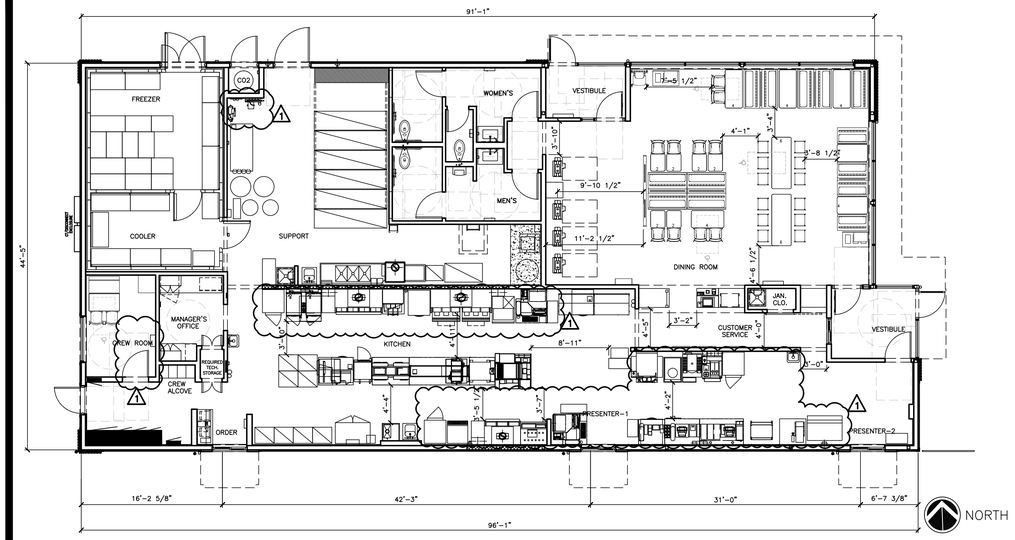

4590-WW PLAN

48 SEATS (3 ACCESSIBLE SEATS)

OCCUPANCY ALLOWANCE:

2018 INTERNATIONAL BUILDING CODE

TABLE 1004.5
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANTS
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS	565 SF	2
ASSEMBLY WITH FIXED SEATS	SEE PLAN	–	48
ASSEMBLY W/OUT FIXED SEATS STANDING SPACE	5 NET	110 SF	22
BUSINESS AREAS	150 GROSS	67 SF	1
KITCHEN, COMMERCIAL	200 GROSS	1,374 SF	7
–	–	–	–
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TOTAL OCCUPANCY ALLOWANCE			80

2026 4590-WW BUILDING BB20 NASHVILLE FIELD OFFICE

BUILDING INFORMATION:

ADDRESS:

STATE SITE CODE: 024-1329
STREET ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD
CITY: WILLARD
COUNTY: GREENE
STATE: MISSOURI

STRUCTURE:

WOOD LOAD BEARING WALLS, WOOD ROOF FRAMING

UTILITIES:

ELECTRIC GRILLS & ELECTRIC FRYERS
ELECTRIC HVAC & ELECTRIC WATER HEATER

BUILDING CODE:

BUILDING CODE EDITION:	2018 INTERNATIONAL BUILDING CODE
MECHANICAL CODE EDITION:	2018 INTERNATIONAL MECHANICAL CODE
ELECTRICAL CODE EDITION:	2017 NATIONAL ELECTRICAL CODE
PLUMBING CODE EDITION:	2018 INTERNATIONAL PLUMBING CODE
ENERGY CODE EDITION:	2018 INTERNATIONAL ENERGY CONSERVATION CODE
FIRE/LIFE SAFETY CODE EDITION:	2018 INTERNATIONAL FIRE CODE
FUEL/GAS CODE EDITION:	2018 INTERNATIONAL FUEL/GAS CODE
HEALTH CODE EDITION:	GREENE COUNTY HEALTH CODE
ACCESSIBILITY CODE EDITION:	2017 ICC A117.1 & 2010 ADA STANDARDS
EXISTING BUILDING CODE EDITION:	2018 INTERNATIONAL EXISTING BUILDING CODE

BUILDING DATA:

OCCUPANCY: USE GROUP A2
CONSTRUCTION TYPE: VB
NUMBER OF STORIES: 1
BUILDING HEIGHT: 18'-9 1/2"

GROSS BUILDING AREA:	4,181 GROSS S.F.
FLOOR AREA, GROSS:	3,985 NET S.F.

DESIGN LOADS:

GROUND SNOW LOAD:	REFERENCE SHEET S4.0
WIND SPEED:	REFERENCE SHEET S4.0
SEISMIC DESIGN CATEGORY:	REFERENCE SHEET S4.0
SOIL BEARING CAPACITIES:	REFERENCE SHEET S4.0

LIFE SAFETY SYSTEM:

EMERGENCY LIGHTING:	X YES	___ NO
EXIT SIGNS:	X YES	___ NO
FIRE ALARM:	___ YES	X NO
DUCT SMOKE DETECTORS W/ AUDIBLE/VISIBLE DEVICE:	X YES	___ NO
FIRE SPRINKLERS:	___ YES	X NO
SPRINKLER FLOW/TAMPER SWITCH W/ AUDIBLE/VISIBLE DEVICE:	___ YES	X NO
CO2 DETECTION SYSTEM W/ AUDIBLE/VISIBLE DEVICE:	X YES	___ NO
PANIC HARDWARE:	X YES	___ NO

DESIGNER OF RECORD:

DISCIPLINE:	NAME:	EMAIL:	PHONE #:
ARCHITECT:	JAW Architects Inc.	jeramy@jaw-arch.com	817-705-3387
STRUCTURAL:	Rubix Consultants	Contact Architect	Contact Architect
MECHANICAL:	David W. Day	Contact Architect	Contact Architect
PLUMBING:	David W. Day	Contact Architect	Contact Architect
ELECTRICAL:	David W. Day	Contact Architect	Contact Architect

CONSTRUCTION PROJECT MANAGER:

DISCIPLINE:	NAME:	EMAIL:	PHONE #:
MANAGER:	Kyle Bourgeois	kyle.bourgeois@us.mcd.com	Contact Architect

SPECIAL PROJECT NOTE:

THE FOUNDATION DESIGN IS BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 1,500 PSF. CONSTRUCTION MAY NOT START UNTIL THIS HAS BEEN VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER. THE FINAL GEOTECHNICAL REPORT SHALL BE PROVIDED TO THE ARCHITECT & STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

REVISIONS

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GENERAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES AND STANDARDS INCLUDING ADA AND OR OTHER HANDICAP ACCESSIBILITY CODES.
2. GEN.ERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER'S VENDORS REGARDING SCHEDULING ON SITE DURING CONSTRUCTION AND SEQUENCING OF THE WORK.
3. THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN INTENT AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
4. THE DRAWINGS ARE NOT TO BE SCALED. FOR INFORMATION CONCERNING EXISTING CONDITIONS, ETC., VERIFICATION MUST BE DONE IN THE FIELD. LARGE SCALE DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS.
5. 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 ARCHITECT.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
7. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES, SIGNAGE, AND OTHER DEVICES REQUIRED.
8. ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
9. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
10. UPON COMPLETION OF PROJECT, G.C. TO OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
11. SIGNS, UNLESS NOTED OTHERWISE, ARE PROVIDED BY OWNER'S SIGN CONTRACTOR. OWNER'S SIGN VENDOR WILL PROVIDE MONUMENT SIGN BASE (CONCRETE, STONE, BRICK, ETC.) IF PROJECT REQUIRES DECORATIVE BASE. SEE SHEET L-1 TO VERIFY IF REQUIRED. GENERAL CONTRACTOR TO PROVIDE ROUGH-IN & FINAL CONNECTION AND BRAILLE EXIT SIGN.
12. GENERAL CONTRACTOR TO PROVIDE FOUR (4) 30 YARD DUMPSTERS DURING McDONALD RETAIL MOVE-IN.
13. GENERAL CONTRACTOR SHALL PROVIDE ONE SKILLED LABORER FOR ONE WEEK DURING McDONALD RETAIL MOVE-IN. (40 HOURS)
14. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SET-UP AND COORDINATION OF ALL THE UTILITY SERVICES FOR THE PROJECT.
15. ALL EXTERIOR FLOOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF FOUNDATION UNLESS OTHERWISE NOTED. ALL INTERIOR FLOOR PLAN DIMENSIONS ARE TO FACE OF INTERIOR WALL BOARD UNLESS OTHERWISE NOTED.
16. FINAL KEYING TO BE COORDINATED WITH McDONALD FACILITY MANAGER AND PAID FOR BY McDONALD.
17. REFER TO "PROJECT MANUAL" FOR ALL OTHER INSTRUCTIONS & DIRECTIVES NOT SHOWN IN DRAWINGS. IF THERE IS A CONFLICT BETWEEN THE DRAWINGS AND PROJECT MANUAL, NOTIFY THE AREA CONSTRUCTION MANAGER FOR RESOLUTION.

ABBREVIATIONS

GENERAL ABBREVIATIONS

A	ANNEALED
AC	AIR CONDITIONING
ACT	ACOUSTIC CEILING TILE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ASPH	ASPHALT
CJ	CONTROL JOINT
CLNG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CP	CONCRETE PAD
CT	CERAMIC TILE
CL	CENTERLINE
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
EXIST	EXISTING
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
GALV	GALVANIZED
GYP BD	GYPSUM BOARD
HC	HANDICAP
HDW	HARDWARE
HM	HOLLOW METAL
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
INSUL	INSULATION
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
OPT	OPTIONAL
PAR	PARTIAL
PF	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PT	PRESSURE TREATED
PTD	PAINTED
QT	QUARRY TILE
R	RADIUS
REBAR	REINFORCING BAR
REF	REFERENCE
REQD.	REQUIRED
RO	ROUGH OPENING
SB	SPLASHBLOCK
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STL	STEEL
STOR	STORAGE
SUSP	SUSPENDED
T	TEMPERED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
WD	WOOD
WP	WATERPROOF
WWF	WELDED WIRE FABRIC

McDONALD'S ABBREVIATIONS

BM	BRAKE METAL
C	ALUMINUM CANOPY
CA	CITADEL PANEL
CG	CORNER GUARD
CT	WALL TILE
CP	CENTRAL PURCHASING
DW DEVICE	DECOR ELEMENT OR FINISH
DMB	DIGITAL MENU BOARD
DS	DROP SOFFIT
D/T	DRIVE-THRU
FB	FILL BOX
F/C	FREEZER/COOLER
GC	GENERAL CONTRACTOR
HP	HIGH POINT
KIOSK	
L	LIGHT FIXTURE
LAM	LAMINATE
LE	ACCENT LIGHTING
LP	LOW POINT
LL	LEVEL LANDING
MACHINE	
MANAGER	
MF	METAL FASCIA
MS	MOP SINK
PB	PIPE BOLLARD
PT	RMHC COIN COLLECTOR
RL	ROOF LADDER
ROOM	
S	McDONALD'S SIGNAGE
SCH	SCHLUTER
UN	ALUMINUM CANOPY UNDERSCORE

SYMBOL LEGEND:

- 6 / A4.0 — SECTION TAG
- 5 / A6.0 — DETAIL TAG
- T/ SLAB ELEV. 0'-0" — ELEVATION TAG
- 6 / A4.0 — DETAIL 1 1/2"=1'-0" DETAIL NUMBER — DRAWING TITLE
- 7 — DOOR TAG
- DINING ROOM 101 — ROOM NAME & NUMBER
- A — PARTITION TAG
- 1 — WINDOW TAG

REV	DATE	DESCRIPTION	BY

STATE OF MISSOURI — JERAMY ALLEN WILLIAMS — NUMBER A-2009035760 — ARCHITECT

PREPARED BY:
JAW Architects, Inc.
Jeramy Williams, Architect
Phone: 817-703-3387
Email: jeramy@jaw-arch.com

PREPARED FOR:
McDonald's USA, LLC

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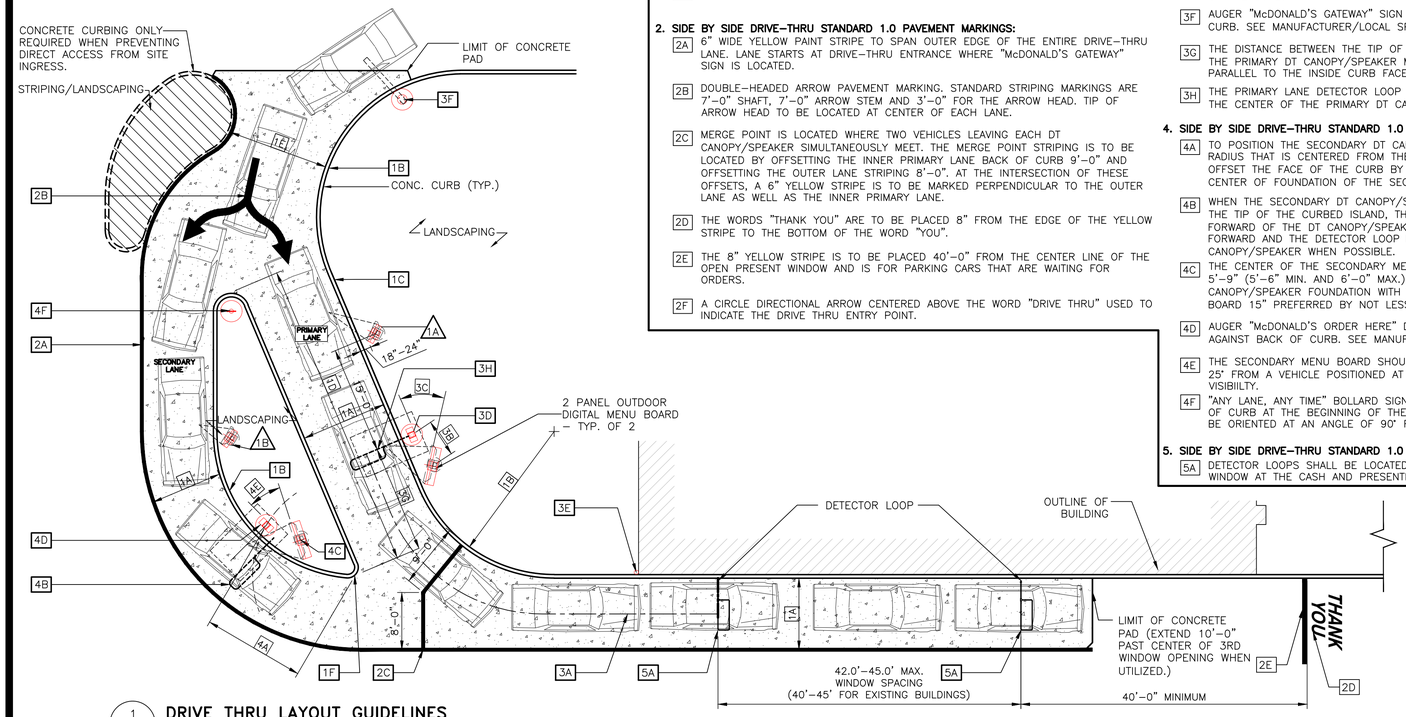
DRAWN BY	JAW
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20 4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS WOOD ROOF TRUSS FRAMING
SITE ID: 024-1329
SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

JAWA 26-0041

SHEET NO. GN1.1
GENERAL NOTES

THE LAYOUT OF THE DRIVE–THRU LANES SHOWN IN THIS DETAIL ILLUSTRATES DRIVE–THRU DESIGN PRINCIPLES.



1 DT1.0 **DRIVE THRU LAYOUT GUIDELINES**
1" = 10'–0"

SIDE BY SIDE DRIVE–THRU STANDARD 1.0

1. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 CURBING DETAILS:

1A DRIVE–THRU LANES BOUND BY CURB ON BOTH SIDES ARE TO BE 12'–0". LANES BOUND BY CURB ON ONE SIDE AND PAINTED STRIPING ON THE OTHER SIDE ARE TO BE A MIN. OF 10'–0".

1B THE MIN. RADIUS FOR ALL INSIDE/DRIVER'S SIDE DRIVE–THRU CURBING IS 20'–0".

1C PRIMARY LANE CURBING SHOULD BE AS STRAIGHT AS POSSIBLE. (LESS CURVING, THE BETTER).

1D THE OVERALL LENGTH OF THE CURBED ISLAND SHOULD BE 35'–45'. THE LENGTH OF THE ISLAND FROM THE DT CANOPY/SPEAKER ALLOWS FOR THREE CARS IN THE SECONDARY LANE, TWO IN THE PRIMARY LANE AND ONE AT THE COMMITMENT POINT.

1E ENTRANCE LANE ENTERING THE SIDE BY SIDE DRIVE–THRU IS TO BE 14'–0" MIN.

1F THE RADIUS FOR THE ISLAND TIP SHALL BE 1'–6".

2. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 PAVEMENT MARKINGS:

2A 6" WIDE YELLOW PAINT STRIPE TO SPAN OUTER EDGE OF THE ENTIRE DRIVE–THRU LANE. LANE STARTS AT DRIVE–THRU ENTRANCE WHERE "McDONALD'S GATEWAY" SIGN IS LOCATED.

2B DOUBLE–HEADED ARROW PAVEMENT MARKING. STANDARD STRIPING MARKINGS ARE 7'–0" SHAFT, 7'–0" ARROW STEM AND 3'–0" FOR THE ARROW HEAD. TIP OF ARROW HEAD TO BE LOCATED AT CENTER OF EACH LANE.

2C MERGE POINT IS LOCATED WHERE TWO VEHICLES LEAVING EACH DT CANOPY/SPEAKER SIMULTANEOUSLY MEET. THE MERGE POINT STRIPING IS TO BE LOCATED BY OFFSETTING THE INNER PRIMARY LANE BACK OF CURB 9'–0" AND OFFSETTING THE OUTER LANE STRIPING 8'–0", AT THE INTERSECTION OF THESE OFFSETS, A 6" YELLOW STRIPE IS TO BE MARKED PERPENDICULAR TO THE OUTER LANE AS WELL AS THE INNER PRIMARY LANE.

2D THE WORDS "THANK YOU" ARE TO BE PLACED 8" FROM THE EDGE OF THE YELLOW STRIPE TO THE BOTTOM OF THE WORD "YOU".

2E THE 8" YELLOW STRIPE IS TO BE PLACED 40'–0" FROM THE CENTER LINE OF THE OPEN PRESENT WINDOW AND IS FOR PARKING CARS THAT ARE WAITING FOR ORDERS.

2F A CIRCLE DIRECTIONAL ARROW CENTERED ABOVE THE WORD "DRIVE THRU" USED TO INDICATE THE DRIVE THRU ENTRY POINT.

3. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR PRIMARY LANE:

3A MIN. 60'–0" (+5', 60'–65') LINEAR DISTANCE BETWEEN THE CENTER LINE OF THE DT CANOPY/SPEAKER FACE AND THE CENTER LINE OF THE OPEN ORDER BOOTH WINDOW AS MEASURED ALONG THE CENTER LINE OF THE LANE. THIS MAY ONLY BE INCREASED IN 20'–0" INCREMENTS (±5' FOR 80', 100', AND 120') TO A MAX OF 120'. 100'–0" IS OPTIMAL.

3B THE CENTER OF THE PRIMARY MENU BOARD FOUNDATION IS TO BE 5'–9" (5'–6" MIN. AND 6'–0" MAX.) FROM THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION WITH THE END CAP OF THE PRIMARY MENU BOARD 15" PREFERRED BUT NOT LESS THAN 12" FROM THE FACE OF CURB. .

3C THE PRIMARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° TO 35° ANGLE (35° PREFERRED) FROM A CAR POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.

3D AUGER "McDONALD'S ORDER HERE CANOPY" CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.

3E A SINGLE BOLLARD SHOULD BE POSITIONED AT THE CORNER OF THE BUILDING ON THE DRIVE–THRU SIDE. IT SHOULD BE FLUSH AGAINST THE BUILDING AND FACE OF THE BOLLARD SHOULD BE TIGHT AGAINST THE BACK OF THE CURB.

3F AUGER "McDONALD'S GATEWAY" SIGN FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.

3G THE DISTANCE BETWEEN THE TIP OF THE CURBED ISLAND AND THE CENTER LINE OF THE PRIMARY DT CANOPY/SPEAKER MUST BE 15'–0". THIS MEASUREMENT IS TAKEN PARALLEL TO THE INSIDE CURB FACE OF THE PRIMARY LANE.

3H THE PRIMARY LANE DETECTOR LOOP SHOULD BE PERPENDICULAR TO THE CENTER OF THE PRIMARY DT CANOPY/SPEAKER.

4. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR SECONDARY LANE:

4A TO POSITION THE SECONDARY DT CANOPY/SPEAKER, DRAW AN ARC WITH A 14' RADIUS THAT IS CENTERED FROM THE MIDPOINT OF THE ISLAND TIP. THEN OFFSET THE FACE OF THE CURB BY 24" TO DETERMINE THE LOCATION OF CENTER OF FOUNDATION OF THE SECONDARY DT CANOPY/SPEAKER.

4B WHEN THE SECONDARY DT CANOPY/SPEAKER IS LOCATED AT 14'–0" FROM THE TIP OF THE CURBED ISLAND, THE LOOP DETECTOR IS TO BE 2'–0" FORWARD OF THE DT CANOPY/SPEAKER CENTER LINE WITH THE LOOP FACING FORWARD AND THE DETECTOR LOOP PERPENDICULAR TO THE SECONDARY DT CANOPY/SPEAKER WHEN POSSIBLE.

4C THE CENTER OF THE SECONDARY MENU BOARD FOUNDATION SHALL BE 5'–9" (5'–6" MIN. AND 6'–0" MAX.) FROM CENTER OF THE DT CANOPY/SPEAKER FOUNDATION WITH THE END CAP OF THE SECONDARY MENU BOARD 15" PREFERRED BY NOT LESS THAN 12" FROM FACE OF CURB.

4D AUGER "McDONALD'S ORDER HERE" DT CANOPY/SPEAKER FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.

4E THE SECONDARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° FROM A VEHICLE POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.

4F "ANY LANE, ANY TIME" BOLLARD SIGN MUST BE A MIN. OF 1'–6" FROM FACE OF CURB AT THE BEGINNING OF THE LANDSCAPE ISLAND. BOLLARD SIGN IS TO BE ORIENTED AT AN ANGLE OF 90° FROM THE CURB.

5. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 DETECTOR LOOP:

5A DETECTOR LOOPS SHALL BE LOCATED AT THE CENTER OF THE OPENING WINDOW AT THE CASH AND PRESENTER BOOTHS.

SIDE BY SIDE DRIVE–THRU STANDARD 1.0 FEATURES:

1. SIDE BY SIDE DRIVE–THRU STANDARD 1.0 EQUIPMENT:

1A PRE–BROWSE BOARD MUST BE 18"–24" FROM FACE OF CURB. THE DISTANCE BETWEEN THE PRIMARY DT CANOPY/SPEAKER AND PRE–BROWSE BOARD IS TO BE 15' AS MEASURED ALONG THE FACE OF CURB. THIS IS MEASURED FROM THE CENTER OF THE PRE–BROWSE BOARD FOUNDATION TO THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. THE ANGLE (APPROXIMATELY 50°) OF THE PRE–BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM DT CANOPY/SPEAKER.

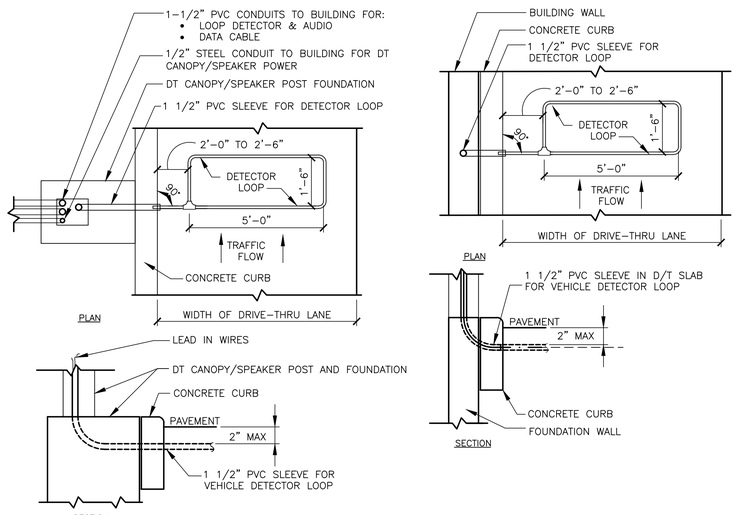
1B PRE–BROWSE BOARD MUST BE MIN. 12" FROM FACE OF CURB. THE DISTANCE BETWEEN THE SECONDARY DT CANOPY/SPEAKER AND PRE–BROWSE BOARD IS TO BE 15' AS MEASURED ALONG FACE OF THE CURB. THIS IS MEASURED FROM THE POINT PERPENDICULAR TO THE CENTER OF THE PRE–BROWSE BOARD FOUNDATION TO THE POINT PERPENDICULAR TO THE CENTER OF THE DT CANOPY/SPEAKER FOUNDATION. THE ANGLE OF THE PRE–BROWSE BOARD SHOULD MAXIMIZE VISIBILITY TO THE SECOND CAR FROM DT CANOPY/SPEAKER (PREFERRED 35°).

GENERAL NOTES

1. **DRIVE–THRU ELEMENTS:**
   DT CANOPY/SPEAKER DRIVE–THRU PYLON/CLEARANCE POLE AND BOLLARD SIGN SHALL BE CONSISTENT WITH THE STANDARD BUILDING DESIGN DRIVE–THRU ELEMENTS.
   OTHER DESIGNS MAY NOT BE USED.
2. CONTRACTOR SHALL COORDINATE WITH APPLICABLE PLANS, McDONALD'S AREA CONSTRUCTION MANAGER, CONTENT SUPPLIER AND SIGNAGE SUPPLIER TO DETERMINE EXACT LOCATION, ORIENTATION, MOUNTING HEIGHTS, AND NUMBER OF BOARDS AND OTHER DRIVE–THRU ELEMENTS TO BE INSTALLED AT THIS SITE. ALL WORK TO BE COORDINATED WITH OTHER TRADES.
3. CONTACT McDONALD'S AREA CONSTRUCTION MANAGER FOR DRIVE–THRU ELEMENT FOOTING AND WIRING REQUIREMENTS NOT SHOWN. (INFORMATION ALSO AVAILABLE THROUGH VENDOR WEBSITES) SIGNAGE MANUFACTURER TO PROVIDE FOOTING ANCHORS & TEMPLATES TO G.C. PRIOR TO FOUNDATION POURING.
4. SEE DETAIL 2/DT1.0 FOR DETECTOR LOOP INFORMATION, ELECTRICAL SHEETS FOR LOW VOLTAGE CONDUIT DIAGRAM AND FOR DRIVE THRU POWER DIAGRAM; VENDOR'S SPECIFICATIONS SHALL GOVERN UPON ANY DISCREPANCIES.
5. CONTRACTOR TO COORDINATE THE RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR, CONTENT SUPPLIER AND THE SIGN SUPPLIER.
6. CONTRACTOR TO INSTALL PRE–FORMED, PRE–WIRED VEHICLE DETECTOR LOOP.
7. CONTRACTOR SHALL VERIFY CONDUIT SIZES REQUIRED BY VEHICLE LOOP DETECTOR SUPPLIER.

NOTES

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
3. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
4. DETECTOR LOOP MANUFACTURERS:
   DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWINGS COMPANIES OR EQUAL.
   3M: 1–800–328–0033
   HME: 1–800–848–4468
5. DETECTOR LOOP MATERIAL:
   PVC TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD–IN IS PRE–TWISTED AT FACTORY.
6. DETECTOR LOOP CONSTRUCTION:
   FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.



A – DT CANOPY/SPEAKER DETECTOR LOOP

B – DT WINDOW DETECTOR LOOP

2 DT1.0 **DETECTOR LOOP DETAILS**
NOT TO SCALE

BY	DESCRIPTION	REV	DATE

PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect

PREPARED FOR: McDonald's USA, LLC

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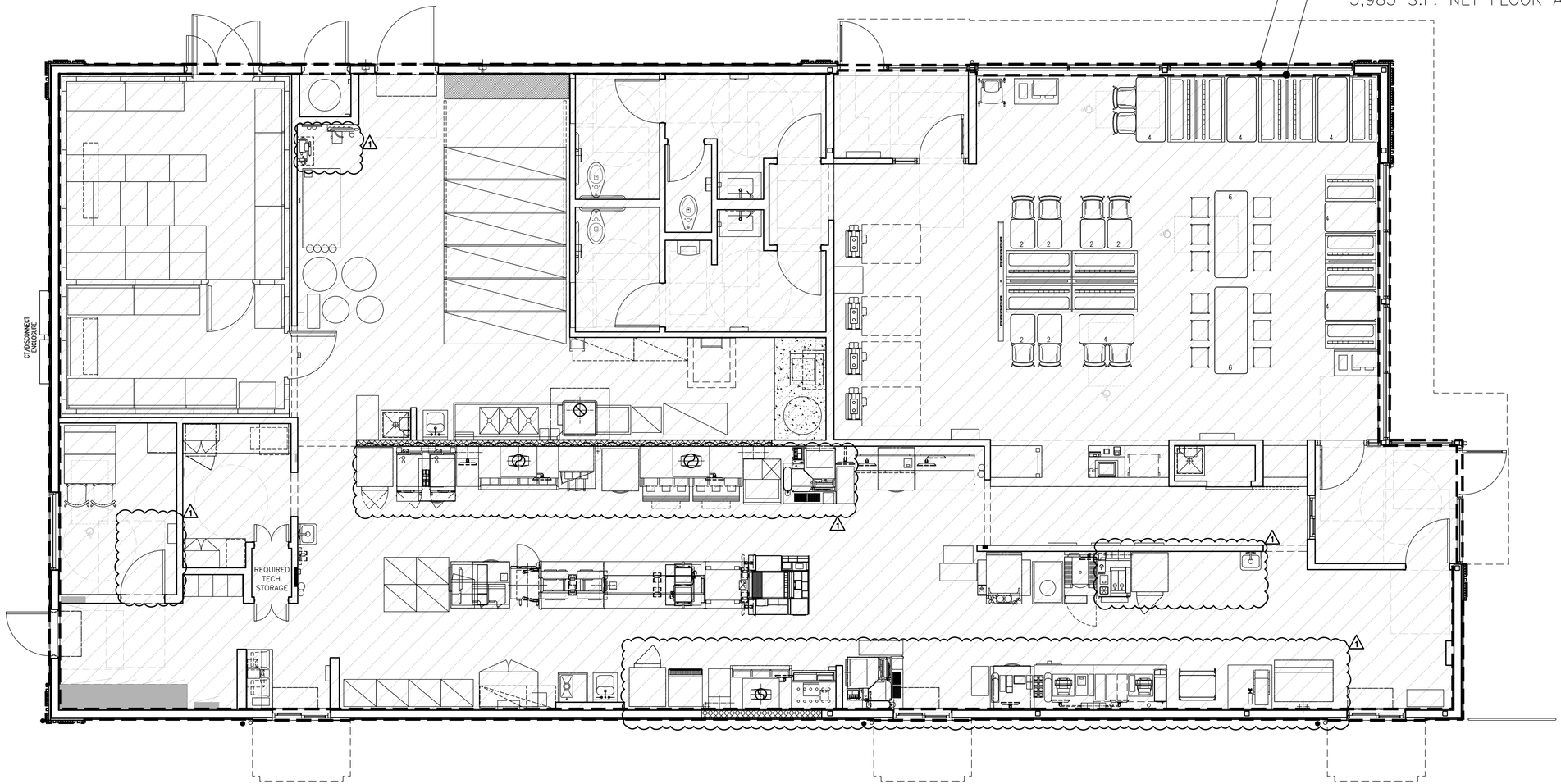
DRAWN BY	STD ISSUE DATE
JAW	2026
REVIEWED BY	DATE ISSUED
JAW	04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS, WOOD ROOF TRUSS FRAMING
SITE ID: 024–1323
SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

JAWA 26–0041

SHEET NO.: DT1.0
DRIVE–THRU DETAILS

BASE BUILDING:
4,181 S.F. GROSS BUILDING AREA
3,985 S.F. NET FLOOR AREA



1 / R1.0 **SQUARE FOOTAGE PLAN**
1/4"=1'-0"

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-5387
Email: jeremy@jaw-work.com

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	JAW
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

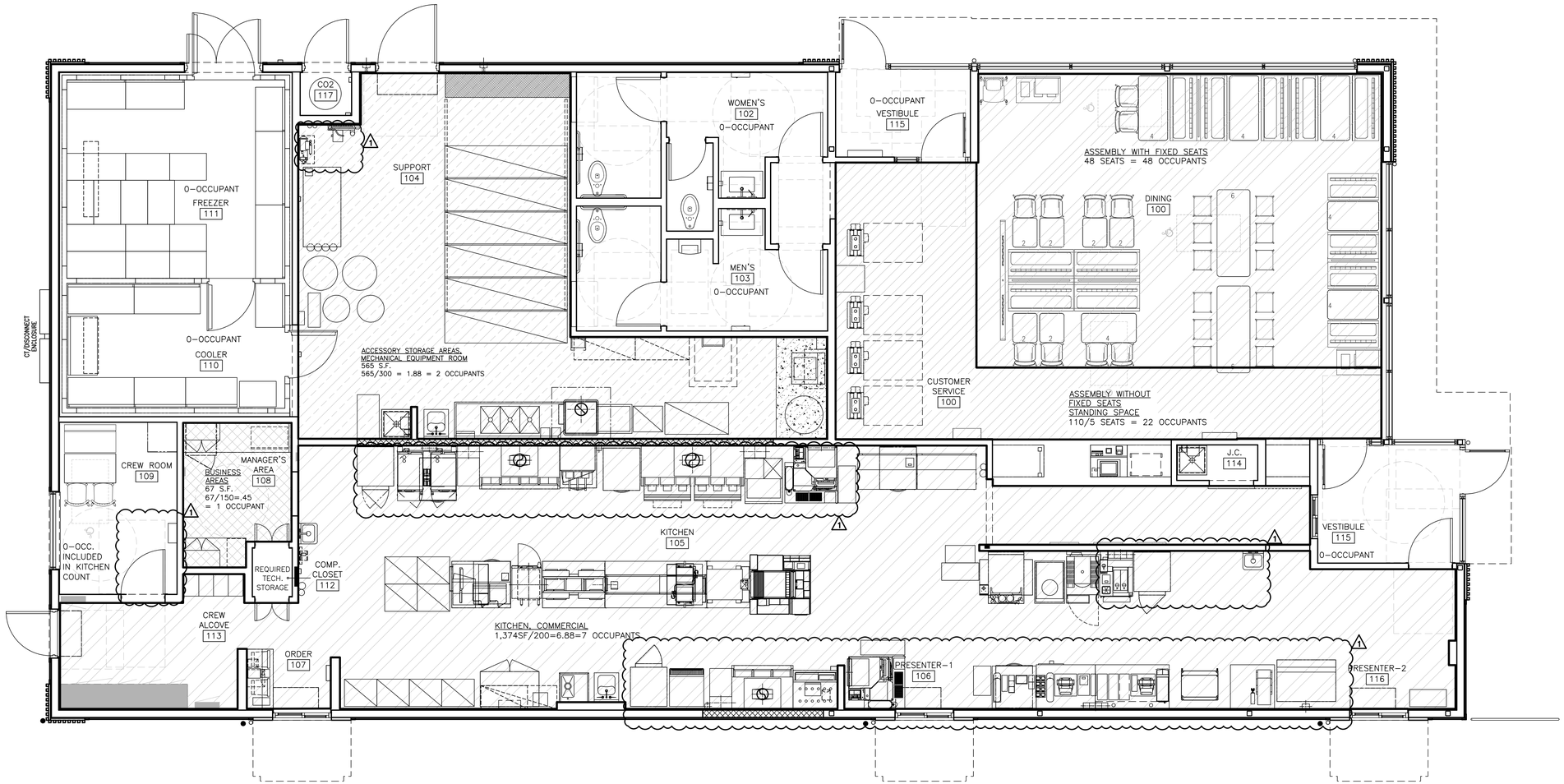
TITLE: 2026 STANDARD BUILDING – BB20 4590–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024-1329

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO.: JAWA 26-0041
R1.0
SQUARE FOOTAGE



1 R1.1 **OCCUPANCY COUNT PLAN**
1/4"=1'-0"

OCCUPANCY ALLOWANCE:

2018 INTERNATIONAL BUILDING CODE

TABLE 1004.5
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANTS	
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS	565 SF	2	
ASSEMBLY WITH FIXED SEATS	SEE PLAN	–	48	
ASSEMBLY W/OUT FIXED SEATS STANDING SPACE	5 NET	110 SF	22	
BUSINESS AREAS	150 GROSS	67 SF	1	
KITCHENS, COMMERCIAL	200 GROSS	1,374 SF	7	
TOTAL OCCUPANCY ALLOWANCE			80	

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED FOR: McDonald's

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PREPARED BY:

JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
Email: jeremy@jaw-arch.com

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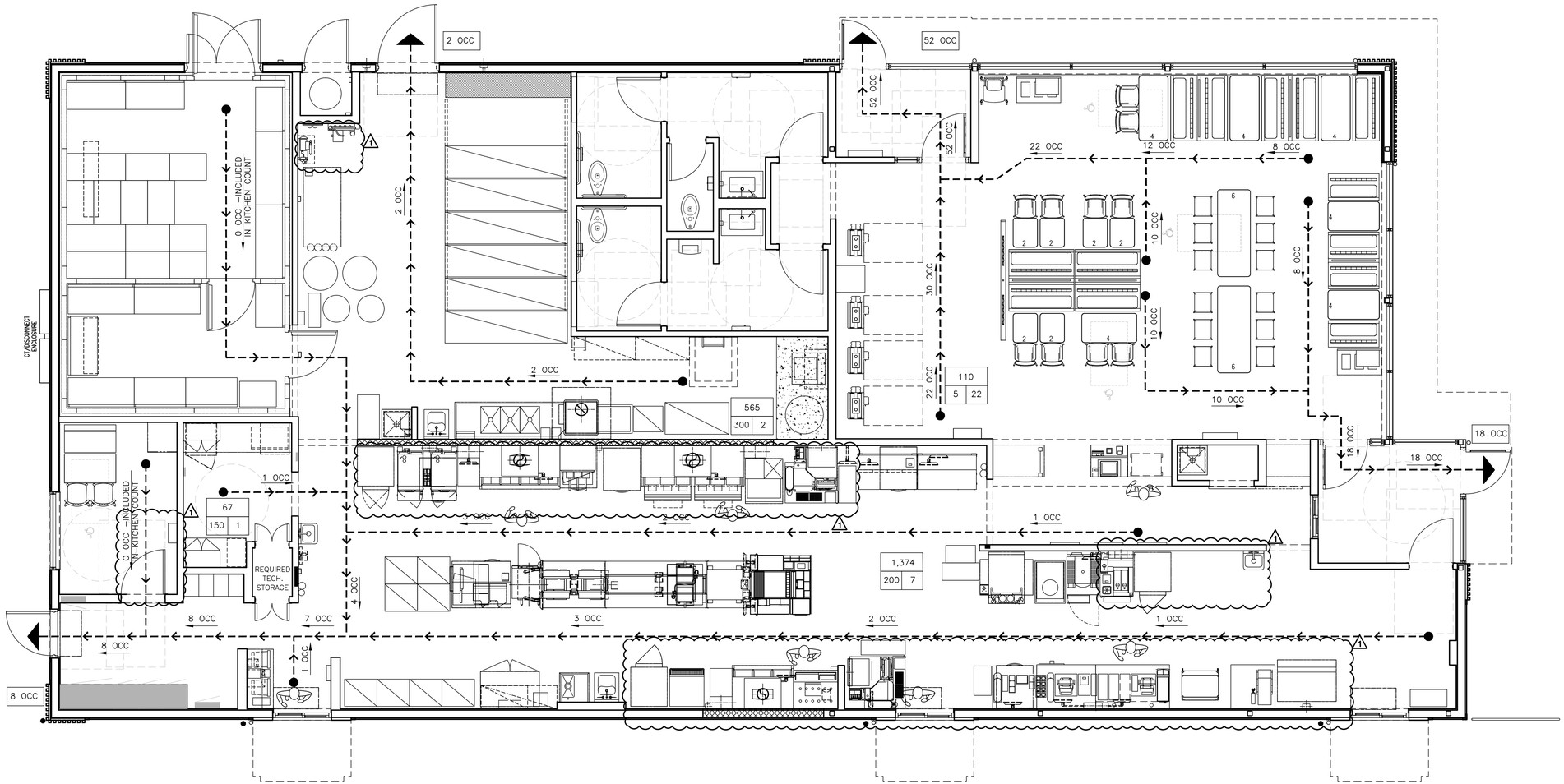
R1.1
OCCUPANCY PLAN



1 R1.2 **EXITING PLAN**
1/4"=1'-0"

OCCUPANCY ALLOWANCE:

2018 INTERNATIONAL BUILDING CODE

TABLE 1004.5
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Phone: 817-703-3387
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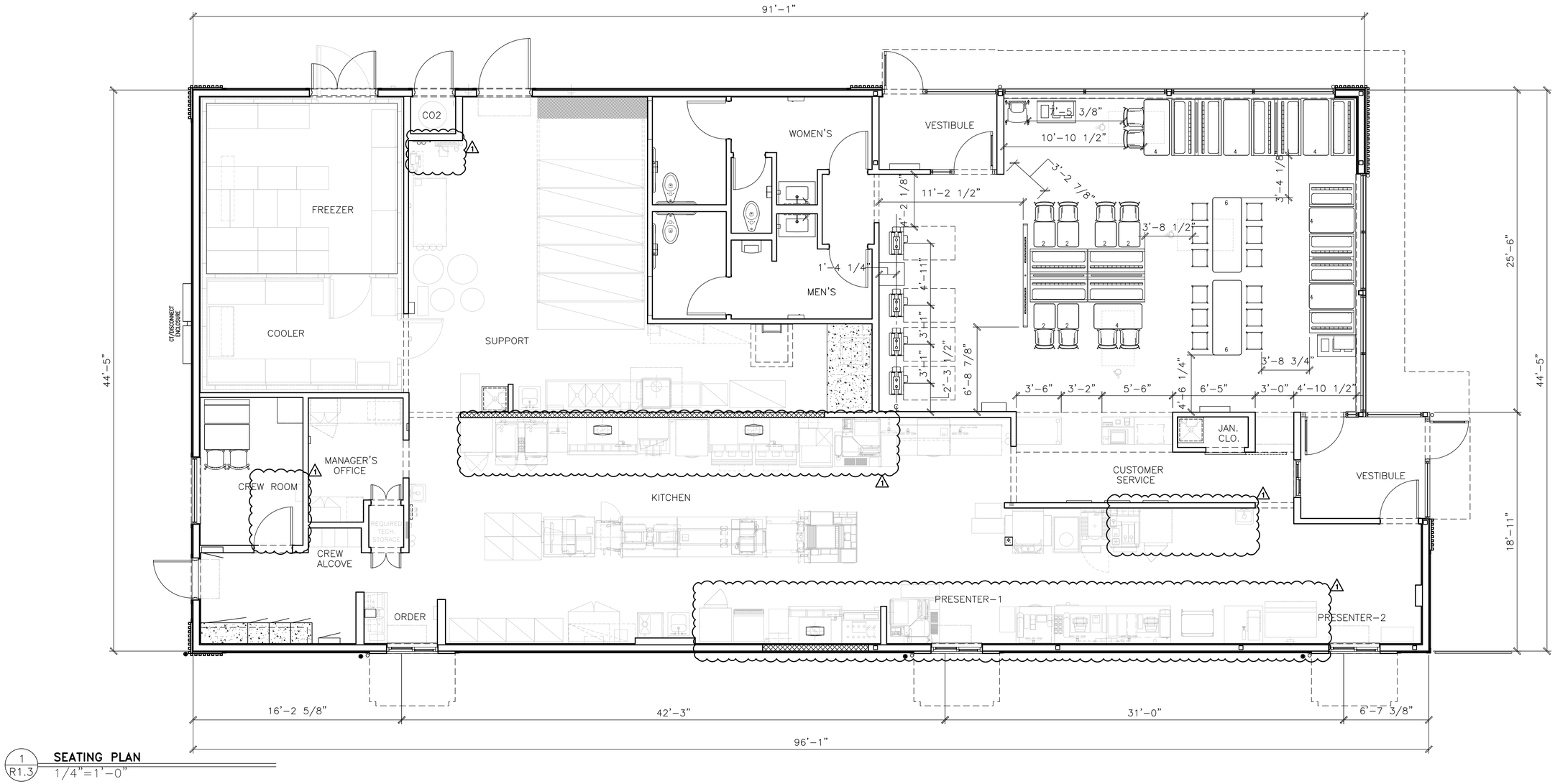
SHEET NO.: JAWA 26–0041
R1.2
EXITING PLAN



1 / R1.3 **SEATING PLAN**
1/4"=1'–0"

4590 - WW PLAN
4,181 GROSS SQ. FT. / 3,985 NET SQ. FT.
48 SEATS (3 ACCESSIBLE SEATS)

REV	DATE	DESCRIPTION	BY
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JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 417-725-5387
Email: jeremy@jaw-arch.com

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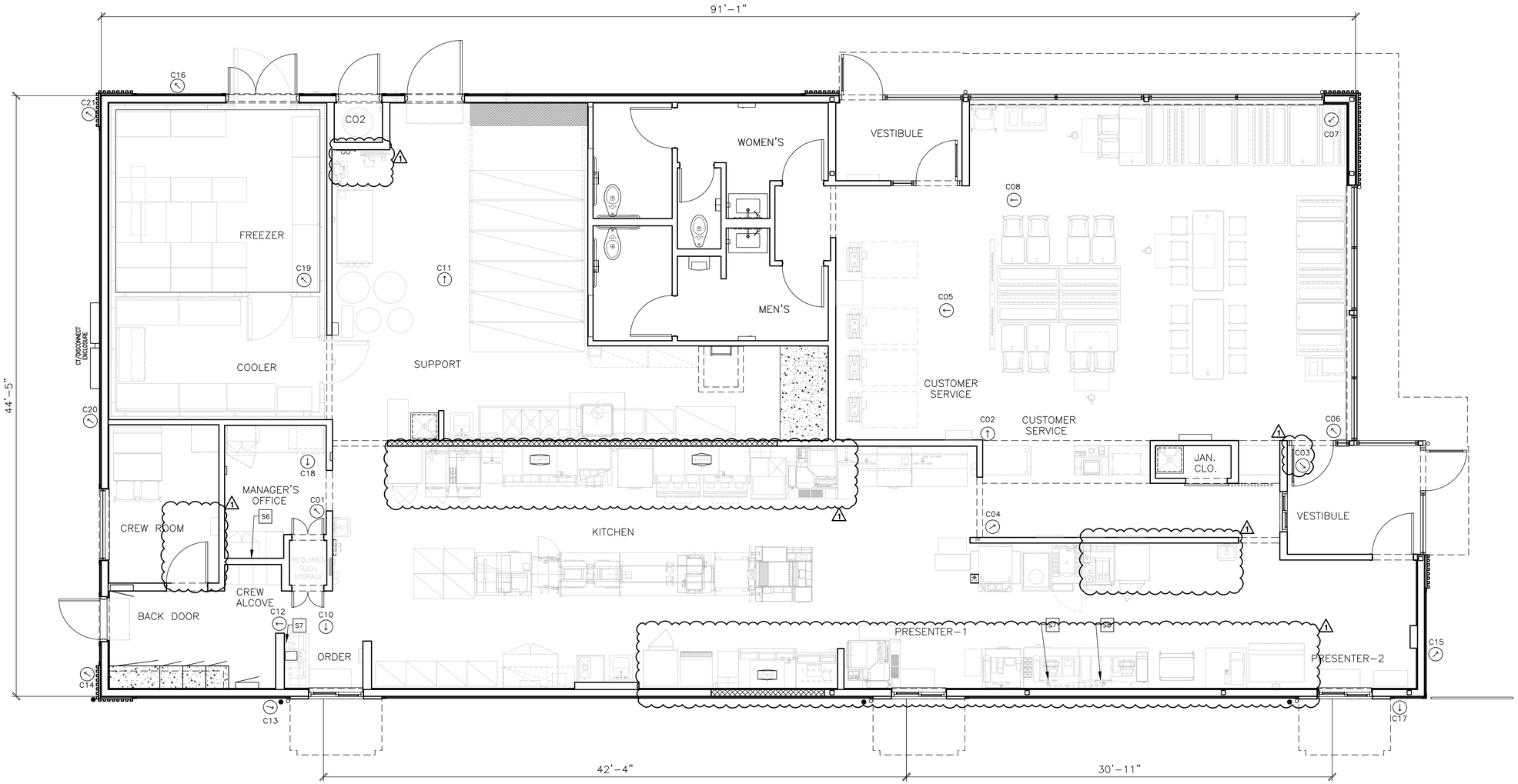
R1.3
SEATING PLAN



1 R1.4 **CCTV PLAN**
1/4"=1'–0"

IP–CCTV SCHEDULE:

CAMERA #	RESTAURANT AREA – CAMERA FOV	MODEL
1	OFFICE SAFE	QND-6011
2	PRIMARY CUSTOMER ENTRANCE	QND-6011
3	SECONDARY CUSTOMER ENTRANCE	QND-6011
4	FRONT COUNTER / REGISTERS	QND-6011
5	KIOSKS	QND-6011
6	MAIN DINING / LOBBY	QND-6011
7	MAIN DINING / LOBBY 2	QND-6011
8	RESTROOM ENTRANCE / SIDE DINING	QND-6011
9	PLAY PLACE INTERIOR / EXTERIOR (IF APPLICABLE)	QND-6011/ QNV-6012R1
10	CASH BOOTH ID	QND-6011
11	SIDE DELIVERY DOOR	QND-6011
12	DELIVERY BACKDOOR	QND-6011
13	DT LICENSE PLATE	QNV-6012R1
14	TRASH CORRAL	QNV-6012R1
15	FRONT PARKING LOT VIEW / CURBSIDE	QNV-6012R1
16	GENERAL PARKING LOT / DRIVE THRU ENTRANCE	QNV-6012R1
17	GENERAL PARKING LOT / DRIVE THRU EXIT / PULL FORWARD	QNV-6012R1
18	NETWORK CLOSET	QND-6011
19	FREEZER	QNV-6012R1
20	DANGER ZONE	QNV-6012R1
21	MERGE POINT	QNV-6012R1

IP–CCTV NOTES:

C1. GC TO CONSULT OWNER OPERATOR (O/O) FOR PREFERRED SECURITY LEVEL. REFER TO THE U.S. IP–CCTV MINIMUM REQUIREMENT FIELD OF VIEW (FOV) GUIDE. REFER TO PLUS UP GUIDE FOR OTHER OPTIONAL SECURITY FEATURES. MCDONALD'S US SECURITY REFERENCE GUIDE AVAILABLE ON @MCD US SECURITY WEBSITE.

C2. GC TO COORDINATE INSTALLATION WITH SECURITY INSTALLER.

C3. FOR IP–CCTV SPECIFICATIONS REFER TO THE U.S. IP–CCTV MINIMUM REQUIREMENT FIELD OF VIEW (FOV). MCDONALD'S US SECURITY REFERENCE GUIDE AVAILABLE ON @MCD US SECURITY WEBSITE.

C4. ROUTE DATA CABLE IN ACCORDANCE TO THE LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION ON E1.0.

C5. PARKING LOT IP–CCTV PLACEMENT WILL VARY BASED ON SITE LAYOUT. VERIFY IN FIELD.

C6. ADJUST INTERIOR IP–CCTV LOCATIONS BASED ON CEILING ELEMENTS AND DECOR PACKAGE SELECTED TO MAINTAIN FOV IN REFERENCE GUIDE.

SYSTEM NOTES:

S1. IP–CCTV CAMERA SYSTEM SHALL BE SERVER BASED AND HOUSED IN THE O/O EQUIPMENT RACK (221.09) SEPARATE FROM THE POS RACK. EQUIPMENT TO BE POWERED FROM O/O EQUIPMENT RACK PDU (900W).

S2. O/O EQUIPMENT WILL HAVE ITS OWN PATCH PANELS AND SWITCHES. DO NOT CONNECT TO THE POS SWITCHES.

S3. CAMERAS ARE POWERED OVER ETHERNET (POE) AND ARE POWERED FROM A POE SWITCH.

S4. CAMERA PLACEMENTS AND VIEWS SHALL ADHERE TO THE MCD US IP–CCTV MINIMUM STANDARD DOCUMENT.

S5. ALERT CAPABILITY TO BE PROVIDED FOR BACK DOOR EVENTS.

S6. 32 IN. MONITOR TO BE INSTALLED AT MANAGERS DESK. MONITOR TO BE CONFIGURED TO DISPLAY NINE VIEWS DETERMINED BY THE O/O WITH THE ABILITY TO DISPLAY ALL CAMERA VIEWS.

S7. 24 IN. MONITOR TO BE INSTALLED TO DISPLAY. MERGE POINT, DANGER ZONE, AND CURBSIDE CAMERAS. SEE 217.13 ON ELECTRICAL SHEETS.

S8. 24 IN. MONITOR TO DISPLAY PULL FORWARD CAMERA. SEE 217.13 ON ELECTRICAL SHEETS.

CAMERA SPECIFICATIONS:

LISTED BELOW ARE MCDONALD'S APPROVED IP–CCTV CAMERAS. THE BELOW SPECIFICATIONS MUST BE MET OR EXCEEDED BY ANY NEW CAMERAS.

HANWHA QND–6011

BEST FOR INTERIOR RESTAURANT USE SUCH AS DINING, KITCHEN, AND CREW AREAS

1. 2 MEGAPIXEL RESOLUTION
2. BUILT–IN 2.8MM FIXED LENS
3. ULTRA–COMPACT DESIGN
4. 30FPS@ALL RESOLUTIONS (H.265/H.264)
5. H.265, H.264, MJPEG CODEC SUPPORTED
6. ONVIF PROFILE S, ONVIF PROFILE G, AND ONVIF PROFILE T
7. MULTIPLE, INDIVIDUALLY CONFIGURABLE VIDEO STREAMS
8. FULL NDAA COMPLIANCE
9. DAY & NIGHT (ICR), WDR (120DB)
10. DEFOCUS DETECTION, MOTION DETECTION, TAMPERING DETECTION
11. PEOPLE COUNTING FOR RETAIL BUSINESS INTELLIGENCE
12. MICRO SD (128GB) MEMORY SLOT, POE / 12V DC
13. HALLWAY VIEW SUPPORT
14. IP42, IK08 RATED
15. LDC SUPPORT (LENS DISTORTION CORRECTION)
16. GENETEC STRATOCAST COMPATIBLE

HANWHA QNV–6012R1

BEST FOR ENVIRONMENTAL AREAS SUCH AS DRIVE–THRU, PARKING LOT, AND FREEZER/WALK–IN COOLER AREAS

1. MAXIMUM 2MEGAPIXEL (1920 X 1080) RESOLUTION
2. 0.03LUX (COLOR), 0LUX (B/W, IR LED ON)
3. 2.8MM FIXED LENS
4. MAXIMUM 30FPS@2MP ALL RESOLUTIONS (H.265/H.264)
5. H.265, H.264, MJPEG CODEC SUPPORTED
6. ONVIF PROFILE S, ONVIF PROFILE G, AND ONVIF PROFILE T
7. MULTIPLE, INDIVIDUALLY CONFIGURABLE VIDEO STREAMS
8. FULL NDAA COMPLIANCE
9. MOTION DETECTION, TAMPERING, DEFOCUS DETECTION
10. HALLWAY VIEW (90/270), LDC SUPPORT
11. MICRO SD/SDHC/SDXC MEMORY SLOT (MAX. 128GB)
12. IR VIEWABLE LENGTH 20M
13. IP66, IK10, POE, 12VDC

RECOMMENDED IP–CCTV VENDORS:

UAS
PHONE: 800–421–6661
EMAIL: CHRIS.MCGURK@UAS.COM

WACHTER
PHONE: 800–462–9638
EMAIL: MCDINSIDESALES@WACHTER.COM

RECORDING APPLIANCE/SERVER AND VIDEO MANAGEMENT SOFTWARE SPECIFICATIONS:

THE MINIMUM TECHNICAL SPECIFICATIONS THAT ANY NEW VMS SYSTEM MUST MEET ARE LISTED BELOW.

1. VIDEO RETENTION: AT LEAST 30 DAYS OF STORAGE*
2. CROSS–PLATFORM: LINUX (UBUNTU, CENTOS, REDHAT) OR WINDOWS (CLIENT, SERVER)
3. WEB BROWSER BASED: NO CLIENT SOFTWARE NEEDED – ACCESS ANYWHERE FROM ANYWHERE (PC, MAC, OR MOBILE)
4. QUICK SOFTWARE INSTALLATION: 5 MINUTES OR LESS (NO WINDOWS DEPENDENCIES)
5. SECURE: SRTP ENCRYPTED VIDEO TRANSMISSION, HTTPS SECURE USER INTERFACE
6. NETWORK OPTIMIZED: PEER–TO–PEER VIDEO TRANSMISSION ACROSS SUBNETS W/ WEBRTC
7. SCALABILITY: FEDERATE TO EITHER THE ENTERPRISE OR CLOUD
8. HARDWARE INDEPENDENT: X86_64, ARM, MIPS (APPLIANCES, SERVERS, IOT DEVICES)
9. APPLICATION PARTNER PLATFORM: THIRD–PARTY API BASED INTEGRATION PLATFORM

*DATA AND IMAGE RETENTION SHOULD FOLLOW LOCAL OR COUNTRY DATA PROTECTION STANDARDS AND REGULATIONS. IT IS RECOMMENDED THAT ORGANIZATIONS HAVE A RETENTION POLICY. THEY SHOULD ONLY KEEP THE IMAGES FOR AS LONG AS NECESSARY TO MEET THE PURPOSE OF RECORDING THEM. IN THE ABSENCE OF STANDARDS AND REGULATIONS, BEST PRACTICES SUGGEST RETAINING IMAGES FOR A MINIMUM OF 30 DAYS IN A SECURE FORMAT BEFORE THEY ARE DELETED OR OVERWRITTEN.

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED BY:
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Jeremy Williams, Architect
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Email: jeremy@jaw-work.com

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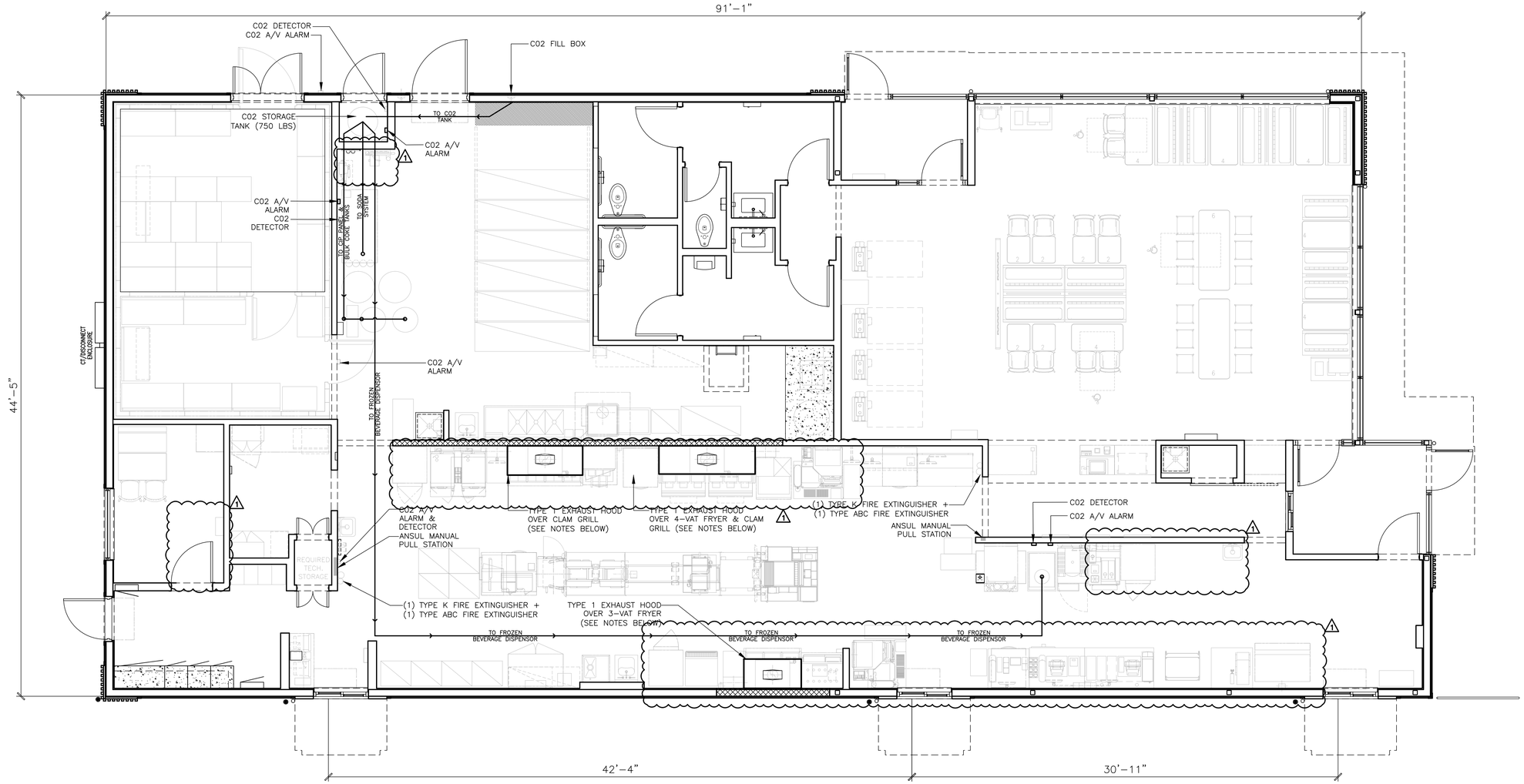
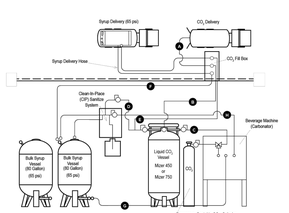
JAWA 26–0041

SHEET NO. R1.4
IP–CCTV PLAN



1 R1.5 **CO2 LAYOUT PLAN**
1/4"=1'–0"

McDonald's Beverage System Layout



Item	Description	Function
A	CO_2 delivery truck fill line	Periodic transfer of liquid CO_2 to on-site Mizer storage vessel
B	In-Store CO_2 fill line	Transfer of CO2 from outside fill-box to Mizer storage vessel
C	CO_2 gas-use line to beverage machine carbonator	CO_2 gas supply at 90 -110 psi for beverage carbonation
D	CO_2 gas-use line to bulk syrup and CIP	CO_2 gas supply at 65 psi to push syrup to beverage machine
E	CO_2 gas-use line to fill box 2-pin connection	CO_2 gas supply at 65 psi to pressurize bulk syrup delivery
F	Syrup delivery line	Bulk syrup delivery line routed through fill box conduit
G	Syrup supply tubing	Transfers syrup from bulk storage vessel to beverage machine
H	Water supply line	Supplies water to beverage machine and sanitation (CIP) system
44	Syrup Side Gas Use Regulator (65 psi)	Controls CO_2 pressure to bulk syrup
45	Beverage Side Gas Use Regulator (90-125 psi)	Controls CO_2 gas pressure to carbonator

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Carbo-Mizer 450 / 750 Vessel Specifications

	Carbo-Mizer 450	Carbo-Mizer 750
Dimensions		
Diameter	20 in (50.8 cm)	26 in (66 cm)
Height	71.8 in (182.8 cm)	73.3 in (187 cm)
Empty Weight	273 lb (124 kg)	430 lb (195 kg)
Full Weight	726 lb (329 kg)	1281 lb (581 kg)
Net Volume	48 gal (182 liters)	82 gal (310 liters)
CO_2 Storage Capacity (saturated @32 psig [8.4 bar g])	453 lb (205 kg)	771 lb (350 kg)
Gas Use Connection	1/4" & 3/8" Hose Barb	1/4" & 3/8" Hose Barb
Fill Line Connection	5/8" Male 45° Flare	5/8" Male 45° Flare
Vent Line Connection	1/2" OD Tubing	1/2" OD Tubing
Rates and Pressures		
CO_2 Delivery Rate Continuous*	5.1 lb/hr (2.3 kg/hr) (489 - 16oz drinks / hr)	10 lb/hr (4.5 kg/hr) (889 - 16oz drinks / hr)
Peak CO_2 Delivery Rate For One Hour*	10 lb/hr (4.5 kg/hr) (889 - 16 oz drinks)	18 lb/hr (8.2 kg/hr) (1600 - 16 oz drinks)
Evaporation Rate**	2.5 lb/day (1.1 kg/day)	3.0 lb/day (1.4 kg/day)
Max. Allowable Working Pressure (MAWP)	300 psig (20.7 bar g)	300 psig (20.7 bar g)
ASME Relief Setting	300 psig (20.7 bar g)	300 psig (20.7 bar g)
Additional. Relief Setting	450 psig (31.0 bar g)	450 psig (31.0 bar g)
Design Criteria	**Carbo-Mizer 450 & 750** (unless noted otherwise)	
Design Specifications	ASME Section VIII, Division 1	
Design Specifications	Meets with US and Canadian approvals	
Fill System	Single Line, pressure-differential	
Patented Impurity Collection System	Mizer 450 only	
Insulation Type	Vacuum with Super Insulation	
Pressure Control	Pressure Building (PB) Circuit	
Liquid Level Gauge	Float Type: Magnetic 'Roto-Cal'	
Outer Vessel Material	Stainless Steel	
Inner Vessel Material	Stainless Steel	
Floor-mount Design (Meets NSF standards)	Six-Inch Permanent Legs	

* Based on 15.25 lb of CO_2 / 1000 16 oz. drinks
** No loss in normal applications

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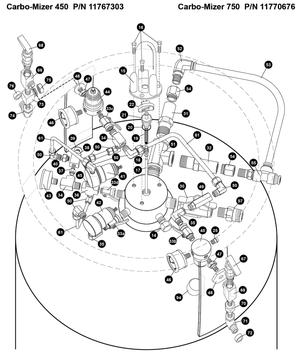
Vessel Parts Identification

McDONALD'S

Carbo-Mizer 450 P/N 11767303 **Carbo-Mizer 750 P/N 11770676**



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TYPE 1 COMMERCIAL EXHAUST HOODS

- APPLIANCE, HOOD PLENUM, AND EXHAUST DUCTWORK MUST BE PROTECTED BY A UL 300 AUTOMATIC WET CHEMICAL BASED FIXED FIRE EXTINGUISHING SYSTEM.
- ACTIVATION OF HOOD FIRE EXTINGUISHING SYSTEM SHALL SHUT OFF FUEL AND /OR CURRENT SUPPLY TO COOKING EQUIPMENT AND ELECTRIC RECEPTACLES LOCATED UNDER THE HOOD.
- INSTALLATION MUST BE BY A STATE LICENSED FIRE PROTECTION CONTRACTOR, AND THE HOOD SYSTEM SHALL BE CONNECTED TO THE BUILDING'S FACP, IF THE BUILDING REQUIRES A FIRE ALARM SYSTEM, IFC 904.2.2.
- REFERENCE MECHANICAL DRAWINGS OF EXHAUST DUCTWORK NOTES/DETAILS.

