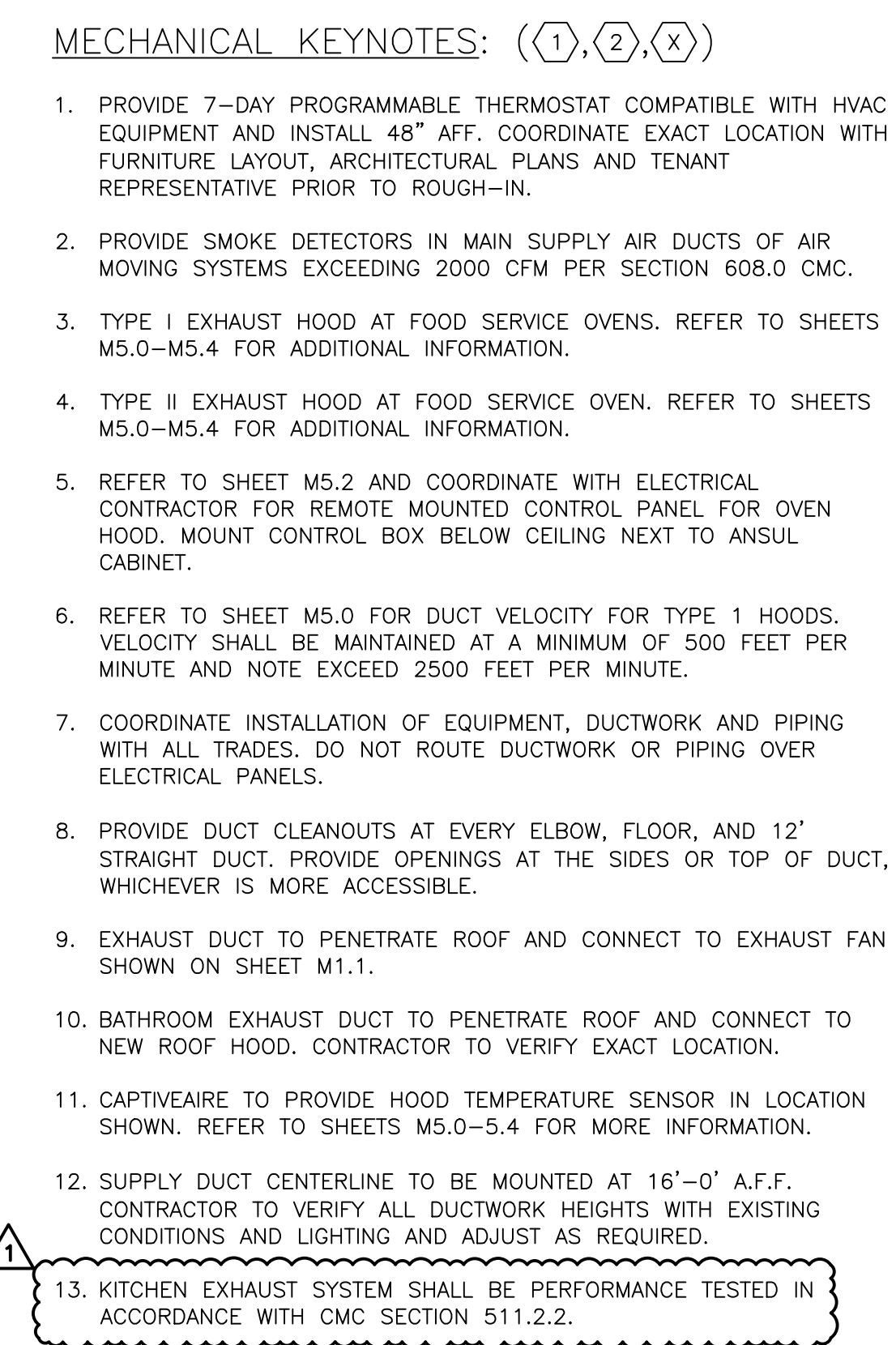


MANAGER'S DESK

EXPO COUNTER

FOUNTAIN STATION

A



SIGNATURE DATE: 01/16/2024

Mech. Engineer of Record
Charles C. Freeman, P.E.
11880 COLLEGE BLVD, STE 475
OVERLAND PARK, KS 66210
P 913 322 5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

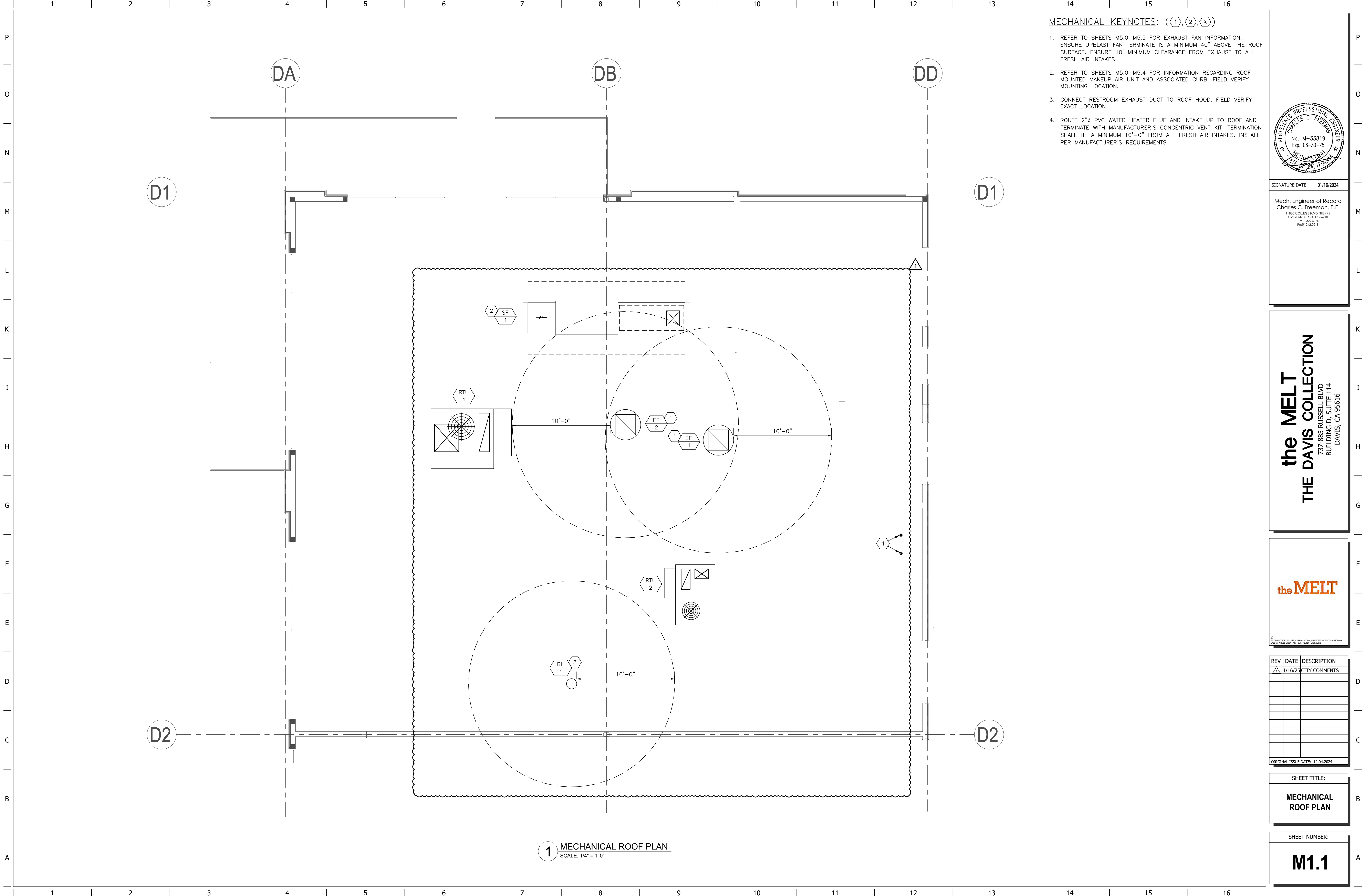
theMELT

[illegible]

SHEET TITLE:
MECHANICAL PLAN

SHEET NUMBER:

M1.0



- MECHANICAL KEYNOTES: ((1),(2),(X))
1. REFER TO SHEETS M5.0–M5.5 FOR EXHAUST FAN INFORMATION. ENSURE UPBLAST FAN TERMINATE IS A MINIMUM 40" ABOVE THE ROOF SURFACE. ENSURE 10' MINIMUM CLEARANCE FROM EXHAUST TO ALL FRESH AIR INTAKES.
 2. REFER TO SHEETS M5.0–M5.4 FOR INFORMATION REGARDING ROOF MOUNTED MAKEUP AIR UNIT AND ASSOCIATED CURB. FIELD VERIFY MOUNTING LOCATION.
 3. CONNECT RESTROOM EXHAUST DUCT TO ROOF HOOD. FIELD VERIFY EXACT LOCATION.
 4. ROUTE 2"Ø PVC WATER HEATER FLUE AND INTAKE UP TO ROOF AND TERMINATE WITH MANUFACTURER'S CONCENTRIC VENT KIT. TERMINATION SHALL BE A MINIMUM 10'–0" FROM ALL FRESH AIR INTAKES. INSTALL PER MANUFACTURER'S REQUIREMENTS.

SIGNATURE DATE: 01/16/2024

Mech. Engineer of Record
Charles C. Freeman, P.E.
11880 COLLEGE BLVD, STE 405
OVERLAND PARK, KS 66210
P 913.522.5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

theMELT

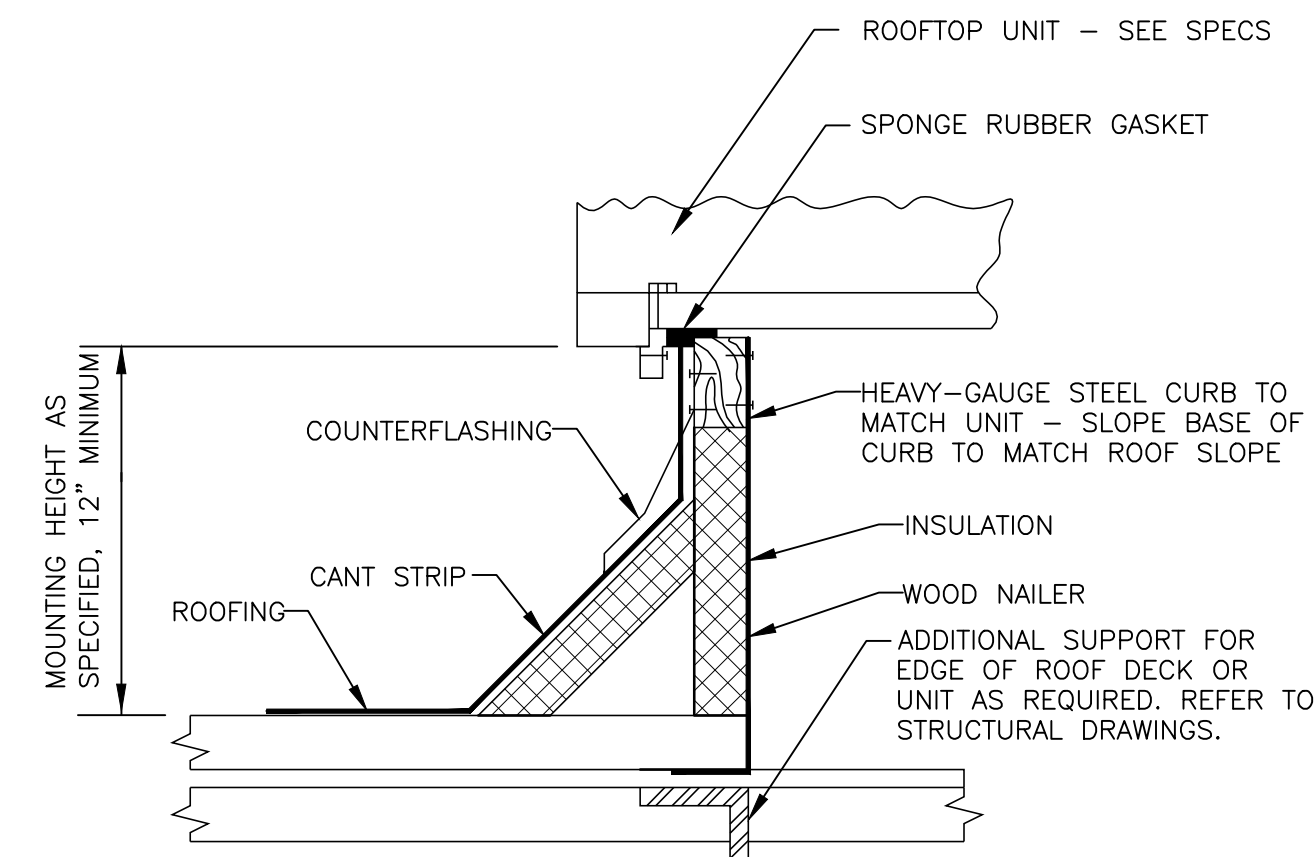
© 2024 THE DAVIS COLLECTION. ALL RIGHTS RESERVED. NO REPRODUCTION, DISTRIBUTION OR SALE BY WHOLE OR IN PART, IS EXPRESSLY FORBIDDEN.

REV	DATE	DESCRIPTION
1	1/16/25	CITY COMMENTS

ORIGINAL ISSUE DATE: 12.04.2024

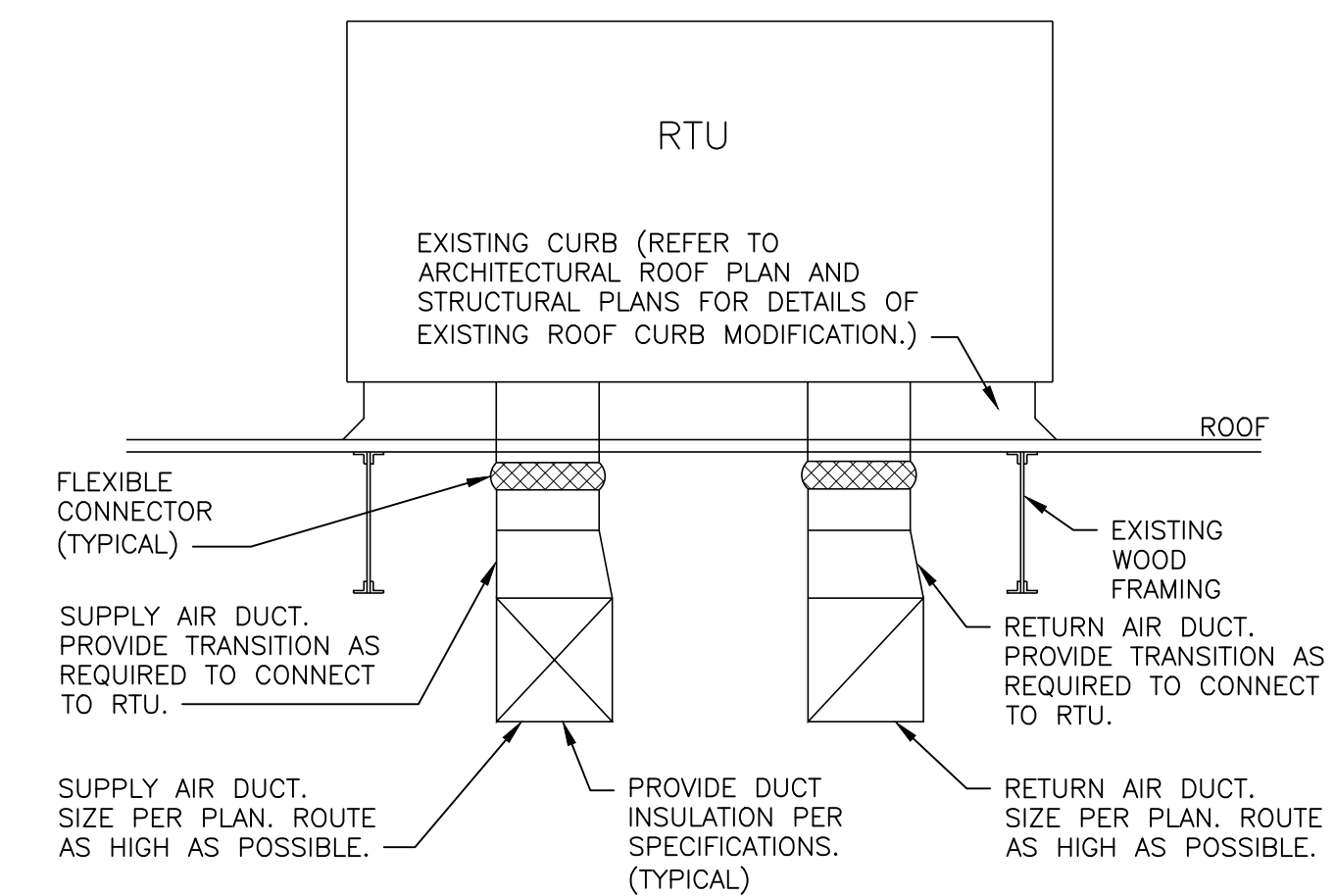
SHEET TITLE:
MECHANICAL
ROOF PLAN

SHEET NUMBER:
M1.1



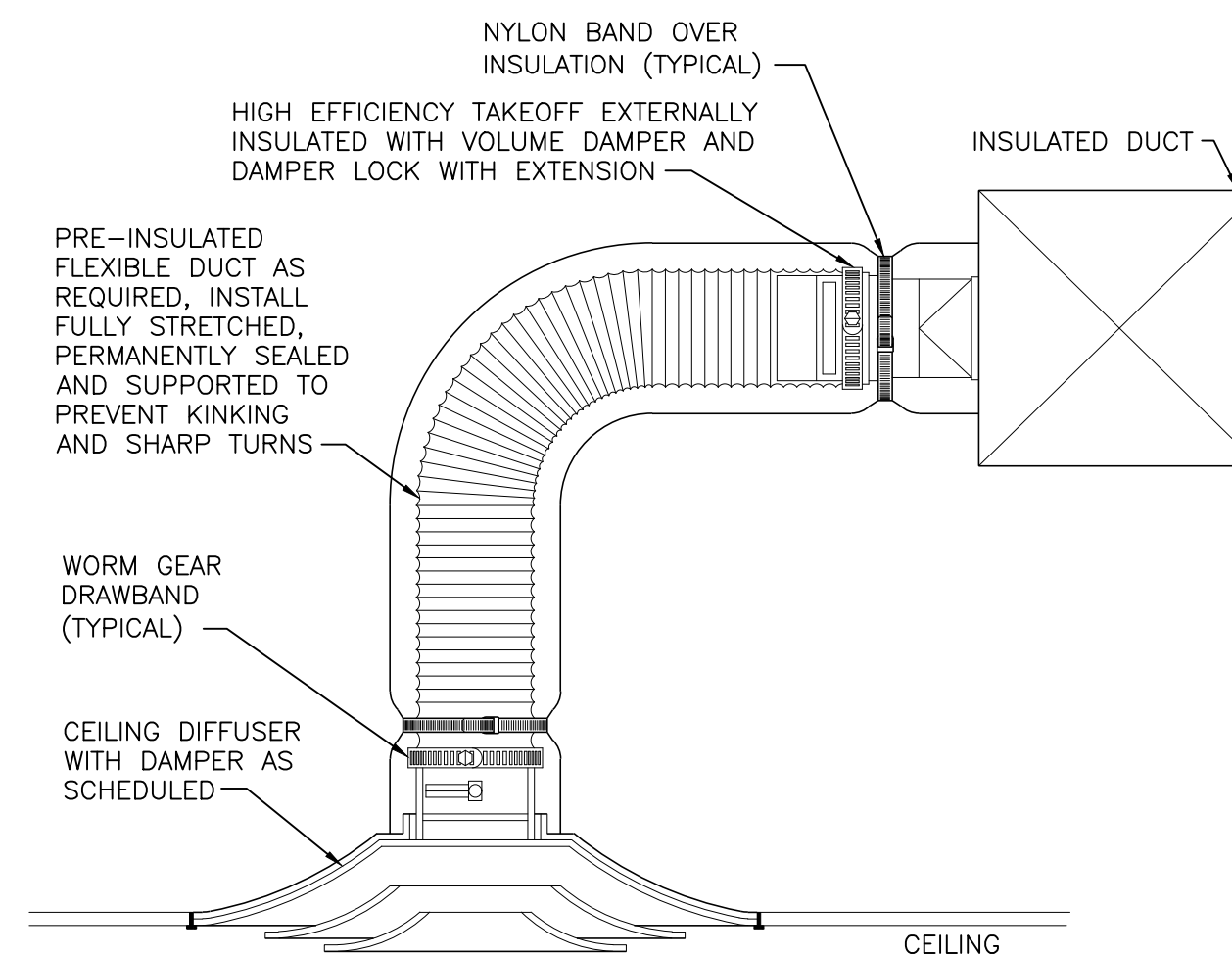
5 ROOF EQUIPMENT CURB

SCALE: NOT TO SCALE

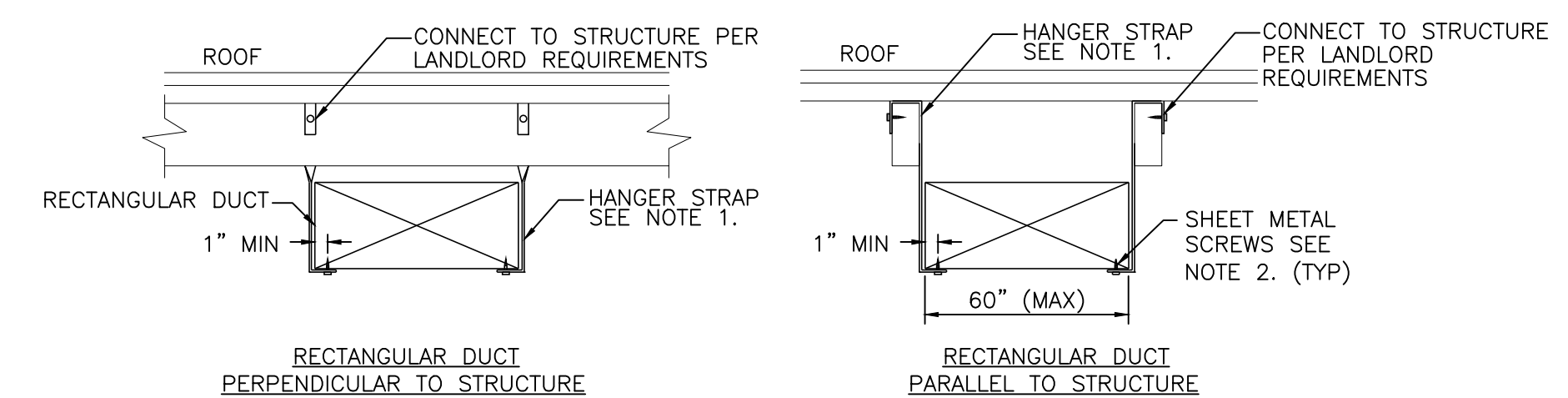


4 ROOF TOP UNIT MOUNTING DETAIL

SCALE: NOT TO SCALE

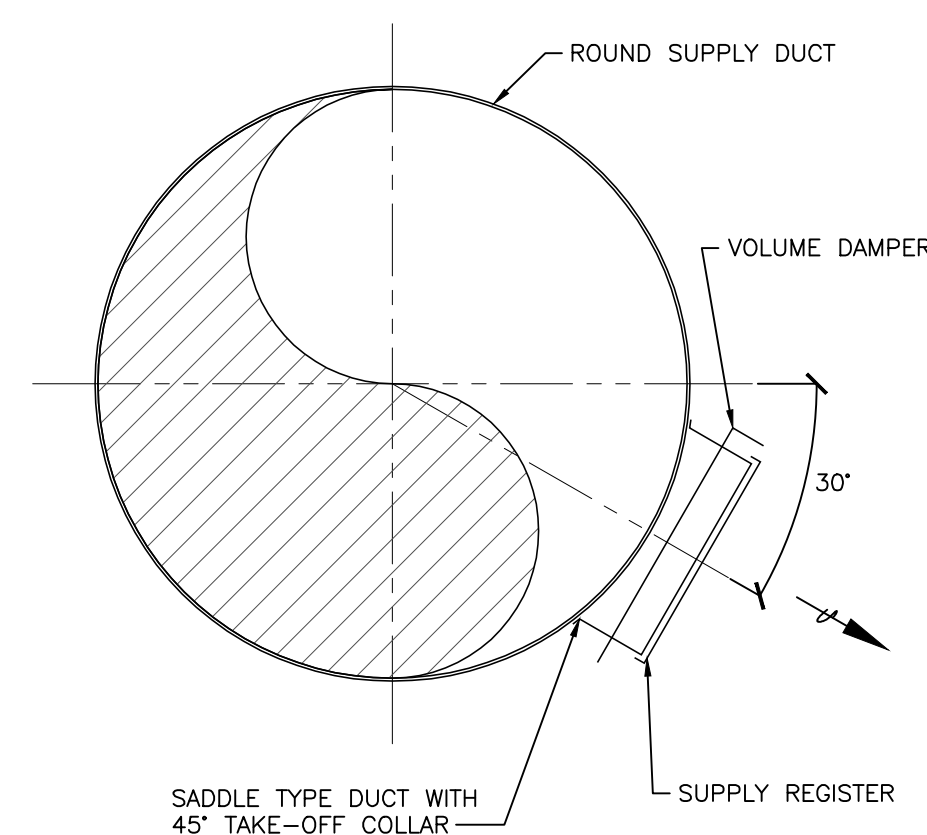


3 LAY-IN CEILING DIFFUSER DETAIL

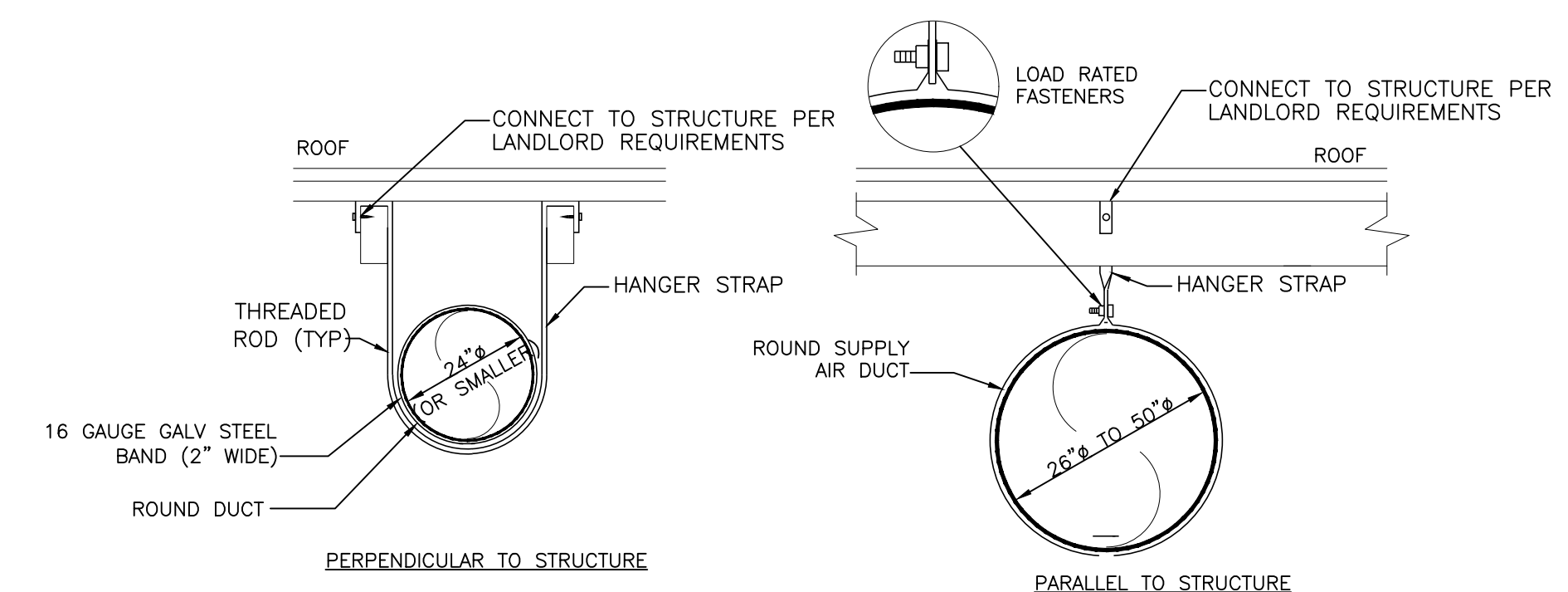


NOTE:

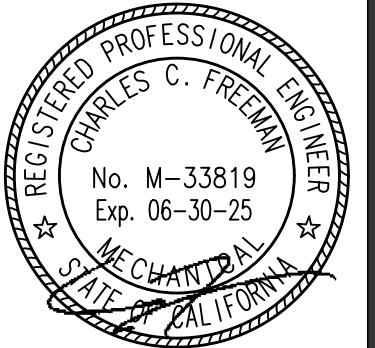
1. USE THREADED ROD FOR ALL DUCTS LARGER THAN 60"Ø WIDE.
2. SHEET METAL SCREWS MAY BE OMITTED IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE DUCT.



2 ROUND DUCT MOUNTED SUPPLY DETAIL



1 HANGER AND SUPPORT DETAILS - LOW PRESSURE DUCTWORK



SIGNATURE DATE:	01/16/2024
-----------------	------------

Mech. Engineer of Record
Charles C. Freeman, P.E.
11880 COLLEGE BLVD., STE 475
OVERLAND PARK, KS 66210
P 913 322 5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

theMELT

[illegible]

ORIGINAL ISSUE DATE: 12.04.2024

SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:

M2.0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

P

O

N

M

L

K

J

H

G

F

E

D

C

B

A

ROOFTOP AIR CONDITIONING UNIT SCHEDULE - HEAT PUMP

MARK	MANUFACTURER	MODEL	SUPPLY AIR	MIN OA	SUPPLY FAN		COOLING COIL			HEATING DATA				ELEC HEAT	UNIT ELECTRICAL DATA			WEIGHT (LBS)	NOTES
RTU-1	DAIKIN	DPSH10B	4000	1200	ESP	HP	TOTAL (MBH)	EAT (DB/WB)	(SEER2) EER	COP	HSPF2	MBH @ 47°F	MBH @ 17°F	INPUT (KW)	V/PH/HZ	MCA	MOCP		
RTU-2	DAIKIN	DHH036J	1200	300	0.8	1	33.0	80/67	(16.4)	--	7.4	108.3	75.3	18	208/3/60	133.5	150	2676	A-J

NOTES:
A. ALL COOLING CAPACITIES SHOWN ARE BASED ON AN AMBIENT OUTDOOR TEMPERATURE OF 105°F, 100.2°F DB & 69.6°F WB SUMMER DESIGN TEMPERATURE AND A WINTER DESIGN TEMPERATURE OF 31.5°F.
B. PROVIDE ALL NEW FILTERS, MERV 8 MINIMUM, PRIOR TO TEST AND BALANCE WORK.
C. PROVIDE WITH FACTORY INSTALLED HINGED ACCESS PANELS AND LOUVERED HAIL GUARDS.
D. PROVIDE WITH UNPOWERED GFCI CONVENIENCE OUTLET.
E. PROVIDE WITH FIXED DRY BULB AND FIXED ENTHALPY CONTROLLED TITLE 24 COMPLIANT LOW LEAK ECONOMIZER WITH FDD AND BAROMETRIC RELIEF.
F. PROVIDE UNIT WITH 14" HIGH ROOF CURB.
G. PROVIDE WATER SENSING SWITCH IN CONDENSATE PAN HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM. THE UNIT SHALL SHUT DOWN UPON ALARM FROM SWITCH.
H. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH AND THRU-THE-BASE CONNECTIONS.
J. PROVIDE WITH FACTORY INSTALLED SUPPLY AND RETURN SMOKE DETECTORS.

NOTE: REFRIGERANT BASIS OF DESIGN – R32

MAKE-UP AIR UNIT SCHEDULE

MARK	TYPE	CFM TOTAL	FAN DRIVE	EXT. S.P. IN IN H2O	MAXIMUM RPM	SONES	MOTOR H.P.	EVAPORATIVE COOLER		GAS HEATING			WEIGHT IN LBS.	MCA	MOCP	V _a /HZ	BASIS OF DESIGN	NOTES	
								FLOW RATE (GAL/HR)	ENTERING TEMP. DB/WB	LEAVING TEMP. DB/WB	INPUT BTUH	OUTPUT BTUH	GAS TYPE						
SF-1	FILTERED MAKE-UP AIR SUPPLY FAN	2500	DIRECT	0.5	1161	8.9	1.5	3.59	97.0/69.0	77.0/69.0	118876	109366	NATURAL	1163	8.3	15	208/3/60	CAPTIVEAIRE A2-D.500-20D	A-M

NOTES:
A. SIZE 2 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS.
B. REFER TO ELECTRICAL PROJECT DOCUMENTS FOR ALL REQUIRED INTERLOCKS.
C. ELECTRICAL INTERLOCK BETWEEN SF-1, EF-1, AND EF-2 SHALL BE PROVIDED.
D. INLET PRESSURE GAUGE, 0–35", MANIFOLD PRESSURE GAUGE, –5 TO 15" WC, BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VOLVE), SHIP LOOSE GAS STRAINER 1".
E. CASLINK BUILDING MONITORING SYSTEM – INTERNET OR CELLULAR CONNECTION REQUIRED.
F. MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING – MEETS AMCA CLASS 1A RATING.
G. IBT/MUA EVAP INTERLOCK.
H. DUCT MOUNTED SMOKE DETECTOR.
J. DOUBLE WALL STEEL LINER – SIZE 2 DIRECT DRIVE.
K. CLOGGED FILTER SWITCH – NOTIFICATION ON HMI.
L. INSULATION OPTION FOR VBANK FILTER SECTION.
M. SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) – THREE PHASE ONLY.

ROOF HOOD

MARK	MANUFACTURER	MODEL NUMBERS	SERVICE	CFM	THROAT SIZE (IN)	PRESSURE DROP (IN H2O)	WEIGHT IN LBS.	NOTES
RH – 1	GREENHECK	GRSR10	EXHAUST	150	10	0.08	8	A,B,C

NOTES
A. PROVIDE WITH MANUFACTURERS 14" ROOF CURB.
B. PROVIDE WITH BIRDSCREEN.
C. PROVIDE WITH BACKDRAFT DAMPER.

EXHAUST AIR FAN SCHEDULE

MARK	TYPE	CFM	S.P. IN INCHES IN H2O	MAX FAN RPM	SONES	FAN DRIVE	WEIGHT IN LBS.	MOTOR H.P.	V _a /HZ	BASIS DESIGN	NOTES
EF – 1	HOOD EXH. FAN	2354	0.95	1005	10.1	DIRECT	214	1.50	208/3/60	CAPTIVEAIRE DU180HFA	A,B,C,J
EF – 2	HOOD EXH FAN	1125	0.25	1092	4.1	DIRECT	115	0.75	115/1/60	CAPTIVEAIRE DU85HFA	A,B,C,J
EF – 3, 4	RESTROOM EXH. FAN	150	0.3	993	2.5	DIRECT	31	0.067	115/1/60	GREENHECK SP-A390-VG	D,E,F,G,H

NOTES:
A. ACCESSORIES INCLUDED: EXTENDED ROOF CURB (HEIGHT AS REQUIRED TO MEET CODE – DISCHARGE @ MIN. 40" ABOVE ROOFLINE); NEMA 3R NFDS;
CONSTRUCTED TO MEET NFPA 96 & UL 762; WITH U.L. LISTING REQUIRED.
B. REFER TO ELECTRICAL PROJECT DOCUMENTS FOR ALL REQUIRED INTERLOCK. VERIFY PROPER OPERATION.
C. REFER TO HOOD MANUFACTURER DRAWINGS FOR MORE INFORMATION.
D. AMCA SEAL AND U.L LISTED.
E. FAN SPEED CONTROLLER WITH ROOM LIGHT SWITCH
F. INTERLOCK WITH ROOM LIGHT SWITCH.
G. BACKDRAFT DAMPER – GRAVITY
H. GRILL-DECORATIVE.
J. TURBINE UPDRAFT EXHAUST FANS SHALL BE HINGED AND CHAINED FOR CLEANING OF VERTICAL DUCT PER SECTION 511.1.1 CMC.

AIR BALANCE SCHEDULE

EQUIPMENT LABELS & DESCRIPTIONS	TOTAL AIRFLOW PER UNIT (CFM)	RECIRCULATED RETURN AIRFLOW (CFM)	FRESH "OUTSIDE" AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	BUILDING PRESSURE (CFM)	REMARKS
KITCHEN						
EF – 2 (HOOD EXHAUST)	1125	--	--	-1125	-1125	
EF – 1 (HOOD EXHAUST)	2354	--	--	-2354	-2354	
SF – 1	2500	--	2500	--	2500	
MAKE-UP AIR FROM DINING	600	--	--	--	600	
				TOTAL	-379	
OVERALL BUILDING						
RTU – 1	4000	2800	1200	--	1200	
RTU – 2	1200	900	300	--	300	
EF – 1 (HOOD EXHAUST)	2354	--	--	-2354	-2354	
EF – 2 (HOOD EXHAUST)	1125	--	--	-1125	-1125	
EF – 3 (TOILET EXHAUST)	150	--	--	-150	-150	
EF – 4 (TOILET EXHAUST)	150	--	--	-150	-150	
SF – 1	2500	--	2500	--	2500	
RESULTING BUILDING PRESSURIZATION (CFM) *					221	
* RESULTING BUILING PRESSURIZATION = (+FRESH/OUTSIDE AIR FLOW) + (-EXHAUST AIR FLOW); IF NET AIRFLOW IS "+" CFM = BLDG. POSITIVE PRESSURE IF NET AIRFLOW "-" CFM = BLDG. NEGATIVE PRESSURE.						

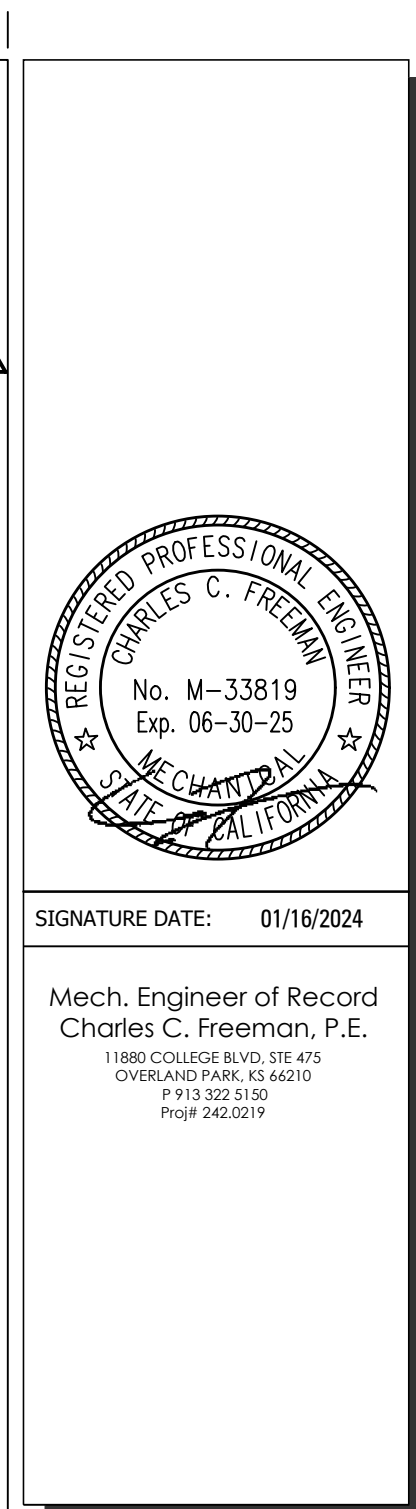
MINIMUM OUTDOOR AIR REQUIREMENTS

ROOM	AREA IN SQ. FT	PEOPLE PER 1000 SQ. FT	CFM PER PERSON	CFM PER SQ. FT	EXHAUST REQUIRED CFM	CODE REQUIRED OA CFM
SALES AREA 101	1938	--	--	0.25	485	485
STORAGE AREA 102	674	--	--	0.15	101	101
RESTROOM	49	--	--	--	70	--
*TOTAL					586	

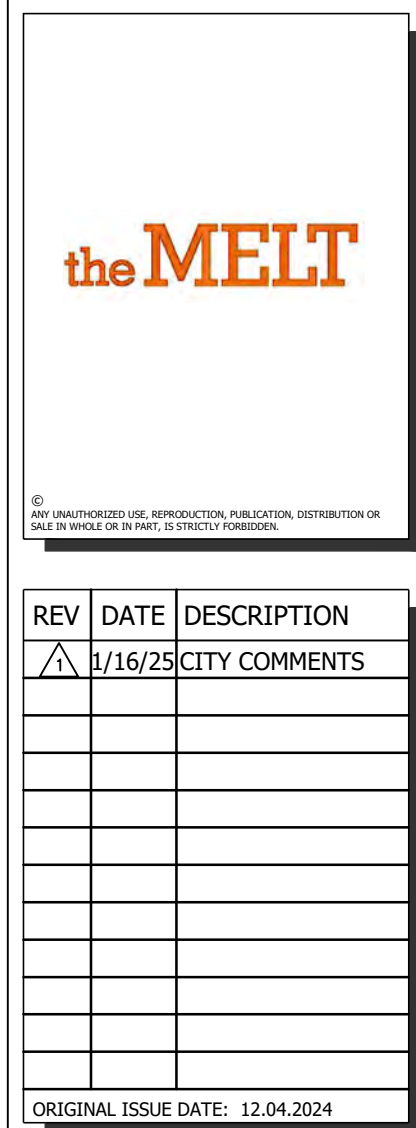
GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	FACE SIZE (IN)	NOTE
S1	TITUS	OMNI	PLAQUE	LAY-IN	24"x24"	A,B,C,E
S2	TITUS	PAS	PERFORATED	CEILING	24"x24"	A,C,D,E
S3	TITUS	300RS	LOUVERED	DUCT	NECK + 2"	A,B,C,D,E,G
R1	TITUS	350RS	LOUVERED	LAY-IN	NECK + 2"	A,C,D,E

NOTES:
A. NECK SIZE SHOWN ON DRAWINGS.
B. 4-WAY THROW PATTERN UNLESS OTHERWISE SHOWN ON DRAWINGS.
C. WHITE POWDER COAT FINISH.
D. FINISH PER ARCHITECT. VERIFY PRIOR TO SUBMITTAL.
E. BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
F. RAPID MOUNT FRAME.
G. PROVIDE OPOSED BLADE DAMPER OPERABLE FROM FACE OF DIFFUSER.



the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616



SHEET TITLE:

**MECHANICAL
SCHEDULES**

SHEET NUMBER:

M3.0

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE
NRCC-MCH-4
(Page 1 of 13)
Project Name: The Mel - Davis CA
Project Address: 737-885 Russell Blvd, Suite 114, Davis, CA 95616
Report Page: (Page 1 of 13)
Date Prepared: 2025-01-16T15:30:49-05:00

A. GENERAL INFORMATION
01 Project Location (city): Davis
02 Climate Zone: 12
03 Occupancy Types Within Project: Restaurant
04 Total Conditioned Floor Area: 2990
05 Total Unconditioned Floor Area: 1
06 # of Stories (Habitable Above Grade): 1

B. PROJECT SCOPE
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)(2) for alterations.
01 Air System(s)
02 Wet System Components
03 Dry System Components
04 Heating Air System
05 Water Economizer
06 Air Economizer
07 Cooling Air System
08 Pumps
09 Electric Resistance Heat
10 Mechanical Controls
11 System Piping
12 Fan Systems
13 Mechanical Controls (existing to remain, altered or new)
14 Cooling Towers
15 Ductwork (existing to remain, altered or new)
16 Chillers
17 Ventilation
18 Boilers
19 Zonal Systems/ Terminal Boxes

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 212167-0125-0008
Schema Version: rev 20220101
Report Generated: 2025-01-16 12:30:56

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
Mechanical Systems
CERTIFICATE OF COMPLIANCE
NRCC-MCH-4
(Page 4 of 13)
Project Name: The Mel - Davis CA
Project Address: 737-885 Russell Blvd, Suite 114, Davis, CA 95616
Report Page: (Page 4 of 13)
Date Prepared: 2025-01-16T15:30:49-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)
01 System Name
02 Quantity
03 System Serving
04 System Status
05 Space Type
06 Utilizing Recovered Heat
07 RTU-1
08 RTU-2
09 SF-1
10 RTU-1
11 RTU-2
12 SF-1
13 RTU-1
14 RTU-2
15 SF-1
16 RTU-1
17 RTU-2
18 SF-1
19 RTU-1
20 RTU-2
21 SF-1
22 RTU-1
23 RTU-2
24 SF-1
25 RTU-1
26 RTU-2
27 SF-1
28 RTU-1
29 RTU-2
30 SF-1
31 RTU-1
32 RTU-2
33 SF-1
34 RTU-1
35 RTU-2
36 SF-1
37 RTU-1
38 RTU-2
39 SF-1
40 RTU-1
41 RTU-2
42 SF-1
43 RTU-1
44 RTU-2
45 SF-1
46 RTU-1
47 RTU-2
48 SF-1
49 RTU-1
50 RTU-2
51 SF-1
52 RTU-1
53 RTU-2
54 SF-1
55 RTU-1
56 RTU-2
57 SF-1
58 RTU-1
59 RTU-2
60 SF-1
61 RTU-1
62 RTU-2
63 SF-1
64 RTU-1
65 RTU-2
66 SF-1
67 RTU-1
68 RTU-2
69 SF-1
70 RTU-1
71 RTU-2
72 SF-1
73 RTU-1
74 RTU-2
75 SF-1
76 RTU-1
77 RTU-2
78 SF-1
79 RTU-1
80 RTU-2
81 SF-1
82 RTU-1
83 RTU-2
84 SF-1
85 RTU-1
86 RTU-2
87 SF-1
88 RTU-1
89 RTU-2
90 SF-1
91 RTU-1
92 RTU-2
93 SF-1
94 RTU-1
95 RTU-2
96 SF-1
97 RTU-1
98 RTU-2
99 SF-1
100 RTU-1
101 RTU-2
102 SF-1
103 RTU-1
104 RTU-2
105 SF-1
106 RTU-1
107 RTU-2
108 SF-1
109 RTU-1
110 RTU-2
111 SF-1
112 RTU-1
113 RTU-2
114 SF-1
115 RTU-1
116 RTU-2
117 SF-1
118 RTU-1
119 RTU-2
120 SF-1
121 RTU-1
122 RTU-2
123 SF-1
124 RTU-1
125 RTU-2
126 SF-1
127 RTU-1
128 RTU-2
129 SF-1
130 RTU-1
131 RTU-2
132 SF-1
133 RTU-1
134 RTU-2
135 SF-1
136 RTU-1
137 RTU-2
138 SF-1
139 RTU-1
140 RTU-2
141 SF-1
142 RTU-1
143 RTU-2
144 SF-1
145 RTU-1
146 RTU-2
147 SF-1
148 RTU-1
149 RTU-2
150 SF-1
151 RTU-1
152 RTU-2
153 SF-1
154 RTU-1
155 RTU-2
156 SF-1
157 RTU-1
158 RTU-2
159 SF-1
160 RTU-1
161 RTU-2
162 SF-1
163 RTU-1
164 RTU-2
165 SF-1
166 RTU-1
167 RTU-2
168 SF-1
169 RTU-1
170 RTU-2
171 SF-1
172 RTU-1
173 RTU-2
174 SF-1
175 RTU-1
176 RTU-2
177 SF-1
178 RTU-1
179 RTU-2
180 SF-1
181 RTU-1
182 RTU-2
183 SF-1
184 RTU-1
185 RTU-2
186 SF-1
187 RTU-1
188 RTU-2
189 SF-1
190 RTU-1
191 RTU-2
192 SF-1
193 RTU-1
194 RTU-2
195 SF-1
196 RTU-1
197 RTU-2
198 SF-1
199 RTU-1
200 RTU-2
201 SF-1
202 RTU-1
203 RTU-2
204 SF-1
205 RTU-1
206 RTU-2
207 SF-1
208 RTU-1
209 RTU-2
210 SF-1
211 RTU-1
212 RTU-2
213 SF-1
214 RTU-1
215 RTU-2
216 SF-1
217 RTU-1
218 RTU-2
219 SF-1
220 RTU-1
221 RTU-2
222 SF-1
223 RTU-1
224 RTU-2
225 SF-1
226 RTU-1
227 RTU-2
228 SF-1
229 RTU-1
230 RTU-2
231 SF-1
232 RTU-1
233 RTU-2
234 SF-1
235 RTU-1
236 RTU-2
237 SF-1
238 RTU-1
239 RTU-2
240 SF-1
241 RTU-1
242 RTU-2
243 SF-1
244 RTU-1
245 RTU-2
246 SF-1
247 RTU-1
248 RTU-2
249 SF-1
250 RTU-1
251 RTU-2
252 SF-1
253 RTU-1
254 RTU-2
255 SF-1
256 RTU-1
257 RTU-2
258 SF-1
259 RTU-1
260 RTU-2
261 SF-1
262 RTU-1
263 RTU-2
264 SF-1
265 RTU-1
266 RTU-2
267 SF-1
268 RTU-1
269 RTU-2
270 SF-1
271 RTU-1
272 RTU-2
273 SF-1
274 RTU-1
275 RTU-2
276 SF-1
277 RTU-1
278 RTU-2
279 SF-1
280 RTU-1
281 RTU-2
282 SF-1
283 RTU-1
284 RTU-2
285 SF-1
286 RTU-1
287 RTU-2
288 SF-1
289 RTU-1
290 RTU-2
291 SF-1
292 RTU-1
293 RTU-2
294 SF-1
295 RTU-1
296 RTU-2
297 SF-1
298 RTU-1
299 RTU-2
300 SF-1
301 RTU-1
302 RTU-2
303 SF-1
304 RTU-1
305 RTU-2
306 SF-1
307 RTU-1
308 RTU-2
309 SF-1
310 RTU-1
311 RTU-2
312 SF-1
313 RTU-1
314 RTU-2
315 SF-1
316 RTU-1
317 RTU-2
318 SF-1
319 RTU-1
320 RTU-2
321 SF-1
322 RTU-1
323 RTU-2
324 SF-1
325 RTU-1
326 RTU-2
327 SF-1
328 RTU-1
329 RTU-2
330 SF-1
331 RTU-1
332 RTU-2
333 SF-1
334 RTU-1
335 RTU-2
336 SF-1
337 RTU-1
338 RTU-2
339 SF-1
340 RTU-1
341 RTU-2
342 SF-1
343 RTU-1
344 RTU-2
345 SF-1
346 RTU-1
347 RTU-2
348 SF-1
349 RTU-1
350 RTU-2
351 SF-1
352 RTU-1
353 RTU-2
354 SF-1
355 RTU-1
356 RTU-2
357 SF-1
358 RTU-1
359 RTU-2
360 SF-1
361 RTU-1
362 RTU-2
363 SF-1
364 RTU-1
365 RTU-2
366 SF-1
367 RTU-1
368 RTU-2
369 SF-1
370 RTU-1
371 RTU-2
372 SF-1
373 RTU-1
374 RTU-2
375 SF-1
376 RTU-1
377 RTU-2
378 SF-1
379 RTU-1
380 RTU-2
381 SF-1
382 RTU-1
383 RTU-2
384 SF-1
385 RTU-1
386 RTU-2
387 SF-1
388 RTU-1
389 RTU-2
390 SF-1
391 RTU-1
392 RTU-2
393 SF-1
394 RTU-1
395 RTU-2
396 SF-1
397 RTU-1
398 RTU-2
399 SF-1
400 RTU-1
401 RTU-2
402 SF-1
403 RTU-1
404 RTU-2
405 SF-1
406 RTU-1
407 RTU-2
408 SF-1
409 RTU-1
410 RTU-2
411 SF-1
412 RTU-1
413 RTU-2
414 SF-1
415 RTU-1
416 RTU-2
417 SF-1
418 RTU-1
419 RTU-2
420 SF-1
421 RTU-1
422 RTU-2
423 SF-1
424 RTU-1
425 RTU-2
426 SF-1
427 RTU-1
428 RTU-2
429 SF-1
430 RTU-1
431 RTU-2
432 SF-1
433 RTU-1
434 RTU-2
435 SF-1
436 RTU-1
437 RTU-2
438 SF-1
439 RTU-1
440 RTU-2
441 SF-1
442 RTU-1
443 RTU-2
444 SF-1
445 RTU-1
446 RTU-2
447 SF-1
448 RTU-1
449 RTU-2
450 SF-1
451 RTU-1
452 RTU-2
453 SF-1
454 RTU-1
455 RTU-2
456 SF-1
457 RTU-1
458 RTU-2
459 SF-1
460 RTU-1
461 RTU-2
462 SF-1
463 RTU-1
464 RTU-2
465 SF-1
466 RTU-1
467 RTU-2
468 SF-1
469 RTU-1
470 RTU-2
471 SF-1
472 RTU-1
473 RTU-2
474 SF-1
475 RTU-1
476 RTU-2
477 SF-1
478 RTU-1
479 RTU-2
480 SF-1
481 RTU-1
482 RTU-2
483 SF-1
484 RTU-1
485 RTU-2
486 SF-1
487 RTU-1
488 RTU-2
489 SF-1
490 RTU-1
491 RTU-2
492 SF-1
493 RTU-1
494 RTU-2
495 SF-1
496 RTU-1
497 RTU-2
498 SF-1
499 RTU-1
500 RTU-2
501 SF-1
502 RTU-1
503 RTU-2
504 SF-1
505 RTU-1
506 RTU-2
507 SF-1
508 RTU-1
509 RTU-2
510 SF-1
511 RTU-1
512 RTU-2
513 SF-1
514 RTU-1
515 RTU-2
516 SF-1
517 RTU-1
518 RTU-2
519 SF-1
520 RTU-1
521 RTU-2
522 SF-1
523 RTU-1
524 RTU-2
525 SF-1
526 RTU-1
527 RTU-2
528 SF-1
529 RTU-1
530 RTU-2
531 SF-1
532 RTU-1
533 RTU-2
534 SF-1
535 RTU-1
536 RTU-2
537 SF-1
538 RTU-1
539 RTU-2
540 SF-1
541 RTU-1
542 RTU-2
543 SF-1
544 RTU-1
545 RTU-2
546 SF-1
547 RTU-1
548 RTU-2
549 SF-1
550 RTU-1
551 RTU-2
552 SF-1
553 RTU-1
554 RTU-2
555 SF-1
556 RTU-1
557 RTU-2
558 SF-1
559 RTU-1
560 RTU-2
561 SF-1
562 RTU-1
563 RTU-2
564 SF-1
565 RTU-1
566 RTU-2
567 SF-1
568 RTU-1
569 RTU-2
570 SF-1
571 RTU-1
572 RTU-2
573 SF-1
574 RTU-1
575 RTU-2
576 SF-1
577 RTU-1
578 RTU-2
579 SF-1
580 RTU-1
581 RTU-2
582 SF-1
583 RTU-1
584 RTU-2
585 SF-1
586 RTU-1
587 RTU-2
588 SF-1
589 RTU-1
590 RTU-2
591 SF-1
592 RTU-1
593 RTU-2
594 SF-1
595 RTU-1
596 RTU-2
597 SF-1
598 RTU-1
599 RTU-2
600 SF-1
601 RTU-1
602 RTU-2
603 SF-1
604 RTU-1
605 RTU-2
606 SF-1
607 RTU-1
608 RTU-2
609 SF-1
610 RTU-1
611 RTU-2
612 SF-1
613 RTU-1
614 RTU-2
615 SF-1
616 RTU-1
617 RTU-2
618 SF-1
619 RTU-1
620 RTU-2
621 SF-1
622 RTU-1
623 RTU-2
624 SF-1
625 RTU-1
626 RTU-2
627 SF-1
628 RTU-1
629 RTU-2
630 SF-1
631 RTU-1
632 RTU-2
633 SF-1
634 RTU-1
635 RTU-2
636 SF-1
637 RTU-1
638 RTU-2
639 SF-1
640 RTU-1
641 RTU-2
642 SF-1
643 RTU-1
644 RTU-2
645 SF-1
646 RTU-1
647 RTU-2
648 SF-1
649 RTU-1
650 RTU-2
651 SF-1
652 RTU-1
653 RTU-2
654 SF-1
655 RTU-1
656 RTU-2
657 SF-1
658 RTU-1
659 RTU-2
660 SF-1
661 RTU-1
662 RTU-2
663 SF-1
664 RTU-1
665 RTU-2
666 SF-1
667 RTU-1
668 RTU-2
669 SF-1
670 RTU-1
671 RTU-2
672 SF-1
673 RTU-1
674 RTU-2
675 SF-1
676 RTU-1
677 RTU-2
678 SF-1
679 RTU-1
680 RTU-2
681 SF-1
682 RTU-1
683 RTU-2
684 SF-1
685 RTU-1
686 RTU-2
687 SF-1
688 RTU-1
689 RTU-2
690 SF-1
691 RTU-1
692 RTU-2
693 SF-1
694 RTU-1
695 RTU-2
696 SF-1
697 RTU-1
698 RTU-2
699 SF-1
700 RTU-1
701 RTU-2
702 SF-1
703 RTU-1
704 RTU-2
705 SF-1
706 RTU-1
707 RTU-2
708 SF-1
709 RTU-1
710 RTU-2
711 SF-1
712 RTU-1
713 RTU-2
714 SF-1
715 RTU-1
716 RTU-2
717 SF-1
718 RTU-1
719 RTU-2
720 SF-1
721 RTU-1
722 RTU-2
723 SF-1
724 RTU-1
725 RTU-2
726 SF-1
727 RTU-1
728 RTU-2
729 SF-1
730 RTU-1
731 RTU-2
732 SF-1
733 RTU-1
734 RTU-2
735 SF-1
736 RTU-1
737 RTU-2
738 SF-1
739 RTU-1
740 RTU-2
741 SF-1
742 RTU-1
743 RTU-2
744 SF-1
745 RTU-1
746 RTU-2
747 SF-1
748 RTU-1
749 RTU-2
750 SF-1
751 RTU-1
752 RTU-2
753 SF-1
754 RTU-1
755 RTU-2
756 SF-1
757 RTU-1
758 RTU-2
759 SF-1
760 RTU-1
761 RTU-2
762 SF-1
763 RTU-1
764 RTU-2
765 SF-1
766 RTU-1
767 RTU-2
768 SF-1
769 RTU-1
770 RTU-2
771 SF-1
772 RTU-1
773 RTU-2
774 SF-1
775 RTU-1
776 RTU-2
777 SF-1
778 RTU-1
779 RTU-2
780 SF-1
781 RTU-1
782 RTU-2
783 SF-1
784 RTU-1
785 RTU-2
786 SF-1
787 RTU-1
788 RTU-2
789 SF-1
790 RTU-1
791 RTU-2
792 SF-1
793 RTU-1
794 RTU-2
795 SF-1
796 RTU-1
797 RTU-2
798 SF-1
799 RTU-1
800 RTU-2
801 SF-1
802 RTU-1
803 RTU-2
804 SF-1
805 RTU-1
806 RTU-2
807 SF-1
808 RTU-1
809 RTU-2
810 SF-1
811 RTU-1
812 RTU-2
813 SF-1
814 RTU-1
815 RTU-2
816 SF-1
817 RTU-1
818 RTU-2
819 SF-1
820 RTU-1
821 RTU-2
822 SF-1
823 RTU-1
824 RTU-2
825 SF-1
826 RTU-1
827 RTU-2
828 SF-1
829 RTU-1
830 RTU-2
831 SF-1
832 RTU-1
833 RTU-2
834 SF-1
835 RTU-1
836 RTU-2
837 SF-1
838 RTU-1
839 RTU-2
840 SF-1
841 RTU-1
842 RTU-2
843 SF-1
844 RTU-1
845 RTU-2
846 SF-1
847 RTU-1
848 RTU-2
849 SF-1
850 RTU-1
851 RTU-2
852 SF-1
853 RTU-1
854 RTU-2
855 SF-1
856 RTU-1
857 RTU-2
858 SF-1
859 RTU-1
860 RTU-2
861 SF-1
862 RTU-1
863 RTU-2
864 SF-1
865 RTU-1
866 RTU-2
867 SF-1
868 RTU-1
869 RTU-2
870 SF-1
871 RTU-1
872 RTU-2
873 SF-1
874 RTU-1
875 RTU-2
876 SF-1
877 RTU-1
878 RTU-2
879 SF-1
880 RTU-1
881 RTU-2
882 SF-1
883 RTU-1
884 RTU-2
885 SF-1
886 RTU-1
887 RTU-2
888 SF-1
889 RTU-1
890 RTU-2
891 SF-1
892 RTU-1
893 RTU-2
894 SF-1
895 RTU-1
896 RTU-2
897 SF-1
898 RTU-1
899 RTU-2
900 SF-1
901 RTU-1
902 RTU-2
903 SF-1
904 RTU-1
905 RTU-2
906 SF-1
907 RTU-1
908 RTU-2
909 SF-1
910 RTU-1
911 RTU-2
912 SF-1
913 RTU-1
914 RTU-2
915 SF-1
916 RTU-1
917 RTU-2
918 SF-1
919 RTU-1
920 RTU-2
921 SF-1
922 RTU-1
923 RTU-2
924 SF-1
925 RTU-1
926 RTU-2
927 SF-1
928 RTU-1
929 RTU-2
930 SF-1
931 RTU-1
932 RTU-2
933 SF-1
934 RTU-1
935 RTU-2
936 SF-1
937 RTU-1
938 RTU-2
939 SF-1
940 RTU-1
941 RTU-2
942 SF-1
943 RTU-1
944 RTU-2
945 SF-1
946 RTU-1
947 RTU-2
948 SF-1
949 RTU-1
950 RTU-2
951 SF-1
952 RTU-1
953 RTU-2
954 SF-1
955 RTU-1
956 RTU-2
957 SF-1
958 RTU-1
959 RTU-2
960 SF-1
961 RTU-1
962 RTU-2
963 SF-1
964 RTU-1
965 RTU-2
966 SF-1
967 RTU-1
968 RTU-2
969 SF-1
970 RTU-1
971 RTU-2
972 SF-1
973 RTU-1
974 RTU-2
975 SF-1
976 RTU-1
977 RTU-2
978 SF-1
979 RTU-1
980 RTU-2
981 SF-1
982 RTU-1
983 RTU-2
984 SF-1
985 RTU-1
986 RTU-2
987 SF-1
988 RTU-1
989 RTU-2
990 SF-1
991 RTU-1
992 RTU-2
993 SF-1
994 RTU-1
995 RTU-2
996 SF-1
997 RTU-1
998 RTU-2
999 SF-1
1000 RTU-1
1001 RTU-2
1002 SF-1
1003 RTU-1
1004 RTU-2
1005 SF-1
1006 RTU-1
1007 RTU-2
1008 SF-1
1009 RTU-1
1010 RTU-2
1011 SF-1
1012 RTU-1
1013 RTU-2
1014 SF-1
1015 RTU-1
1016 RTU-2
1017 SF-1
1018 RTU-1
1019 RTU-2
1020 SF-1
1021 RTU-1
1022 RTU-2
1023 SF-1
1024 RTU-1
1025 RTU-2
1026 SF-1
1027 RTU-1
1028 RTU-2
1029 SF-1
1030 RTU-1
1031 RTU-2
1032 SF-1
1033 RTU-1
1034 RTU-2
1035 SF-1
1036 RTU-1
1037 RTU-2
1038 SF-1
1039 RTU-1
1040 RTU-2
1041 SF-1
1042 RTU-1
1043 RTU-2
1044 SF-1
1045 RTU-1
1046 RTU-2
1047 SF-1
1048 RTU-1
1049 RTU-2
1050 SF-1
1051 RTU-1
1052 RTU-2
1053 SF-1
1054 RTU-1
1055 RTU-2
1056 SF-1
1057 RTU-1
1058 RTU-2
1059 SF-1
1060 RTU-1
1061 RTU-2
1062 SF-1
1063 RTU-1
1064 RTU-2
1065 SF-1
1066 RTU-1
1067 RTU-2
1068 SF-1
1069 RTU-1
1070 RTU-2
1071 SF-1
1072 RTU-1
1073 RTU-2
1074 SF-1
1075 RTU-1
1076 RTU-2
1077 SF-1
1078 RTU-1
1079 RTU-2
1080 SF-1
1081 RTU-1
1082 RTU-2
1083 SF-1
1084 RTU-1
1085 RTU-2
1086 SF-1
1087 RTU-1
1088 RTU-2
1089 SF-1
1090 RTU-1
1091 RTU-2
1092 SF-1
1093 RTU-1
1094 RTU-2
1095 SF-1
1096 RTU-1
1097 RTU-2
1098 SF-1
1099 RTU-1
1100 RTU-2
1101 SF-1
1102 RTU-1
1103 RTU-2
1104 SF-1
1105 RTU-1
1106 RTU-2
1107 SF-1
1108 RTU-1
1109 RTU-2
1110 SF-1
1111 RTU-1
1112 RTU-2
1113 SF-1
1114 RTU-1
1115 RTU-2
1116 SF-1
1117 RTU-1
1118 RTU-2
1119 SF-1
1120 RTU-1
1121 RTU-2
1122 SF-1
1123 RTU-1
1124 RTU-2
1125 SF-1
1126 RTU-1
1127 RTU-2
1128 SF-1
1129 RTU-1
1130 RTU-2
1131 SF-1
1132 RTU-1
1133 RTU-2
1134 SF-1
1135 RTU-1
1136 RTU-2
1137 SF-1
1138 RTU-1
1139 RTU-2
1140 SF-1
1141 RTU-1
1142 RTU-2
1143 SF-1
1144 RTU-1
1145 RTU-2
1146 SF-1
1147 RTU-1
1148 RTU-2
1149 SF-1
1150 RTU-1
1151 RTU-2
1152 SF-1
1153 RTU-1
1154 RTU-2
1155 SF-1
1156 RTU-1
1157 RTU-2
1158 SF-1
1159 RTU-1
1160 RTU-2
1161 SF-1
1162 RTU-1
1163 RTU-2
1164 SF-1
1165 RTU-1
1166 RTU-2
1167 SF-1
1168 RTU-1
1169 RTU-2
1170 SF-1
1171 RTU-1
1172 RTU-2
1173 SF-1
1174 RTU-1
1175 RTU-2
1176 SF-1
1177 RTU-1
1178 RTU-2
1179 SF-1
1180 RTU-1
1181 RTU-2
1182 SF-1
1183 RTU-1
1184 RTU-2
1185 SF-1
1186 RTU-1
1187 RTU-2
1188 SF-1
1189 RTU-1
1190 RTU-2
1191 SF-1
1192 RTU-1
1193 RTU-2
1194 SF-1
1195 RTU-1
1196 RTU-2
1197 SF-1
1198 RTU-1
1199 RTU-2
1200 SF-1
1201 RTU-1
1202 RTU-2
1203 SF-1
1204 RTU-1
1205 RTU-2
1206 SF-1
1207 RTU-1
1208 RTU-2
1209 SF-1
1210 RTU-1
1211 RTU-2
1212 SF-1
1213 RTU-1
1214 RTU-2
1215 SF-1
1216 RTU-1
1217 RTU-2
1218 SF-1
1219 RTU-1
1220 RTU-2
1221 SF-1
1222 RTU-1
1223 RTU-2
1224 SF-1
1225 RTU-1
1226 RTU-2
1227 SF-1
1228 RTU-1
1229 RTU-2
1230 SF-1
1231 RTU-1
1232 RTU-2
1233 SF-1
1234 RTU-1
1235 RTU-2
1236 SF-1
1237 RTU-1
1238 RTU-2
1239 SF-1
1240 RTU-1
1241 RTU-2
1242 SF-1
1243 RTU-1
1244 RTU-2
1245 SF-1
1246 RTU-1
1247 RTU-2
1248 SF-1
1249 RTU-1
1250 RTU-2
1251 SF-1
1252 RTU-1
1253 RTU-2
1254 SF-1
1255 RTU-1
1256 RTU-2
1257 SF-1
1258 RTU-1
1259 RTU-2
1260 SF-1
1261 RTU-1
1262 RTU-2
1263 SF-1
1264 RTU-1
1265 RTU-2
1266 SF-1
1267 RTU-1
1268 RTU-2
1269 SF-1
1270 RTU-1
1271 RTU-2
1272 SF-1
1273 RTU-1
1274 RTU-2
1275 SF-1
1276 RTU-1
1277 RTU-2
1278 SF-1
1279 RTU-1
1280 RTU-2
1281 SF-1
1282 RTU-1
1283 RTU-2
1284 SF-1
1285 RTU-1
1286 RTU-2
1287 SF-1
1288 RTU-1
1289 RTU-2
1290 SF-1
1291 RTU-1
1292 RTU-2
1293 SF-1
1294 RTU-1
1295 RTU-2
1296 SF-1
1297 RTU-1
1298 RTU-2
1299 SF-1
1300 RTU-1
1301 RTU-2
1302 SF-

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
P																	P
O																	O
N																	N
M																	M
L																	L
K																	K
J																	J
H																	H
G																	G
F																	F
E																	E
D																	D
C																	C
B																	B
A																	A

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION
NREC-MCH-4
Project Name: The Mel - Davis CA
Report Page: (Page 10 of 13)
Date Prepared: 2025-01-16T15:30:49-05:00

L. DISTRIBUTION (DUCTWORK AND PIPING)			
		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.	
14	No	The gombized surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously isolated as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Exposed Ductwork located in occupied space	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18	No	All ductwork is an extension of an existing duct system	
19	No	Ductwork serving individual dwelling unit	
20	No	< 25 ft of new or replacement space conditioning ducts installed	
21	R-6	Duct Insulation R-value	
22	No	Ductwork Existing To Remain	
23	No	Duct System Connected To Altered Space Conditioning System	