FIRE EXTINGUISHERS:

- PROVIDE PORTABLE FIRE EXTINGUISHERS (NOT LESS THAN 2–A:10–B:C) WITHIN 75 FEET OF ANY POINT IN THE BUILDING, MEASURED ALONG THE PATH OF TRAVEL, IFC 906.1.
- PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A TYPE K RATING, WITHIN 30 FT. OF THE COMMERCIAL COOKING APPLIANCES, THE TYPE K EXTINGUISHER IS IN ADDITION TO THE PORTABLE FIRE EXTINGUISHERS WITH A MINIMUM RATING OF 2–A:10–B:C PROVIDED WITHIN A 75 FT. TRAVEL DISTANCE OF ANY POINT IN THIS FACILITY, IFC 904.12.5.

ANSUL MANUAL PULL STATIONS:

- PROVIDE MANUAL ACTUATION DEVICES (PULL STATIONS) FOR OPERATION OF HOOD EXTINGUISHING SYSTEM.
- DEVICE SHALL BE LOCATED AT OR NEAR A MEANS OF EGRESS FROM THE APPLIANCES BELOW THE TYPE 1 KITCHEN HOOD NOT LESS THAN 10 FEET AND NOT MORE THAN 20 FEET PER IFC 904.13.1

CO2 STORAGE TANK (SEE DETAILS BELOW):

- CARBON DIOXIDE SYSTEMS OVER 101 LBS. USED IN BEVERAGE DISPENSING APPLICATIONS MUST COMPLY WITH THE IFC SECTION 5307, NFPA 55, AND CGA G 6.1 AS APPLICABLE.

BULK OIL STORAGE (SEE DETAILS ON R1.5 & R1.6):

- THE STORAGE OF BULK COOKING OILS FOR USE OR WASTE SHALL COMPLY WITH THE REQUIREMENTS OF THE 2021 INTERNATIONAL FIRE CODE SEC. 607 AND CHAPTER 57 AS REQUIRED FOR A CLASS IIIB LIQUID.
- STORAGE TANKS MUST BE INSTALLED ACCORDING TO SEC. 5704 OF THE IFC.

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SHEET NO. R1.5
C02 LAYOUT PLAN

JAWA 26–0041

CO2 MK90-SA STAND-ALONE SENSOR SET (2090)

CO2 Mk90 Sensor including Horn/Strobe

TECHNICAL DATA CO2 MK90 DETECTOR SET

Operating Principle:	Non-dispersive infrared (NDIR)
Measurement range:	0.00 to 6,7% volume CO2
Operating temperature:	0 to 45°C (Sensor works from -20°C but values valid only for 0-45 °C)
Operating humidity:	0-95% RH non condensed
Storage temperature:	-40 to + 70 °C
Power supply:	24V DC ± 10%
Power consumption:	117 mA peak, 56 mA average
Serial communication:	Modbus protocol over RS485
Output:	Two 24 volt transistor outputs
Automatic calibration:	Several times per year
Dimensions (LxWxD):	90 x 161 x 38 mm / 3.5" x 6.3" x 1.5"
Ingression protection:	IP54

TECHNICAL DATA HORN/STROBE

Nominal voltage:	18-24V DC
Average current:	120 mA @ 24V DC supply
Decibel:	110 dB / 1 m
Flash intensity:	115 CD
Flash frequency:	65/min
Ambient temperature:	-5°C to +50°C (+23°F to +122°F)
Dimensions (LxWxD):	134 x 115 x 61 mm / 5.3" x 4.5" x 2.4"
Ingress protection:	IP65

FUNCTION

The Mk90 is a CO2 monitor with integrated sound and light Alarm indication, designed to measure CO2 concentration in a confined space environment. It provides an alarm in the event that a CO2 level considered unhealthy/dangerous is reached, in accordance with existing safety codes, in the area being monitored.

Installed properly, the Mk90 will continuously monitor the CO2 concentration that it is exposed to. A light emitting diode (LED) indicates that the Mk90 is running properly. The Mk90 performs a self-calibration at regular intervals insuring calibration under normal circumstances. This eliminates the need of manual calibration in a normal enviroment. The sensor uses infrared analysis for detecting CO2.

ALTITUDE ADJUSTMENT

The Mk90 CO2 sensor has a manual altitude adjustment.

ALARM LEVELS

The alarm levels can be changed to any level to comply with all local Safety Codes and legislations.

The default CO2 alarm leves are:

5 000 ppm	CO2 Awareness indication
5 000 ppm	TWA Alarm/8h (PEL)
1.5% (15 000 ppm)	Low-Alarm ½ STEL
3.0% (3 0000 ppm)	High-Alarm STEL

APPROVALS

CE, EN55022 :2006/A1 :2007, EN55024/A2 :2003, EN61000-3-2 : 2006, EN61000-3-3/A2 :2006, AS/NZS CISPR 22 :2006, IEC/EN :IT55022/55024, LNE Règle de certification NF 128 rev 12 Nov 2007 (§2.1.2.4.3.) for the S8 CO2 Sensor Module. UL Certified. DIN6653-2:2004-03.

In the United States, the ALERT Mk90 system is in compliance with International Fire Code (IFC) 2015 Edition Section 5307.5.2.2, CGA G-6.5 2013, NFPA 55 2013 Edition 13.2.2 and NBIC Part 1 Supplement 3 S 3.4, as well as OSHA – PEL (Permissible Exposure Limit) of TWA/8 hrs for CO2.

In compliance with EU Commission Directive 2006/15/EC of 7 Feb 2006.

CO2 Mk9 Sensor Add-on KIT (2117)

with amber Horn/Strobe, for LogiCO2 Safety System

TECHNICAL DATA

Power supply:	12-24V DC
Power consumption:	155 mA peak
Communication:	RS485 Modbus
Automatic calibration:	Several times a year

For further data see separate data sheets for the specific components.

ORDERING EXAMPLE	
Description	**Item code**
CO2 Mk9 Sensor kit	2117
CO2 Mk9 Sensor kit consists of:	
CO2 Sensor Mk9	
Cable red 10m	
Cable blue 5m	
Horn/Strobe LED amber with 1m cable	
RJ45 1-1 split	
RJ45 1-4 split	
Bag with 6 screws and plug	
Sign Sensor	
Sign Horn/strobe	
Installation manual Mk9	
Quick-guide Mk9	

FUNCTION

The Carbon Dioxide (CO2) Safety System is designed to measure CO2 concentration in a confined space environment. It provides an alarm in the event that a CO2 level considered unhealthy/dangerous in accordance with existing safety codes, in the area being monitored.

The CO2 Sensor KIT is a precision instrument comprising one Sensor Unit and one Horn/Strobe. The CO2 Sensor KIT is an add-on sensor for an existing Safety System and it is pre-set with the address: ID2. The CO2 Sensor KIT receives it's power from the existing Safety System. The Safety Systems Central Unit must be set to receive measuring values from two Sensors. See section "DIP-switch settings, Number of connected sensors" in the CO2 Safety System's User's Manual.

When installed properly, the CO2 Safety System will continuously monitor the CO2 concentration and temperature wherever a sensor unit is located. A green light emitting diode (LED) on the central unit indicates normal safe conditions. If ambient conditions at the CO2 Sensor reach a CO2 concentration level of 1.5% (preset low alarm), the central unit will emit an intermittent audible tone and the « low alarm » red LED will blink. A remote Horn/Strobe will flash. This will also happen if the TWA for 8 hours also surpasses 5000 ppm. The difference can be acknowledged on the display.
If ambient conditions at the CO2 Sensor reach a CO2 concentration level of 3.0% (preset high alarm), the central unit will emit a constant audible tone and the « high alarm » red LED lights. A remote Horn/Strobe will flash and sound.

APPROVALS

CE, EN55022 :2006/A1 :2007, EN55024/A2 :2003, EN61000-3-2 : 2006, EN61000-3-3/A2 :2006, AS/NZS CISPR 22 :2006, IEC/EN :IT55022/55024, LNE Règle de certification NF 128 rev 12 Nov 2007 (§2.1.2.4.3.) for the S8 CO2 Sensor Module. UL Certified. DIN6653-2:2015-06.

In the United States, the Mk9 system is in compliance with International Fire Code (IFC) 2015 Edition Section 5307.5.2.2, CGA G-6.5 2013, NFPA 55 2013 Edition 13.2.2 and NBIC Part 1 Supplement 3 S 3.4.

In compliance with EU Commission Directive 2006/15/EC of 7 Feb 2006 as well as OSHA – PEL (Permissible Exposure Limit) of TWA for CO2.

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Horn/Strobe LED amber glass Add-on KIT (1172)

with blue indicator, for LogiCO2 Safety Systems

FUNCTION

Horn/Strobe LED amber glass is a combined horn and strobe with a blue power LED indicator.

Observe!

The Horn/Strobe has two separate inputs, one for low alarm – Flashing Strobe and one for high alarm – Sounding Horn.

The Horn/Strobe is delivered with 1 meter (3 feet) pre-connected cable, a splitter, an extra 10 meter (33 feet) connection cable and a warning sign.

TECHNICAL DATA

Power supply:	18-24V DC
Power consumption:	80 mA peak @ 24V DC supply
Decibel:	110 dB / 1 m (High-Alarm)
Flash intensity:	115 CD (Low-Alarm)
Flash frequency:	65/min
Ambient temperature:	-5°C to +50°C (+23°F to +122°F)
Dimensions (LxWxD):	134 x 115 x 61 mm / 5.3" x 4.5" x 2.4"
Ingress protection:	IP65

ORDERING EXAMPLE	
Item code	**Description**
1172	Extra Horn/Strobe LED amber glass KIT, with blue indicator
Extra H/S LED KIT consists of:	
Horn/Strobe LED amber glass with blue indicator, incl. 1m cable	
RJ45 splitter 1-2	
Cable RJ45 10m Blue plugs	
Sign CO2 H/S B EN	

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MCDONALDS CO2 COMPONENT CUT SHEETS

THE GENERAL CONTRACTOR WILL BE UTILIZING THESE EXACT SYSTEM PARTS/PIECES TO ENSURE CODE COMPLIANCE

Carbo Series Bulk CO_2 Systems

Serving a variety of markets and usage requirements, Carbo Series bulk CO_2 systems meet the unique demands of every customer.

Carbo Series systems eliminate run-outs, allowing your focus to be on customer sales rather than operations. One Carbo Series bulk system meets all of your CO_2 requirements. The vessel requires no employee handling, continuously supplying CO_2 for a variety of applications.

Product Advantages

- **Stationary, automatic system** 100% stainless steel vessel construction, permanently installed and self-contained with no electricity required for dispense.
- **Maximizes limited space** One system replaces all of your high-pressure cylinders, using less than 3 square feet of floor space.
- **Sized to match usage needs** Available in a variety of sizes, the Carbo Series systems will meet the unique demands of your business.
- **Entire line of Carbo Series beverage CO_2 tanks** have been certified to meet NSF International (NSF) standards, supporting growing global food safety initiatives within the beverage industry.

SPECIFICATIONS

Model	300	450	550	600	750	750HF	1000HF
DIMENSIONS							
Diameter	20 in	20 in	22 in	22 in	26 in	30 in	
Height (with legs)§	55.625 in	71.875 in	72.9 in	75.938 in	73.875 in	72.5 in (no legs)	
DESIGN CRITERIA							
Code	ASME*	ASME*	ASME*	ASME*	ASME*	ASME*	ASME*
MAWP	300 psig	300 psig	300 psig	300 psig	300 psig	300 psig	300 psig
Insulation Type	SI †	SI †	SI †	SI †	SI †	SI †	SI †
CAPACITY							
Net Volume	32 gal	48 gal	62 gal	65 gal	82 gal	82 gal	118 gal
Storage Capacity at 125 psig	299 lb	477 lb	584 lb	612 lb	789 lb	789 lb	1000 lb
PERFORMANCE							
Minimum Usage (No Venting)Δ	2 lb/day	2.5 lb/day	2.5 lb/day	3 lb/day	3 lb/day	3 lb/day	3 lb/day
CO_2 Gas Delivery (Continuous)@	1.0 lb/hr	5.5 lb/hr	6.5 lb/hr	15 lb/hr	10 lb/hr	15 lb/hr	30 lb/hr
Peak Flow Rate$	3.0 lb/hr	10 lb/hr	10 lb/hr	40 lb/hr	15 lb/hr	40 lb/hr^	50 lb/hr@

§ Height without legs, subtract 6 in, @ 12 consecutive hours at room temperature, ^ Can achieve flows up to 40 lb/hr, for 12 consecutive hours continuous use. At these higher flow rates, gas supply temperatures from the tank will be lower than freezing (32°F). Additional external vaporization should be added to achieve gas temperatures above freezing (32°F). * ASME Boiler and Pressure Vessel Design Section VIII, Div. 1, † Super Insulation/High Vacuum, $ Four consecutive hours at room temperature, Δ No loss in normal applications

Bulk CO2 Systems

Chart systems provide carbon dioxide across a diverse range of applications including:

- Brewing
- Food freezing
- Concrete curing - CO2 reduces the curing time and cost of concrete pouring
- Vaccine storage
- Cannabis growing
- pH control of swimming pools
- Die cooling
- Dry ice pellets for fire fighting
- Stage productions

Our Carbo Series bulk CO2 cylinders are at the heart of the system. Constructed from high grade stainless steel, individual cylinder capacities range from 220 to 1000 lbs (100 to 454 kg).

There are two principal liquid CO2 delivery mechanisms. The Vertical Liquid CO2 Delivery unit (VLCD) is pallet based and ideal for new business start-ups, new installations, hot-shot deliveries and remote operations. For larger volume users Chart's best in class Orca™ MicroBulk delivery truck has been specially engineered for liquid CO2 cylinder filling.

REV	DATE	DESCRIPTION	BY

JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3307
Email: jeremy@jaw-work.com

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PREPARED FOR: McDonald's USA, LLC

PREPARED BY:

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DRAWN BY	STD ISSUE DATE
JAW	2026
REVIEWED BY	DATE ISSUED
JAW	04/15/2026

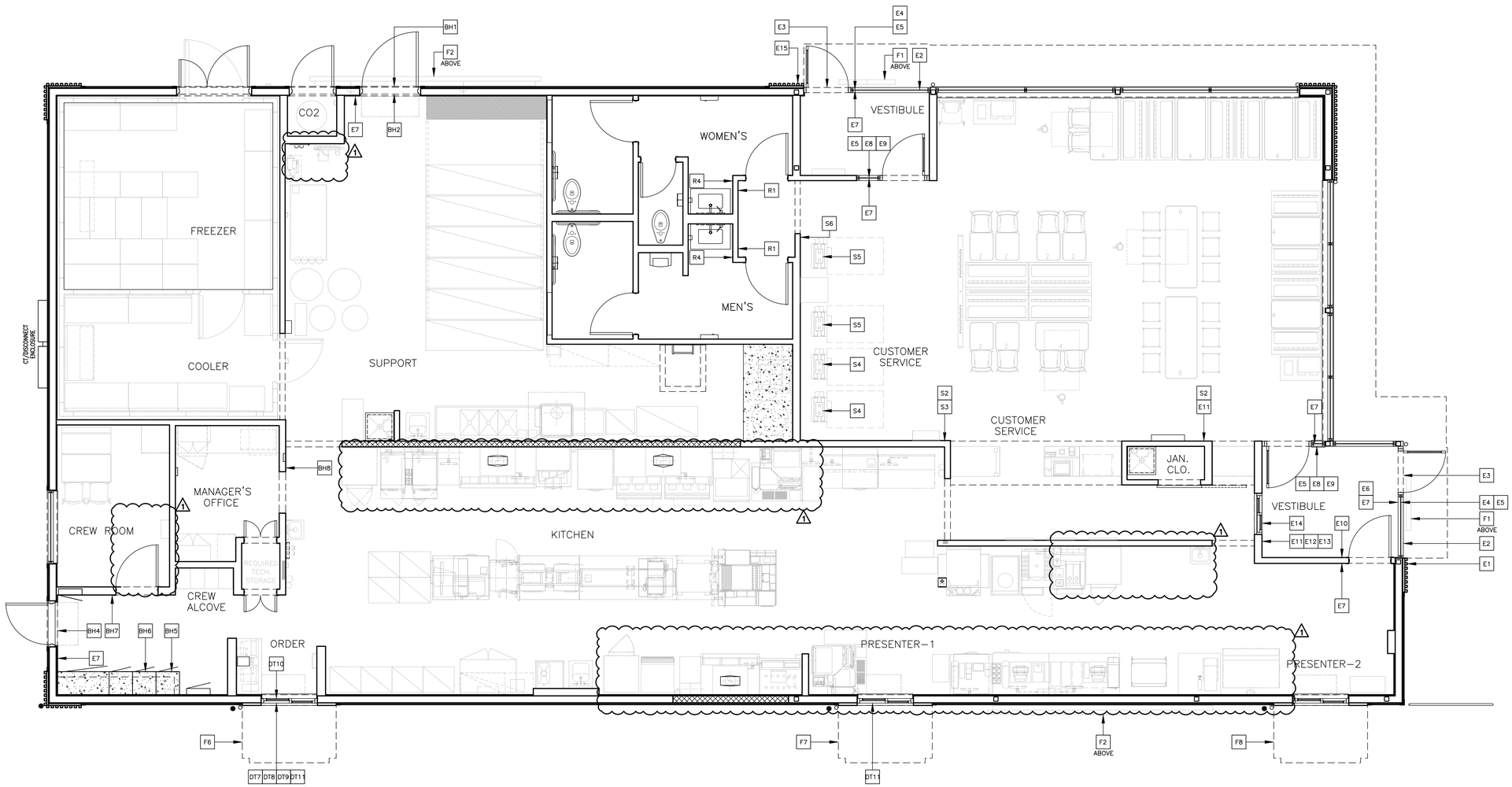
TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD

DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024-1329

SITE ADDRESS: SWC OF E. NEW MELVILLE RD. & S. HUNT RD. WILLARD, MO 65781

SHEET NO.: JAWA 26-0041
R1.6
CO2 DETAILS



1 R1.7 **SIGNAGE PLAN**
1/4"=1'–0"

SIGNAGE SCHEDULE

MARK	QUANTITY	DEFINITION	PROVIDER
E1	1	EXTERIOR DELIVERY BLADE SIGN	EVERBRITE/PERSONA
E2	2	WELCOME DECAL	FRANKE
E3	2	STORE HOUR DECAL	IMS
E4	2	HANDICAP DECAL (IF APPLICABLE)	FRANKE
E5	4	PULL SIGN	FRANKE
E6	1	DRIVE–THRU TRAFFIC DECAL	FRANKE
E7	6	EXIT SIGN	FRANKE
E8	2	BRAILLE MENU DECAL	FRANKE
E9	2	COMMUNICATION ASSIST. DECAL	FRANKE
E10	1	CREW ONLY SIGN	FRANKE
E11	2	MCDELIVERY TRIANGULAR SIGN	EIS/JBI
E12	1	MCDELIVERY WALK UP WINDOW SIGN	FRANKE
E13	1	RING BELL FOR ASSISTANCE SIGN	FRANKE
E14	1	MCDELIVERY WALK UP HOURS	FRANKE
E15	1	EXTERIOR MOBILE BLADE SIGN	EVERBRITE/PERSONA
S2	2	FULFILLMENT ASSISTANCE SIGN	FRANKE
S3	1	MOBILE PICK–UP TRIANGULAR SIGN	EIS/JBI
S4	2	KIOSK SIGN – CREDIT ONLY	FRANKE
S5	2	KIOSK SIGN – CASH CREDIT	FRANKE
S6	1	MAX OCCUPANCY SIGN	FRANKE

MARK	QUANTITY	DEFINITION	PROVIDER
R1	2	RESTROOM GENDER SIGNS	FRANKE
R4	2	EMPLOYEE WASH HANDS SIGN	FRANKE
BH1	1	RESTAURANT DELIVERY SIGN – SUPPLIER	FRANKE
BH2	1	RESTAURANT DELIVERY SIGN – CREW	FRANKE
BH4	1	REAR DOOR – CREW SAFETY SIGN	FRANKE
BH5	1	ELECTRICAL PANEL WARNING SIGN	FRANKE
BH6	1	ELECTRICAL PANEL INFO SIGN	FRANKE
BH7	1	CREW ROOM SIGN	FRANKE
BH8	1	MANAGER'S OFFICE SIGN	FRANKE
F1	2	BUILDING ARCHES	EVERBRITE/PERSONA
F2	2	BUILDING WORDMARK	EVERBRITE/PERSONA
F6	1	PAY HERE 1 DECAL	EVERBRITE/PERSONA
F7	1	PICK UP 2 DECAL	EVERBRITE/PERSONA
F8	1	PICK UP 3 DECAL	EVERBRITE/PERSONA
D1	2	48" NEXT GEN DIRECTIONAL ENTER	EVERBRITE/PERSONA
D2	2	48" NEXT GEN DIRECTIONAL EXIT	EVERBRITE/PERSONA
D3	2	48" NEXT GEN DIRECTIONAL WELCOME	EVERBRITE/PERSONA
D4	2	48" NEXT GEN DIRECTIONAL THANK YOU	EVERBRITE/PERSONA
D5	1	48" NEXT GEN DIRECTIONAL DRIVE–THRU	EVERBRITE/PERSONA

MARK	QUANTITY	DEFINITION	PROVIDER
I1	1	MONUMENT SIGN	EVERBRITE/PERSONA
I2	1	ROAD SIGN	EVERBRITE/PERSONA
I3	1	HIGHWAY SIGN	EVERBRITE/PERSONA
DT1	2	SINGLE ARM / DOUBLE ARM GATEWAY	EVERBRITE/PERSONA
DT2	1	ANY LANE, ANY TIME SIGN	EVERBRITE/PERSONA
DT3	2	PRE–BROWSE BOARD	EVERBRITE/PERSONA
DT4	2	SPRINGBOARD CANOPY	EVERBRITE/PERSONA
DT5	2	OUTDOOR DIGITAL MENU BOARD	EVERBRITE/PERSONA
DT6	1	COMMUNICATION ASSIST. SIGN	FRANKE
DT7	1	NO SOLICITING	FRANKE
DT8	1	BRAILLE MENU DECAL	FRANKE
DT9	1	COMMUNICATION ASSIST. DECAL	FRANKE
DT10	1	COMMUNICATION ASSIST. DECAL (CREW SIDE)	FRANKE
DT11	2	STORE HOUR DECAL	IMS
P1	2	ADA RESERVED PARKING	FRANKE
P2	1	VAN ACCESSIBLE	FRANKE
P3	2 MIN	DRIVE THRU RESERVED	EVERBRITE/PERSONA
P4	6	MOBILE ORDER CURBSIDE PICK UP	EVERBRITE/PERSONA
P5	2	MCDELIVERY COURIER RESERVED	EVERBRITE/PERSONA

SIGNAGE NOTES

1. SIGNAGE D1–D5, I1–I3, DT1–DT6, & P1–P5 LOCATIONS DEPENDENT ON SITE LAYOUT. SEE LOCATIONS IN MCDONALD'S RESTAURANT SIGNAGE GUIDELINES. COORDINATE WITH MCDONALD'S ACM.
2. SEE MCDONALD'S RESTAURANT SIGNAGE GUIDELINES FOR VISUAL REFERENCE OF SIGNAGE HEIGHTS, LOCATIONS, AND PLACEMENT.
3. SEE MCDONALD'S RESTAURANT SIGNAGE GUIDELINES FOR OPTIONAL AND NON–STANDARD SIGNAGE AVAILABILITY.

FRANKE ORDERING DETAILS

NEW RESTAURANT SIGNAGE PACKAGE
PURCHASE NUMBER: K194150
PHONE: 1(800)423–5247
FAX: 1(877)538–6882
ONLINE: WWW.FRANKESUPPLY.COM
EMAIL: FS–FRANKESUPPLY.US@FRANKE.COM

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817.703.5387
Email: jeremy@jaw-work.com

PREPARED BY:

PREPARED FOR: McDonald's USA, LLC

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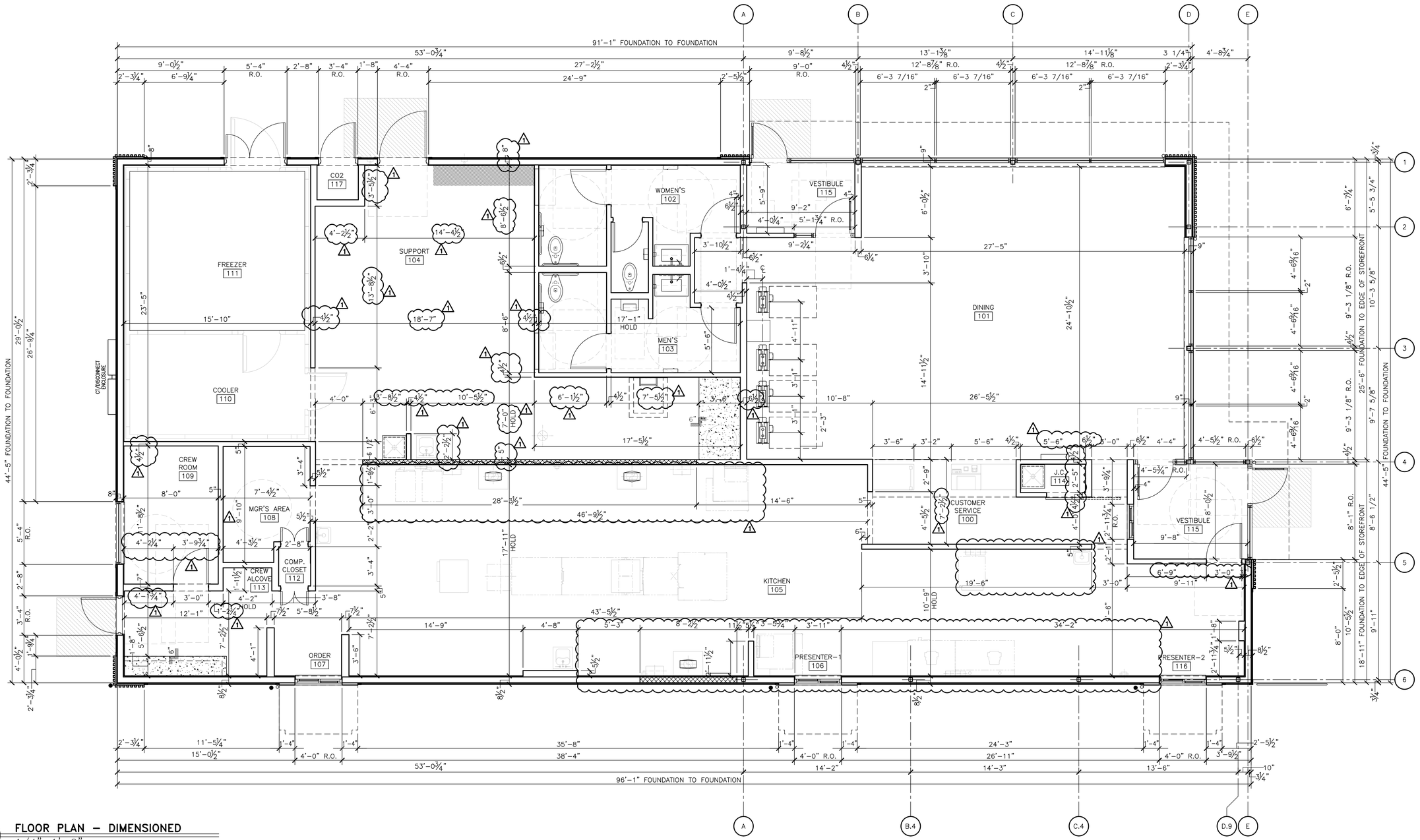
DRAWN BY: JAW
STD ISSUE DATE: 2026
REVIEWED BY: JAW
DATE ISSUED: 04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS, WOOD ROOF TRUSS FRAMING

SITE ID: 024–1329
SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO.: JAWA 26–0041
R1.7
SIGNAGE PLAN



1 / A1.0 **FLOOR PLAN – DIMENSIONED**

1/4"=1'-0"

GENERAL NOTES

1. EXTERIOR DIMENSIONS ARE TO COLUMN REFERENCE LINES AND EXTERIOR FACE OF FOUNDATION UNLESS OTHERWISE NOTED. INTERIOR DIMENSIONS ARE TO FACE OF INTERIOR WALL BOARD
2. SEE 4/A5.0 FOR EXTERIOR WALL ASSEMBLY TYPES. SEE 2/A1.1 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITIONS ARE TYPE 'A' UNLESS NOTED OTHERWISE.
3. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES
4. SEE SHEET A6.0 FOR DOOR AND ROOM FINISH SCHEDULES
5. SEE SITE PLAN FOR SIDEWALKS, RAMPS, ETC.
6. GC TO PROVIDE MAXIMUM OCCUPANCY SIGN AND ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY: FRANKE/S2K 1-800-423-5247 www.frankesupply.com email: fs-frankesupply.us@franke.com
7. ALL HANDSINK LOCATIONS SHALL HAVE CEMENT BOARD BACKING 48" IN HEIGHT A.F.F.
8. GC TO COORDINATE ALL REQUIRED BLOCKING FOR WALL HUNG EQUIPMENT, SHELVES, ETC. FOR PROPER INSTALLATION HEIGHTS.
9. KNOX BOX TO BE INSTALLED PER LOCAL CODE AS REQUIRED. MODEL AND LOCATION TO BE COORDINATED WITH FIRE MARSHALL.

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED BY:

JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
Email: jeremy@jaw-work.com

PREPARED FOR:
McDonald's USA, LLC

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4590-WOOD/WOOD

DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

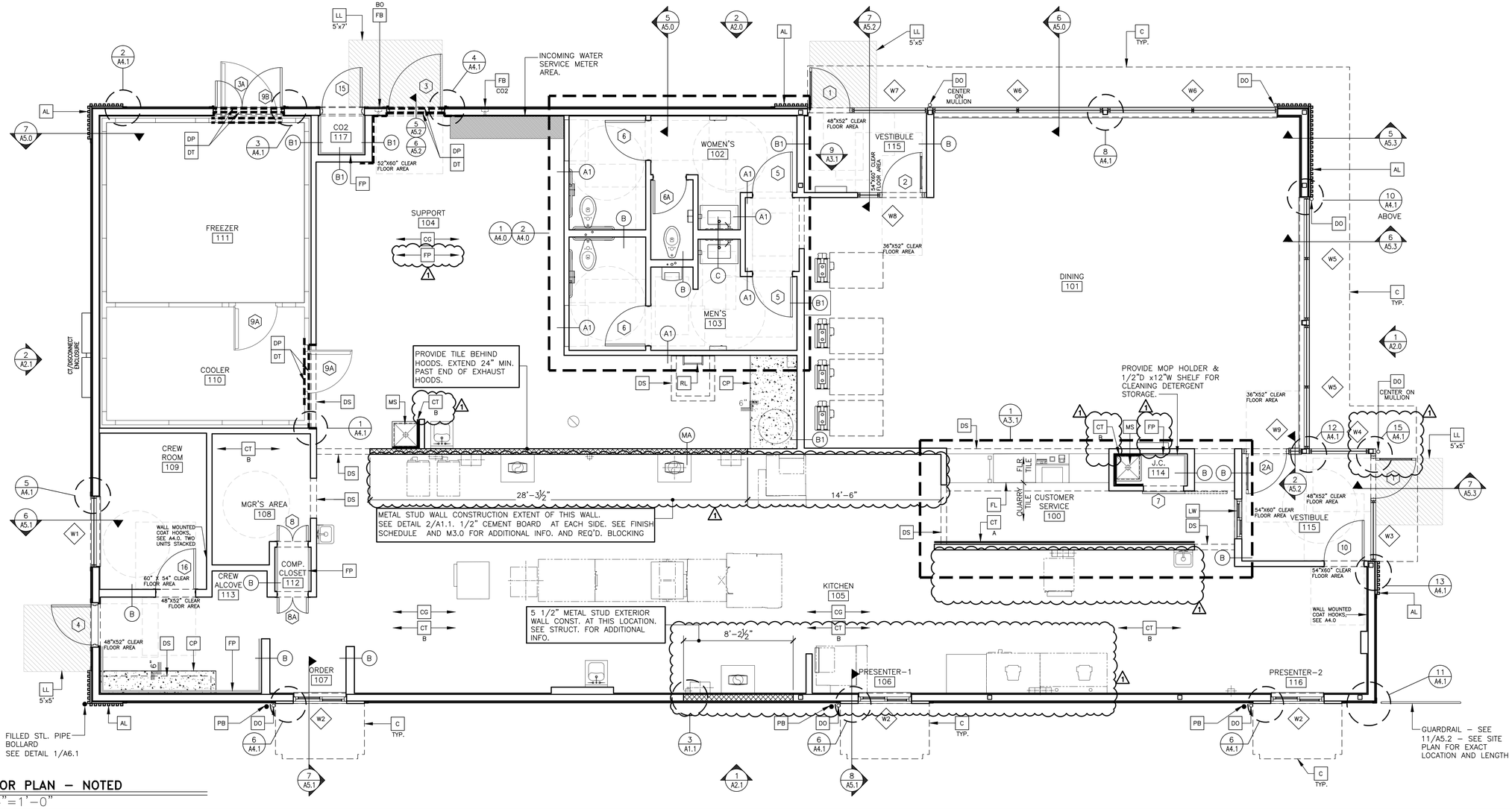
SITE ID: 024-1329

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

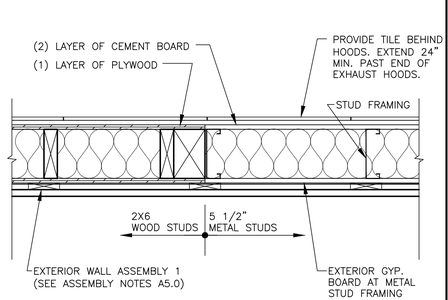
SHEET NO.: A1.0

JAWA 26-0041

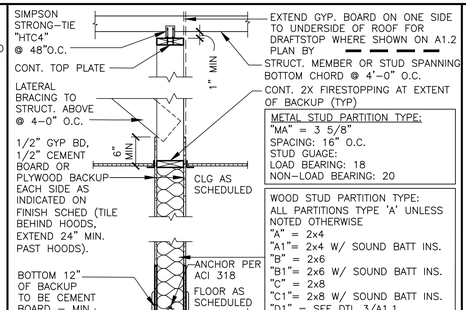
FLOOR PLAN



1 A1.1 **FLOOR PLAN – NOTED**
1/4"=1'-0"



3 A1.1 **TRANSITON DETAIL**
1 1/2"=1'-0"



2 A1.1 **INTERIOR PARTITION**
3/4"=1'-0"

KEY NOTES

- AL — ALUMINUM BATTEN SYSTEM. REFERENCE DETAIL 16/A4.1
- C — ALUMINUM CANOPY SYSTEM ABOVE – SEE 4/A5.0 FOR NOTES – SEE ROOF PLAN FOR DIMENSIONS, SEE ELEVATION FOR COLORS
- CG — G.C. TO PROVIDE 4"x4"x5'–0" HIGH STAINLESS STEEL CORNER GUARDS AT ALL EXPOSED LOCATIONS IN KITCHEN/SUPPORT AREA. CORNER GUARDS TO START AT FINISH FLOOR. ATTACH WITH SPECIALTY SCREW AND ANCHORS INTO TILE. BULLNOSE COVE BASE WHERE TILE MEETS STAINLESS STEEL CORNER
- CP — CONCRETE EQMT PAD – SEE STRUCTURAL
- CT A — WALL FINISH: PER DECOR PORTFOLIO SEE A3.1 AND A6.1 FOR FINISH INFORMATION
- CT B — WALL TILE: CROSSVILLE – COLOR BY NUMBERS COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND GROUT: MAPEI SILVER 27 – JOINT TO BE 1/16" MAX. USE THIS TILE WHEN HIGH LRV IS REQUIRED COORDINATE WITH McDONALD'S AREA CONSTRUCTION MANAGER
- DO — DOWNSPOUT CONNECTED TO CANOPY SYSTEM. SEE ELEVATIONS. COORDINATE CONNECTION WITH CIVIL.
- DS — DROPPED SOFFIT ABOVE – SEE REFLECTED CEILING PLAN
- DP — 48"Hx1/8" THICK DIAMOND PLATE WALL AND DOOR PROTECTION BY DIAMOND PLATE CONTRACTOR, COVER AREA SHOWN ON PLAN. (▬ ▬ ▬)
- DT — 3/16" THICK DIAMOND PLATE THRESHOLD BY DIAMOND PLATE CONTRACTOR DOOR 3: 12"x48" DOOR 3A/9B: 24"x60" DOOR 9A COOLER ENTRANCE: 12"x36"
- FB CO2 — CO2 FILL BOX (EQUIPMENT SCHEDULE ITEM 49.00)
- FB BO — OPTIONAL BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18) CONFIRM USE WITH MCDONALD'S AREA CONSTRUCTION MANAGER
- FL — FLOOR LINE – CHANGE IN MATERIAL – SEE DECOR DRAWINGS
- FP — FIBERGLASS REINFORCED PLASTIC (FRP) – PANOLAM, GRAY SMOOTH, CLASS A, .075. REFER TO ROOM FINISH SCHEDULE SHEET A6.1 FOR INSTALLATION LOCATIONS. FOR ORDERING, CONTACT KIMBERLY LAWSON Kimberly_Lawson@panolam.com 1–866–925–4377
- LL 5'x5' — LEVEL LANDING @ EXT. DOOR W/ MAX. 2% RUNNING/CROSS SLOPE AWAY FROM BUILDING SIZE OF LANDING
- LW — LATE–NIGHT WINDOW (OPTIONAL) BY READYACCESS, MANUAL OPEN/SELF CLOSE. SEE SHEET A3.1 FOR NOTES.
- MS — MOP SINK – SEE DETAIL 8/A6.1 AND PLUMBING DRAWINGS.
- PB — PIPE BOLLARD – USA 310–SD BASTION PAINT RAL 7022
- RL — ROOF ACCESS LADDER W/HATCH ABOVE SEE STRUCTURAL FRAMING PLAN FOR LOCATING DIMENSIONS

SYMBOL LEGEND

- (A) — PARTITION TYPE TAG SEE 2/A1.1
- (7) — DOOR TAG – SEE DOOR SCHEDULE ON A6.0
- (1) — WINDOW TAG – SEE WINDOW TYPES ON A6.0. SEE ELEVATIONS FOR COLOR
- (X) — KEY NOTE
- ▬ ▬ — DIAMOND PLATE PROTECTION
- ▬ — FIBERGLASS REINFORCED PLASTIC (FRP)

GENERAL NOTES

1. EXTERIOR DIMENSIONS ARE TO COLUMN REFERENCE LINES AND EXTERIOR FACE OF FOUNDATION UNLESS OTHERWISE NOTED. INTERIOR DIMENSIONS ARE TO FACE OF INTERIOR WALL BOARD
2. SEE 4/A5.0 FOR EXTERIOR WALL ASSEMBLY TYPES. SEE 2/A1.1 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITIONS ARE TYPE 'A' UNLESS NOTED OTHERWISE.
3. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES
4. SEE SHEET A6.0 FOR DOOR AND ROOM FINISH SCHEDULES
5. SEE SITE PLAN FOR SIDEWALKS, RAMPS, ETC.
6. GC TO PROVIDE MAXIMUM OCCUPANCY SIGN AND ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY: FRANKE/S2K 1–800–423–5247 www.frankesupply.com email: fs–frankesupply.us@franke.com
7. ALL HANDSINK LOCATIONS SHALL HAVE CEMENT BOARD BACKING 48" IN HEIGHT A.F.F.
8. GC TO COORDINATE ALL REQUIRED BLOCKING FOR WALL HUNG EQUIPMENT, SHELVES, ETC. FOR PROPER INSTALLATION HEIGHTS.
9. KNOX BOX TO BE INSTALLED PER LOCAL CODE AS REQUIRED. MODEL AND LOCATION TO BE COORDINATED WITH FIRE MARSHALL.

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED FOR: McDonald's USA, LLC

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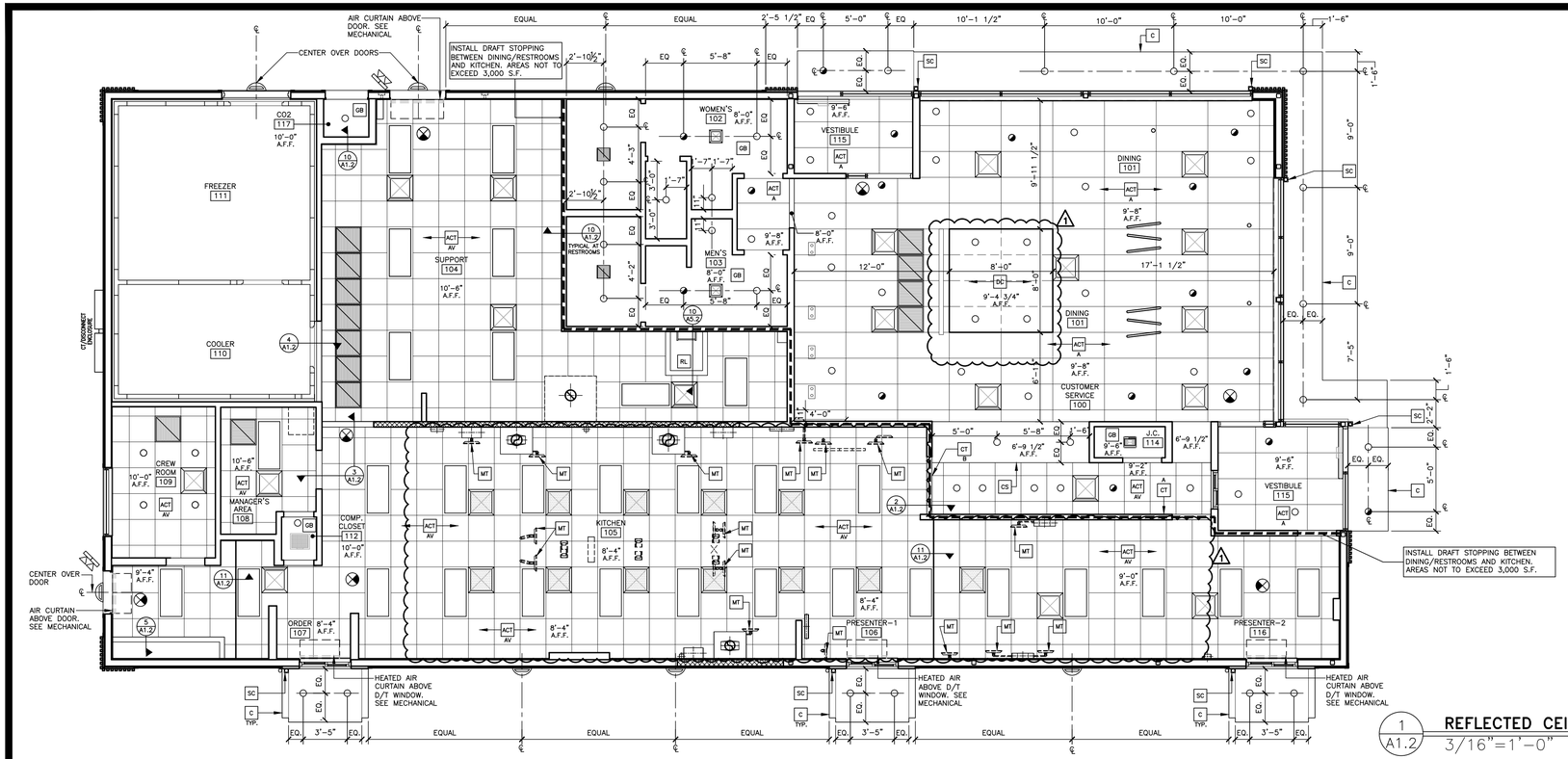
PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817.926.5387
Email: jeremy@jaw-work.com

DRAWN BY	REVIEWED BY
JAW	JAW
STD ISSUE DATE	DATE ISSUED
2026	04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS / WOOD ROOF TRUSS FRAMING
SITE ID: 024–1329
SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO. A1.1
FLOOR PLAN

JAW 26–0041



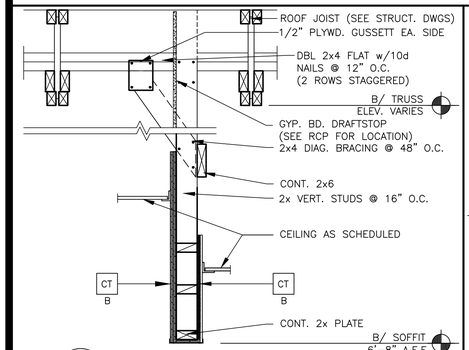
1 A1.2 **REFLECTED CEILING PLAN**
3/16"=1'-0"

KEY NOTES

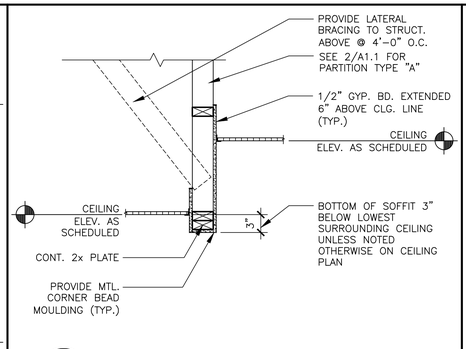
- ACT A — ACOUSTICAL CEILING TILE – 24"X48". SEE FINISH SCHEDULE
- ACT AV — ACOUSTICAL CEILING TILE: VINYL FACED USG 24"X24" CLEAN ROOM CLIMA-PLUS. UNPERFORATED. SMOOTH TEXTURE
  COLOR: WHITE
  GRID:USG 15/16" DX/DXL COLOR: WHITE
- C — ALUMINUM CANOPY WITH INTEGRAL GUTTER AND SCUPPER – SEE 4/A5.0 FOR NOTES – SEE ROOF PLAN FOR DIMENSIONS – SEE ELEVATION FOR COLOR
- CS — GC BUILT SOFFIT OVER FRONT COUNTER
  PROVIDE FINISHES PER DECOR DRAWINGS
- CT A — WALL FINISH: PER DECOR PORTFOLIO
  SEE A3.1 AND A6.1 FOR FINISH INFORMATION.
- CT B — WALL TILE: CROSSVILLE – COLOR BY NUMBERS
  COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND
  GROUT: MAPEI SILVER 27 JOINT TO BE 1/16" MAX.
  USE THIS TILE WHEN HIGH LRV IS REQUIRED
  COORDINATE WITH McDONALD'S AREA CONSTRUCTION MANAGER
- DC — SUSPENDED DECORATIVE CEILING TREATMENT – SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION
- DS — DROPPED SOFFIT
  DC-WH — BOTTOM TO ALIGN WITH GYP BD AT EXTERIOR WINDOW HEAD
  MAY BE REPLACED BY ELEMENT BY DECOR SUPPLIER – CONFIRM WITH AREA CONSTRUCTION MANAGER
- GB — GYPSUM BOARD CEILING FINISH. SEE DECOR.
- MT — CEILING MOUNTED MONITOR: A) VERIFY MONITOR LOCATIONS WITH McDONALD'S PROJECT MANAGER PRIOR TO INSTALLATION. B) SEE DETAIL 6/A1.2 FOR INSTALLATION METHOD
- RL — ROOF LADDER OPENING
- SC — INTERGRAL GUTTER
  SCUPPER

GENERAL NOTES

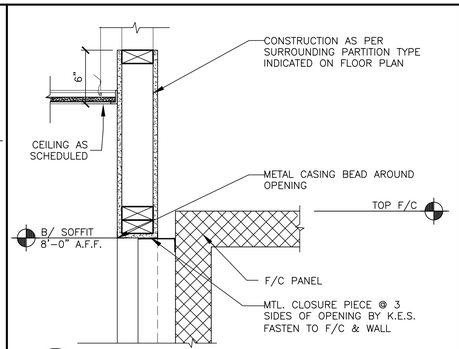
1. SEE SHT A6.1 FOR CEILING FINISHES.
2. GENERAL CONTRACTOR SHALL COORDINATE HVAC DIFFUSER LOCATION WITH DECOR & MECHANICAL PLANS AND REPORT ANY DISCREPANCIES TO ARCHITECT.
3. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR DIFFUSER AND LIGHTING INFORMATION.
4. PROVIDE USG V15 CEILING TILE RETENTION CLIPS IN ALL VESTIBULE AREAS



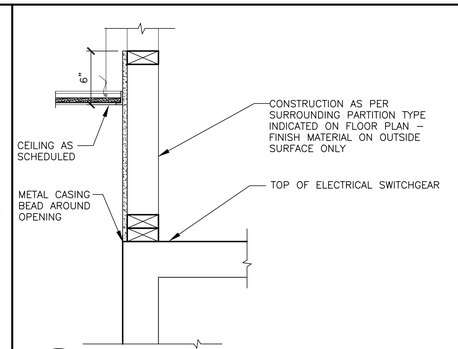
2 A1.2 **VALANCE SECTION**
1"=1'-0"



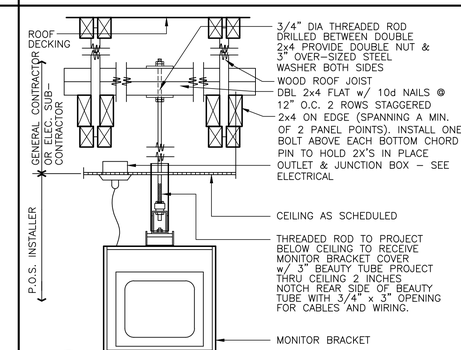
3 A1.2 **CEILING TRANSITION w/ SOFFIT**
1"=1'-0"



4 A1.2 **CEILING DETAIL AT COOLER**
1 1/2"=1'-0"

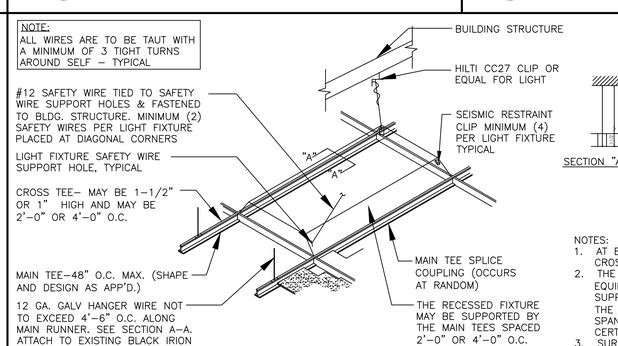


5 A1.2 **CEILING DETAIL AT SWITCHGEAR**
1 1/2"=1'-0"

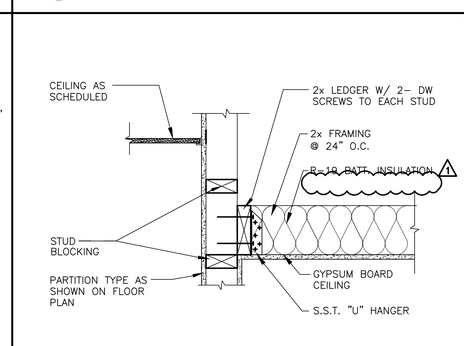


6 A1.2 **MONITOR INSTALLATION DETAIL**
N.T.S.

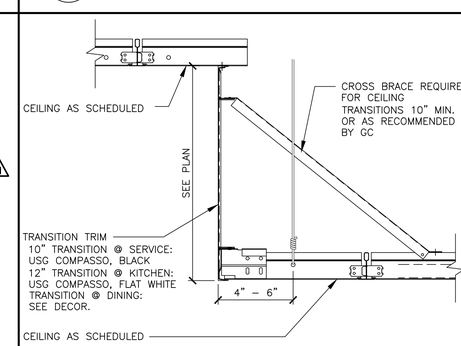
7 A1.2 **NOT USED**
N.T.S.



8 A1.2 **CEILING GRID & LIGHT SUPPORT DETAIL**
N.T.S.



10 A1.2 **GYP BD CEILING DETAIL**
1 1/2"=1'-0" A0610WB1



11 A1.2 **ACOUSTIC CEILING TRANSITION**
N.T.S. COORDINATE w/ DECOR

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
Email: jeremy@jaw-arch.com

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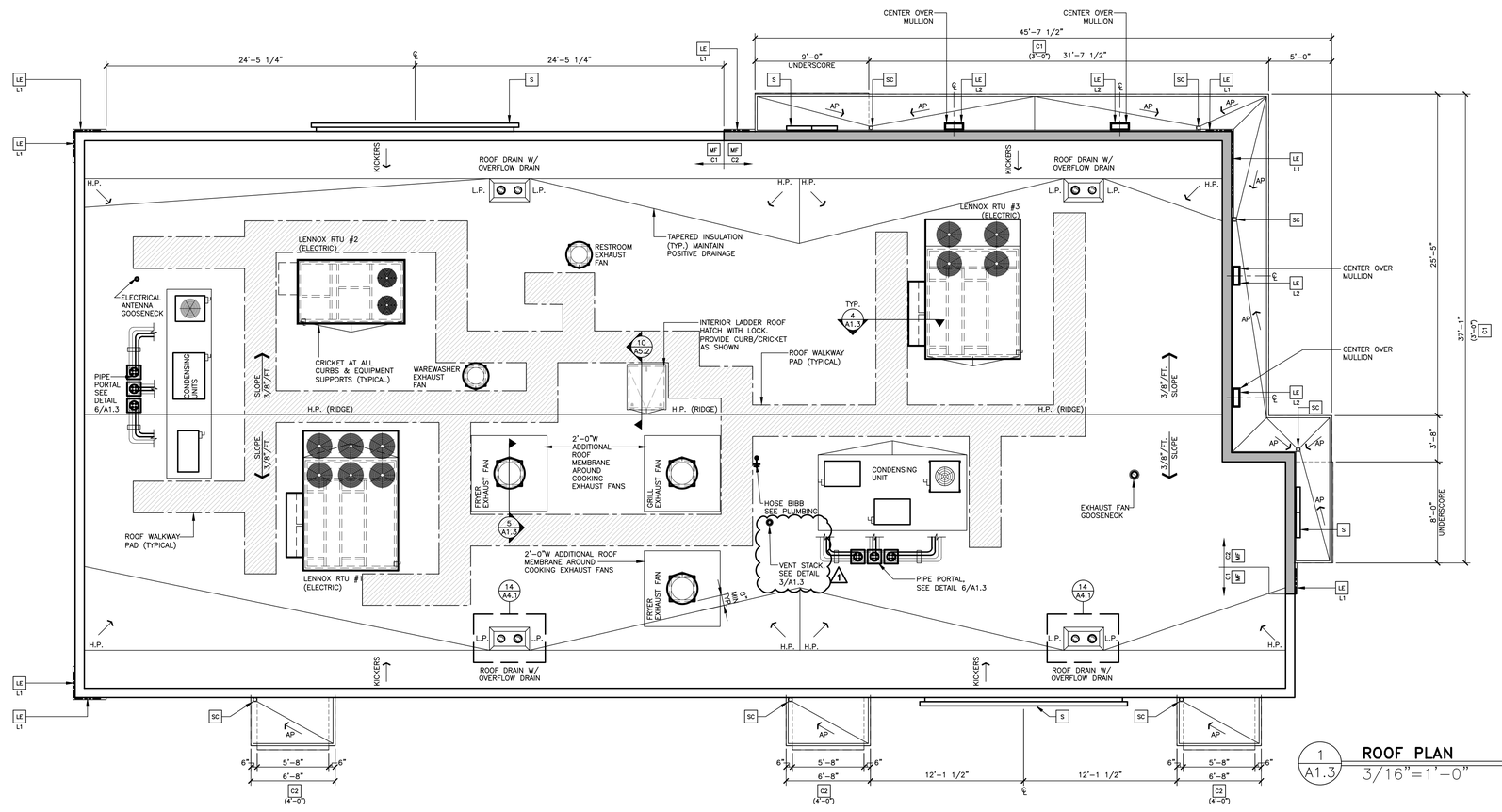
SHEET NO. JAWA 26-0041
A1.2
REFLECTED CLG. PLAN



1 A1.3 **ROOF PLAN**
3/16"=1'-0"

LEGEND

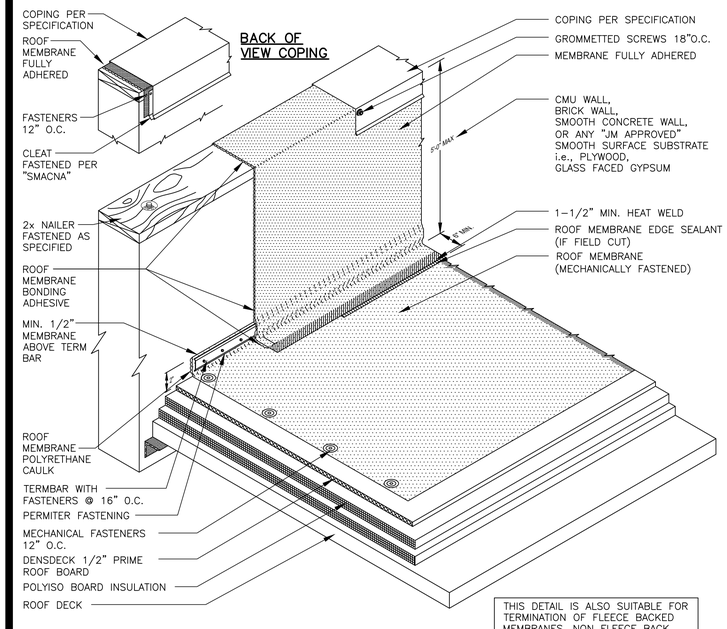
L.P.	LOW POINT
H.P.	HIGH POINT
←	DIRECTION OF DRAINAGE
AP	TRELLIS SYSTEM WITH ALUMINUM INFILL PANELS. SLOPE TO EDGE @1/4"PER FT.