M. COOLING TOWERS
This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 212167-0125-0008
Schema Version: rev 20220101 Report Generated: 2025-01-16 12:30:56

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION
NREC-MCH-4
Project Name: The Mel - Davis CA
Report Page: (Page 11 of 13)
Date Prepared: 2025-01-16T15:30:49-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Matt Ragheb
Signature Date: 06/02/2024
Address: 11880 College Blvd, Ste 475
City/State/Zip: Overland Park, KS 66209
RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: Charles Freeman
Signature Date: 06/02/2024
Address: 11880 College Blvd, Ste 475
City/State/Zip: Overland Park, KS 66209

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 212167-0125-0008
Schema Version: rev 20220101 Report Generated: 2025-01-16 12:30:56

Space Conditioning Mandatory Measures:
120.2(a)2 AUTOMATIC RESTART FOR SPACE-CONDITIONING SYSTEMS
EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT SHALL AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN:
• 120.2(a)2A A SETBACK HEATING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL HEATING, AND
• 120.2(a)2B A SETUP COOLING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL COOLING.
120.2(f) DAMPERS FOR AIR SUPPLY AND EXHAUST EQUIPMENT
OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON FAN SHUTDOWN.
120.2(h) AUTOMATIC DEMAND SHED CONTROLS
SHALL MEET REQUIREMENTS IN 110.12
110.12(a) DEMAND RESPONSIVE (DR) CONTROL REQUIREMENTS:
1. EITHER CERTIFIED OPERANDR 2.0a, OPERANDR 2.0b VIRTUAL END NODE (VEN), OR CERTIFIED BY THE MANUFACTURER AS BEING CAPABLE OF RESPONDING TO A DR SIGNAL FROM A CERTIFIED OPERANDR 2.0b VIRTUAL END NODE BY AUTOMATICALLY IMPLEMENTING THE CONTROL FUNCTIONS REQUESTED BY THE VIRTUAL END NODE FOR THE EQUIPMENT IT CONTROLS.
2. CAPABLE OF COMMUNICATING USING WI-FI, ZIGBEE, BACNET, ETHERNET, AND/OR HARD-WIRING.
3. MAY INCORPORATE AND USE ADDITIONAL PROTOCOLS BEYOND THOSE SPECIFIED IN 110.12(a)1 AND 2.
4. SHALL CONTINUE TO PERFORM ALL OTHER CONTROL FUNCTIONS PROVIDED BY THE CONTROL WHEN COMMUNICATIONS ARE DISABLED.
5. THERMOSTATS SHALL COMPLY WITH REFERENCE JOINT APPENDIX 5 (JAS)
110.12(b) NONRESIDENTIAL HVAC SYSTEMS WITH DDC TO THE ZONE LEVEL SHALL BE PROGRAMMED TO ALLOW CENTRALIZED DEMAND SHED FOR NON-CRITICAL ZONES. CONTROLS SHALL BE CAPABLE OF:
1. REMOTELY INCREASING THE OPERATING COOLING TEMPERATURE SETPOINTS BY 4 DEGREES OR MORE IN ALL NON-CRITICAL ZONES ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS
2. REMOTELY DECREASING THE OPERATING HEATING TEMPERATURE SETPOINTS BY 4 DEGREES OR MORE IN ALL NON-CRITICAL ZONES ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS
3. REMOTELY RESETTING THE TEMPERATURES IN ALL NON-CRITICAL ZONES TO ORIGINAL OPERATING LEVELS ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS
4. PROVIDING AN ADJUSTABLE RATE OF CHANGE FOR THE TEMPERATURE INCREASE, DECREASE, AND RESET
5. THE FOLLOWING FEATURES:
A. DISABLED BY AUTHORIZED FACILITY OPERATORS
B. MANUAL CONTROL BY AUTHORIZED FACILITY OPERATORS
C. UPON RECEIPT OF A DR SIGNAL, SPACE-CONDITIONING SYSTEMS SHALL CONDUCT A CENTRALIZED DEMAND SHED, AS SPECIFIED IN 110.12(b)1 AND 110.12(b)2, FOR NON-CRITICAL ZONES DURING THE DR PERIOD

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION
NREC-MCH-4
Project Name: The Mel - Davis CA
Report Page: (Page 12 of 13)
Date Prepared: 2025-01-16T15:30:49-05:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4
Form/Title
NREC-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4
Form/Title Systems/Spaces To Be Field Verified
NREC-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.
NREC-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".
NREC-MCH-05-A - Air Economizer Controls
NREC-MCH-13-A Automatic FFD for Air Handling Units and Zone Terminal Units Acceptance
NREC-MCH-18-A Energy Management Control Systems
RTU-1; SF-1
RTU-1; RTU-2
RTU-1
SF-1

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 212167-0125-0008
Schema Version: rev 20220101 Report Generated: 2025-01-16 12:30:56

Space Conditioning Mandatory Measures:
110.2 CERTIFICATION BY MANUFACTURERS
ANY SPACE-CONDITIONING EQUIPMENT LISTED IN §110.2 SHALL ONLY BE INSTALLED IF CERTIFIED TO THE ENERGY COMMISSION TO MEET ALL APPLICABLE §110.2 REQUIREMENTS.
110.2(a) SPACE-CONDITIONING EQUIPMENT EFFICIENCY
EQUIPMENT SHALL MEET APPLICABLE EFFICIENCY REQUIREMENTS IN TABLE 110.2-A THROUGH TABLE 110.2-N.
110.2(b) HEAT PUMPS WITH SUPPLEMENTARY ELECTRIC RESISTANCE HEAT
HEAT PUMPS WITH SUPPLEMENTARY ELECTRIC RESISTANCE HEATERS SHALL HAVE CONTROLS THAT PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. CUT-OFF TEMPERATURE FOR COMPRESSION HEATING SHALL BE HIGHER THAN THAT FOR SUPPLEMENTARY HEATING. CUT-OFF TEMPERATURE FOR COMPRESSION HEATING SHALL BE HIGHER THAN THAT FOR SUPPLEMENTARY HEATING.
110.2(c) SETBACK THERMOSTATS
ALL HEATING OR COOLING SYSTEMS NOT CONTROLLED BY A CENTRAL ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) SHALL HAVE A SETBACK THERMOSTAT WITH CLOCK MECHANISM THAT ALLOWS THE BUILDING OCCUPANT TO PROGRAM THE TEMPERATURE SETPOINTS FOR AT LEAST FOUR PERIODS WITHIN 24 HOURS.
110.5 PILOT LIGHTS PROHIBITED FOR NATURAL GAS EQUIPMENT
PILOT LIGHTS ARE PROHIBITED ON NATURAL GAS FAN-TYPE CENTRAL FURNACES, POOL HEATERS, SPA HEATERS, AND FIREPLACES.
110.6(a) INSULATION CERTIFICATION
INSTALLED INSULATION SHALL BE CERTIFIED BY THE DEPARTMENT OF CONSUMER AFFAIRS PER TITLE 24, PART 12, CHAPTERS 12-13, ARTICLE 3 "STANDARDS FOR INSULATING MATERIALS."
110.6(b) UREA FORMALDEHYDE INSULATION
UREA FORMALDEHYDE INSULATION SHALL NOT BE INSTALLED UNLESS IN EXTERIOR SIDE WALLS WITH A FOUR-MIL-THICK PLASTIC POLYETHYLENE VAPOR RETARDER OR EQUIVALENT PLASTIC SHEATHING VAPOR RETARDER COMPLIANCE WITH THE UREA FORMALDEHYDE FOAM INSULATION AND THE INTERIOR SPACE.
110.6(c) INSULATING MATERIAL
ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE.
110.8(a) DUCTS
IF INSULATION IS INSTALLED ON AN EXISTING SPACE-CONDITIONING DUCT, IT SHALL COMPLY WITH SECTION 604.0 OF THE CMC.
120.1(a) GENERAL VENTILATION AND INDOOR AIR QUALITY REQUIREMENTS
ALL OCCUPABLE SPACES IN HOTELS/MOTEL AND NONRESIDENTIAL BUILDINGS OTHER THAN HEALTHCARE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF §120.1(a) THROUGH (g). THE REQUIRED OUTDOOR AIR VENTILATION RATE AND AIR-DISTRIBUTION SYSTEM DESIGN SHALL BE CLEARLY IDENTIFIED ON THE PLANS.
120.1(c)2 NATURAL VENTILATION
NATURALLY VENTILATED SPACES SHALL BE DESIGNED IN ACCORDANCE WITH 120.1(c)2A THROUGH 120.1(c)2C AND INCLUDE A MECHANICAL VENTILATION SYSTEMS DESIGNED IN ACCORDANCE WITH 120.1(c)3.
120.1(c)3 MECHANICAL VENTILATION
OCCUPABLE SPACES SHALL BE VENTILATED WITH A MECHANICAL VENTILATION SYSTEM CAPABLE OF PROVIDING AN OUTDOOR AIRFLOW RATE (Vz) TO THE ZONE NO LESS THAN EQUATION 120.1-F.

Space Conditioning Mandatory Measures:
120.2(i) DIRECT DIGITAL CONTROLS (DDC)
DDC TO THE ZONE SHALL BE PROVIDED AS SPECIFIED BY TABLE 120.2-A. THE DDC SYSTEM SHALL MEET CONTROL LOGIC REQUIREMENTS OF 120.1(d), 110.12(a) AND 110.12(b). AND BE CAPABLE OF ALL OF THE FOLLOWING:
1. MONITORING ZONE AND SYSTEM DEMAND FOR FAN PRESSURE, PUMP PRESSURE, HEATING AND COOLING
2. TRANSFERRING ZONE AND SYSTEM DEMAND INFORMATION FROM ZONES TO AIR DISTRIBUTION SYSTEM CONTROLLERS AND FROM AIR DISTRIBUTION SYSTEMS TO HEATING AND COOLING PLANT CONTROLLERS
3. AUTOMATICALLY DETECTING THE ZONES AND SYSTEMS THAT MAY BE EXCESSIVELY DRIVING THE RESET LOGIC AND GENERATE AN ALARM OR OTHER INDICATION TO THE SYSTEM OPERATOR
4. READILY ALLOW OPERATOR REMOVAL OF ZONE(S) FROM THE RESET ALGORITHM
5. FOR NEW BUILDINGS, TRENDSING AND GRAPHICALLY DISPLAYING INPUT AND OUTPUT POINTS
6. RESETTING HEATING AND COOLING SETPOINTS IN ALL NON-CRITICAL ZONES UPON RECEIPT OF A SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT AS DESCRIBED IN 110.12(b).
120.2(j) OPTIMUM START/STOP CONTROLS
SPACE-CONDITIONING SYSTEMS WITH DDC TO THE ZONE SHALL HAVE OPTIMUM START/STOP CONTROLS. CONTROL ALGORITHM SHALL, AS A MINIMUM, BE A FUNCTION OF THE DIFFERENCE BETWEEN SPACE TEMPERATURE AND OCCUPIED SETPOINT, OUTDOOR AIR TEMP, AND AMOUNT OF TIME PRIOR TO SCHEDULED OCCUPANCY.
MASS RADIANT FLOOR SLAB SYSTEMS SHALL INCORPORATE FLOOR TEMPERATURE ONTO THE OPTIMUM START ALGORITHM.
120.4 AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS
PORTIONS OF SUPPLY AND RETURN AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8:
• OUTDOORS
• IN A SPACE BETWEEN THE ROOF AND AN INSULATING CEILING
• IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES
• UNCONDITIONED SPACES, SUCH AS UNCONDITIONED CRAWLSPACE
PORTIONS OF SUPPLY-AIR DUCTS THAT ARE NOT IN ONE OF THESE SPACES, INCLUDING DUCTS BURIED IN CONCRETE SLAB, SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 (OR ANY HIGHER LEVEL REQUIRED BY CMC 605.0), OR BE ENCLOSED IN DIRECTLY CONDITIONED SPACE.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION
NREC-MCH-4
Project Name: The Mel - Davis CA
Report Page: (Page 13 of 13)
Date Prepared: 2025-01-16T15:30:49-05:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.
01 02
Compliance with Mandatory Measures documented through MCH Yes Plan sheet or construction document location
Mandatory Measures Note Block M4.0

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 212167-0125-0008
Schema Version: rev 20220101 Report Generated: 2025-01-16 12:30:56

Space Conditioning Mandatory Measures:
120.1(a) TIMES OF OCCUPANCY
MINIMUM OUTDOOR AIR RATE SHALL BE MET AT TIMES WHEN THE SPACE IS USUALLY OCCUPIED IN ACCORDANCE WITH 120.1(c).
120.1(d) PRE-OCCUPANCY
THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SECTION 120.1(c) OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE 1-HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED.
120.1(d)3 REQUIRED DEMAND CONTROL VENTILATION
DCV CONTROLS ARE REQUIRED FOR A SPACE WITH A DESIGN OCCUPANCY DENSITY ≥ 25 PEOPLE/1,000 FT² IF THE SYSTEM SERVING THE SPACE HAS ONE OR MORE OF THE FOLLOWING:
• AN AIR ECONOMIZER
• MODULATING OUTSIDE AIR CONTROL
• DESIGN OUTDOOR AIRFLOW RATE ≥ 3,000 CFM
120.1(f) DESIGN AND CONTROL REQUIREMENTS FOR QUANTITIES OF OUTDOOR AIR
120.1(f)1 ALL MECHANICAL VENTILATION AND SPACE-CONDITIONING SYSTEMS SHALL BE DESIGNED WITH AND HAVE INSTALLED DUCTWORK, DAMPERS, AND CONTROLS TO ALLOW OA RATES TO BE OPERATED AT NO LESS THAN THE LARGER OF: 120.1(c)3 MINIMUMS OR THE RATE REQUIRED FOR MAKE-UP OF EXHAUST SYSTEMS FOR AN EXEMPT OR COVERED PROCESS, CONTROL OF ODORS, OR CONTAMINANT REMOVAL IN A SPACE.
120.1(f)2 MEASURED OA RATES OF CONSTANT VOLUME SYSTEMS SHALL BE TESTED TO CONFIRM THEIR ABILITY TO OPERATE WITHIN 10% OF THE DESIGN MINIMUM OUTSIDE AIR RATE.
120.1(g) AIR CLASSIFICATION AND RECIRCULATION LIMITATIONS
AIR CLASSIFICATION AND RECIRCULATION LIMITATIONS OF AIR SHALL BE BASED ON TABLE 120.1-A OR TABLE 120.1-C, AND IN ACCORDANCE WITH 120.1(g)1 THROUGH 4.
120.2(a) THERMOSTAT CONTROLS
HEATING AND COOLING SUPPLY TO EACH SPACE-CONDITIONING ZONE OR DWELLING UNIT SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE IN THE ZONE AND MEETS 120.2(b) REQUIREMENTS.
120.2(b) ZONAL THERMOSTAT CONTROLS
120.2(b)4 THERMOSTATIC CONTROLS FOR ALL SINGLE ZONE AIR CONDITIONERS AND HEAT PUMPS SHALL COMPLY WITH THE REQUIREMENTS OF 120.2(c) AND 110.12(a) AND, IF EQUIPPED WITH DDC TO THE ZONE LEVEL WITH THE AUTOMATIC DEMAND SHED CONTROLS OF 120.12(b).
120.2(d) HEAT PUMP CONTROLS
ALL HEAT PUMPS WITH SUPPLEMENTAL ELECTRIC RESISTANCE HEATERS SHALL BE INSTALLED WITH CONTROLS THAT MEET 120.2(b) REQUIREMENTS.
120.2(e)1 AUTOMATIC SHUT-OFF FOR SPACE-CONDITIONING SYSTEMS
EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH ONE OF THE FOLLOWING CONTROLS CAPABLE OF AUTOMATICALLY SHUTTING OFF THE SYSTEM DURING PERIODS OF NONUSE:
• AUTOMATIC TIME SWITCH CONTROL PER 110.9, WITH ACCESSIBLE MANUAL OVERRIDE ALLOWING SYSTEM OPERATION FOR UP TO 4 HOURS, OR
• AN OCCUPANCY SENSOR, OR
• A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED.

Space Conditioning Mandatory Measures:
120.4(b) DUCT AND PLENUM MATERIALS
120.4(b)1 FACTORY-FABRICATED DUCT SYSTEMS MUST:
• COMPLY WITH UL 181 FOR DUCTS AND CLOSURE SYSTEMS AND BE LABELED AS COMPLYING WITH UL 181
• ALL PRESSURE SENSITIVE TAPES, HEAT ACTIVATED TAPES, AND MASTICS USED IN MANUFACTURE OF RIGID FIBERGLASS DUCTS SHALL COMPLY WITH UL 181 AND L 181B
• JOINTS AND SEAMS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS COMBINED WITH MASTICS AND DRAWBANDS.
FIELD-FABRICATED DUCT SYSTEMS:
• FACTORY-MADE RIGID FIBERGLASS AND FLEXIBLE DUCTS FOR FIELD-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181. ALL CLOSURE SYSTEMS, INCLUDING PRESSURE SENSITIVE TAPES, MASTICS, AND AEROSOL SEALANTS, SHALL MEET THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A AND UL 181B.
• MASTIC SEALANTS SHALL:
• COMPLY WITH APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B AND BE NONTOXIC AND WATER RESISTANT.
• PASS ASTM C731 AND D2202, IF USED IN BUILDING INTERIOR,
• PASS ASTM C731, C732, AND D2202, IF USED ON EXTERIOR.
• AUTOMATICS AND MASTICS SHALL BE RATED FOR EXTERIOR USE.
• PRESSURE SENSITIVE TAPES SHALL COMPLY WITH APPLICABLE REQUIREMENTS IN UL 181, UL 181A, AND UL 181B.
• JOINTS AND SEAMS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS COMBINED WITH MASTICS AND DRAWBANDS.
• DRAWBANDS USED WITH FLEXIBLE DUCTS SHALL:
• BE EITHER STAINLESS STEEL, WORM-DRIVE HOSE CLAMPS OR UV-RESISTANT NYLON DUCT TIES
• HAVE A MINIMUM TENSILE STRENGTH RATING OF 150 LBS.
• BE TIGHTENED AS RECOMMENDED BY THE MANUFACTURER
• AEROSOL SEALANT CLOSURES SHALL:
• MEET REQUIREMENTS OF UL 723 AND BE APPLIED ACCORDING TO MANUFACTURER SPECIFICATIONS
• TAPES OR MASTICS USED IN COMBINATION WITH AEROSOL SEALING SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B, ASTM C731, C732 AND D2202.
120.4(c) ALL DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY AND TESTED IN ACCORDANCE WITH ASTM C518 OR ASTM C177 AND CERTIFIED PER §110.8.
120.4(d) INSTALLED THICKNESS OF DUCT INSULATION USED TO DETERMINE ITS R-VALUE SHALL BE DETERMINED AS FOLLOWS:
• DUCT BOARD, LINER, AND FACTORY-MADE RIGIDS: USE NOMINAL INSULATION THICKNESS
• DUCT WRAP: USE 75% (25% COMPRESSION) OF NOMINAL THICKNESS
• FACTORY-MADE FLEXIBLE AIR DUCTS: DIVIDE THE DIFFERENCE BETWEEN THE ACTUAL OUTSIDE DIAMETER AND NOMINAL INSIDE DIAMETER BY TWO.
120.4(e) INSULATED FLEXIBLE DUCT PRODUCTS INSTALLED TO MEET THIS REQUIREMENT MUST INCLUDE LABELS (MAX INTERVALS OF 3 FT) SHOWING THERMAL RESISTANCE PERFORMANCE R-VALUE FOR THE DUCT INSULATION ITSELF BASED ON TESTS IN 120.4(c). AND INSTALLED THICKNESS DETERMINED BY 120.4(d)3.

Space Conditioning Mandatory Measures:
120.4(f) PROTECTION OF INSULATION
INSULATION SHALL BE PROTECTED FROM DAMAGE BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND. CELLULAR FOAM INSULATION SHALL BE PROTECTED, OR BE PAINTED WITH A WATER RETARDANT COATING THAT PROVIDES SHIELDING FROM SOLAR RADIATION.



SIGNATURE DATE: 01/16/2024

Mech. Engineer of Record
Charles C. Freeman, P.E.
11880 COLLEGE BLVD, STE 475
OVERLAND PARK, KS 66209
P 913.522.5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616



REV	DATE	DESCRIPTION
1	1/16/25	CITY COMMENTS

ORIGINAL ISSUE DATE: 12.04.2024

SHEET TITLE:

MECHANICAL
TITLE 24

SHEET NUMBER:

M4.1

REVISIONS	
NO.	DESCRIPTION
1	
2	
3	
4	
5	



DRAWN BY Danny Ng

3/4" = 1' - 0"



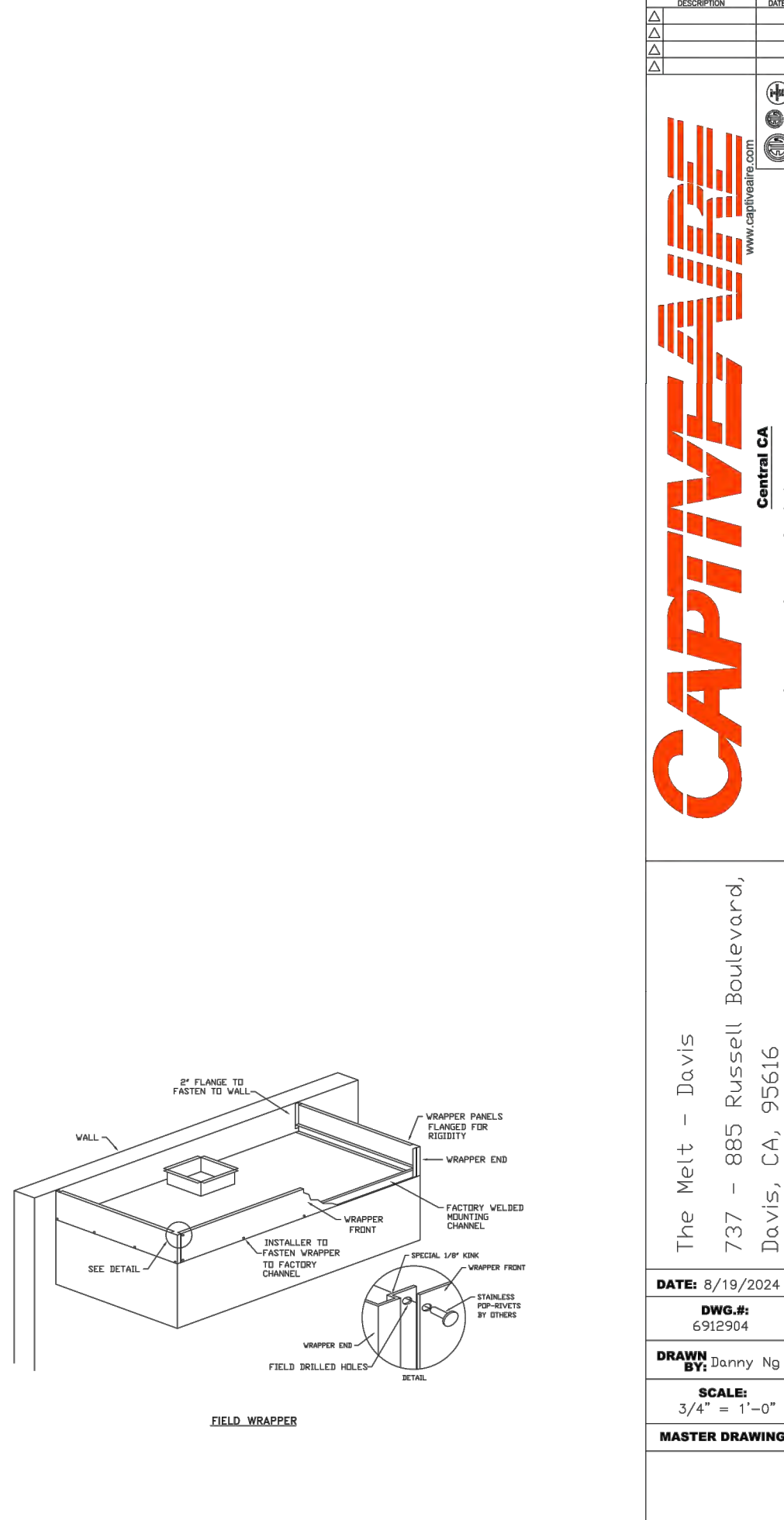
SCALE

3/4" = 1' - 0"

MASTER DRAWING

SHEET NO.

3



		REVISIONS	
DATE	BY	DESCRIPTION	APP.

Diagram illustrating the components and connections of the Fire Alarm Control Panel (FACP):

- REMOTE MANUAL PULL STATION
- REMOVABLE STAINLESS STEEL SERVICE DOOR
- AGENT TANK
- GEN. BELLAGE / BRACKET ASSEMBLY
- DETECTORS
- DUCT PROTECTION NOZZLE
- PLENUM PROTECTION NOZZLE
- APPLIANCE PROTECTION NOZZLE
- FAN AND LIGHT CONTROL PANEL
- OPTIONAL PRE-WIRED ELECTRICAL TERMINAL BOX WITH TERMINAL STRIPS, 2-PHASE CONTACTS AND OVERLOADS (IF APPLICABLE)



SHEET NUMBER:

M5.0

P

O

N

M

L

K

J

H

G

F

E

D

C

B

A

EXHAUST FAN INFORMATION - JOB#6912904													
FAN UNIT NO.	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR INCH	HP	BHP	PHASE	VOLT	FLA
1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1

MUA FAN INFORMATION - JOB#6912904													
FAN UNIT NO.	TAG	QTY	FAN UNIT MODEL #	BLUVER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR INCH	HP	BHP	PHASE
1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1

GAS FIRED MAKE-UP AIR UNIT(S)								
FAN UNIT NO	TAG	INPUT BTUS	OUTPUT BTUS	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)	
3		108976	109366	41°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92	

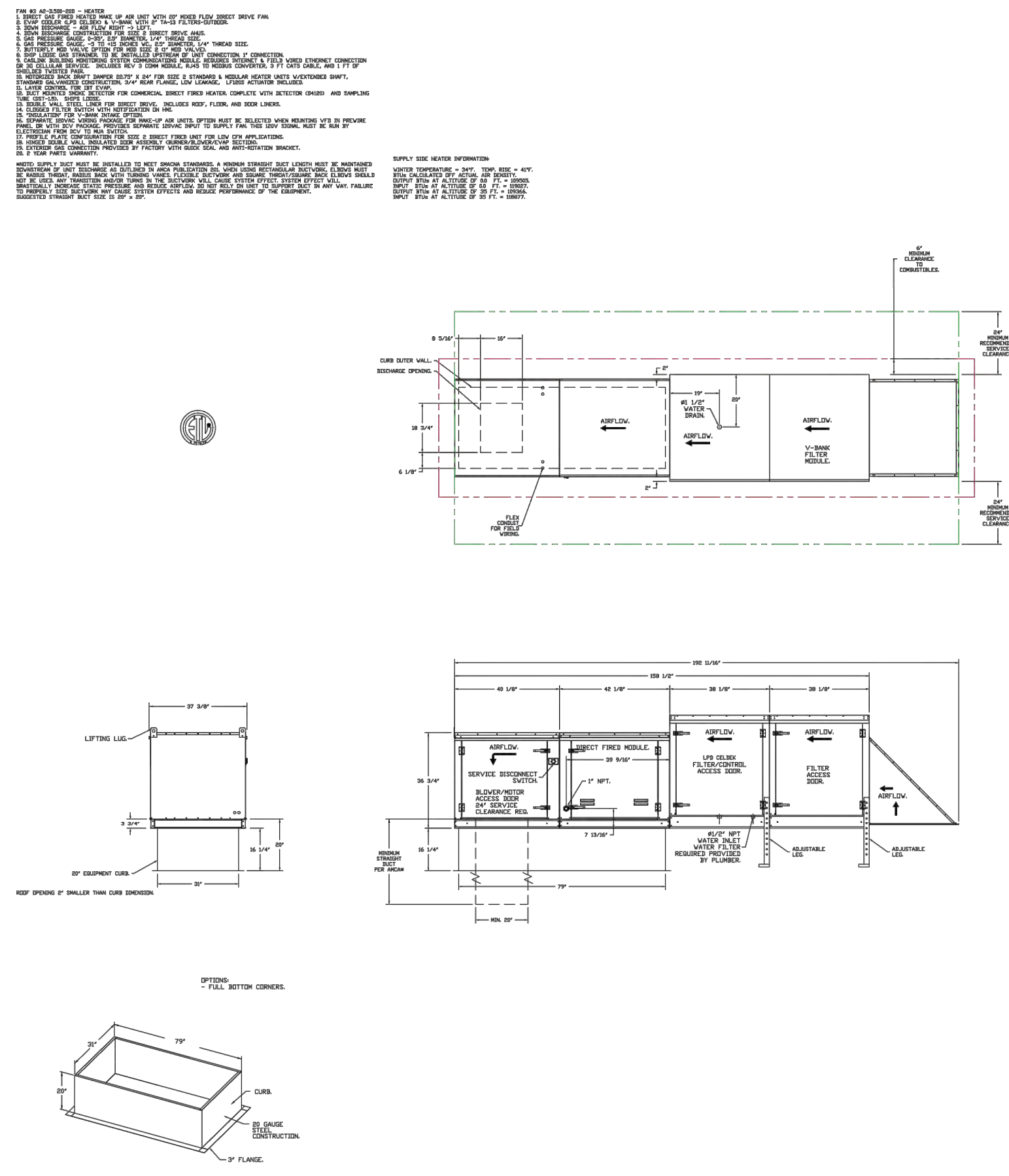
OPTIONS		DESCRIPTION
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	1
13	1	1
14	1	1
15	1	1
16	1	1
17	1	1
18	1	1
19	1	1
20	1	1
21	1	1
22	1	1
23	1	1
24	1	1
25	1	1
26	1	1
27	1	1
28	1	1
29	1	1
30	1	1
31	1	1
32	1	1
33	1	1
34	1	1
35	1	1
36	1	1
37	1	1
38	1	1
39	1	1
40	1	1
41	1	1
42	1	1
43	1	1
44	1	1
45	1	1
46	1	1
47	1	1
48	1	1
49	1	1
50	1	1
51	1	1
52	1	1
53	1	1
54	1	1
55	1	1
56	1	1
57	1	1
58	1	1
59	1	1
60	1	1
61	1	1
62	1	1
63	1	1
64	1	1
65	1	1
66	1	1
67	1	1
68	1	1
69	1	1
70	1	1
71	1	1
72	1	1
73	1	1
74	1	1
75	1	1
76	1	1
77	1	1
78	1	1
79	1	1
80	1	1
81	1	1
82	1	1
83	1	1
84	1	1
85	1	1
86	1	1
87	1	1
88	1	1
89	1	1
90	1	1
91	1	1
92	1	1
93	1	1
94	1	1
95	1	1
96	1	1
97	1	1
98	1	1
99	1	1
100	1	1

FAN ACCESSORIES		EXHAUST	SUPPLY
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
13	1	1	1
14	1	1	1
15	1	1	1
16	1	1	1
17	1	1	1
18	1	1	1
19	1	1	1
20	1	1	1
21	1	1	1
22	1	1	1
23	1	1	1
24	1	1	1
25	1	1	1
26	1	1	1
27	1	1	1
28	1	1	1
29	1	1	1
30	1	1	1
31	1	1	1
32	1	1	1
33	1	1	1
34	1	1	1
35	1	1	1
36	1	1	1
37	1	1	1
38	1	1	1
39	1	1	1
40	1	1	1
41	1	1	1
42	1	1	1
43	1	1	1
44	1	1	1
45	1	1	1
46	1	1	1
47	1	1	1
48	1	1	1
49	1	1	1
50	1	1	1
51	1	1	1
52	1	1	1
53	1	1	1
54	1	1	1
55	1	1	1
56	1	1	1
57	1	1	1
58	1	1	1
59	1	1	1
60	1	1	1
61	1	1	1
62	1	1	1
63	1	1	1
64	1	1	1
65	1	1	1
66	1	1	1
67	1	1	1
68	1	1	1
69	1	1	1
70	1	1	1
71	1	1	1
72	1	1	1
73	1	1	1
74	1	1	1
75	1	1	1
76	1	1	1
77	1	1	1
78	1	1	1
79	1	1	1
80	1	1	1
81	1	1	1
82	1	1	1
83	1	1	1
84	1	1	1
85	1	1	1
86	1	1	1
87	1	1	1
88	1	1	1
89	1	1	1
90	1	1	1
91	1	1	1
92	1	1	1
93	1	1	1
94	1	1	1
95	1	1	1
96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

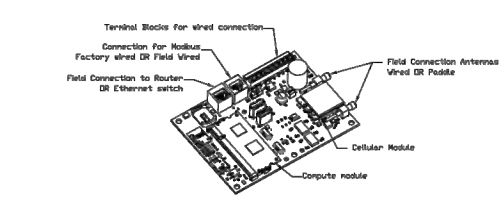
CURB ASSEMBLIES		DN	WT	ITEM	SIZE
1	1	1	1	1	1
2	1	1	1	1	1
3	1	1	1	1	1
4	1	1	1	1	1
5	1	1	1	1	1
6	1	1	1	1	1
7	1	1	1	1	1
8	1	1	1	1	1
9	1	1	1	1	1
10	1	1	1	1	1
11	1	1	1	1	1
12	1	1	1	1	1
13	1	1	1	1	1
14	1	1	1	1	1
15	1	1	1	1	1
16	1	1	1	1	1
17	1	1	1	1	1
18	1	1	1	1	1
19	1	1	1	1	1
20	1	1	1	1	1
21	1	1	1	1	1
22	1	1	1	1	1
23	1	1	1	1	1
24	1	1	1	1	1
25	1	1	1	1	1
26	1	1	1	1	1
27	1	1	1	1	1
28	1	1	1	1	1
29	1	1	1	1	1
30	1	1	1	1	1
31	1	1	1	1	1
32	1	1	1	1	1
33	1	1	1	1	1
34	1	1	1	1	1
35	1	1	1	1	1
36	1	1	1	1	1
37	1	1	1	1	1
38	1	1	1	1	1
39	1	1	1	1	1
40	1	1	1	1	1
41	1	1	1	1	1
42	1	1	1	1	1
43	1	1	1	1	1
44	1	1	1	1	1
45	1	1	1	1	1
46	1	1	1	1	1
47	1	1	1	1	1
48	1	1	1	1	1
49	1	1	1	1	1
50	1	1	1	1	1
51	1	1	1	1	1
52	1	1	1	1	1
53	1	1	1	1	1
54	1	1	1	1	1
55	1	1	1	1	1
56	1	1	1	1	1
57	1	1	1	1	1
58	1	1	1	1	1
59	1	1	1	1	1
60	1	1	1	1	1
61	1	1	1	1	1
62	1	1	1	1	1
63	1	1	1	1	1
64	1	1	1	1	1
65	1	1	1	1	1
66	1	1	1	1	1
67	1	1	1	1	1
68	1	1	1	1	1
69	1	1	1	1	1
70	1	1	1	1	1
71	1	1	1	1	1
72	1	1	1	1	1
73	1	1	1	1	1
74	1	1	1	1	1
75	1	1	1	1	1
76	1	1	1	1	1
77	1	1	1	1	1
78	1	1	1	1	1
79	1	1	1	1	1
80	1	1	1	1	1
81	1	1	1	1	1
82	1	1	1	1	1
83	1	1	1	1	1
84	1	1	1	1	1
85	1	1	1	1	1
86	1	1	1	1	1
87	1	1	1	1	1
88	1	1	1	1	1
89	1	1	1	1	1
90	1	1	1	1	1
91	1	1	1	1	1
92	1	1	1	1	1
93	1	1	1	1	1
94	1	1	1	1	1
95	1	1	1	1	1
96	1	1	1	1	1
97	1	1	1	1	1
98	1	1	1	1	1
99	1	1	1	1	1
100	1	1	1	1	1