KEY NOTES

- C1 ALUMINUM CANOPY SYSTEM (COLOR: SEE ELEVATIONS)
- C2 ALUMINUM CANOPY SYSTEM (COLOR: SEE ELEVATIONS)
- LE ACCENT LIGHTING – SEE ELEVATIONS & ELECTRICAL
  - L1 LED LIGHT: L1 = SLIM LED (DOWN ONLY) L2 = UP ONLY FLOOD FIXTURE
- MF METAL FASCIA
  - C1 COLOR: C1 = SEE ELEVATIONS FOR COLOR C2 = SEE ELEVATIONS FOR COLOR
- S McDONALD'S SIGNAGE BY OTHERS UNDER SEPARATE PERMIT (SEE ELEVATIONS)
- SC INTERGRAL GUTTER SCUPPER

ROOFING NOTES

1. SINGLE–PLY ROOFING SYSTEM WITH BASE FLASHING SHEET EXTENDING UP PARAPET AND TERMINATED UNDER COPING HOT WELDED TO SEALING STRIP SECURED TO WOOD BLOCKING
2. INSTALLATION OF ROOFING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND PER DETAIL 2 OF THIS SHEET.
3. PROVIDE PREFABRICATED METAL CURBS. COORDINATE SIZE, LOCATION AND INSTALLATION REQUIREMENTS W/ M, E, P & S SHEETS. PROVIDE SHIMS TO LEVEL CURB AREAS WHERE ROOF DECK IS PITCHED.
4. FOR EXACT LOCATION OF EXHAUST FANS, HVAC UNITS, AND ROOF HATCH. REFER TO STRUCTURAL DRAWINGS.
5. CRICKETS MUST BE INSTALLED AT ALL ROOF CURBS & EQUIPMENT PLATFORMS BY GENERALCONTRACTOR.



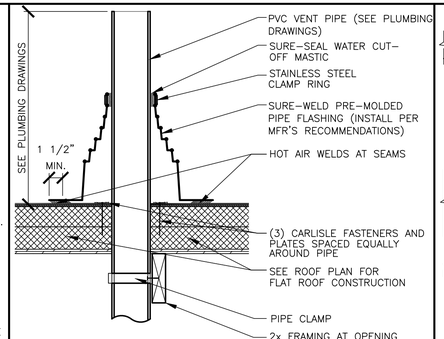
THIS DETAIL IS ALSO SUITABLE FOR TERMINATION OF FLEECE BACKED MEMBRANES. NON FLEECE BACK MEMBRANE IS REQUIRED FOR WALL FLASHINGS.

2 A1.3 **ROOFING SYSTEM**
N.T.S.

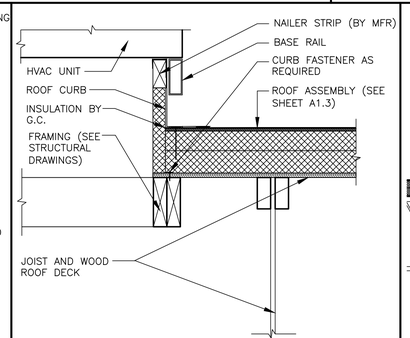
ROOFING SYSTEM

1. MANUFACTURERS AND PRODUCTS:
   - A. DURO–LAST PVC ROOFING SYSTEM
   - B. JM–PVC. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP–TO–DATE INFORMATION.

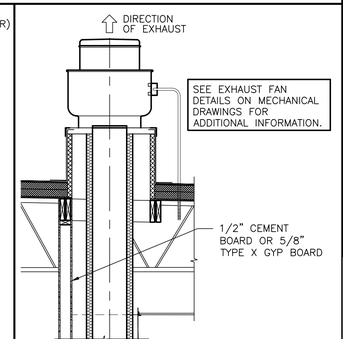
   NO SUBSTITUTIONS ALLOWED
2. SPECIFIED ROOFING SYSTEMS (AS SHOWN):
   HEAT–WELDABLE SINGLE–PLY 50 MIL PVC ROOFING SYSTEM, INSTALLED OVER RIGID INSULATION ON WOOD ROOF DECK HAVING A SLOPE OF 3/8"/FT. MATERIALS SHALL BE AS FOLLOWS:
   - A. SINGLE–PLY ROOFING SYSTEM AS MANUFACTURED BY MANUFACTURER LISTED ABOVE TO COMPLY WITH ASTM E 108 OR UL 790, ASTM D–6878, AND FMG I–90 FOR WIND UPLIFT.
   - B. FASTENERS: METAL FASTENERS AND PLATES AS PER MANUFACTURER.
   - C. ACCESSORIES: PRE–FABRICATED CURBS, FLASHING, CORNERS, TERMINATION BARS, PIPE FLASHING, VENT FLASHING ETC. AS PER MANUFACTURER.
   - D. PLEASE SEE SINGLE–PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
   - E. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL. CONTACT MANUFACTURER FOR METAL OPTIONS TO BE INCLUDED WITHIN THE MANUFACTURER'S GUARANTEE.
   - F. ROOF MEMBRANE EDGE SEALANT IS REQUIRED ON ALL CUT OR NON–ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE
3. WALKWAYS:
   - A. 30" WIDE WALKWAY ROLL, HOT AIR WELDED TO MEMBRANE.
   - B. PROVIDE WALKWAY FROM ROOF LADDER EXIT TO ALL ROOF TOP EQUIPMENT AS PER ROOF PLAN ABOVE.
   - C. INSTALL WALKWAY ACCORDING TO WALKWAY PAD MANUFACTURER'S WRITTEN INSTRUCTION.
4. RIGID INSULATION:
   PROVIDE REQUIRED LAYERS OF POLYISOCYANURATE INSULATION W/ 1/2" "DENSDECK" COVER BOARD TO MEET A MINIMUM CONTINUOUS R–30 VALUE – THICKNESS AS REQUIRED. PROVIDE POSITIVE SLOPE TO ALL ROOF DRAINS. SEE ROOF PLAN. PROVIDE TOP LAYER PROTECTION MATERIAL AS PER MANUFACTURERS RECOMMENDATIONS. BOTTOM LAYER OF INSULATION TO HAVE INTEGRAL THERMAL BARRIER OR APPROVED ROOFING MANUFACTURER'S THERMAL UNDERLAYMENT SHEET. ASSEMBLY SHALL COMPLY WITH UL 1256 OR FMG 4450 AND ASTM C 1289, TYPE I OR II.
5. TAPERED INSULATION:
   PROVIDE TAPERED INSULATION AS REQUIRED FOR POSITIVE DRAINAGE TO ROOF DRAINS AS INDICATED PER ROOF PLAN ABOVE. ¼" PER FOOT MIN. REQUIRED.
6. EXHAUST FANS:
   PROVIDE ADDITIONAL LAYER OF ROOF MEMBRANE AROUND EXHAUST FANS AS INDICATED PER ROOF PLAN ABOVE.



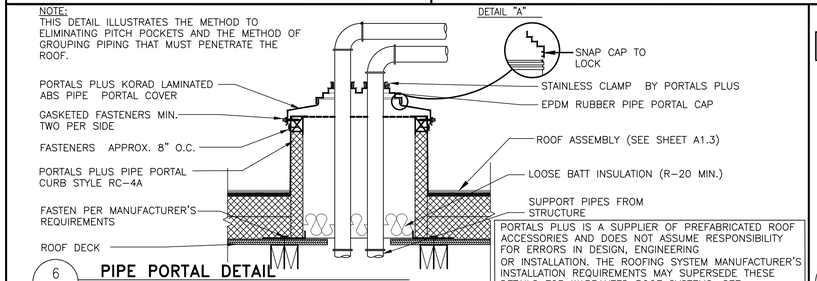
3 A1.3 **TYPICAL VENT PENETRATION**
1 1/2"=1'-0"



4 A1.3 **HVAC UNIT ROOF CURB DETAIL**
1 1/2"=1'-0"

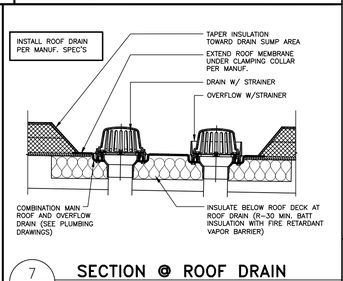


5 A1.3 **DETAIL @ EXHAUST FAN**
1/2"=1'-0"



PORTALS PLUS IS A SUPPLIER OF PREFABRICATED ROOF ACCESSORIES AND DOES NOT ASSUME RESPONSIBILITY FOR ERRORS IN DESIGN, ENGINEERING OR INSTALLATION. THE ROOFING SYSTEM MANUFACTURER'S INSTALLATION REQUIREMENTS MAY SUPERSEDE THESE DETAILS FOR WARRANTED ROOF SYSTEMS. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

6 A1.3 **PIPE PORTAL DETAIL**
1 1/2"=1'-0"



7 A1.3 **SECTION @ ROOF DRAIN**
1/2"=1'-0"

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOYPE UPDATES	

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JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
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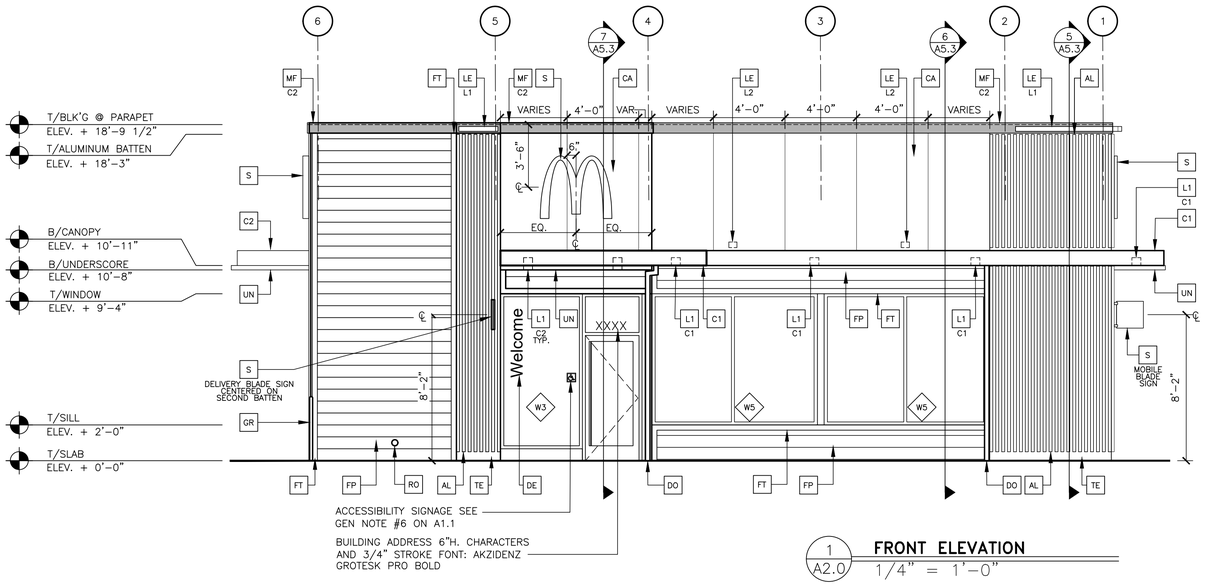
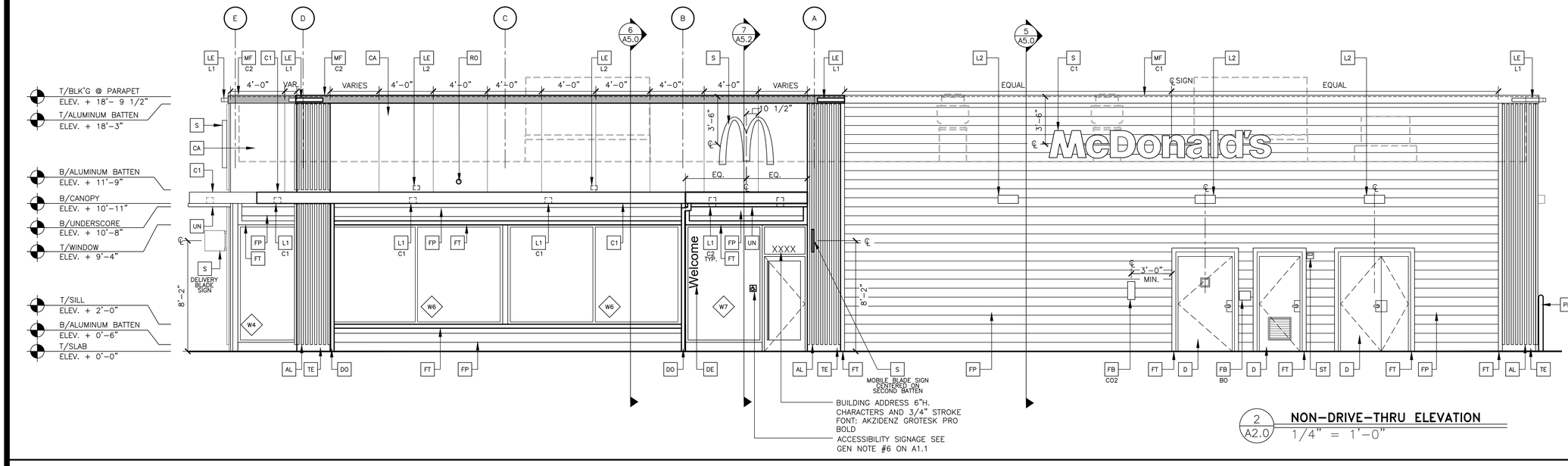
SITE ID: 024–1329

SHEET NO. JAWA 26–0041
A1.3
ROOF PLAN



1 A2.0 **FRONT ELEVATION**
1/4" = 1'-0"



2 A2.0 **NON-DRIVE-THRU ELEVATION**
1/4" = 1'-0"

KEY NOTES:

- AL — METAL ERA ALUMINUM BATTEN SYSTEM
  SIZE: 2"X2" PROFILE
  COLOR: WOOD GRAIN, BACKRAIL UNFINISHED, ENDCAP PAINTED TO MATCH SUBSTRATE: 1/2" EXTERIOR HIGH DENSITY OVERLAY (HDO) PLYWOOD, BB, GROUP 1, HDO BOTH FACES, APA TRADEMARKED.
  COURSE GRIT SAND SURFACES PRIOR TO PRIMING. PRIME AND PAINT BOTH SIDES AND ALL EDGES PRIOR TO INSTALLATION.
  SUBSTRATE COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- CA — CITADEL ACM WALL PANELS
  COLOR: UMBRA GRAY
- C1 — ALUMINUM CANOPY SYSTEM
  COLOR: WHITE
- C2 — ALUMINUM CANOPY SYSTEM
  COLOR: RAL 7022
- D — HOLLOW METAL DOOR
  PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS
- DE — DECAL BY GRAPHICS SUPPLIER
  SURFACE APPLIED, FIELD INSTALLED, PRE CUT, PRE SPACED.
  SUPPLIERS:
  VOMELA (865) 330-7337, ann.bowen@vomela.com
  GFX INTERNATIONAL (847) 543-4600, mcdonaldsdecor@gfxi.com
- DO — DOWNSPOUT
  3" DOWNSPOUT BY CANOPY SYSTEM MANUFACTURER
  COLOR: RAL 7022
  COORDINATE WITH CIVIL TO TIE INTO STORM DRAINAGE
- FB — C02 — C02 = BULK C02 FILL BOX (EQPM SCHEDULE ITEM 49.00)
  BO = BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18)
- FP — FIBER CEMENT LAP SIDING: SMOOTH HARDI-BOARD PLANK BY JAMES HARDIE, 8-1/4" WIDTH, 7" EXPOSURE, HZ5
  PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS
- FT — FIBER CEMENT TRIM: HARDIE TRIM BOARDS 4/4 SMOOTH, 3 1/2" WIDTH, 3/4" THICK, HZ5
  PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS
- GR — GUARD RAIL –SEE SITE PLAN FOR EXACT LOCATION AND LENGTH
  USE STAINLESS STEEL OR GALVANIZED STEEL
- L1 — RECESSED DOWN LIGHT FIXTURE – SEE ELECTRICAL
  C1— COLOR:
  C1= WHITE
  C2= GOLD
- L2 — RADIAL SCONCE LIGHT FIXTURE – SEE ELECTRICAL
  COLOR: PLATINUM SILVER
- LE — ACCENT LIGHTING – SEE ELECTRICAL
  L1— LED LIGHT:
  L1 = SLIM LED (DOWN ONLY)
  L2 = UP ONLY FLOOD FIXTURE
- MF — PRE-FAB ANCHOR-TITE METAL FASCIA
  C1— COLOR:
  C1= WEATHERED ZINC
  C2= RAL 7022
- PB — PIPE BOLLARD – USA 310-SD BASTION
  PAINT RAL 7022
- RO — ROOF DRAIN OVERFLOW PIPE PAINT TO MATCH SURROUNDING MATERIAL
- S — McDONALD'S SIGNAGE BY OTHERS – UNDER SEPARATE PERMIT.
  C1— COLOR:
  C1= WEATHERED ZINC RACEWAY
  C2= RAL 7022 RACEWAY
- ST — CO2 STROBE/ALARM. SEE MECHANICAL DRAWINGS FOR SPECIFICATION.
- TE — TRU EXTERIOR 1"X6" TRIM, PAINTED ON SITE
  COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- UN — METAL UNDERSCORE
  COLOR: GOLD
- W# — EXTERIOR WINDOW ASSEMBLY – TEMPERED GLASS
  COLOR: DARK BRONZE
  SEE SHEET A6.0
- W2 XX — DRIVE-THRU WINDOW BY READY ACCESS
  MODEL: 600 SERIES, 36" SERVICE HEIGHT WITH TRANSOM, MANUAL OPEN; ELECTRONIC RELEASE
  COLOR: DEEP BRONZE
  SLIDE DIRECTION: RL = RIGHT TO LEFT
  LR = LEFT TO RIGHT

REV	DATE	DESCRIPTION	BY

PREPARED BY:
JAW Architects, Inc.
Jeramy Williams, Architect
Phone: 417-753-3387
Email: jeramy@jaw-arch.com

PREPARED FOR:
McDonald's USA, LLC

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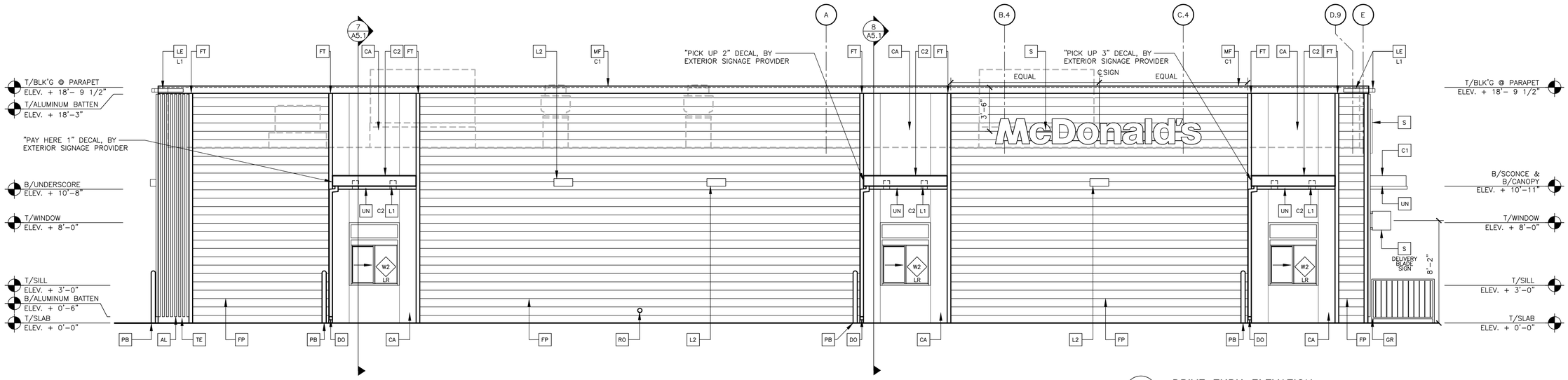
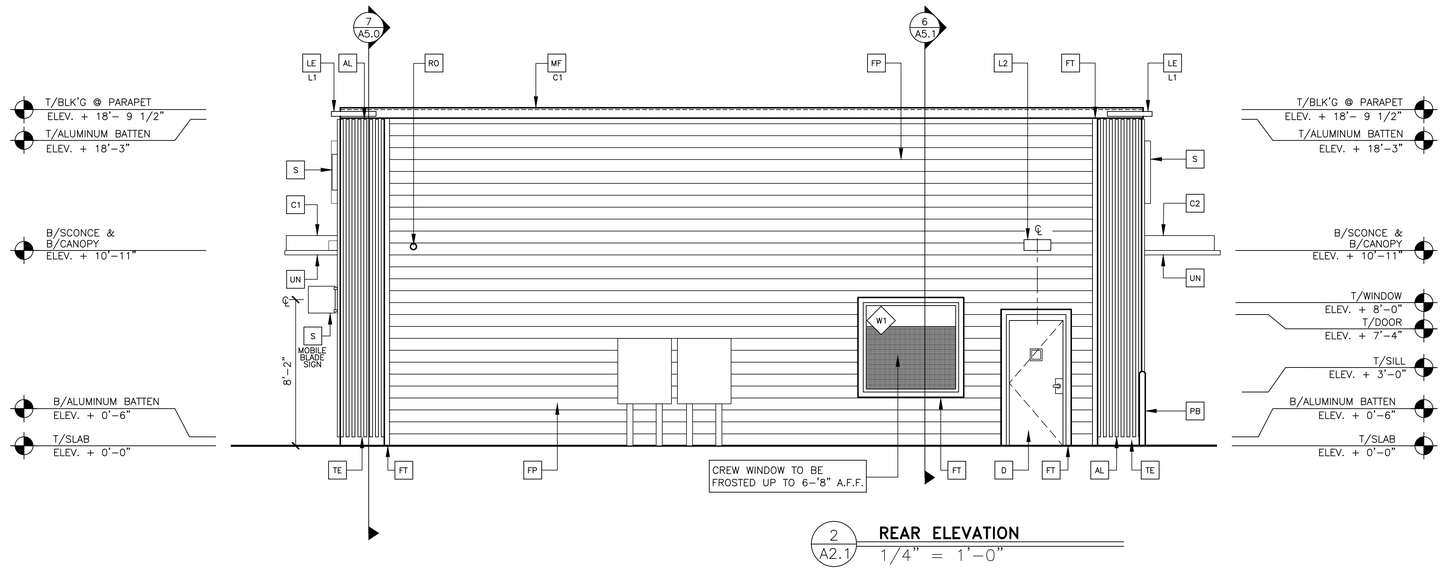
	ELEVATIONS



1 A2.1 **DRIVE THRU ELEVATION**
1/4" = 1'-0"



2 A2.1 **REAR ELEVATION**
1/4" = 1'-0"

KEY NOTES:

- AL — METAL ERA ALUMINUM BATTEN SYSTEM
  SIZE: 2"X2" PROFILE
  COLOR: WOOD GRAIN, BACKRAIL UNFINISHED, ENDCAP PAINTED TO MATCH
  SUBSTRATE: 1/2" EXTERIOR HIGH DENSITY OVERLAY (HDO) PLYWOOD, BB, GROUP 1, HDO BOTH FACES, APA TRADEMARKED.
  COURSE GRIT SAND SURFACES PRIOR TO PRIMING. PRIME AND PAINT BOTH SIDES AND ALL EDGES PRIOR TO INSTALLATION.
  SUBSTRATE COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- CA — CITADEL ACM WALL PANELS
  COLOR: UMBRA GRAY
- C1 — ALUMINUM CANOPY SYSTEM
  COLOR: WHITE
- C2 — ALUMINUM CANOPY SYSTEM
  COLOR: RAL 7022
- D — HOLLOW METAL DOOR
  PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS
- DE — DECAL BY GRAPHICS SUPPLIER
  SURFACE APPLIED, FIELD INSTALLED, PRE CUT, PRE SPACED.
  SUPPLIERS:
  VOMELA (865) 330-7337, ann.bowen@vomela.com
  GFX INTERNATIONAL (847) 543-4600, mcdonaldsdecor@gfxi.com
- DO — DOWNSPOUT
  3" DOWNSPOUT BY CANOPY SYSTEM MANUFACTURER
  COLOR: RAL 7022
  COORDINATE WITH CIVIL TO TIE INTO STORM DRAINAGE
- FB — C02 — C02 = BULK C02 FILL BOX (EQPM SCHEDULE ITEM 49.00)
  BO = BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18)
- FP — FIBER CEMENT LAP SIDING: SMOOTH HARDI-BOARD PLANK BY JAMES HARDIE, 8-1/4" WIDTH, 7" EXPOSURE, HZ5
  PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS
- FT — FIBER CEMENT TRIM: HARDIE TRIM BOARDS 4/4 SMOOTH, 3 1/2" WIDTH, 3/4" THICK, HZ5
  PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS
- GR — GUARD RAIL –SEE SITE PLAN FOR EXACT LOCATION AND LENGTH
  USE STAINLESS STEEL OR GALVANIZED STEEL
- L1 — RECESSED DOWN LIGHT FIXTURE – SEE ELECTRICAL
  C1— COLOR:
  C1= WHITE
  C2= GOLD
- L2 — RADIAL SCONCE LIGHT FIXTURE – SEE ELECTRICAL
  COLOR: PLATINUM SILVER
- LE — ACCENT LIGHTING – SEE ELECTRICAL
  L1— LED LIGHT:
  L1 = SLIM LED (DOWN ONLY)
  L2 = UP ONLY FLOOD FIXTURE
- MF — PRE-FAB ANCHOR-TITE METAL FASCIA
  C1— COLOR:
  C1= WEATHERED ZINC
  C2= RAL 7022
- PB — PIPE BOLLARD – USA 310-SD BASTION
  PAINT RAL 7022
- RO — ROOF DRAIN OVERFLOW PIPE PAINT TO MATCH SURROUNDING MATERIAL
- S — McDONALD'S SIGNAGE BY OTHERS – UNDER SEPARATE PERMIT.
  C1— COLOR:
  C1= WEATHERED ZINC RACEWAY
  C2= RAL 7022 RACEWAY
- ST — CO2 STROBE/ALARM. SEE MECHANICAL DRAWINGS FOR SPECIFICATION.
- TE — TRU EXTERIOR 1"X6" TRIM, PAINTED ON SITE
  COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- UN — METAL UNDERSCORE
  COLOR: GOLD
- W# — EXTERIOR WINDOW ASSEMBLY – TEMPERED GLASS
  COLOR: DARK BRONZE
  SEE SHEET A6.0
- W2 XX — DRIVE-THRU WINDOW BY READY ACCESS
  MODEL: 600 SERIES, 36" SERVICE HEIGHT WITH TRANSOM, MANUAL OPEN; ELECTRONIC RELEASE
  COLOR: DEEP BRONZE
  SLIDE DIRECTION: RL = RIGHT TO LEFT
  LR = LEFT TO RIGHT

REV	DATE	DESCRIPTION	BY

PREPARED FOR: McDonald's USA, LLC

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PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
Email: jeremy@jaw-arch.com

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DRAWN BY	REVIEWED BY	DATE ISSUED
JAW	JAW	04/15/2026
STD ISSUE DATE 2026		

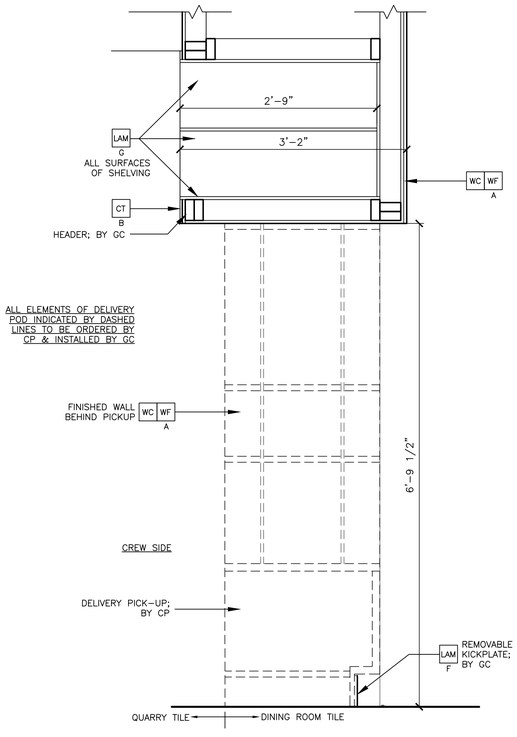
TITLE: 2026 STANDARD BUILDING – BB20
4590-WOOD/WOOD

DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SITE ID: 024-1329

SHEET NO. A2.1
JAWA 26-0041
ELEVATIONS



8 A3.1 **SECTION @ DELIVERY POD**
1" = 1'–0"

OPTIONAL LATE NIGHT WINDOW, FOR HIGH DELIVERY RESTAURANTS

W1 STOREFRONT WINDOW ASSEMBLY – TEMPERED GLASS
COLOR: DARK BRONZE

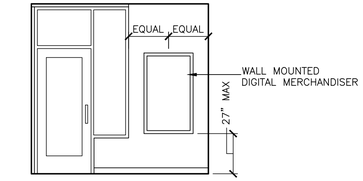
W2 LATE NIGHT WINDOW
COLOR: DARK BRONZE

PICK–UP WINDOW SPECIFICATION
MODEL: READY ACCESS 275 SERIES
FRAME SIZE – 35.75"W x 47.5"H x 4"D
SERVICE OPENING – 13.5"W x 39"H
MANUAL OPEN/SELF CLOSE

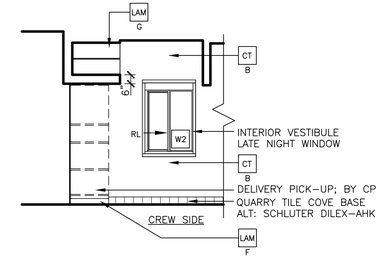
VESTIBULE SIDE ELEVATION

7 A3.1 **LATE NIGHT WINDOW – VESTIBULE SIDE**
1/4" = 1'–0"

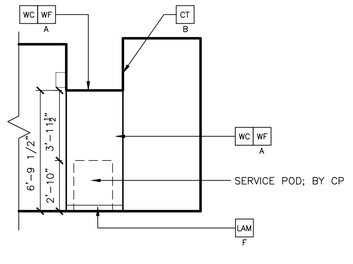
6 A3.1 **SERVICE AREA ELEVATION – CREW SIDE**
1/4" = 1'–0"



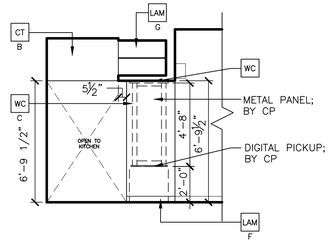
9 A3.1 **NONDRIVE–THRU VESTIBULE ELEVATION**
1/4" = 1'–0"



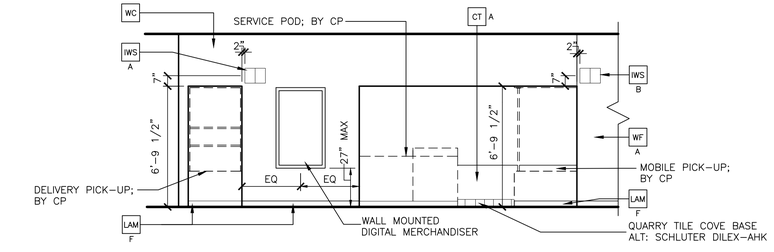
5 A3.1 **LATE NIGHT WINDOW – CREW SIDE**
1/4" = 1'–0"



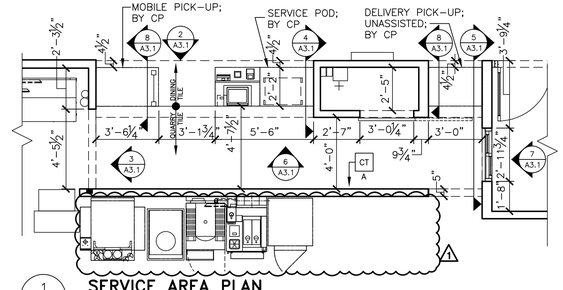
4 A3.1 **SERVICE AREA ELEVATION**
1/4" = 1'–0"



3 A3.1 **SERVICE AREA ELEVATION**
1/4" = 1'–0"



2 A3.1 **SERVICE AREA ELEVATION – CUSTOMER SIDE**
1/4" = 1'–0"



1 A3.1 **SERVICE AREA PLAN**
1/4" = 1'–0"

KEY NOTES

CG CORNER GUARD: 3/4" ANGLE BY DECOR
COLOR: BLACK

COR CORIAN:
X—
A = 1/2" CORIAN CAMEO WHITE
B = 1/2" CORIAN DEEP TITANIUM

CT WALL FINISH: PER DECOR PORTFOLIO
A SEE A3.1 AND A6.1 FOR FINISH INFORMATION

CT WALL TILE: CROSSVILLE – COLOR BY NUMBERS
B COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND
GROUT: MAPEI SILVER 27 – JOINT TO BE 1/16" MAX.

IWS INTERIOR WAYFINDING SIGNAGE
X—
A = McDELIVERY INTERIOR TRIANGULAR SIGN
B = MOBILE ORDER INTERIOR TRIANGULAR SIGN
C = ADA ASSISTANCE SIGNAGE

LAM LAMINATE:
X—
COLOR:
F = BASE BOARD, FORMICA COMPACT LAMINATE MATTE BLACK BY GC
G = OVERHEAD SHELVING, WILSONART DOVE GREY D92–60 BY GC

MP METAL INFILL PANEL. MATCH DARK BRONZE WINDOW ASSEMBLY

WC WALL COVERING
PER DECOR PORTFOLIO:
LUNA = MOMENTUM – NA–5C–MC439 LUNA WOODGRAIN
ROUTE 66 = MOMENTUM – NA–5C–MC500 ROUTE 66 WOODGRAIN
MOMENTUM – NA–5C–MC502 BLUE BURGER MURAL
VISTA = MOMENTUM – NA–5C–MC502 VISTA WOODGRAIN
COORDINATE WITH DECOR DRAWINGS

WF WALL FINISH.
A = TILE PER DECOR PORTFOLIO.
ROUTE 66: ICG ITALIA – WHITE GLOSSY CHEVRON
GROUT: MAPEI CHARCOAL 47 – JOINT TO BE 1/16" MAX.
LUNA: CROSSVILLE – MOONLIGHT GREY, 12"X24", STACKED BOND.
GROUT: MAPEI GRAY 09 – JOINT TO BE 1/16" MAX.
VISTA: CROSSVILLE – TEA FOR TWO MATTE, 4"X12", VERTICAL RUNNING BOND.
GROUT: MAPEI SILVER 27 – JOINT TO BE 1/16" MAX.
B = WALL PANEL (RAY ONLY)
RAY: LAMITECH – D–3127 TX INDUSTRIAL CONCRETE

GENERAL NOTES

- ALL WALL LAMINATE PANELING MANUFACTURED BY DECOR PURCHASE AND INSTALL BY GC, UNO.
- ALL ELEMENTS 'BY CP' TO BE ORDERED BY CENTRAL PURCHASING AND INSTALLED BY GC, UNO.
- KIOSK SIGNAGE BY GC; ORDER FROM AMANDA GUSTAFSON W/ ALTRUA (agustafson@altrua.com) 'CREDIT ONLY' & 'CASH/CREDIT' KIOSK SIGNAGE

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED FOR: McDonald's USA, LLC

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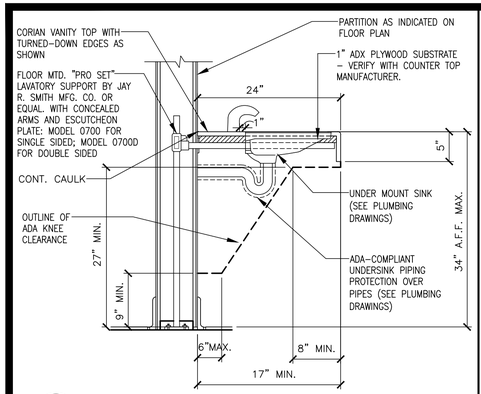
PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
Email: jeremy@jaw-arch.com

DRAWN BY: JAW
STD ISSUE DATE: 2026
REVIEWED BY: JAW
DATE ISSUED: 04/15/2026

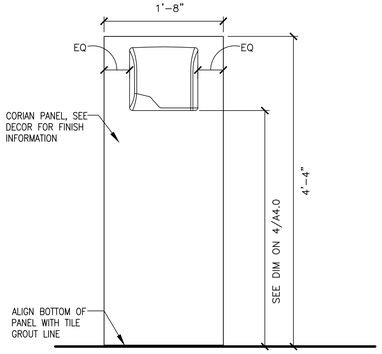
TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E. NEW MELVILLE RD. & S. HUNT RD. WILLARD, MO 65781
SITE ID: 024–1329

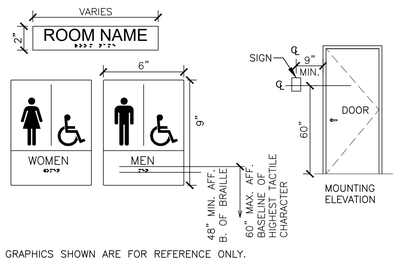
SHEET NO. A3.1
JAWA 26–0041
SERVICE AREA DETAILS



7 A4.0 **SECTION @ LAVATORY**
1"=1'-0"



6 A4.0 **ELEVATION @ HAND DRYER**
1"=1'-0"



GRAPHICS SHOWN ARE FOR REFERENCE ONLY.

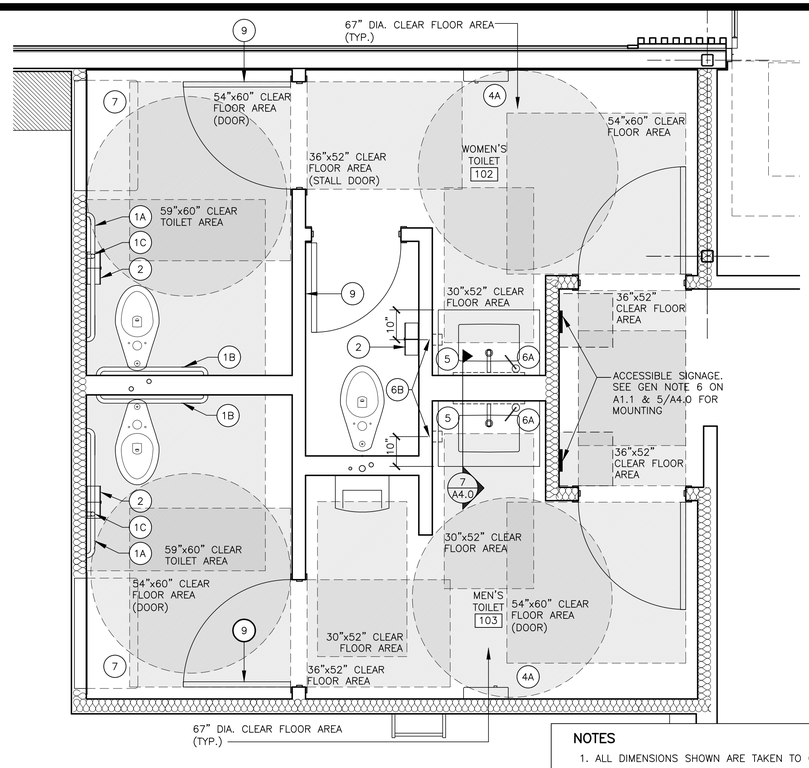
GC TO PROVIDE ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY:

FRANKE/S2K
1-800-423-5247
www.frankesupply.com
email: fs-frankesupply.us@franke.com

SIGNAGE NOTES:

1. EACH EXIT DOOR SHALL HAVE A TACTILE SIGN, INCLUDING RAISED LETTERS AND BRAILLE, STATING 'EXIT' AND SHALL COMPLY WITH CHAPTER 7. ALL SIGNAGE SHALL CONFORM WITH ACCESSIBILITY GUIDELINES AND LOCAL GUIDELINES INCLUDING BUT NOT LIMITED TO PROPORTION, COLOR CONTRAST AND RELIEF AND GRADE 2 BRAILLE REQUIREMENTS.
2. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH CHAPTER 7. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

5 A4.0 **ACCESSIBLE SIGNAGE**
N.T.S.

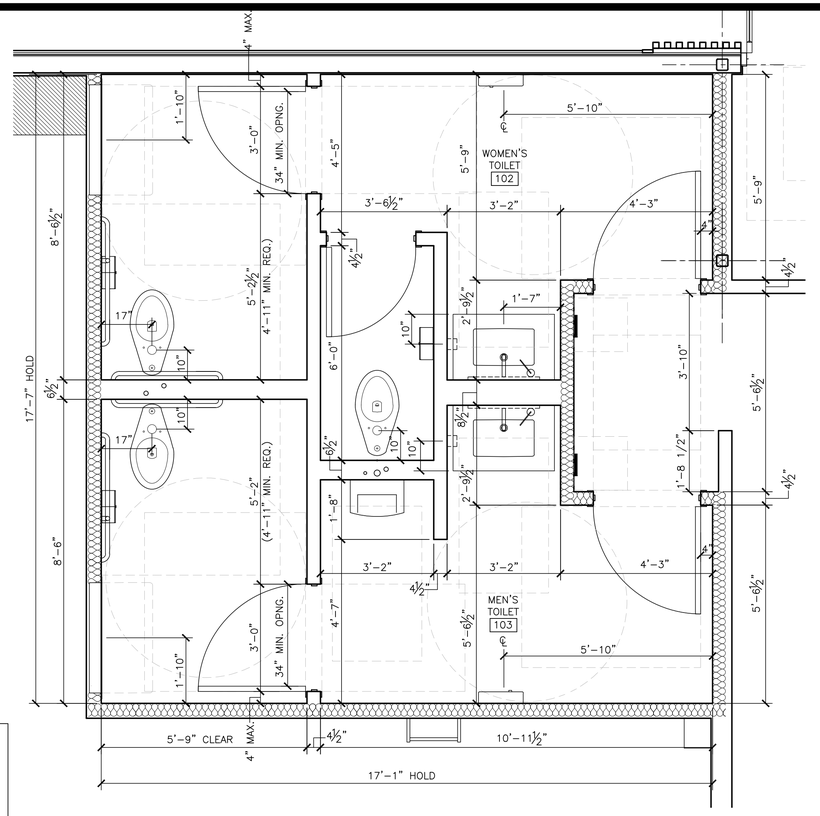


1 A4.0 **ENLARGED RESTROOM PLAN–NOTED**
1/2" = 1'-0"

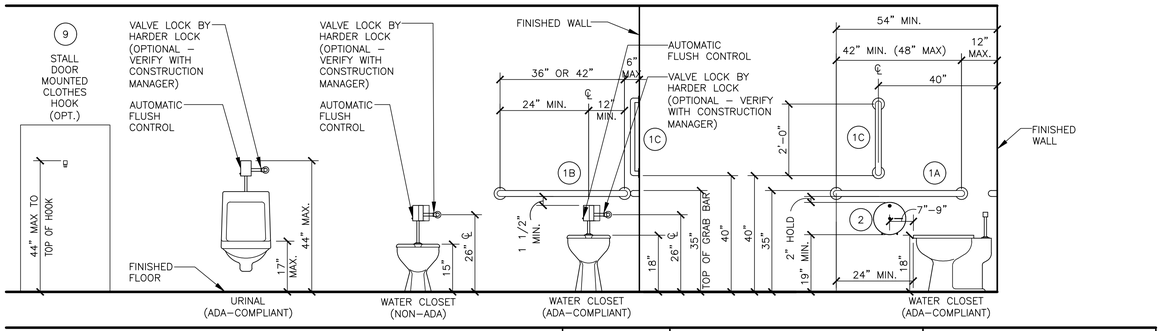
NOTES

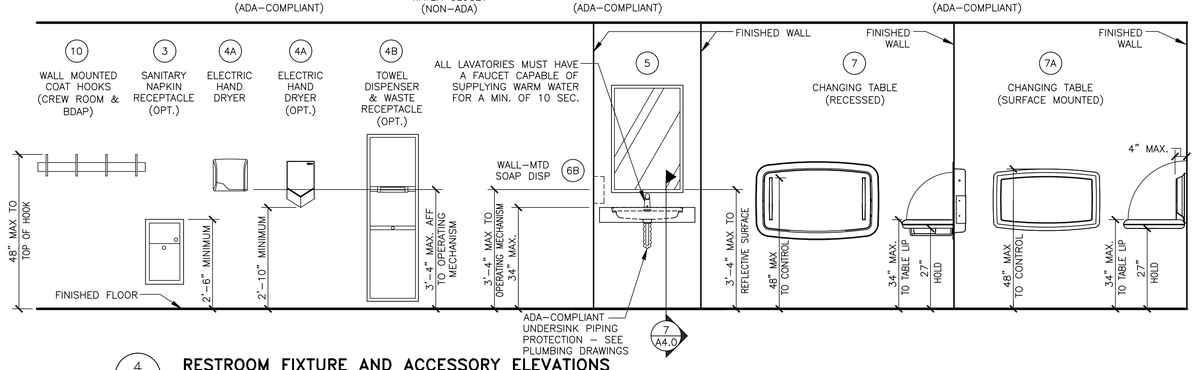
1. ALL DIMENSIONS SHOWN ARE TAKEN TO CEMENT BD.
2. SEE SHEET A1.1 FOR PARTITION TYPES
3. SEE SHEETS A6.0 & A6.1 FOR DOOR AND FINISH SCHEDULES.
4. SEE 4/A4.0 FOR FIXTURE MOUNTING HEIGHTS

(X) = RESTROOM ACCESSORY – SEE 3/A4.0



2 A4.0 **ENLARGED RESTROOM PLAN–DIMENSIONED**
1/2" = 1'-0"





4 A4.0 **RESTROOM FIXTURE AND ACCESSORY ELEVATIONS**
1/2" = 1'-0"

	ITEM (SEE NOTE 2)	MFR MODEL #	SUPPLIER	BACKUP SUPPORT (SEE NOTE 3)
1A	GRAB BAR 42" OR 48"	BOBRICK B–6806X42 OR X48	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	(1)2x6 4'–0" LONG CENTER MOUNTED
1B	GRAB BAR 36" OR 42"	B–6806X36 OR X42		
1C	GRAB BAR 24"	B–6806X24		
2	TOILET TISSUE DISPENSER, JUMBO, SURFACE MOUNTED	BRADLEY 5424	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
3	SANITARY NAPKIN RECEPTACLE, RECESSED (OPTIONAL)	BOBRICK B–353	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	
4A	HAND DRYER, ENERGY EFFICIENT MODEL, ADA, ALUMINUM BRUSHED	WORLD DRYER Q–973A2 VerdeDri	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
4A OPTION	HAND DRYER, ENERGY EFFICIENT MODEL ADA, SPRAYED NICKEL	DYSON AIRBLADE V	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	
4B OPTION	TOWEL DISPENSER & WASTE RECEPTACLE, COMBINATION, RECESSED (OPTIONAL)	BOBRICK B–3974	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	
5	MIRROR, CHANNEL FRAME	BOBRICK B–165 2436	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	
6A	SOAP DISPENSER, COUNTER MOUNTED, 6" SPOUT (OPTIONAL)	BOBRICK B–82216	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	
6B	SOAP DISPENSER, WALL–MOUNTED	BOBRICK B–2112	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	
7	BABY CHANGING TABLE, HORIZONTAL, RECESSED, ADA COMPLIANT, STAINLESS STEEL	KOALA KARE KB310–SSRE	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
7A OPTION "A"	BABY CHANGING TABLE, HORIZONTAL, SURFACE MOUNT, ADA COMPLIANT, STAINLESS STEEL	KOALA KARE KB300–SS	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
8	DIAPER CONTAINER (OPTIONAL)	–	BY OWNER	
9	CLOTHES HOOK	BRADLEY 917	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	
10	COAT RACK (CREW ROOM & BDAP)	BRADLEY 9944	HUGHES SUPPLY (866) 310–3576 MCDCOORD@HAJOCA.COM	

NOTES:
1) SEE 4/A4.0 FOR ACCESSORY MOUNTING HEIGHTS
2) SELECT ONE ITEM FROM ITEM GROUPS 4 & 6, VERIFY WITH AREA CONSTRUCTION MANAGER.
3) CUT BACK–UP SUPPORTS BETWEEN STUDS SO FACE OF SUPPORT IS FLUSH W/WALL STUD

3 A4.0 **RESTROOM ACCESSORY SCHEDULE**

REV	DATE	DESCRIPTION	BY

PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 417-725-3387
Email: jeremy@jaw-arch.com

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PREPARED FOR: McDonald's USA, LLC

DRAWN BY JAW | STD ISSUE DATE 2026 | REVIEWED BY JAW | DATE ISSUED 04/15/2026

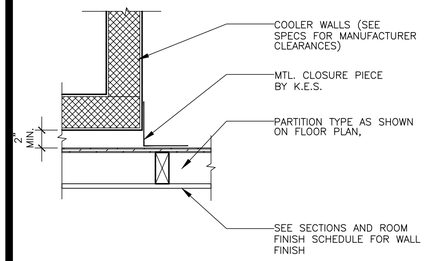
TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024–1329

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

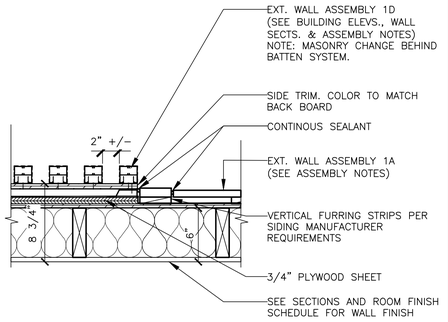
SHEET NO. A4.0
RESTROOM PLAN

JAWA 26–0041



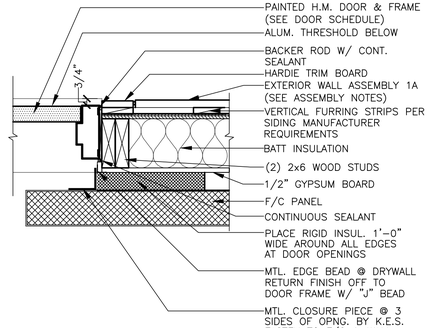
1 A4.1 **CLOSURE DETAIL @ COOLER**

1 1/2"=1'-0"



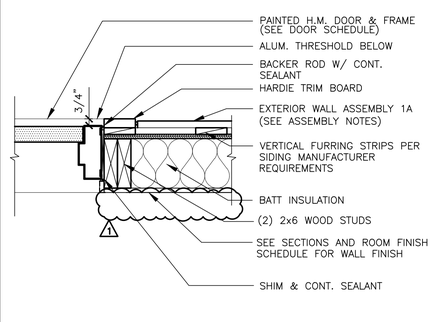
2 A4.1 **BATTEN TO HARDIE PLANK TRANSITION**

1 1/2"=1'-0"



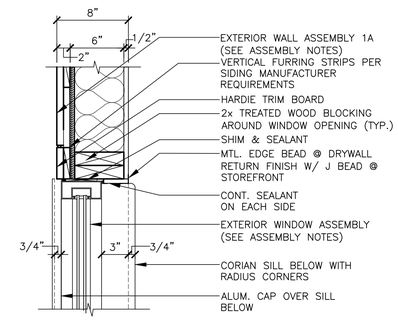
3 A4.1 **DOOR JAMB @ F/C DOOR**

1 1/2"=1'-0"



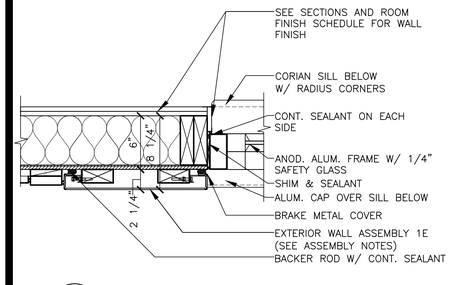
4 A4.1 **EXT.DOOR JAMB DETAIL**

1 1/2"=1'-0"



5 A4.1 **CREW WINDOW JAMB DETAIL**

1 1/2"=1'-0"

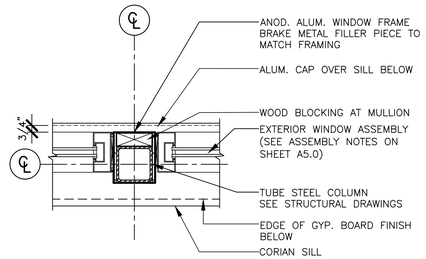


6 A4.1 **ORDER WINDOW JAMB DETAIL**

1 1/2"=1'-0"

7 A4.1 **–**

–

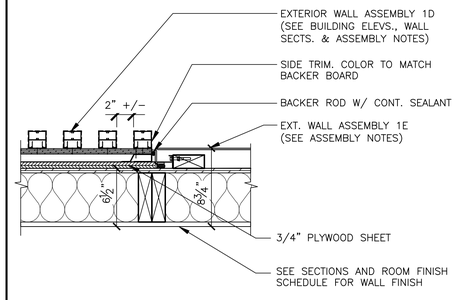


8 A4.1 **DETAIL @ COLUMN**

1 1/2"=1'-0"

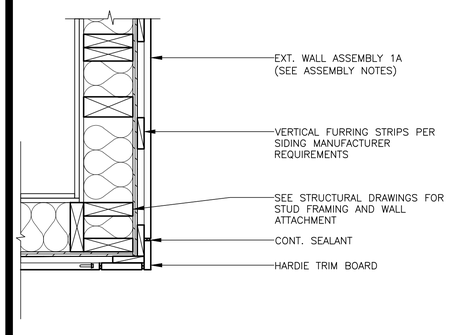
9 A4.1 **–**

–



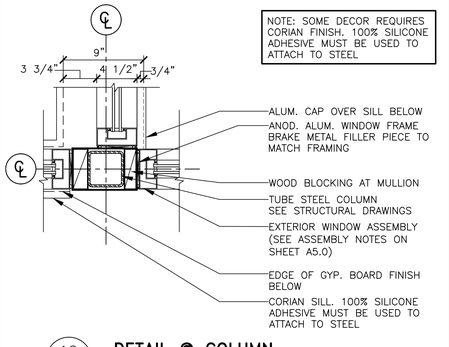
10 A4.1 **BATTEN TO ACM PANEL DETAIL**

1 1/2"=1'-0"



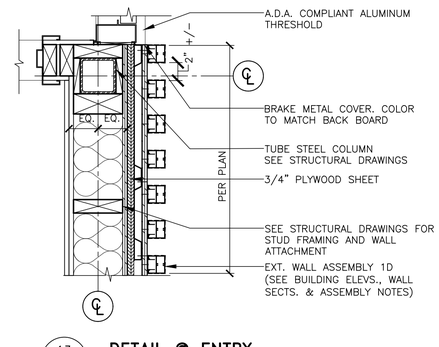
11 A4.1 **CORNER DETAIL @ DT SURROUND**

1 1/2"=1'-0"



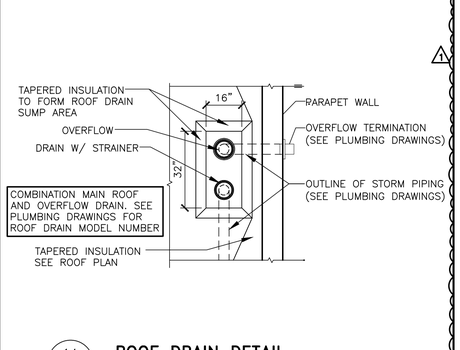
12 A4.1 **DETAIL @ COLUMN**

1 1/2"=1'-0"



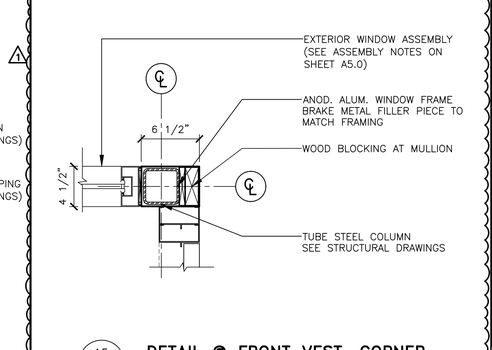
13 A4.1 **DETAIL @ ENTRY**

1 1/2"=1'-0"



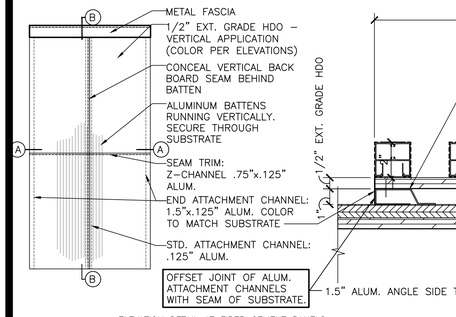
14 A4.1 **ROOF DRAIN DETAIL**

1/4"=1'-0"

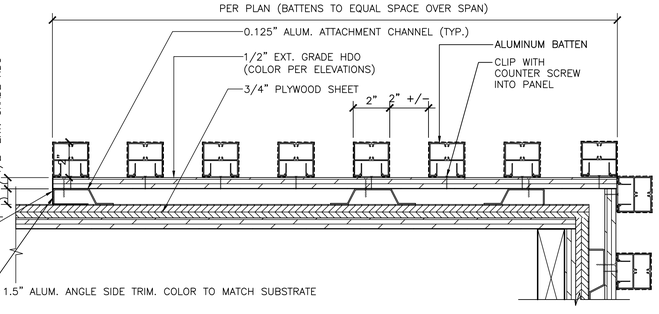


15 A4.1 **DETAIL @ FRONT VEST. CORNER**

1 1/2"=1'-0"



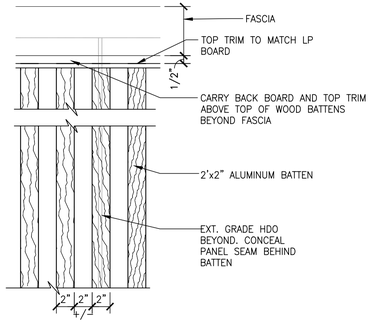
ELEVATION DETAIL AT FIBER CEMENT PANELS



SECTION A: PLAN DETAIL AT BATTENS

SCALE: 3"=1'-0"

ALL SUBSTRATE, HAT CHANNELS AND TRIM BY GC. PRIME AND PAINT ALL SIDES AND EDGES PRIOR TO INSTALLING



ELEVATION DETAIL AT BATTEN JOINTS

SCALE: 1 ½"=1'-0"

16 A4.1 **ALUMINUM BATTEN DETAIL**

1/4"=1'-0"

17 A4.1 **–**

–

18 A4.1 **–**

–

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED FOR: McDonald's USA, LLC

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PREPARED BY:

JAW Architects, Inc.
Jeramy Williams, Architect
Phone: 817-928-3387
Email: jeramy@jaw-arch.com

DRAWN BY: JAW | STD ISSUE DATE: 2026 | REVIEWED BY: JAW | DATE ISSUED: 04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
4590-WOOD/WOOD

DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

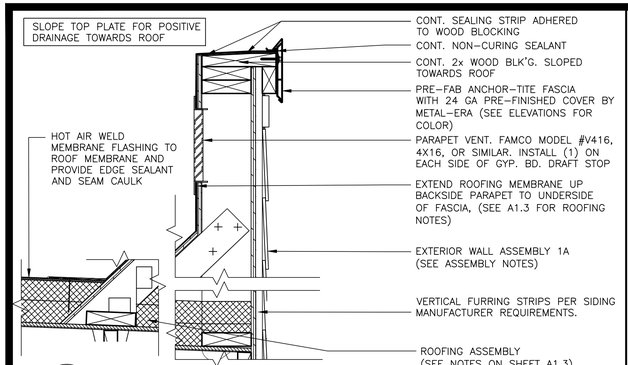
SITE ID: 024-1329

SITE ADDRESS: SWC OF E. NEW MELVILLE RD. & S. HUNT RD. WILLARD, MO 65781

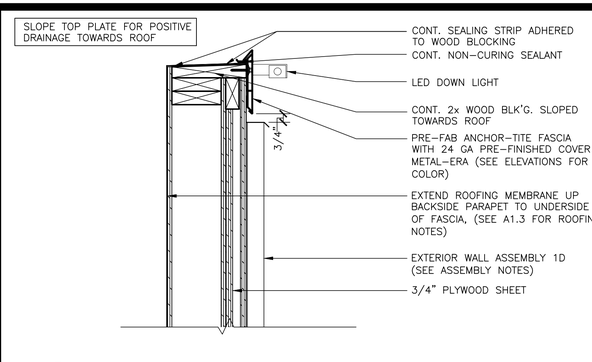
SHEET NO.: JAWA 26-0041

A4.1

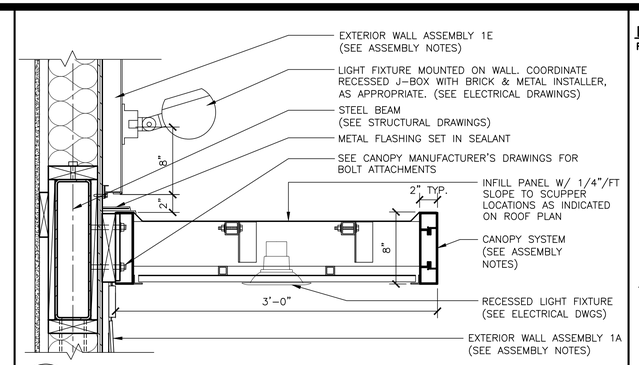
PLAN DETAILS



1 A5.0 **DETAIL- FASCIA @ PARAPET**
1 1/2" = 1'-0"



2 A5.0 **DETAIL- FASCIA @ AL PARAPET**
1 1/2" = 1'-0"



3 A5.0 **DETAIL- CANOPY ABOVE WINDOW**
1 1/2" = 1'-0"

5 A5.0 **WALL SECTION - RESTROOM**
3/4" = 1'-0"

6 A5.0 **WALL SECTION - DINING ROOM**
3/4" = 1'-0"

7 A5.0 **WALL SECTION - FREEZER/COOLER**
3/4" = 1'-0"

EXTERIOR WALL ASSEMBLIES

FROM EXTERIOR TO INTERIOR

1A. FIBER CEMENT HORIZONTAL LAP SIDING

1. JAMES HARDIE, HARDIEPLANK LAP SIDING, SMOOTH, 8 1/4" WIDTH, 7" EXPOSURE, HZ5, COLOR: SEE ELEVATIONS.
   a. COORDINATE FIBER CEMENT PANELS WITH FLASHING, TRIM, PARAPET WALLS AND OTHER ADJOINING WORK TO PROVIDE A LEAKPROOF, SECURE AND NONCORROSIVE INSTALLATION. INSTALL A 2" STARTER STRIP TO ENSURE A CONSISTENT PLANK ANGLE. OVERLAP PANELS 1 1/4" MIN. PROVIDE 7" EXPOSURE. SEE EXTERIOR ELEVATIONS.
   b. USE A POLYCRYSTALLINE DIAMOND-TIPPED FIBER CEMENT BLADE FOR CIRCULAR, MITER, AND TABLE SAWS.

1B. TRU EXTERIOR

1. 1"X6" PRE-PRIMED TRIM. COLOR: SEE ELEVATIONS. NAIL TRIM PIECES IN PLACE WITHIN 2" OF THE EDGE OF THE TRIM PIECE AND EVERY 16" ALONG THE LENGTH OF THE TRIM, USING MANUFACTURER APPROVED NAILS. INSTALL PER LOCAL CODES AND MANUFACTURERS SPECIFICATIONS.

1C. NOT USED

1D. METAL ERA ALUMINUM BATTEN SYSTEM

1. ALUMINUM BATTEN W/MOUNTING BACK RAIL. SIZE: 2" WIDE x 2" DEEP. REFER TO EXTERIOR ELEVATIONS FOR COLOR. INSTALL PER LOCAL CODES AND MANUFACTURERS SPECIFICATIONS ON TERMINATION AND INSTALLATION DETAILS. BY SUPPLIER. GC INSTALL
2. 1/2" EXTERIOR HIGH DENSITY OVERLAY (HDO) PLYWOOD, BB, GROUP 1. HDO BOTH FACES. APA TRADEMARKED. SAND WITH COURSE GRIT ALL SURFACES PRIOR TO PRIMING. PRIME AND PAINT BOTH SIDES AND ALL EDGES. BY GC, INSTALL BY GC. ALUM EDGE TRIM BY GC. COLOR TO MATCH SUBSTRATE.
3. ALUMINUM CHANNEL BY GC, INSTALL BY GC

1E. CITADEL METAL COMPOSITE MATERIAL

1. 4MM CITADEL E200 METAL PANEL KIT. SEE ELEVATIONS FOR COLOR, PROVIDE MFG. SHOP DRAWINGS TO ARCHITECT FOR REVIEW. Mcdonalds@metalera.com
2. USE 1X FURRING STRIPS W/ HARDIE BOARD SIDING. PER MANUFACTURER. (USE 3/4" PLYWOOD BEHIND BATTEN SYSTEM)
3. PERMEABLE BUILDING WRAP OVER 1/2" EXTERIOR GRADE PLYWOOD. INSTALL PER LOCAL CODES AND MFR'S SPEC'S.
4. 2x6 WOOD STUD FRAMING @ 16" O.C. (WITH CONTINUOUS DRAFTSTOP/FIRESTOP BLOCKING AT FINISH CEILING LEVEL).
5. 5 1/2" THICK UNFACED BATT INSULATION (R VALUE = 20 MIN.).
6. "CERTAINTEED MEMBRAIN" SMART VAPOR RETARDER (SEMI-VAPOR PERMEABLE) BY CERTAINTEED OR EQUAL.
7. 1X6 HORIZONTAL WOOD FURRING STRIPS @ 24" O.C. FOR ALL DINING ROOM EXTERIOR WALLS HOUSING STOREFRONT WINDOW ASSEMBLY.
8. 1/2" CEMENT BOARD SUBSTRATE FOR ALL TILE LOCATIONS. (TYP.) NON TILE LOCATIONS: 1/2" GYPSUM BOARD TO EXTEND TO DECK ABOVE. UNLESS NOTED OTHERWISE. ALL GYP. BOARD MUST SCORE 10 PER ASTM D3273. REFERENCE CURRENT PROJECT MANUAL.
9. SEE A1.0 & ROOM FINISH SCHEDULE FOR ADDITIONAL SUBSTRATE INFORMATION.

EXTERIOR WINDOW ASSEMBLY

(STOREFRONT & ENTRANCE SYSTEM)

GLAZING REQ'S: U VALUE = 0.38 U VALUE "DOOR"= 0.77 SHGC = 0.36

1. DARK BRONZE ANODIZED ALUMINUM FRAME, THERMALLY BROKEN WITH HEAD RECEIVER CHANNEL.
2. 1" TEMPERED INSULATED GLAZING
3. PROVIDE FLASHING AT HEAD & SILL – CONTINUOUS SEALANT.
4. PROVIDE METAL SILL CAP AS SHOWN IN DETAILS
5. 1/2" CORIAN SILL AT INTERIOR

CANOPY SYSTEM

CANOPY INFORMATION SHOWN IN CONSTRUCTION DOCUMENTS IS FOR DESIGN INTENT ONLY. APPROVED MANUFACTURERS SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FINAL DESIGN. REFER TO ELEVATIONS FOR COLOR OF ELEMENTS

1. CANOPY STRUCTURE/OUTRIGGERS: CONT. 2" x 8" PAINTED ALUM. TUBE. PROVIDE CLOSURE PIECE WHERE TUBE ENDS ARE EXPOSED.
2. WHERE INDICATED ON ROOF PLAN, PROVIDE PAINTED ALUM. PANEL INFILL WITH INTEGRAL SCUPPER TO MATCH OUTRIGGERS. PANEL TO PROVIDE POSITIVE SLOPE FOR DRAINAGE.
3. SYSTEM SHALL ALLOW FOR MOVEMENT AT EXPANSION JOINTS AND FOR MOVEMENT OF EXTERIOR WALL SYSTEM ON WHICH THE CANOPY IS MOUNTED.
4. STRUCTURAL ATTACHMENTS & LOAD CALCULATIONS SHALL BE FURNISHED BY CANOPY SYSTEM DESIGNER OF RECORD. SUPPLIER'S DESIGNER OF RECORD SHALL DESIGN PER PREVAILING CODES.
5. CANOPY SYSTEM SHALL BE SELECTED FROM ONE OF THE SUPPLIERS LISTED BELOW.
6. MANUFACTURER SHALL PROVIDE INSTALLER WITH INSTALLATION INSTRUCTIONS. MANUFACTURER SHALL DESIGN CANOPY IN ACCORDANCE WITH THE WALL SYSTEM AND BLOCKING AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
7. INSTALLER SHALL NOTIFY CANOPY DESIGNER OF RECORD, McDONALD'S ACM, G.C. AND ARCHITECT OF ANY DEFICIENCIES THAT WOULD NOT ALLOW FOR THE PROPER INSTALLATION OF THE CANOPY. CANOPY SHALL NOT BE INSTALLED UNTIL DEFICIENCIES HAVE BEEN CORRECTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE CANOPY MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CANOPY SYSTEM BY:

AWNEX (770) 704-7140
www.awnexinc.com

ALL-LITE (817) 509-2300
www.alllite.com

GREENHECK (715) 355-3942
www.greenheck.com

FOUNDATION AND PERIMETER INSULATION

1. SEE STRUCTURAL DRAWINGS FOR FOUNDATION AND SLAB DETAILS.
2. PROVIDE RIGID UNDERSLAB INSULATION AS FOLLOWS:
   - VERTICALLY FROM TOP OF SLAB DOWN TO 24" BELOW: R-10 RIGID INSULATION.

4 A5.0 **ASSEMBLY NOTES**

REV	DATE	DESCRIPTION	BY

PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-5387
Email: jeremy@jaw-work.com

PREPARED FOR:
McDonald's USA, LLC

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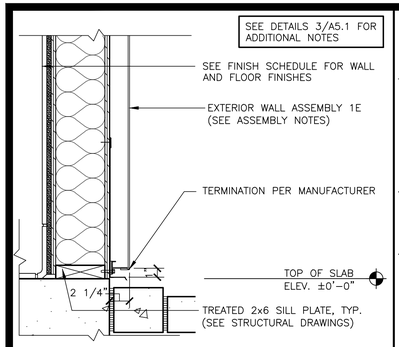
DRAWN BY	JAW
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

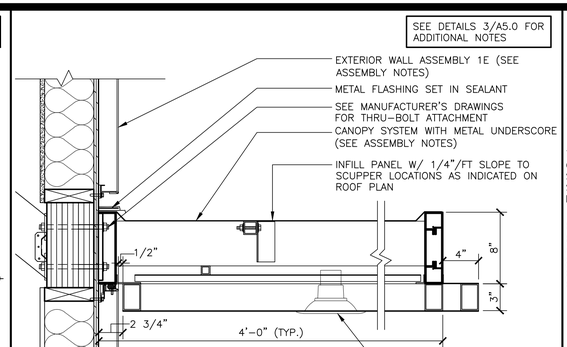
TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024-1329
SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

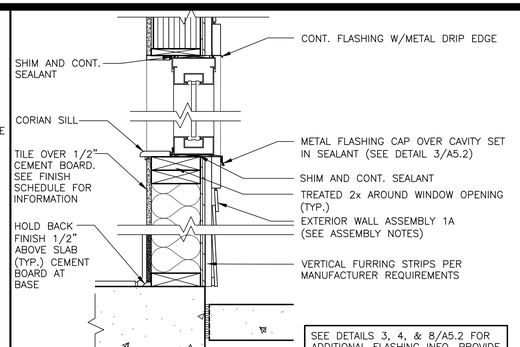
SHEET NO.: JAWA 26-0041
A5.0
WALL SECTIONS



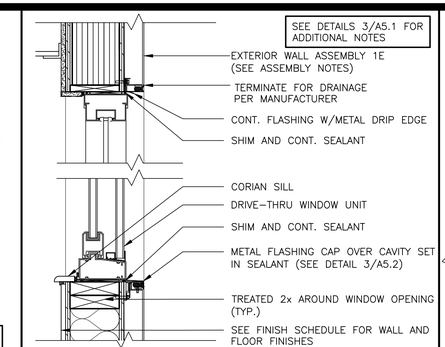
1 A5.1 **DETAIL– CITADEL TERMINATION**
1 1/2" = 1'–0"



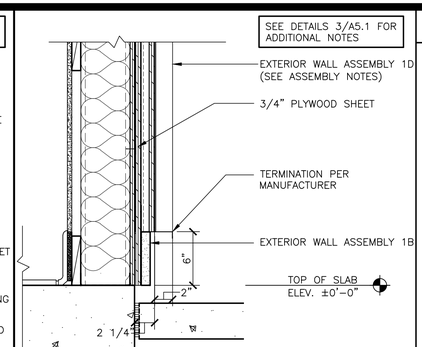
2 A5.1 **DETAIL– DRIVE THRU CANOPY SYSTEM**
1 1/2" = 1'–0"



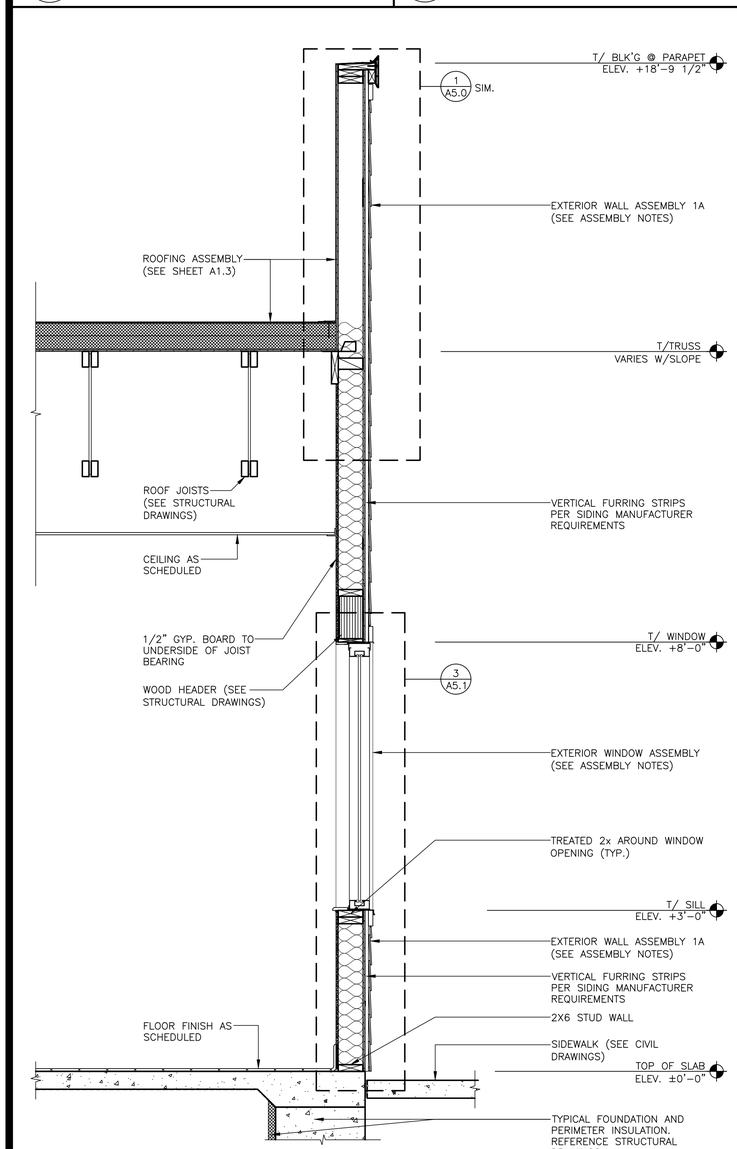
3 A5.1 **SECTION @ WINDOW**
1 1/2" = 1'–0"



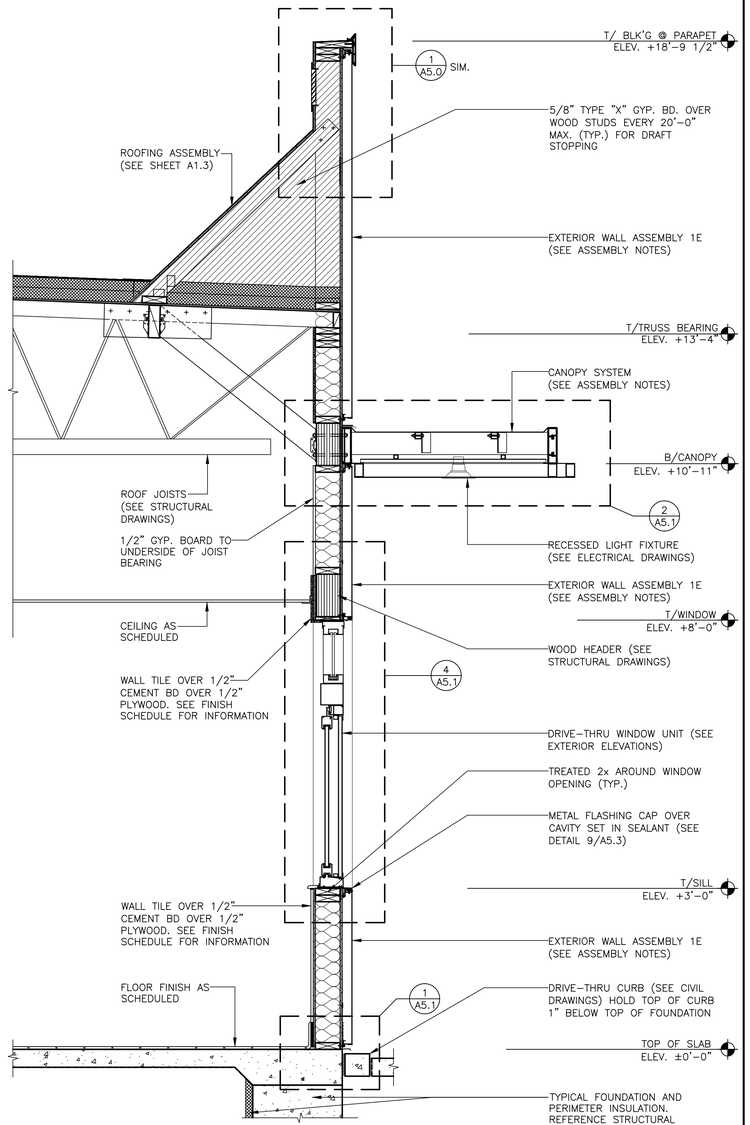
4 A5.1 **SECTION @ DRIVE–THRU WINDOW**
1 1/2" = 1'–0"



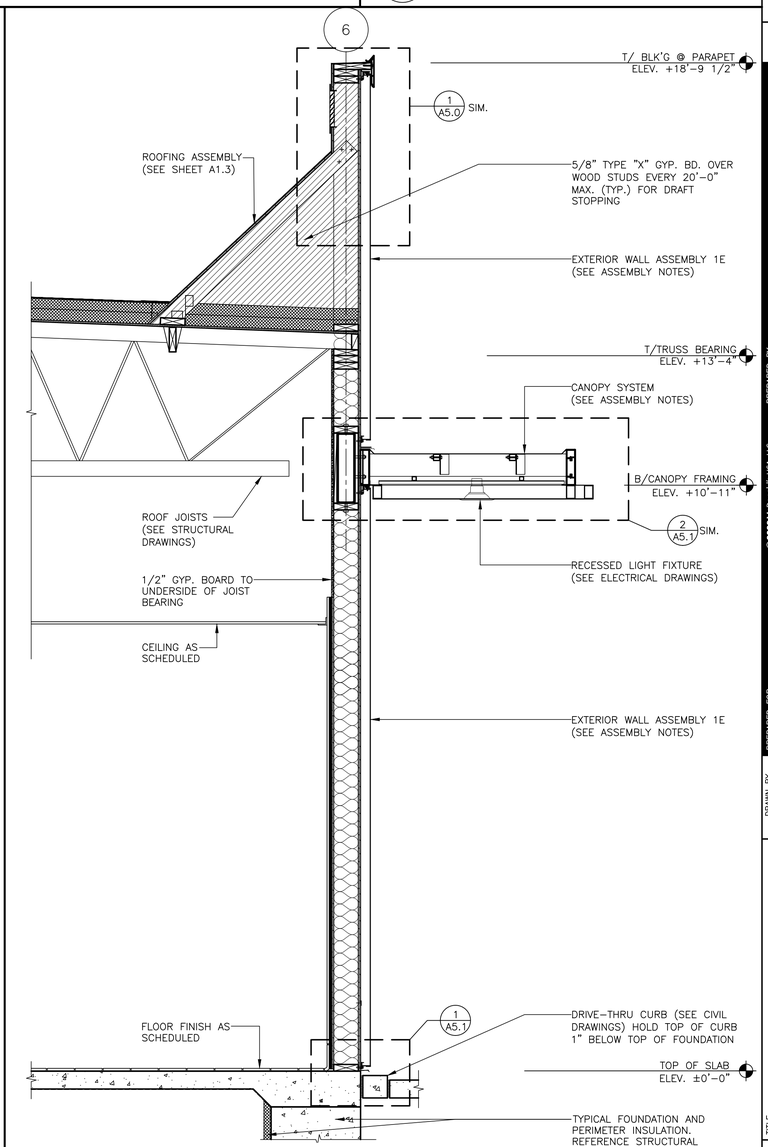
5 A5.1 **DETAIL– BATTEN TERMINATION**
1 1/2" = 1'–0"



6 A5.1 **WALL SECTION – CREW ROOM**
3/4" = 1'–0"



7 A5.1 **WALL SECTION – ORDER WINDOW**
3/4" = 1'–0"



8 A5.1 **WALL SECTION – PRESENTER WINDOW**
3/4" = 1'–0"

REV	DATE	DESCRIPTION	BY

PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
Email: jeremy@jaw-arch.com

PREPARED FOR: McDonald's USA, LLC
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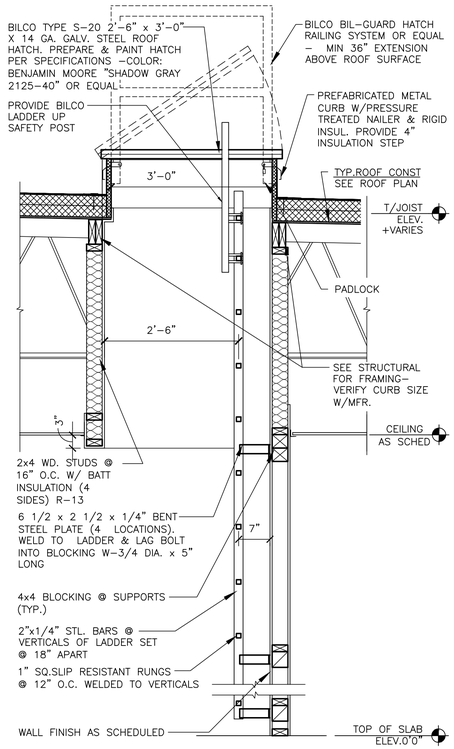
DRAWN BY	JAW
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

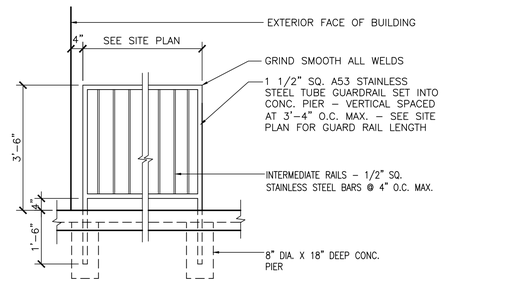
TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
SITE ID: 024–1329

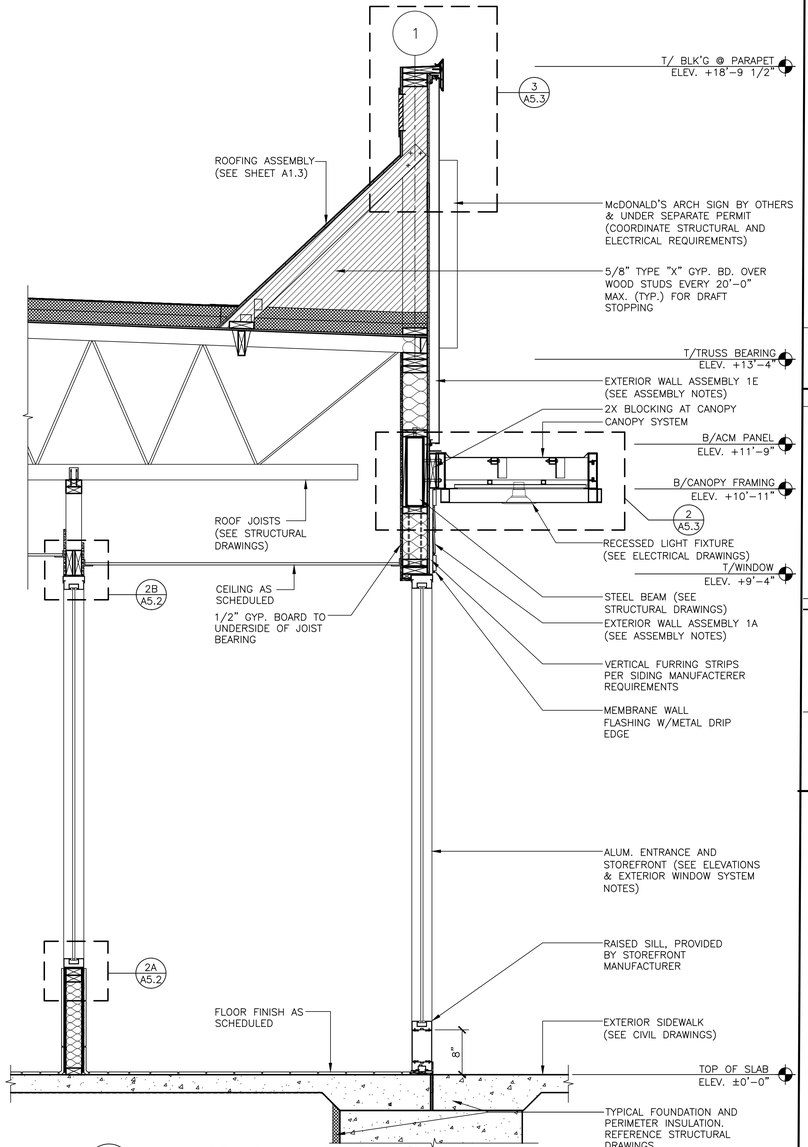
SHEET NO.: JAWA 26–0041
A5.1
WALL SECTIONS



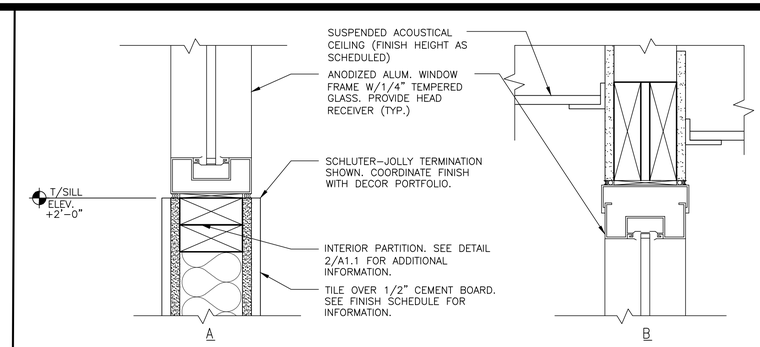
10 A5.2 **SECTION @ INTERIOR LADDER**
3/4" = 1'-0"



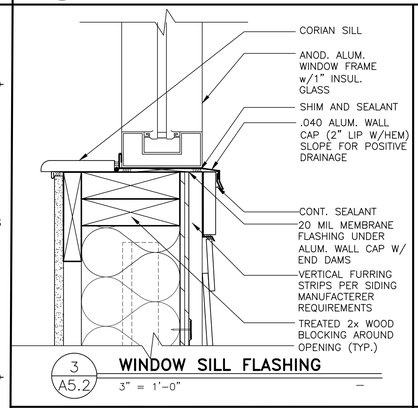
11 A5.2 **GUARD RAIL DETAIL**
1/2" = 1'-0"



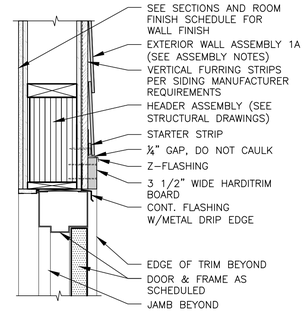
7 A5.2 **WALL SECTION - VESTIBULE/ENTRY**
3/4" = 1'-0"



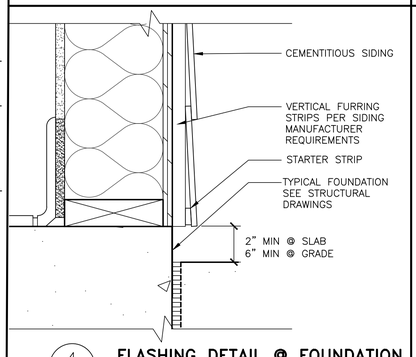
2 A5.2 **HEAD & SILL INTERIOR VESTIBULE WALL**
3" = 1'-0"



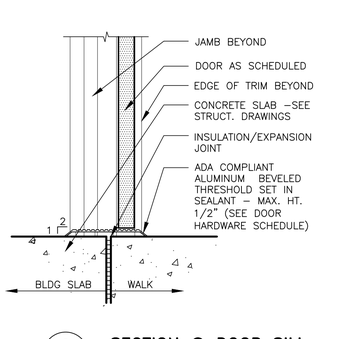
3 A5.2 **WINDOW SILL FLASHING**
3" = 1'-0"



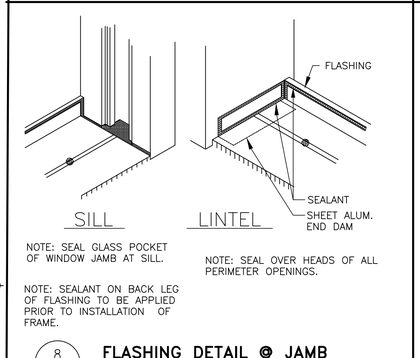
5 A5.2 **SECTION @ DOOR HEAD**
1 1/2" = 1'-0"



4 A5.2 **FLASHING DETAIL @ FOUNDATION**
3" = 1'-0"



6 A5.2 **SECTION @ DOOR SILL**
1 1/2" = 1'-0"



8 A5.2 **FLASHING DETAIL @ JAMB**
N.T.S.

REV	DATE	DESCRIPTION	BY

PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
Email: jeremy@jaw-arch.com

PREPARED FOR:
McDonald's USA, LLC

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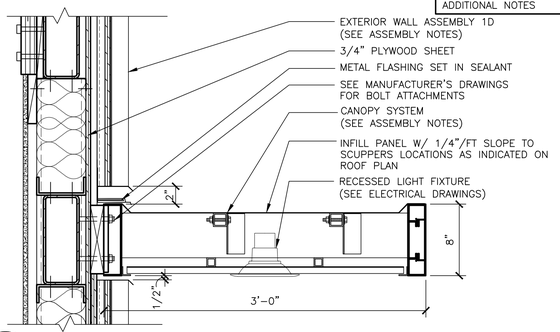
DRAWN BY	JAW
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

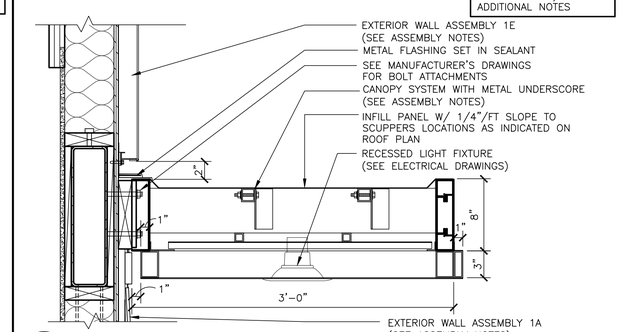
SITE ID: 024-1329
SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO.
JAWA 26-0041
A5.2
WALL SECTIONS



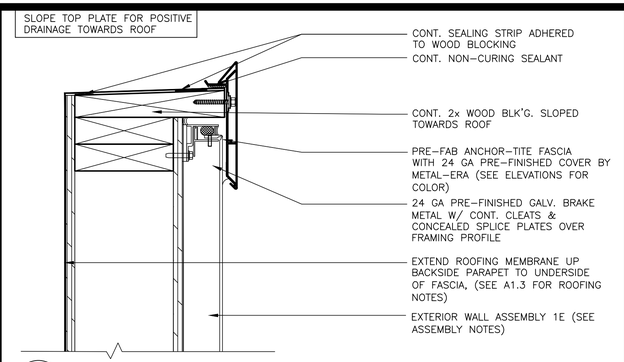
1 A5.3 **DETAIL– CANOPY @ BATTENS**

1 1/2" = 1'–0"



2 A5.3 **DETAIL– CANOPY ABOVE ENTRY**

1 1/2" = 1'–0"

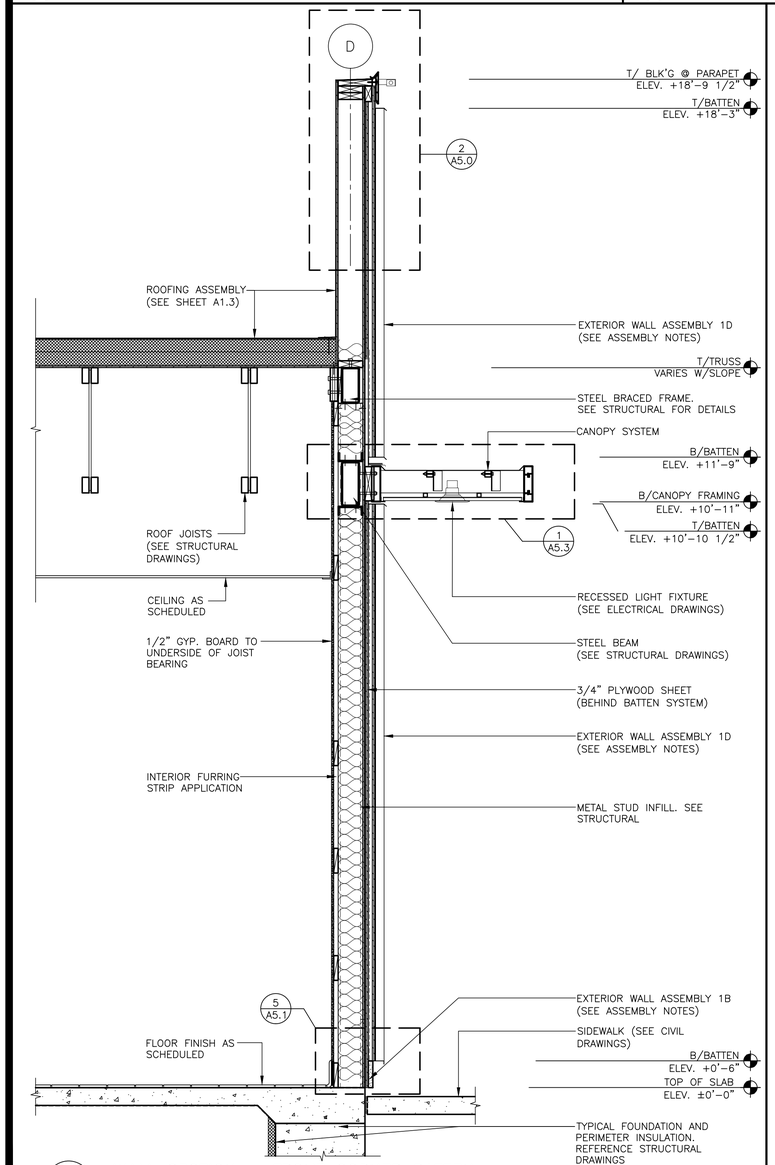


3 A5.3 **DETAIL– FASCIA @ ACM PARAPET**

3" = 1'–0"

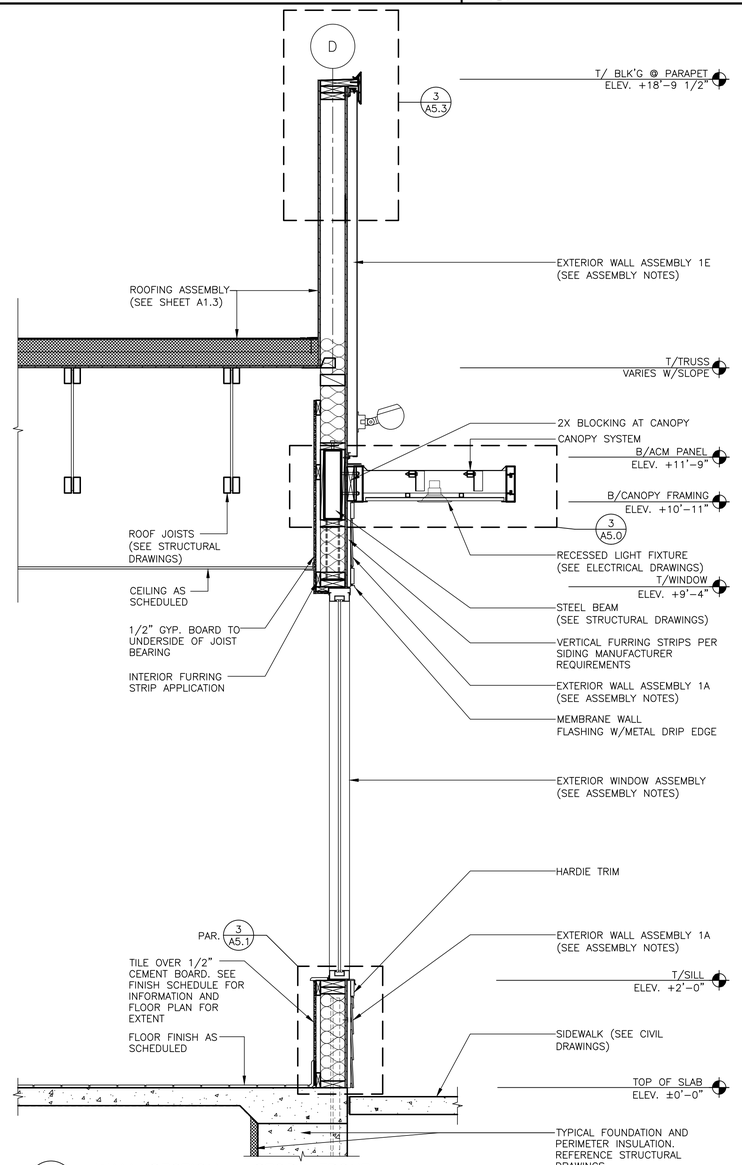
4 A5.3 **NOT USED**

–



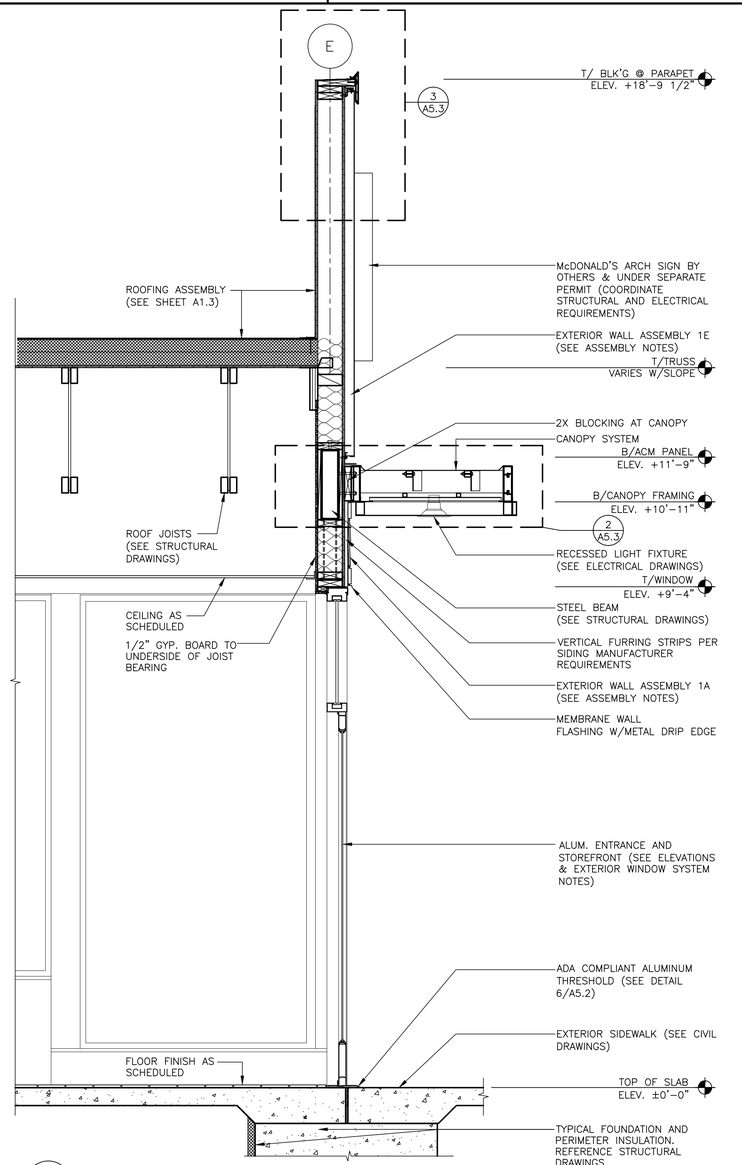
5 A5.3 **WALL SECTION – FRONT CORNER BATTEN**

3/4" = 1'–0"



6 A5.3 **WALL SECTION – STORE FRONT**

3/4" = 1'–0"



7 A5.3 **WALL SECTION – FRONT ENTRANCE**

3/4" = 1'–0"

REV	DATE	DESCRIPTION	BY

PREPARED BY:

JAW Architects, Inc.
Jeremy Williams, Architect
Phone 817-703-3387
Email: jeremy@jaw-arch.com

PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED
JAW	2026	JAW	04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20 4590–WOOD/WOOD

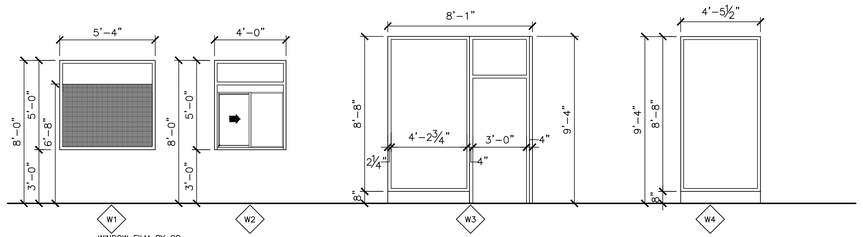
DESCRIPTION: WOOD BEARING WALLS WOOD ROOF TRUSS FRAMING

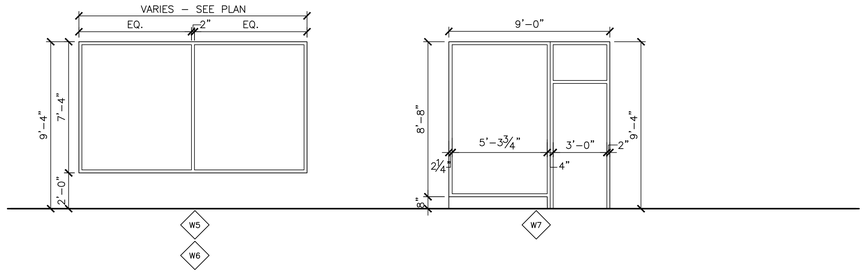
SITE ID: 024–1329

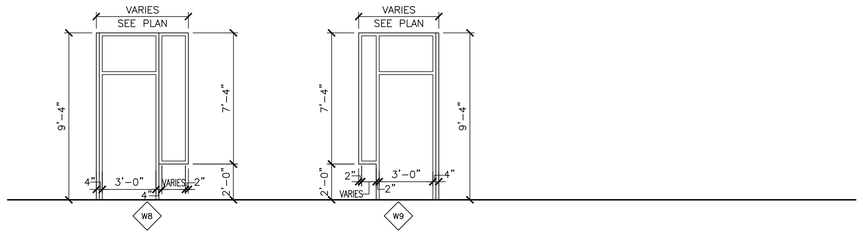
SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO.: JAWA 26–0041 **A5.3** WALL SECTIONS

FRAME TYPES



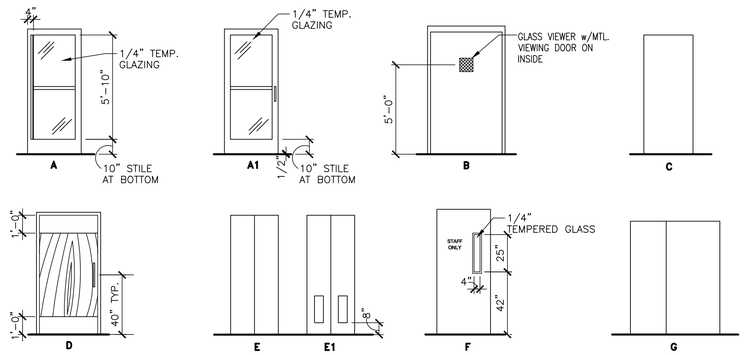




EXTERIOR WINDOW ASSEMBLY
(STOREFRONT & ENTRANCE SYSTEM)
FOR GLAZING & FRAME REQUIREMENTS: SEE EXTERIOR WINDOW ASSEMBLY, 4/A5.0

INTERIOR WINDOW ASSEMBLY
(STOREFRONT & ENTRANCE SYSTEM)
1. EXTRA DARK BRONZE ALUMINUM FRAME, THERMALLY BROKEN WITH HEAD RECEIVER CHANNEL.
2. 1/4" CLEAR TEMPERED GLAZING
3. 1/2" CORIAN SILL EACH SIDE

DOOR SCHEDULE



DOOR TYPES

DOOR HARDWARE

GENERAL NOTES:
1. ALL EXIT DOORS SHALL BE KEYLESS IN THE DIRECTION OF EGRESS.
2. THE OPENING FORCE OF ALL EXT. PUSH/PULL DOORS SHALL NOT EXCEED 8 1/2 LBS.
3. THE OPENING FORCE OF ALL INTERIOR PUSH/PULL DOORS SHALL NOT EXCEED 5 LBS.
4. PROVIDE PANIC HARDWARE FOR ALL EXTERIOR DOORS AS NOTED ON THE DOOR SCHEDULE.
5. ALL DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.

DOOR #1 – ENTRY DOOR/EMERGENCY EXIT
1. 1 EA CLOSER LCN 4021 x 18
2. 3 EA HINGES OFFSET PIVOT ANSI –A–156.4 GRADE 1; PROVIDE EXPOSED PARTS OF CAST ALUMINUM ALLOY, AS SUPPLIED BY DOOR MANUFACTURER.
3. 1 EA PAL HANDLE BROCKPORD MFG. MODEL: RM3311, SIZE: 1–1/4" DIA. CTC: 5'–10", FINISH: BLACK POWDER COAT (BPC), OFFSET MOUNTING: TYPE 1XHD – THRU BOLT HEAVY DUTY
4. 1 EA PANIC HARDWARE ADAMS RITE MFG. CO. 8800 SERIES WITH OUTSIDE CYLINDER (FINISH TO MATCH STOREFRONT DOOR)
5. 1 EA THRESHOLD NATIONAL GUARD PRODUCTS, INC. SADDLE TYPE THRESHOLD 325, 36" WIDE x 1/2" RISE (ADA ACCESSIBLE).
6. 1 EA WEATHER STRIPPING: PROVIDE COMPRESSION WEATHER STRIPPING AGAINST FIXED STOPS. AT OTHER EDGES PROVIDE SLIDING WEATHER STRIPPING RETAINED IN ADJUSTABLE STRIP MORTISED INTO DOOR EDGE. PROVIDE EPDM OR VINYL GASKET WEATHER STRIPPING IN BOTTOM DOOR RAIL ADJUSTABLE FOR CONTACT W/ THRESHOLD.
7. 1 EA SIGN MOUNT ONTO DOOR, TO READ "THIS DOOR MUST REMAIN UNLOCKED WHENEVER THE BUILDING IS OCCUPIED/DURING BUSINESS HOURS."

DOOR #2 & #2A– VESTIBULE
1. 1 EA CLOSER LCN 4041 x 18
2. 3 EA HINGES OFFSET PIVOT ANSI –A–156.4 GRADE 1; BY DOOR MANUFACTURER.
3. 1 EA PUSH/PULL HANDLE HAGER PUSH/PULL SET 164D/V/B.
4. 1 EA (DOOR #2A) PANIC HARDWARE ADAMS RITE MFG. CO. 8800 SERIES WITH OUTSIDE CYLINDER (FINISH TO MATCH STOREFRONT DOOR)

DOOR #3 – STORAGE DELIVERY
1. 1 EA HINGE 780–112HD 83" ALUM HAGER
2. 1 EA CLOSER 4111 H–CUSH ALUM LCN
3. 1 EA PANIC 9975EO–LD 48" SP28 V.DUPRIN
4. 1 EA TRIM 990DT US26D V.DUPRIN
5. 1 EA ALARM LOCK PG21MSS ALARM
6. 1 EA LOCKGUARD CLP110 US32D DON–JO
7. 1 EA WTH/STP160V 48 X 84 N.GUARD
8. 1 EA SWEEP 101VA 48" N.GUARD
9. 1 EA VIEW FRAME LVGLFMD 9 X 9 DKB W/FLAP ON INSIDE N.GUARD
10. 1 EA MORTISE CYL HOUSING 7PIN SFIC 626
11. 1 EA 7 PIN CONSTRUCTION CORE FOR ABOVE 626
12. 1 EA CONTROL KEY FOR ABOVE
13. SEE A1.1 FOR 3/16" DIAMOND PLATE THRESHOLD BY DIAMOND PLATE PROTECTION CONTRACTOR
14. SEE A1.1 FOR 1/8" DIAMOND KICK PLATE SCOPE BY DIAMOND PLATE PROTECTION CONTRACTOR
15. (OPTIONAL) 1 EA THRESHOLD 325HD 48" N.GUARD

DOOR #3A – FREEZER DELIVERY (DOUBLE DOOR)
1. 2 EA CONTINUOUS HINGE A210HDC 83
2. 1 EA DEADBOLT B661P 626 SCHLAGE
3. 1 EA LATCH PROTECTOR CLP–110 630
4. 1 EA PULL H3E US28 HAGER
5. 1 EA GASKETING 160V 1 x 60" 2 x 84" SMS–TEKS 6 x 3/4"
6. 1 EA DRIP CAP 16 A 64" SMS–TEKS 6 x 3/4"
7. 2 EA SURFACE BOLT 275D 8" US26D
8. 1 EA SWEEP 101VA 24" N.GUARD
9. 1 EA SWEEP 101VA 36" N.GUARD
10. 1 EA OVERHEAD DOOR HOLDER 60–17–CON–SZ1–US32D–SX1N HAGER
11. 1 EA OVERHEAD DOOR HOLDER 60–17–CON–SZ2–US32D–SX1N HAGER
12. SEE A1.1 FOR 3/16" DIAMOND PLATE THRESHOLD BY DIAMOND PLATE PROTECTION CONTRACTOR
13. SEE A1.1 FOR 1/8" DIAMOND KICK PLATE SCOPE BY DIAMOND PLATE PROTECTION CONTRACTOR
14. (OPTIONAL) 1 EA THRESHOLD 325HD 60" N.GUARD

DOOR #4 – REAR EXIT
1. 1 EA HINGE 780–112HD 83" ALUM HAGER
2. 1 EA CLOSER 4111 H–CUSH ALUM LCN
3. 1 EA PANIC 9975EO–LD 36" SP28 V.DUPRIN
4. 1 EA TRIM 990DT US26D V.DUPRIN
5. 1 EA ALARM LOCK PG21MSS ALARM
6. 1 EA LOCKGUARD CLP110 US32D DON–JO
7. 1 EA TREADPLATE 24 X 34 UMCO
8. 1 EA WTH/STP160V 36 X 84 N.GUARD
9. 1 EA THRESHOLD 325HD 36" N.GUARD
10. 1 EA SWEEP 101VA 36" N.GUARD
11. 1 EA VIEW FRAME LVGLFMD 9 X 9 DKB W/FLAP ON INSIDE N.GUARD
12. 1 EA MORTISE CYL HOUSING 7PIN SFIC 626
13. 1 EA 7 PIN CONSTRUCTION CORE FOR ABOVE 626
14. 1 EA CONTROL KEY FOR ABOVE

DOOR #5 – RESTROOM ENTRY
1. 3 EA HINGE BB1279 4 ½ X 4 ½ US26D HAGER
2. 1 EA CLOSER LDPA4031 SNB ALUM LCN
3. 1 EA PUSH PLATE 30S 4 X 32 US32D 40"AFF MOUNTED TO CENTER OF PLATE
4. 1 EA PULL PLATE LADDER PULL HANDLE WITH DECORATIVE FIXING, 32"L 1"DIA #S–32–1000 – UMCO 32D, 40" AFF MOUNTED CENTER OF PULL
   ALT. OPTION: 1 EA PULLPLATE SANITGRASP
   ALT. OPTION: 1 EA PULL–PUSH BUTTON CYLINDRICAL LOCK – TRILOGY DL2700 US26D CHROME
5. 2 EA KICKPLATE 190S 8 X 34 US32D HAGER
6. 1 EA DOOR STOP 236W US32D HAGER
7. 1 EA FINGER GRD MKIA PUSH SIDE BRN F.SAFE
8. 1 EA FINGER GRD MKIB PULL SIDE BRN F.SAFE
9. 1 EA STEPNPULL PULL SIDE (OPTIONAL)

DOOR #6 – ADA STALL
1. 2 EA HINGE 1250 4 ½ X 4 ½ US26D HAGER
2. 1 EA HINGE BB1279 4 ½ X 4 ½ US26D HAGER
3. 1 EA DEADBOLT B571 X 10–087 214EE X 12 X 291 X 626 SCHLAGE
4. 2 EA BACK TO BACK LADDER PULL HANDLE, 16"L, 1"DIA #S–16–1000 BTB–UMCO 32D MOUNTED 6" FROM EDGE OF DOOR TO CENTER OF SCREWS – 28½" MOUNTED 28½" FROM TOP OF DOOR TO C/L OF PULL
5. 1 EA ROBE HOOK 917 BRADLEY
6. 1 EA DOOR STOP 236W US32D HAGER

DOOR #6A – STANDARD STALL
1. 2 EA HINGE 1250 4 ½ X 4 ½ US26D HAGER
2. 1 EA HINGE BB1279 4 ½ X 4 ½ US26D HAGER
3. 1 EA DEADBOLT B571 X 10–087 214EE X 12 X 291 X 626 SCHLAGE
4. 2 EA BACK TO BACK LADDER PULL HANDLE, 16"L, 1"DIA #S–16–1000 BTB–UMCO 32D MOUNTED 6" FROM EDGE OF DOOR TO CENTER OF SCREWS – 28½" MOUNTED 28½" FROM TOP OF DOOR TO C/L OF PULL
5. 1 EA ROBE HOOK 917 BRADLEY
6. 1 EA DOOR STOP 236W US32D HAGER

DOOR #7 – DINING ROOM JANITORS CLOSET
1. 1 EA NGP SLSS1 TOP MOUNT BARN DOOR TRACK, STAINLESS STEEL – 78–3/4", SOFT CLOSE
2. 1 EA ROCKWOOD 872 CAST FLUSH PULL 1–5/16 X 3–1/8", SATIN CHROMIUM PLATED 626/US26D

DOOR #8 & #8A – COMPUTER CLOSET
1. 8 EA HINGE BB1279 4 ½ X 4 ½ US26D HAGER
2. 1 EA LOCK ND80PD RHO 626 SCHLAGE
3. 2 EA FLUSH BOLT 283D US26D HAGER
4. 2 EA (DOOR #8A) LOUVER L–700–RX, AFDL 6 X 18 N.GUARD

DOOR #9A & #9B – COOLER
1. ALL DOOR HARDWARE FOR THE REFRIGERATED COOLER / FREEZER SHALL BE PROVIDED BY THE MANUFACTURER.
   MANUFACTURER: KOLPAK @ HY 641 N. McCORKLE PARK ROAD PARSONS, TN 38363 PHONE: 800–344–4675
   HARDWARE PROVIDED:
   1. MAGNETIC PERIMETER DOOR GASKET
   2. THRESHOLD REINFORCED PLASTIC (FRP)
   3. POSI–SEAL DOOR CLOSURE
   4. STATIONARY CHROME DOOR PULL HANDLE
   5. INTERIOR SAFETY RELEASE HANDLE
   6. HINGES – BRUSHED CHROME CAST ALLOY
2. SEE A1.1 FOR 3/16" DIAMOND PLATE THRESHOLD BY DIAMOND PLATE PROTECTION CONTRACTOR.
3. SEE A1.1 FOR 1/8" DIAMOND KICK PLATE SCOPE BY DIAMOND PLATE PROTECTION CONTRACTOR.

DOOR #10
1. 1 EA HINGE 780–112HD 83" ALUM HAGER
2. 1 EA CLOSER 1461 RW/PA ALUM LCN
3. 1 EA LOCK ND80PD RHO 626 SCHLAGE
   OPTIONAL – FOR OUTSWING DOOR REPLACE WITH 3A&B:
   3A. 1 EA PANIC 9975EO–LD 36" SP28 V.DUPRIN
   3B. 1 EA TRIM 990DT US26D V.DUPRIN
4. 1 EA ELEC STRIKE 6211 24V DC FSE US32D SCHLAGE
5. 1 EA PWR SUPPLY PS902 SCHLAGE
6. 1 EA ANNUNCIATOR BSV–24P SURFACE MOUNTED
7. 3 EA PUSH BUTTON 621–BK–DA HDP 626 SCHLAGE
8. 1 EA PUSH BUTTON 621–RD–DA HDP 626 SCHLAGE
9. 1 EA HORN WITH STROBE 1910S SCHLAGE
10. 1 EA GLASS 5 X 26 X ¼ UMCO
11. 1 EA VIEW FRAME LFRA100 6 X 27 DKB N.GUARD

DOOR #15 CO2
1. 1 EA HINGE 780–112HD 83" ALUM HAGER
2. 1 EA LOCK ND80PD RHO 626 SCHLAGE
3. 1 EA LOCK GUARD CLP110 US32D DON JO
4. 1 EA WTH/STP 160V 36 X 84 N.GUARD
5. 1 EA THRESHOLD 425E 36" N.GUARD
6. 1 EA SWEEP 101VA 36" N.GUARD
7. 1 EA SEC. LOUVER LVRSG–3 DKB 18 X 18 N.GUARD

DOOR #16 CREW ROOM
1. 3 EA HINGE BB1279 4 ½ X 4 ½ US26D HAGER
2. 1 EA ND60PD RHO VESTIBULE LEVER LOCK SCHLAGE

DOOR #17 DUMPSTER
1. ~~3 EA HINGE 780–112HD 83" ALUM HAGER~~
2. ~~1 EA DEADBOLT B663P 626 SCHLAGE~~
3. ~~1 EA PULL H3E US28 HAGER~~
4. 1 EA LOCKGUARD CLP110 US32D DON–JO
5. 1 EA TREADPLATE 24 X 46 UMCO
6. 1 EA WTH/STP 160V 48 X 84 N.GUARD
7. 1 EA THRESHOLD 325HD 48" N.GUARD
8. 1 EA SWEEP 101VA 48" N.GUARD
9. 1 EA SEC. LOUVER LVRSG–3 DKB 12 X 12 N.GUARD

DOOR SCHEDULE

DOOR SCHEDULE

MARK	DOOR MATERIAL	DOOR SIZE	TYPE	DOOR FINISH	FRAME MATL	FRAME SIZE	FRAME FINISH
1	ALUM.	3'–0"x7'–0"x1 3/4"	A		ALUM.	(NOTE 5)	
2	ALUM.	3'–0"x7'–0"x1 3/4"	A1		ALUM.	(NOTE 5)	
2A	ALUM.	3'–0"x7'–0"x1 3/4"	A1		ALUM.	(NOTE 5)	
3	H.M.	4'–0"x7'–0"x1 3/4"	B	INT: PAINT: BENJAMIN MOORE 2121–10 GRAY	H.M.	2"JAMB 4"HD	INT: PAINT: BENJAMIN MOORE 2121–10 GRAY
3A	H.M.	5'–0"x7'–0"x1 3/4"	G	INT: PAINT: BENJAMIN MOORE 2121–10 GRAY	H.M.	2"JAMB 4"HD	INT: PAINT: BENJAMIN MOORE 2121–10 GRAY
4	H.M.	3'–0"x7'–0"x1 3/4"	B	INT: PAINT: BENJAMIN MOORE 2121–10 GRAY	H.M.	2"JAMB 4"HD	INT: PAINT: BENJAMIN MOORE 2121–10 GRAY
5	S.C. WOOD W/ LAM.	3'–0"x6'–8"x1 3/4"	C	PER DECOR PORTFOLIO, SEE BELOW	H.M.	2"JAMB & HD	PER DECOR PORTFOLIO, SEE BELOW
				LUNA: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK EXT LAMINATE: LAMITECH 1467 MT LINEAL OAK			LUNA: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN EXT PAINT: BENJAMIN MOORE 2121–10 GRAY
				RT 66: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK EXT LAMINATE: WILSONART D90–60 NORTH SEA			RT 66: INT PAINT: BENJAMIN MOORE 2121–10 GRAY EXT PAINT: BENJAMIN MOORE 2134–40 WHALE GRAY
				RAY: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK EXT LAMINATE: LAMITECH 2255 MT IRON			RAY: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN EXT PAINT: BENJAMIN MOORE 1631 MIDNIGHT OIL
				VISTA: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK EXT LAMINATE: WILSONART 7990K–60 MISSION MAPLE			VISTA: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN EXT PAINT: SHERWIN WILLIAMS 7069 IRON ORE
6	S.C. WOOD W/ LAM.	3'–0"x4'–8"x1 3/4"	D	PER DECOR PORTFOLIO, SEE BELOW	H.M.	2"JAMB & HD	PER DECOR PORTFOLIO, SEE BELOW
6A	S.C. WOOD W/ LAM.	2'–6"x4'–8"x1 3/4"	D	PER DECOR PORTFOLIO, SEE BELOW	H.M.	2"JAMB & HD	PER DECOR PORTFOLIO, SEE BELOW
				LUNA: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK EXT LAMINATE: LAMITECH 1467 MT LINEAL OAK			LUNA: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN EXT PAINT: BENJAMIN MOORE 2121–10 GRAY
				RT 66: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK EXT LAMINATE: LAMITECH 1540 PR ONTARIO OAK			RT 66: INT PAINT: BENJAMIN MOORE 2121–10 GRAY EXT PAINT: BENJAMIN MOORE 2121–10 GRAY
				RAY: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK EXT LAMINATE: LAMITECH 1540 PR ONTARIO OAK			RAY: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN EXT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN
				VISTA: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK EXT LAMINATE: LAMITECH 1540 PR ONTARIO OAK			VISTA: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN EXT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN
7	S.C. WOOD W/ LAM.	3'–2"x6'–8"x1 3/4"	C	LAMINATE: WILSONART D92–60 DOVE GREY	N/A	N/A	
8	S.C. WOOD W/ LAM.	(2)1'–2"x8'–0"x1 3/4"	E	LAMINATE: WILSONART D92–60 DOVE GREY	H.M.	2"JAMB & HD	PAINT: BENJAMIN MOORE 2121–10 GRAY
8A	S.C. WOOD W/ LAM.	(2)1'–2"x8'–0"x1 3/4"	E1	LAMINATE: WILSONART D92–60 DOVE GREY	H.M.	2"JAMB & HD	PAINT: BENJAMIN MOORE 2121–10 GRAY
9A	INSULATED METAL	3'–0"x6'–6"x4"	C		N/A	N/A	
9B	INSULATED METAL	4'–0"x6'–6"x4"	C		N/A	N/A	
10	H.M.	3'–0"x7'–0"x1 3/4"	F	PER DECOR PORTFOLIO, SEE BELOW	H.M.	2"JAMB & HD	PAINT FRAME TO MATCH DOOR
				LUNA: INT PAINT: BENJAMIN MOORE 2121–10 GRAY EXT PAINT: BENJAMIN MOORE 2121–10 GRAY			
				RT 66: INT PAINT: BENJAMIN MOORE 2121–10 GRAY EXT PAINT: BENJAMIN MOORE 2134–40 WHALE GRAY			
				RAY: INT PAINT: BENJAMIN MOORE 2121–10 GRAY EXT PAINT: BENJAMIN MOORE 1117 GUESTHOUSE			
				VISTA: INT PAINT: BENJAMIN MOORE 2121–10 GRAY EXT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN			
15	H.M.	3'–0"x7'–0"x1 3/4"	C	INT: PAINT: BENJAMIN MOORE 2121–10 GRAY	H.M.	2"JAMB 4" HD	INT: PAINT: BENJAMIN MOORE 2121–10 GRAY
16	S.C. WOOD W/ LAM.	3'–0"x7'–0"x1 3/4"	C	PER DECOR PORTFOLIO, SEE BELOW	H.M.	2"JAMB & HD	PER DECOR PORTFOLIO, SEE BELOW
				LUNA: INT LAMINATE: LAMITECH 1557 PR SEASON ASH EXT LAMINATE: WILSONART D92–60 DOVE GREY			LUNA: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN EXT PAINT: BENJAMIN MOORE 2121–20 GRAY
				RT 66: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK EXT LAMINATE: LAMITECH 1540 PR ONTARIO OAK			RT 66: INT PAINT: BENJAMIN MOORE 2121–10 GRAY EXT PAINT: BENJAMIN MOORE 2121–10 GRAY
				RAY: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK EXT LAMINATE: LAMITECH 1540 PR ONTARIO OAK			RAY: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN EXT PAINT: BENJAMIN MOORE 2121–10 GRAY
				VISTA: INT LAMINATE: LAMITECH 1557 PR SEASON ASH EXT LAMINATE: LAMITECH 1540 PR ONTARIO OAK			VISTA: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN EXT PAINT: BENJAMIN MOORE 2121–10 GRAY
17	H.M.	4'–0"x7'–0"x1 3/4"	C	INT: PAINT: BENJAMIN MOORE 2121–10 GRAY	H.M.	2"JAMB 4" HD	INT: PAINT: BENJAMIN MOORE 2121–10 GRAY

GENERAL DOOR NOTES:
1. GC TO INSTALL ACCESSIBILITY DOOR SIGNS WHERE REQ'D BY LOCAL CODES – SEE GENERAL NOTE 6, SHEET A1.1.
2. ALARM CONTACT SWITCHES SHALL BE RECESSED INTO THE TOP OF THE DOOR & HOLLOW METAL FRAME ABOVE.
3. DOORS, DOOR FRAMES, & HARDWARE FOR DOORS 3, 3A, 4, 5, 6, 6A, 7, 8, 8A, 10, 15, 16, 17 SUPPLIED BY: UNIVERSAL MANUFACTURING 1–800–821–1414.
4. DOOR 9A & 9B SUPPLIED BY FREEZER/COOLER MANUFACTURER.
5. SEE ELEVATIONS AND WALL SECTIONS.
6. ALL INTERIOR SOLID CORE WOOD DOORS TO HAVE A LAMINATED FINISH.
7. DOOR 8A – 1" UNDERCUT FOR MAKE UP AIR.
8. DOOR 3, 3A, 4, 15 & 17 TO HAVE MAXIMUM U VALUE = 0.45

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED BY:

JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
Email: jeremy@jaw-work.com

PREPARED FOR:
McDonald's USA, LLC

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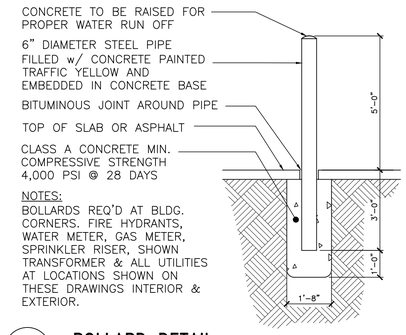
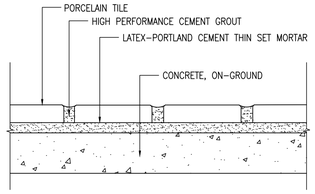
DRAWN BY: JAW
STD ISSUE DATE: 2026
REVIEWED BY: JAW
DATE ISSUED: 04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING
SITE ADDRESS: SWC OF E. NEW MELVILLE RD. & S. HUNT RD. WILLARD, MO. 65781
SITE ID: 024–1329

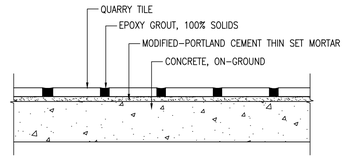
SHEET NO.: A6.0
JAWA 26–0041
DOOR & HARDWARE



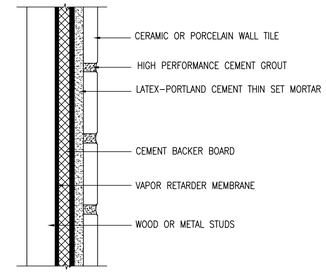
1 A6.1 **BOLLARD DETAIL**
N.T.S.