FAN SOUND DATA																
FAN UNIT NO.	TAG	MOTOR	SOUND DATA					OCTAVE BAND SOUND DATA								
			LWA	SWNE	8 5 FT	DBA	8 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ
1			72.8	110.6	77.0	66.64	61.3	5	73	81.7	76.2	67.7	65.4	63.4	57.3	51.1
2		EXHAUST	60	414.4	47.0	39.99	48.3	5	61.1	66.8	59.5	56.8	55.1	51.3	43.2	38.9
3		SUPPLY	71.1	8.94	74.65	47.247	59.6	5	68.2	75.9	70.8	66.5	65.5	62.5	59.5	55.5

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #3	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

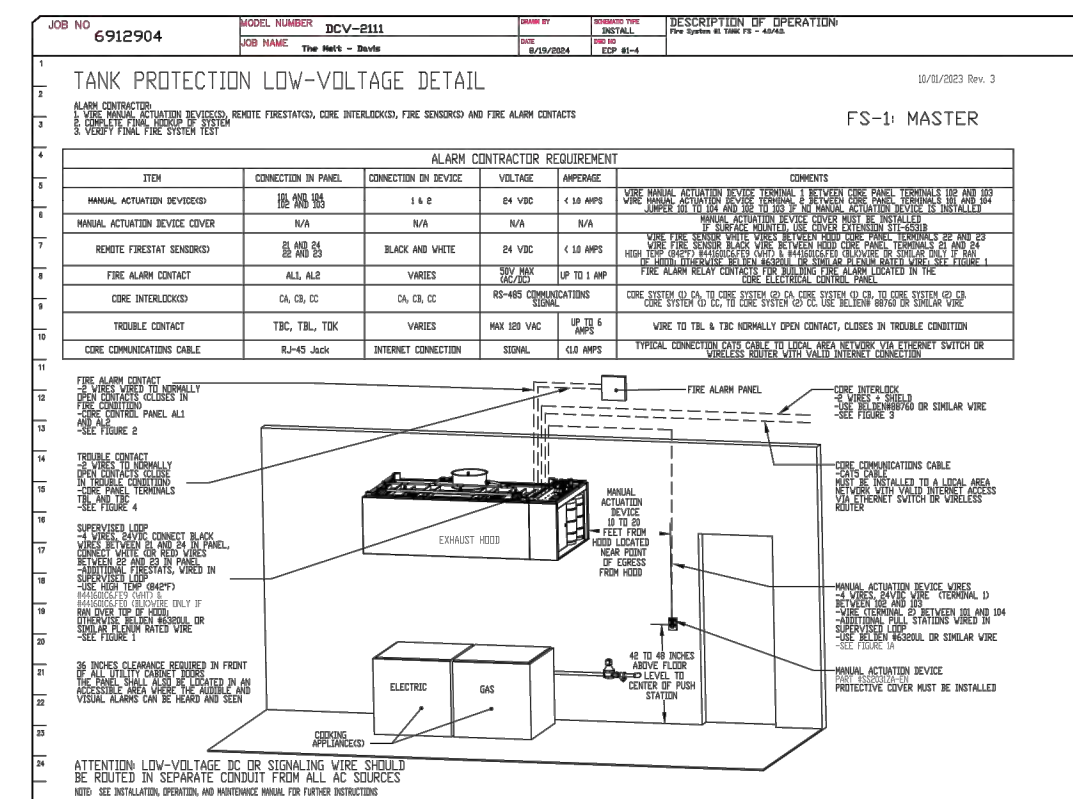
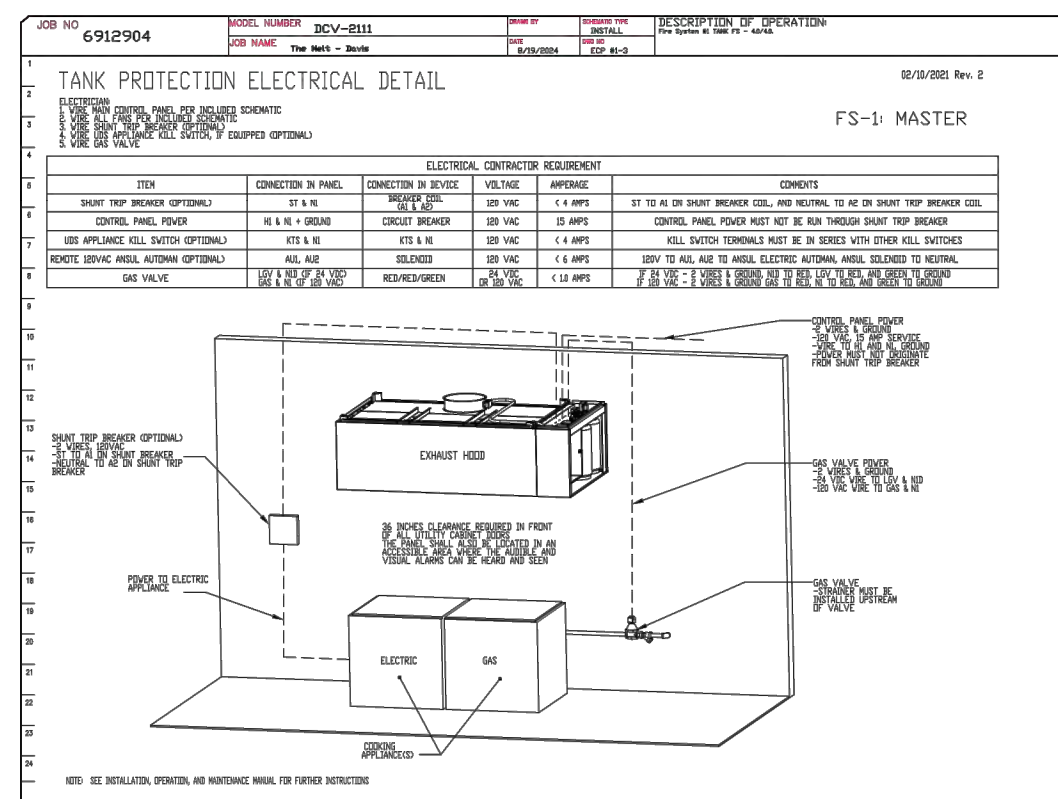
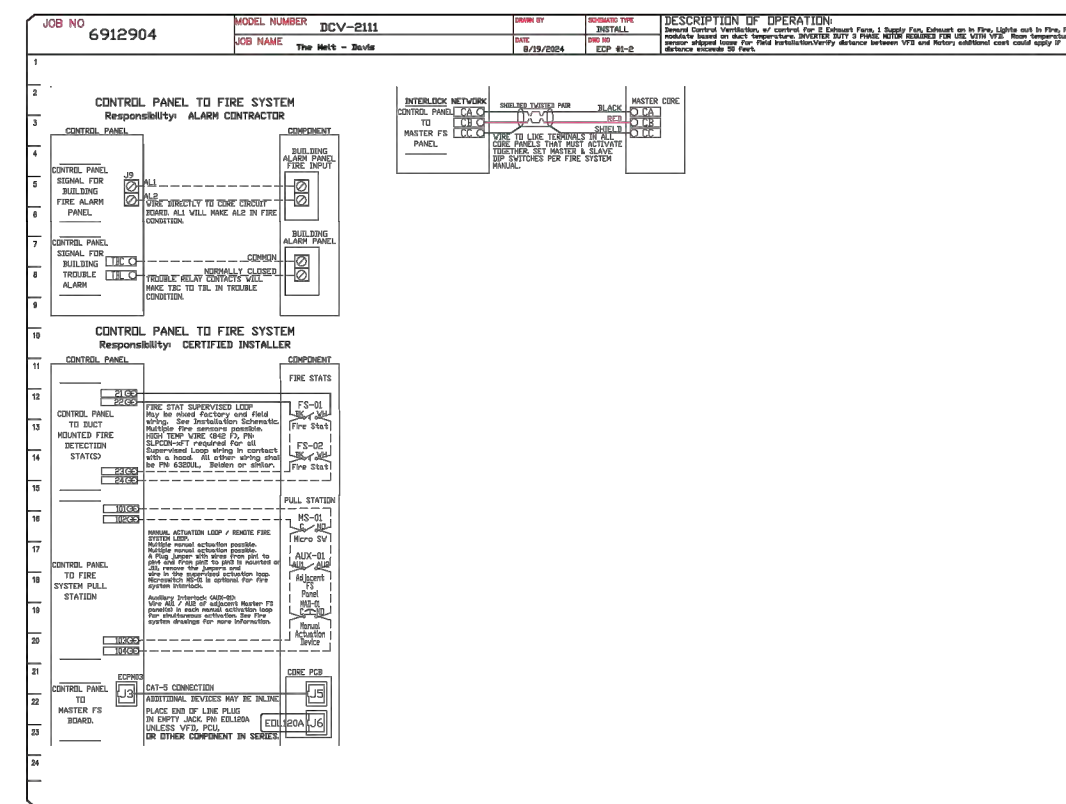
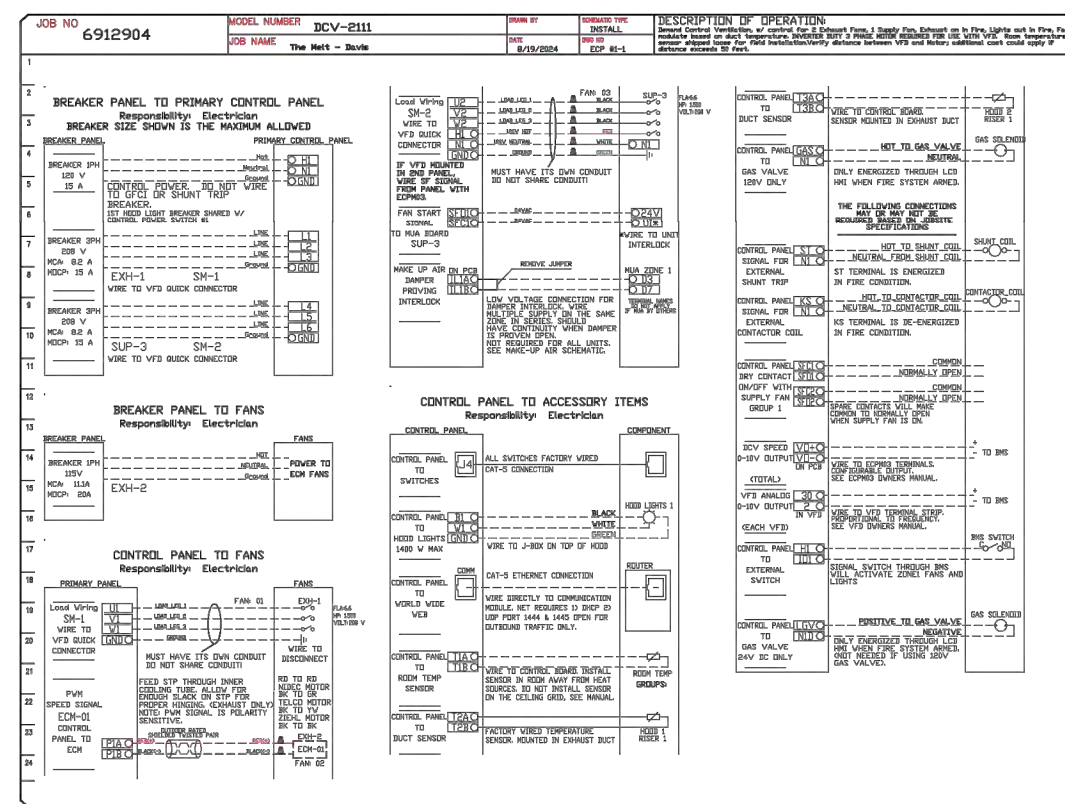


ELECTRICAL PACKAGE - JOB#6912004											
NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	#	HP	VOLT	FLA
				UTILITY CABINET LEFT HOOD # 1	1 LIGHT 1 FAN						
1		BCV-0503	UTILITY CABINET LEFT			SMART CONTROLS BCV	EXHAUST	3	1500	200	66
							EXHAUST	1	0.75HP	115	8.9
							SUPPLY	3	1500	200	66



CASLink Monitor and Control

- Flood Control Panel to support communications in cloud-based Building Management System.
- Flood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as BMS7725 in the points list.
- Flood Control Panel to allow cloud-based Building Management System to control parameters outlined as C027265 in the points list.
- Flood Control Panel to allow cloud-based Building Management System to implement SYSTEM ENGINEER control strategies for fully integrated Building Management.

[illegible]

REVISIONS	
NO.	DESCRIPTION

CAPTIVE AIR

Central CA
 A Public Court, Escondido, CA 92026-9600 FAX: 951.927.9600 EMAIL: capt@aig.com
www.captiveair.com

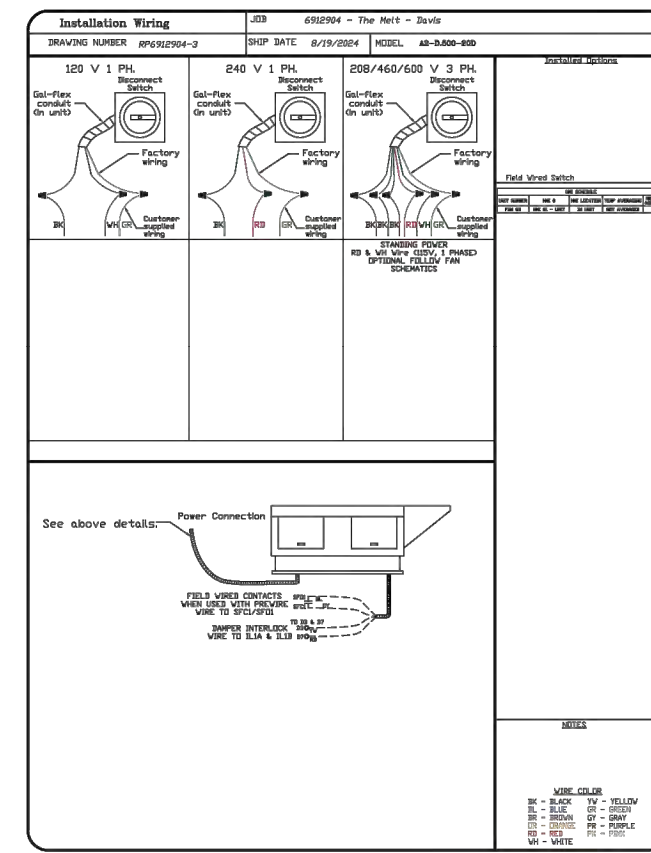
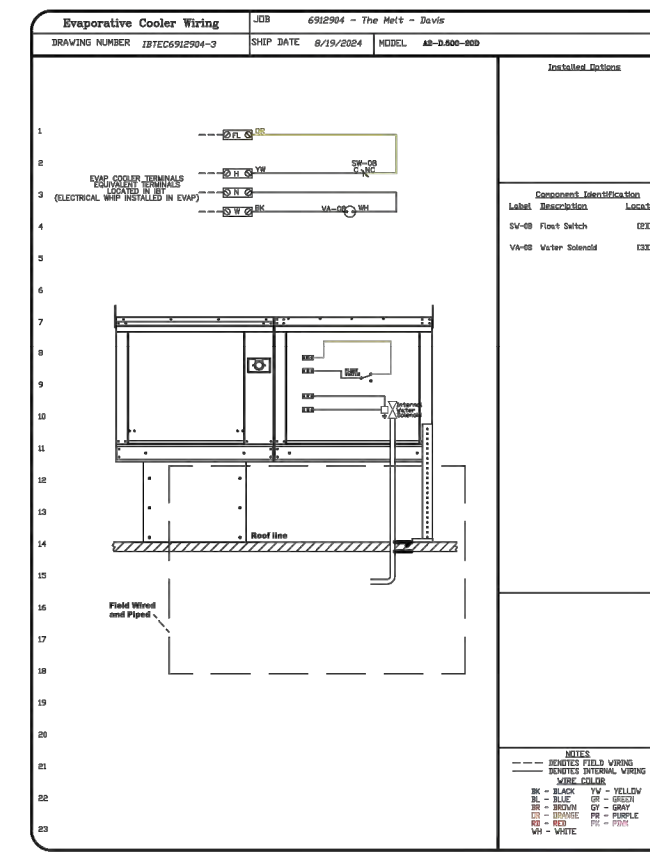
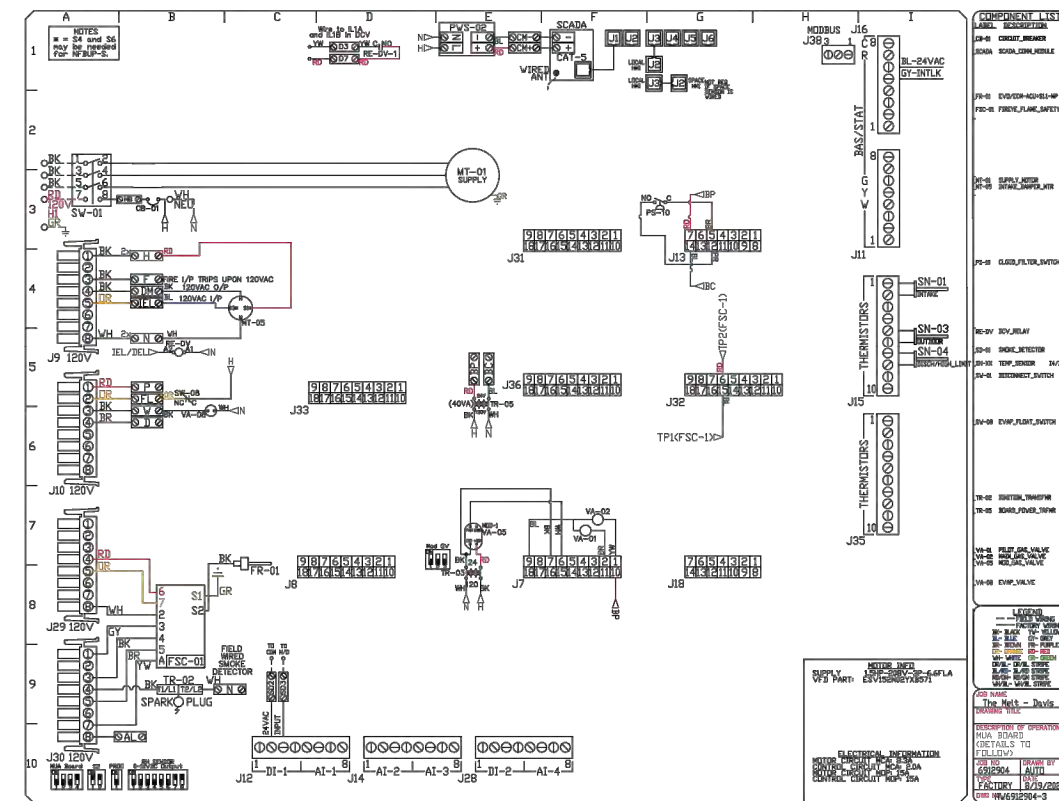
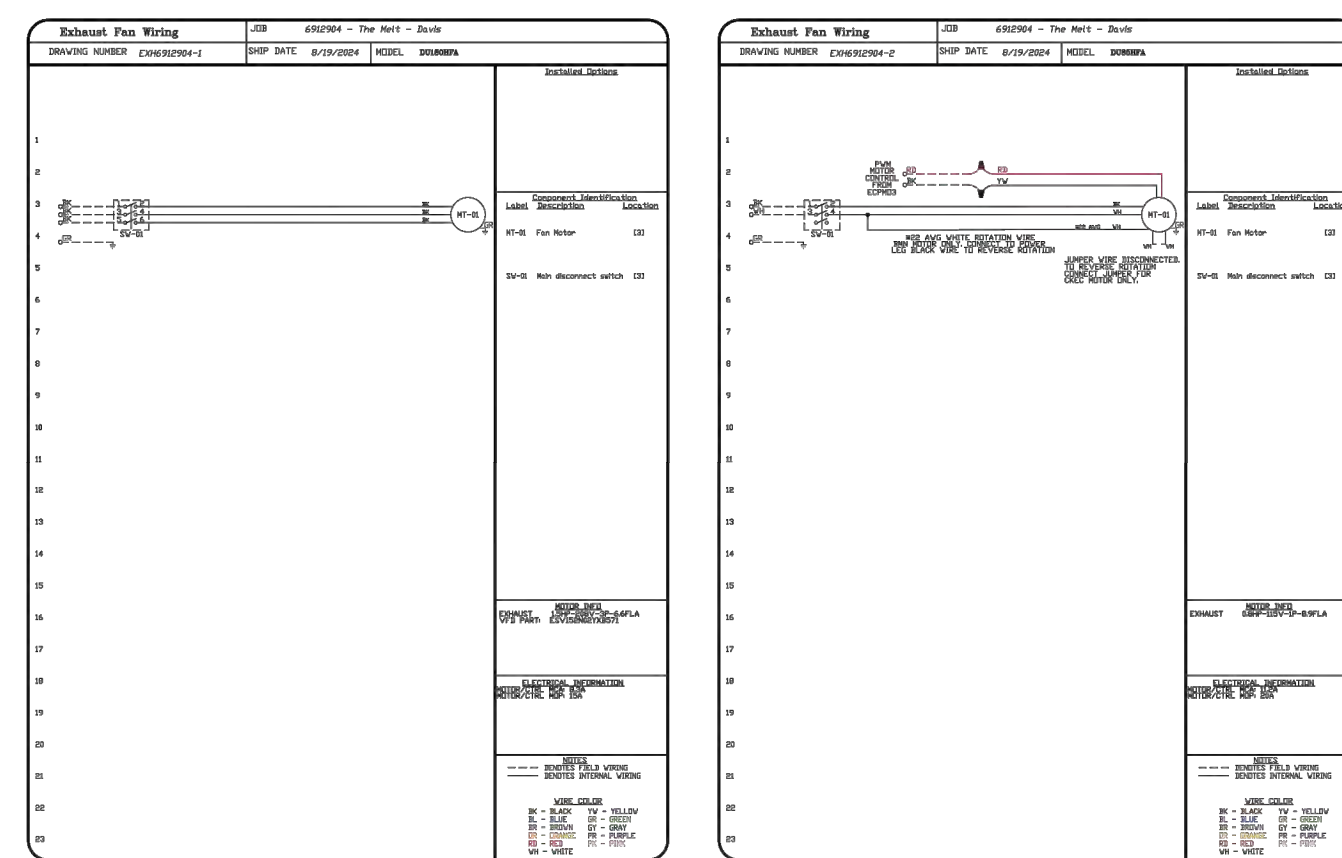
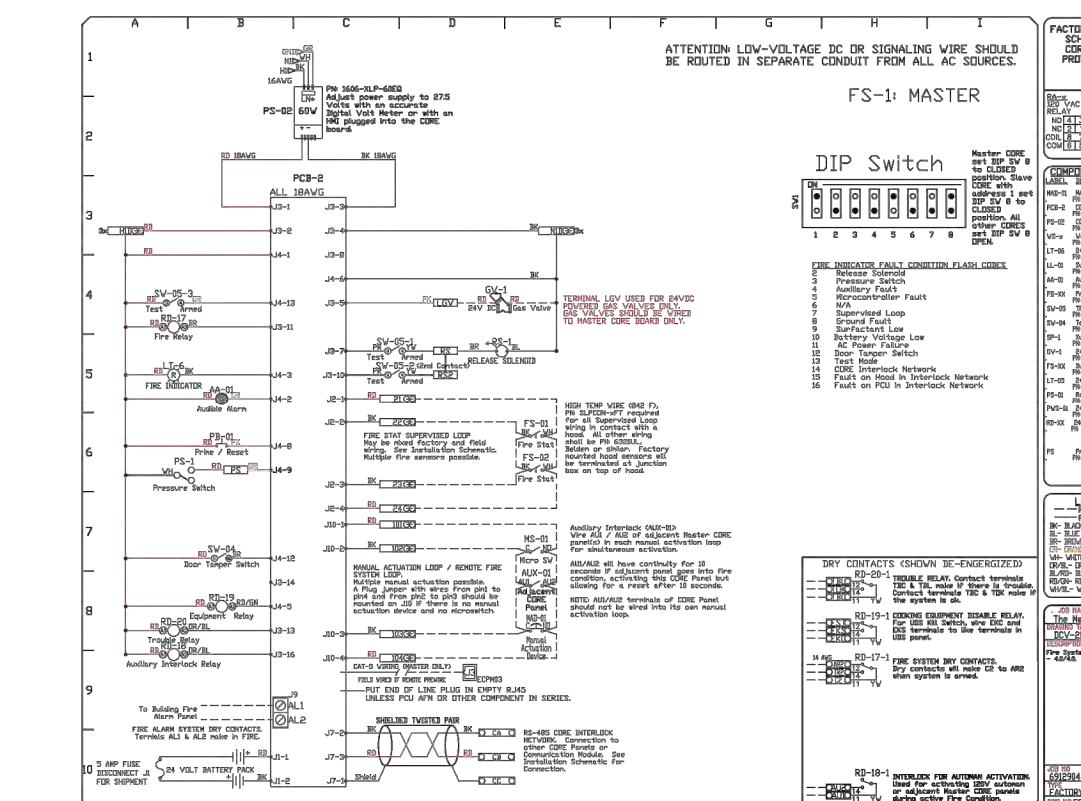
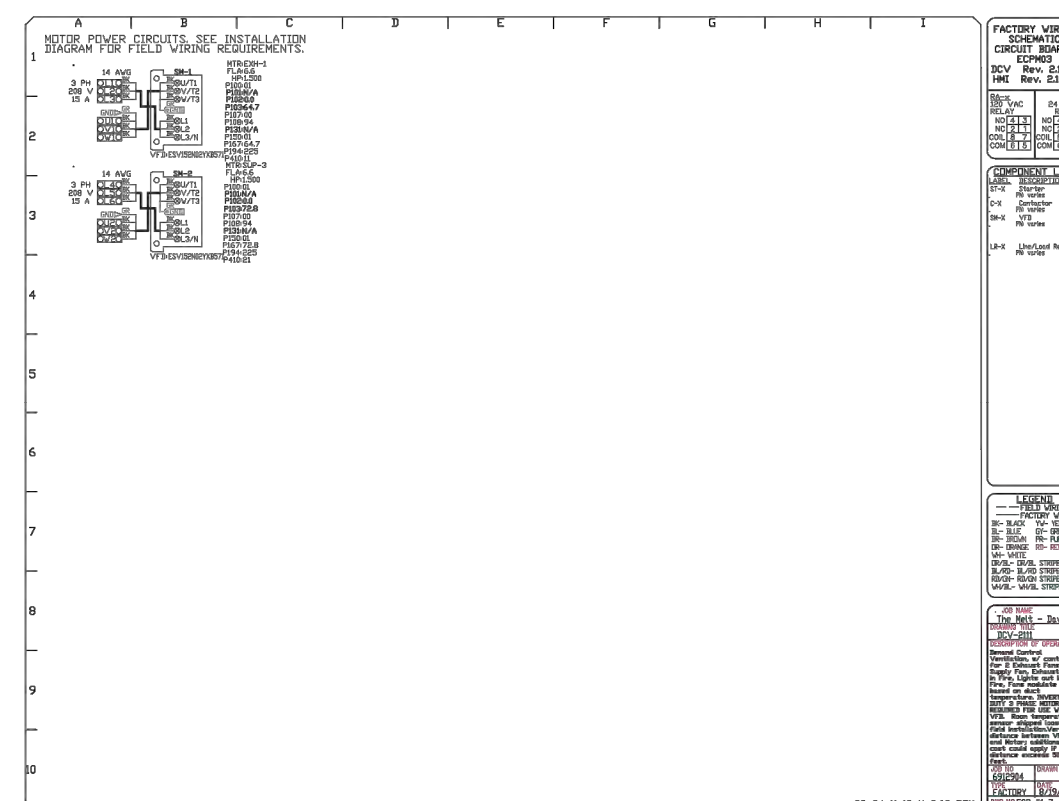
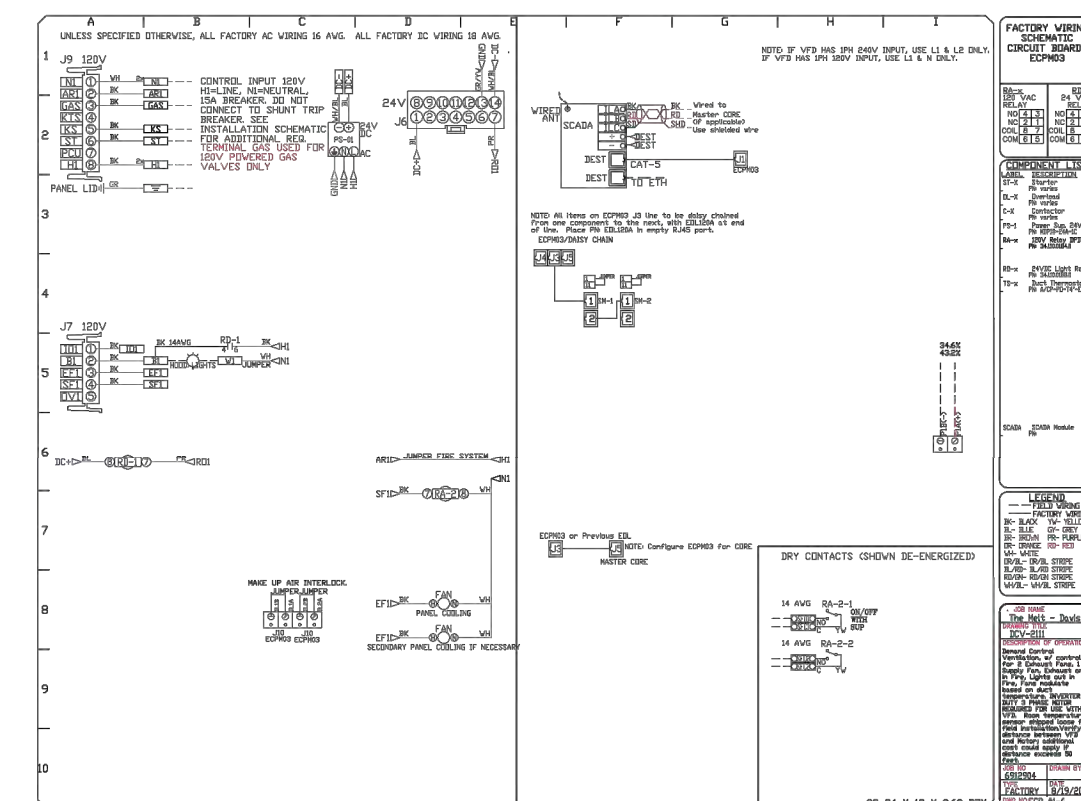
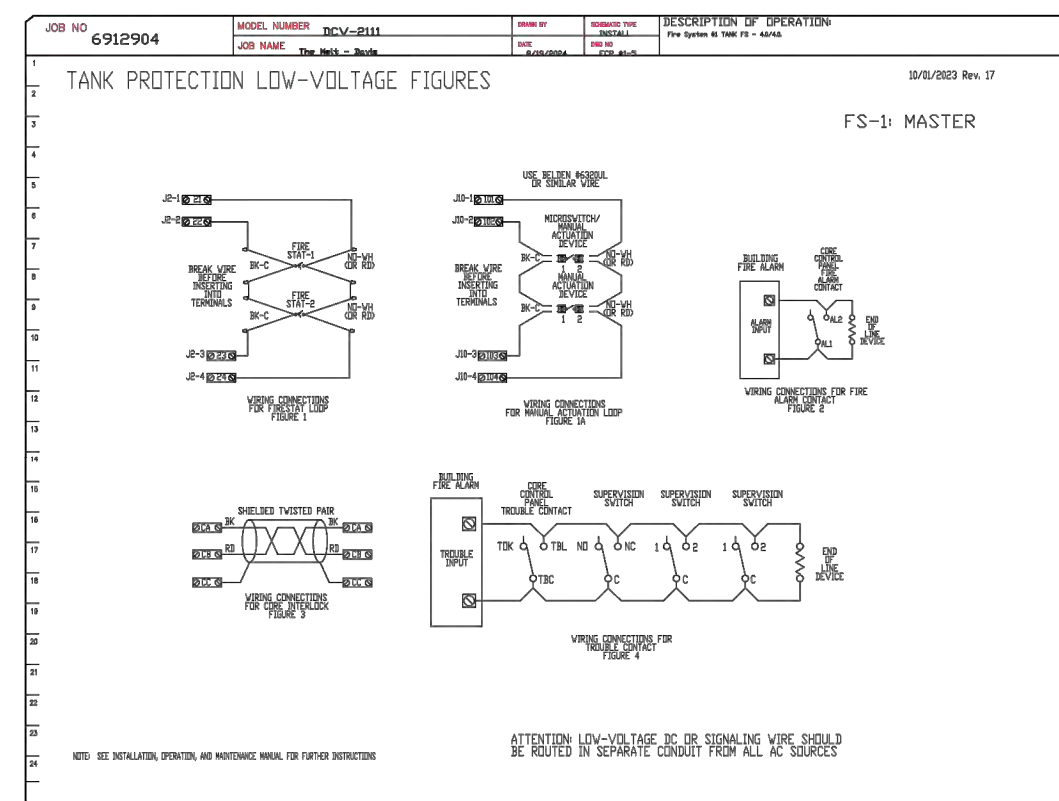
The Nelt - Davis
 737 - 885 Russell Boulevard,
 Davis, CA, 95616

DATE: 6/19/2024
DWG#: 691904

DRAWN BY: Barry Ng
SCALE: 1/2" = 1'-0"

MASTER DRAWING

SHEET NO.
 9

[illegible][illegible]

</	
---	--

SIGNATURE DATE:

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

theMELT

REV	DATE	DESCRIPTION
1	1/16/25	CITY COMMENTS

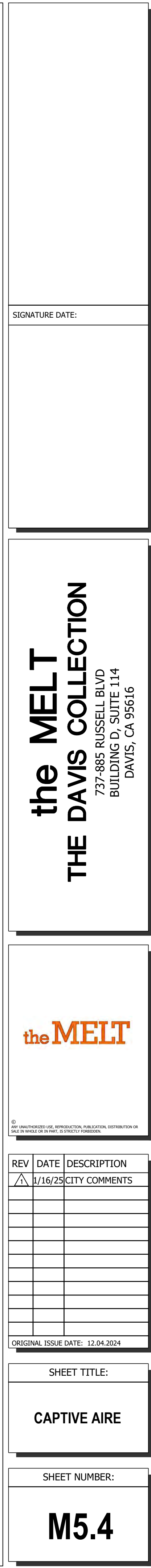
ORIGINAL ISSUE DATE: 12.04.2024

SHEET TITLE:

CAPTIVE AIRE

SHEET NUMBER:

M5.2



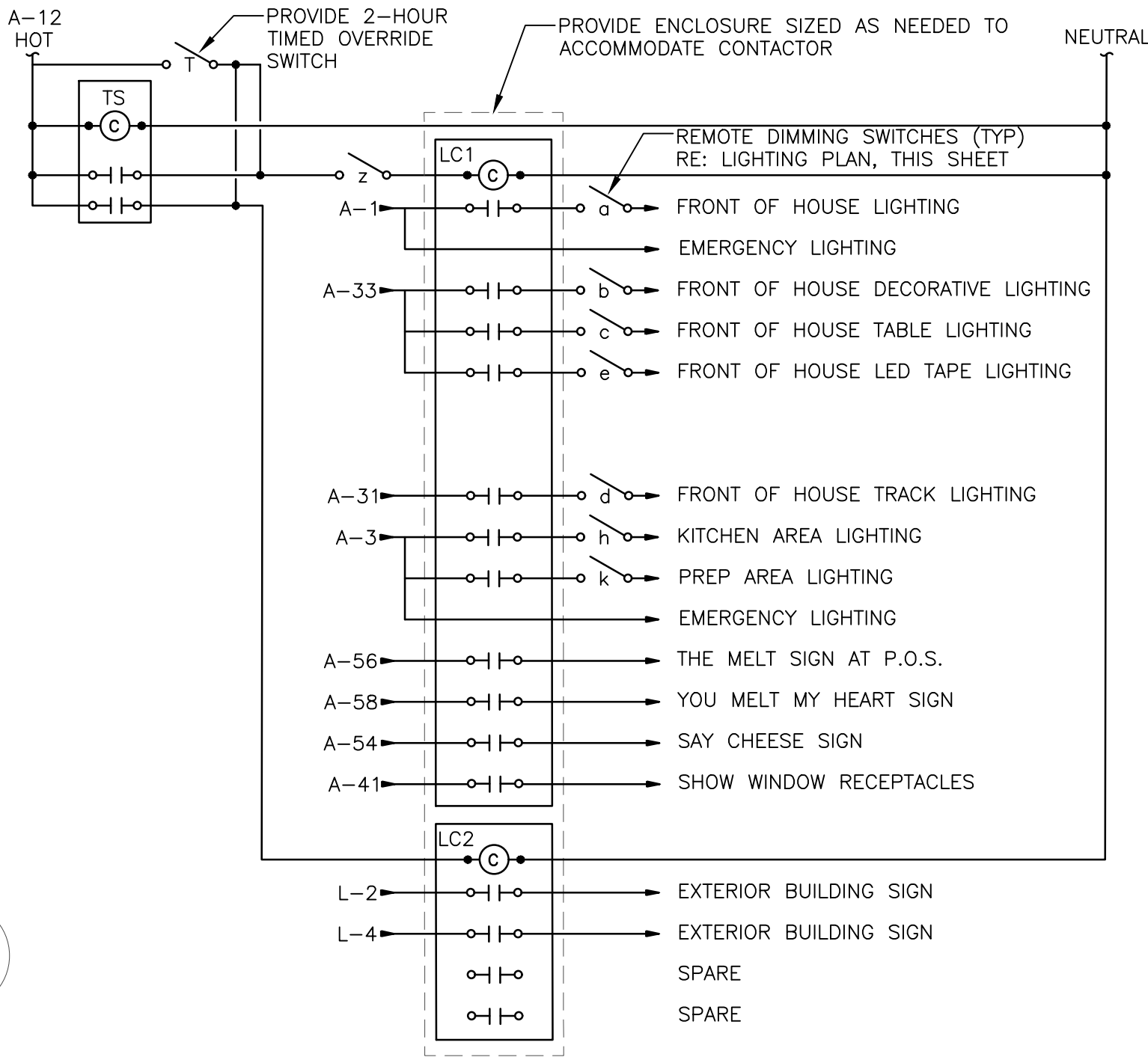


ELECTRICAL KEYNOTES: (1, 2, X)

- LANDLORD'S EXISTING EXTERIOR LIGHTING, EMERGENCY LIGHTING, CIRCUITRY AND CONTROLS TO REMAIN.
- CIRCUIT WALK-IN COOLER LIGHTS TO A-8.
- PROVIDE BODINE ELI-S-20 SERIES INVERTERS WITH A 90-MINUTE EMERGENCY BATTERY BACK-UP AND ADDITIONAL OPTIONS LISTED BELOW.
 - VA RATING: 20VA
 - BATTERY: MAINTENANCE-FREE NICKEL-CADMIUM
 - VOLTAGE: 120V INPUT / 120V OUTPUT.
 - MOUNTING: CEILING. REFER TO INVERTER ONE-LINE DIAGRAM ON THIS SHEET FOR ADDITIONAL INFORMATION.
- CIRCUIT THRU INVERTER #1.
- CIRCUIT THRU INVERTER #2.
- AREA NOT IN SCOPE OF WORK.
- PROVIDE DAYLIGHT ZONES AND CONTROLS PER CODE.

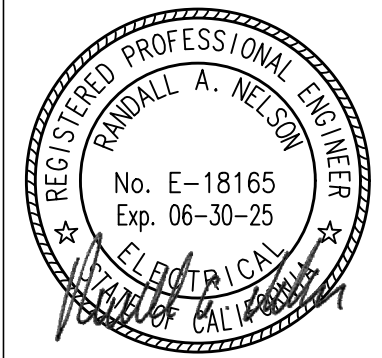
NOTES:

- THIS DETAIL IS SCHEMATIC IN NATURE. PROVIDE ALL NECESSARY WIRING, CONDUIT, DEVICES, BOXES, ETC FOR A COMPLETE OPERATING LIGHTING SYSTEM.
- COORDINATE TIMESWITCH SETTINGS WITH OWNER AND LANDLORD.
- TIMESWITCHES (TS) - PROVIDE 7-DAY, DIGITAL, 2 CHANNEL, TORK DWZ200B TIME SWITCH WITH A MINIMUM 10 HOUR BATTERY BACK-UP OR EQUAL.
- CONTACTOR (LC) - PROVIDE SQUARE D MODEL 8903 ELECTRICALLY HELD CONTACTOR WITH POLE QUANTITY AS INDICATED OR EQUAL.



2 LIGHTING CONTROLS DETAIL

1 ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"



SIGNATURE DATE: 01/16/2024

Elect. Engineer of Record
Randall A. Nelson, P.E.
11880 COLLEGE BLVD, STE. 415
OVERLAND PARK, KS 66210
P 913.522.5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

theMELT

REV	DATE	DESCRIPTION
1	1/16/25	CITY COMMENTS

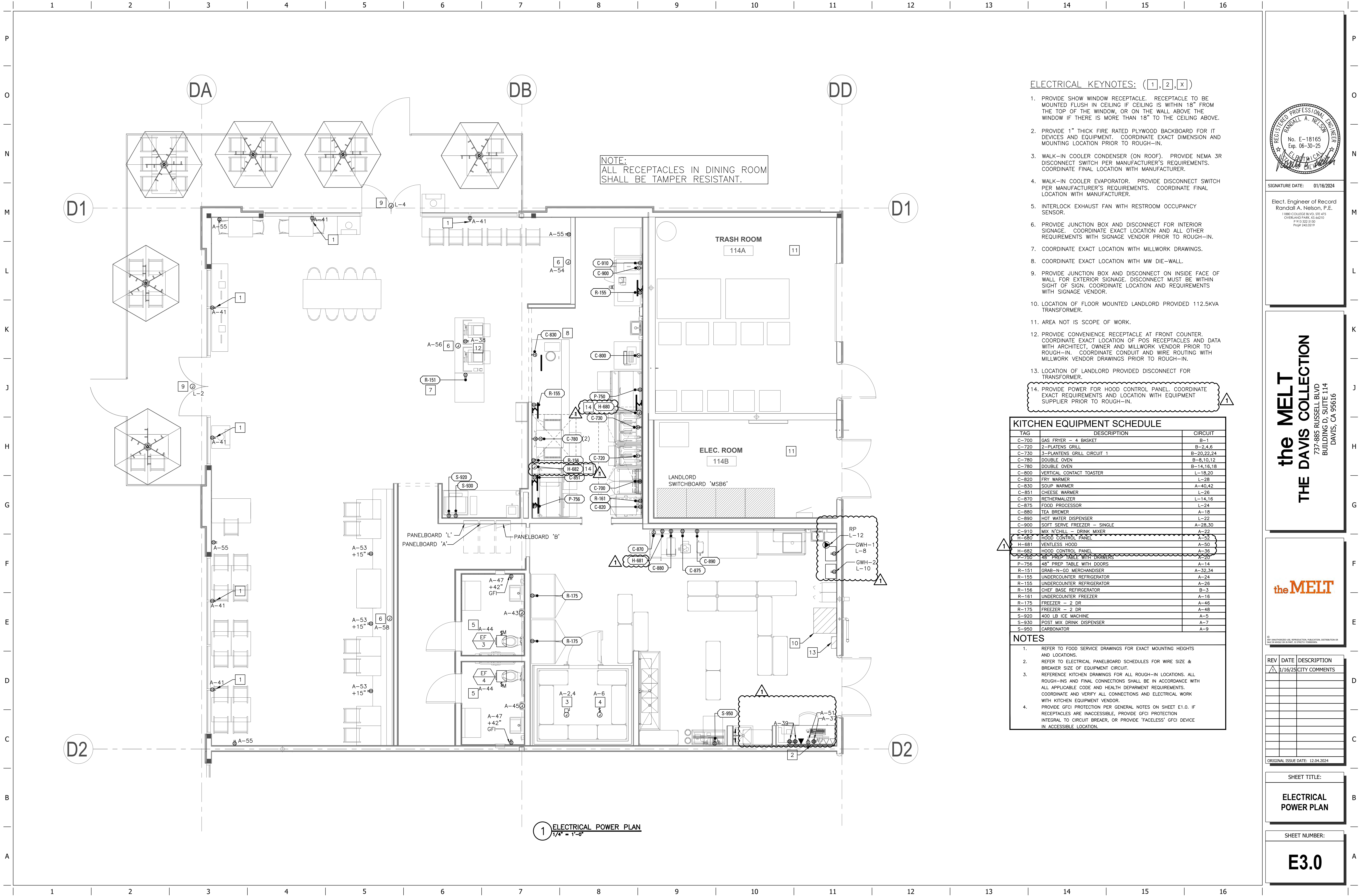
ORIGINAL ISSUE DATE: 12.04.2024

SHEET TITLE:

ELECTRICAL
LIGHTING PLAN

SHEET NUMBER:

E2.0



ELECTRICAL KEYNOTES: (1, 2, X)

1. PROVIDE SHOW WINDOW RECEPTACLE. RECEPTACLE TO BE MOUNTED FLUSH IN CEILING IF CEILING IS WITHIN 18" FROM THE TOP OF THE WINDOW, OR ON THE WALL ABOVE THE WINDOW IF THERE IS MORE THAN 18" TO THE CEILING ABOVE.
2. PROVIDE 1" THICK FIRE RATED PLYWOOD BACKBOARD FOR IT DEVICES AND EQUIPMENT. COORDINATE EXACT DIMENSION AND MOUNTING LOCATION PRIOR TO ROUGH-IN.
3. WALK-IN COOLER CONDENSER (ON ROOF). PROVIDE NEMA 3R DISCONNECT SWITCH PER MANUFACTURER'S REQUIREMENTS. COORDINATE FINAL LOCATION WITH MANUFACTURER.
4. WALK-IN COOLER EVAPORATOR. PROVIDE DISCONNECT SWITCH PER MANUFACTURER'S REQUIREMENTS. COORDINATE FINAL LOCATION WITH MANUFACTURER.
5. INTERLOCK EXHAUST FAN WITH RESTROOM OCCUPANCY SENSOR.
6. PROVIDE JUNCTION BOX AND DISCONNECT FOR INTERIOR SIGNAGE. COORDINATE EXACT LOCATION AND ALL OTHER REQUIREMENTS WITH SIGNAGE VENDOR PRIOR TO ROUGH-IN.
7. COORDINATE EXACT LOCATION WITH MILLWORK DRAWINGS.
8. COORDINATE EXACT LOCATION WITH MW DIE-WALL.
9. PROVIDE JUNCTION BOX AND DISCONNECT ON INSIDE FACE OF WALL FOR EXTERIOR SIGNAGE. DISCONNECT MUST BE WITHIN SIGHT OF SIGN. COORDINATE LOCATION AND REQUIREMENTS WITH SIGNAGE VENDOR.
10. LOCATION OF FLOOR MOUNTED LANDLORD PROVIDED 112.5KVA TRANSFORMER.
11. AREA NOT IS SCOPE OF WORK.
12. PROVIDE CONVENIENCE RECEPTACLE AT FRONT COUNTER. COORDINATE EXACT LOCATION OF POS RECEPTACLES AND DATA WITH ARCHITECT, OWNER AND MILLWORK VENDOR PRIOR TO ROUGH-IN. COORDINATE CONDUIT AND WIRE ROUTING WITH MILLWORK VENDOR DRAWINGS PRIOR TO ROUGH-IN.
13. LOCATION OF LANDLORD PROVIDED DISCONNECT FOR TRANSFORMER.
14. PROVIDE POWER FOR HOOD CONTROL PANEL. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

KITCHEN EQUIPMENT SCHEDULE

TAG	DESCRIPTION	CIRCUIT
C-700	GAS FRYER - 4 BASKET	B-1
C-720	2-PLATENS GRILL	B-2,4,6
C-730	3-PLATENS GRILL CIRCUIT 1	B-20,22,24
C-780	DOUBLE OVEN	B-8,10,12
C-780	DOUBLE OVEN	B-14,16,18
C-800	VERTICAL CONTACT TOASTER	L-18,20
C-820	FRY WARMER	L-28
C-830	SOUP WARMER	A-40,42
C-851	CHEESE WARMER	L-26
C-870	RETHERMALIZER	L-14,16
C-875	FOOD PROCESSOR	L-24
C-880	TEA BREWER	A-18
C-890	HOT WATER DISPENSER	L-22
C-900	SOFT SERVE FREEZER - SINGLE	A-28,30
C-910	MIX N'CHILL - DRINK MIXER	A-22
H-680	HOOD CONTROL PANEL	A-52
H-681	VENTLESS HOOD	A-50
H-682	HOOD CONTROL PANEL	A-56
P-750	48" PREP TABLE WITH DOORS	A-14
P-756	48" PREP TABLE WITH DOORS	A-14
R-151	GRAB-N-GO MERCHANDISER	A-32,34
R-155	UNDERCOUNTER REFRIGERATOR	A-24
R-155	UNDERCOUNTER REFRIGERATOR	A-26
R-156	CHEF BASE REFRIGERATOR	B-3
R-161	UNDERCOUNTER FREEZER	A-16
R-175	FREEZER - 2 DR	A-46
R-175	FREEZER - 2 DR	A-48
S-920	400 LB ICE MACHINE	A-5
S-930	POST MIX DRINK DISPENSER	A-7
S-950	CARBONATOR	A-9

NOTES

1. REFER TO FOOD SERVICE DRAWINGS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS.
2. REFER TO ELECTRICAL PANELBOARD SCHEDULES FOR WIRE SIZE & BREAKER SIZE OF EQUIPMENT CIRCUIT.
3. REFERENCE KITCHEN DRAWINGS FOR ALL ROUGH-IN LOCATIONS. ALL ROUGH-INS AND FINAL CONNECTIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODE AND HEALTH DEPARMENT REQUIREMENTS. COORDINATE AND VERIFY ALL CONNECTIONS AND ELECTRICAL WORK WITH KITCHEN EQUIPMENT VENDOR.
4. PROVIDE GFCI PROTECTION PER GENERAL NOTES ON SHEET E1.0. IF RECEPTACLES ARE INACCESSIBLE, PROVIDE GFCI PROTECTION INTEGRAL TO CIRCUIT BREAKER, OR PROVIDE 'FACELESS' GFCI DEVICE IN ACCESSIBLE LOCATION.



SIGNATURE DATE: 01/16/2024

Elect. Engineer of Record
Randall A. Nelson, P.E.
11980 COLLEGE BLVD, STE 403
OVERLAND PARK, KS 66210
P 913.522.5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

theMELT

REV DATE DESCRIPTION

1	1/16/25	CITY COMMENTS
---	---------	---------------

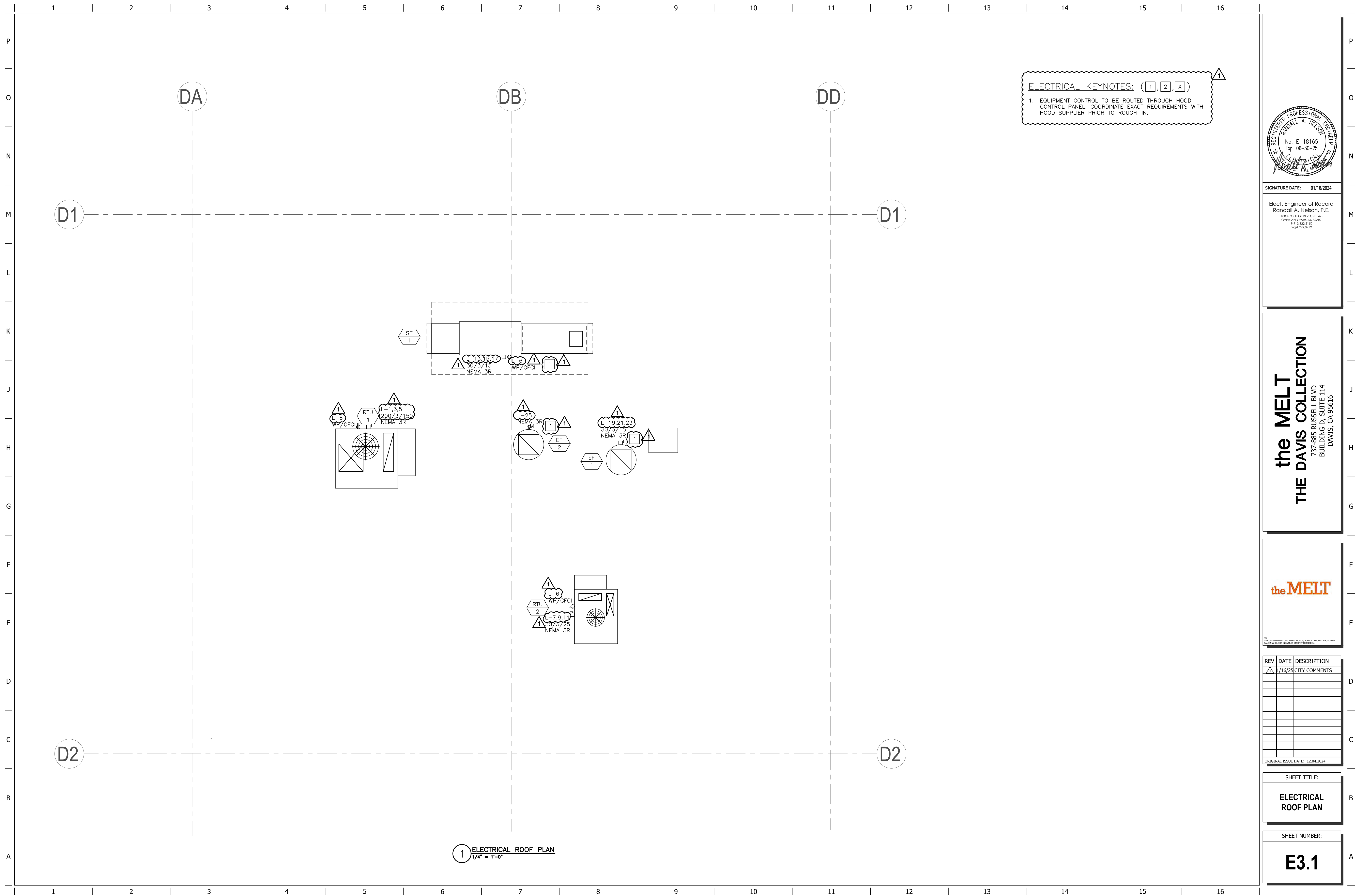
ORIGINAL ISSUE DATE: 12.04.2024

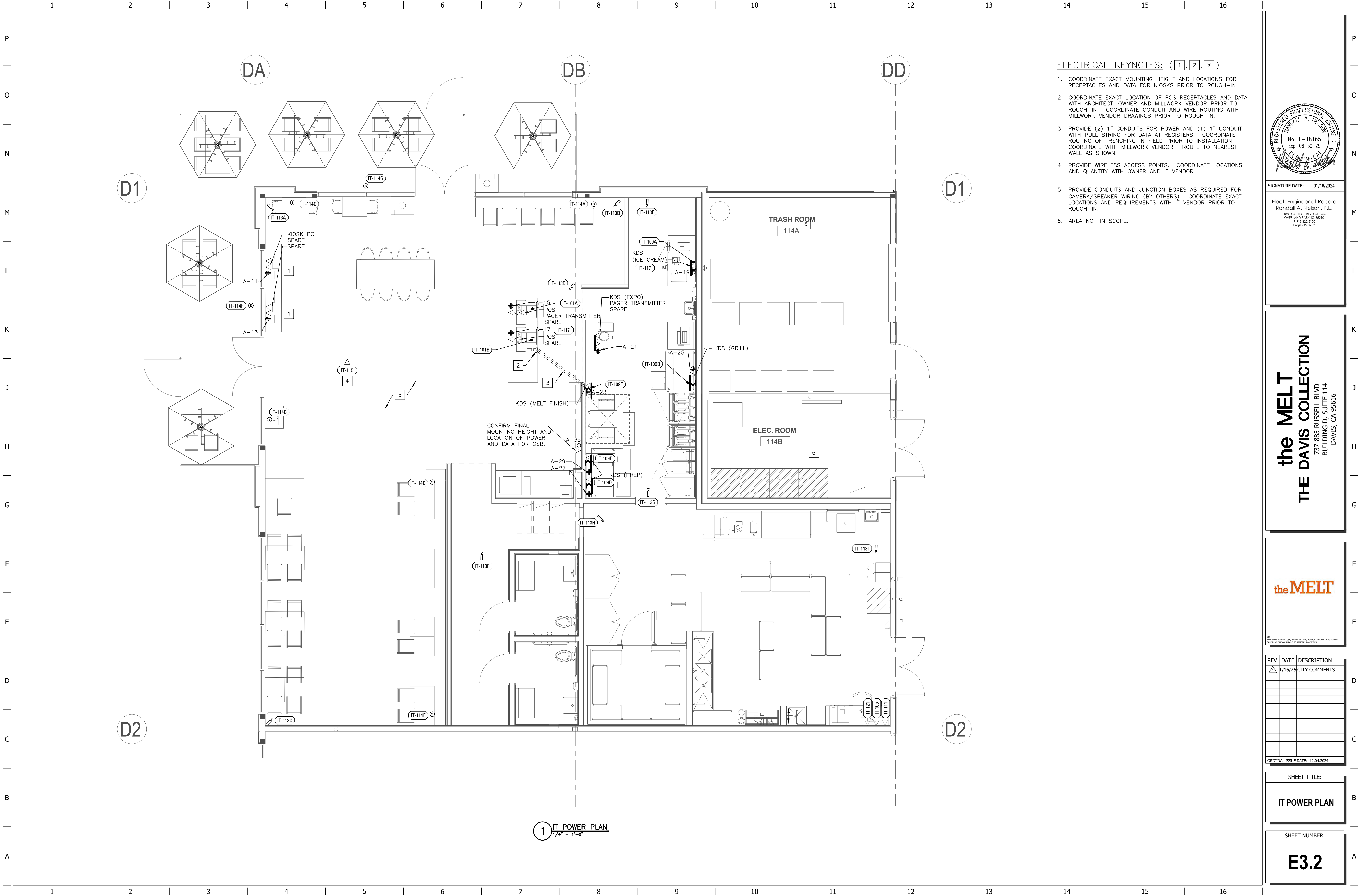
SHEET TITLE:

ELECTRICAL
POWER PLAN

SHEET NUMBER:

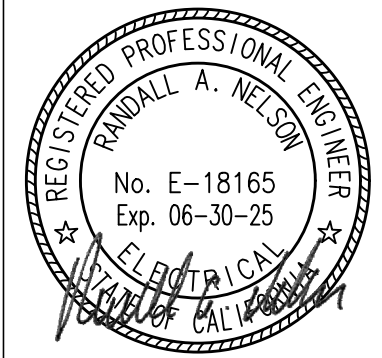
E3.0





ELECTRICAL KEYNOTES: (1,2,X)

- COORDINATE EXACT MOUNTING HEIGHT AND LOCATIONS FOR RECEPTACLES AND DATA FOR KIOSKS PRIOR TO ROUGH-IN.
- COORDINATE EXACT LOCATION OF POS RECEPTACLES AND DATA WITH ARCHITECT, OWNER AND MILLWORK VENDOR PRIOR TO ROUGH-IN. COORDINATE CONDUIT AND WIRE ROUTING WITH MILLWORK VENDOR DRAWINGS PRIOR TO ROUGH-IN.
- PROVIDE (2) 1" CONDUITS FOR POWER AND (1) 1" CONDUIT WITH PULL STRING FOR DATA AT REGISTERS. COORDINATE ROUTING OF TRENCHING IN FIELD PRIOR TO INSTALLATION. COORDINATE WITH MILLWORK VENDOR. ROUTE TO NEAREST WALL AS SHOWN.
- PROVIDE WIRELESS ACCESS POINTS. COORDINATE LOCATIONS AND QUANTITY WITH OWNER AND IT VENDOR.
- PROVIDE CONDUITS AND JUNCTION BOXES AS REQUIRED FOR CAMERA/SPEAKER WIRING (BY OTHERS). COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH IT VENDOR PRIOR TO ROUGH-IN.
- AREA NOT IN SCOPE.



SIGNATURE DATE: 01/16/2024

Elect. Engineer of Record
Randall A. Nelson, P.E.
11980 COLLEGE BLVD, STE. 415
OVERLAND PARK, KS 66210
P 913.522.5150
Proj# 242.0219

the **MELT**
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

the **MELT**

REV	DATE	DESCRIPTION
1	1/16/25	CITY COMMENTS

ORIGINAL ISSUE DATE: 12.04.2024

SHEET TITLE:

IT POWER PLAN

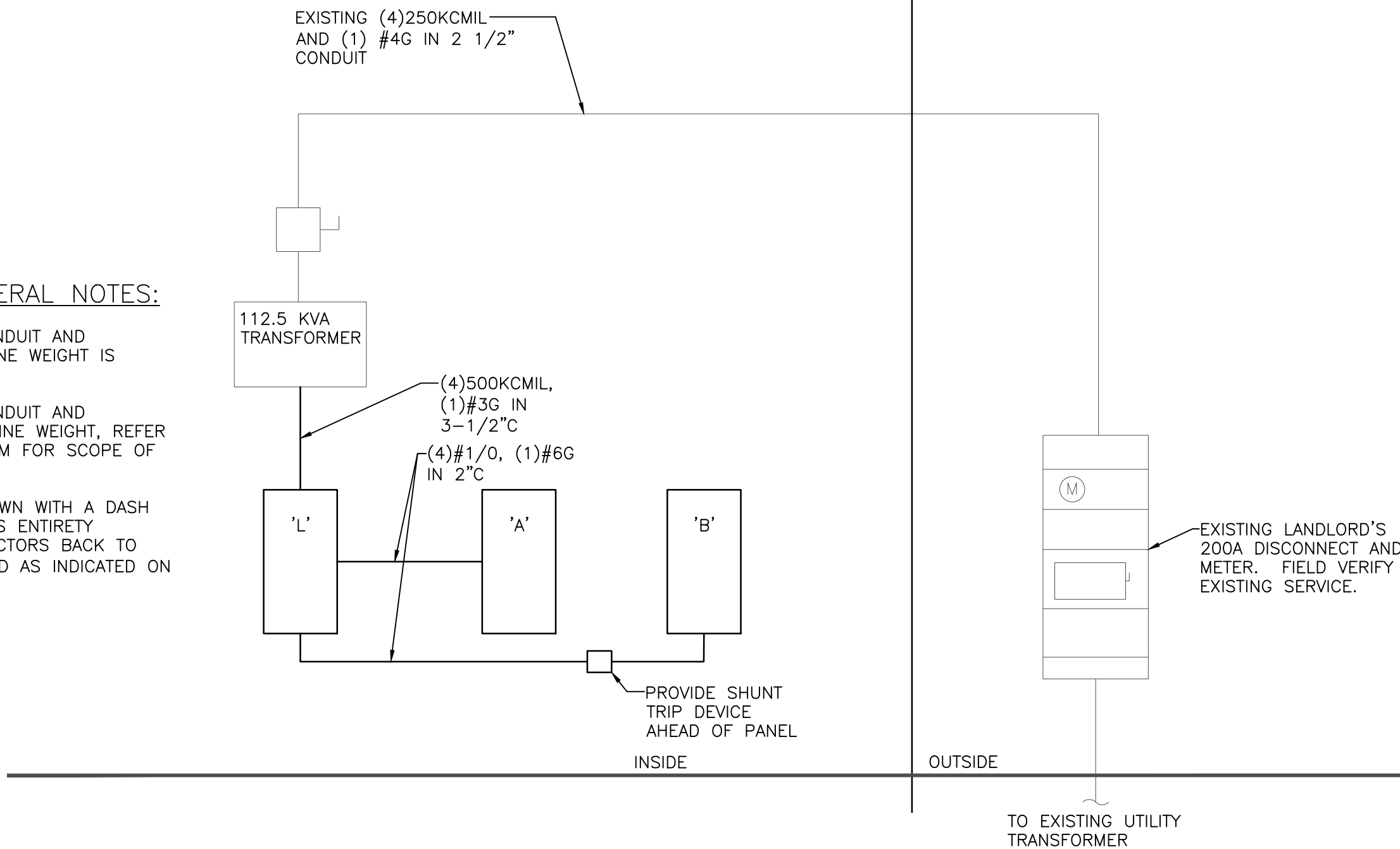
SHEET NUMBER:

E3.2

12345678910111213141516

ONE-LINE DIAGRAM GENERAL NOTES:

- ALL ELECTRICAL EQUIPMENT, CONDUIT AND CONDUCTORS SHOWN IN THIN LINE WEIGHT IS EXISTING TO REMAIN.
- ALL ELECTRICAL EQUIPMENT, CONDUIT AND CONDUCTORS SHOWN IN BOLD LINE WEIGHT, REFER TO NOTES ON ONE-LINE DIAGRAM FOR SCOPE OF WORK.
- ALL ELECTRICAL EQUIPMENT SHOWN WITH A DASH LINE ARE TO BE REMOVED IN ITS ENTIRETY INCLUDING CONDUIT AND CONDUCTORS BACK TO PANELBOARD/DISTRIBUTION BOARD AS INDICATED ON ONE-LINE DIAGRAM.



VERIFY EXISTING CONDITIONS MATCH DRAWINGS PROVIDED.

PROVIDE ADDITIONAL GUTTER SPACE ON EACH SIDE OF EACH PANELBOARD ENCLOSURE FOR FUTURE CT METERING OF INDIVIDUAL BRANCH CIRCUITS PER TITLE 24 ENERGY CODE.

ONE-LINE DIAGRAM NOT TO SCALE

LIGHT FIXTURE SCHEDULE

FIXTURE TAG	MANUFACTURER	MODEL #	LAMP	VOLTAGE	INSTALLATION	DESCRIPTION	NOTES
P1	ALPHABET	BETA-3R-SW-10LM-27K-90-40C-BLACK-BLACK-JCOV-XX-UNV-DIM10	INCLUDED LED	120	SUSPENDED	SUSPENDED CYLINDER DOWNLIGHT	
P1E	ALPHABET	BETA-3R-SW-10LM-27K-90-40C-BLACK-BLACK-JCOV-XX-UNV-DIM10-EM10CA20	INCLUDED LED	120	SUSPENDED	SUSPENDED CYLINDER DOWNLIGHT WITH REMOTE EMERGENCY BATTERY BACK-UP	1
L1	FEELUX	NDF20-27K-120V-C90	INCLUDED LED	120	SURFACE	SURFACE MOUNTED LINE VOLTAGE LINEAR LED WITH QUICK SNAP CONNECTION	
L2	FEELUX	FTT18-27K-24V-C90	INCLUDED LED	120	SURFACE	FLEXIBLE TAPE LIGHT MOUNTED IN CHANNEL	
R1	ALPHABET	NBU4-RD-40LM-27K-90-SS30-WH-WH-NC-UNV-DIM10	INCLUDED LED	120	RECESSED	6" ROUND LED DOWN LIGHT	
R1E	ALPHABET	NBU4-RD-40LM-27K-90-SS30-WH-WH-NC-UNV-DIM10-EM10CA20	INCLUDED LED	120	RECESSED	6" ROUND LED DOWN LIGHT WITH REMOTE EMERGENCY BATTERY BACK-UP	1
R2	LUMENTURE	DLA60-27H-40-W-W-R-U-275-N	INCLUDED LED	120	RECESSED	2" ROUND LED DOWNLIGHT	2
R3	LITHONIA	STAKP-2X4-7200LM-80CRI-30K-COL-MIN10-MVOLT	INCLUDED LED	120	RECESSED	2X4 LED TROFFER	
R3EM	LITHONIA	STAKP-2X4-7200LM-80CRI-30K-COL-MIN10-MVOLT-E10WLCF	INCLUDED LED	120	RECESSED	2X4 LED TROFFER WITH EMERGENCY BATTERY BACK-UP	1
TR	CONTECH LIGHTING	LT(LENGTH)-B	-	120	SUSPENDED	SUSPENDED TRACK	
T1	LUMENTURE	TWW160-27H-1600-B-J	INCLUDED LED	120	TRACK	TRACK MOUNTED WALL WASH	
T3	LUMENTURE	T65-27H-1500-B-J	INCLUDED LED	120	TRACK	TRACK MOUNTED ACCENT LIGHT	
YP1	BARN LIGHT	BLE-C-WHS16-975-995-SBK-NA-CGG-940-CLR-NA-E26	(1) E26 BULB	120	PENDANT	DECORATIVE RLM PENDANT WITH WIRE GUARD	
YP2	BASILE STUDIO	I-BEAM LINEAR PENDANT-66"	(6) G25 BULBS	120	PENDANT	*MANUFACTURER TO PROVIDE STICK STATING 9W BULB MAX DECORATIVE 66" I-BEAM LINEAR PENDANT	
X	LITHONIA	LHQM-LED-(COLOR)-R-HO	INCLUDED LED	120	SURFACE	LED EXIT SIGN WITH EMERGENCY BATTERY BACK-UP	1

NOTES:

- CIRCUIT EMERGENCY BATTERY BACKUP AHEAD OF ALL CONTROLS FOR PROPER EMERGENCY BATTERY BACK-UP OPERATION.
- CIRCUIT HATCH FIXTURES THROUGH INVERTER AHEAD OF ALL CONTROLS.