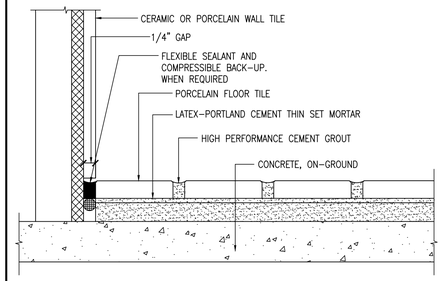
2 A6.1 **RESTROOM AND DINING ROOM FLOORS OVER CONCRETE**
N.T.S.



3 A6.1 **KITCHEN/SUPPORT FLOORS OVER CONCRETE**
N.T.S.



4 A6.1 **DINING ROOM INTERIOR WALLS OVER WOOD OR METAL STUDS**
N.T.S.



5 A6.1 **DINING ROOM PERIMETER JOINT**
N.T.S.

WALL TILE SCHEDULE – VISTA

MARK	ROOM NAME	WALL		MORTAR SETTING BED	GROUT
100	CUSTOMER SERVICE	CERAMIC OR PORCELAIN WALL TILE	(NOTE 5C)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
101	DINING	SEE DINING ROOM FINISH SCHEDULE	(NOTE 5B & 5C)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
102	WOMEN'S TOILET	CERAMIC OR PORCELAIN WALL TILE	(NOTE 4)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT (NOTE 4)
103	MEN'S TOILET	CERAMIC OR PORCELAIN WALL TILE	(NOTE 4)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT (NOTE 4)
104	SUPPORT	N/A – SEE ROOM FINISH SCHEDULE		----	----
105	KITCHEN	CERAMIC WALL TILE		LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
106	PRESENTER-1	CERAMIC WALL TILE		LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
107	ORDER	CERAMIC WALL TILE		LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
108	MANAGER'S OFFICE	CERAMIC WALL TILE		LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
109	CREW ROOM	SEE ROOM FINISH SCHEDULE	(NOTE 5B)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
110	COOLER	N/A – SEE ROOM FINISH SCHEDULE		----	----
111	FREEZER	N/A – SEE ROOM FINISH SCHEDULE		----	----
112	COMPUTER CLOSET	N/A – SEE ROOM FINISH SCHEDULE		----	----
113	CREW ALCOVE	CERAMIC WALL TILE		LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
114	JANITOR'S CLOSET	N/A – SEE ROOM FINISH SCHEDULE		----	----
115	VESTIBULE	CERAMIC WALL TILE		LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
116	PRESENTER-2	CERAMIC WALL TILE		LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
117	CO2	N/A – SEE ROOM FINISH SCHEDULE		----	----

FLOOR TILE SCHEDULE – VISTA ⚠1

MARK	ROOM NAME	FLOOR	BASE	MORTAR SETTING BED	GROUT
100	CUSTOMER SERVICE	PORCELAIN FLOOR TILE (NOTE 3)	NONE – WALL TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
101	DINING	PORCELAIN FLOOR TILE (NOTE 3)	NONE – WALL TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
102	WOMEN'S TOILET	PORCELAIN FLOOR TILE (NOTE 4)	NONE – WALL TILE (NOTE 5A)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
103	MEN'S TOILET	PORCELAIN FLOOR TILE (NOTE 4)	NONE – WALL TILE (NOTE 5A)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
104	SUPPORT	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
105	KITCHEN	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
106	PRESENTER-1	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
107	ORDER	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
108	MANAGER'S OFFICE	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
109	CREW ROOM	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
110	COOLER	QUARRY TILE (NOTE 2)	4" ALUM. COVED BASE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
111	FREEZER	QUARRY TILE (NOTE 2)	4" ALUM. COVED BASE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
112	COMPUTER CLOSET	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
113	CREW ALCOVE	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
114	JANITOR'S CLOSET	PORCELAIN FLOOR TILE	COVED QUARRY TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
115	VESTIBULE	PORCELAIN FLOOR TILE	NONE – WALL TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT
116	PRESENTER-2	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	CHEMICAL RESISTANT, WATER-CLEANABLE, TILE-SETTING EPOXY – 100% SOLIDS, INDUSTRIAL-GRADE
117	CO2	N/A – SEE ROOM FINISH SCHED	----	----	----

ROOM FINISH SCHEDULE – VISTA

MARK	ROOM NAME	WALLS			CEILING *	REMARKS
		SUBSTRATE	FINISH			
100	CUSTOMER SERVICE	CEMENT BOARD	TILE **	TILE AS NOTED ON A1.1 AND A3.1	2'x2' VINYL-FACED LAY-IN	
101	DINING	CEM BD/GYP BD	TILE/V.W.C. **	SEE DINING ROOM FINISH SCHEDULE	SEE DINING ROOM FINISH SCHEDULE	
102	WOMEN'S TOILET	CEMENT BOARD	TILE		PAINTED GYP. BD.	BENJAMIN MOORE – "OC-17 WHITE DOVE"
103	MEN'S TOILET	CEMENT BOARD	TILE		PAINTED GYP. BD.	BENJAMIN MOORE – "OC-17 WHITE DOVE"
104	SUPPORT	1/2" PLYWOOD (NOTE 4)	FRP	STAINLESS STEEL CORNERS	2'x2' VINYL-FACED LAY-IN	SEE NOTE 5 FOR WALL FINISH EXCEPTIONS
105	KITCHEN	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	2'x2' VINYL-FACED LAY-IN	SEE SHEET A1.1 FOR EXTENT OF CEMENT BOARD, SS OR CT
106	PRESENTER -1	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	2'x2' VINYL-FACED LAY-IN	
107	ORDER	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	2'x2' VINYL-FACED LAY-IN	
108	MANAGER'S AREA	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	2'x2' VINYL-FACED LAY-IN	
109	CREW ROOM	CEM BD/GYP BD	TILE/V.W.C. **	SEE NOTE 8	2'x2' ACOUST. LAY-IN	
110	COOLER	N/A	PREFAB METAL SKIN PANEL		PRE-FAB METAL SKIN PANEL	BASE SUPPLIED BY KES
111	FREEZER	N/A	PREFAB METAL SKIN PANEL		PRE-FAB METAL SKIN PANEL	BASE SUPPLIED BY KES
112	COMPUTER CLOSET	1/2" PLYWOOD (NOTE 4)	FRP		PAINTED GYP. BD.	
113	CREW ALCOVE	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	2'x2' VINYL-FACED LAY-IN	SEE SHEET A1.1 FOR EXTENT OF CEMENT BOARD, SS OR CT
114	JANITOR'S CLOSET	1/2" PLYWOOD (NOTE 4)	FRP/TILE	STAINLESS STEEL CORNERS	PAINTED GYP. BD.	EXT GRADE PLYWOOD (NOTE 5B)
115	VESTIBULE	CEM BD/GYP BD	TILE/V.W.C.	SEE DINING ROOM FINISH SCHEDULE	SEE DINING ROOM FINISH SCHEDULE	OPTIONAL PEDIMAT. SEE DETAIL 7/A6.1. VERIFY WITH MCD CONSTRUCTION MANGER
116	PRESENTER -2	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	2'x2' VINYL-FACED LAY-IN	
117	CO2	1/2" PLYWOOD (NOTE 4)	FRP	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	PAINTED GYP. BD.	EXT GRADE PLYWOOD (NOTE 4) SEE NOTE 7

DINING ROOM FINISH SCHEDULE – VISTA ⚠1

QUANTITY	TYPE		REMARKS
N/A	WALL TILE	CROSSVILLE – COLOR BY NUMBERS, TEA FOR TWO MATTE 4"X12", VERTICAL RUNNING BOND	GROUT: MAPEI ULTRACOLOR SILVER 09 – JOINT 1/16" MAX
N/A	WALLCOVERING	MOMENTUM, NA-5C-MC600 VISTA WOODGRAIN	
N/A	WALLCOVERING MURAL	MOMENTUM, TYPES VARY: SEE DECOR SET GRAPHICS SHEET	
N/A	SERVICE AREA / DINING TRIM	SCHLUTER – QUADEC – SATIN ANODIZED ALUMINUM	
N/A	WALLCOVERING TRIM	1/2" X 1/2" ANGLE TRIM, SATIN ANODIZED ALUMINUM – LOCAL VENDOR	
N/A	WINDOW SILLS AND CASEMENT	DUPONT – CORIAN "DEEP CLOUD"	
N/A	MAIN CEILING TILE	ACOUSTICAL SURFACES – 5/8" NATURAL WOOD WOOL, 24"X48"	
N/A	MAIN CEILING GRID	USG – DX/DXL 15/16" EXPOSED TEE, PAINTED BENJAMIN MOORE 1039 STONE HOUSE	PAINT VENT TO MATCH GRID
N/A	CORRUGATED ACOUSTICAL CEILING	ACOUSTICAL SURFACES – SUPERWAVE MOLDED POLY MAX ACOUSTICAL PANELS, BROWN, 24"X48"	
SEE PLAN	PENDANT LIGHTING	SECURITY LIGHTING, SINGLE GOLD PENDANT SUSPENDED LED	SEE ELECTRICAL
SEE PLAN	PENDANT LIGHTING	SECURITY LIGHTING, FRY PENDANT GROUPING, YELLOW METAL PENDANT	SEE ELECTRICAL

GENERAL FINISH NOTES:

1. REFERENCE: McDONALD'S PROJECT MANUAL – SECTION 093000

2. KITCHEN FLOOR TILE:
   TILE: CROSSVILLE 6"x6" 'METROPOLITAN QUARRY BASICS ABRASIVE'
   GROUT: CHARCOAL #47 BY MAPEI
   KERAPOXY IEG BLACK #10 BY MAPEI (FOR OPTIONAL GREY TILE)
   COLOR: PURITAN GRAY EXTRA ABRASIVE 57XA (STANDARD)

3. DINING ROOM FLOOR TILE:
   TILE: CROSSVILLE 24"x24" 'MOONLIGHT GREY'
   GROUT: MAPEI ULTRACOLOR GRAY 09 – JOINT 1/8" MAX.

4. RESTROOM TILE:
   MAIN WALL TILE: ICG ITALIA – ARCHITECT 12"x24" 'FACTORY'
   ACCENT WALL TILE: ICG ITALIA – SHELTER 4"x12" 'BIANCO MATTE'
   RESTROOM SINK & HAND DRYER PANEL: CORIAN – CAMEO WHITE
   FLOOR TILE: ICG ITALIA – NEW GROUND 12"x24" 'ANTHRACITE'
   GROUT: MAPEI ULTRACOLOR CHARCOAL 47 – JOINT 1/8" MAX

5. TILE TRANSITION AND EDGE PROTECTION:
   A) TILE BASE (RESTROOM ONLY): SCHLUTER DILEX-AHK SERIES, BRUSHED STAINLESS STEEL.
   B) TILE EDGE PROTECTION (WALL TRANSITION): SCHLUTER-RONDEC-DB, SATIN ANODIZED ALUMINUM.
   C) TILE CORNER PROTECTION (OUTSIDE CORNER): SCHLUTER-RONDEC-AE, SATIN ANODIZED ALUMINUM.

   BEFORE FINAL INSPECTION, REMOVE PROTECTIVE COVERINGS AND PERFORM FINAL CLEANING.

6. TILE CLEANER: DETERDEK, BY FILA SURFACE CARE PRODUCTS – NO SUBSTITUTIONS ALLOWED
   CAN BE ORDERED BY ICG ITALIA, CROSSVILLE, OR DIRECT FROM MANUFACTURER: FILA/DETEREK
   POST INSTALLATION CLEANING REQUIRED ON ALL FLOOR TILE INSTALLTIONS PRIOR TO RESTAURANT TURN OVER.

   APPLY CLEANER PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
   REFERENCE: McDONDALD'S PROJECT MANUAL – SECTION 09300 TILING INTERIOR.

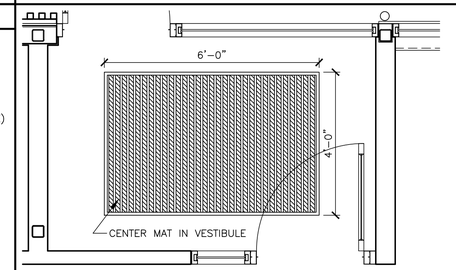
7. GROUT COLOR AND MANUFACTURER AS INDICATED ON SHEET A1.1 AND INTERIOR DECOR DRAWINGS.

GENERAL FINISH NOTES:

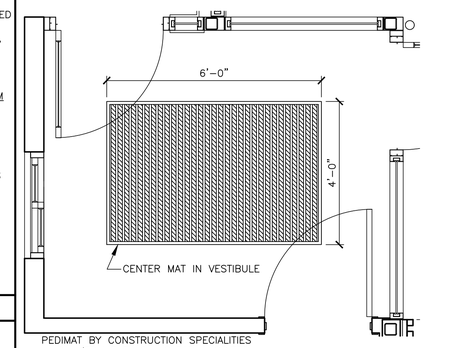
1. ALL FINISH SURFACES OF WALL AND CEILING MATERIALS SHALL BE CLASS B AND SHALL HAVE A FLAME SPREAD RATING OF 26 TO 75 AND A SMOKE DENSITY OF 450 MAX. (PER IBC TABLE 803.9).
2. DECORATIVE MATERIALS SHALL BE FLAME RETARDANT AND MEET THE CRITERIA OF NFPA 701.
3. DECORATIVE MATERIAL SHALL NOT CONCEAL EXITS, EXIT LIGHTS, ALARM STATIONS, HOSE CABINETS, AND EXTINGUISHER LOCATIONS
4. WHEN BUILDING TYPE IS A NON-COMBUSTIBLE CATEGORY, ALL PLYWOOD SHALL BE FIRE RETARDANT TREATED.
5. A. FRP OVER CEMENT BD BEHIND 3-COMP SINK TO HGT OF BACK SPLASH ⚠1
   B. TILE WAINSCOT TO 6' A.F.F. OVER CEMENT BD. OVER EXT GRADE PLYWOOD (NOTE 4) AT MOP SINKS.
6. PROVIDE CEMENT BOARD BACKER OR EQUIVALENT AT ALL TILE LOCATIONS.
7. PROVIDE VAPOR BARRIER BEHIND PLYWOOD AT WALLS AND BEHIND GYP. AT CEILING
8. CREW ROOM FINISHES:
   NORTH WALL: MOMENTUM WALL GRAPHIC – VIS703.
   EAST/WEST/SOUTH WALLS: TILE WAINSCOT TO 3' A.F.F. – ICG ITALIA ARCHITECT FACTORY 12"x24". TILE COVE BASE – ICG ITALIA ARCHITECT FACTORY 6"x12". VISTA WOOD WALL COVERING – MOMENTUM NA-5C-MC600 – VISTA WOODGRAIN.

   *TILE OPTION FOR HEALTH CODE: WAINSCOT – ICG ITALIA MA.DE UNI GRIGIO 12"x24". TILE COVE BASE – ICG ITALIA UNI GRIGIO 6"x12".
9. ALL DECOR ELEMENTS MANUFACTURED BY DECOR TO BE PURCHASED AND INSTALLED BY GC, UNO.

* SEE CEILING PLAN FOR HEIGHTS & LAYOUTS
** VWC ON EXTERIOR WALL ASSEMBLIES TO BE PERFORATED



NON-DRIVE THRU – PEDI MAT

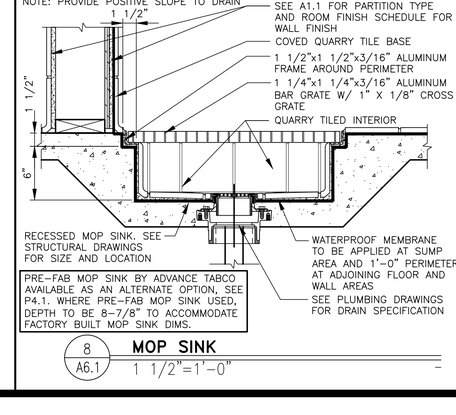


PEDIMAT BY CONSTRUCTION SPECIALITIES
– RAIL/FRAME FINISH: CLEAR ANODIZED
– CARPET INSERT: #7325 WROUGHT IRON
CONTACT: NATIONAL ACCOUNTS DIVISION
PHONE: (888) 424-6287
FAX: (908) 849-4295
NATIONALACCOUNTS@C-SGROUP.COM

OPTIONAL: VERIFY WITH MCDONALD'S CONSTRUCTION MANAGER

DRIVE THRU – PEDI MAT

7 A6.1 **PEDIMAT (OPTIONAL)**
1/2" =1'-0"



8 A6.1 **MOP SINK**
1 1/2"=1'-0"

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

STATE OF MISSOURI
JERAM ALLEN WILLIAMS
NUMBER A-2010039004
ARCHITECT

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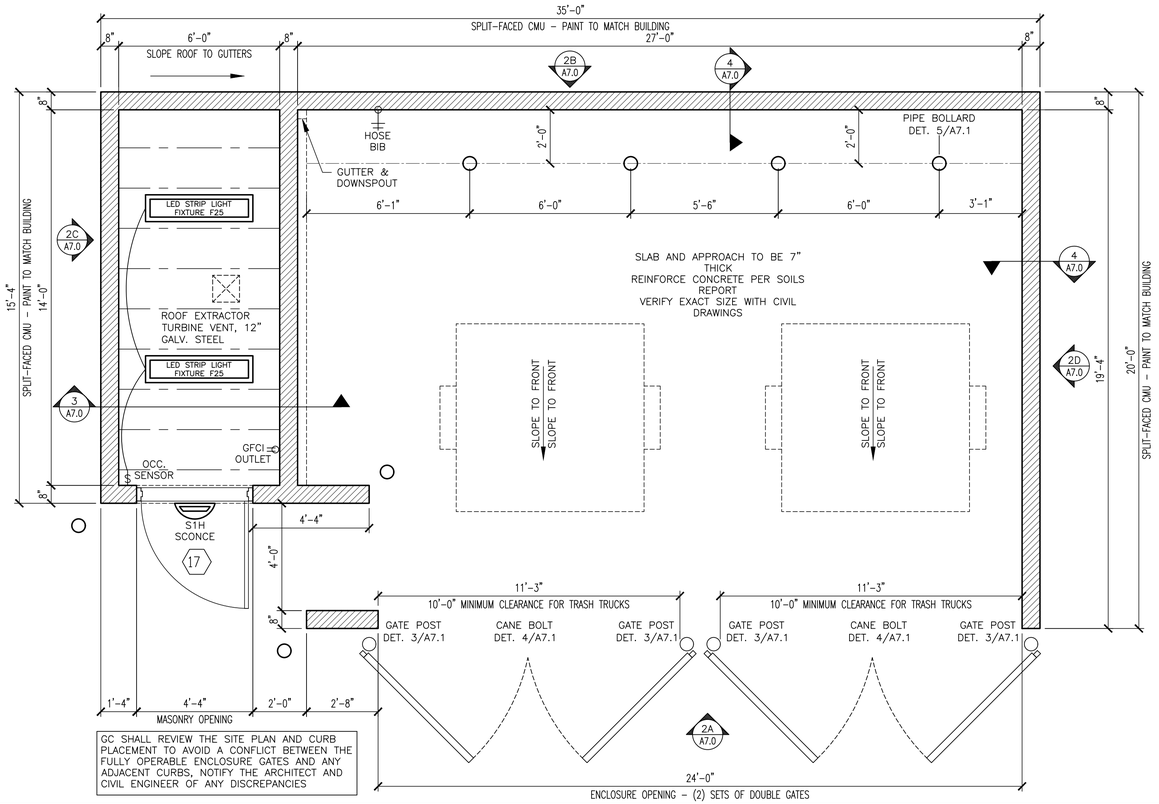
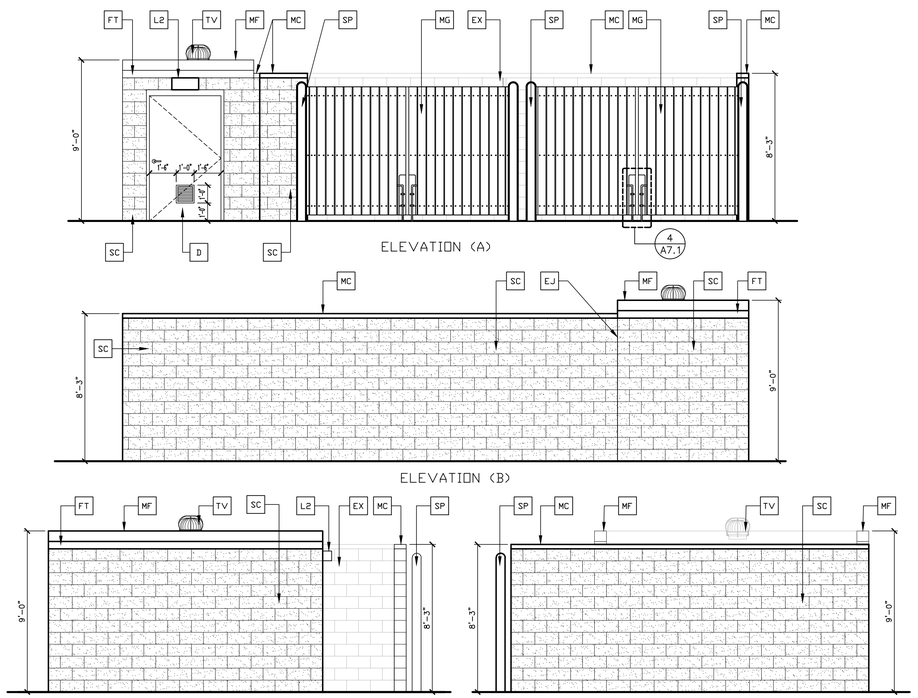
PREPARED FOR: McDonald's USA, LLC
PREPARED BY: JAW Architects, Inc. Jeramy Williams, Architect
DRAWN BY: JAW
STD ISSUE DATE: 2026
REVIEWED BY: JAW
DATE ISSUED: 04/15/2026
TITLE: 2026 STANDARD BUILDING – BB20 4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS WOOD ROOF TRUSS FRAMING
SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
SITE ID: 024-1329
SHEET NO.: JAWA 26-0041 **A6.1** FINISH SCHEDULES

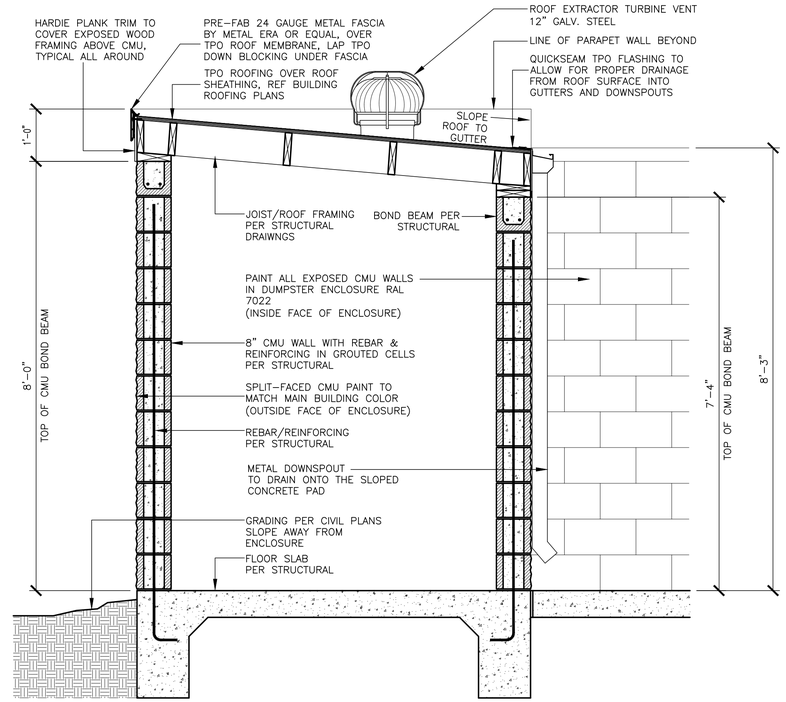


GC SHALL REVIEW THE SITE PLAN AND CURB PLACEMENT TO AVOID A CONFLICT BETWEEN THE FULLY OPERABLE ENCLOSURE GATES AND ANY ADJACENT CURBS, NOTIFY THE ARCHITECT AND CIVIL ENGINEER OF ANY DISCREPANCIES

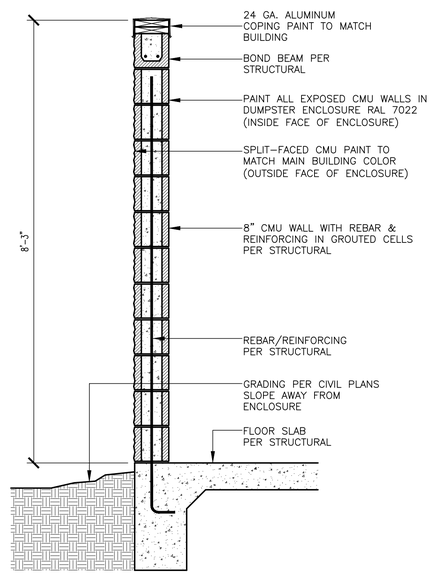
1 **STORAGE BUILDING PLAN** SCALE 3/8"=1'-0"



2 **DUMPSTER ENCLOSURE PLAN** SCALE 1/4"=1'-0"



3 **WALL SECTION DETAIL** SCALE 3/4"=1'-0"



4 **WALL SECTION DETAIL** SCALE 3/4"=1'-0"

KEY NOTES:

- D — HOLLOW METAL DOOR PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS
- EJ — TYPICAL CMU EXPANSION JOINT WITH BACKER ROD AND SEALANT
- EX — GC TO PAINT EXPOSED CMU BLOCK RAL 7022 (INSIDE FACE OF ENCLOSURE)
- FT — FIBER CEMENT FASCIA BOARD: PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS
- GD — METAL GUTTERS AND DOWNSPOUT DRAIN ONTO DUMPSTER ENCLOSURE SLAB (PAINT RAL 7022)
- L2 — RADIAL SCONCE LIGHT FIXTURE – SEE ELECTRICAL COLOR: PLATINUM SILVER
- MC — 24 GAUGE ALUMINUM COPING OVER CMU ENCLOSURE WALLS COLOR TO MATCH RAL 7022
- MF — METAL FASCIA – PRE-FAB ANCHOR-TITE FASCIA COLOR TO MATCH RAL 7022
- MG — DUMPSTER ENCLOSURE ENTRY GATES WITH 1X6 TREX CLADDING BOARDS, COLOR: BISCAYNE
- SC — SPLIT-FACED CMU PAINT TO MATCH "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS (OUTSIDE FACE OF ENCLOSURE)
- SP — STEEL CONCRETE FILLED POST PAINT TO MATCH RAL 7022
- TV — ROOF EXTRACTOR TURBINE VENT 12" GALV. STEEL

GENERAL NOTES:

GENERAL CONTRACTOR TO PROVIDE 6 INCHES OF EXPOSED GRADE BREAMS AROUND THE STORAGE BUILDING WITH THE EXCEPTION OF THE DOOR LOCATION, COORDINATE WITH THE CIVIL GRADING PLANS.

GENERAL CONTRACTOR TO MECHANICALLY FASTEN ALL TREX CLADDING TO THE METAL FRAME PER MANUFACTURER'S INSTRUCTIONS

PROVIDE A 12"X12' LOUVER VENT IN HOLLOW METAL DOOR, SEE ELEVATIONS.

ELECTRICAL NOTES:

OCCUPANCY SENSOR: GC TO PROVIDE A WALL MOUNTED OCCUPANCY SENSOR, REF ELECTRICAL PLANS FOR MORE INFORMATION.

GC TO INSTALL NEW STRIP LIGHT FIXTURE, PER MANF.'S RECOMMENDATIONS. F25 – 42W LED BY COLUMBIA LIGHTING #LCL4-40ML-EDU.

GC TO PROVIDE A 20A, 120V, RECEPTACLE WITHIN 25 FEET OF THE HVAC EQUIPMENT, PER CODE.

ALL LIGHTING/POWER SHALL BE CONNECTED TO AN APPROPRIATE CIRCUIT IN THE MAIN BUILDING PANELS, VERIFY CIRCUITING PRIOR TO ROUGH-IN.

REV	DATE	DESCRIPTION	BY

JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817.703.3387
Email: jeremy@jaw-work.com

PREPARED BY:

PREPARED FOR: McDonald's USA, LLC

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JAW	2026

REVIEWED BY	DATE ISSUED
JAW	04/15/2026

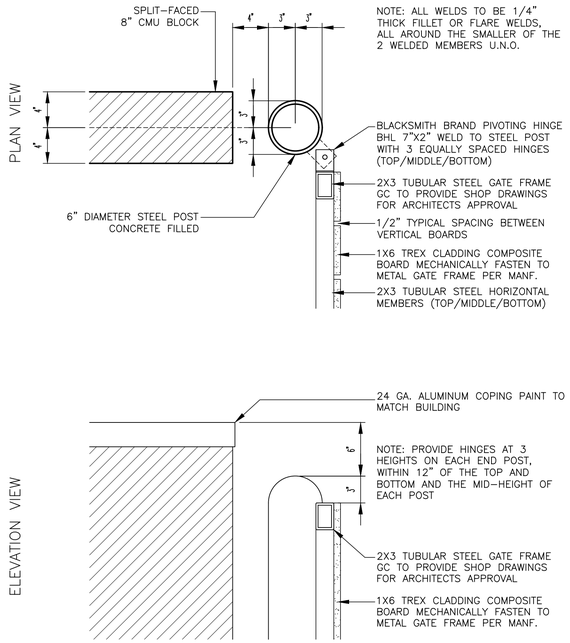
TITLE: 2026 STANDARD BUILDING – BB20
4590-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

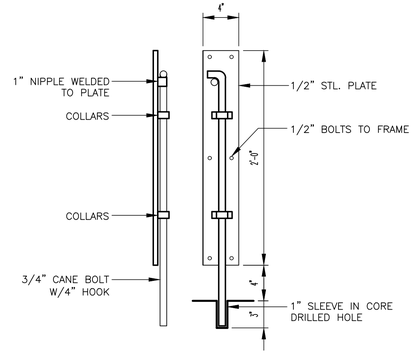
SITE ID: 024-1329

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO. JAWA 26-0041
A7.0
DUMP. ENCLOSURE



3 **GATE POST DETAIL** SCALE 1-1/2"=1'-0"



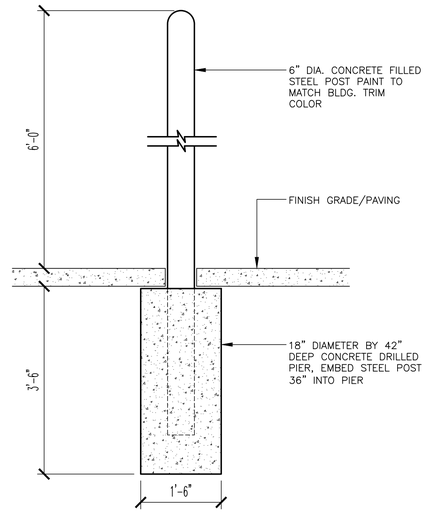
NOTES:

1. G.C. TO CUT 1" DIA. – SCHEDULE 40 GALVANIZED STEEL PIPE INTO 3" LONG SECTIONS TO MAKE 1" DIA. x 3" CANE BOLT "SLEEVE" PART #: mp-00002505
2. G.C. CORE DRILL 1.5" DIAMETER HOLD INTO CONCRETE (MIN. 3" TO 3-1/4" DEEP)
3. USE CONCRETE ADHESIVE ANCHOR TO SET "SLEEVE"
4. WIPE/CLEAN AREA AFTER INSTALLATION

G.C. TO PROVIDE TWO CANE BOLT SLEEVES PER EACH GATE

1. CLOSED POSITION: 0 DEGREES
2. OPEN POSITION: 90° MIN. – 120° MAX FROM CLOSED POSITION.

4 **CANE BOLT DETAIL** SCALE 1-1/2"=1'-0"



5 **PIPE BOLLARD DETAIL** SCALE 3/4"=1'-0"

REV	DATE	DESCRIPTION	BY

PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect

PREPARED FOR:
McDonald's USA, LLC

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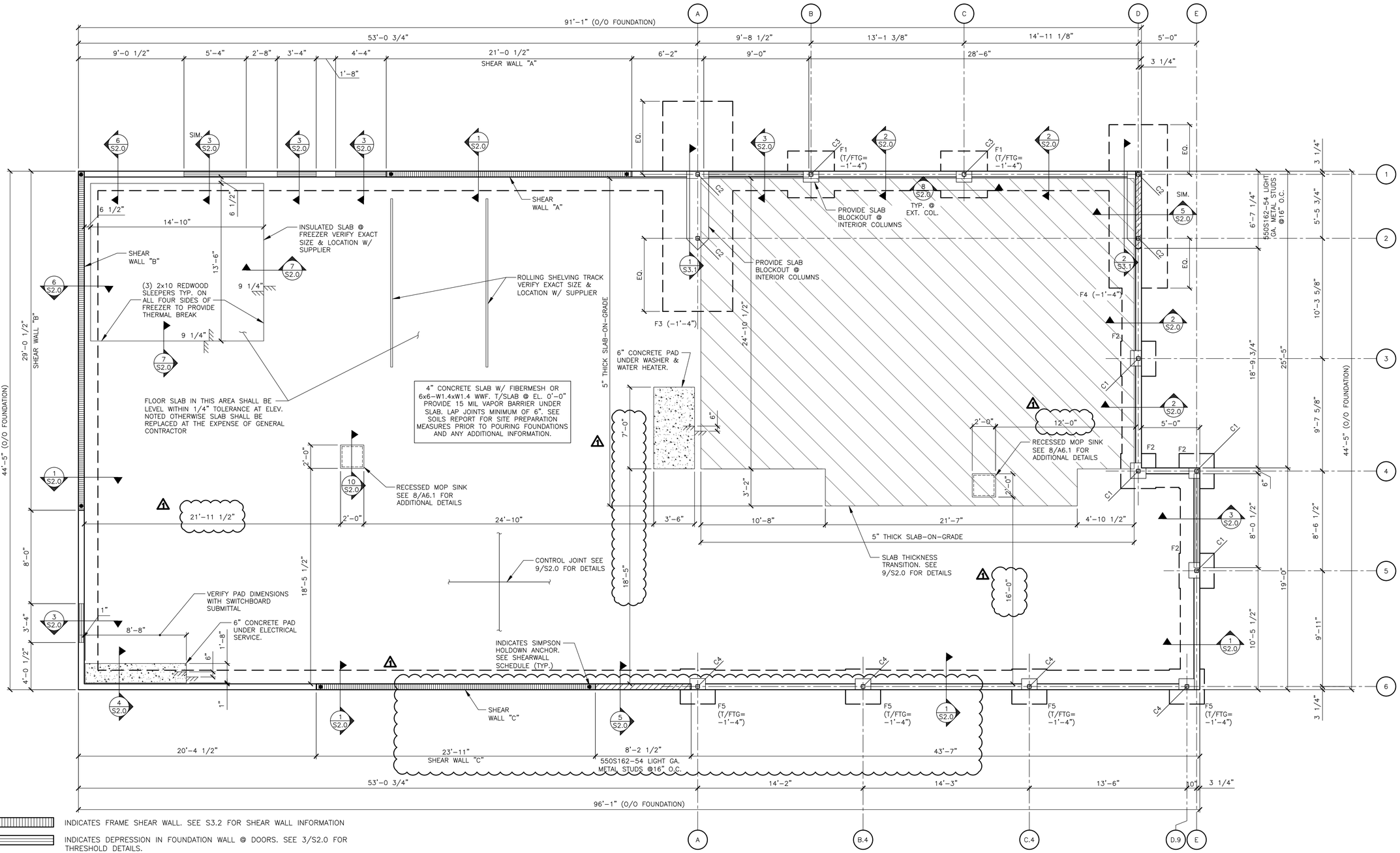
TITLE
2026 STANDARD BUILDING – BB20
4590-WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID
024-1329

SITE ADDRESS
SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO.
JAWA 26-0041
A7.1
DUMP. ENCLOSURE



INDICATES FRAME SHEAR WALL. SEE S3.2 FOR SHEAR WALL INFORMATION

INDICATES DEPRESSION IN FOUNDATION WALL @ DOORS. SEE 3/S2.0 FOR THRESHOLD DETAILS.

INDICATES METAL STUD FRAME WALL. SEE 5/S2.0 FOR DETAILS.

1 S1.0 FOUNDATION PLAN

1/4"=1'-0"

INDICATES 5" CONCRETE SLAB W/ FIBERMESH OR 6x6-W1.4xW1.4 WWF. PROVIDE 4" CONCRETE SLAB W/ FIBERMESH OR 6x6-W1.4xW1.4 WWF OUTSIDE OF INDICATED HATCHED AREA. SEE 9/S2.0 FOR ADDITIONAL SLAB INFORMATION.

THIS DESIGN IS BASED ON ASSUMED SOIL PROPERTIES, INCLUDING ALLOWABLE BEARING PRESSURE = 1500 PSF. THIS SHALL BE FIELD VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOOTINGS

NOTES:
1. BOT OF FOOTING @ EL. (-2'-8") MIN UNLESS NOTED OTHERWISE.
2. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
3. PROVIDE POSITIVE DRAINAGE TO ALL FLOOR DRAINS/SINKS (MIN 6") BEYOND DRAIN) SEE PLUMBING DRAWINGS FOR EXACT LOCATIONS
4. SEE SHEET S2.0 FOR TYPICAL CORNER BAR DETAILS.
5. MINIMUM REQUIREMENTS FOR SILL PLATE CONNECTION TO FOUNDATION:
   MINIMUM # OF BOLTS = 2 PER PIECE OF SILL
   MAXIMUM DISTANCE FROM END OF SILL TO ANCHOR = 12"
   MINIMUM DISTANCE FROM END OF SILL TO ANCHOR = 4"
6. WHERE SILL PLATES ARE NOT CONTINUOUS AT ALL LOCATIONS EXCEPT SHEAR WALLS, USE SIMPSON "RPS22Z" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS28Z" FOR NOTCH < 12", W/ 16d NAILS INTO SILL PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
7. WHERE SILL PLATES ARE NOT CONTINUOUS AT SHEAR WALLS, CONTACT ENGINEER OF RECORD FOR RESPONSE.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	TOP OF FTG
F1	4'-0"x4'-0"x1'-4"	5-#5 E.W.-B.	-1'-4"
F2	3'-0"x3'-0"x2'-0"	4-#5 E.W.-B.	-0'-8"
F3	6'-0"x18'-0"x3'-0"	14-#7 L.W.-T&B #6 @ 12" O.C. S.W.-T&B	SEE PLAN
F4	5'-0"x14'-0"x3'-0"	11-#7 L.W.-T&B #6 @ 12" O.C. S.W.-T&B	SEE PLAN
F5	3'-0"x3'-0"x1'-4"	4-#5 E.W.-B.	-1'-4"

COLUMN & BASE PLATE SCHEDULE

MARK	MEMBER	SHAPE	BASE PLATE	REMARKS
C1	HSS4x4x1/4	⊞	A	EXTEND TO ROOF
C2	HSS4x4x5/16	⊞	B	BRACED FRAME
C3	HSS4x4x5/16	⊞	A	EXTEND TO ROOF
C4	HSS4x4x1/4	⊞	A	EXTEND TO ROOF

NOTE: SEE DETAIL 3/S3.1 FOR BASE PLATE AND ANCHOR ROD DETAILS

BY	DESCRIPTION	DATE	REV
	PROTOTYPE UPDATES	07/22/2026	1

ASHIF PANAKKAT, P.E.
4103 N SOUTHPORT AVE,
CHICAGO, IL 60613

(312) 602 5411

STATE OF MISSOURI * ASHIF PANAKKAT * PE-2009034386 * PROFESSIONAL ENGINEER

Signed/Sealed:
07/21/2026

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DRAWN BY	MKP
STD. ISSUE DATE	2026
REVIEWED BY	AP
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD

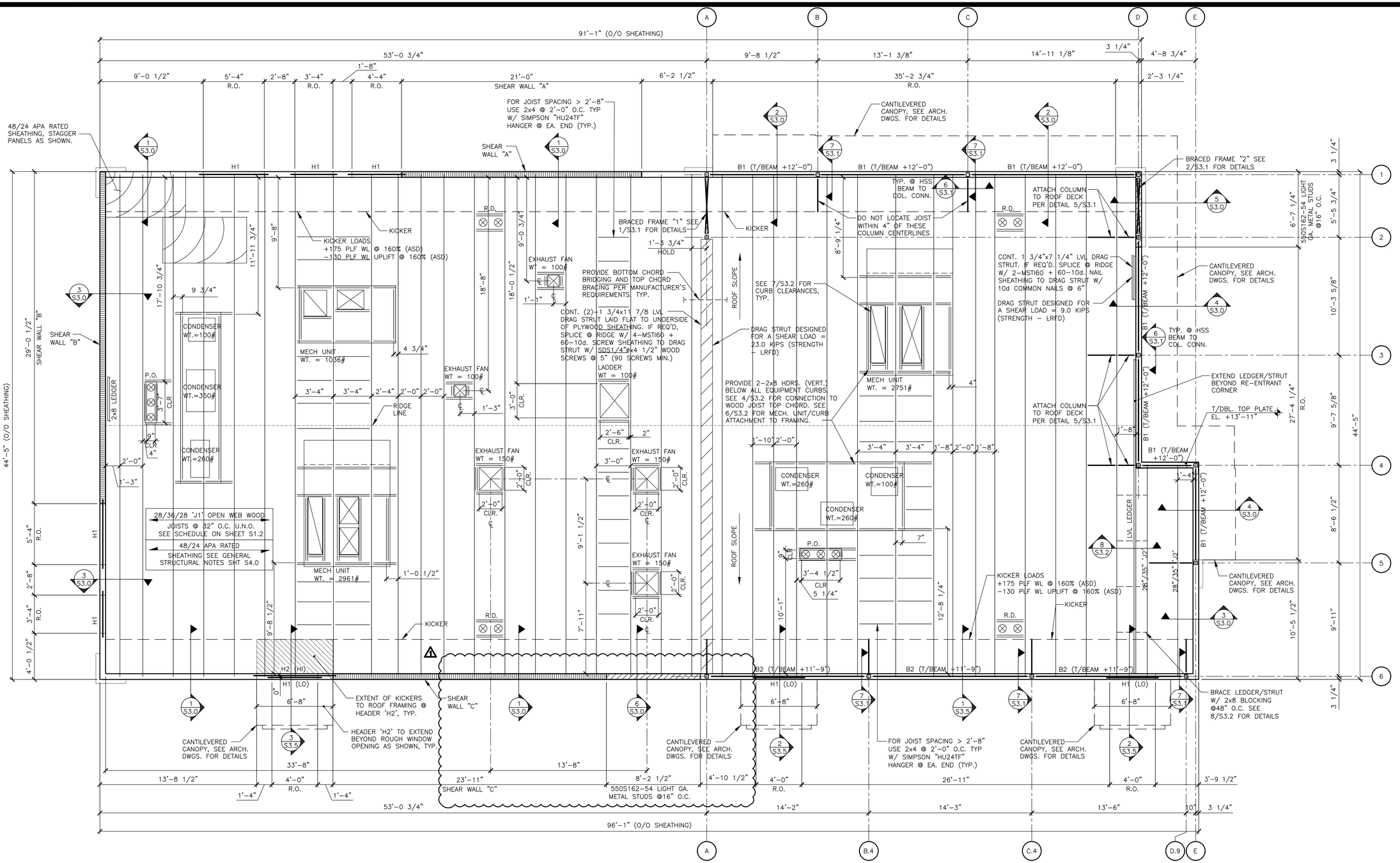
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SITE ID: 024-1329

SHEET NO.: S1.0
FOUNDATION PLAN

IAWA-26-0041



INDICATES FRAME SHEAR WALL. SEE S3.2 FOR SHEAR WALL INFORMATION

INDICATES METAL STUD FRAME WALL. SEE 6/S3.0 FOR DETAILS.

1/S1.2 **FRAMING PLAN**

1/4"=1'-0"

INDICATES RTU SUPPLY/RETURN ROOF DECK PENETRATIONS. G.C. TO PROVIDE (2)-2x8 HDRS. AT PERIMETER OF ALL PENETRATIONS/OPENINGS PER DETAIL 4/S3.2 AND COORDINATE EXTENT WITH MANUFACTURER SPECIFICATIONS.

NOTES:
1. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
2. R.D.: ROOF DRAINS
3. P.O.: ROOF CURB PORTAL OPENING - COORDINATE WITH MECHANICAL DRAWINGS.
4. WHEN TOP PLATES ARE NOT CONTINUOUS, USE SIMPSON "RPS22" TIE FOR NOTCH < 5 1/2", USE SIMPSON "RPS28" TIES FOR NOTCH < 12", W/ 16d NAILS INTO TOP PLATE ENDS. (MAX. SPACING BETWEEN STUDS = 16" O.C.)
5. TOP PLATE SPLICE SHALL BE MINIMUM LENGTH OF 48" WITH 2 ROWS (2 1/2" APART) OF 22-16d COMMON NAILS SPACED @ 2" ON CENTER (44 TOTAL).
6. SEE 5/S3.2 FOR SNOW DRIFT DIAGRAM.

NOTE TO CONTRACTOR:
ANY SPRINKLER LINES GREATER THAN 3" DIAMETER SHALL BE VERIFIED BY THE SPRINKLER CONTRACTOR PRIOR TO TRUSS FABRICATION.

BEAM SCHEDULE

MARK	MEMBER	SHAPE	SUPPORT	REMARKS
B1	HSS16x4x1/4 LLV	[]	1/2" END PLATE	SEE DETAIL 6/S3.1
B2	HSS12x4x1/4 (LLV)	[]	1/2" END PLATE	SEE DETAIL 8/S3.1

HEADER SCHEDULE

MARK	MEMBER	SHAPE	BEARING
H1	5 1/4"x9 1/2" LVL	⊠	SEE DETAIL 2/S3.2
H2	5 1/4"x16" LVL	⊠	SEE DETAIL 3/S3.5 & 2/S3.2

JOIST SCHEDULE

MARK	LIVE/ROOF SNOW LOAD	DEPTH	MANUFACTURER & SERIES
J1	20/10.5	28"/36"/28"	REDBUILT "RED-S"
J2	20/10.5	28"/35"	REDBUILT "RED-S"

NOTE: SEE DETAIL 4/S3.2 FOR JOIST DETAILS AND SUPPLIER INFORMATION

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

ASHIF PANAKKAT, P.E.
4103 N SOUTHPORT AVE,
CHICAGO, IL 60613
(312) 602 5411

STATE OF MISSOURI * ASHIF PANAKKAT * PE-2009034386 * PROFESSIONAL ENGINEER

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07/21/2026

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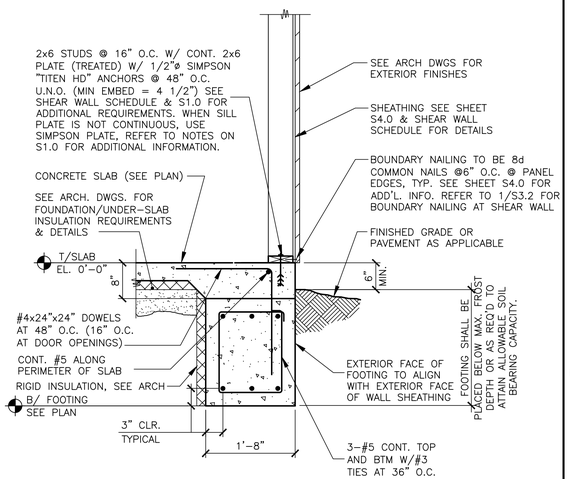
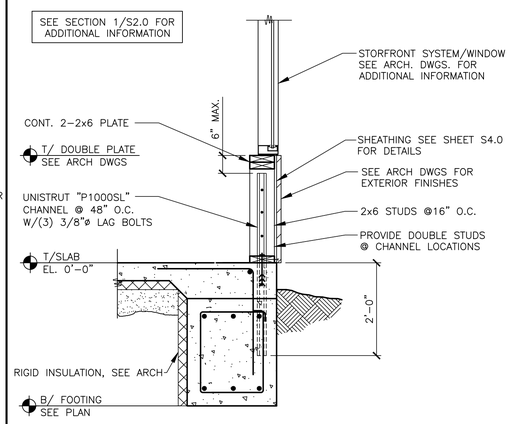
SITE ID: 024-1329

JAWA 26-0041

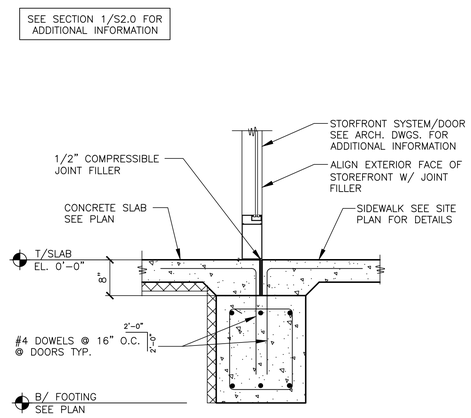
SHEET NO. S1.2
ROOF FRAMING PLAN



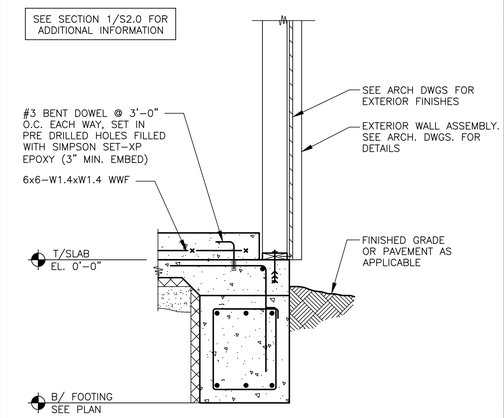
1 S2.0 **SECTION**
3/4" = 1'-0"



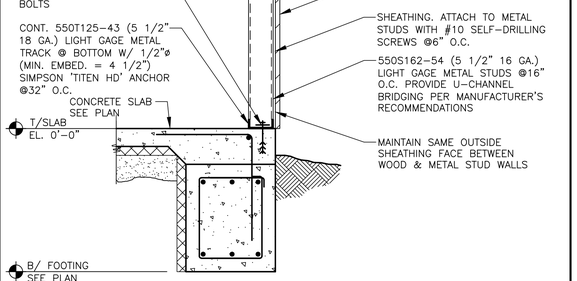
2 S2.0 **SECTION**
3/4" = 1'-0"



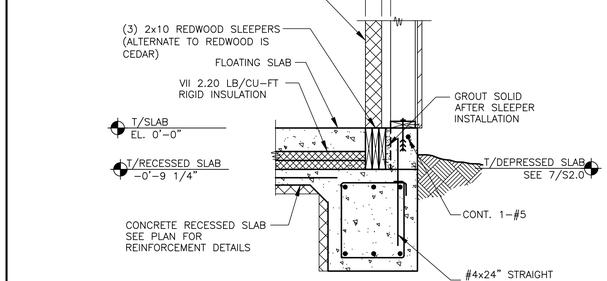
3 S2.0 **SECTION**
3/4" = 1'-0"



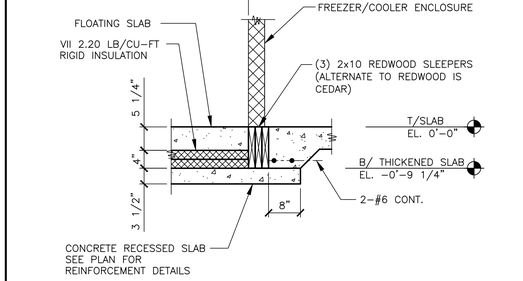
4 S2.0 **SECTION**
3/4" = 1'-0"



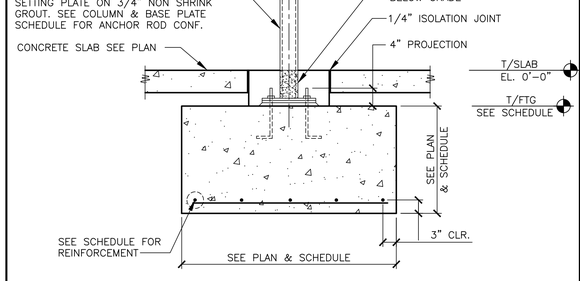
5 S2.0 **SECTION**
3/4" = 1'-0"



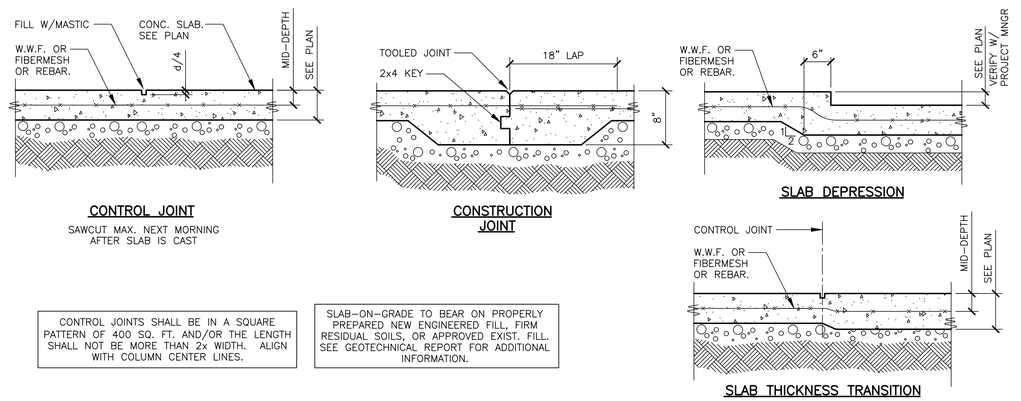
6 S2.0 **SECTION**
3/4" = 1'-0"



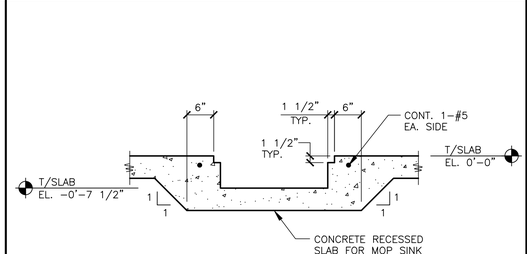
7 S2.0 **SECTION**
3/4" = 1'-0"



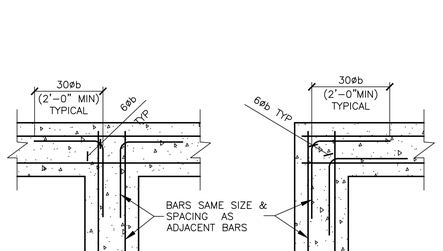
8 S2.0 **ISOLATED COLUMN FOOTING DETAIL**
3/4" = 1'-0"



9 S2.0 **SLAB ON GRADE DETAILS**
N.T.S.



10 S2.0 **RECESSED SLAB DETAIL**
3/4" = 1'-0"



11 S2.0 **CORNER BAR DETAILS**
N.T.S.

ASHIF PANAKKAT, P.E.
4103 N SOUTHPORT AVE,
CHICAGO, IL 60613
(312) 602 5411

STATE OF MISSOURI * ASHIF PANAKKAT * PE-2009034386 * PROFESSIONAL ENGINEER

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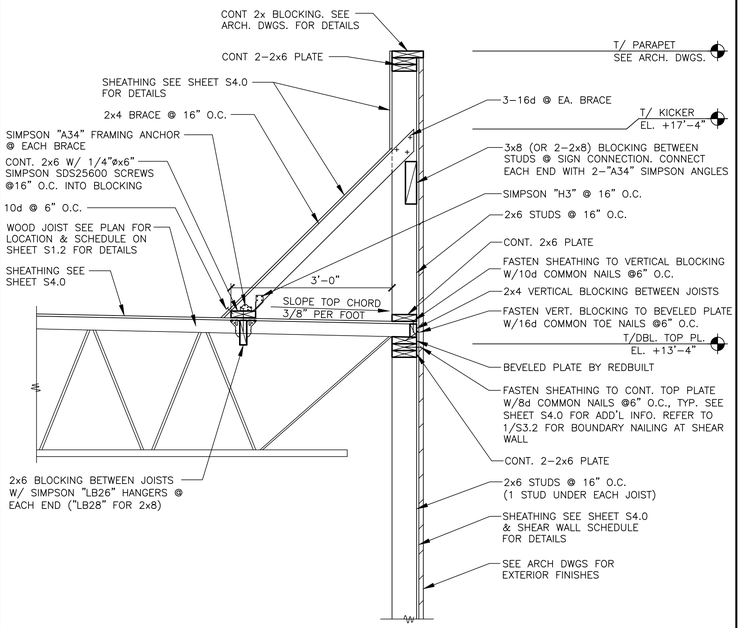
SITE ID: 024-1329

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

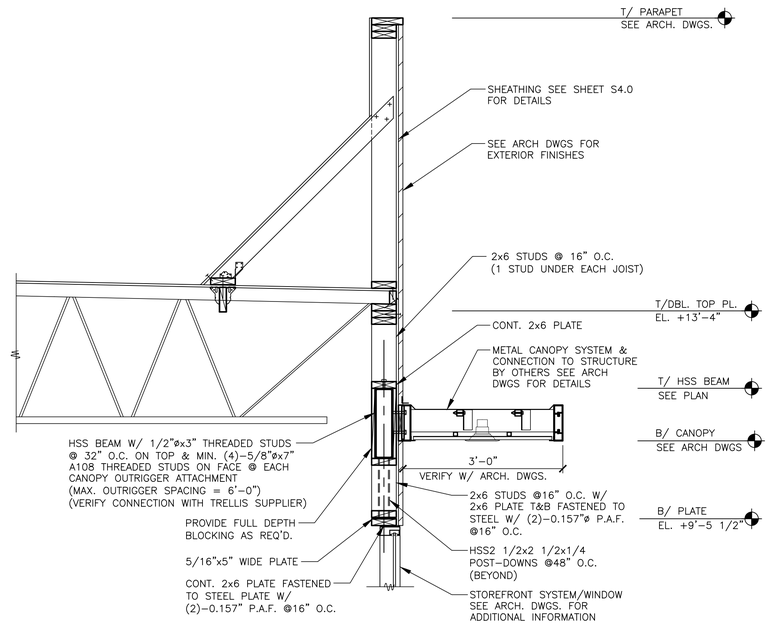
JAWA 26-0041

SHEET NO. **S2.0**
FOUNDATION SECTIONS

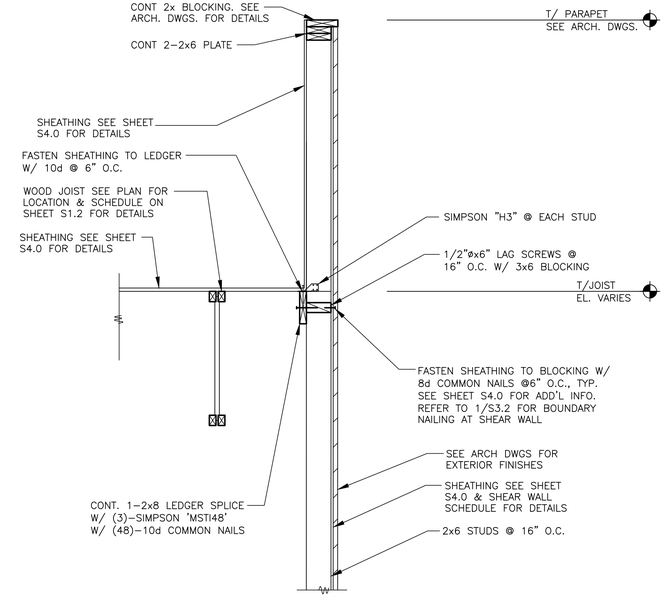


1 S3.0 **SECTION**
3/4" = 1'-0"

SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION

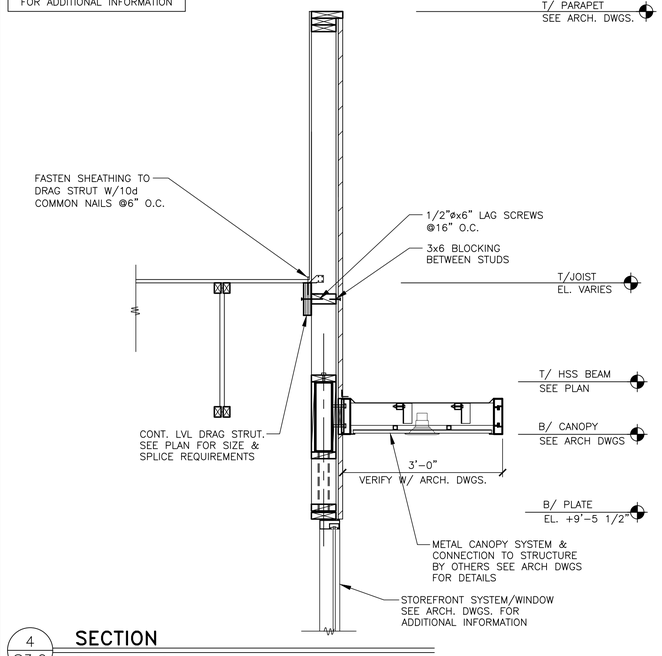


2 S3.0 **SECTION**
3/4" = 1'-0"



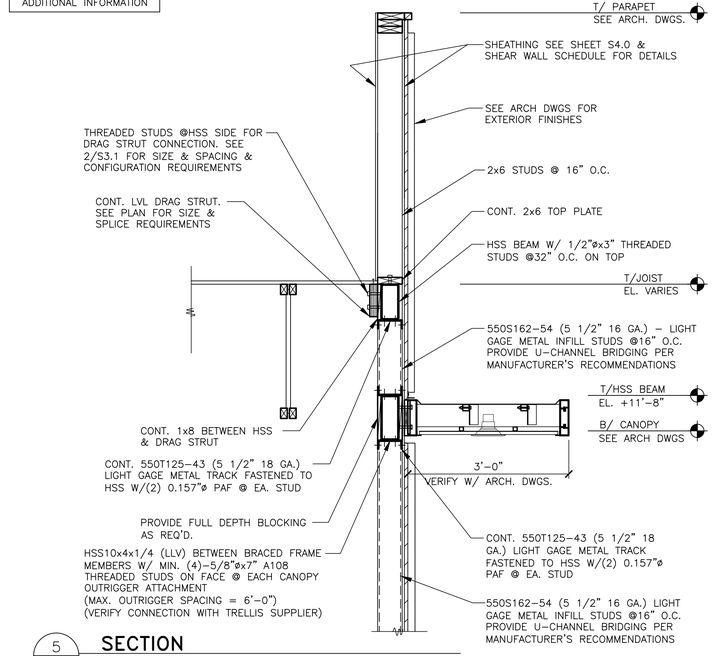
3 S3.0 **SECTION**
3/4" = 1'-0"