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS

BRANCH CIRCUIT RATING (A)	WIRE SIZE (AWG)	MAXIMUM BRANCH CIRCUIT LENGTHS (FT)				
		120V	208V	240V	277V	480V
20A	12	50	100	110	150	250
	10	100	175	200	250	425
	8	150	275	325	375	675
	6	250	450	550	625	1000
30A	12	50	100	125	150	275
	10	100	175	200	250	400
	8	150	300	350	400	700
	6	275	500	575	650	1000

NOTE:

- PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
- CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 7 CURRENT CARRYING COPPER CONDUCTORS IN A SINGLE STEEL CONDUIT.
- LIMITS FOR CONDUCTOR LENGTH SHOWN AS BASED ON A MAXIMUM OF 3% VOLTAGE DROP TO COMPLY WITH THE NEC FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING. THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

PANELBOARD L															
BUS AMPS: MAIN SIZE / TYPE: VOLTS/PHASE: MOUNTING:				400A 400A MCB 208Y/120V, 3PH, 4W SURFACE		LOCATION: NEMA RATING: AFC VALUE: AIC RATING:		BACK OF HOUSE NEMA 1 FIELD VERIFY 10,000		GROUND BUS: ISOL. GROUND BUS: FEED THRU LUGS: SECTIONS:		YES NO NO 1 OF 1			
CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA)			LOAD (VA)	WIRE SIZE	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #			
					A	B	C			P	AMPS				
1	RTU-1	150	3	10,980	12,180			1,200	12	1	20	SIGNAGE	1		
							12,180			1,200	12	1	20	SIGNAGE	2
									11,520			1,200	12	1	20
3	RTU-2	25	3	10,980				1,200	12	1	20	GWH-1	4		
							2,372			200	12	1	20	GWH-2	5
							2,172	2,372		2,257	85	12	1	20	RP
7				2,172				2,172	85	12	1	20	C-870 RETHERMOLIZER	7	
11				996	4,095			3,099	10	2	30		8		
13	SF-1	15	3	12	996	4,095		3,099					9		
15				996				1,643	12	2	20	C-800 VERTICAL CONTACT TOASTER	10		
17				996	2,639		2,639	1,643					11		
19	EF-1	15	3	12	996		2,340	1,344	12	1	20	C-890 HOT WATER DISPENSER	12		
23				996				2,436	1,440	12	1	20	C-875 FOOD PROCESSOR	13	
25	EF-2	20	1	12	1,656	2,856		1,740	1,200	12	1	20	C-851 CHEESE WARMER	14	
27	SPARE	20	1	0	0		1,740	1,740	12	1	20	C-820 FRY WARMER	15		
29	SPARE	20	1	0	0		0	0				SPACE ONLY	16		
31	SPACE ONLY	20	1	0	0	11,683		11,683					17		
33	SPACE ONLY	20	1	0	0	16,617		16,617					18		
35	SPACE ONLY	20	1	0	0		14,298	14,298	OL	3	150	PANELBOARD 'A'	19		
37	SPACE ONLY	20	1	0	0	16,448		16,448					20		
39	SPACE ONLY	20	1	0	0	15,212		15,212	OL	3	150	PANELBOARD 'B'	21		
41	SPACE ONLY	20	1	0	0		15,007	15,007					22		
PER PHASE SUB-TOTALS					52,272	54,556	48,157	LEGEND:							
TOTAL CONNECTED PANELBOARD (VA)					154,985			TS - VIA TIME SWITCH				ST - SHUNT TRIP			
TOTAL CONNECTED PANELBOARD (AMPS)					430			GF - GROUND FAULT INTERRUPTER				LC - LOCKING TAB			
TOTAL PANELBOARD DEMAND (VA)					139,701			FA - FIRE ALARM / RED / LOCKING TAB				IO - ISOLATED GROUND			
TOTAL PANELBOARD DEMAND (AMPS)					388							OL - RE: ONE-LINE DIAGRAM			
												LC# - LIGHTING CONTACTOR			

PANELBOARD A										
BUS AMPS: 225A MAIN SIZE / TYPE: MLO VOLTS/PHASE: 208Y/120V, 3PH, 4W MOUNTING: SURFACE				LOCATION: BACK OF HOUSE NEMA RATING: NEMA 1 AFC VALUE: 2,550 AIC RATING: 10,000			GROUND BUS: YES ISOL. GROUND BUS: NO FEED THRU LUGS: NO SECTIONS: 1 OF 1			
CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA)	LOAD (VA)	WIRE SIZE	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #
		A	P		A B C		P			
1	DINING ROOM/EM LGT	20	1	12 605	2,165	1,560	12	2 15	WALK-IN COOLER CONDENSER	2
3	BOH/EM LGT	20	1	12 1,189	2,748	1,560				4
5	S-920 ICE MACHINE	20	1	12 1,428		216	12	1 20	WALK-IN COOLER EVAP FAN	6
7	S-930 POST MIX DRINK DISPENSER	20	1	12 420	460	40	12	1 20	WALK-IN COOLER LIGHTS	8
9	S-950 CARBONATOR	20	1	12 240	240	0	1	20	FUTURE EXT LGT	10
11	KIOSK POWER	20	1	12 540		1,040	500	12 1	TIMESWITCH	12
13	KIOSK POWER	20	1	12 540	780	240	12	1 20	P-756 48" PREP TABLE W/ DOORS	14
15	POS POWER	20	1	12 720	996	276	12	1 20	R161 - U.C. REFRIGERATOR	16
17	POS POWER	20	1	12 720		1,728	12	1 20	C-880 TEA BREWER	18
19	KDS	20	1	12 360	624	264	12	1 20	P-750 48" PREP TABLE W/ DRAWERS	20
21	KDS	20	1	12 360	984	624	12	1 20	C-910 MIX N' CHILL DRINK MIXER	22
23	KDS	20	1	12 180		420	240	12 1	R-155 U.C. REFRIGERATOR	24
25	KDS	20	1	12 180	420	240	12	1 20	R-155 U.C. REFRIGERATOR	26
27	KDS	20	1	12 180		2,884	2,704	8 2 35	C-900 SOFT SERVE FREEZER	28
29	KDS	20	1	12 180		2,884	2,704			30
31	LOBBY TRACK LIGHTING	20	1	12 900	2,148	1,248	12	2 20	R-151 GRAB-N-GO MERCHANDISER	32
33	DECORATIVE LOBBY LIGHTING	20	1	12 694	1,942	1,248				34
35	OSB	20	1	12 360		860	500	12 1 20	H-682 HOOD	36
37	MANAGER'S DESK	20	1	12 360	720	360	12	1 20	FRONT COUNTER RCPT	38
39	IT BACK	20	1	12 720		1,030	310	12 2 20	C-830 SOUP WARMER	40
41	SHOW WINDOW RCPTS	20	1	12 1,080		1,390	310			42
43	HAND DRYER	20	1	12 1,500	1,946	446	1	20	RESTROOM LGT/EF-3/EF-4	44
45	HAND DRYER	20	1	12 1,500		3,012	1,512	12 1 20	R-175 2DR FREEZER	46
47	RESTROOM CONVENIENCE RCPTS	20	1	12 360		1,872	1,512	12 1 20	R-175 2DR FREEZER	48
49	SPARE	20	1	0	500	500	500	12 1 20	H-681 VENTLESS HOOD	50
51	IT CONVENIENCE RECEPTACLE	20	1	12 180		1,580	1,400	12 1 20	H-680 HOOD	52
53	DINING ROOM CONV. RCPTS	20	1	12 540		1,740	1,200	12 1 20	SAY CHEESE SIGN	54
55	DINING ROOM CONV. RCPTS	20	1	12 720	1,920	1,200	12	1 20	MELT SIGN AT POS	56
57	SPARE	20	1	0	1,200	1,200	12	1 20	YOU MELT MY HEART SIGN	58
59	SPARE	20	1	0	0	0			SPACE ONLY	60
PER PHASE SUB-TOTALS					11,683	16,617	14,298	LEGEND:		
TOTAL CONNECTED PANELBOARD (VA)					42,598	TS - VIA TIME SWITCH				
TOTAL CONNECTED PANELBOARD (AMPS)					118	GF - GROUND FAULT INTERRUPTER				
TOTAL PANELBOARD DEMAND (VA)					43,029	FA - FIRE ALARM / RED / LOCKING TAB				
TOTAL PANELBOARD DEMAND (AMPS)					119	IS - ISOLATED GROUND				
						OL - RE: ONE-LINE DIAGRAM				
						LC# - LIGHTING CONTACTOR				
						PDLOCK - PAD LOCKABLE C.B.				

PANELBOARD B															
BUS AMPS: 225A MAIN SIZE / TYPE: MLO VOLTS/PHASE: 208Y/120V, 3PH, 4W MOUNTING: SURFACE				LOCATION: BACK OF HOUSE NEMA RATING: NEMA 1 AFC VALUE: 3,717 AIC RATING: 10,000				GROUND BUS: YES ISOL. GROUND BUS: NO FEED THRU LUGS: NO SECTIONS: 1 OF 1							
CKT #	CIRCUIT DESCRIPTION	BREAKER		WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA)			LOAD (VA)	WIRE SIZE	BREAKER		CIRCUIT DESCRIPTION	CKT #	
		AMPS	P			A	B	C			P	AMPS			
1	C-700 GAS FRYER	20	1	12	1,440	4,080			2,640	10	3	30	C-720 2-PLATENS GRILL	2	
3	R-156 CHEF BASE REFRIGERATOR	20	1	12	204		2,844		2,640						4
5	SPARE	20	1		0			2,640	2,640						6
7	SPARE	20	1		0	4,804			4,804	8	3	50	C-780 DOUBLE OVEN	8	
9	SPARE	20	1		0		4,804		4,804						10
11	SPARE	20	1		0			4,804	4,804						12
13	SPACE ONLY				0	4,804			4,804	8	3	50	C-780 DOUBLE OVEN	14	
15	SPACE ONLY				0		4,804		4,804						16
17	SPACE ONLY				0			4,804	4,804						18
19	SPACE ONLY				0	2,760			2,760	10	3	30	C-730 3-PANTENS GRILL	20	
21	SPACE ONLY				0		2,760		2,760						22
23	SPACE ONLY				0			2,760	2,760						24
25	SPACE ONLY				0	0			0				SPACE ONLY	26	
27	SPACE ONLY				0		0		0				SPACE ONLY	28	
29	SPACE ONLY				0		0		0				SPACE ONLY	30	
PER PHASE SUB-TOTALS					16,448	15,212	15,007	LEGEND:							
TOTAL CONNECTED PANELBOARD (VA)					46,666			TS - VIA TIME SWITCH							
TOTAL CONNECTED PANELBOARD (AMPS)					130			GF - GROUND FAULT INTERRUPTER							
TOTAL PANELBOARD DEMAND (VA)					36,733			FA - FIRE ALARM / RED / LOCKING TAB							
TOTAL PANELBOARD DEMAND (AMPS)					122			EM - EMERGENCY LIG / LOCKING TAB							
								SL - SHUNT TRIP							
								LK - LOCKING TAB							
								IG - ISOLATED GROUND LUG							
								OL - REC ONE-LINE DIAGRAM							

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: The Melt - Davis CA

Report Page: (Page 1 of 10)

Project Address:

Date Prepared: 2024-07-15T13:17:35-04:00

A. GENERAL INFORMATION

01 Project Location (city)

Davis

04 Total Conditioned Floor Area (ft²)

3,000

02 Climate Zone

12

05 Total Unconditioned Floor Area (ft²)

0

03 Occupancy Types Within Project (select all that apply):

06 # of Stories (Habitable Above Grade)

1

• Restaurant

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work

Conditioned Spaces

Unconditioned Spaces

01

02

03

04

05

My Project Consists of (check all that apply):

Calculation Method

Area (ft²)

Calculation Method

Area (ft²)

☒ New Lighting System

Area Category And Tailored Method

3000

N/A

0

☐ New Lighting System - Parking Garage

N/A

0

N/A

0

Total Area of Work (ft²)

3000

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 212167-0724-0005

Schema Version: rev 20220101

Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: The Melt - Davis CA

Report Page: (Page 4 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

G. MODULAR LIGHTING SYSTEMS

This table calculates wattage for modular lighting systems/ track lighting fixtures indicated on Table F and transfers wattage to Table F.

01

02

03

04

Name or Item Tag

Complete Track Description

Calculation Method per 130.0(c)6

Track Wattage

T1

Track Mounted Wall Wash

☐ i Installed Luminaires vs Default 30 W/ft²

☒ ii Current Limiter

☐ iii Overcurrent Protection Panel

☐ iv Power supplied by driver, power supply or transformer¹

VA of current limiter

60

T3

Track Mounted Accent Light

☐ i Installed Luminaires vs Default 30 W/ft²

☒ ii Current Limiter

☐ iii Overcurrent Protection Panel

☐ iv Power supplied by driver, power supply or transformer¹

VA of current limiter

60

¹FOOTNOTE: For power-over-Ethernet lighting systems, power provided to installed non-lighting devices may be subtracted from the total power rating of the power-over-Ethernet system.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01

02

03

Mandatory Demand Response 110.12(c)

Shut-off controls 130.1(c) / 160.5(b)4C

Field Inspector

NA < 4,000W subject to multilevel

Whole Building Auto Time Switch

Pass

Fail

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 212167-0724-0005

Schema Version: rev 20220101

Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: The Melt - Davis CA

Report Page: (Page 5 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04

05

06

07

08

09

10

11

12

Area Description

Complete Building or Area Category Primary Function Area

Manual Area Controls 130.1(a) / 160.5(b)4A

Multi-Level Controls 130.1(b) / 160.5(b)4B

Shut-Off Controls 130.1(c) // 160.5(b)4C

Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D

Secondary Daylighting 140.6(a)1/ 170.2(e)2A

Interlocked Systems 140.6(a)1/ 170.2(e)2A

Field Inspector

Dining Area

Dining - Fastfood

Auth. Personnel

Dimmer

Auto. Time Switch

NA: Overhang

NA: Overhang

No

Pass

Fail

Kitchen/ Food Preparation

Kitchen/ Food Preparation

Auth. Personnel

Dimmer

Auto. Time Switch

NA: Not daylight zone

NA: Not daylight zone

No

Pass

Fail

Restrooms

Restroom

Readily Accessible

NA: Restrooms

Occupancy Sensor

NA: Not daylight zone

NA: Not daylight zone

No

Pass

Fail

13

Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Conditioned Spaces

01

02

03

04

05

06

Area Description

Complete Building or Area Category Primary Function Area

Allowed Density (W/ft²)

Area (ft²)

Allowed Wattage (Watts)

Additional Allowance / Adjustment

Kitchen/ Food Preparation

Kitchen/ Food Preparation

0.95

1,038

986.1

No

Restrooms

Restroom

0.65

130

84.5

No

TOTALS:

1,168

1,070.6

See Tables J, or P for detail

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 212167-0724-0005

Schema Version: rev 20220101

Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: The Melt - Davis CA

Report Page: (Page 2 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Modular (Track) Fixture

Small Aperture & Color Change¹

Watts per luminaire²

How is Wattage determined

Total Number of Luminaires

Excluded per 140.6(a)3 / 170.2(e)2C

Design Watts

Field Inspector

P1/P1E

Suspended Cylinder Downlight

No

NA

11

Mfr. Spec

55

No

605

Pass

Fail

L1

Surface Mounted Linear

No

NA

16

Mfr. Spec

1

No

16

Pass

Fail

L2

Flexible Tape Light

No

NA

63

Mfr. Spec

1

No

63

Pass

Fail

R1/R1E

6" Round LED Downlight

No

NA

32

Mfr. Spec

17

No

544

Pass

Fail

R2

2" Round Downlight

No

Used in Nonres occupancy

12

Mfr. Spec

8

No

76.8

Pass

Fail

R3/R3E

2x4 LED Troffer

No

NA

53.7

Mfr. Spec

12

No

644.4

Pass

Fail

T1

Track Mounted Wall Wash

Yes

NA

60

See Other Section

1

No

60

Pass

Fail

T3

Track Mounted Accent Light

Yes

NA

60

See Other Section

2

No

120

Pass

Fail

YP1

Decorative Pendant

No

NA

9

Other

8

No

72

Pass

Fail

YP2

Decorative Linear Pendant

No

NA

54

Other

1

No

54

Pass

Fail

Total Designed Watts: CONDITIONED SPACES

2,255.2

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 212167-0724-0005

Schema Version: rev 20220101

Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: The Melt - Davis CA

Report Page: (Page 6 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This table includes areas using the Tailored Method per 140.6(c)3 / 170.2(e)4B. If additional Tailored Method "use it or lose it" allowances are used it is also indicated. Lighting that qualifies for one of the additional allowances shall not qualify for another additional allowance.

Conditioned Spaces

General Lighting Power Allowance Table K(below)

Additional "Use it or lose it" Allowance (Watts)

1

Table L

Table M

Table N

Table O

1073.15

0

201.3

180

0

1454.45

Calculated General Lighting Power Allowance

02

03

04

05

06

07

08

09

Area Description (per room)

Primary Function Area per Table 140.6-D/ 170.2-H

Illuminance Value (LUX)

Room Configuration

Allowed Density (W/ft²)

Area (ft²)

Extra Allowance (Watts)

Power Adjustment (See Table P) PAF

Dining Area

Dining Area

200 lux

Non-Rectangular

0.65

1651

1073.15

Pass

Fail

Not Applicable

Perimeter (ft)

Height (ft)¹

Room Cavity Ratio (RCR)

183

19

5.26

Total General Power Allowance CONDITIONED SPACES:

1073.15

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 212167-0724-0005

Schema Version: rev 20220101

Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: The Melt - Davis CA

Report Page: (Page 3 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Modular (Track) Fixture

Small Aperture & Color Change¹

Watts per luminaire²

How is Wattage determined

Total Number of Luminaires

Excluded per 140.6(a)3 / 170.2(e)2C

Design Watts

Field Inspector

P1/P1E

Suspended Cylinder Downlight

No

NA

11

Mfr. Spec

55

No

605

Pass

Fail

L1

Surface Mounted Linear

No

NA

16

Mfr. Spec

1

No

16

Pass

Fail

L2

Flexible Tape Light

No

NA

63

Mfr. Spec

1

No

63

Pass

Fail

R1/R1E

6" Round LED Downlight

No

NA

32

Mfr. Spec

17

No

544

Pass

Fail

R2

2" Round Downlight

No

Used in Nonres occupancy

12

Mfr. Spec

8

No

76.8

Pass

Fail

R3/R3E

2x4 LED Troffer

No

NA

53.7

Mfr. Spec

12

No

644.4

Pass

Fail

T1

Track Mounted Wall Wash

Yes

NA

60

See Other Section

1

No

60

Pass

Fail

T3

Track Mounted Accent Light

Yes

NA

60

See Other Section

2

No

120

Pass

Fail

YP1

Decorative Pendant

No

NA

9

Other

8

No

72

Pass

Fail

YP2

Decorative Linear Pendant

No

NA

54

Other

1

No

54

Pass

Fail

Total Designed Watts: CONDITIONED SPACES

2,255.2

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 212167-0724-0005

Schema Version: rev 20220101

Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: The Melt - Davis CA

Report Page: (Page 5 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04

05

06

07

08

09

10

11

12

Area Description

Complete Building or Area Category Primary Function Area

Manual Area Controls 130.1(a) / 160.5(b)4A

Multi-Level Controls 130.1(b) / 160.5(b)4B

Shut-Off Controls 130.1(c) // 160.5(b)4C

Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D

Secondary Daylighting 140.6(a)1/ 170.2(e)2A

Interlocked Systems 140.6(a)1/ 170.2(e)2A

Field Inspector

Dining Area

Dining - Fastfood

Auth. Personnel

Dimmer

Auto. Time Switch

NA: Overhang

NA: Overhang

No

Pass

Fail

Kitchen/ Food Preparation

Kitchen/ Food Preparation

Auth. Personnel

Dimmer

Auto. Time Switch

NA: Not daylight zone

NA: Not daylight zone

No

Pass

Fail

Restrooms

Restroom

Readily Accessible

NA: Restrooms

Occupancy Sensor

NA: Not daylight zone

NA: Not daylight zone

No

Pass

Fail

13

Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Conditioned Spaces

01

02

03

04

05

06

Area Description

Complete Building or Area Category Primary Function Area

Allowed Density (W/ft²)

Area (ft²)

Allowed Wattage (Watts)

Additional Allowance / Adjustment

Kitchen/ Food Preparation

Kitchen/ Food Preparation

0.95

1,038

986.1

No

Restrooms

Restroom

0.65

130

84.5

No

TOTALS:

1,168

1,070.6

See Tables J, or P for detail

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 212167-0724-0005

Schema Version: rev 20220101

Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: The Melt - Davis CA

Report Page: (Page 1 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

A. GENERAL INFORMATION

01 Project Location (city)

Davis

04 Total Conditioned Floor Area (ft²)

3,000

02 Climate Zone

12

05 Total Unconditioned Floor Area (ft²)

0

03 Occupancy Types Within Project (select all that apply):

06 # of Stories (Habitable Above Grade)

1

• Restaurant

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work

Conditioned Spaces

Unconditioned Spaces

01

02

03

04

05

My Project Consists of (check all that apply):

Calculation Method

Area (ft²)

Calculation Method

Area (ft²)

☒ New Lighting System

Area Category And Tailored Method

3000

N/A

0

☐ New Lighting System - Parking Garage

N/A

0

N/A

0

Total Area of Work (ft²)

3000

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 212167-0724-0005

Schema Version: rev 20220101

Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: The Melt - Davis CA

Report Page: (Page 4 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

G. MODULAR LIGHTING SYSTEMS

This table calculates wattage for modular lighting systems/ track lighting fixtures indicated on Table F and transfers wattage to Table F.

01

02

03

04

Name or Item Tag

Complete Track Description

Calculation Method per 130.0(c)6

Track Wattage

T1

Track Mounted Wall Wash

☐ i Installed Luminaires vs Default 30 W/ft²

☒ ii Current Limiter

☐ iii Overcurrent Protection Panel

☐ iv Power supplied by driver, power supply or transformer¹

VA of current limiter

60

T3

Track Mounted Accent Light

☐ i Installed Luminaires vs Default 30 W/ft²

☒ ii Current Limiter

☐ iii Overcurrent Protection Panel

☐ iv Power supplied by driver, power supply or transformer¹

VA of current limiter

60

¹FOOTNOTE: For power-over-Ethernet lighting systems, power provided to installed non-lighting devices may be subtracted from the total power rating of the power-over-Ethernet system.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01

02

03

Mandatory Demand Response 110.12(c)

Shut-off controls 130.1(c) / 160.5(b)4C

Field Inspector

NA < 4,000W subject to multilevel

Whole Building Auto Time Switch

Pass

Fail

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 212167-0724-0005

Schema Version: rev 20220101

Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: The Melt - Davis CA

Report Page: (Page 2 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Modular (Track) Fixture

Small Aperture & Color Change¹

Watts per luminaire²

How is Wattage determined

Total Number of Luminaires

Excluded per 140.6(a)3 / 170.2(e)2C

Design Watts

Field Inspector

P1/P1E

Suspended Cylinder Downlight

No

NA

11

Mfr. Spec

55

No

605

Pass

Fail

L1

Surface Mounted Linear

No

NA

16

Mfr. Spec

1

No

16

Pass

Fail

L2

Flexible Tape Light

No

NA

63

Mfr. Spec

1

No

63

Pass

Fail

R1/R1E

6" Round LED Downlight

No

NA

32

Mfr. Spec

17

No

544

Pass

Fail

R2

2" Round Downlight

No

Used in Nonres occupancy

12

Mfr. Spec

8

No

76.8

Pass

Fail

R3/R3E

2x4 LED Troffer

No

NA

53.7

Mfr. Spec

12

No

644.4

Pass

Fail

T1

Track Mounted Wall Wash

Yes

NA

60

See Other Section

1

No

60

Pass

Fail

T3

Track Mounted Accent Light

Yes

NA

<

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 7 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

01	02	03	04	05	06	07	08	09	10	11	
Area Description	CALCULATED ALLOWANCE (Watts)			Luminaire Name or Item Tag	DESIGN WATTS					Additional Allowance (Watts)	
	Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)		Mounting Height (ft)	Mounting Height Factor	Watts per Luminaire	# of Luminaires	Total Design Watts		
Dining Area	400	0.45	180	YP1	10'7" to 14'	0.85	9	8	72		
				L1	10'7" to 14'	0.85	16	1	16		
				L2	< 10'-7"	1	63	1	63		
YP2	10'7" to 14'	0.85	54	1	54						
Total Design Watts for this Area:										205	201.3
Total Additional Allowance (Watts) CONDITIONED SPACES:											201.3

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 8 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

01	02	03	04	05	06	07	08	09	
Area Description	CALCULATED ALLOWANCE (Watts)			Luminaire Name or Item Tag	DESIGN WATTS			Additional Allowance (Watts)	
	Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)		Watts per Luminaire	# of Luminaires	Total Design Watts		
Dining Area	600	0.35	210	T1 T3	60 60	1 2	60 120		
Total Design Watts for this Area:								180	180
Total Additional Allowance (Watts) CONDITIONED SPACES:									180

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This table includes all areas indicated in Table I or Table K as using a PAF credit described in 140.6(a)2 / 170.2(e)2B.

¹ FOOTNOTES: PAFs outlined in Table 140.6-A /170.2-L include 1) Daylight continuous dimming plus OFF; 2A) Occupant sensors in offices with one sensor per <= 125 ft²; 2B) Occupant sensors in offices with one sensor per 126 - 250 ft²; 3A) Institutional tuning, non-daylit areas and 3B) Institutional tuning, daylit areas; 4) Demand response; 5) Clerestory fenestration; 6) Horizontal slats; 7) Light shelves.

² Luminaires that qualify for PAF 5, 6, or 7 can be used in conjunction with PAF 1.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 9 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title

Systems/Spaces To Be Field Verified

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

Dining Area; Kitchen/ Food Preparation ; Restrooms

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 10 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Beth Clarkson

Documentation Author Signature: 

Company: Acertus Consulting Group

Signature Date: 07/15/24

Address: 11880 College Blvd, Ste 475

CEA/ HERS Certification Identification (if applicable):

City/State/Zip: Overland Park, KS 66210

Phone: 913-322-5150

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

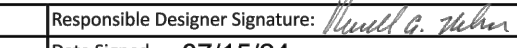
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Randall Nelson

Responsible Designer Signature: 

Company: Acertus Consulting Group

Date Signed: 07/15/24

Address: 11880 College Blvd.

License: E-18165

City/State/Zip: Overland Park, KS 66210

Phone: 913-322-5150

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 10 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Beth Clarkson

Documentation Author Signature: 

Company: Acertus Consulting Group

Signature Date: 07/15/24

Address: 11880 College Blvd, Ste 475

CEA/ HERS Certification Identification (if applicable):

City/State/Zip: Overland Park, KS 66210

Phone: 913-322-5150

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

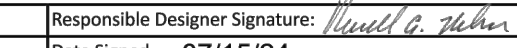
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Randall Nelson

Responsible Designer Signature: 

Company: Acertus Consulting Group

Date Signed: 07/15/24

Address: 11880 College Blvd.

License: E-18165

City/State/Zip: Overland Park, KS 66210

Phone: 913-322-5150

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 9 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title

Systems/Spaces To Be Field Verified

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

Dining Area; Kitchen/ Food Preparation ; Restrooms

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 7 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

01	02	03	04	05	06	07	08	09	10	11	
Area Description	CALCULATED ALLOWANCE (Watts)			Luminaire Name or Item Tag	DESIGN WATTS					Additional Allowance (Watts)	
	Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)		Mounting Height (ft)	Mounting Height Factor	Watts per Luminaire	# of Luminaires	Total Design Watts		
Dining Area	400	0.45	180	YP1	10'7" to 14'	0.85	9	8	72		
				L1	10'7" to 14'	0.85	16	1	16		
				L2	< 10'-7"	1	63	1	63		
YP2	10'7" to 14'	0.85	54	1	54						
Total Design Watts for this Area:										205	201.3
Total Additional Allowance (Watts) CONDITIONED SPACES:											201.3

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 8 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

01	02	03	04	05	06	07	08	09	
Area Description	CALCULATED ALLOWANCE (Watts)			Luminaire Name or Item Tag	DESIGN WATTS			Additional Allowance (Watts)	
	Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)		Watts per Luminaire	# of Luminaires	Total Design Watts		
Dining Area	600	0.35	210	T1 T3	60 60	1 2	60 120		
Total Design Watts for this Area:								180	180
Total Additional Allowance (Watts) CONDITIONED SPACES:									180

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This table includes all areas indicated in Table I or Table K as using a PAF credit described in 140.6(a)2 / 170.2(e)2B.

¹ FOOTNOTES: PAFs outlined in Table 140.6-A /170.2-L include 1) Daylight continuous dimming plus OFF; 2A) Occupant sensors in offices with one sensor per <= 125 ft²; 2B) Occupant sensors in offices with one sensor per 126 - 250 ft²; 3A) Institutional tuning, non-daylit areas and 3B) Institutional tuning, daylit areas; 4) Demand response; 5) Clerestory fenestration; 6) Horizontal slats; 7) Light shelves.

² Luminaires that qualify for PAF 5, 6, or 7 can be used in conjunction with PAF 1.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 9 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title

Systems/Spaces To Be Field Verified

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

Dining Area; Kitchen/ Food Preparation ; Restrooms

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 7 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

01	02	03	04	05	06	07	08	09	10	11	
Area Description	CALCULATED ALLOWANCE (Watts)			Luminaire Name or Item Tag	DESIGN WATTS					Additional Allowance (Watts)	
	Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)		Mounting Height (ft)	Mounting Height Factor	Watts per Luminaire	# of Luminaires	Total Design Watts		
Dining Area	400	0.45	180	YP1	10'7" to 14'	0.85	9	8	72		
				L1	10'7" to 14'	0.85	16	1	16		
				L2	< 10'-7"	1	63	1	63		
YP2	10'7" to 14'	0.85	54	1	54						
Total Design Watts for this Area:										205	201.3
Total Additional Allowance (Watts) CONDITIONED SPACES:											201.3

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 8 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

01	02	03	04	05	06	07	08	09	
Area Description	CALCULATED ALLOWANCE (Watts)			Luminaire Name or Item Tag	DESIGN WATTS			Additional Allowance (Watts)	
	Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)		Watts per Luminaire	# of Luminaires	Total Design Watts		
Dining Area	600	0.35	210	T1 T3	60 60	1 2	60 120		
Total Design Watts for this Area:								180	180
Total Additional Allowance (Watts) CONDITIONED SPACES:									180

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This table includes all areas indicated in Table I or Table K as using a PAF credit described in 140.6(a)2 / 170.2(e)2B.

¹ FOOTNOTES: PAFs outlined in Table 140.6-A /170.2-L include 1) Daylight continuous dimming plus OFF; 2A) Occupant sensors in offices with one sensor per <= 125 ft²; 2B) Occupant sensors in offices with one sensor per 126 - 250 ft²; 3A) Institutional tuning, non-daylit areas and 3B) Institutional tuning, daylit areas; 4) Demand response; 5) Clerestory fenestration; 6) Horizontal slats; 7) Light shelves.

² Luminaires that qualify for PAF 5, 6, or 7 can be used in conjunction with PAF 1.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 9 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title

Systems/Spaces To Be Field Verified

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

Dining Area; Kitchen/ Food Preparation ; Restrooms

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 212167-0724-0005 Report Generated: 2024-07-15 10:17:37

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 7 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

01	02	03	04	05	06	07	08	09	10	11	
Area Description	CALCULATED ALLOWANCE (Watts)			Luminaire Name or Item Tag	DESIGN WATTS					Additional Allowance (Watts)	
	Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)		Mounting Height (ft)	Mounting Height Factor	Watts per Luminaire	# of Luminaires	Total Design Watts		
Dining Area	400	0.45	180	YP1	10'7" to 14'	0.85	9	8	72		
				L1	10'7" to 14'	0.85	16	1	16		
				L2	< 10'-7"	1	63	1	63		
YP2	10'7" to 14'	0.85	54	1	54						
Total Design Watts for this Area:										205	201.3
Total Additional Allowance (Watts) CONDITIONED SPACES:											201.3

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: The Melt - Davis CA

Report Page: (Page 8 of 10)

Date Prepared: 2024-07-15T13:17:35-04:00

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

01	02	03	04	05	06	07	08	09	
Area Description	CALCULATED ALLOWANCE (Watts)			Luminaire Name or Item Tag	DESIGN WATTS			Additional Allowance (Watts)	
	Area (ft²)	Allowed Density (W/ft²)	Extra Allowance (Watts)		Watts per Luminaire	# of Luminaires	Total Design Watts		
Dining Area	600	0.35	210	T1 T3	60 60	1 2	60 120		
Total Design Watts for this Area:								180	180
Total Additional Allowance (Watts) CONDITIONED SPACES:									180

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This table includes all areas indicated in Table I or Table K as using a PAF credit described in 140.6(a)2 / 170.2(e)2B.

¹ FOOTNOTES: PAFs outlined in Table 140.6-A /170.2-L include 1) Daylight continuous dimming plus OFF; 2A) Occupant sensors in offices with one sensor per <= 125 ft²; 2B) Occupant sensors in offices with one sensor per 126 - 250 ft²; 3A) Institutional tuning, non-daylit areas and 3B) Institutional tuning

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	--

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	--	--

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

P

O

N

M

L

K

JH

G

FEDCB

A

PLUMBING LEGEND					
SYMBOL		DESCRIPTION		ABBREVIATIONS	
	GATE VALVE		FLOOR DRAIN / AREA DRAIN	AD	AREA DRAIN, ACCESS DOOR
	CHECK VALVE		FLOOR SINK	AFC	ABOVE FINISH CEILING
	PRESSURE		ROOF DRAIN	AFG	ABOVE FINISH GRADE
	SOLENOID VALVE		RD	AHU	AIR HANDLING UNIT
	GLOBE VALVE (STRAIGHT PATTERN)		ORD	BFP	BACKFLOW PREVENTER
	BUTTERFLY VALVE		HOT WATER RECIRCULATION PUMP	BOP	BOTTOM OF PIPE
	BALL VALVE		PLUMBING VEVT THRU ROOF	BOS	BOTTOM OF STRUCTURE
	GAS COCK		POINT OF CONNECTION (CONNECT NEW TO EXISTING)	CD	CONDENSATE
	PLUG VALVE		PLUMBING EQUIPMENT DESIGNATION	CO	CLEANOUT
	FLOOR CLEAN OUT		PLUMBING RISER OR DETAIL DESIGNATION	CW	DOMESTIC COLD WATER
	WALL CLEAN OUT		SANITARY SEWER PIPING	DD	DECK DRAIN
	CLEAN OUT		STORM SEWER PIPING	DN	DOWN
	HOSE BIBB		VENT PIPING	E	EXISTING
	FREEZE PROOF WALL HYDRANT		COLD WATER PIPING	ETR	EXISTING TO REMAIN
	SHOWER HEAD		HOT WATER PIPING	FCO	FLOOR CLEANOUT
	ELBOW DOWN		COLD WATER PIPING (BELOW SLAB)	FFA	FROM FLOOR ABOVE
	ELBOW UP		REVISION	FP	FIRE PROTECTION
	TEE UP		HOT WATER RECIRCULATING PIPING	FS	FLOOR SINK
	TEE DOWN		FILTERED WATER PIPING	G	GAS (NATURAL)
	STRAINER		FILTERED WATER PIPING BELOW GRADE	GCO	GRADE CLEANOUT
	UNION		GAS PIPING	GPM	GALLONS PER MINUTE
	REDUCER		CONDENSATE PIPING	HB	HOSE BIBB
	CAP			HW	DOMESTIC HOT WATER
	FLEX PIPE			HWR	HOT WATER RETURN
				HWS	HOT WATER SUPPLY
				IE	INVERT ELEVATION
				LP	LIQUIFIED PETROLEUM
				MBH	1000 BTU PER HOUR
				N/A	NOT APPLICABLE
				ORD	OVERFLOW ROOF DRAIN
				OST	STORM OVERFLOW
				PD	PUMP DISCHARGE
				PIV	POST INDICATOR VALVE
				PRV	PRESSURE REDUCING VALVE
				REV	REVISION
				RPM	REVOLUTIONS PER MINUTE
				RTU	ROOF TOP UNIT
				SAN	SANITARY
				SCW	SOFT DOMESTIC COLD WATER
				SHW	SOFT DOMESTIC HOT WATER
				SDHWR	SOFT RECIRC. HOT WATER
				ST	STORM
				TFA	TO FLOOR ABOVE
				TFB	TO FLOOR BELOW
				TW	TEMPERED WATER
				UH	UNIT HEATER
				V	VENT PIPE
				VTR	VENT THROUGH ROOF
				WCO	WALL CLEANOUT
				WH	WALL HYDRANT

PLUMBING GENERAL NOTES:

1. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN CONFORMANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES HAVING JURISDICTION AND INSPECTION.
2. COORDINATE THE COMPLETE INSTALLATION OF SYSTEMS TO AVOID CONFLICT WITH OTHER TRADES.
3. PROVIDE TO OWNER A COPY OF ALL REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS AND ALL PLUMBING SYSTEMS EQUIPMENT MANUALS INCLUDING WARRANTIES.
4. COORDINATE ALL ABOVE SLAB AND UNDER SLAB SANITARY, AND WATER PIPING SYSTEMS TO AVOID CONFLICT WITH ALL OTHER TRADES SYSTEMS, AND COLUMN FOOTINGS. ALL SOIL AND WASTE PIPING SHALL BE GRADED TO A UNIFORM SLOPE OF NOT LESS THAN 1/4" PER FOOT, PER CPC 708.1.
5. COORDINATE ALL FLOOR DRAINS, CLEANOUTS, AND FLOOR MOUNTED FIXTURES WITH FINISHED FLOOR SLAB ELEVATION TO ENSURE THEY ARE INSTALLED PLUM AND FLUSH WITHOUT CRACKS, RISE IN THE SLAB, OR VOIDS AROUND GRATES OR TOPS. ALL CLEANOUTS SHALL BE INSTALLED ALONG MAINS AT 5'-0" DISTANCE MAXIMUM. ALL FLOOR AND WALL CLEANOUTS SHALL BE ACCESSIBLE FOR MAINTENANCE AND NOT INSTALLED BENEATH EQUIPMENT. ANY DRAIN GRATES THAT ARE DAMAGED AS A RESULT OF OTHER CONSTRUCTION PRIOR TO RELEASE OF THE BUILDING TO THE OWNER SHALL BE REPLACED WITH LIKE GRATE AT NO EXPENSE OF THE OWNER.
6. PROVIDE TRAP AND SEAL PRIMERS ON ALL FLOOR DRAINS IF REQUIRED BY CODE OR OWNER.
7. PLUMBING VENTS THROUGH THE ROOF ARE LOCATED AT A MINIMUM OF 5'-0" FROM BUILDING PARAPETS AND 10'-0" FROM FRESH AIR INTAKES AND AS REQUIRED TO MEET LOCAL CODES.
8. ALL SHUT-OFF OR BALANCING VALVES TO PLUMBING ROUTED IN PIPE CHASES SHALL BE ACCESSIBLE FROM CEILING AREA OR ACCESS DOORS PROVIDED IN WALL.
9. ALL EXPOSED PIPES PENETRATING FINISHED WALLS SHALL BE EQUIPPED WITH WALL ESCUTCHEONS.
10. PROVIDE FINAL CONNECTIONS FOR ALL EQUIPMENT SPECIFIED IN PLUMBING FIXTURES AND EQUIPMENT SCHEDULES ON THESE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. PROVIDE ALL REQUIRED SHUT-OFFS, BACKFLOW PREVENTERS, PRESSURE REGULATORS, AND CONDENSATE DRAINS INDICATED ON PLUMBING SCHEDULES AND AS REQUIRED BY LOCAL CODES OR COMPLETE EQUIPMENT INSTALLATION. CONSULT EQUIPMENT SUPPLIER OR OWNER FOR ADDITIONAL FINAL CONNECTION REQUIREMENTS NOT SHOWN ON THESE DRAWINGS.

FOOD SERVICE EQUIPMENT SCHEDULE	
TAG	DESCRIPTION
C-700	FOUR BASKET FRYER
C-720	TWO PLATEN GRILL
C-730	THREE PLATEN GRILL
C-870	RETHERMALIZER
C-880	ICED TEA BREWER
C-890	HOT WATER DISPENSER
C-900	SOFT SERVE ICE CREAM DISPENSER
N-051	WALL MOUNTED HAND SINK
N-070	WATER FILTRATION SYSTEM
N-075	MOP SINK
N-110	PREP SINK
N-145	THREE COMPARTMENT SINK
S-925	ICE MACHINE
S-950	CARBONATOR

BACKFLOW PREVENTER SCHEDULE			
FIXTURE	TAG	MODEL	ASSE
RETHERMALIZER	C-870	WATTS SD-3	1024
ICE/SODA DISPENSER	S-925	WATTS LF-009	1022
CARBONATOR	S-950	WATTS LF-009	1013
ICED TEA BREWER	C-880	WATTS SD-3	1022

NOTE:
 CERTIFY ALL TESTABLE BACKFLOW PREVENTERS AND PROVIDE COPIES OF
 THE BACKFLOW PREVENTER TEST CERTIFICATIONS.

PLUMBING FIXTURE SCHEDULE							
ITEM	MANUFACTURER	MODEL	DRAIN	VENT	COLD WATER	HOT WATER	DESCRIPTION
BF-1	WATTS	SD-3	---	---	PER PLAN	---	DUAL CHECK BACKFLOW PREVENTER. ASSE 1024.
BF-2	WATTS	LF-009	---	---	PER PLAN	---	REDUCED PRESSURE ZONE ASSEMBLY. LEAD FREE. ASSE 1013.
ET	AMTROL	ST-5	---	---	3/4"	---	EXPANSION TANK 2 GALLONS. ACCEPTANCE VOLUME 0.45 GALLONS. STEEL SHELL, NSF/ANSI 61, FACTOR PRECHARGED 40 PSIG. MAX OPERATING TEMP 100°F/ MAX OPERATION PRESSURE 150 PSI INSTALL PER MANUFACTURER'S INSTRUCTIONS.
GWH-1,2	NAVIENT	NPE-240S	---	---	1-1/4"	1-1/4"	INSTANTANEOUS WATER HEATER, NATURAL GAS 199 MBH. PROVIDE WITH VENT KIT AS REQUIRED, PEAKFLOW WATER CONDITIONING, AND CONDENSATE NEUTRALIZATION KIT. 6.5 GPM EACH AT 60°F RISE. TOTAL 13 GPM. 120V, 60HZ. 97% EFFICIENT. PROVIDE CASCADE CABLE AND JUMPERS TO CONNECT WATER HEATER TO MODULATE OPERATION AS ONE HOT WATER SOURCE.
GPR	NORGAS	N5-SERIES	---	---	---	---	GAS PRESSURE REGULATOR. PROVIDE WITH VENT LIMITER, FOR INDOOR USE. INLET PRESSURE AT 2 PSI, OUTLET 7" W.C.
FCO	JAY R. SMITH	4023S-FC	---	---	---	---	CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP.
FD-1	JAY R. SMITH	2030-A5	3"	2"	---	---	NICKEL BRONZE FLOOR DRAIN WITH ADJUSTABLE STRAINER HEADS. PROVIDE WITH TRAP PRIMER EQUAL TO PPP PR-500 FOR ALL FLOOR DRAINS.
FS-1	JAY R. SMITH	330-Y03-12	3"	2"	---	---	12" SQUARE BODY LESS FLANGE, 8" DEEP. CAST IRON RECEPTOR WITH ACID RESISTANT COATED INTERIOR. BODY INCLUDES ANTI-SPLASH DOME STRAINER. PROVIDE WITH JAY R. SMITH 320-12 ONE PIECE, 1/2 GRATE
FS-2	JAY R. SMITH	340-Y04-12	4"	2"	---	---	12" SQUARE BODY LESS FLANGE, 10" DEEP. CAST IRON RECEPTOR WITH ACID RESISTANT COATED INTERIOR. BODY INCLUDES ANTI-SPLASH DOME STRAINER. PROVIDE WITH JAY R. SMITH 320-12 ONE PIECE, 1/2 GRATE
L-1	AMERICAN STANDARD	321.026	2"	1-1/2"	1/2"	1/2"	18-1/2" X 17" WALL HUNG LAVATORY WITH FAUCET LEDGE, FAUCET HOLES ON 4" CENTERS, & WALL HANGER. FAUCET SHALL BE MOEN MODEL 8422F05 4" SINGLE HANDLE LAVATORY FAUCET, WITH RIGID SPOUT, 0.5 GPM MULTILAMINAR FLOW RATE. CHROME. PROTECT TRAP AND SUPPLIES WITH A TRAP WRAP KIT 500R AS MANUFACTURED BY BROCAR. LAVATORY MOUNTING HEIGHT SHALL BE AS DETAILED ON ARCHITECTURAL DRAWINGS. PROVIDE TMV-1 SET TO 105°F OUTLET TEMPERATURE.
RP	TACO	007-BF5	---	---	---	1/2"	IN-LINE CARTRIDGE STYLE CIRCULATOR PUMP. CAPABLE OF 10 FEET OF HEAD AT 3 GPM PROVIDE WITH HONEYWELL L6006C AQUASTAT.
S-1	T&S	B-0831-WA	---	---	1/2"	1/2"	PREP SINK METERING FAUCET, DECK MOUNT, 4" CENTERS, 2.2GPM AERATOR, 4" WRIST ACTION HANDLES.
S-2	T&S T&S T&S T&S	B-0133-B B-0155-LN 066X B-3950	---	---	PER PLAN PER PLAN PER PLAN ---	PER PLAN PER PLAN PER PLAN ---	PRE RINSE FAUCET, 8" WALL MOUNT MIXING FAUCET. 1.15 GPM SPRAY VALVE. ADD ON FAUCET WITH LEVER HANDLE. 12" DOUBLE JOINT SWING NOZZLE, 6" BACK AND 6" FRONT SECTION. WASTE DRAIN VALVE, TWIST HANDLE. (PROVIDE QUANTITY x3)
TMV	PRECISION PLUMBING PRODUCTS	PTMV-50070	---	---	---	---	THERMOSTATIC MIXING VALVE ASSE 1070, 1/2" SWEAT WITH CHECK VALVES. MINIMUM 0.34 GPM FLOW RATE. POINT OF USE. TAMPER-PROOF TEMPERATURE SETTING.
WC-1	AMERICAN STANDARD	2467.1	3"	2"	1/2"	---	FLOOR MOUNTED WATER CLOSET. CADET RIGHT HEIGHT ADA 16-1/2"H ELONGATED 1.1 GPF PRESSURE-ASSISTED TOILET WITH FLUSHOMETER TANK. PLASTIC SEAT WHITE - OPEN FRONT, LESS COVER.
WCO	JAY R. SMITH	4531S	PER PLAN	---	---	---	CAST IRON CLEANOUT TEE AND COUNTERSUNK PLUG
WM	BADGER	MODEL 55	PER PLAN	---	---	---	RECORDALL DISC METER 1 INCH. MAXIMUM CONTINUOUS OPERATION 40 GPM.

REGISTERED PROFESSIONAL ENGINEER
 CHARLES C. FREEMAN
 No. M-33819
 Exp. 06-30-25
 MECHANICAL
 STATE OF CALIFORNIA

SIGNATURE DATE: 01/16/2024

Mech. Engineer of Record
 Charles C. Freeman, P.E.

11880 COLLEGE BLVD. STE 475
 OVRLEAF PARK, CA 94010
 P 913 922 5150
 F 913 242 1019

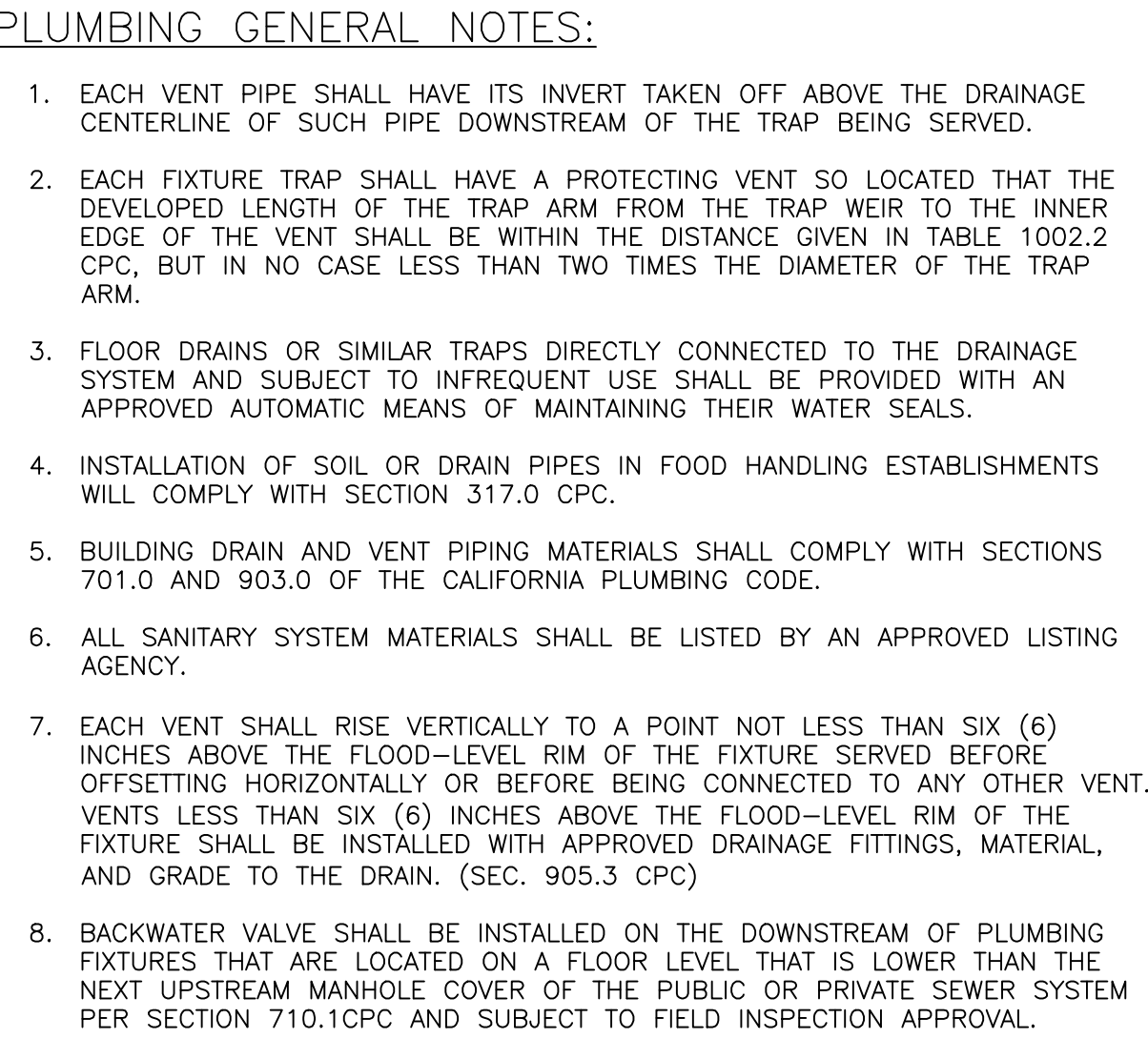
the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

[illegible]

SHEET TITLE:
PLUMBING SCHEDULES AND LEGENDS

SHEET NUMBER:
P1.0

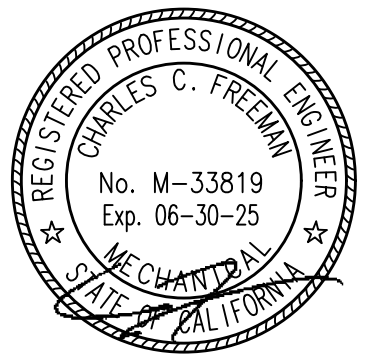
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----



1. CONNECT NEW 4" SANITARY SEWER LINE TO EXISTING 4" SANITARY SEWER MAIN. FIELD VERIFY EXACT LOCATION OF SANITARY SEWER SUBST. OUT.
2. CONNECT NEW 4" GREASE WASTE LINE TO EXISTING 4" GREASE WASTE MAIN. FIELD VERIFY EXACT LOCATION OF GREASE WASTE SUBST. OUT.
3. PROVIDE 3" VTR, COORDINATE WITH LANDLORD PROVIDED PROVIDED ROOF PENETRATION. LOCATION TO BE 10' AWAY FROM MECHANICAL AIR INTAKES PER CODE.
4. ROUTE 3/4" CONDENSATE LINE FROM COOLER EVAPORATOR TO FS-1. TERMINATE WITH AIR GAP ABOVE DRAIN. REFER TO DETAIL 8 ON SHEET P5.0 FOR TERMINATION DETAILS.
5. ROUTE PRESSURE AND TEMPERATURE RELIEF DRAIN TO SERVICE SINK (N-075). PIPE SHALL DISCHARGE INDEPENDENTLY BY GRAVITY THROUGH AN AIR GAP ACCORDING TO 608.5 CPC.
6. PROVIDE 1-1/2" DRAIN LINE FROM SF-1 AND DISCHARGE INDIRECTLY VIA HUB DRAIN BELOW HAND SINK.
7. COORDINATE FLOOR SINK LOCATION WITH MILLWORK DRAWINGS.

GREASE WASTE CALCULATIONS			
FIXTURE	DFU	QTY	TOTAL (DFU)
3-COMPARTMENT SINK	3	1	3
PREP SINK	3	1	3
MOP SINK	3	1	3
HAND SINK	1	2	2
FLOOR DRAIN	2	1	2
FLOOR SINK	3	1	3
TOTAL GREASE WASTE			16
EXISTING 1500 GALLON INTERCEPTOR MAX LOAD (PER TABLE 1014.3.6, CPC)			172
EXISTING GREASE WASTE LOAD			0
ADDED GREASE WASTE LOAD			16
REMAINING GREASE WASTE LOAD AVAILABLE			147

1 PLUMBING SANITARY WASTE AND VENT PLAN
1/4"=1'-0"



SIGNATURE DATE: 01/16/2024

Mech. Engineer of Record
Charles C. Freeman, P.E.
11880 COLLEGE BLVD, STE 475
OVERLAND PARK, KS 66210
P 913 322 5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

theMELT

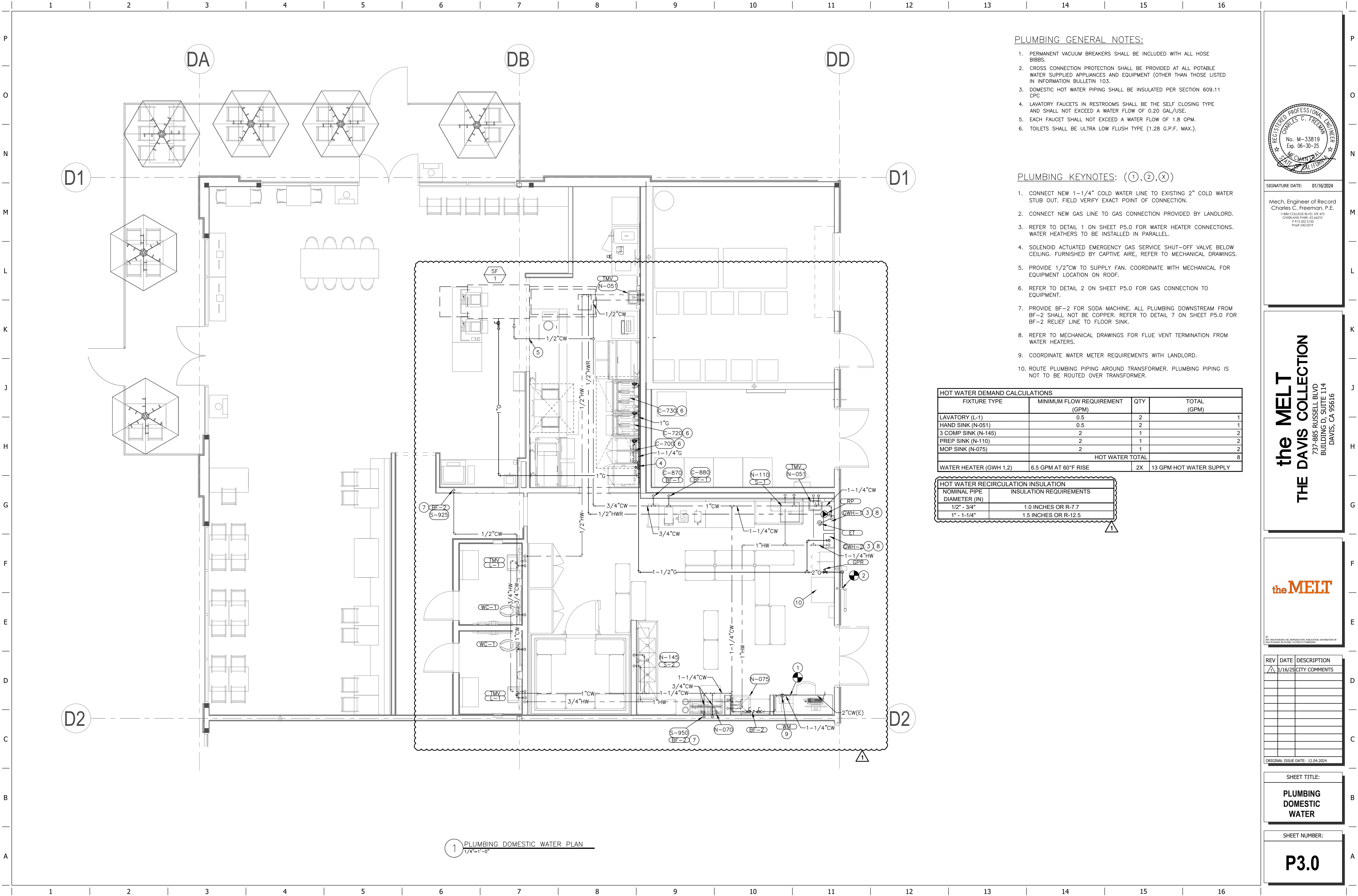
[illegible]

SHEET TITLE:

PLUMBING SANITARY

SHEET NUMBER

P2.0



PLUMBING GENERAL NOTES:

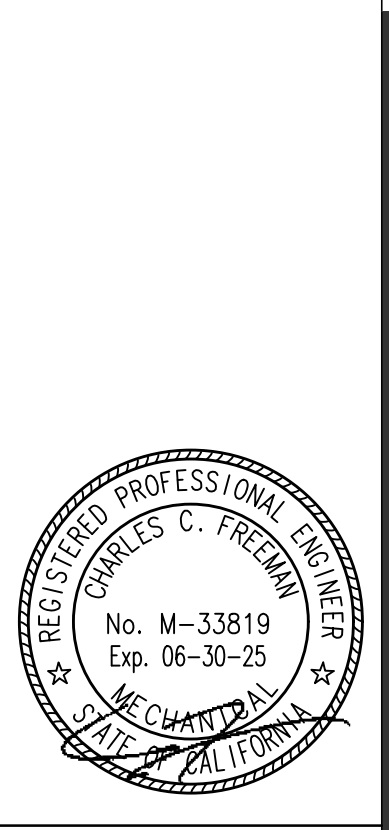
1. PERMANENT VACUUM BREAKERS SHALL BE INCLUDED WITH ALL HOSE BIBBS.
2. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103).
3. DOMESTIC HOT WATER PIPING SHALL BE INSULATED PER SECTION 609.11 CPC.
4. LAVATORY FAUCETS IN RESTROOMS SHALL BE THE SELF CLOSING TYPE AND SHALL NOT EXCEED A WATER FLOW OF 0.20 GAL/USE.
5. EACH FAUCET SHALL NOT EXCEED A WATER FLOW OF 1.8 GPM.
6. TOILETS SHALL BE ULTRA LOW FLUSH TYPE (1.28 G.P.F. MAX.).

PLUMBING KEYNOTES: (1, 2, X)

1. CONNECT NEW 1-1/4" COLD WATER LINE TO EXISTING 2" COLD WATER STUB OUT. FIELD VERIFY EXACT POINT OF CONNECTION.
2. CONNECT NEW GAS LINE TO GAS CONNECTION PROVIDED BY LANDLORD.
3. REFER TO DETAIL 1 ON SHEET P5.0 FOR WATER HEATER CONNECTIONS. WATER HEATHERS TO BE INSTALLED IN PARALLEL.
4. SOLENOID ACTUATED EMERGENCY GAS SERVICE SHUT-OFF VALVE BELOW CEILING. FURNISHED BY CAPTIVE AIRE, REFER TO MECHANICAL DRAWINGS.
5. PROVIDE 1/2"CW TO SUPPLY FAN. COORDINATE WITH MECHANICAL FOR EQUIPMENT LOCATION ON ROOF.
6. REFER TO DETAIL 2 ON SHEET P5.0 FOR GAS CONNECTION TO EQUIPMENT.
7. PROVIDE BF-2 FOR SODA MACHINE. ALL PLUMBING DOWNSTREAM FROM BF-2 SHALL NOT BE COPPER, REFER TO DETAIL 7 ON SHEET P5.0 FOR BF-2 RELIEF LINE TO FLOOR SINK.
8. REFER TO MECHANICAL DRAWINGS FOR FLUE VENT TERMINATION FROM WATER HEATERS.
9. COORDINATE WATER METER REQUIREMENTS WITH LANDLORD.
10. ROUTE PLUMBING PIPING AROUND TRANSFORMER. PLUMBING PIPING IS NOT TO BE ROUTED OVER TRANSFORMER.

HOT WATER DEMAND CALCULATIONS			
FIXTURE TYPE	MINIMUM FLOW REQUIREMENT (GPM)	QTY	TOTAL (GPM)
LAVATORY (L-1)	0.5	2	1
HAND SINK (N-051)	0.5	2	1
3 COMP SINK (N-145)	2	1	2
PREP SINK (N-110)	2	1	2
MOP SINK (N-075)	2	1	2
HOT WATER TOTAL			8
WATER HEATER (GWH 1,2)	6.5 GPM AT 60°F RISE	2X	13 GPM HOT WATER SUPPLY

HOT WATER RECIRCULATION INSULATION	
NOMINAL PIPE DIAMETER (IN)	INSULATION REQUIREMENTS
1/2" - 3/4"	1.0 INCHES OR R-7.7
1" - 1-1/4"	1.5 INCHES OR R-12.5



SIGNATURE DATE: 01/16/2024

Mech. Engineer of Record
Charles C. Freeman, P.E.
11880 COLLIER BLVD, STE 405
OVERLAND PARK, KS 66210
P 913.522.5150
Proj# 242.0219

the Melt
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616



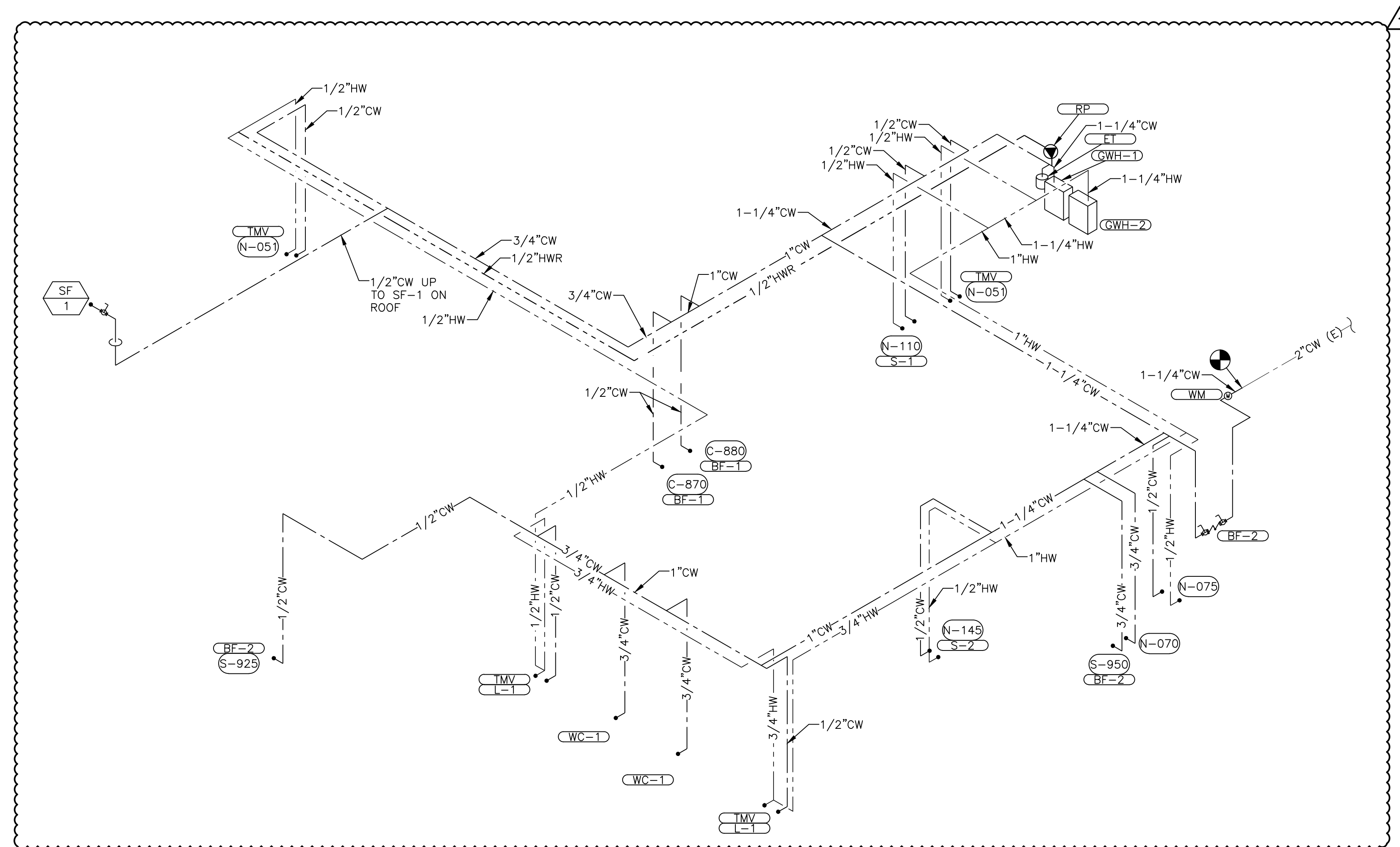
REV	DATE	DESCRIPTION
1	1/16/25	CITY COMMENTS

ORIGINAL ISSUE DATE: 12.04.2024

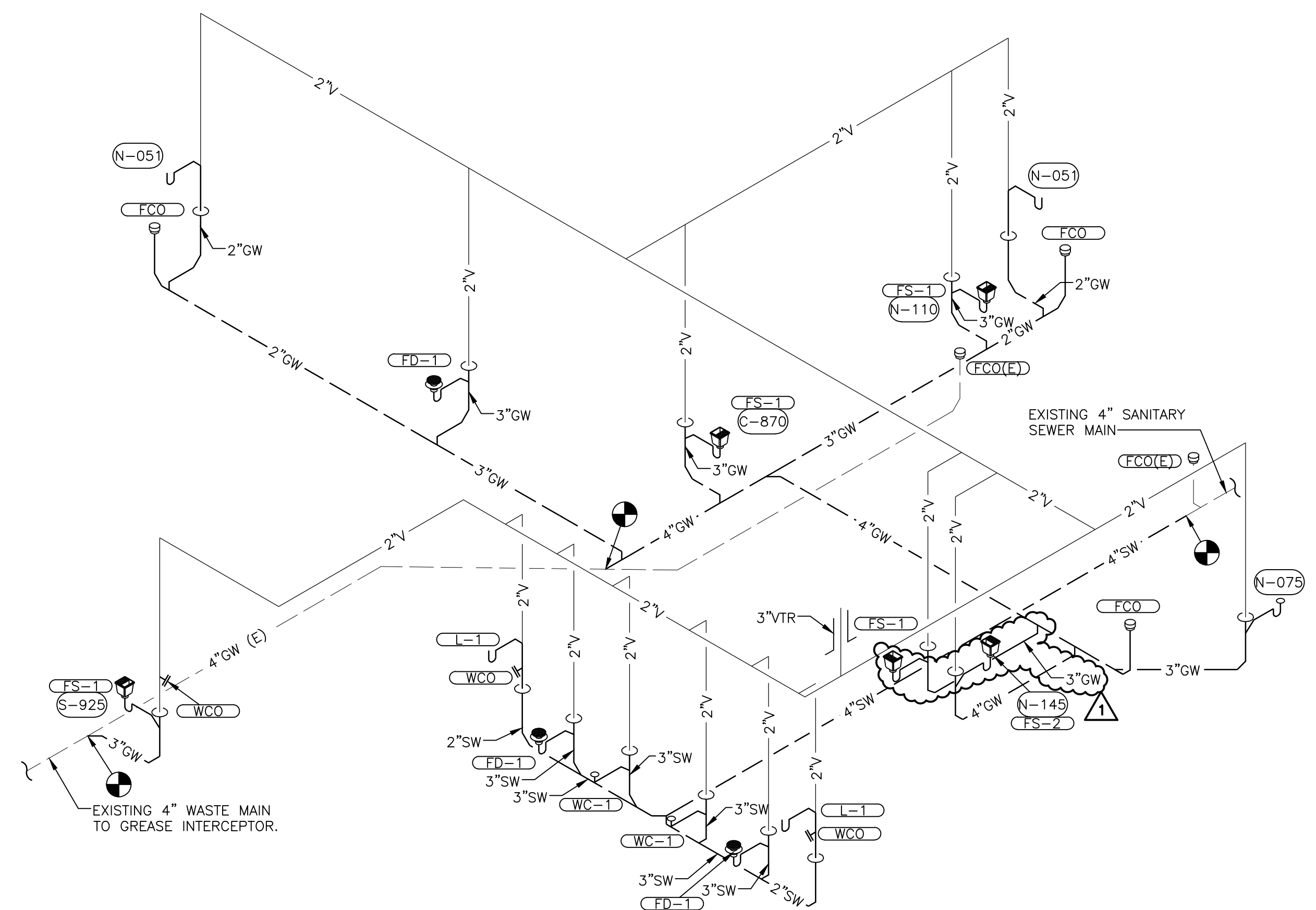
SHEET TITLE:
**PLUMBING
DOMESTIC
WATER**