SEE SECTION 2/S3.0 & 3/S3.0 FOR ADDITIONAL INFORMATION



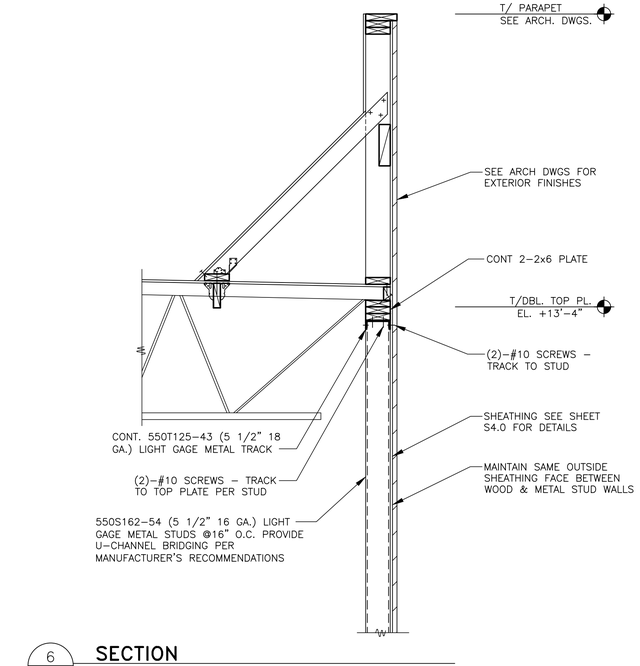
4 S3.0 **SECTION**
3/4" = 1'-0"

SEE SECTION 4/S3.0 FOR ADDITIONAL INFORMATION



5 S3.0 **SECTION**
3/4" = 1'-0"

SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION



6 S3.0 **SECTION**
3/4" = 1'-0"

BY	DESCRIPTION	DATE	REV
			1

ASHIF PANAKKAT, P.E.
4103 N SOUTHPORT AVE,
CHICAGO, IL 60613
(312) 602 5411

STATE OF MISSOURI * ASHIF PANAKKAT * PE-2009034386 * PROFESSIONAL ENGINEER

Signed/Sealed:
04/15/2026

McDonald's USA, LLC

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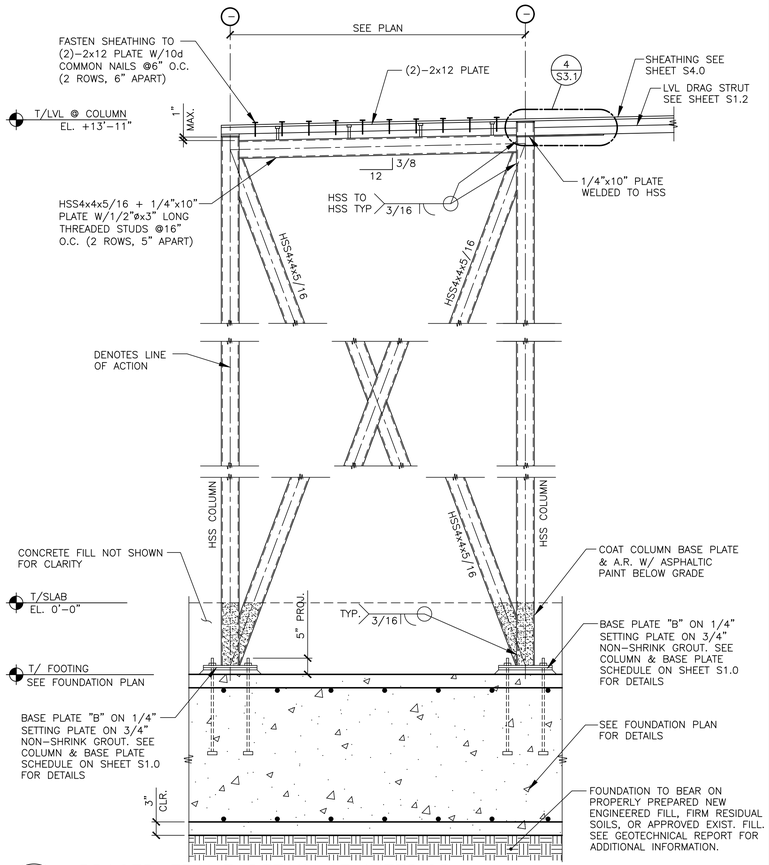
DRAWN BY	MKP
STD ISSUE DATE	2026
REVIEWED BY	AP
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

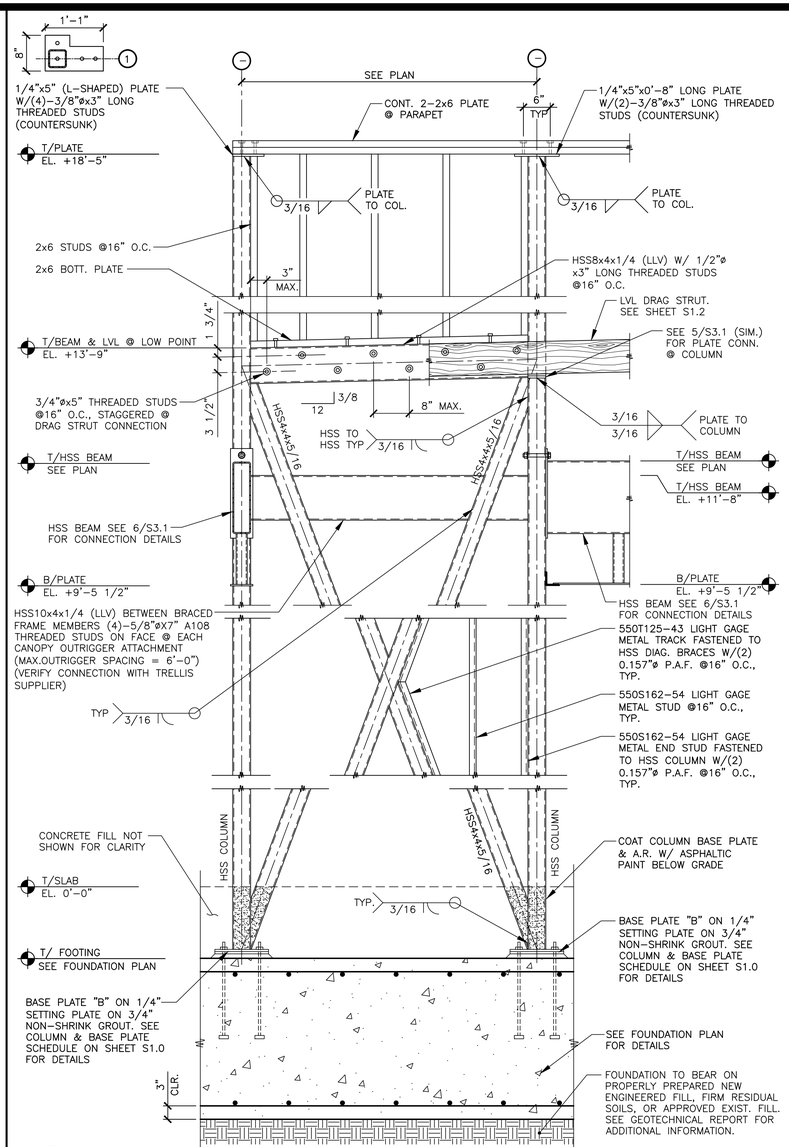
SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SITE ID: 024-1329

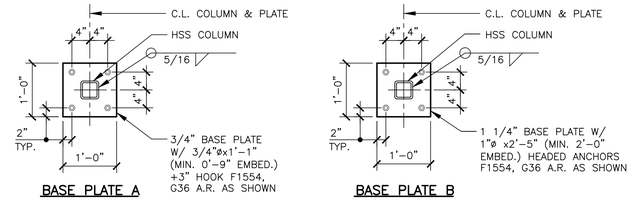
SHEET NO. S3.0
JAWA 26-0041
FRAMING SECTIONS



1 S3.1 **BRACED FRAME DETAIL AT INTERIOR**
3/4" = 1'–0"



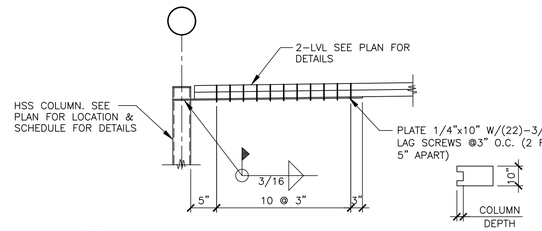
2 S3.1 **BRACED FRAME DETAIL AT EXTERIOR**
3/4" = 1'–0"



BASE PLATE A

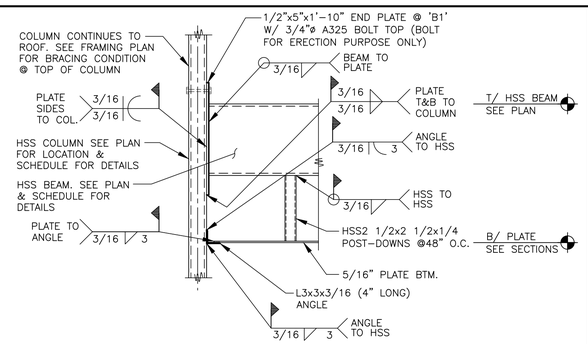
BASE PLATE B

3 S3.1 **BASE PLATE DETAILS**
N.T.S.

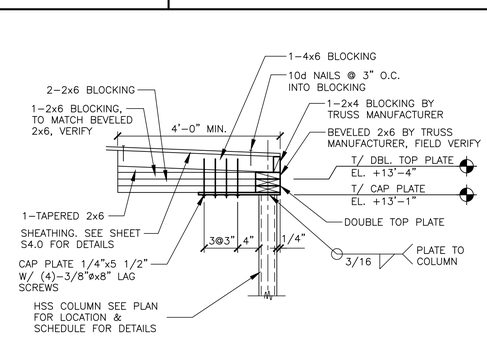


4 S3.1 **DRAG STRUT CONNECTION DETAIL**
3/4" = 1'–0"

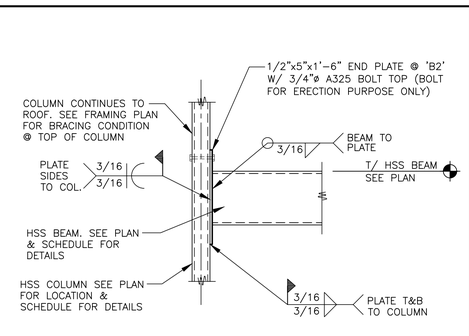
5 S3.1 **COLUMN BRACING DETAIL**
3/4" = 1'–0"



6 S3.1 **HSS BEAM CONNECTION DETAIL**
3/4" = 1'–0"



7 S3.1 **COLUMN BRACING DETAIL**
3/4" = 1'–0"



8 S3.1 **HSS BEAM CONNECTION DETAIL**
3/4" = 1'–0"

9 S3.1 **NOT USED**
3/4" = 1'–0"

NO.	DESCRIPTION	DATE	BY
REV			

ASHIF PANAKKAT, P.E.
4103 N SOUTHPORT AVE,
CHICAGO, IL 60613
(312) 602 5411

STATE OF MISSOURI * ASHIF PANAKKAT * PE-2009034386 * PROFESSIONAL ENGINEER

Signed/Sealed: 04/15/2026

McDonald's USA, LLC

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DRAWN BY	MKP
STD ISSUE DATE	2026
REVIEWED BY	AP
DATE ISSUED	04/15/2026

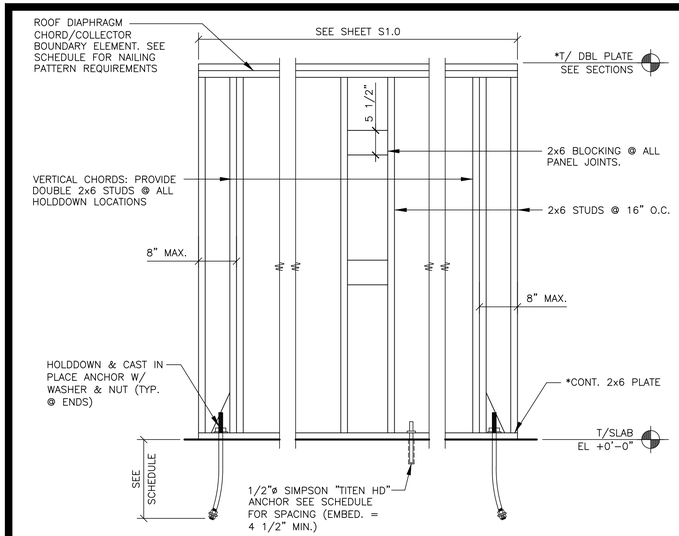
TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024–1329

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD, WILLARD, MO 65781

SHEET NO. JAWA 26–0041
S3.1
STEEL DETAILS



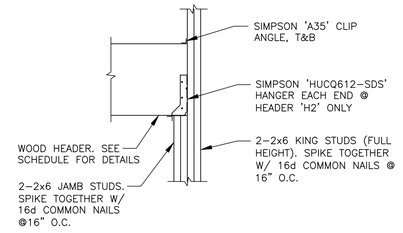
SHEAR WALL SCHEDULE

WIND: 108 MPH (EXPOSURE C) SEISMIC: Sds = 18.8%, Sd1 =16%

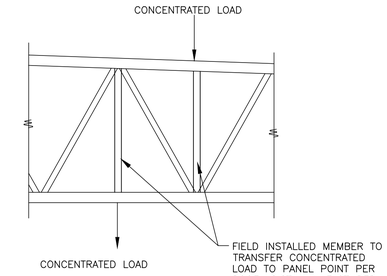
MARK	SHEATHING	SHEATHING NAIL SIZE	SHEATHING NAIL** SPACING @ PANEL EDGES	HOLDDOWN*** ANCHORS	ANCHOR BOLT SPACING	REMARKS
A	1-15/32"	8d	6"	1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR	32"	18" MIN. EMBED. ON HOLDDOWN ANCHORS.
B	1-15/32"	8d	6"	1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR	32"	18" MIN. EMBED. ON HOLDDOWN ANCHORS.
C	1-15/32"	8d	6"	1-HDU5-SDS2.5 W/(1) SB5/8x24" PRECAST ANCHOR	40"	18" MIN. EMBED. ON HOLDDOWN ANCHORS.

NOTES:
1. SHEATHING PANELS MAY BE LAID UP HORIZONTALLY OR VERTICALLY. NO VERTICAL PANEL EDGES ON VERTICAL CHORDS (HOLDDOWN LOCATION).
2. WIND LOADS GOVERN OVER SEISMIC LOADS UNLESS AS NOTED IN THE REMARKS COLUMN.
3. NAIL ALL SHEATHING TO INTERMEDIATE SUPPORTS @ 12" O.C.
4. SCREW HOLDOWN ANCHORS TO VERTICAL MEMBER W/ 14-"SDS1/4"øx2 1/2" SCREWS EACH.
* IF SILL PLATE OR TOP PLATES ARE NOT CONTINUOUS, CONTACT THE ENGINEER OF RECORD FOR SOLUTION.
** NAIL WALL SHEATHING TO ROOF DIAPHRAGM CHORD & TO EACH MEMBER/WALL VERTICAL CHORD W/ 10d COMMON NAILS @ 6" O.C., UNO.
*** HOLD DOWNS AND HOLD DOWN ANCHOR SYSTEMS PER SIMPSON STRONG TIE & SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

1 S3.2 SHEAR WALL SCHEDULE
N.T.S.



2 S3.2 HEADER SUPPORT DETAIL
N.T.S.



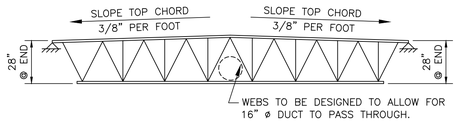
3 S3.2 JOIST DETAIL @ POINT LOADS
N.T.S.

1. FOR NATIONAL ACCOUNT PACKAGE & PRICING CONTACT REDBUILT @ 1-866-859-6757
2. JOIST MFGR. TO VERIFY SIZE AT HVAC ROOF TOP UNITS.

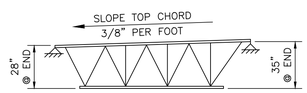
HEADER	HANGER
2x6	LUS26
2-2x6	LUS26-2
2x8	LUS28
2-2x8	LUS28-2
2x10	LUS210
2-2x10	LUS210-2

FOR OPENINGS < 1'-4" USE 1-2x6
FOR OPENINGS > 1'-4" AND < 4'-0" USE 2-2x8
FOR OPENINGS > 4'-0" AND < 6'-0" USE 2-2x10

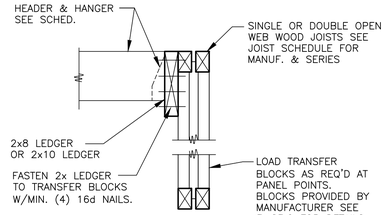
3. ALL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING NET UPLIFT. 108 MPH (BASIC) - 8 PSF SERVICE (ASD: 0.6D + 0.6W)



JOIST J1 PROFILE

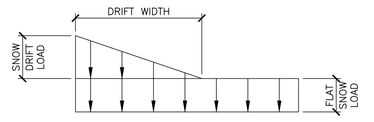


JOIST J2 PROFILE



LOAD TRANSFER BLOCKS CONCENTRATED LOADS

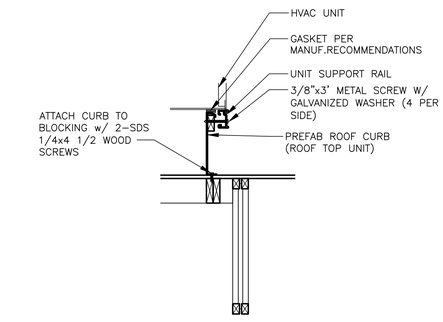
4 S3.2 JOIST NOTES
N.T.S.



DRIFT	SNOW DRIFT LOAD (PSF)	WIDTH (FT)
SHORT DIRECTION	23.0	5'-9"
LONG DIRECTION	34.0	8'-6"

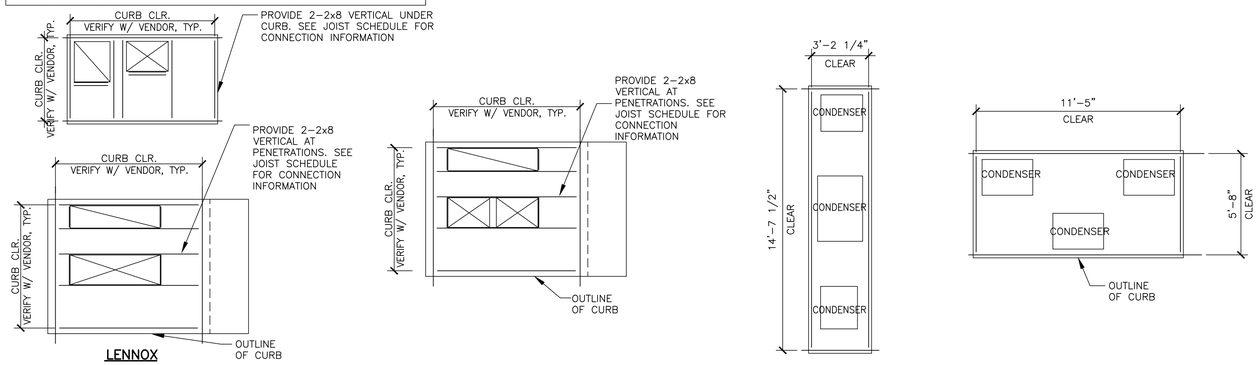
NOTE: SNOW DRIFT LOADS BASED ON NOMINAL, UNFACTORED GROUND SNOW LOADS. SEE SHEET S4.0 FOR ADDITIONAL INFORMATION.

5 S3.2 SNOW DRIFT DIAGRAM/SCHEDULE
N.T.S

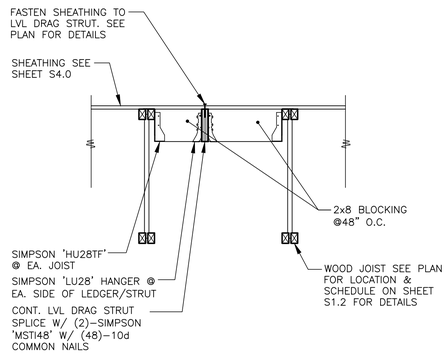


6 S3.2 SECTION
3/4" = 1'-0"

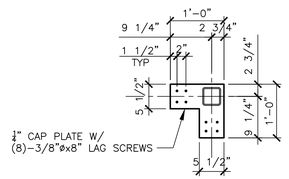
NOTE: RTU VENDOR/SUPPLIER AND MODEL SHALL BE VERIFIED PRIOR TO INSTALLATION. G.C. TO PROVIDE (2)-2x8 HDRS. BELOW RTU CURBS AND AT PERIMETER OF ALL PENETRATIONS/OPENINGS PER DETAIL 4/S3.2. COORDINATE LOCATIONS AND EXTENT WITH MANUFACTURER CURB SPECIFICATIONS.



7 S3.2 ROOF TOP UNIT CLEARANCES
1/4" = 1'-0"



8 S3.2 SECTION
3/4" = 1'-0"



9 S3.2 CORNER COLUMN BRACING DETAIL
3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

ASHIF PANAKKAT, P.E.
4103 N SOUTHPORT AVE,
CHICAGO, IL 60613
(312) 602 5411

STATE OF MISSOURI * ASHIF PANAKKAT * PE-2009034386 * PROFESSIONAL ENGINEER *

Signed/Sealed: 04/15/2026

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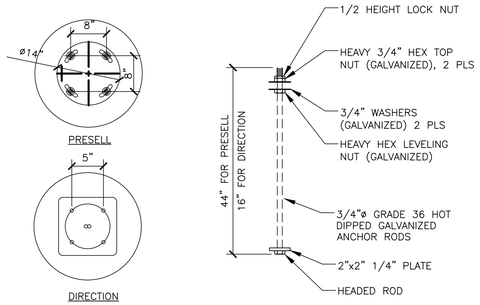
DRAWN BY	STD ISSUE DATE
MKP	2026
REVIEWED BY	DATE ISSUED
AP	04/15/2026

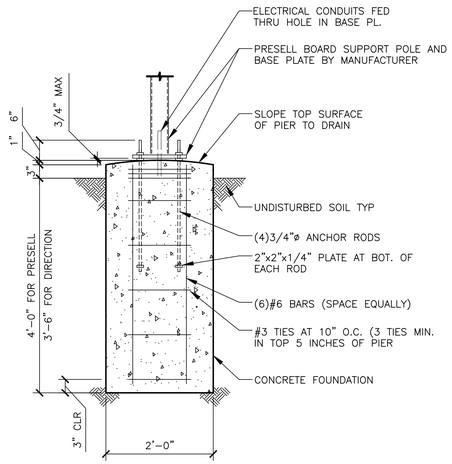
TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024-1329
SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO. S3.2
JAWA 26-0041
DETAILS



ANCHOR BOLT PATTERN

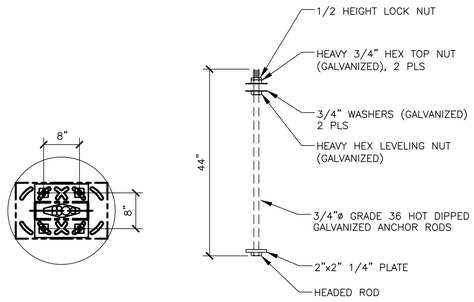


PIER SECTION DETAIL

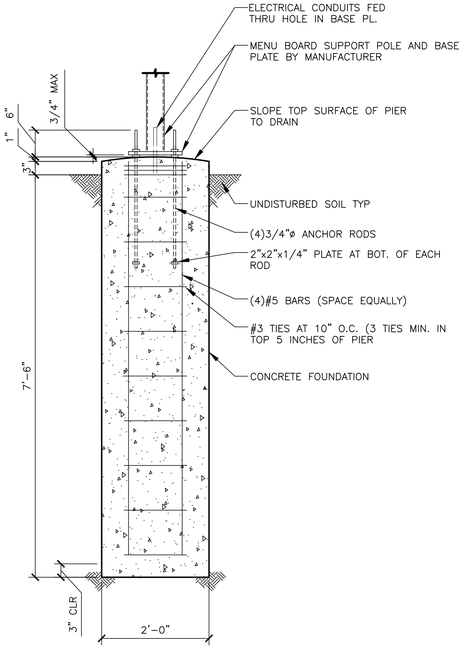
1 S3.3 FOUNDATION FOR PRESELL & DIRECTION BOARD

3/4" = 1'-0"

- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN LOADS DERIVED FROM CODES AND FORCES
  - AXIAL – 120# (PRESELL) 180# (DIRECTION)
  - SHEAR – 267# (PRESELL) 270# (DIRECTION)
  - MOMENT – 1,219#' (PRESELL) 1,010#' (DIRECTION)
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698–70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST–IN–PLACE CONCRETE SPECIFICATION, SECTION 3.11–E. ERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE
- HIS FOUNDATION TO BE USED ONLY WITH FLORIDA PLASTICS INTERNATIONAL INC. STANDARD OPO–1 PRESELL BOARD



ANCHOR BOLT PATTERN

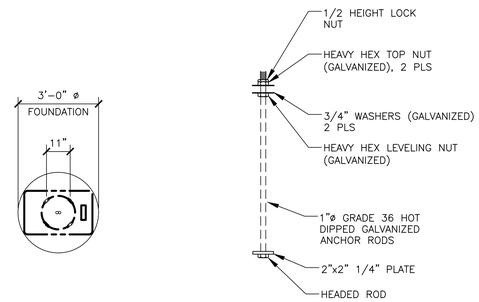


PIER SECTION DETAIL

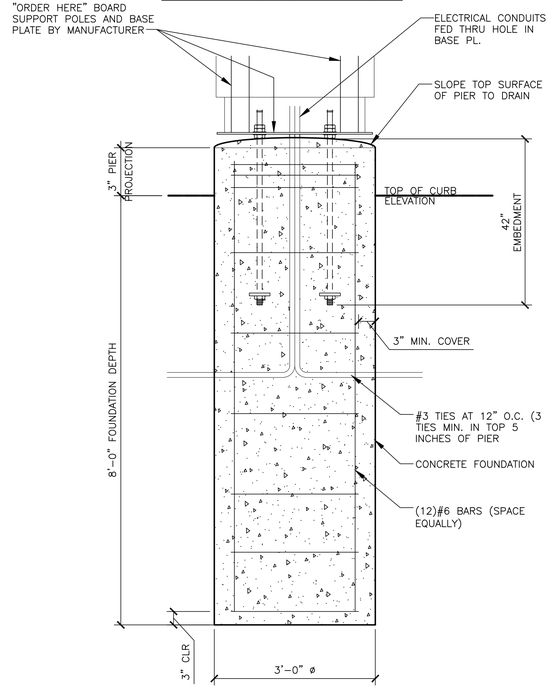
2 S3.3 FOUNDATION FOR MENU BOARD

3/4" = 1'-0"

- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN LOADS DERIVED FROM CODES AND FORCES
  - AXIAL – 850#
  - SHEAR – 1310#
  - MOMENT – 7,294#'
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698–70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST–IN–PLACE CONCRETE SPECIFICATION, SECTION 3.11–E. ERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE
- DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS



ANCHOR BOLT PATTERN

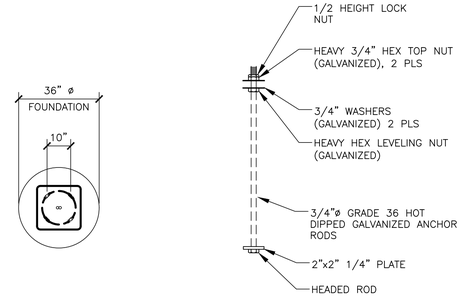


PIER SECTION DETAIL

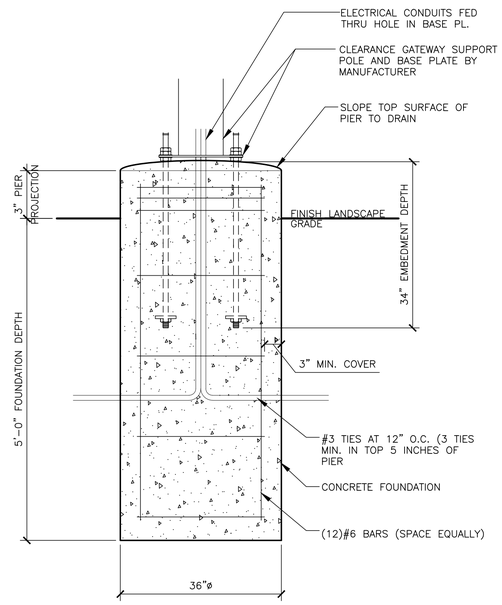
3 S3.3 FOUNDATION FOR "ORDER HERE" BOARD

3/4" = 1'-0"

- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN LOADS DERIVED FROM CODES AND FORCES
  - AXIAL – 2600#
  - SHEAR – 2900#
  - MOMENT – 14,500#'
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698–70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST–IN–PLACE CONCRETE SPECIFICATION, SECTION 3.11–E. ERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE
- DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS



ANCHOR BOLT PATTERN



4 S3.3 FOUNDATION FOR CLEARANCE GATEWAY

3/4" = 1'-0"

- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN LOADS DERIVED FROM CODES AND FORCES
  - AXIAL – 790#
  - SHEAR – 600#
  - MOMENT – 5335#'
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698–70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST–IN–PLACE CONCRETE SPECIFICATION, SECTION 3.11–E. ERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE
- DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS

BY	DESCRIPTION	DATE	REV

ASHIF PANAKKAT, P.E.
4103 N SOUTHPORT AVE,
CHICAGO, IL 60613

(312) 602 5411

STATE OF MISSOURI
ASHIF PANAKKAT
PE-2009034386
PROFESSIONAL ENGINEER

Signed/Sealed:
04/15/2026

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DRAWN BY	REVIEWED BY	DATE ISSUED
MKP	AP	04/15/2026
STD ISSUE DATE 2026		

TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD

DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024–1329

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

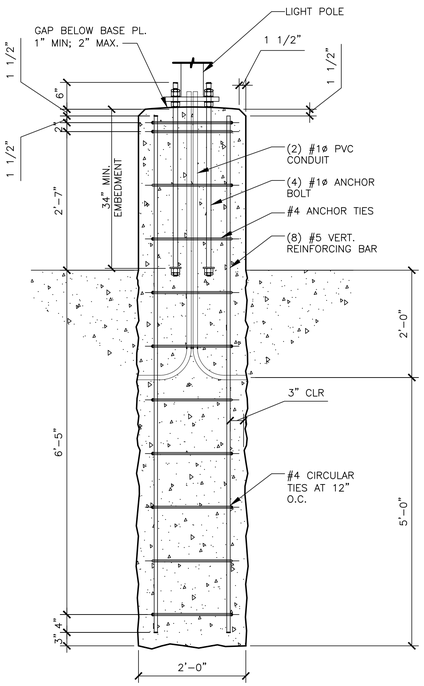
SHEET NO. S3.3

JAWA 26–0041

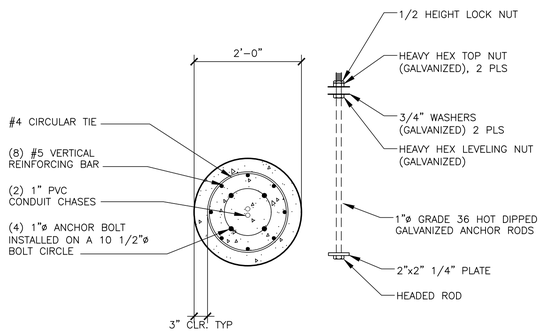
SITE ELEMENTS DETAILS

LIGHT POLE BASE NOTES

- SEE SHEET S4.0 FOR STRUCTURAL GENERAL NOTES
- DESIGN CRITERIA:
  - AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, FIFTH EDITION, 2009
- FOUNDATION DESIGN PARAMETERS:
  - MAXIMUM LIGHT POLE BASE REACTIONS:
  - BASE MOMENT = 16,845 lbs-ft
  - BASE SHEAR = 978 lbs
- 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
- THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8ft FROM A RETAINING WALL.
- THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 inches per foot.



PIER SECTION DETAIL



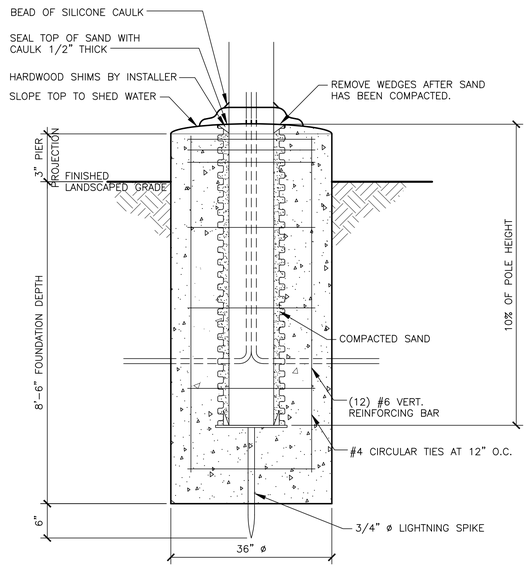
ANCHOR BOLT PATTERN

1 S3.4 **FOUNDATION FOR LIGHT POLE BASE**

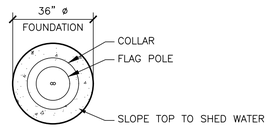
3/4" = 1'-0"

FLAG POLE BASE NOTES

- SEE SHEET S4.0 FOR STRUCTURAL GENERAL NOTES AND DESIGN CODES
- DESIGN CRITERIA:
  - AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, FIFTH EDITION, 2009
- FOUNDATION DESIGN PARAMETERS:
  - MAXIMUM LIGHT POLE BASE REACTIONS:
  - BASE MOMENT = 33,480 lbs-ft
  - BASE SHEAR = 1682 lbs
- 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
- THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8ft FROM A RETAINING WALL.
- THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 inches per foot.
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.
- INSTALL SAND AND POLE PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
- SEAL SAND IN FOUNDATION WITH CAULK PER MANUFACTURERS GUIDELINES.
- FLAG SIZES SHALL NOT EXCEED THE FOLLOWING AREA LIMITATIONS:
  - -25'-0" POLE --> 5'-0" x 8'-0" FLAG
  - -30'-0" POLE --> 6'-0" x 10'-0" FLAG
  - -40'-0" POLE --> 8'-0" x 12'-0" FLAG
  - -50'-0" POLE --> 10'-0" X 15'-0" FLAG
- REFER TO FLAG MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION INCLUDING INSTALLATION INSTRUCTIONS.



PIER SECTION DETAIL



ANCHOR BOLT PATTERN

2 S3.4 **FOUNDATION FOR FLAG POLE BASE**

3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

ASHIF PANAKKAT, P.E.
4103 N SOUTHPORT AVE,
CHICAGO, IL 60613

(312) 602 5411

STATE OF MISSOURI
ASHIF PANAKKAT
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PROFESSIONAL ENGINEER

Signed/Sealed:
04/15/2026

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REVIEWED BY:	DATE ISSUED
AP	04/15/2026

TITLE:
2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD

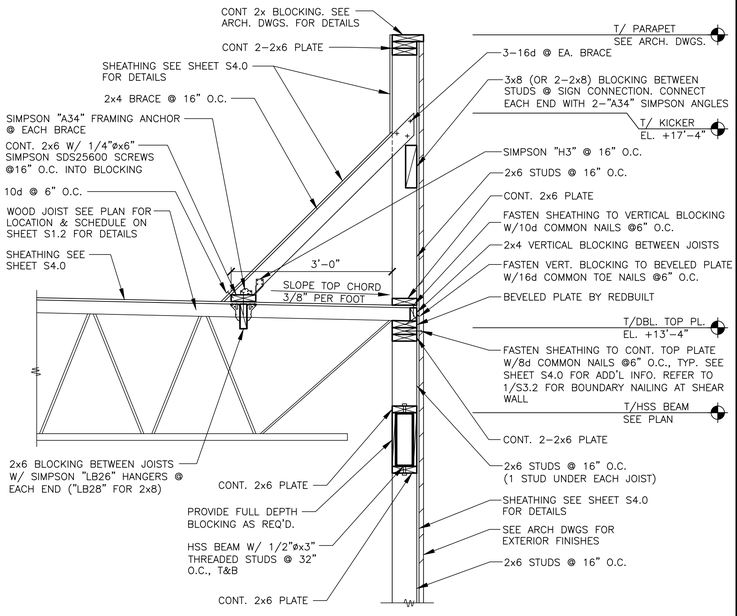
DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID
024-1329

SITE ADDRESS
SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

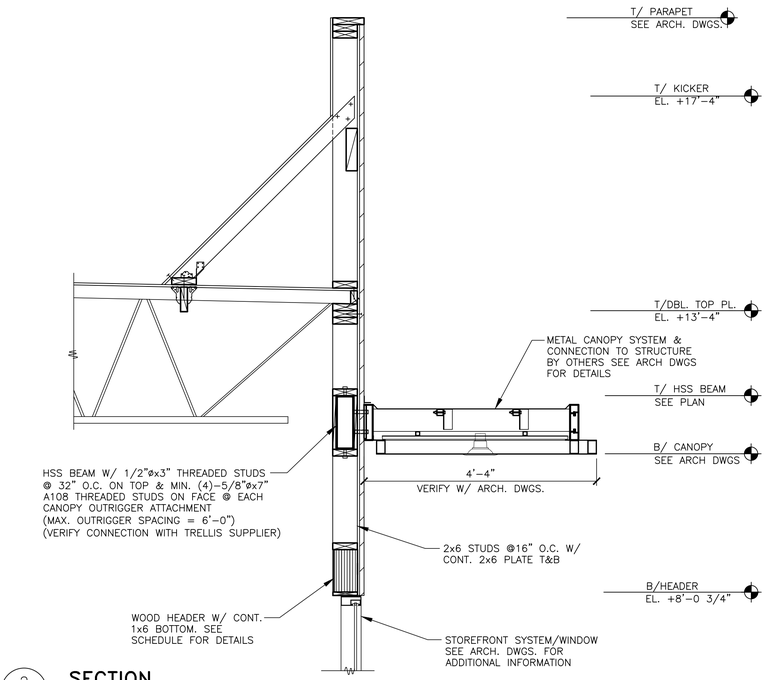
JAWA 26-0041

S3.4
SITE ELEMENTS DETAILS



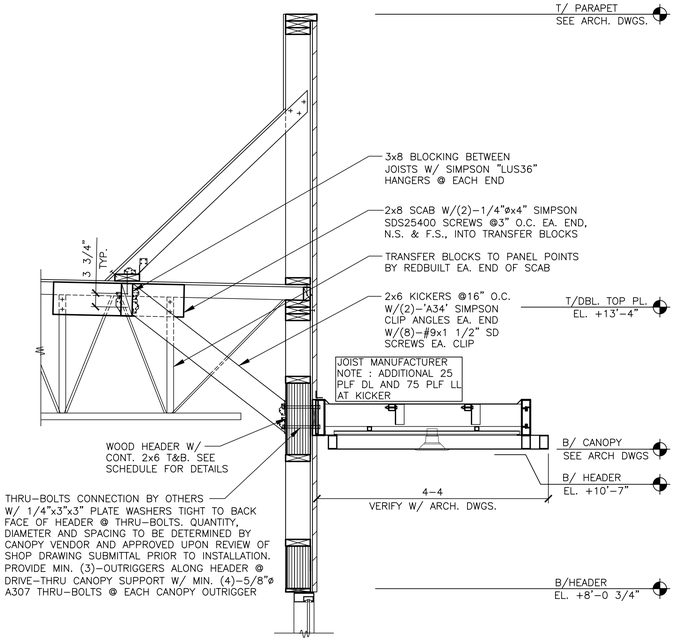
1 S3.5 **SECTION**
3/4" = 1'–0"

SEE SECTION 1/S3.5 FOR ADDITIONAL INFORMATION



2 S3.5 **SECTION**
3/4" = 1'–0"

SEE SECTION 2/S3.5 FOR ADDITIONAL INFORMATION



3 S3.5 **SECTION**
3/4" = 1'–0"

4 S3.5 **NOT USED**
3/4" = 1'–0"

5 S3.5 **NOT USED**
3/4" = 1'–0"

6 S3.5 **NOT USED**
3/4" = 1'–0"

REV	DATE	DESCRIPTION	BY

ASHIF PANAKKAT, P.E.
4103 N SOUTHPORT AVE,
CHICAGO, IL 60613

(312) 602 5411

Signed/Sealed:
04/15/2026

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TITLE
2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD

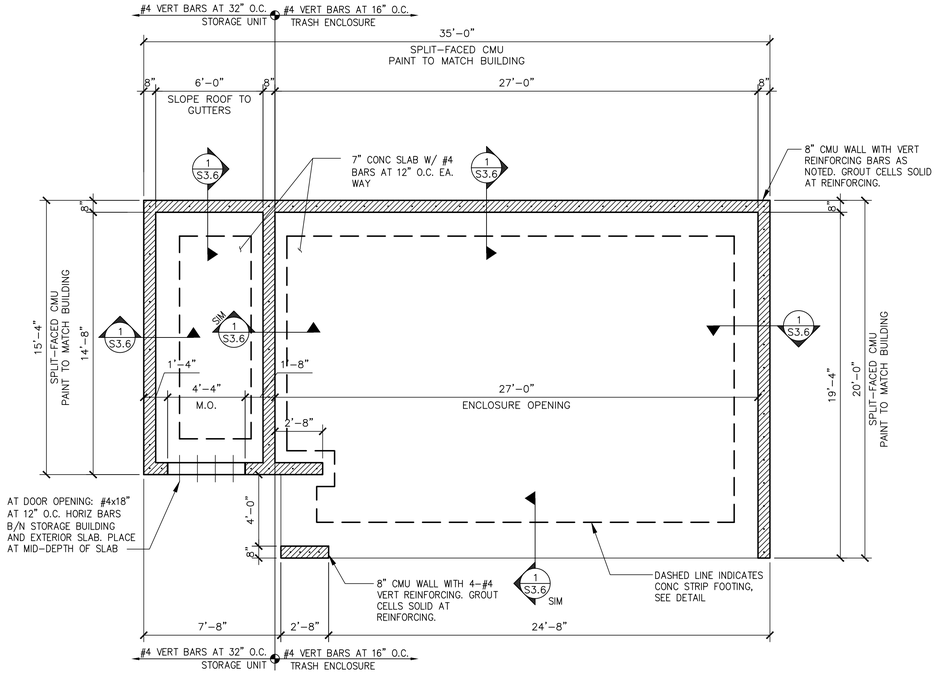
DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID
024–1329

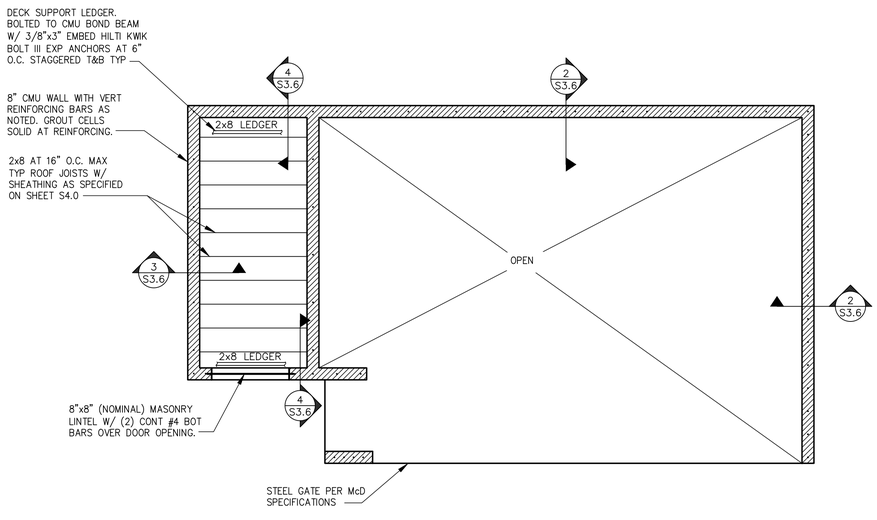
SITE ADDRESS
SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

JAWA 26–0041

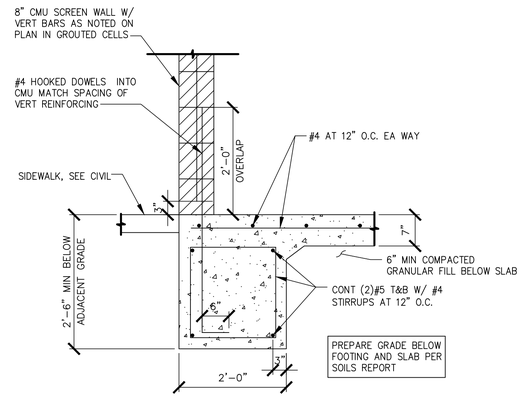
SHEET NO.
S3.5
FRAMING SECTIONS



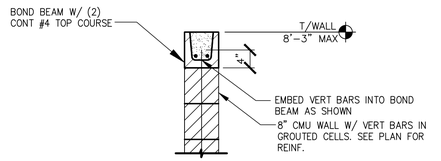
A S3.6 **FOUNDATION PLAN @ TRASH ENCL**
N.T.S.



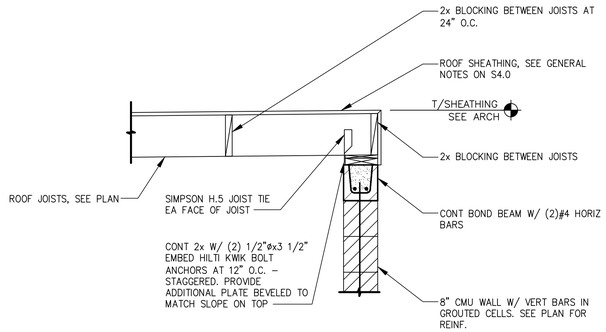
B S3.6 **FRAMING PLAN @ TRASH ENCL**
N.T.S.



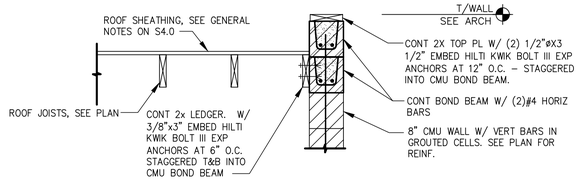
1 S3.6 **FOUNDATION DETAIL**
N.T.S.



2 S3.6 **TOP OF WALL @ TRASH ENCL**
N.T.S.



3 S3.6 **TOP OF WALL @ STORAGE BLDG**
N.T.S.



4 S3.6 **SECTION@ STORAGE BLDG**
N.T.S.

BY	DESCRIPTION	DATE	REV

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STATE OF MISSOURI
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TITLE: 2026 STANDARD BUILDING – BB20
4590-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS
SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SITE ID
024-1329

JAWA 26-0041

S3.6
TRASH ENCL DETAILS

STRUCTURAL GENERAL NOTES:

DESIGN AND LOADING

1. THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:
   - A. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
   - B. FLOOR:
     - LIVE LOAD: 100 PSF (NON-REDUCIBLE)
   - C. ROOF:
     - LIVE LOAD: 20 PSF
     - DEAD LOAD: 20 PSF
   - D. SNOW:
     - GROUND LOAD, P_g: 15 PSF
     - FLAT ROOF LOAD, P_f: 11 PSF
     - IMPORTANCE FACTOR, I_s: 1.0
     - EXPOSURE FACTOR, C_e: 1.0
     - THERMAL FACTOR, C_t: 1.0
     - SLOPE FACTOR, C_s: 1.0
   - E. WIND:
     - BASIC DESIGN WIND SPEED (3-SECOND GUST), V: 108 MPH
     - ALLOWABLE STRESS DESIGN WIND SPEED (3-SECOND GUST), V_{ASD}: 84 MPH
     - RISK CATEGORY: II
     - WIND EXPOSURE: C
     - GC_{pi} = ±0.18
     - PRESSURES PER ASCE 7-16
   - F. SEISMIC:
     - RISK CATEGORY: II
     - IMPORTANCE FACTOR: 1.00
     - SITE CLASS: D (ASSUMED)
     - SS = 0.177, S1= 0.1
     - SDS = 0.188, SD1 = 0.16
     - DESIGN CATEGORY: C
     - PLYWOOD SHEAR WALLS (R = 6.5)
     - STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R = 3.0)
     - DESIGN BASE SHEAR = SEE CALCULATIONS
     - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
   - G. FLOOD LOAD: N/A
   - H. SPECIAL LOADS: N/A
   - I. RAIN LOADS: N/A

FOUNDATION NOTES

1. ALLOWABLE SOIL BEARING CAPACITY = 1500 PSF (ASSUMED)
2. ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS.
4. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE

CONCRETE AND REINFORCING

1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) LATEST EDITIONS.
2. ALL NORMAL WEIGHT CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI (3500 PSI FOR SLABS).
3. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED AS RECOMMENDED BY ACI 318.
4. TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI-301.
5. REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 315 AND 315R.
6. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.
7. THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THE SUB-CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC360 "SPECIFICATION FOR STRUCTURAL STEEL". SEISMIC DESIGN OF STRUCTURAL STEEL STRUCTURES SHALL CONFORM TO AISC 341.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

A. ANCHOR RODS	F1554, GRADE 36
B. HIGH STRENGTH STRUCTURAL BOLTS	A325-N U.N.O.
C. STRUCTURAL SHAPES (W)	A992
D. STRUCTURAL SHAPES (M, S, C, MC, PLATES)	A36
E. STRUCTURAL SHAPES (HP)	A572
F. STRUCTURAL TUBING (HSS)	A500 GRADE C
G. STRUCTURAL ANGLES	A572

3. ALL WELDING ELECTRODES SHALL BE E70-XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.S. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION" AND SHALL BE MADE BY CERTIFIED WELDERS.

LAMINATED VENEER LUMBER (LVL)

1. ALL BEAMS SHALL BE MANUFACTURED WITH LAMINATED VENEER LUMBER AND WATERPROOF ADHESIVES.
2. SIZE, MANUFACTURER & SERIES OF ALL LVL MEMBERS SHALL BE AS SHOWN ON DRAWINGS.
3. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.
4. PROVIDE 3" MINIMUM BEARING OR AS SPECIFIED ON PLANS. REFER TO PLANS FOR FASTENING OF MULTIPLE PIECE BEAMS.

OPEN WEB WOOD JOISTS

1. OPEN WEB WOOD JOISTS SHALL BE MANUFACTURED WITH MACHINE STRESS RATED TOP AND BOTTOM CHORDS. WEBS SHALL BE TUBULAR STEEL MEMBERS PER MANUFACTURERS' SPECIFICATIONS.
2. SIZE, MANUFACTURER & SERIES OF ALL OPEN WEB JOISTS SHALL BE AS SHOWN ON DRAWINGS. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.
3. PROVIDE 3 1/2" MINIMUM BEARING OR AS SPECIFIED ON PLANS. SHIM AS REQUIRED TO PROVIDE FULL BEARING AND LEVEL SUPPORT.
4. DO NOT CUT TOP OR BOTTOM CHORDS.
5. ALL HANGERS AND FRAMING CONNECTORS SHOWN ARE MANUFACTURED BY SIMPSON STRONG TIE. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ENGINEER OR ARCHITECT OF RECORD.
6. REFER TO PLANS FOR WEB STIFFENER AND CONCENTRATED LOAD REQUIREMENTS.
7. REFER TO MANUFACTURERS' INSTALLATION GUIDE FOR JOIST BRACING DURING ERECTION. REFER TO MANUFACTURERS' INSTALLATION GUIDE FOR JOIST BRIDGING REQUIREMENTS.

SAWN LUMBER

1. ALL GRADES OF LUMBER INDICATED ON STRUCTURAL DRAWINGS SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). LUMBER GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%:
   - A. SOUTHERN PINE NO. 1.
   - B. DOUGLAS FIR-LARCH NO. 1.
   - C. HEM-FIR NORTH NO. 1
2. BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
3. MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE OR TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE IF NO OTHER CRITERIA IS GIVEN.
4. CONNECTORS SHOWN ON THE DETAILS ARE MANUFACTURED BY SIMPSON. WRITTEN APPROVAL BY ENGINEER REQUIRED FOR SUBSTITUTIONS.

ROOF & WALL SHEATHING

1. ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATIONS, LATEST EDITION. SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM.
2. WALL SHEATHING SHALL BE 15/32" (1/2" NOMINAL) APA RATED PLYWOOD SHEATHING, EXPOSURE 1, 32/16. ALL WALL SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/ 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATED SUPPORTS, U.N.O.
3. ROOF SHEATHING SHALL BE 23/32" (3/4" NOMINAL) APA RATED PLYWOOD SHEATHING, EXPOSURE 1, 48/24. ALL ROOF SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/10d COMMON NAILS @ 6" O.C. AT PANEL EDGES, AND 12" O.C. AT INTERMEDIATE SUPPORTS. U.N.O.
4. ORIENTED STRAND BOARD (OSB) IS NOT AN ACCEPTABLE SUBSTITUTION FOR PLYWOOD. PLYWOOD SHALL BE USED FOR ALL EXTERIOR SHEATHING APPLICATIONS.

MASONRY

CONCRETE BLOCK DESIGN AND CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES," TMS 402/ACI 530/ASCE 5 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602/ACI 530.1/ASCE 6)

1. MASONRY MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS:
   - A. HOLLOW LOAD BEARING CONCRETE BLOCK: ASTM C-90. MINIMUM COMPRESSIVE STRENGTH = 2800 PSI AT 28 DAYS.
   - B. MORTAR: ASTM C-270, TYPE S. MINIMUM COMPRESSIVE STRENGTH = 1800 PSI AT 28 DAYS.
   - C. MORTAR: ASTM C-270, TYPE M. MINIMUM COMPRESSIVE STRENGTH = 2500 PSI AT 28 DAYS. (USED FOR BELOW GRADE WORK)
   - D. GROUT: ASTM C-476. MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS
   - E. MASONRY REINFORCEMENT: ASTM A-82 GALVANIZED (JOINT BEDS, TIES)
   - F. MASONRY PRISM STRENGTH: F'm = 2000 PSI
2. PRIOR TO DELIVERY OF MASONRY UNITS TO THE JOB SITE, FURNISH TO THE OWNER AFFIDAVITS FROM AN APPROVED TESTING LABORATORY CERTIFYING THAT ALL UNITS CONFORM TO THEIR RESPECTIVE ASTM REQUIREMENTS.
3. GROUT ALL CAVITIES CONTAINING REINFORCEMENT IN LIFTS NOT TO EXCEED 5'-0".
4. LABORATORY PREPARED MIXES SHALL BE PREPARED AND TESTED IN ACCORDANCE WITH ASTM C-270. FIELD MORTAR SHALL BE TESTED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH ASTM C-780 TWO SETS OF THREE MORTAR CUBES SHALL BE TAKEN DIRECTLY FROM THE MIXER FOR EACH DAY OF MASONRY WORK. TEST THE CUBES AT 28 DAYS. ACCEPTANCE OF THE MORTAR SHALL BE AT THE DISCRETION OF THE ENGINEER.
5. CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE INCLUDED IN MORTAR OR GROUT MIX, EXCEPT WHEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO ANTI FREEZE COMPOUNDS SHALL BE USED TO LOWER THE MORTAR'S FREEZING POINT.
6. NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT, UNLESS THE RECOMMENDATIONS SPECIFIED BY THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" TMS 402/ACI 530/ASCE 5 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602/ACI 530.1/ASCE 6) FOR COLD WEATHER CONSTRUCTION ARE STRICTLY FOLLOWED.
7. THE MASONRY CONTRACTOR SHALL PROVIDE BRACING TO WITHSTAND HORIZONTAL PRESSURES AS REQUIRED BY THE BUILDING CODE AND LOCAL ORDINANCE.

LIGHT GAGE METAL FRAMING

1. 16 GA. AND HEAVIER STUDS SHALL HAVE A MINIMUM YIELD STRESS OF 50,000 PSI. 18 GA. AND LIGHTER STUDS AND TRACKS SHALL HAVE A MINIMUM YIELD STRESS OF 33,000 PSI.
2. STUDS AND TRACKS SHALL BE 18 GA. MINIMUM U.N.O. THEY SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES, INC. OR APPROVED EQUAL.
3. PROVIDE DOUBLE STUDS FOR FULL HEIGHT OF WALL EACH SIDE OF ALL OPENINGS UNLESS OTHERWISE NOTED. WELD STUDS TO EACH OTHER WITH 1 1/2" LONG 1/8" FILLET WELDS AT 12" O.C. EACH SIDE. PROVIDE STUD TRACK AT EACH HEAD AND SILL.
4. REFER TO PLANS AND DETAILS FOR CONNECTION OF STUD WALLS TO FOUNDATION, FLOOR OR ROOF.

SHOP DRAWINGS

1. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY.
2. SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR TO VERIFY THAT SUBMITTAL IS COMPLETE PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
3. DRAWINGS CREATED BY THE ENGINEER OF RECORD CANNOT BE REPRODUCED AND/OR USED AS A SHOP DRAWING SUBMITTAL. SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING:
   - A. CONCRETE MIX DESIGN
   - B. FOUNDATION REINFORCING BARS
   - C. STRUCTURAL STEEL
   - D. OPEN WEB JOISTS AND CALCULATIONS
   - E. ROOF SHEATHING
   - F. TRELLIS SYSTEM & CALCULATIONS
   - G. LAMINATED VENEER LUMBER (LVL)
   - H. SAWN LUMBER AND CONNECTORS

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705 OF IBC AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2018 INTERNATIONAL BUILDING CODE SECTIONS/LOCATIONS:
   - A. SOILS – SECTION 1705.6 PER TABLE 1705.6
   - B. CONCRETE – SECTION 1705.3 PER TABLE 1705.3
   - C. STEEL – SECTION 1705.2 (SEE AISC 360-16)
   - D. WOOD – SECTION 1705.5

MISCELLANEOUS

1. ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.
2. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.
3. DO NOT SCALE THE DRAWINGS.

CONCRETE BLOCK JOINT REINFORCEMENT (AT DUMPSTER ENCLOSURE):

ALL CONCRETE BLOCK WALLS TO RECEIVE THE FOLLOWING JOINT REINFORCEMENT: LADDER TYPE JOINT REINFORCING WITH SIDE AND CROSS RODS WITH WIRE SIZE (W2.8 OR 3/16"ø) SPACED 16" O.C. VERTICALLY. (HOHMANN & BARNARD 220 "SUPER HEAVY DUTY" OR EQUAL) SIMILAR FOR CONCRETE BRICK PRODUCTS.

1 / S4.0 CONCRETE BLOCK JOINT REINFORCEMENT

ALL UTILITY CONNECTIONS IS TO BE COORDINATED WITH CIVIL ENGINEER ON RECORD AND ACM. GC TO VERIFY ANY DISCREPANCIES WITH ARCHITECT, ENGINEERS OF RECORD, AND ACM.

REV	DATE	DESCRIPTION	BY

ASHIF PANAKKAT, P.E.
4103 N SOUTHPORT AVE,
CHICAGO, IL 60613

(312) 602 5411

STATE OF MISSOURI * ASHIF PANAKKAT * PE-2009034386 * PROFESSIONAL ENGINEER

Signed/Sealed:
04/15/2026

McDonald's USA, LLC

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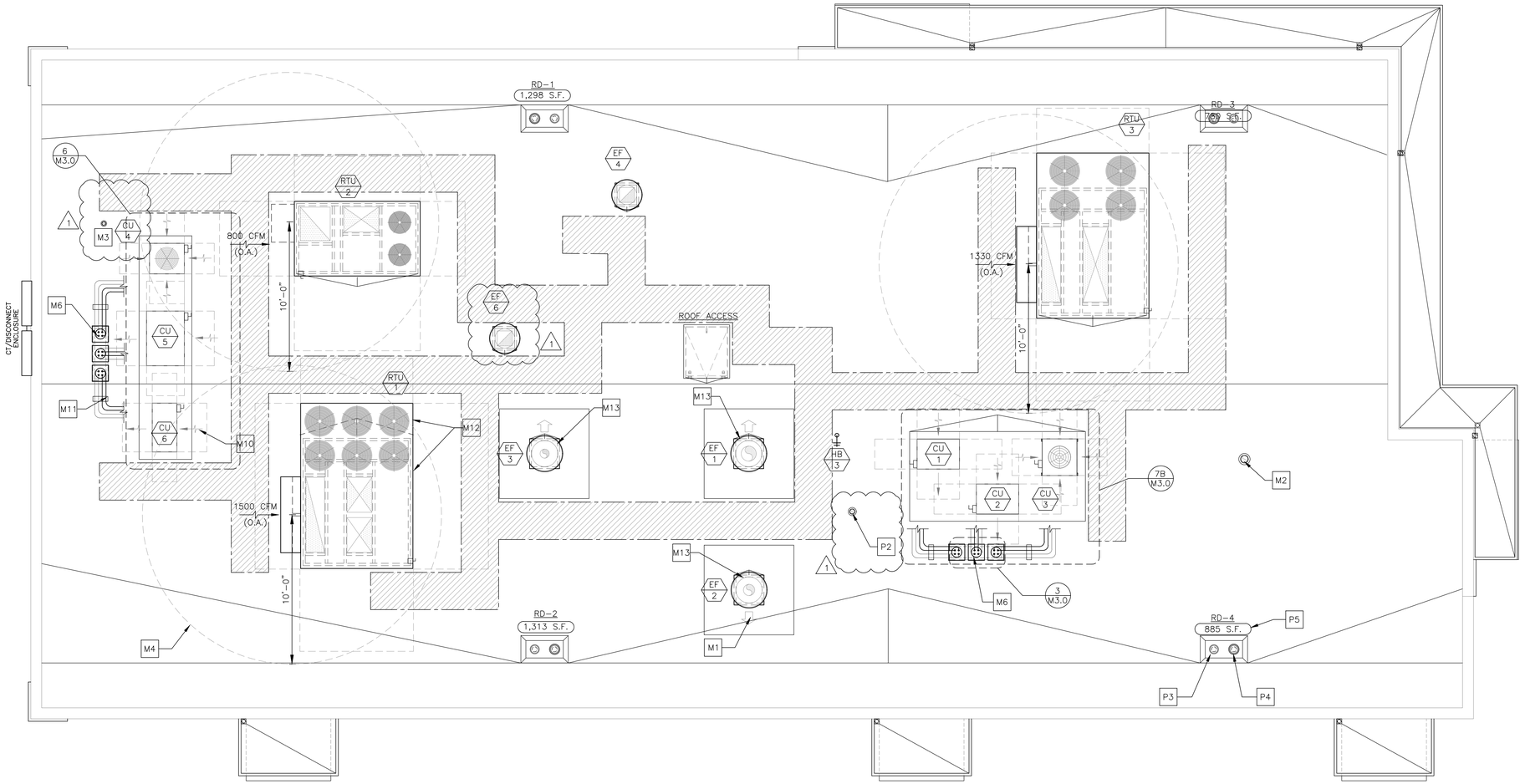
DRAWN BY	MKP
STD ISSUE DATE	2026
REVIEWED BY	AP
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024-1329
SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO. JAWA 26-0041
S4.0
STRUCTURAL NOTES



1 M1.0 ROOF PLAN
1/4"=1'-0"

DRAWING NOTES

1. ROOFTOP EQUIPMENT LOCATIONS SHOWN ARE GENERAL. ACTUAL LOCATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS.
2. ROOF OPENINGS FOR ROOFTOP UNITS AND EXHAUST FANS SHALL BE COORDINATED WITH THE MANUFACTURER.
3. ROOF OPENINGS FOR PIPE PORTALS SHALL ONLY BE LARGE ENOUGH TO ALLOW PIPE AND CONDUIT PENETRATIONS. PIPE PORTAL CURB SHALL BE FILLED WITH AS MUCH BATT INSULATION AS POSSIBLE.
4. PRIOR TO INSTALLING THE TOP OF THE EQUIPMENT PLATFORM, INSIDE OF THE PLATFORM SHALL BE INSULATED WITH AS MUCH BATT INSULATION AS POSSIBLE.

KEYED NOTES

- M1 ARROW INDICATES DIRECTION OF EXHAUST FAN HINGE SWING (TYP.)
- M2 6"ø ALUMINUM EXHAUST DUCT FROM EXHAUST FAN (EF-5). PROVIDE PORTALS PLUS PLASTI-FLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION. TERMINATE DUCT A MIN. OF 24" ABOVE FINISHED ROOF WITH GOOSENECK
- M3 2" CONDUIT FOR 5G ANTENNA. SEE DRAWING SHEET E2.1 FOR ADDITIONAL INFORMATION.
- 1 M4 MAINTAIN A MINIMUM 10'-0" CLEARANCE FROM EDGE OF OUTLETS AND VENT TERMINALS TO FRESH AIR INTAKES (TYP.)
- M5 NOT USED
- M6 ROOF PIPE PORTAL FOR CONDENSING UNITS
- M7 NOT USED.
- M8 NOT USED.
- M9 NOT USED.
- M10 ARROW INDICATES DIRECTION OF AIRFLOW FOR CONDENSING OR ROOFTOP UNIT AIR INTAKE (TYP.)
- M11 REFRIGERANT PIPING SUPPORT AS REQUIRED. PROVIDE ROOFTOP BLOX MODEL RTB-01 (OR EQUAL) AND ALL NECESSARY ACCESSORIES FOR PROPER PIPE AND CONDUIT SUPPORT. PROVIDE GALVANIZED PIPE SHIELD TO PROTECT INSULATION AT ALL SUPPORTS.
- M12 PROVIDE HAIL GUARD FOR RTU-1 PROTECTING CONDENSER COIL FROM GREASE.
- M13 EXHAUST FANS WITH WINDBAND EXTENSION TO PREVENT DIRECT GREASE BLOW ONTO CONDENSER COIL OF UNIT RTU-1.
- P1 NOT USED
- P2 PLUMBING VENT THROUGH ROOF (SEE PLUMBING DRAWINGS). PROVIDE PORTALS PLUS PLASTI-FLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION.
- P3 PRIMARY ROOF DRAIN WITH DOME STRAINER (TYP). (SEE PLUMBING DRAWINGS)
- P4 OVERFLOW ROOF DRAIN WITH DOME STRAINER (TYP). (SEE PLUMBING DRAWINGS)
- P5 AREA OF ROOF SERVED BY ROOF DRAIN (TYP.)

PIPE PORTAL SCHEDULE

MANUFACTURER	CURB DIMENSIONS	CURB TYPE	CAP TYPE (QTY)	SERVES
RPS	43"x12"x13"H	RC-2A	N18 (3)	CU-1 THROUGH CU-6

SEQUENCE OF OPERATION

THERMOSTAT SETTINGS			
		SETPOINTS	
MODE	FAN	COOLING	HEATING
OCCUPIED	ON	75°F	70°F
UNOCCUPIED	AUTO	90°F	55°F
HUMIDITY			
HUMIDITY SETPOINT (FOR DEHUMIDIFICATION UNITS ONLY)		60%	

RTU-1, RTU-2 & RTU-3:

1. OCCUPIED MODE SHALL BEGIN AS FOLLOWS:
   - RTU-1: 1.5 HOURS BEFORE OPEN
   - RTU-2: 1 HOUR BEFORE OPEN
   - RTU-3: 30 MINUTES BEFORE OPEN
2. ROOFTOP UNIT FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE
3. ECONOMIZER SHALL BE OPEN DURING OCCUPIED MODE (OUTDOOR AIR THROUGH ROOFTOP UNITS SERVES AS MAKE-UP AIR FOR THE KITCHEN EXHAUST SYSTEM) – REFER TO E3.2 FOR HOOD/FAN INTERLOCK DETAILS.
4. UNOCCUPIED MODE SHALL BEGIN ONE (1) HOUR AFTER STORE CLOSES
5. DURING UNOCCUPIED MODE, ECONOMIZER IS CLOSED AND HEATING, COOLING AND FAN OPERATE IN AUTO MODE (ON DEMAND)
6. RTU-2 SHALL BE INTERLOCKED WITH EF-6. UPON ACTIVATION OF EF-6, RTU-2 SHALL INCREASE OUTSIDE AIR BY 600 CFM, WHILE MAINTAINING 1500 CFM RETURN AIR. COORDINATE WITH E.C. AND BAS SUPPLIER.

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010037
PROFESSIONAL ENGINEER
7/22/26

PREPARED FOR: McDonald's USA, LLC
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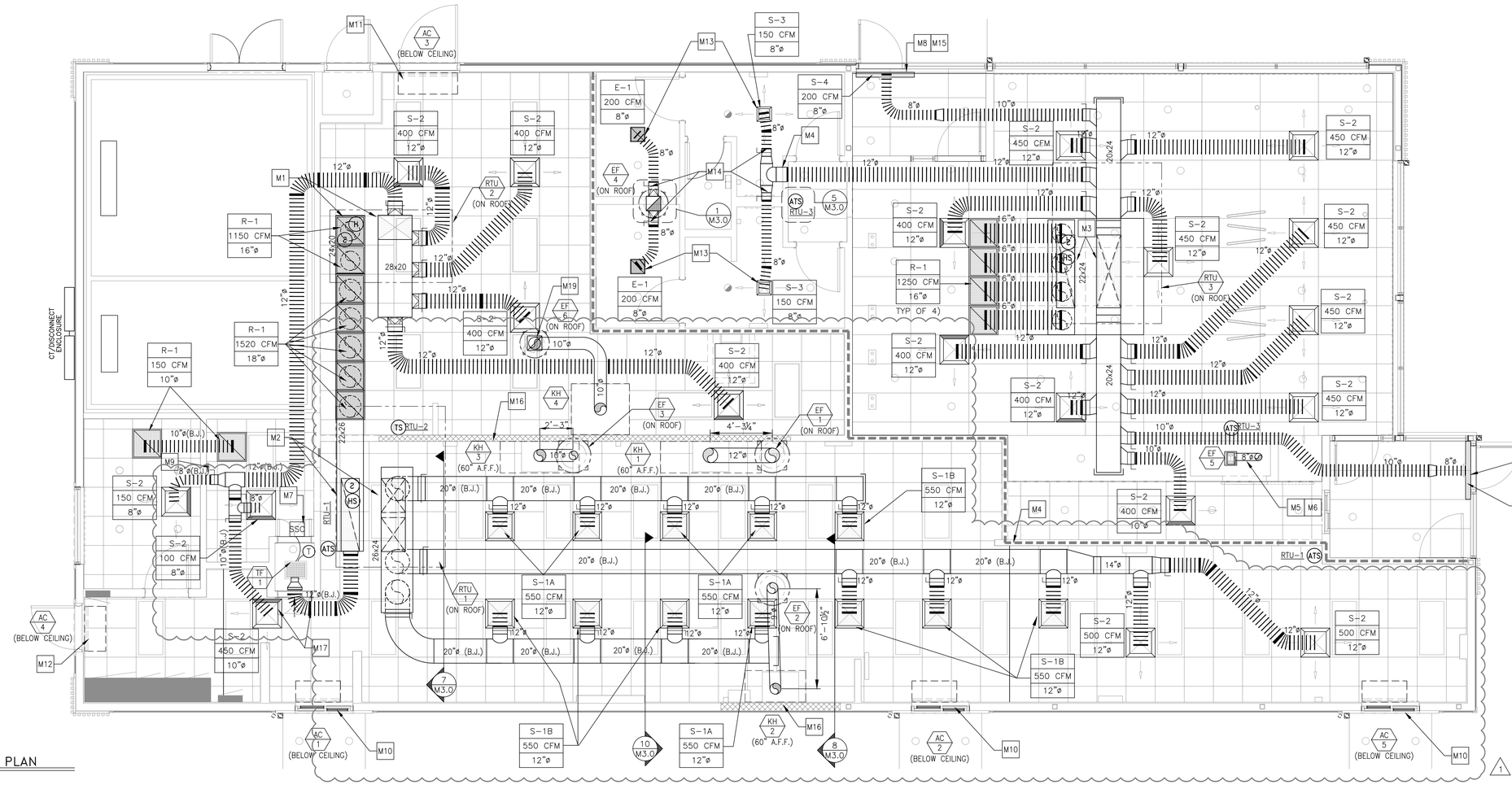
DRAWN BY: MES
STD ISSUE DATE: 2026
REVIEWED BY: JAW
DATE ISSUED: 04/15/2026

TITLE: 2026 STANDARD BUILDING – B820
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING
SITE ID: 024-1329
SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

JAWA 26-0041
SHEET NO. M1.0
ROOF PLAN



1 M1.2 DUCTWORK PLAN
1/4"=1'-0"

DRAWING NOTES

1. ALL DUCTWORK SHALL BE RUN BETWEEN OR THROUGH THE JOISTS UNLESS NOTED OTHERWISE. DUCTWORK DESIGNATED WITH (B.J.) SHALL BE RUN BELOW THE JOISTS.
2. DUCT SIZES SHOWN ARE INTERNAL FREE AREA DIMENSIONS UNLESS NOTED OTHERWISE.
3. ALL SHEET METAL DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION IS NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES FOR INSULATION REQUIREMENTS.
4. CARBON STEEL KITCHEN EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES AND DETAILS FOR INSULATION REQUIREMENTS.
5. RETURN AIRFLOW VOLUME SHOWN ON PLAN IS FOR DUCTWORK SIZING PURPOSES WHEN THE UNIT IS IN RECIRCULATION (UNOCCUPIED) MODE.
6. DIFFUSERS IN DINING ROOM ARE SPECIFIC TO THE DECOR PLAN SHOWN. DIFFERENT CEILING LAYOUTS MAY REQUIRE A DIFFERENT DIFFUSER TYPES, QUANTITIES, LOCATIONS AND FINISHES/COLORS.
7. NO DIFFUSERS OR GRILLES TO BE INSTALLED ABOVE KIOSKS TO AVOID CONFLICTS WITH KIOSK'S CEILING PENETRATIONS FOR CONDUITS

KEYED NOTES

M1 28x20 SUPPLY AND 24x27 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-2)

M2 20x60 SUPPLY AND 15x60 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-1)

M3 20x60 SUPPLY AND 15x60 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-3)

M4 PROVIDE SHEET METAL DUCT AT ALL DRAFTSTOP WALL PENETRATIONS (TYP.)

M5 8"ø ALUMINUM DUCT FROM EXHAUST FAN UP THROUGH ROOF

M6 EXTERNALLY INSULATE EXHAUST DUCT FROM FAN TO ROOF PENETRATION

M7 STEADY STATE SPEED CONTROLLER FOR CEILING MOUNTED EXHAUST FAN. STEADY STATE SPEED CONTROLLER SHALL BE INSTALLED OVER SUSPENDED CEILING FOR ACCESS. DO NOT INSTALL OVER AREAS WITH DRYWALL CEILINGS. SET IT CLOSET THERMOSTAT AT 80°F (ADJ)

M8 SET DIFFUSER'S (S-5) OUTER SLOT FOR VERTICAL AIR THROW PATTERN AND INNER SLOT FOR HORIZONTAL THROW PATTERN (TYP.)

M9 BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.

M10 MOUNT AIR CURTAIN TIGHT TO CEILING

M11 MOUNT AIR CURTAIN WITH BOTTOM OF UNIT AT TOP OF DOOR FRAME

M12 MOUNT AIR CURTAIN WITH BOTTOM OF UNIT ABOVE DOOR FRAME AND TOP OF SWITCHGEAR TO MEET 3'-0" MINIMUM SWITCHGEAR'S CLEARANCE REQUIREMENT

M13 FOR DIFFUSERS INSTALLED IN DRYWALL CEILINGS, VOLUME DAMPER IS INTEGRAL TO DIFFUSER AND ADJUSTABLE AT FACE OF DIFFUSER (SEE NOTE 18 UNDER "VENTILATION SYSTEMS" ON DRAWING M4.0 AND AIR DEVICE SCHEDULE ON DRAWING M4.1)

M14 FOR DIFFUSERS INSTALLED IN DRYWALL CEILINGS, INSTALL HIGH-EFFICIENCY TAKE-OFFS WITH VOLUME DAMPER IN FULL-OPEN POSITION TO FACILITATE BALANCING AT FACE OF DIFFUSER.

M15 GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL T-BAR FRAME TO PROPERLY LOCATE DIFFUSER AS SHOWN. AIR STREAM FROM DIFFUSER SHALL COVER ENTIRE DOOR OPENING.

M16 NONCOMBUSTIBLE WALL CONSTRUCTION BEHIND TYPE I KITCHEN HOODS. REFER TO SHEET A1.0 FOR MORE INFORMATION.

M17 PROVIDE TYPE "DG" 10x14 TRANSFER AIR LOUVER IN EACH TECH CLOSET DOOR WHERE INDICATED. LOUVER INSTALLATION MUST BE COORDINATED WITH OTHER TRADES. SEE ARCHITECTURAL DOOR SCHEDULE AND AIR DEVICE SCHEDULE ON DRAWING SHEET M4.1

M18 NOT USED.

M19 10" 304 STAINLESS STEEL DUCT BY KES SUPPLIER. FROM TYPE II EXHAUST HOOD UP THROUGH ROOF TO EXHAUST FAN. DUCTWORK SHALL BE PITCHED TOWARDS TYPE II EXHAUST HOOD. EXTERNALLY INSULATE EXHAUST DUCT FROM TYPE II EXHAUST HOOD CONNECTION TO ROOF PENETRATION.

2012 IMC SECTION 403.3 - VENTILATION SCHEDULE

UNIT	AREA SERVED	AREA FT² (Az)	CFM / PERSON (Rp)	CFM/FT² (Ra)	PEOPLE / 1000 FT² (Pz)	BREATHING ZONE REQUIRED O/A CFM (Vbz)	Ez*	Ev**	REQUIRED O/A CFM (Vot)***	ACTUAL O/A CFM	REQUIRED EXHAUST CFM	ACTUAL EXHAUST CFM
RTU-1	PRESENTER	20	7.5	0.12	20	5	0.8	1.00	-	-	-	-
	KITCHEN	1000	7.5	0.12	20	270	0.8		-	-	-	-
						275			*231*	*1500*		
RTU-2	SUPPORT	565	5	0.06	2	40	0.8	1.00	-	-	-	-
	MANAGER'S OFFICE	65	5	0.06	5	6	0.8		-	-	-	-
	CREW ROOM	100	5	0.06	5	9	0.8		-	-	-	-
	ORDER	95	7.5	0.12	20	26	0.8		-	-	-	-
						79			*131*	*800*		
RTU-3	DINING	715	7.5	0.18	70	504	0.8	0.95	-	-	-	-
	CUSTOMER SERVICE	115	7.5	0.18	70	81	0.8		-	-	-	-
	VESTIBULE 1	60	-	0.06	-	4	0.8		-	-	-	-
	VESTIBULE 2	60	-	0.06	-	4	0.8		-	-	-	-
	WOMEN'S	135	-	-	-	-	-		-	-	-	-
	MEN'S	120	-	-	-	-	-		-	-	-	-
						592			*566*	*1330*		
EF-1, 2 & 3	KITCHEN	1000	-	0.7	-	-	-	-	-	-	700	2405
EF-4	WOMEN'S	135	-	-	-	-	-	-	-	-	100	200
	MEN'S	120	-	-	-	-	-		-	-	100	200
EF-5	JANITOR'S CLOSET	25	-	-	-	-	-	-	-	-	-	80
EF-6	WAREWASHER	-	-	-	-	-	-	-	-	-	350	600
									929	3630	900	3485

* ZONE AIR DISTRIBUTION EFFECTIVENESS BASED ON IMC TABLE 403.3.1.1.2 FOR CEILING SUPPLY OF WARM AIR 15° F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN.
** VENTILATION SYSTEM EFFICIENCY BASED ON IMC TABLE 403.3.1.1.2.3.2.
*** CORRECTED REQUIRED O/A INTAKE REQUIRED FOR SYSTEM CALCULATED BASED ON IMC SECTION 403.3.1.1.2.3.3.

AIR BALANCE SCHEDULE

UNIT	SUPPLY AIR	RETURN AIR	OUTDOOR AIR	EXHAUST AIR	PRESSURE
RTU-1	7600	6100	1500		1500
RTU-2	2300	1500	800		800
RTU-3	5000	3670	1330		1390
EF-1				1000	-1000
EF-2				575	-575
EF-3				800	-800
EF-4				400	-400
EF-5				80	-80
EF-6				600	-600
TOTALS	14900	11270	3630	3455	175

NOTES:
1. BALANCING TOLERANCES ARE AS FOLLOWS:
   HOODS: 0% TO +10%
   OUTDOOR AIR: 0% TO +10%
   SUPPLY AND RETURN AIR DIFFUSERS: -10% TO +10%
   TOILET EXHAUST AIR: -10% TO +10%
2. BALANCE ROOFTOP UNIT SUPPLY AND RETURN AIR PRIOR TO TURNING ON EXHAUST FANS.
3. EXHAUST HOODS SHALL BE BALANCED WITH A 4" VANE ANEMOMETER.
4. RTU BLOWER TO RUN CONTINUOUSLY DURING OCCUPIED HOURS. REFER TO SEQUENCE OF OPERATIONS ON M1.0 AND E3.2 FOR HOOD/FAN INTERLOCK DETAILS.
5. EF-6 DOES NOT RUN CONTINUOUSLY - VALUES SHOWN IN AIR BALANCE SCHEDULE REFLECT OPERATIONAL STATE. WHEN EF-6 IS NOT OPERATIONAL, OUTSIDE AIR AT RTU-2 SHALL BE DECREASED BY 600 CFM ACCORDINGLY. REFER TO M1.0 FOR ADDITIONAL DETAILS OF SEQUENCE OF OPERATIONS AND INTERLOCKING REQUIREMENTS.

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010037744
PROFESSIONAL ENGINEER
7/22/26

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McDonald's USA, LLC
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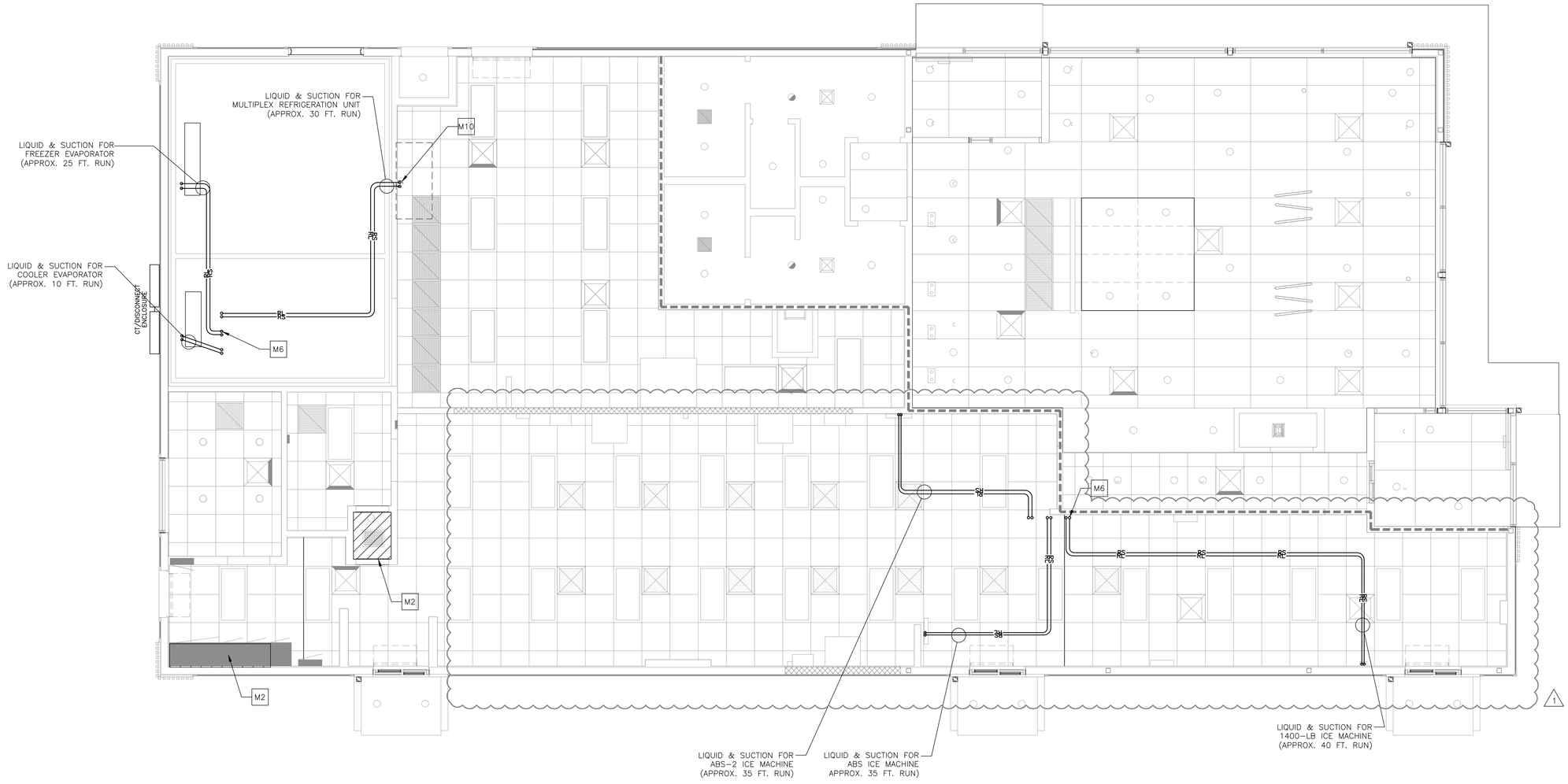
DRAWN BY: MES
STD. ISSUE DATE: 2026
REVIEWED BY: JAW
DATE ISSUED: 04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING
SITE ID: 024-1329
SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO.: M1.2
JAWA 26-0041
DUCTWORK PLAN



1 M1.4 MECHANICAL PIPING PLAN
1/4"=1'-0"

DRAWING NOTES

1. NOT USED.
2. REFRIGERANT PIPE SIZES SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

KEYED NOTES

- M1 NOT USED.
- M2 UTILITIES SHALL NOT BE ROUTED ABOVE TECH. CLOSET. OR SWITCHGEAR.
- M3 NOT USED.
- M4 NOT USED.
- M5 NOT USED.
- M6 REFRIGERANT LIQUID AND SUCTION LINES UP THROUGH ROOF TO CONDENSING UNITS (TYP. 6 PLACES – SEE DETAIL 3 ON DRAWING M3.0)
- M7 NOT USED.
- M8 NOT USED.
- M9 NOT USED.
- M10 REFRIGERANT LINES DOWN TO SODA SYSTEM (MULTIPLEX).

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2009019772
PROFESSIONAL ENGINEER
7/22/26

PREPARED FOR: McDonald's USA, LLC

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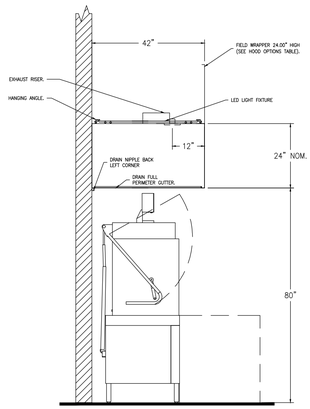
DRAWN BY	MES
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026
TITLE	2026 STANDARD BUILDING – BB20 4590-WOOD/WOOD
DESCRIPTION	WOOD BEARING WALLS WOOD ROOF TRUSS FRAMING
SITE ADDRESS	SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
SITE ID	024-1329
SHEET NO.	JAWA 26-0041 M1.4 MECH. PIPING PLAN

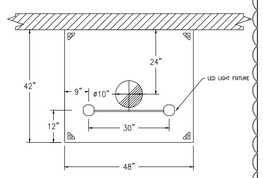
HOOD INFORMATION

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	APPLIANCE DUTY	DESIGN CFM/ft	TOTAL EXH. CFM	EXHAUST PLENUM RISERS							HOOD CONSTRUCTION	HOOD CONFIG.	
								WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.		END TO END	ROW
1	DISH	CLASS 2	48"	NA	DISH	150	600			4"	10"	600	1100	-0.25"	304 SS	ALONE	ALONE

HOOD OPTIONS

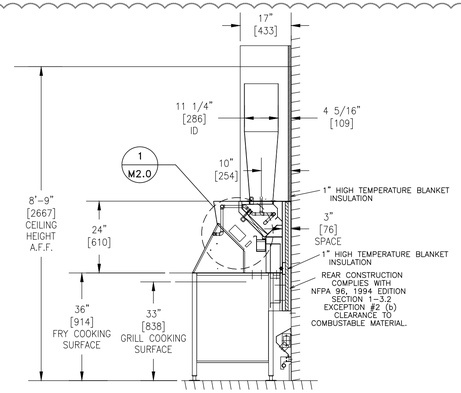
HOOD NO.	TAG	OPTION
1	DISH	FASCIA PANEL 14.00" HIGH FRONT, LEFT, RIGHT (FASCIA HEIGHT INCREASES FOR TALLER CEILING)

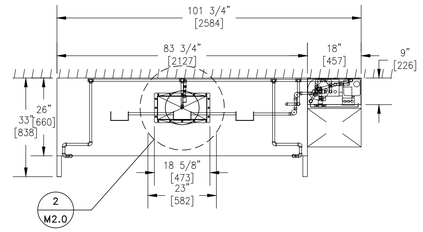


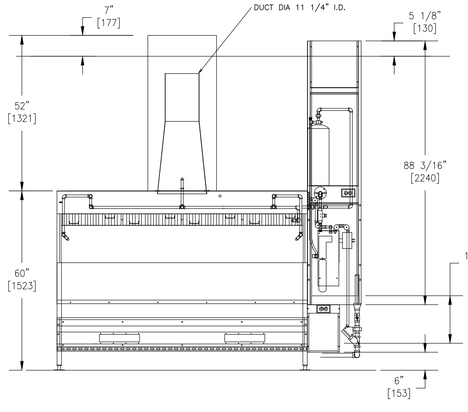


KITCHEN EXHAUST HOOD (TYPE II)

TAG: KH-4 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
N.T.S.



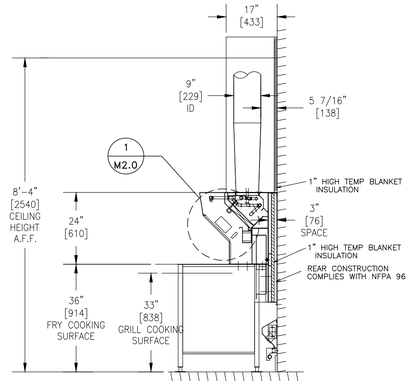


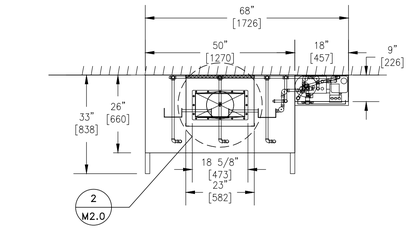


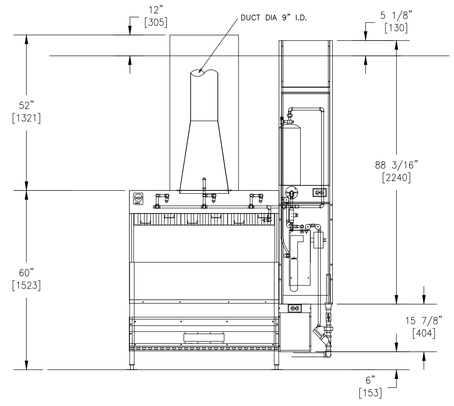
KITCHEN EXHAUST HOOD (TYPE I)

TAG: KH-1 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: ½"=1'-0"

1



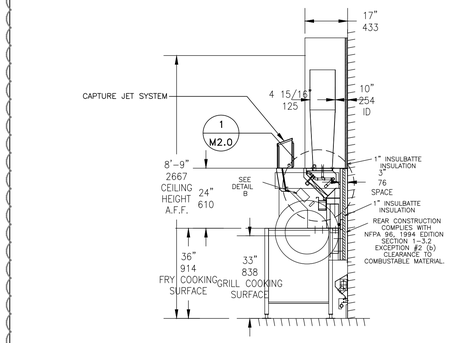


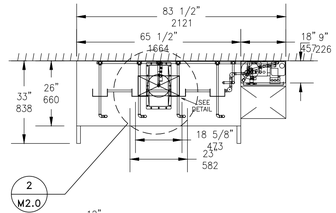


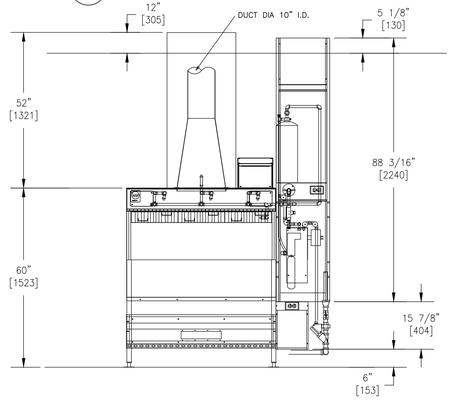
KITCHEN EXHAUST HOOD (TYPE I)

TAG: KH-2 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: ½"=1'-0"

1







KITCHEN EXHAUST HOOD

TAG: KH-3 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: ½"=1'-0"

1

DRAWING NOTES

1. 16 GA. STAINLESS STEEL MATERIAL USED FOR HOOD CONSTRUCTION
2. FILTER BAFFLE:
   UL FILE R14372, VOL. 1, SEC. 1
   UL CONTROL NUMBER 5L65
   MEA-446-92-M
3. EXHAUST HOOD:
   UL FILE MH12755, VOL. 4
   UL CONTROL NUMBER 78L1
4. UTILITY CHASE AND RACEWAY:
   UL FILE E163328, VOL.1, SEC.3
5. HIGH TEMP GASKET:
   UL FILE MH12755, VOL. 2, SEC. 1, ILL. 9
6. HOOD CONSTRUCTION COMPLIES WITH NSF STANDARD 2
7. HOOD PERFORMANCE TESTED IN ACCORDANCE WITH UL 710
8. UL 300 AND NFPA 17A COMPLIANT R-102 WET CHEMICAL SYSTEM INCLUDED WITH HOOD INSTALLATION
9. ANSUL CONNECTIONS AND STARTUP BY APPROVED ANSUL REPRESENTATIVE
10. REFER E3.2 FOR HOOD/FAN INTERLOCK DETAILS
11. CAPTURE JET PLENUMS ARE TO BE ATTACHED WHEN CALLED OUT PER KITCHEN SCHEDULE.

MANUFACTURED BY H+K INTL. INC. 2200 SKYLINE DR. MESQUITE TX 75149
FOR McDONALD'S CORPORATION, CHICAGO IL 60607

EQUIP. ID. EXHAUST HOOD: UH SERIES
MANUF. ID. HKM SERIAL # XXXXXXX-00X
MANUF. EQUIP. ID. UHXXX MFG DATE 1 July, 2026

MINIMUM EXHAUST AIR FLOW

LENGTH OF HOOD	MINIMUM EXHAUST AIR FLOW CFM/FT (CU.M/M/M)
26" (660 mm)	128 (11.9)
34.5" (876 mm)	137 (12.8)
35" - 122" (889 - 3098 mm)	166 (15.5)
133.75" (3397 mm)	127 (11.8)

SUITABLE FOR USE OVER COMMERCIAL GAS OR ELECTRIC MEDIUM DUTY APPLIANCES

FILTER TYPE EXHAUST HOODS FOR COMMERCIAL KITCHENS

THESE HOODS ARE PROVIDED WITH THE FOLLOWING FEATURES:
* SUITABLE FOR USE WITH COOKING APPLIANCES DEVELOPING SURFACE TEMPERATURES UP TO 315.5°C (600°F).
* 1200MM) MAXIMUM CLEARANCE FROM COOKING SURFACE TO FRONT LOWER EDGE OF HOOD.
* 1200MM) MAXIMUM CLEARANCE FROM COOKING SURFACE TO REAR LOWER EDGE OF HOOD.
* 127MM) MINIMUM SIDE HOOD OVERHANG FROM EDGE OF COOKING SURFACE (S).
* (413MM) MAXIMUM FRONT HOOD SETBACK FROM EDGE OF COOKING SURFACE.
*HOODS ARE LISTED FOR DIRECT REAR MOUNTING ON A COMBUSTIBLE SURFACE.
*HOODS MAY BE INSTALLED WITH DUCTS DIRECTLY ON TOP OF HOOD ASSEMBLY.
*HOODS ARE EQUIPPED WITH GREASE FILTERS (BAFFLE TYPE) THAT ARE REMOVABLE OR INTEGRAL) MUST BE MOUNTED AT WHICH EVER ENDS) OF HOOD ARE ADJACENT TO THE GRILL(S).
*THESE EXHAUST HOODS ARE INTENDED FOR USE IN ACCORDANCE WITH NFPA 96,
BUILDING OFFICIAL CODE (BOCA), AND OTHER CODES SUCH AS THE
BASIC NATIONAL MECHANICAL CODE (BOCA), THE STANDARD MECHANICAL CODE (SBCCI), AND
THE UNIFORM MECHANICAL CODE (ICBO).

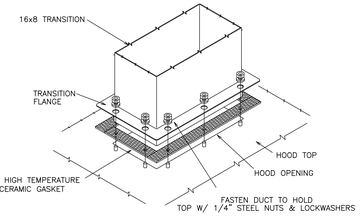
*** CONFORMS TO US STANDARD UL 710**
*** CERTIFIED TO CAN/CSA STANDARD NO. ULC-S646**

1

DETAIL

UL LABEL
SCALE: NONE

M2.0



DETAIL

HOOD CONNECTION
SCALE: NONE

2
M2.0

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC/Illumination/Plumbing/Power Distribution/Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010019
PROFESSIONAL ENGINEER
7/22/26

PREPARED FOR: McDonald's USA, LLC
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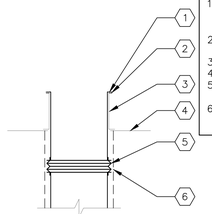
DRAWN BY	MES
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

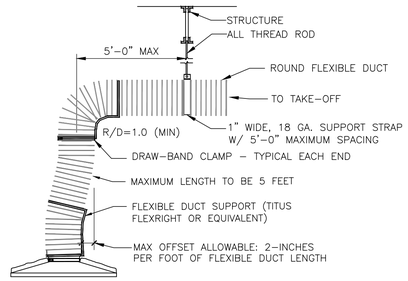
SITE ID: 024-1329
SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO.
JAWA 26-0041
M2.0
EXHAUST HOODS

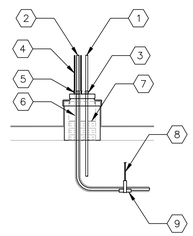


KEYED NOTES:
1. SHEET METAL DUCT DROP (SUPPLY, RETURN OR EXHAUST)
2. FOAM GASKET BETWEEN DUCT AND CURB
3. ROOF CURB
4. ROOF LINE
5. 6" FACE–TO–FACE CANVAS FLEXIBLE CONNECTION
6. 2" EXTERIOR INSULATION (SUPPLY AND RETURN)

DETAIL 1 M3.0
DUCT DROP INSTALLATION
SCALE: NONE



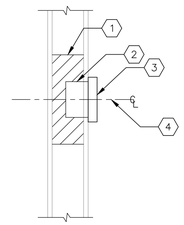
DETAIL 2 M3.0
DIFFUSER/GRILLE CONNECTION
SCALE: NONE



KEYED NOTES:
1. REFRIGERANT LIQUID LINE
2. REFRIGERANT SUCTION LINE WITH 1" THICK EXTERNAL FOAM INSULATION (ARMAFLEX BY ARMACELL OR EQUAL)
3. STAINLESS STEEL CLAMP
4. APPLY WEATHERPROOFING OVER FOAM INSULATION (ALUMAGUARD BY POLYGUARD OR EQUAL)
5. WRAP FOAM INSULATION OVER PIPE PORTAL NIPPLE AND STAINLESS STEEL CLAMP
6. RESTART FOAM INSULATION IMMEDIATELY AFTER PIPE PORTAL PENETRATION
7. INSULATE BOTTOM OF ROOF PORTAL CURB (MIN. R–19)
8. PIPE HANGER
9. LIGHT GAUGE GALVANIZED STEEL PROTECTIVE SHIELD

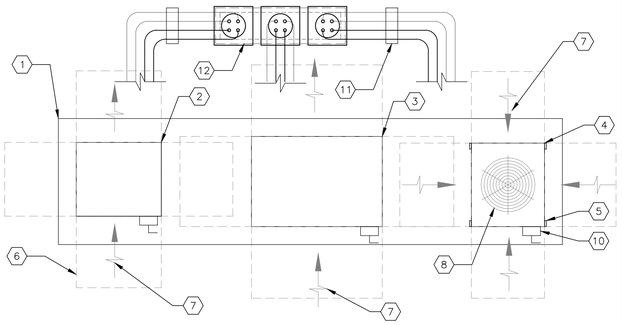
DETAIL 3 M3.0
REFRIGERANT PIPE INSTALLATION
SCALE: NONE

DETAIL 4 M3.0
NOT USED
SCALE: NONE



KEYED NOTES:
1. PROVIDE BATT INSULATION FOR TEMPERATURE SENSORS INSTALLED IN HOLLOW CAVITY WALLS
2. 2x4 ELECTRICAL BOX
3. SENSOR (TEMPERATURE, HUMIDITY OR CO2)
4. MOUNT SENSOR(S) BETWEEN 4'–0" TO 4'–6" A.F.F.

DETAIL 5 M3.0
REMOTE SENSOR INSTALLATION
SCALE: NONE

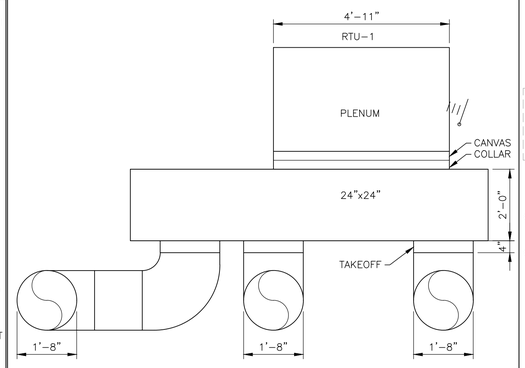


KEYED NOTES:
1. 180"Lx43"Wx14"H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL
2. 28⅛"Lx24¾"Wx19¾"H CONDENSING UNIT (COOLER).
3. 43⅞"Lx30½"Wx29¾"H CONDENSING UNIT (FREEZER).
4. 29"Lx24½"Wx34"H CONDENSING UNIT (MULTIPLEX).
5. FASTEN CONDENSING UNIT TO TOP OF PLATFORM AND SEAL FASTENER PENETRATIONS WITH UV RESISTANT SEALANT
6. OUTLINE OF SERVICE CLEARANCE EXTENDING 3'–0" FROM CONDENSING UNIT ON ALL SIDES
7. CONDENSER AIR INTAKE
8. CONDENSER FAN OUTLET ON TOP OF UNIT
9. CONDENSER FAN OUTLET ON SIDE OF UNIT
10. DISCONNECT SWITCH FURNISHED WITH UNIT
11. PROVIDE PIPE SUPPORT AS REQUIRED (TREATED LUMBER IS NOT ACCEPTABLE)
12. MULTIPLE PIPE PORTAL MANUFACTURED BY RPS OR EQUAL

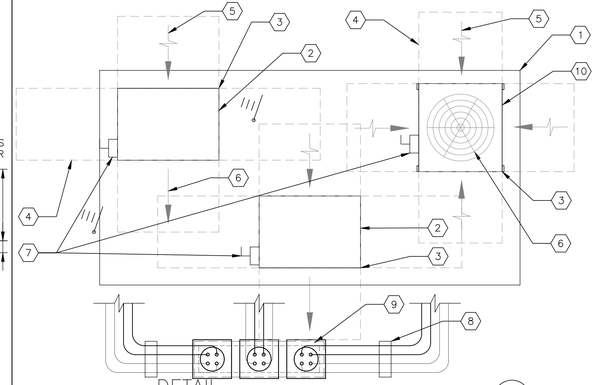
CONDUIT SIZES: (PER CONDENSING UNIT
(1) ¾" POWER
(1) ¾" CONTROL

REFRIGERANT PIPING SIZES:
SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RECOMMENDED REFRIGERANT PIPE SIZING

DETAIL 6 M3.0
REMOTE CONDENSER UNITS (CU–4, CU–5 & CU–6)
SCALE: ½"=1'–0"



DETAIL 7 M3.0
VIEW TOWARDS REAR OF KITCHEN AT DUCT DROPS
SCALE: ½"=1'–0"

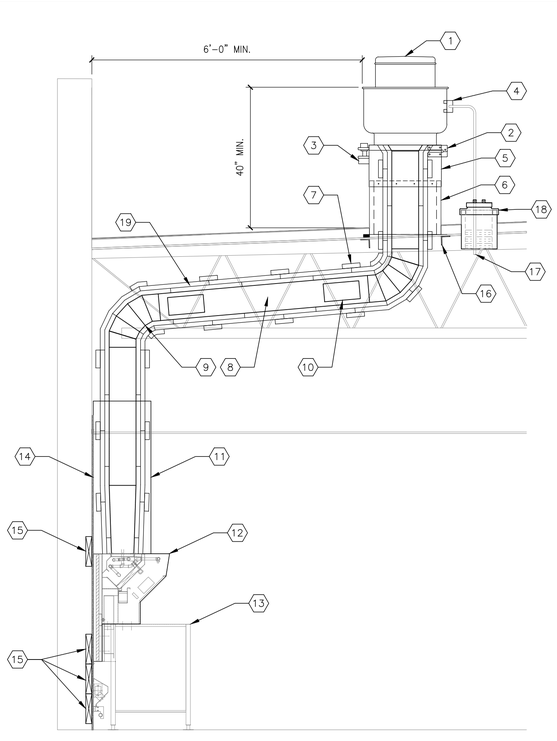


KEYED NOTES:
1. 141"x72"x14"H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL
2. 34"x24⅛"x25¾"H CONDENSING UNIT
3. FASTEN CONDENSING UNIT TO TOP OF PLATFORM AND SEAL FASTENER PENETRATIONS WITH UV RESISTANT SEALANT
4. OUTLINE OF SERVICE CLEARANCE EXTENDING FROM CONDENSING UNIT ON ALL SIDES
5. CONDENSER AIR INTAKE
6. CONDENSER FAN OUTLET
7. DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR
8. PROVIDE PIPE SUPPORT AS NECESSARY (TREATED LUMBER IS NOT ACCEPTABLE)
9. MULTIPLE PIPE PORTAL MANUFACTURED BY RPS OR EQUAL
10. 29½"x28"x38"H CONDENSING UNIT

CONDUIT SIZES: (PER CONDENSING UNIT)
(1) ¾" POWER
(1) ¾" CONTROL

REFRIGERANT PIPING SIZES:
(PER CONDENSING UNIT)
ICE MACHINE – ½" LIQUID, ¾" SUCTION
(CU–3 CONDENSING UNIT)
ICE MACHINE – ⅜" LIQUID, ½" SUCTION

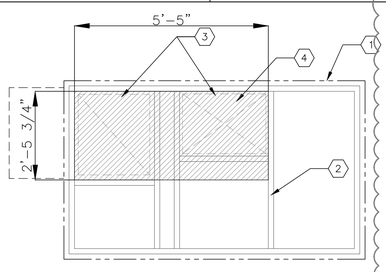
DETAIL 7B M3.0
REMOTE CONDENSER UNIT (CU–1, CU–2 & CU–3)
SCALE: ½"=1'–0"



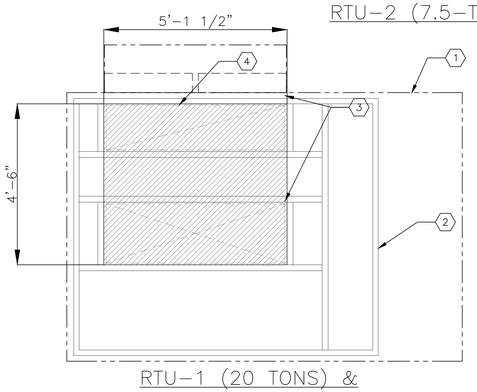
KEYED NOTES:
1. UPBLAST EXHAUST FAN (SEE EXHAUST FAN SCHEDULE)
2. HINGED CURB CAP FOR CLEANING ACCESS (FURNISHED WITH FAN)
3. GREASE TRAP (FURNISHED WITH FAN)
4. NEMA 3R DISCONNECT SWITCH (FURNISHED WITH FAN)
5. 12" HIGH CURB EXTENSION (FURNISHED WITH FAN)
6. 18" HIGH CURB (FURNISHED WITH FAN)
7. TWO (2) LAYERS OF 1½" THICK DUCT WRAP TO MEET ASTM E2336 INSTALLED PER MANUFACTURER'S INSTRUCTIONS (SEE MECHANICAL NOTES FOR INSULATION SPECIFICATION)
8. 16 GAUGE BLACK IRON (CARBON STEEL) OR 18 GAUGE STAINLESS STEEL DUCTWORK WELDED LIQUID–TIGHT
9. 5–GORE BLACK IRON (CARBON STEEL) RADIUS ELBOW
10. 12"x6" ACCESS DOOR AT ALL CHANGES IN DIRECTION
11. STAINLESS STEEL FASCIA PANEL TO PROTECT DUCTWORK AND INSULATION
12. BACKSHELF TYPE EXHAUST HOOD (SEE KITCHEN EXHAUST HOOD SCHEDULE)
13. COOKING APPLIANCE (SEE KITCHEN DRAWINGS)
14. REAR WALL CONSTRUCTION SHALL CONSIST OF CERAMIC TILE OR MIN. 22 GAUGE STAINLESS STEEL OVER ⅝" TYPE X GYPSUM BOARD OR ½" CEMENT BOARD FROM FLOOR TO CEILING AND EXTENDING 24" TO EACH SIDE OF THE HOOD INSTALLED ON NON–COMBUSTIBLE WALL (REFER TO SHEET A1.0 FOR MORE INFORMATION.
15. 2x10 LIGHT GAUGE STEEL FOR SUPPORT BLOCKING FOR HOOD AND RACEWAY (COORDINATE INSTALLATION WITH HOOD INSTALLER)
16. STRUCTURAL FRAMING FOR ROOF OPENING (SEE STRUCTURAL DRAWINGS)
17. TRANSITION TO FLEXIBLE CONDUIT UNDER ROOF PENETRATION WHERE ALLOWED BY CODE.
18. ROOF PIPE PORTAL, RPS–N18(1) RC–2A 12x12x11H.
19. ¼" PER FOOT SLOPE PITCHED BACK TOWARDS THE HOOD.

SECTION 8 M3.0
KITCHEN EXHAUST HOOD INSTALLATION
SCALE: ½"=1'–0"

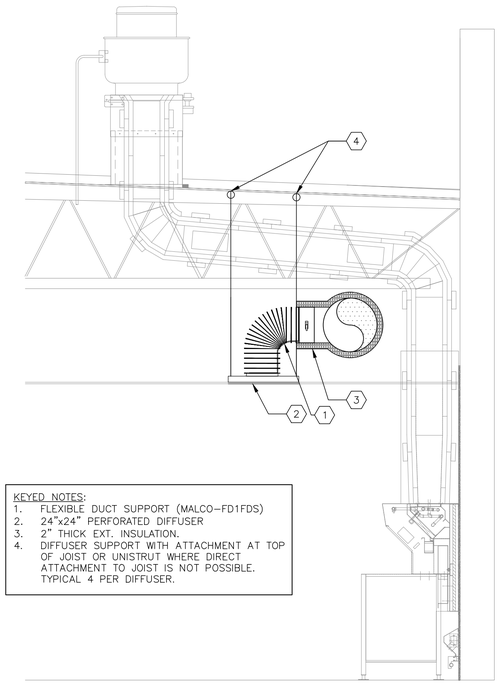
KEYED NOTES:
1. OUTLINE OF ROOFTOP UNIT
2. ROOF CURB
3. SUPPLY AND RETURN AIR DUCT DROPS
4. ROOF OPENING



RTU–2 (7.5–TONS)



RTU–1 (20 TONS) &
RTU–3 (15–TONS)
DETAIL 9 M3.0
ROOF OPENINGS
SCALE: ½"=1'–0"



KEYED NOTES:
1. FLEXIBLE DUCT SUPPORT (MALCO–FD1FDS)
2. 24"x24" PERFORATED DIFFUSER
3. 2" THICK EXT. INSULATION.
4. DIFFUSER SUPPORT WITH ATTACHMENT AT TOP OF JOIST OR UNISTRUT WHERE DIRECT ATTACHMENT TO JOIST IS NOT POSSIBLE. TYPICAL 4 PER DIFFUSER.

SECTION 10 M3.0
SUPPLY (S–1) PLENUM INSTALLATION
SCALE: ½"=1'–0"

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC/Illumination/Plumbing/Power Distribution/Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010037744
PROFESSIONAL ENGINEER
7/22/26

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PREPARED FOR:
McDonald's USA, LLC
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DRAWN BY: MES
STD ISSUE DATE: 2026
REVIEWED BY: JAW
DATE ISSUED: 04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
SITE ID: 024–1329

JAWA 26–0041

SHEET NO.: M3.0
DETAILS

MECHANICAL NOTES

GENERAL:
1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

2. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.

3. ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE McDONALD'S PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE McDONALD'S PROJECT MANUAL SHALL CONTACT THE McDONALD'S AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE McDONALD'S SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.

4. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

5. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.

6. PRIOR TO BUILDING TURNOVER, A COMPLETE START-UP, TEST, ADJUST AND BALANCE SHALL BE PERFORMED ON ALL MECHANICAL SYSTEMS. THIS WORK SHALL BE PERFORMED BY A CERTIFIED TEST AND BALANCE CONTRACTOR. A CERTIFIED TEST AND BALANCE CONTRACTOR CAN BE FOUND BY VISITING:
   HTTP://WWW.AABCHQ.COM/DIRECTORY
   HTTP://WWW.NEBB.ORG/DIRECTORY.HTM
   HTTP://WWW.TABBCERTIFIED.ORG/SITE/CONTENT/CONTRACTORS/SEARCH

7. UPON COMPLETION OF THE PUNCHLIST, THE MECHANICAL CONTRACTOR AND TEST AND BALANCE CONTRACTOR SHALL SUBMIT REDLINED OR AS-BUILT DRAWINGS ALONG WITH THE TEST AND BALANCE REPORT AND ALL EQUIPMENT OPERATION AND MAINTENANCE MANUALS TO THE McDONALD'S AREA CONSTRUCTION MANAGER. A MINIMUM OF TWO (2) COPIES SHALL BE PROVIDED, ONE (1) FOR REGIONAL RECORDS AND ONE (1) FOR THE RESTAURANT.

8. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.

VENTILATION SYSTEMS:
1. ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SMACNA STANDARDS.

2. ALL DUCTWORK DIMENSIONS ARE INTERNAL FREE AREA DIMENSIONS AND SIZED FOR 0.08" W.C. PER 100 FT. OF DUCT.

3. ALL SHEET METAL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA TABLES FOR 2" W.C. AND SHALL BE SUPPORTED WITH AN APPROVED HANGER AT INTERVALS NOT EXCEEDING 10 FT.

4. ALL DUCT DROPS INTO THE BUILDING SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO ISOLATE THE DUCTWORK SYSTEM FROM NOISE AND VIBRATION. FLEXIBLE CONNECTIONS SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND LISTED AS CLASS 0 OR CLASS 1.

5. ALL DUCT DROPS INTO THE BUILDING SHALL BE OFFSET AS NECESSARY TO ALLOW FOR THE CLEAR INSTALLATION OF THE EXTERNAL DUCTWORK INSULATION.

6. ALL DUCTWORK BRANCHES THAT SERVE A SINGLE DIFFUSER SHALL BE SUPPLIED WITH A VOLUME DAMPER FOR BALANCING. BRANCHES THAT SERVE MULTIPLE DIFFUSERS, THE BALANCING IS HANDLED VIA REMOTE DAMPER INSTALLED NEAR THE DIFFUSER. REFER TO M1.2 FOR DAMPER LOCATIONS. VOLUME DAMPER SHALL HAVE A 2" OFFSET TO ACCOMMODATE EXTERNAL INSULATION.

7. TAKE-OFFS FROM RECTANGULAR TO ROUND DUCT SHALL BE DUCTMATE STRAIGHT-SIDED OR CENTER HIGH-EFFICIENCY TAKE-OFFS WITH A 2" DAMPER STAND-OFF TO ACCOMMODATE FOR EXTERNAL INSULATION.

8. ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS SHALL BE SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), TAPES, ETC. ALL SEALANT MATERIALS SHALL BE LISTED IN ACCORDANCE WITH UL 181A OR 181B.

9. ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED WITHIN THE CEILING SPACE SHALL BE EXTERNALLY INSULATED. INSULATION SHALL BE 2" THICK MICROLITE FSK-100 BY JOHNS MANVILLE OR EQUAL.

10. ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED OUTSIDE OF THE BUILDING SHALL BE INTERNALLY LINED WITH A 1" THICK FIBERGLASS (MIN. R-4.2) AND EXTERNALLY INSULATED WITH A 2" THICK RIGID POLYSTYRENE, POLYURETHANE OR POLYISOCYANURATE BOARD (MIN. R-8 FOR CLIMATE ZONES 1 THROUGH 4), OR A 3" THICK (MIN R-12 FOR CLIMATE ZONES 5 THROUGH 8). INTERNAL FIBERGLASS INSULATION SHALL BE LINATEX BY JOHNS MANVILLE OR EQUAL. EXTERNAL RIGID BOARD INSULATION SHALL BE THERMAPINK BY OWENS CORNING OR EQUAL.

11. FOR APPLICABLE SITUATIONS OR PLAYPLACE ADDITIONS: ALL EXPOSED SPIRAL DUCTWORK SHALL BE INTERNALLY INSULATED TO PREVENT CONDENSATION (MIN. R-4.3). INTERNAL INSULATION SHALL BE 1" THICK SPIRACOUSTIC PLUS BY JOHNS MANVILLE OR EQUAL.

12. ALL DUCTWORK PENETRATIONS THROUGH FIRE-RATED WALLS, BARRIERS OR PARTITIONS SHALL BE PROTECTED WITH A FIRE DAMPER. THE PERIMETER OF THE FIRE DAMPER SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING MATERIAL.

13. ALL EXTERIOR SHEET METAL DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH AN APPROVED WEATHERPROOFING MATERIAL TO PROTECT AGAINST WATER PENETRATION AND CORROSION. SIDES AND TOP OF EXTERNAL WEATHERPROOFING SHALL BE ALUMAGUARD 60 MIL UV BARRIER BY POLYGUARD OR EQUAL. BOTTOM OF EXTERNAL WEATHERPROOFING SHALL BE VAPORGUARD 5 MIL MEMBRANE BY POLYGUARD OR EQUAL.

14. ALL FLEXIBLE DUCTWORK, METALLIC AND NONMETALLIC, SHALL CONFORM TO THE FOLLOWING:
   A. 2" THICK INSULATION (R-6.0) SEE NOTE#9 AND TABLE(S) BELOW:

DUCT LOCATION: UNCONDITIONED SPACE			CLIMATE ZONES 1 THROUGH 8
DUCTWORK CLASSIFICATION	PRESSURE	SEAL CLASS	INSULATION
SUPPLY	2.00" W.C.	A	TYPE A (R-6)
RETURN	-2.00" W.C.	A	TYPE A (R-6)
EXHAUST	-2.00" W.C.	A	(*)TYPE A (R-6)
HANGER SUPPORTS	EVERY 6 FT.		1" TYPE B

DUCT LOCATION: EXTERIOR (INCLUDES ATTICS ABOVE INSULATED CEILINGS AND CRAWL SPACES.			CLIMATE ZONES 1 THROUGH 4	CLIMATE ZONES 5 THROUGH 8
DUCTWORK CLASSIFICATION	PRESSURE	SEAL CLASS	INSULATION	INSULATION
SUPPLY	2.00" W.C.	A	TYPE A (R-8)	TYPE A (R-12)
RETURN	-2.00" W.C.	A	TYPE A (R-8)	TYPE A (R-12)
EXHAUST	-2.00" W.C.	A	(*)TYPE A (R-8)	(*)TYPE A (R-12)
HANGER SUPPORTS	EVERY 6 FT.		1" TYPE B	

   (*) EXHAUST DUCTWORK IS ONLY REQUIRED TO BE INSULATED WITHIN 2-FEET OF ROOF PENETRATION. REFER TO "COMMERCIAL KITCHEN EXHAUST SYSTEMS", NOTE#4 FOR FIRE WRAPPING REQUIREMENTS ON KITCHEN GREASE DUCTWORK.

   B. INTEGRAL VAPOR BARRIER
   C. LISTED AND LABELED UL 181, CLASS 0 OR CLASS 1
   D. INSTALLED IN ACCORDANCE WITH:
      i. SMACNA STANDARDS,
      ii. AIR DIFFUSION COUNCIL INSTALLATION GUIDELINES, AND/OR
      iii. MANUFACTURER'S INSTALLATION INSTRUCTIONS

14. FLEXIBLE DUCTWORK SHALL NOT PENETRATE WALLS. SHEET METAL DUCTWORK IS REQUIRED AT ALL FIRE-RATED AND DRAFTSTOP WALL PENETRATIONS.

15. ALL COVERINGS, LININGS AND ADHESIVES (TAPES, ETC.) SHALL HAVE A FLAME-SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE-DEVELOPED INDEX NOT GREATER THAN 50.

16. DUCT-MOUNTED SMOKE DETECTORS, PROVIDED BY ROOFTOP UNIT MANUFACTURER, SHALL BE INSTALLED IN SYSTEMS WITH DESIGN CAPACITY GREATER THAN 2,000 CFM. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF SMOKE DETECTORS. DUCT-MOUNTED SMOKE DETECTORS ARE NOT REQUIRED WHEN THE BUILDING IS PROTECTED THROUGHOUT BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM WHERE THE FIRE ALARM SYSTEM IS DESIGNED TO SHUT DOWN THE ROOFTOP UNITS.

17. ALL SUPPLY AIR DIFFUSERS SHALL BE INSULATED TO PREVENT CONDENSATION.

18. ALL AIR DEVICES LOCATED IN DRYWALL CEILINGS SHALL BE SUPPLIED WITH AN INTEGRAL VOLUME DAMPER ACCESSIBLE FROM THE AIR DEVICE FACE TO FACILITATE BALANCING.

19. ALL OUTDOOR AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY SOURCE OF CONTAMINATION SUCH AS EXHAUST FANS, PLUMBING VENTS, WATER HEATER FLUES, ETC. WHERE A CONTAMINANT SOURCE IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE INTAKE OPENING SHALL BE LOCATED A MINIMUM OF 2 FT. BELOW THE CONTAMINANT SOURCE.

20. ALL ROOFTOP CONDENSING UNITS THAT DISCHARGE HORIZONTALLY SHALL BE ORIENTED SUCH THAT THE DISCHARGE DOES NOT BLOW IN THE DIRECTION OF AN OUTDOOR AIR INTAKE.