SHEET NUMBER:
P3.0

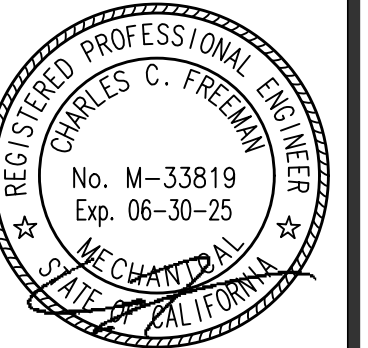
1 PLUMBING DOMESTIC WATER PLAN
1/4"=1'-0"



2 DOMESTIC WATER RISER



1 SANITARY RISER
NTS



SIGNATURE DATE: 01/16/2024

Mech. Engineer of Record
Charles C. Freeman, P.E.
11880 COLLEGE BLVD, STE 475
OVERLAND PARK, KS 66210
P 913 322 5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-585 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

the MELT

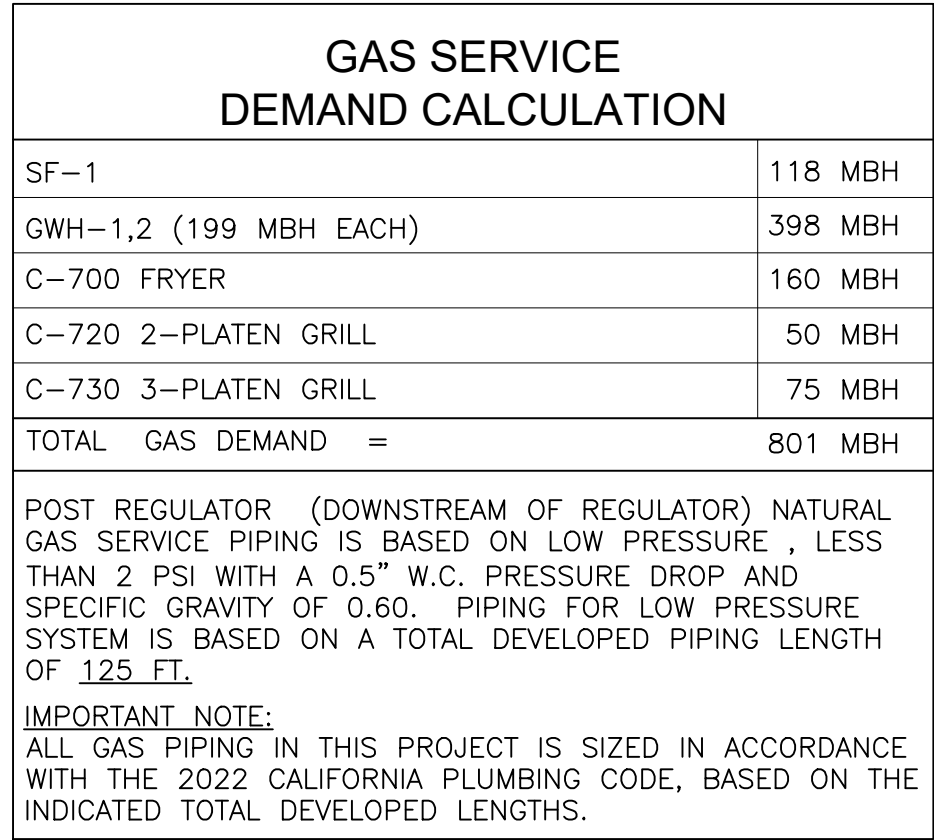
[illegible]

SHEET TITLE:

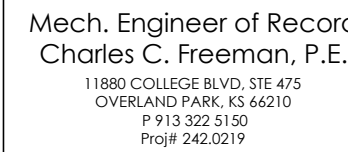
PLUMBING RISERS

HEET NUMBER:

P4.0



1 GAS RISER
NTS



the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

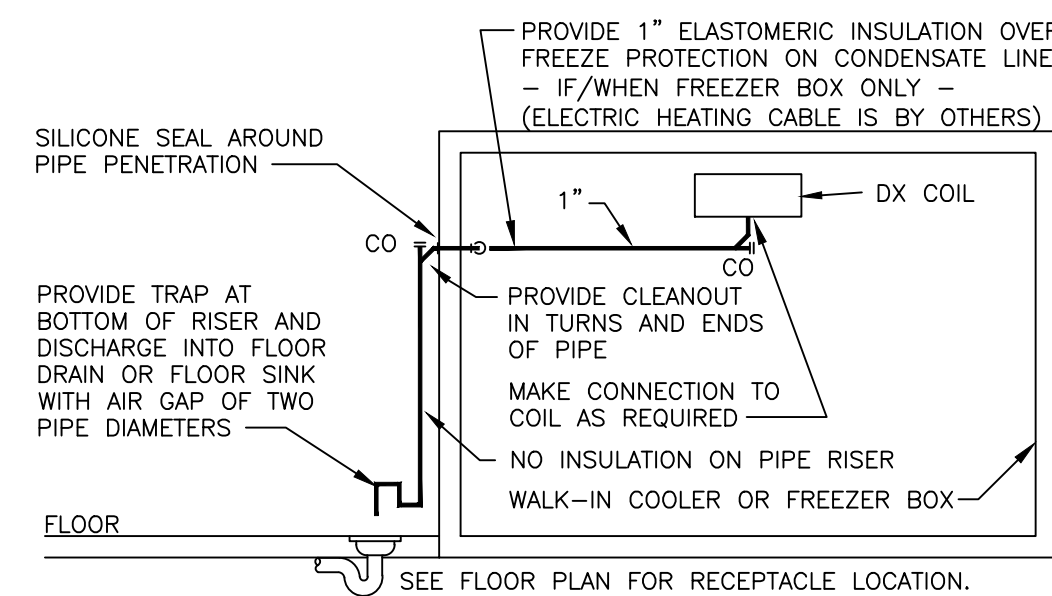
[illegible]

SHEET TITLE:

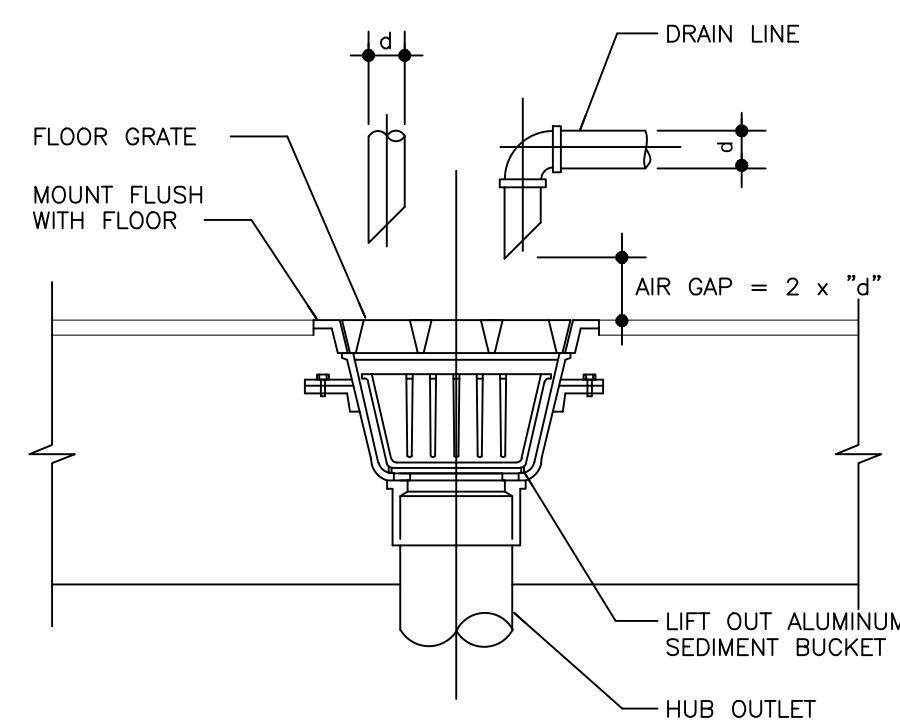
PLUMBING RISERS

SHEET NUMBER:

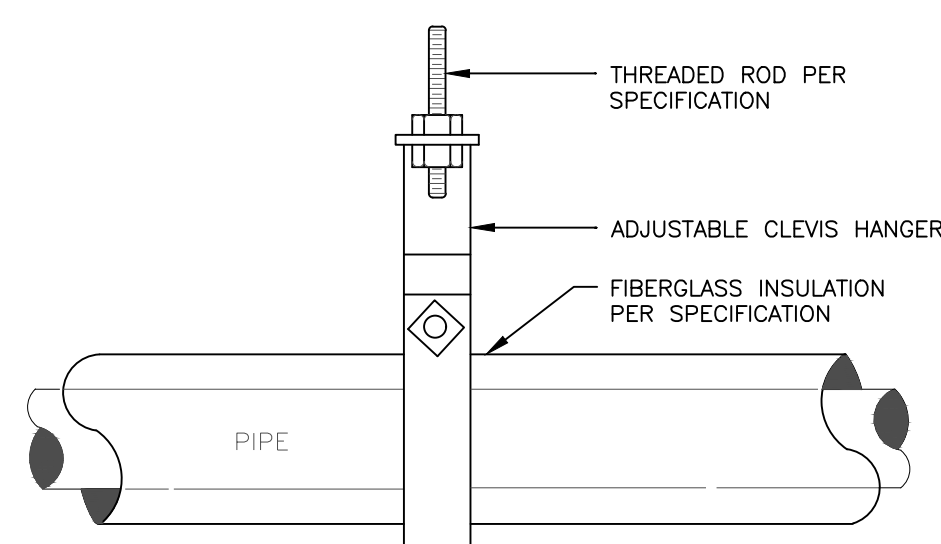
P4.1



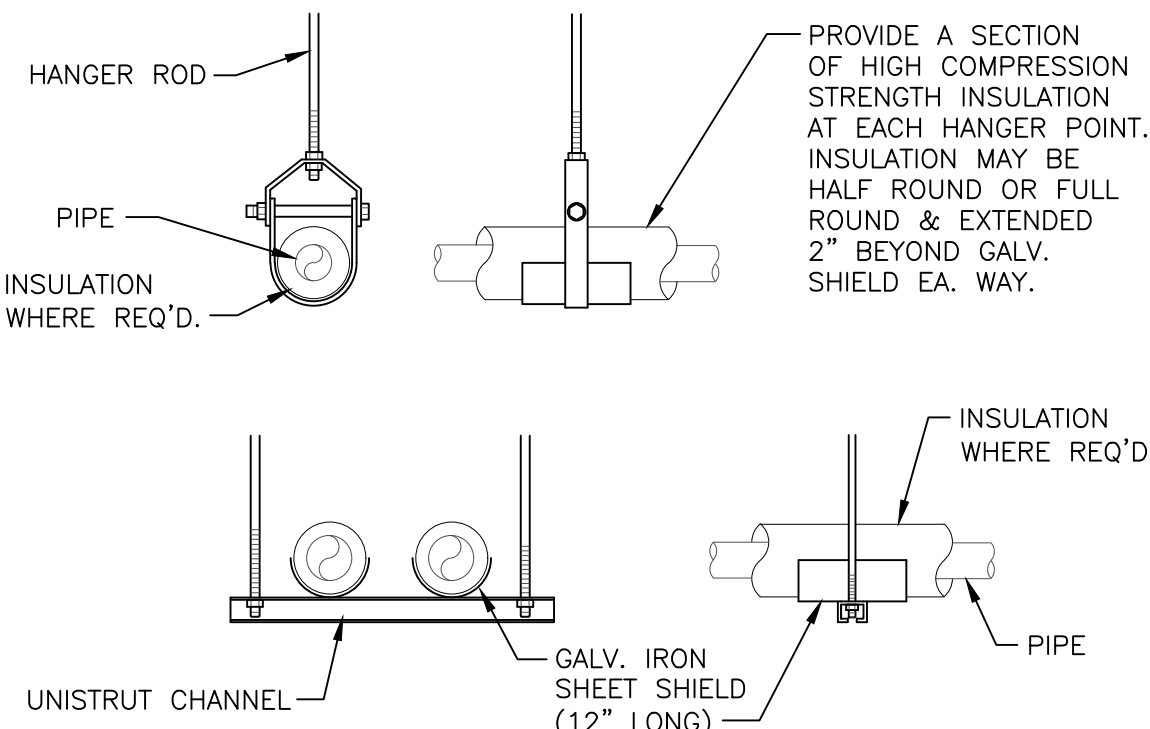
8 COOLER/FREEZER DRAIN
NOT TO SCALE



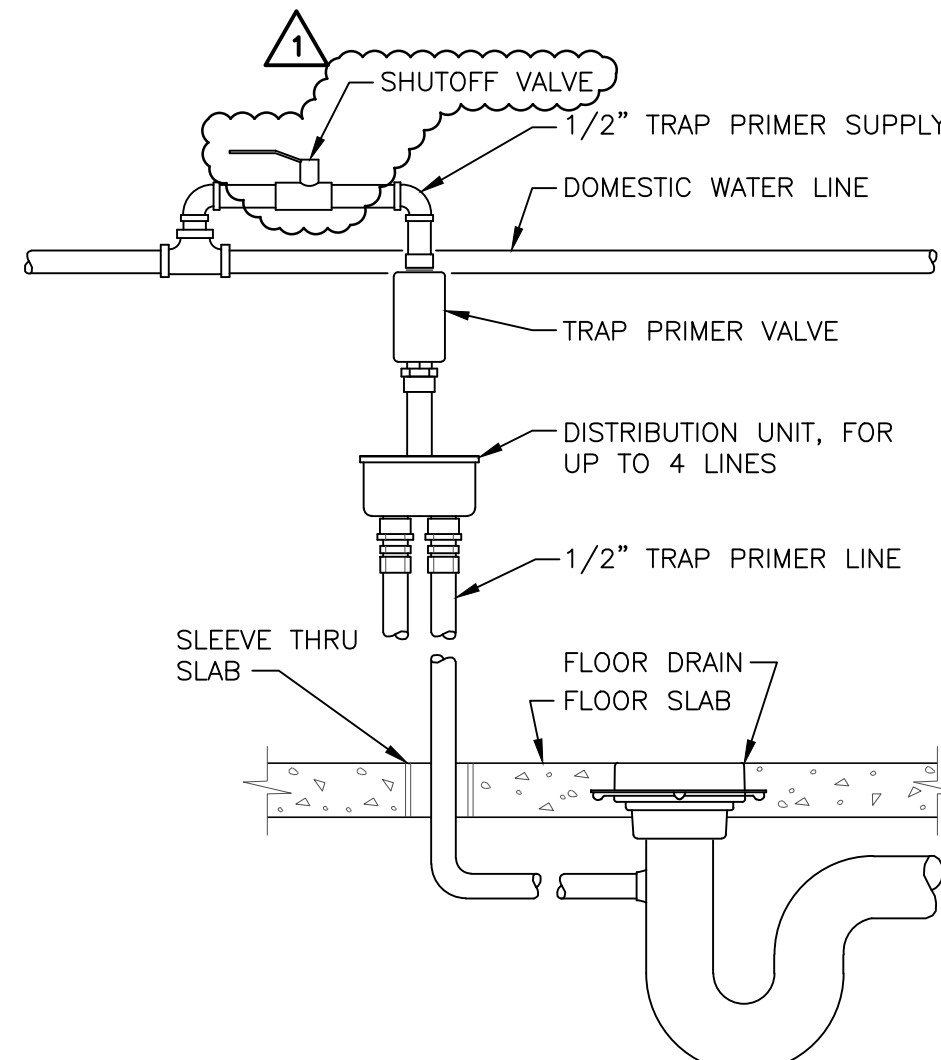
7 FLOOR SINK
N.T.S.



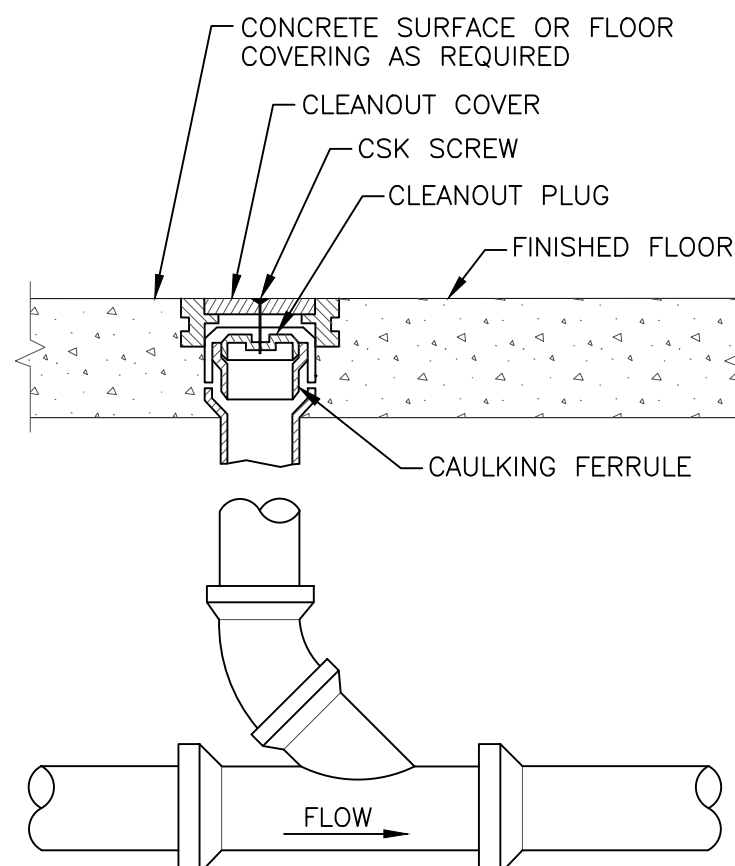
WATER PIPING (COPPER TYPE "L")				
PIPE SIZE	WEIGHT / FT. WITH WATER (IN LBS.)	MAX SPACING	LOAD / HGR	ROD SIZE
1/2"	.38	6'	2.28	3/8"
3/4"	.66	6'	3.96	3/8"
1"	1.04	6'	6.24	3/8"
1-1/4"	1.43	6'	8.58	3/8"
1-1/2"	1.92	6'	19.2	3/8"
2"	3.09	10'	30.8	3/8"
2-1/2"	4.52	10'	45.2	3/8"



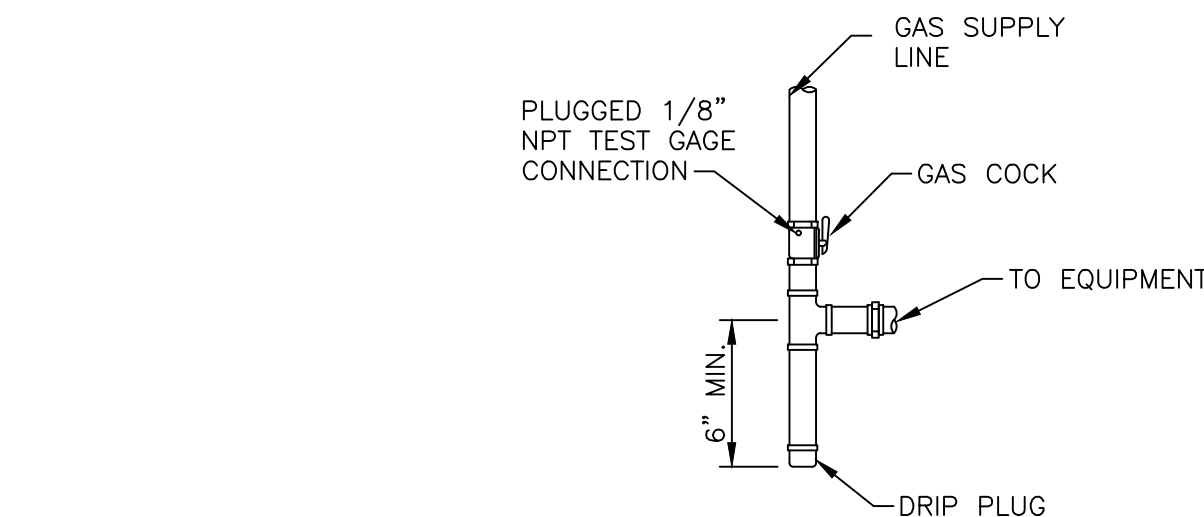
4 PIPE HANGING DETAIL
SCALE: NONE



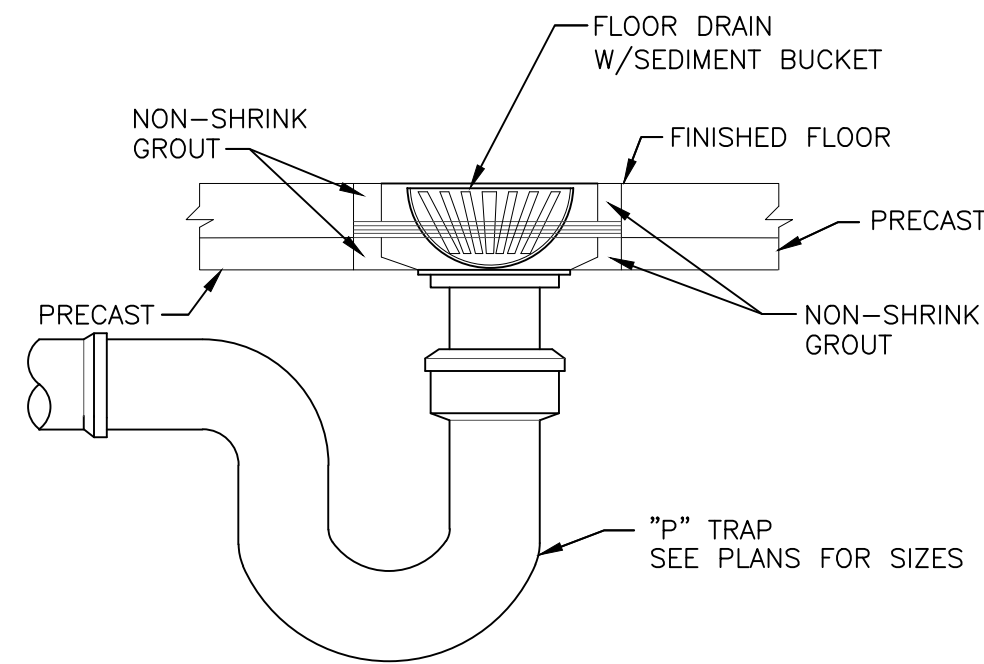
6 TRAP SEAL PRIMER DETAIL
NOT TO SCALE



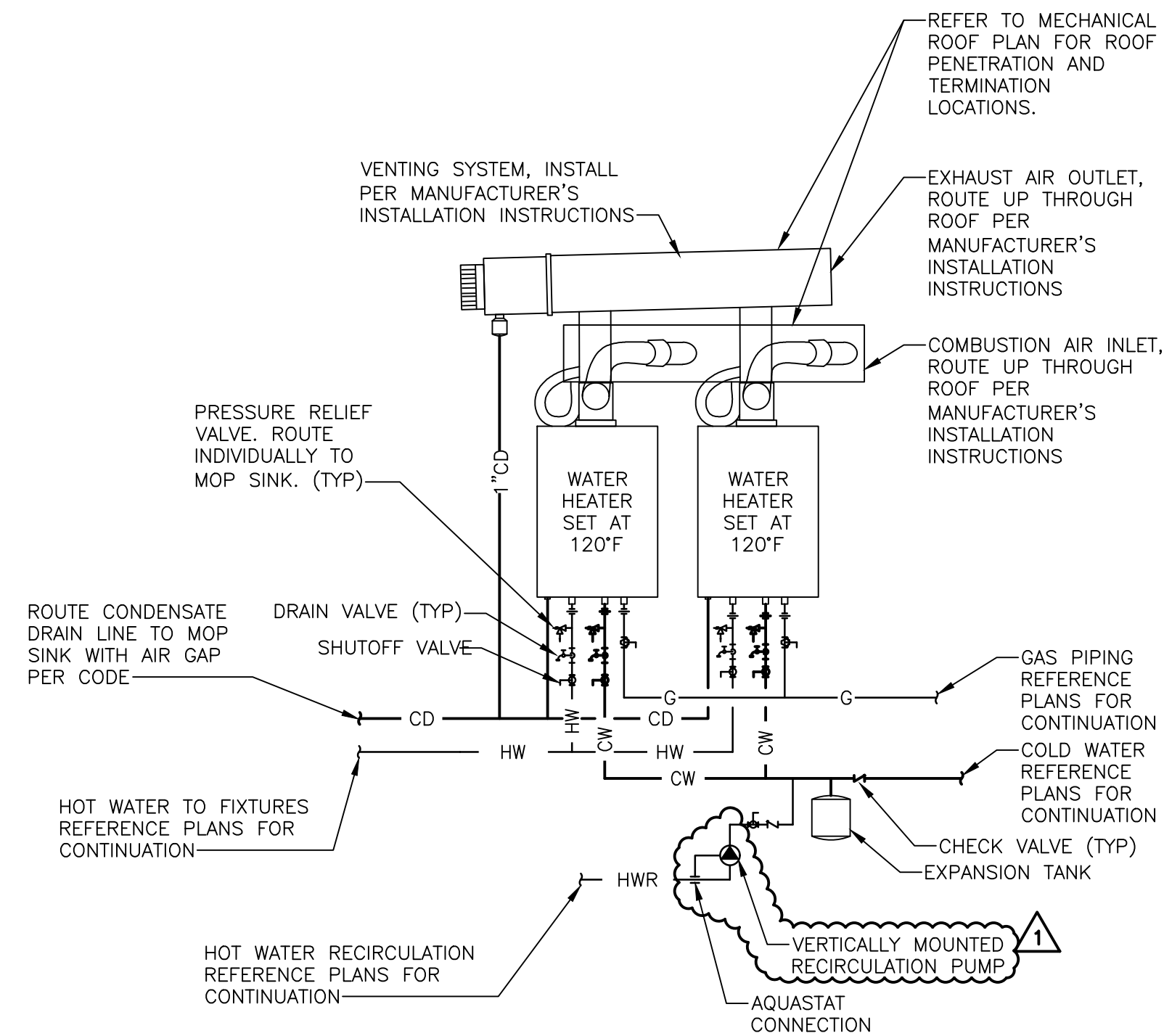
5 FLOOR CLEANOUT
N.T.S.



2 GAS EQUIPMENT CONNECTION
SCALE: NONE



3 FLOOR DRAIN DETAIL
NOT TO SCALE

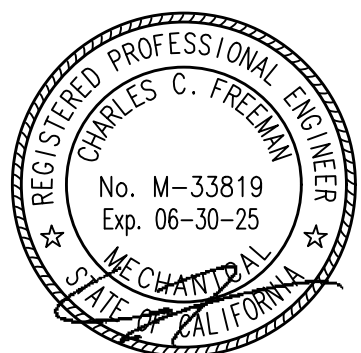


ENTIRE
PIPING SHOWN IS SCHEMATIC ADJUST TO SUIT FIELD CONDITIONS.
INSTALLATION SHALL CONFORM TO MANUFACTURER'S INSTALLATION
RECOMMENDATIONS.

NOTES

1. REFER TO SPECIFICATIONS AND PLUMBING FIXTURE SCHEDULE. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLAN FOR PIPE SIZES. SET WATER HEATER THERMOSTAT AT 120° FAHRENHEIT. PROVIDE SEISMIC STRAP OR BRACING AND FLEXIBLE CONNECTORS TO WATER AND GAS CONNECTIONS IF/AS REQUIRED BY LOCAL AUTHORITIES.
2. A WATER HEATER PRESSURE AND TEMPERATURE RELIEF DRAIN SHALL COMPLY WITH SECTION 608.5 CPC.
3. PROVIDE EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE PER SECTION 608.3 CPC.
4. EACH WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 507.2 CPC.

1 WATER HEATER DETAIL
NOT TO SCALE



SIGNATURE DATE: 01/16/2024

Mech. Engineer of Record
Charles C. Freeman, P.E.
11880 COLLEGE BLVD, STE 475
OVERLAND PARK, KS 66210
P 913 322 5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

theMELT

[illegible]

ORIGINAL ISSUE DATE: 12.04.202

SHEET TITLE:

PLUMBING DETAILS

SHEET NUMBER:

P5.0

[illegible]

SIGNATURE DATE: 01/16/2024

Mech. Engineer of Record
Charles C. Freeman, P.E.
11880 COLLEGE BLVD, STE 475
OVERLAND PARK, KS 66210
P 913.322.5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616



REV	DATE	DESCRIPTION
1	1/16/25	CITY COMMENTS

ORIGINAL ISSUE DATE: 12.04.2024

SHEET TITLE:
PLUMBING SPECIFICATIONS

SHEET NUMBER:

P6.0

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																																																								
P																																																																								
O																																																																								
N																																																																								
M																																																																								
L																																																																								
K																																																																								
J																																																																								
H																																																																								
G																																																																								
F																																																																								
E																																																																								
D																																																																								
C																																																																								
B																																																																								
A																																																																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																																																								
	STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-PLB-E (Page 3 of 8) 1 Project Name: The Melt - Davis Report Page: Project Address: 737-885 Russel Blvd, Building D, Suite 114, Davis, CA 95616 Date Prepared: 2024-07-17T15:26:31-04:00 A. GENERAL INFORMATION <table> <tr> <td>01</td><td>Project Location (city)</td><td>Davis</td><td>02</td><td>Climate Zone</td><td>12</td></tr> <tr> <td>03</td><td>Occupancy Types Within Project (select all that apply):</td><td colspan="4"></td></tr> <tr> <td colspan="6">• Restaurant</td></tr> </table> B. PROJECT SCOPE This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./170.2(d) and 141.0(a)/180.1, or 141.0(b)(2)/180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document. <table> <tr> <td>01</td><td>02</td><td>03</td></tr> <tr> <td>My project consists of (check all that apply):</td><td>System Type^{1,2}</td><td>System Components</td></tr> <tr> <td>☒ New system (DHW system being installed for the first time)</td><td>Individual System (serving nonresidential spaces)</td><td>☒ Equipment ☒ Distribution ☒ Controls</td></tr> <tr> <td>☐ System Alteration (equipment, distribution or controls)</td><td></td><td>☐ Equipment ☐ Distribution ☐ Controls</td></tr> </table> ¹FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems. ² Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy. ³ DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance. <table> <tr> <td>01</td><td>02</td><td>03</td><td>04</td></tr> <tr> <td>Domestic Hot Water Equipment</td><td>Distribution Systems</td><td>Controls</td><td>Compliance Results</td></tr> <tr> <td>Table F</td><td>Table G</td><td>Table H</td><td></td></tr> <tr> <td>Yes</td><td>Yes</td><td>Yes</td><td>COMPLIES</td></tr> </table> D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 212923-0724-0002 Schema Version: rev 20220101 Report Generated: 2024-07-17 12:26:34 STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-PLB-E (Page 4 of 8) Project Name: The Melt - Davis Report Page: Project Address: 737-885 Russel Blvd, Building D, Suite 114, Davis, CA 95616 Date Prepared: 2024-07-17T15:26:31-04:00 F. DOMESTIC HOT WATER EQUIPMENT Water Heating Equipment All Occupancies <table> <tr> <th></th><th>Yes</th><th>No</th><th>Not Applicable</th><th>Requirement</th></tr> <tr> <td>18</td><td>☐</td><td>☒</td><td>☐</td><td>Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3</td></tr> <tr> <td>19</td><td>☐</td><td>☐</td><td>☒</td><td>New state buildings: 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5</td></tr> <tr> <td>20</td><td>☒</td><td>☐</td><td>☐</td><td>Isolation valves for instantaneous water heater with input rating >6.8 kBtUH or 2 kW has been specified per 110.3(c)6</td></tr> <tr> <td>21</td><td>☐</td><td>☐</td><td>☒</td><td>School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.</td></tr> </table> Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 212923-0724-0002 Schema Version: rev 20220101 Report Generated: 2024-07-17 12:26:34 STATE OF CALIFORNIA Domestic Water Heating System CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-PLB-E (Page 7 of 8) Project Name: The Melt - Davis Report Page: Project Address: 737-885 Russel Blvd, Building D, Suite 114, Davis, CA 95616 Date Prepared: 2024-07-17T15:26:31-04:00 I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title NRCC-PLB-E - Must be submitted for all buildings J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no forms required for this project. K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION There are no forms required for this project. Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 212923-0724-0002 Schema Version: rev 20220101 Report Generated: 2024-07-17 12:26:34	01	Project Location (city)	Davis	02	Climate Zone	12	03	Occupancy Types Within Project (select all that apply):					• Restaurant						01	02	03	My project consists of (check all that apply):	System Type ^{1,2}	System Components	☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment ☒ Distribution ☒ Controls	☐ System Alteration (equipment, distribution or controls)		☐ Equipment ☐ Distribution ☐ Controls	01	02	03	04	Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results	Table F	Table G	Table H		Yes	Yes	Yes	COMPLIES		Yes	No	Not Applicable	Requirement	18	☐	☒	☐	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3	19	☐	☐	☒	New state buildings: 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5	20	☒	☐	☐	Isolation valves for instantaneous water heater with input rating >6.8 kBtUH or 2 kW has been specified per 110.3(c)6	21	☐	☐	☒	School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.
01	Project Location (city)	Davis	02	Climate Zone	12																																																																			
03	Occupancy Types Within Project (select all that apply):																																																																							
• Restaurant																																																																								
01	02	03																																																																						
My project consists of (check all that apply):	System Type ^{1,2}	System Components																																																																						
☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment ☒ Distribution ☒ Controls																																																																						
☐ System Alteration (equipment, distribution or controls)		☐ Equipment ☐ Distribution ☐ Controls																																																																						
01	02	03	04																																																																					
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results																																																																					
Table F	Table G	Table H																																																																						
Yes	Yes	Yes	COMPLIES																																																																					
	Yes	No	Not Applicable	Requirement																																																																				
18	☐	☒	☐	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3																																																																				
19	☐	☐	☒	New state buildings: 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5																																																																				
20	☒	☐	☐	Isolation valves for instantaneous water heater with input rating >6.8 kBtUH or 2 kW has been specified per 110.3(c)6																																																																				
21	☐	☐	☒	School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.																																																																				

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-PLB-E

(Page 2 of 8)

Project Name: The Melt - Davis

Report Page:

Project Address: 737-885 Russel Blvd, Building D, Suite



SIGNATURE DATE: 01/16/2024

Mech. Engineer of Record
Charles C. Freeman, P.E.
11880 COLLEGE BLVD, STE 475
OVERLAND PARK, KS 66210
P 913 322 5150
Proj# 242.0219

the MELT
THE DAVIS COLLECTION
737-885 RUSSELL BLVD
BUILDING D, SUITE 114
DAVIS, CA 95616

[illegible]

ORIGINAL ISSUE DATE: 12.04.2024

SHEET TITLE:

PLUMBING TITLE 24

SHEET NUMBER:

P7.0