21. ALL ROOFTOP UNITS USE R-454B, REFRIGERANT CLASSIFICATION 2A.

COMMERCIAL KITCHEN EXHAUST SYSTEMS:
1. ALL METAL DUCTWORK USED FOR THE CONVEYANCE OF GREASE-LADEN AIR SHALL BE CONSTRUCTED OF MINIMUM 18 GAUGE STAINLESS STEEL OR 16 GAUGE CARBON STEEL (BLACK IRON).

2. ALL GREASE EXHAUST DUCTWORK JOINTS SHALL BE EITHER TELESCOPING OR BELL TYPE. BUTT-WELDED JOINTS ARE PROHIBITED.

3. ALL GREASE EXHAUST DUCTWORK SEAMS AND JOINTS SHALL BE CONTINUOUSLY WELDED WATER-TIGHT ON THE EXTERNAL SURFACE OF THE DUCT SYSTEM. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER.

4. ALL GREASE EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED WITH A ASTM E2336 LISTED AND LABELED GREASE DUCT ENCLOSURE SYSTEM. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

5. ACCESS PANELS SHALL BE PROVIDED AT ALL CHANGES IN DIRECTION OF THE GREASE EXHAUST DUCTWORK SYSTEM. ACCESS PANELS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSULATION MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL BE LABELED AS FOLLOWS: "ACCESS PANEL - DO NOT OBSTRUCT".

6. ALL HORIZONTAL GREASE EXHAUST DUCTWORK SHALL BE INSTALLED WITH A MINIMUM ¼" PER FOOT SLOPE AND SHALL BE PITCHED BACK TOWARD THE HOOD.

7. UPBLAST KITCHEN EXHAUST FANS SHALL BE LOCATED A MINIMUM OF 6 FT. FROM ANY PARAPET WALL OR ADJACENT STRUCTURE AND SHALL TERMINATE A MINIMUM OF 40 INCHES ABOVE THE FINISHED ROOFING MATERIAL.

REFRIGERANT PIPING:
1. ALL REFRIGERATION WORK SHALL BE PERFORMED BY A CERTIFIED REFRIGERATION CONTRACTOR.

2. ALL REFRIGERANT PIPING SHALL BE SEAMLESS COPPER TUBING OF TYPE L IN ACCORDANCE WITH ASTM B 88 AND ALL JOINTS SHALL BE SOLDERED.

3. ALL REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH A MINIMUM 1" FOAM PIPE INSULATION. PIPE INSULATION INSTALLED OUTDOORS SHALL BE PROTECTED WITH AN APPROVED WEATHERPROOFING MATERIAL.

4. ALL SUSPENDED REFRIGERANT PIPING SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
COPPER TUBING ≤1¼"	6 FT.	10 FT.
COPPER TUBING ≥1½"	10 FT.	10 FT.

5. ALL REFRIGERANT PIPING SHALL BE SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

6. PRE-CHARGED LINESETS ARE NOT PERMITTED AS LINES WILL MOST LIKELY NEED TO BE CUT TO FIT THE APPLICATION AND REFRIGERANT WILL NEED TO BE RECLAIMED.

7. ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.

8. ALL REFRIGERANT PIPING SYSTEMS SHALL BE PRESSURE TESTED FOR LEAKS PRIOR TO START-UP. ALL LEAKS SHALL BE REMEDIED PRIOR TO BUILDING TURNOVER.

9. ALL PIPING SHALL MEET MINIMUM INSULATION THICKNESS PER THE TABLE BELOW:

PIPING	MINIMUM INSULATION THICKNESS (IN INCHES) PER NOMINAL PIPE OR TUBE SIZE				
NOMINAL PIPE SIZE	<1	1 TO 1.5	1.5 TO <4	4 TO <8	≥8
LIQUID (REFRIGERATION) (<40°F)	0.5	1.0	1.0	1.0	1.5
SUCTION (REFRIGERATION) (<40°F)	0.5	1.0	1.0	1.0	1.5

CO2 DETECTION EQUIPMENT:
1. THE CO2 DETECTOR SHALL BE HARD-WIRED TO PREVENT TAMPERING AND SHALL BE INSTALLED AT 12" A.F.F. WITHIN A 5 FT. RADIUS OF THE CO2 STORAGE TANKS.

2. ONE (1) AUDIBLE AND ONE (1) VISUAL ALARM SHALL BE INSTALLED A MINIMUM OF 7 FT. A.F.F., IN PLAIN SIGHT IN THE SAME ROOM AS THE CO2 STORAGE TANKS.

3. ONE (1) AUDIBLE AND ONE (1) VISUAL ALARM SHALL BE INSTALLED A MINIMUM OF 7 FT. A.F.F., AT THE BACK OF THE KITCHEN AND IN PLAIN SIGHT FROM THE MAIN SIDE OF THE PREP LINE.

4. THE CO2 EXTERIOR STROBE SHALL BE INSTALLED AS SHOWN ON SHEET A2.0, (DETAIL 2) AND ON SHEET E1.1. THE INSIDE AUDIBLE AND VISUAL ALARM SHALL BE INSTALLED INSIDE THE CO2 CLOSET, AND IN THE SUPPORT/BACK-OF-THE HOUSE LOCATION AS SHOWN ON SHEETS E1.1 AND E3.0.

CONDENSATE PIPING:
13. CONDENSATE PIPING SHALL BE GALVANIZED STEEL, COPPER OR PVC.

14. PVC PIPE SHALL BE PAINTED WITH WATER BASED LATEX PAINTING TO RESIST DEGRADATION FROM ULTRAVIOLET EXPOSURE.

15. PIPE SUPPORTS SHALL BE RPS MODEL PMP-2 OR EQUAL. QUANTITY AS REQUIRED DEPENDANT UPON PIPING MATERIAL.

16. PIPING SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
COPPER PIPE	12 FT.	10 FT.
GALVANIZED STEEL	12 FT.	15 FT.
PVC	4 FT.	15 FT.

17. CONDENSATE PIPING SHALL SLOPE A MINIMUM OF ⅛" PER FOOT.

18. CONDENSATE PIPING SHALL BE SIZED BASED ON THE FOLLOWING:

TOTAL TONS SERVED BY PIPE	MINIMUM PIPE SIZE
<20 TONS	¾"
>20 TONS, <40 TONS	1"
>40 TONS, <125 TONS	1½"

MECHANICAL & PLUMBING COMMISSIONING

1. MECHANICAL & PLUMBING ENGINEER OF RECORD: REVIEW IECC CHAPTER 4, SECTION C408.2 FOR MECHANICAL SYSTEMS AND SERVICE WATER-HEATING SYSTEM COMMISSIONING AND COMPLETION REQUIREMENTS. PROJECTS EXCEEDING THE HEATING AND COOLING CAPACITY THRESHOLDS IN SECTION C408.2 SHALL PROVIDE DOCUMENTATION OF A COMPLETED COMMISSIONING PLAN PREPARED BY A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY. ALL REQUIRED COMMISSIONING DOCUMENTATION SHALL BE PROVIDED TO THE OWNER AND MADE AVAILABLE TO THE AHJ UPON REQUEST.

LEGEND

TS	TEMPERATURE SENSOR
ATS	AVERAGING TEMPERATURE SENSOR
CO2	CO2 SENSOR FOR ROOFTOP UNIT DEMAND CONTROL VENTILATION
HS	HUMIDITY SENSOR
T	THERMOSTAT
2	SMOKE DETECTOR
KH 2	EQUIPMENT TAG
R-1 / 1750 CFM / 18"ø	DIFFUSER INFORMATION LINE 1: TAG LINE 2: AIRFLOW LINE 3: NECK SIZE
	SUPPLY AIR DUCT (VERTICAL)
	RETURN OR EXHAUST AIR DUCT (VERTICAL)
	ROUND DUCT (VERTICAL)
SSC	STEADY-STATE SPEED CONTROLLER
	PLAQUE DIFFUSER (SHADED AREA DESIGNATES BLANK-OFF PANEL LOCATION)
	LINEAR SLOT DIFFUSER
	LOUVERED FACE DIFFUSER
	CEILING-MOUNTED EXHAUST FAN
	SPIN-IN COLLAR WITH VOLUME DAMPER
	VOLUME DAMPER
	FLEXIBLE DUCTWORK
12"ø	SHEET METAL DUCTWORK W/DIA. SIZE
	PERFORATED FACE DIFFUSER
	SHEET METAL TEE WITH CAP

ABBREVIATIONS

ACM	AREA CONSTRUCTION MANAGER
B.J.	BELOW JOISTS
BSI	BEVERAGE SYSTEM INSTALLER
DCV	DEMAND CONTROL VENTILATION
E.A.	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
FAC	FIRE ALARM CONTRACTOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
I.D.	INSIDE DIMENSION
KEI	KITCHEN EQUIPMENT INSTALLER
KES	KITCHEN EQUIPMENT SUPPLIER
M.A. (S)	MIXED AIR - SUMMER
M.A. (W)	MIXED AIR - WINTER
MC	MECHANICAL CONTRACTOR
O.A.	OUTDOOR AIR
O.D.	OUTSIDE DIMENSION
O/O	OWNER/OPERATOR
PC	PLUMBING CONTRACTOR
R.A.	RETURN AIR
RC	REFRIGERATION CONTRACTOR
S.A.	SUPPLY AIR
S.P.	STATIC PRESSURE
MC	TEST AND BALANCE CONTRACTOR

BY	DESCRIPTION	DATE	REV

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls
David W. Day
P.O. Box 1640
Anahuac, TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesignts.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2011019774
PROFESSIONAL ENGINEER
4/15/26

PREPARED FOR: McDonald's USA, LLC
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DRAWN BY	MES
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026
TITLE	2026 STANDARD BUILDING - BB20 4590-WOOD/WOOD
DESCRIPTION	WOOD BEARING WALLS WOOD ROOF TRUSS FRAMING
SITE ID	024-1329
SITE ADDRESS	SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

JAWA 26-0041

SHEET NO. M4.0
GENERAL NOTES

COORDINATION SCHEDULE

GENERAL REQUIREMENTS	FURNISH	INSTALL	FINAL CONNECTION	NOTES
MECHANICAL PERMIT	MC			1–3
HOT WORK (WELDING) PERMIT (IF APPLICABLE)	MC			1–3
REFRIGERATION PERMIT (IF APPLICABLE)	KES			1–3
PLUMBING PERMIT	PC			1–3
ELECTRICAL PERMIT	EC			1–3
FIRE SPRINKLER PERMIT (IF APPLICABLE)	FPC			1–3
FIRE ALARM PERMIT (IF APPLICABLE)	FAC			1–3
CONTRACTOR COORDINATION REQUIREMENTS				
HEATING & AIR–CONDITIONING				
ROOFTOP UNITS, INTAKE AND RELIEF	MCD CP	MC		1–5, 17, 22
ROOF CURBS	MCD CP	MC		1–3, 20, 22
GAS PIPING AND GAS PIPE KIT	PC	PC	PC	1–3, 14, 22–23
CONTROLS WIRING	MC	EC	EC	1–3, 19, 22, 24
POWER WIRING	EC	EC	EC	1–3, 19, 22, 24
CONDENSATE TRAP	MC	PC		1–3, 22–23
CONDENSATE PIPING (IF APPLICABLE)	PC	PC		1–3, 22–23
DUCT–MOUNTED SMOKE DETECTOR	MC	MC	EC	1–3, 22, 24
GENERAL EXHAUST SYSTEMS				
EXHAUST FANS	MCD CP	MC		1–3, 17, 22
ROOF CURBS	MCD CP	MC		1–3, 22
CONTROLS (WHERE APPLICABLE)	MC	EC	EC	1–3, 22, 24
POWER WIRING	EC	EC	EC	1–3, 22, 24
DUCTWORK AND ACCESSORIES				
GALVANIZED SHEET METAL DUCTWORK	MC	MC		1–3, 22
EXTERNAL INSULATION	MC	MC		1–3, 22
INTERNAL INSULATION (IF APPLICABLE)	MC	MC		1–3, 22
WEATHERPROOFING (IF APPLICABLE)	MC	MC		1–3, 22
SPIN–IN COLLARS	MC	MC		1–3, 22
FLEXIBLE DUCTWORK	MC	MC		1–3, 22
VOLUME/BALANCING DAMPERS	MC	MC		1–3, 22
FIRE DAMPERS (IF APPLICABLE)	MC	MC		1–3, 22
FIRESTOPPING (IF APPLICABLE)	MC	MC		1–3, 22
AIR DEVICES AND ACCESSORIES	MC	MC	MC	1–3, 7, 22, 28
PLUMBING SYSTEMS				
WATER HEATERS	MCD CP	PC	PC	1–3, 11–12, 23
HOT AND COLD WATER PIPE	PC	PC	PC	1–3, 23
VENTS AND INTAKES	PC	PC	PC	1–3, 23
THERMOSTATIC MIXING VALVE	PC	PC	PC	1–3, 23
POWER AND CONTROL WIRING	EC	EC	EC	1–3, 23–24
KITCHEN EXHAUST SYSTEMS				
McDONALD'S BACKSHELF EXHAUST HOODS	KES	KEI		1–3, 6, 22, 27
CANOPY EXHAUST HOODS (IF APPLICABLE)	KES	KEI		1–3, 6, 22, 27
BLACK IRON DUCTWORK	KES	KEI		1–3, 6, 22
STAINLESS STEEL DUCTWORK (IF APPLICABLE)	KES	KEI		1–3, 6, 22
ALUMINUM DUCTWORK (IF APPLICABLE)	KES	KEI		1–3, 6, 22
UL LISTED DUCT WRAP	MC	MC		1–3, 6, 22
FIRE–RATED DUCT ENCLOSURE (IF APPLICABLE)	GC	GC		1–3, 6, 20, 22
EXHAUST FANS	MCD CP	MC		1–3, 6, 17, 22
ROOF CURBS	MCD CP	MC		1–3, 6, 20, 22
CURB EXTENSIONS	MC	MC		1–3, 6, 22
CONTROLS (WHERE APPLICABLE)	EC	EC	EC	1–3, 6, 22, 24
POWER WIRING	EC	EC	EC	1–3, 6, 22, 24
FIRE SUPPRESSION SYSTEM	KES	KES	KES	1–3, 16, 22, 27
KITCHEN EQUIPMENT				
COOLER/FREEZER	KES	GC		1–3, 27
EVAPORATOR COILS	KES	MC		1–3, 27
CONDENSATE PIPING	PC	PC	PC	1–3, 23, 27
REMOTE CONDENSING UNIT (MAC)	KES	MC		1–3, 22, 27
ROOF CURBS	MC	MC		1–3, 22
REFRIGERANT PIPING	KES	MC	MC	1–3, 22, 27
POWER WIRING	EC	EC	EC	1–3, 22, 24, 27
CONTROL WIRING	EC	EC	EC	1–3, 24, 27
PIPE PORTALS	MC	MC		1–3, 22
ICE MACHINES	KES	KEI		1–3, 27
WATER SUPPLY PIPING	KES	KEI	BSI	1–3, 27
REMOTE CONDENSING UNITS	KES	MC		1–3, 22, 27
ROOF CURBS	MC	MC		1–3, 22, 27
REFRIGERANT PIPING	KES	MC	MC	1–3, 22, 27
POWER WIRING	EC	EC	EC	1–3, 22, 24, 27
CONTROL WIRING	KES	EC	EC	1–3, 24, 27
PIPE PORTALS	MC	MC		1–3, 22
GRILLS	KES	KES		1–3, 27
GAS PIPING (IF APPLICABLE)	PC	PC	PC	1–3, 23, 27
POWER WIRING	EC	EC	EC	1–3, 24, 27
CONTROL CABLE (6' CLAMSHELL ONLY)	MC	EC	EC	1–3, 23, 24, 27
FRYERS	KES	KES		1–3, 27
GAS PIPING (IF APPLICABLE)	PC	PC	PC	1–3, 23, 27
POWER WIRING	EC	EC	EC	1–3, 24, 27
3–COMPARTMENT SINK	KES	KES		1–3, 12, 27
FAUCETS AND PRE–RINSE SPRAYER	KES	KES		1–3, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
HAND SINKS	MCD CP	PC		1–3, 23, 27
FAUCET	MCD CP	PC		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
VEGETABLE SINK	KES	KES		1–3, 23, 27
FAUCET	KES	KES		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
WASHING MACHINE	KES	KES		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
WARE WASHER	KES	KES		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
MISCELLANEOUS ITEMS				
FIRE SPINKLER SYSTEMS	FPC	FPC	FPC	1–3, 15, 25
HVAC EQUIPMENT START–UP	MC			1–3, 22
TEST, ADJUST AND BALANCE HVAC SYSTEMS	TAB			1–3, 22
DOOR GRILLES (IF APPLICABLE)	MC	GC		1–3, 20, 22
ROOF/WALL OPENINGS	GC			1–3, 20–24
APPLIANCE BACKFLOW PREVENTION	KES/BSI	PC	PC	1–3, 23, 27
CO2 DETECTION SYSTEM	KES/BSI	EC/BSI	EC/BSI	1–3, 22, 27

NOTES:

1. THIS SCHEDULE IS INTENDED AS A GUIDE FOR THE WORK TO BE PERFORMED. ALL WORK SHALL BE COORDINATED BETWEEN THE McDONALD'S AREA CONSTRUCTION MANAGER AND ALL GC AND O/O SUBCONTRACTORS.
2. ONE (1) COPY OF THE DECOR PACKAGE DRAWINGS SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR AND EACH OF THE SUBCONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS TO INSURE THAT THEY HAVE RECEIVED THE DECOR PACKAGE DRAWINGS. 1
3. FOR ANY WORK NOT CLARIFIED IN THIS SCHEDULE OR IN THE NOTES AND SPECIFICATIONS, PLEASE CONSULT THE McDONALD'S CONSTRUCTION MANAGER FOR SCOPE OF WORK.
4. ALL ROOFTOP UNIT EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND THE KITCHEN EQUIPMENT SUPPLIER SHALL BE ON SITE AT THE SAME TIME FOR A SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED BETWEEN THE CONSTRUCTION MANAGER, MECHANICAL CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER.
5. ALL ROOFTOP UNITS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY EQUIPMENT. THE INSTALLATION OF STANDARD EFFICIENCY ROOFTOP UNITS IS PROHIBITED. PLEASE REFER TO THE LATEST EDITION OF IECC FOR HVAC EQUIPMENT PERFORMANCE REQUIREMENTS.
6. ALL KITCHEN EQUIPMENT REQUIRING EXHAUST SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND THE ENGINEER–OF–RECORD.
7. WHERE GYPSUM BOARD CEILINGS ARE INSTALLED, THE MECHANICAL CONTRACTOR SHALL SUPPLY DRYWALL MOUNTING FRAMES FOR LAY–IN TYPE DIFFUSERS.
8. ALL WORK SHOWN ON P1.6 DRAWING(S) SHALL BE COMPLETED BY THE BEVERAGE SYSTEM INSTALLER (OR K.E.S.) UNLESS OTHERWISE NOTED IN THE PLUMBING DRAWINGS.
9. ALL WORK ON P1.0 & P1.2 DRAWING(S) SHALL BE BY THE PLUMBING CONTRACTOR.
10. THE BEVERAGE SYSTEM INSTALLER FURNISHES, RUNS AND CONNECTS ALL FLEXIBLE WATER AND SYRUP LINES FOR ALL AFFECTED EQUIPMENT INCLUDING THE FOLLOWING:
    A. HOT CHOCOLATE
    B. COFFEE BREWER
    C. ICE MACHINE
    D. O.J.
    E. SODA TOWERS
11. NOT USED.
12. THE CONSTRUCTION MANAGER, PLUMBING CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE WHICH SOILED DISHWASHER (3–COMPARTMENT SINK) IS BEING INSTALLED IN THE RESTAURANT.
13. NOT USED.
14. NOT USED.
15. ALL FIRE PROTECTION DRAWINGS CONTAINED WITHIN THIS SET ARE STRICTLY FOR REFERENCE ONLY. FIRE SPRINKLER DRAWINGS SHALL BE DESIGNED AND PERMITTED BY A FIRE PROTECTION CONTRACTOR.
16. ALL R–102 WET CHEMICAL FIRE SUPPRESSION SYSTEMS FOR TYPE I HOODS SHALL BE DESIGNED AND INSTALLED BY A LOCAL ANSUL AGENT. THE USE OF DRY CHEMICAL SYSTEMS IS PROHIBITED. THE LOCAL ANSUL AGENT CONTRACT IS HANDLED THROUGH THE KITCHEN EQUIPMENT SUPPLIER.
17. ALL ROOFTOP UNITS AND EXHAUST FANS ARE SUPPLIED WITH A FACTORY–INSTALLED DISCONNECT SWITCH.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR REMOTE CONDENSING UNITS.
19. ALL ELECTRICAL CONDUITS FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.
20. WALK–IN COOLER AND WALK–IN FREEZER REFRIGERATION SYSTEMS SHALL MEET THE PERFORMANCE REQUIREMENTS OUTLINED IN THE LATEST EDITION OF IECC. MINIMUM ANNUAL WALK–IN ENERGY FACTOR (AWEF) PROVIDED BY EQUIPMENT MANUFACTURER IS DETERMINED IN ACCORDANCE WITH AHRI 1250.
21. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
22. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
23. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
24. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
25. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
27. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
28. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.
29. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.

AIR DEVICE SCHEDULE

TAG	MANUFACTURER	MODEL	BORDER	SIZE	COLOR	ACCESSORIES	NOTES
S–1A	CAPTIVEAIRE	DI–FUSE	LAY–IN	24x24	S.S	7	1,2
S–1B	CAPTIVEAIRE	DI–PSP	LAY–IN	24x24	S.S	7	1,2
S–2	TITUS	OMNI	LAY–IN	24x24	VARIES	4,6,7	1,6,7
	PRICE	SPD					
S–3	TITUS	OMNI	LAY–IN	12x12	VARIES	1,2,7	1,3,6
	PRICE	SPD					
S–4	TITUS	TBDI–80	LAY–IN	48" (2)1¼" SLOTS	VARIES	7	1,5,6
	PRICE	TBDI4					
R–1	TITUS	PAR	LAY–IN	24x24	VARIES	7	1,6,8
	PRICE	10					
R–2	TITUS	355RL	SURFACE MOUNT	4x12	WHITE	–	8
	PRICE	530					
E–1	TITUS	355RL	LAY–IN	12x12	WHITE	1,7	1,8
	PRICE	530					
DG–1	NGP	T–700–RX	SURFACE MOUNT	10x14	WHITE	–	8

ACCESSORIES:
1. COMBINATION DAMPER AND EQUALIZING GRID
2. PLASTER FRAME FOR DRYWALL CEILING INSTALLATION 1
3. (NOT USED)
4. BACKPAN INSULATION
5. (NOT USED)
6. BLANK–OFF PANEL AS SHOWN ON DUCTWORK PLAN
7. PLASTER FRAME MAY BE NECESSARY – COORDINATE WITH DECOR DRAWINGS

NOTES:
1. SEE PLAN FOR NECK SIZES.
2. CONTACT CAPTIVEAIRE FOR ORDERING: BARREWTT.LAW@CAPTIVEAIRE.COM 208.989.6947
3. PROVIDE 1" FIBERGLASS INSULATION FOR DIFFUSER BACKPAN
4. NOT USED
5. GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL 4 FT. T–BAR FOR DIFFUSER FRAMING
6. AIR DEVICE FINISH WILL VARY:
   * KITCHEN, STORAGE, RESTROOMS – WHITE
   * DINING ROOM, VESTIBULES – WHITE, BLACK OR PAINTABLE/PRIME COAT (COORDINATE FINAL COLOR WITH DECOR PLANS).
7. ADDITIONAL ACCESSORIES AND/OR ALTERNATE DIFFUSERS MAY BE REQUIRED. REFER TO DECOR DRAWINGS TO VERIFY.
8. DOOR GRILLE SHALL BE INSTALLED BY DOOR MANUFACTURER. GRILLE SHALL BE LOCATED 12" FROM BOTTOM OF DOOR

AIR CURTAIN SCHEDULE

TAG	MANUFACTURER	MODEL	SERVES	AIRFLOW	ELEC	ACCESS.	NOTES
AC 1	POWERED AIRE	MP 1–30E	CASH BOOTH	VARIABLE	MCA: 39.9 MOCP: 50 ½ HP	2,3,5,6	1–2
AC 2	POWERED AIRE	MP 1–30E	PRESENTER'S BOOTH	VARIABLE	MCA: 39.9 MOCP: 50 ½ HP	2,3,5,6	1–2
AC 3	POWERED AIRE	RBT 1–48	STORAGE ENTRANCE	2,559 CFM	MCA: 10 MOCP: 20 ¾ HP	1–4	1–2
AC 4	POWERED AIRE	RBT 1–36	REAR ENTRANCE	2,541 CFM	MCA: 10 MOCP: 20 ¾ HP	1–4	1–2
AC 5	POWERED AIRE	MP 1–30E	PRESENTER'S BOOTH	VARIABLE	MCA: 39.9 MOCP: 50 ½ HP	2,3,5,6	1–2

ACCESSORIES:
1. NSF LISTING
2. DOOR SWITCH
3. DELAY TIMER
4. 120V/1ø/60Hz
5. 208V/1ø/60Hz
6. 8 KW ELECTRIC HEAT

NOTES:
1. SET DELAY TIMER TO 30 SECONDS
2. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH

CONTROLS

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL
T	24V THERMOSTAT (ROOFTOP UNITS)	–	– 1
	120V THERMOSTAT (COMPUTER CLOSET)	HONEYWELL	T651A3018
TS	REMOTE TEMPERATURE SENSOR	–	–
ATS	REMOTE AVERAGING TEMPERATURE SENSOR	–	–
HS	REMOTE HUMIDITY SENSOR	–	–
	BULK CO2 DETECTION SYSTEM	LOGICO2, ANALOX	–

NOTES:
1. FOR TSTAT, TS, HS AND ATS INFORMATION, REFER TO E4.1
2. TO ORDER HONEYWELL EQUIPMENT CALL (800)575–4841
3. SEE KITCHEN DRAWINGS FOR BULK CO2 DETECTION LOCATIONS
4. NO SUBSTITUTIONS PERMITTED FOR BULK CO2 DETECTION SYSTEM MANUFACTURERS

KITCHEN HOOD SCHEDULE

TAG	SERVED BY	MANUFACTURER	MODEL	NOTES	AIRFLOW CFM	AIRFLOW CFM/LF	FILTERS QTY/SIZE	FILTERS FPM
KH 1	EXHAUST FAN (EF–1)	FRANKE H&K	UH–83	1–4	1000	166	(5)10x20	250
KH 2	EXHAUST FAN (EF–2)	FRANKE H&K	UH–50	1–4	575	173	(3)10x16	255
KH 3	EXHAUST FAN (EF–3)	FRANKE H&K	UH–65	1–4	800	166	(4)10x16	260
KH 4	EXHAUST FAN (EF–6)	FRANKE H&K	TYPE II	1–2, 5	600	150	–	–

NOTES:
1. HOODS SHALL BE PROVIDED BY THE KES (SEE COORDINATION SCHEDULE)
2. SEE HOOD DRAWINGS FOR CONSTRUCTION DETAILS AND UL INFORMATION
3. REFER TO E3.2 FOR HOOD/FAN INTERLOCK DETAILS
4. CAPTURE JET PLENUMS TO BE INSTALLED ON HOOD, REFER TO K2.1 KITCHEN SCHEDULE.
5. PROVIDE WITH FASCIA KIT. COORDINATE CONDENSATE DRAINAGE WITH P.C.

FAN SCHEDULE

TAG	MANUFACTURER	MODEL	SERVES	ACCESSORIES	NOTES	DESIGN CFM	S.P.	BHP	FRPM	ELECTRICAL VOLTS	Ø	Hz	HP	FLA AMPS
EF 1	ACCUREX	XCUE–14010VG124MCD	KITCHEN HOOD (KH–1)	1–5,13,14	1,2,6	1000	1.75	0.61	1725	115 TO 10VDC ECM	1	60	1	11.5
EF 2	ACCUREX	XCUE–14010VG124MCD	KITCHEN HOOD (KH–2)	1–5,14	1,2,6	575	1.75	0.19	1725	115 TO 10VDC ECM	1	60	1	11.5
EF 3	ACCUREX	XCUE–14010VG124MCD	KITCHEN HOOD (KH–3)	1–5,13,14	1,2,6	800	1.75	0.19	1725	115 TO 10VDC ECM	1	60	1	11.5
EF 4	ACCUREX	XRED–099–VG4X–QD	DINING RESTROOMS	6–9,14	1,2,5 1	400	0.50	0.07	1126	115 TO 10VDC ECM	1	60	¼	2.5
EF 5	GREENHECK	SP–AP0511WL	DINING ROOM JANITOR'S CLOSET	10–12	1–3,5	80	0.20	–	900	115	1	60	–	0.29
EF 6	ACCUREX	XCUE–099–VG	KITCHEN HOOD (KH–4)	6–9,14	1,2,7	600	0.75	0.19	1725	115	1	60	¼	2.9
TF 1	GREENHECK	SP–A510	COMPUTER CLOSET	9–12	1–4	375	0.25	–	1100	115	1	60	–	3.3

ACCESSORIES:
1. 2–POLE NEMA 3R DISCONNECT SWITCH FACTORY–WIRED AND MOUNTED TO FAN
2. UL 762 LISTED AND LABELED
3. ROOF CURB MODEL GPF–24–G30 WITH 1" INSULATION
4. CURB EXTENSION INTEGRAL TO MCD FAN PACKAGE
5. HINGED CURB CAP KIT WITH CABLES
6. 120VAC BACKDRAFT DAMPER
7. ROOF CURB MODEL GPI–19–G14 WITH 1" INSULATION AND DAMPER TRAY
8. NEMA 3R DISCONNECT SWITCH
9. EXTERNAL STEADY–STATE SPEED CONTROLLER
10. ROUND DUCT CONNECTOR
11. TWO (2) 10W COMPACT LED LAMPS
12. PRISMATIC LENS
13. WINDBAND EXTENSION ON FAN OUTLET
14. VARIGREEN 10VDC ELECTRONICALLY COMMUTATED MOTOR

NOTES:
1. NO SUBSTITUTIONS PERMITTED
2. TO ORDER GREENHECK/ACCUREX EQUIPMENT CALL (888)325–6629 OR E–MAIL: MCD@ACCUREX.COM
3. ELECTRICAL CONTRACTOR SHALL PROVIDE DOOR SWITCH FOR LIGHT CONTROL
4. MECHANICAL CONTRACTOR SHALL FURNISH LINE VOLTAGE THERMOSTAT FOR FAN CONTROL. ELECTRICAL CONTRACTOR SHALL INSTALL THERMOSTAT.
5. CONNECT TO TIMECLOCK FOR FAN SHUT–OFF DURING UNOCCUPIED HOURS
6. REFER TO E3.2 FOR HOOD/FAN INTERLOCK DETAILS
7. UNIT SHALL BE INTERLOCKED WITH WAREWASHER SWITCHING CONTACT.

PACKAGED ROOFTOP UNIT SCHEDULE - DX/ELECTRIC

TAG	AREA SERVED	NOMINAL TONNAGE	MINIMUM OA (CFM)	SUPPLY FAN: SUPPLY AIRFLOW	EXT. S.P. (IN	MHP	BHP	RPM	COOLING COIL (DX): ENTERING AIR DB °F	ENTERING AIR WB °F	LEAVING AIR DB °F	LEAVING AIR WB °F	COOLING CAPACITY (MBH): SENSIBLE	TOTAL	HEAT EXCHANGER (ELECTRIC): ENTERING AIR (DB °F)	LEAVING AIR (DB °F)	TOTAL CAPACITY (MBH): INPUT(KW)	OUTPUT	# OF STAGES	MINIMUM EFFICIENCY EER (SEER)	WEIGHT (LBS.)*	UNIT POWER CONNECTION: VOLT.	PHASE	MCA	MOCP	MANUFACTURER	MODEL NO.	ACCESSORIES
RTU–1	KITCHEN	20	1500	7600	1.4	7.5	5.6	1024	78.6	65	59.0	55.9	204.7	233.5	57.6	73.5	60	153630	2	12	2961	208	3	146	150	LENNOX	LCT240H4VL1Y	1, 3, 4, 7, 9, 11, 12, 16, 17, 19, 20, 21
RTU–2	SUPPORT	7.5	800	2300	0.8	1.0	0.9	775	78.6	65.1	59.0	56.0	53.4	74.7	62	72.23	30	76815	2	12.3	1036	208	3	90	90	LENNOX	LCT092H4PEJ1Y	1, 3, 4, 7, 8, 9, 11, 12, 16,17, 19, 20, 21
RTU–3	DINING ROOM	15	1330	5000	1.4	3.0	3.0	940	78.6	65	59.0	55.9	164.4	171.1	62.2	70.6	45	115225	2	12	2751	208	3	131	150	LENNOX	LCT180H4VK1Y	1, 3, 4, 7, 8, 9, 11, 12,16,17, 19, 20, 21

ACCESSORIES:
1. DIFF. ENTHALPY ECONOMIZER
2. MOTORIZED O.A. DAMPER
3. BAROMETRIC RELIEF
4. MERV 13 FILTER
5. POWER EXHAUST
6. CO2 SENSOR FOR DCV
7. HUMIDITY CONTROL
8. SUPPLY AIR TEMPERING
9. TEMPERATURE SENSOR
10. COMBINED TEMP/HUMIDITY SENSOR
11. DISCONNECT SWITCH
12. FIELD WIRED 120V CONVENIENCE OUTLET
13. STAINLESS STEEL HEAT EXCHANGER
14. CONDENSER COIL PROTECTIVE COATING
15. EVAPORATOR COIL PROTECTIVE COATING
16. HAIL GUARD
17. RETURN AIR SMOKE DETECTOR
18. SUPPLY AIR SMOKE DETECTOR
19. 14" ROOF CURB
20. CONDENSATE DRAIN W/ P-TRAP
21. FLOAT SWITCH KIT

NOTES:
* NET WEIGHT ONLY - DOES NOT INCLUDE ADDITIONAL FACTORY OR FIELD INSTALLED OPTIONS / ACCESSORIES.

1. NO SUBSTITUTIONS PERMITTED.
2. SELECTION BASED ON PRE-PURCHASED LENNOX EQUIPMENT.
3. FACTORY INSTALLED DISCONNECT SWITCH IS NOT AVAILABLE WHEN MOCP IS 200 AMPS OR HIGHER. VERIFY WITH MANUFACTURER'S DOCUMENTATION PRIOR TO ORDERING.
4. MECHANICAL CONTRACTOR SHALL INSTALL SECONDARY ENTHALPY SENSOR IN RETURN AIR DUCT DROP & WIRE TO UNIT PER MAUFACTURERS INSTRUCTIONS.

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC/Illumination/Plumbing/Power Distribution/Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

DRAWING IS DIAGRAMMATIC AND AS SUCH ADJUSTMENTS TO UNKNOWN FIELD CONDITIONS MAY BE REQUIRED. THIS DRAWING WAS PREPARED FOR SPECIFIC USE ON THE DATE AND SITE INDICATED IN THE TITLE BLOCK. ANY MODIFICATION OR USE FOR AN EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF THE ENGINEER. DRAWINGS ARE SUBJECT TO COPYRIGHT AND MAY NOT BE REPRODUCED, DISTRIBUTED, PUBLISHED OR USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF DAVID W. DAY, P.E.

STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010019977
PROFESSIONAL ENGINEER
7/22/26

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PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED
MES	2026	JAW	04/15/2026

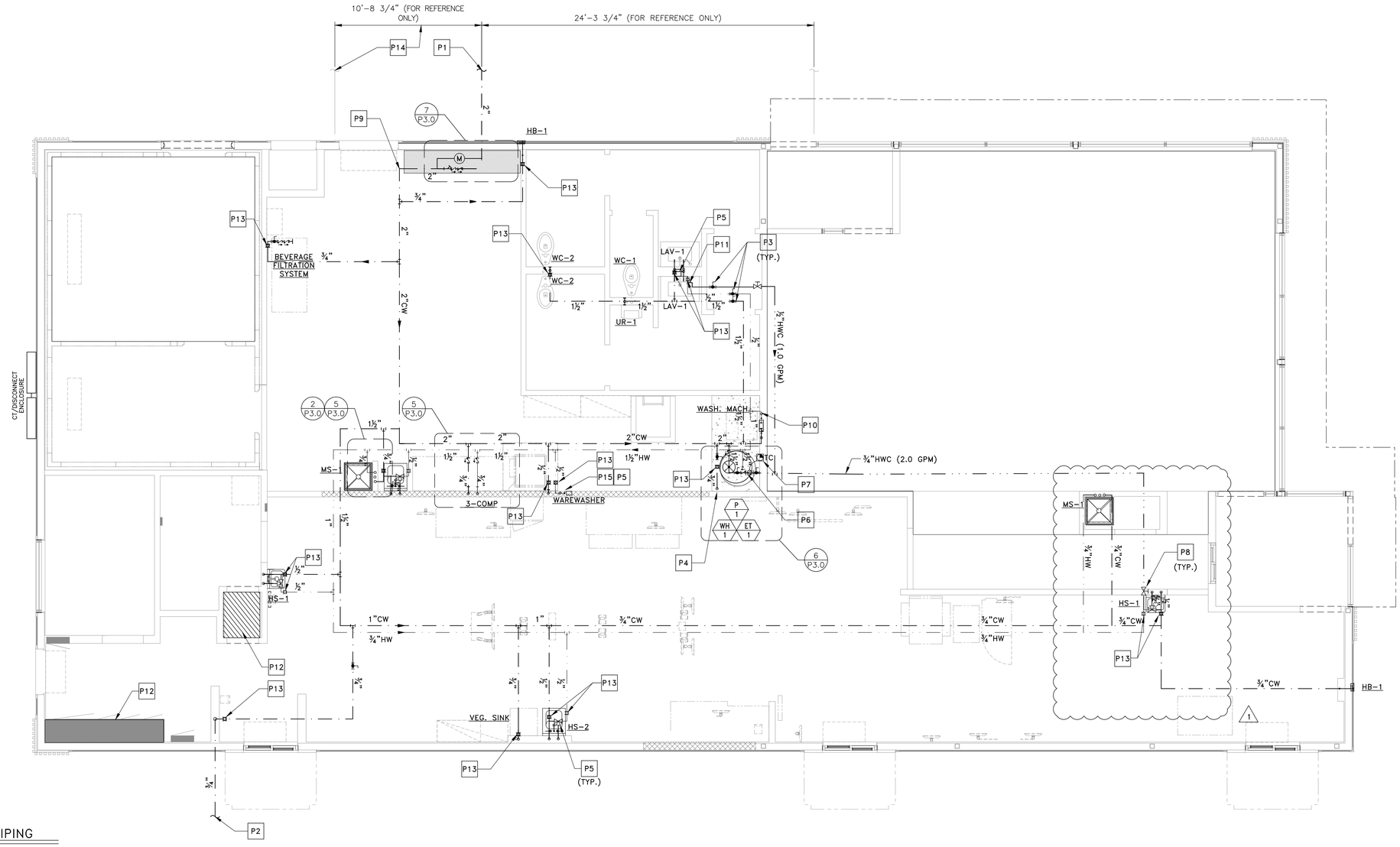
TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E. NEW MELVILLE RD. & S. HUNT RD. WILLARD, MO 65781

SITE ID: 024–1329

JAWA 26–0041

SHEET NO. M4.1
SCHEDULES



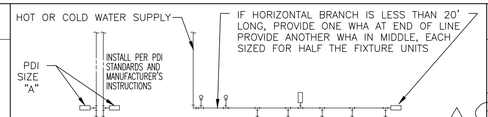
1 P1.0 DOMESTIC WATER PIPING
SCALE: 1/4" = 1'-0"

DRAWING NOTES

1. PIPING ROUTES AS SHOWN ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES. MAKE SURE HOT WATER MAIN LOOP REMAINS WITHIN 10 FT OF FIXTURE FOR ENERGY CODE PURPOSE.
2. ALL WATER DISTRIBUTION PIPING SHALL BE INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS, SHEET M4.0, "DOMESTIC SUPPLY SYSTEMS", NOTE 18.

KEYED NOTES

- P1 INCOMING UNDERGROUND WATER SERVICE (SEE SITE PLAN FOR CONTINUATION). WATER PIPING FROM THIS POINT TO CEILING PENETRATION INSIDE BUILDING SHALL BE COPPER.
- P2 COLD WATER UNDERGROUND TO YARD HYDRANT (HB-2) IN TRASH CORRAL. SEE SITE PLAN FOR CONTINUATION.
- P3 SHUT-OFF VALVE FOR RESTROOM ISOLATION. SEE VALVE SCHEDULE. ALL SHUT-OFF VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P4 ¾" COLD WATER UP TO ROOF HYDRANT.
- P5 FOR MIXING VALVE LOCATIONS AND INSTALLATION DETAILS ON PUBLIC LAVATORIES, SEE DETAIL 3 ON DRAWING P3.0. FOR PRIVATE HAND SINKS OR LAVS, MIXING VALVES FOR INFORMATIONAL PURPOSES. REFER TO PLUMBING FIXTURE SCHEDULE FOR WAREWASHER MIXING VALVE REQUIREMENTS.
- P6 AQUASTAT INTEGRAL TO PUMP SHALL SHUT OFF PUMP WHEN RECIRULATION TEMPERATURE REACHES 140°F. SEE DETAIL 6 ON DRAWING P3.0.
- P7 TIME CLOCK TO SHUT PUMP AND WATER HEATER DOWN DURING UNOCCUPIED HOURS. SEE ELECTRICAL DRAWINGS FOR WIRING DETAIL.
- P8 BALANCING VALVE FOR RECIRCULATION SYSTEM. SEE VALVE SCHEDULE. ALL BALANCING VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P9 WATER PIPING AFTER CEILING PENETRATION CAN TRANSITION TO CPVC OR PEX WHERE PERMITTED BY CODE.
- P10 PROPERLY SEAL ALL PIPE PENETRATIONS THROUGH DRAFT STOP WALL (TYP.)
- P11 HOT WATER RECIRCULATION SHALL CONNECT WITHIN 6" OF SUPPLY STUB OUT TO FIXTURE.
- P12 UTILITIES SHALL NOT BE ROUTED ABOVE THE TECH. CLOSET AND THE SWITCHGEAR.
- P13 INSTALL WATER-HAMMER ARRESTOR WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
- P14 MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM THE INCOMING DOMESTIC WATER TO THE GREASE WASTE AND SANITARY LINES.
- P15 ROUTE CW AND HW DOWN IN WALL TO WALL BOX AND CONNECT COMPLETE. REFER TO PLUMBING FIXTURE SCHEDULE FOR WAREWASHER CONNECTION REQUIREMENTS.



PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32

FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
HOSE BIBB	2	--
SODA FACTORY	10	
WAREWASHER	4	4

1 PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

DETAIL 2 P1.0
WATER-HAMMER ARRESTER (TYP.)
NOT TO SCALE

FIXTURE COUNT - IPC

NO.	FIXTURE DESCRIPTION	SUPPLY CONNECTIONS WSFU	COLD	HOT	TOTAL
1	VEGETABLE PREP. SINK	4	¾"	-	4
4	HAND SINK	1	½"	½"	4
4	HOSE BIBB	3	¾"	-	12
1	SODA FACTORY	10	¾"	-	10
1	KITCHEN SINK (3-COMP)	4	¾"	¾"	4
2	MOP SINK 1	2	¾"	¾"	4
2	LAVATORY	1	½"	½"	2
1	URINAL	5	1"	-	5
3	WATER CLOSET	5	1 ½"	-	15
1	WASHING MACHINE	4	¾"	¾"	4
1	WAREWASHER	4	½"	½"	4
			TOTAL:		68
			(55 GPM)		

1

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

DRAWING IS DIAGRAMATIC AND AS SUCH ADJUSTMENTS TO UNKNOWN FIELD CONDITIONS MAY BE REQUIRED. THIS DRAWING WAS PREPARED FOR SPECIFIC USE ON THE DATE AND SITE INDICATED. ANY REUSE OF THIS DRAWING FOR ANOTHER PROJECT, EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF THE ENGINEER. DRAWINGS ARE SUBJECT TO COPYRIGHT AND MAY NOT BE REPRODUCED, DISTRIBUTED, PUBLISHED OR USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF DAVID W. DAY, P.E.

STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2009018977
PROFESSIONAL ENGINEER
7/22/26

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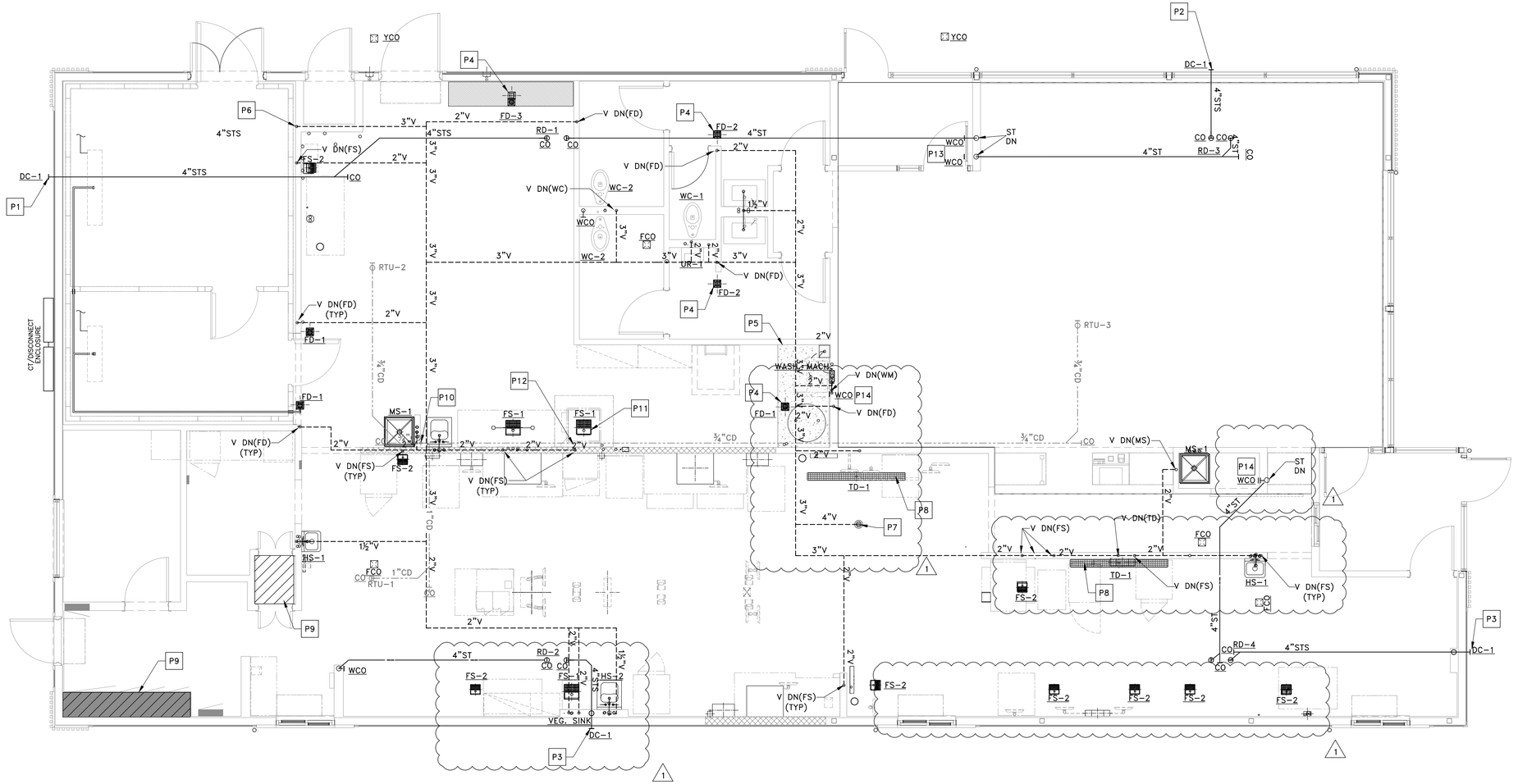
DRAWN BY	MES
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026
SITE ADDRESS	SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
TITLE	2026 STANDARD BUILDING - BB20 4590-WOOD/WOOD
DESCRIPTION	WOOD BEARING WALLS WOOD ROOF TRUSS FRAMING
SITE ID	024-1329

JAWA 26-0041

SHEET NO. P1.0
DOMESTIC WATER PIPING



1 P1.2 VENT & STORM PIPING PLAN

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

DRAWING NOTES

1. PIPING ROUTES ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
2. WALL CLEAN-OUTS FOR WASTE PIPING NOT SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
3. ONLY MAIN FLOOR CLEAN-OUTS ARE SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
4. ALL HORIZONTAL STORM DRAINAGE PIPING SHALL BE INSULATED TO PREVENT CONDENSATION. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS.

KEYED NOTES

- P1 TERMINATE OVERFLOW DRAIN AS HIGH AS POSSIBLE WITH DOWNSPOUT COVER.
- P2 TERMINATE OVERFLOW DRAIN ABOVE TRELLIS WITH DOWNSPOUT COVER. BOTTOM OF DOWNSPOUT OUTLET PIPE SHALL BE AT LEAST 3" BUT NOT MORE THAN 8" ABOVE TOP OF TRELLIS.
- P3 TERMINATE BOTTOM OF OVERFLOW DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER. 1
- P4 PROVIDE PROSET TRAP GUARD® FOR FLOOR DRAIN.
- P5 TOP OF CONCRETE SLAB IS 0'-6" A.F.F.
- P6 VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.
- P7 4" VENT UP THROUGH ROOF WITH A 4"x5" VENT CAP
- P8 REFERENCE MANUFACTURER INSTALLATION GUIDE FOR LAYOUT AND SLOPING GUIDELINES PRIOR TO INSTALL AND POURING THE SLAB.
- P9 UTILITIES SHALL NOT BE ROUTED ABOVE THE TECH. CLOSET AND THE SWITCHGEAR.
- P10 CONDENSATE LINE FROM RTUs DOWN TO DRAIN AT MOP SINK INDIRECT WITH AIR GAP 2 x DIAMETER, TERMINATE PIPE ABOVE FLOOD RIM. FURNISHED AND INSTALLED BY PC. SEE COORDINATION SCHEDULE ON P4.1 & M4.1.
- P11 CONTRACTOR SHALL ROUTE ½" OD 304 S/S PIPE (PROVIDED BY OTHERS) FROM TYPE II EXHAUST HOOD TO FLOOR SINK.
- P12 CONTRACTOR SHALL INSTALL DRAIN PIPE AND AIR GAP KIT (PROVIDED BY OTHERS). CONNECT DRAIN HOSES FROM WAREWASHER TO DRAIN PIPE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL 9/P3-0 FOR FURTHER DETAILS.
- P13 WALL CLEAN OUTS TO BE INSTALLED 18" A.F.F. ON VESTIBULE SIDE. OPTIONAL: PAINT TO MATCH WALL FINISH FOR CONCEALMENT.
- P14 WALL CLEAN OUTS TO BE INSTALLED 18" A.F.F. ON BACK OF HOUSE SIDE. COORDINATE FINISH COLOR WITH WALL DECOR.

STORM PIPE SIZING

RAINFALL = 4 IN./HR

VERTICAL LEADERS		
ROOF DRAIN	ROOF AREA SQ. FT.	SIZE IN.
RD-1	1,298	4
RD-2	1,313	4
RD-3	780	4
RD-4	885	4
TOTAL	4,276	

HORIZONTAL PIPING (SLOPE ⅛" PER FOOT)		
ROOF DRAIN	ROOF AREA SQ. FT.	SIZE IN.
RD-2 & RD-4	2,198	6
RD-1, RD-2, RD-3 & RD-4	4,276	6

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010037844
PROFESSIONAL ENGINEER
7/22/26

PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED
MES	2026	JAW	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD

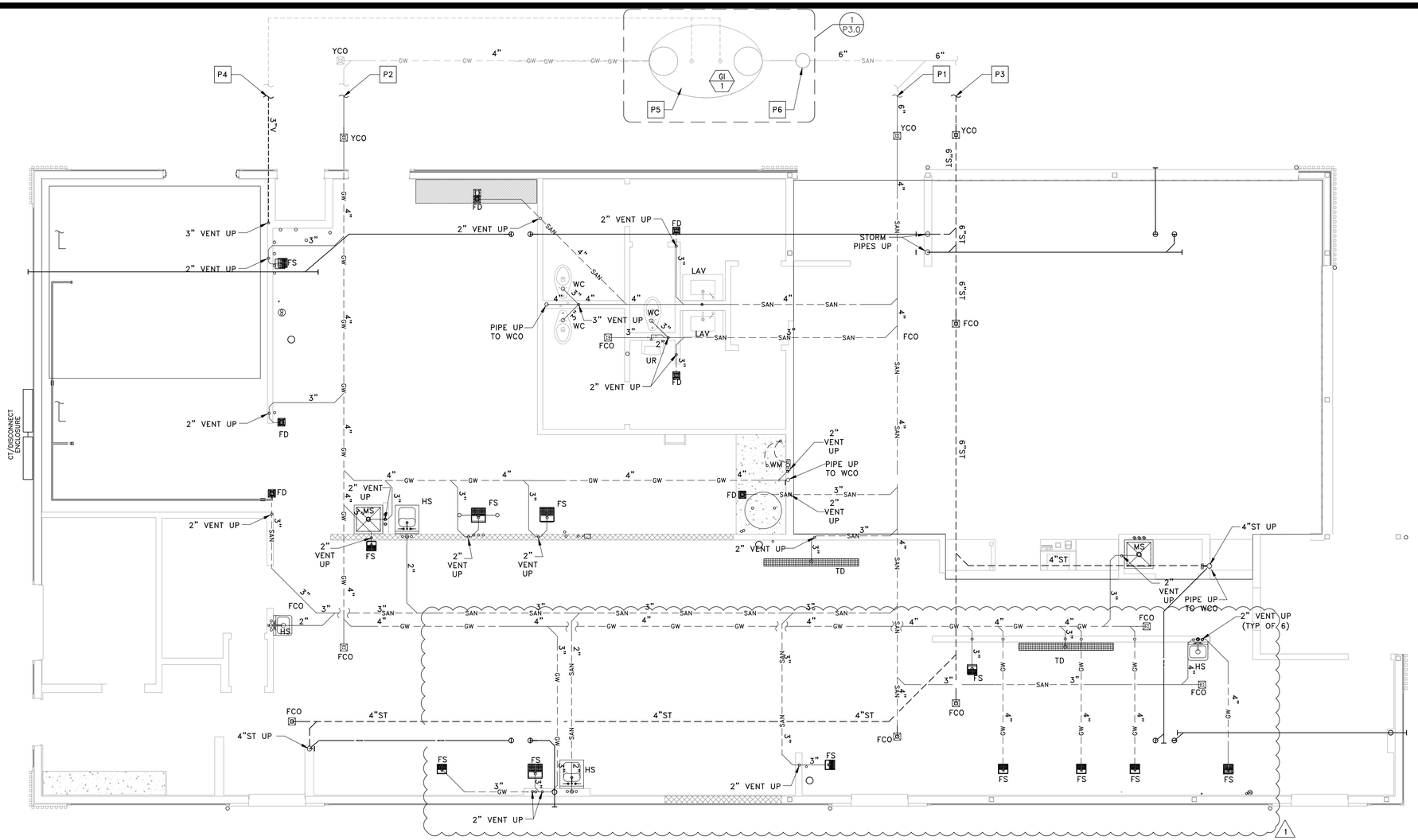
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SITE ID: 024-1329

JAWA 26-0041

SHEET NO. P1.2
VENT & STORM PIPING PLAN



1 P1.3 UNDERFLOOR PLUMBING PLAN

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

DRAWING NOTES

1. PIPING ROUTES ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
2. WALL CLEAN-OUTS FOR WASTE PIPING NOT SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
3. ONLY MAIN FLOOR CLEAN-OUTS ARE SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.

KEYED NOTES

- P1 SANITARY LINE TO SANITARY SEWER. SEE SITE PLAN FOR CONTINUATION.
- P2 GREASE LINE TO EXTERIOR GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION
- P3 STORM LINE TO STORM SYSTEM. SEE SITE PLAN FOR CONTINUATION.
- P4 VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.
- P5 GREASE INTERCEPTOR LOCATION SHOWN FOR REFERENCE ONLY. COORDINATE GREASE INTERCEPTOR LOCATION WITH CIVIL ENGINEER AND SITE CONTRACTOR.
- P6 INSTALL SAMPLING PORT. SCHIER, MODEL SV10 FOR SCHIER HYDROMECHANICAL GREASE INTERCEPTOR.

WASTE PIPE SIZING - IPC

FIXTURE TYPE	TRAP SIZE	DFU	QUANTITY	TOTAL
URINAL	2 IN.	4	1	4
WATER CLOSET	3 IN.	4	3	12
LAVATORY	1¼ IN.	1	2	2
WASH SINK (HAND SINK)	1½ IN.	2	4	8
FLOOR DRAIN OR SINK	3 IN.	5	5	25
FLOOR DRAIN OR SINK	4 IN.	6	1	6
EMERGENCY FLOOR DRAIN (BATHROOMS)	3 IN.	0	2	0
			TOTAL	57

GREASE PIPE SIZING - IPC

SERVICE SINK (MOP SINK)	3 IN.	3	2	6
FLOOR DRAIN OR SINK	3 IN.	5	7	35
FLOOR DRAIN OR SINK	4 IN.	6	1	6
WASHING MACHINE	2 IN.	3	1	3
			TOTAL	50

STORM PIPE SIZING

RAINFALL = 4 IN./HR

VERTICAL LEADERS

	ROOF AREA	SIZE
ROOF DRAIN	SQ. FT.	IN.
RD-1	1,298	4
RD-2	1,313	4
RD-3	780	4
RD-4	885	4
TOTAL	4,276	

HORIZONTAL PIPING (SLOPE ⅛" PER FOOT)

	ROOF AREA	SIZE
ROOF DRAIN	SQ. FT.	IN.
RD-2 & RD-4	2,198	6
RD-1, RD-2, RD-3 & RD-4	4,276	6

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls

David W. Day
P.O. Box 1640
Anahuac ,TX 77514

contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2009018797
PROFESSIONAL ENGINEER
7/22/26

PREPARED FOR: McDonald's USA, LLC

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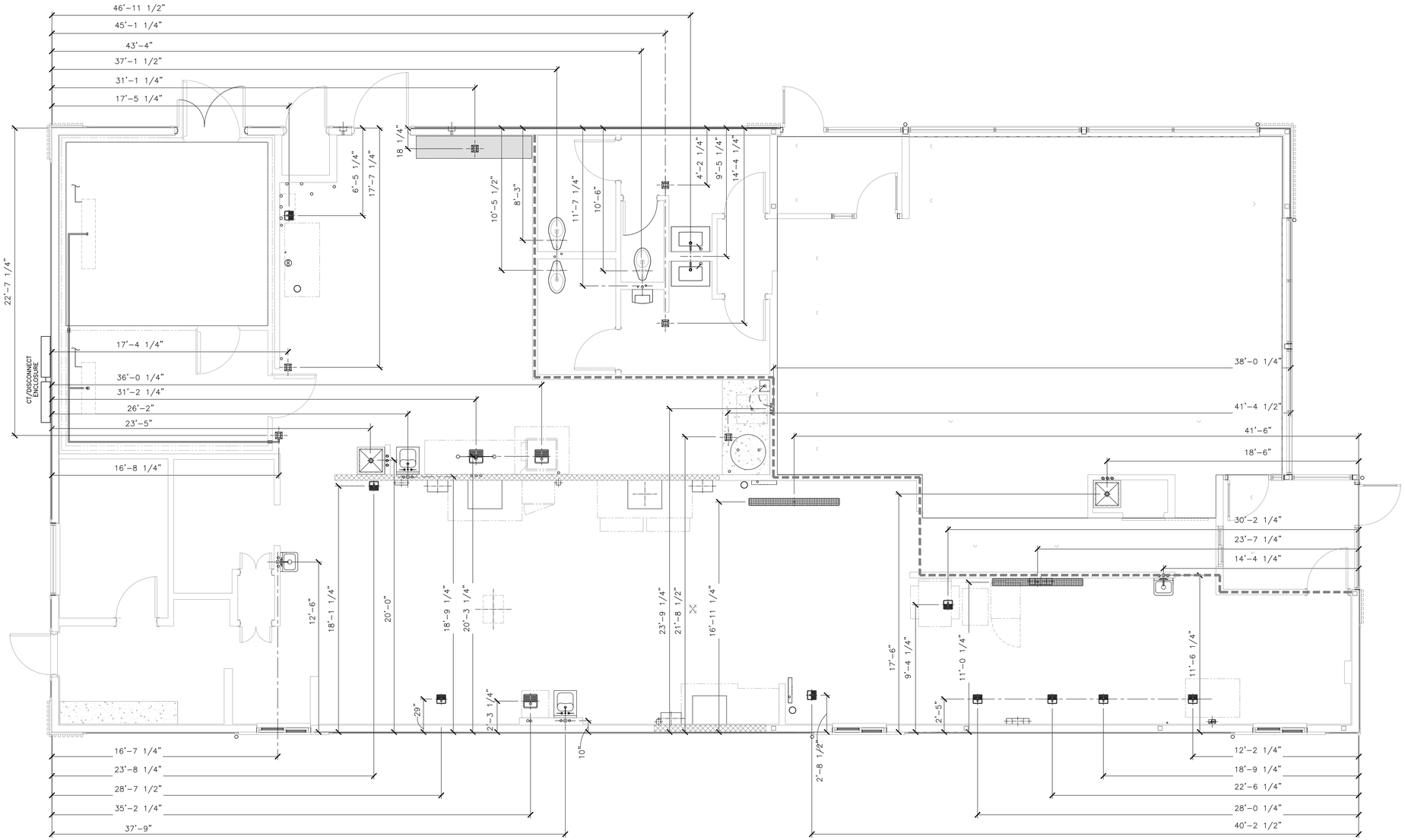
DRAWN BY	MES
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026
TITLE	2026 STANDARD BUILDING - BB20
DESCRIPTION	4590-WOOD/WOOD
	WOOD BEARING WALLS
	WOOD ROOF TRUSS FRAMING
SITE ADDRESS	SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
SITE ID	024-1329

JAWA 26-0041

SHEET NO. P1.3

UNDERGROUND PLUMBING



1 P1.4 UNDERGROUND ROUGH-IN

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

DRAWING NOTES

1. THIS PLAN IS PROVIDED AS A GUIDE FOR THE PLUMBING CONTRACTOR. ALL DIMENSIONS ARE ROUNDED TO THE NEAREST ¼" AND ARE TAKEN FROM THE OUTSIDE EDGE OF THE FOUNDATION WALL TO CENTERLINE OF SLAB PENETRATION.

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls

David W. Day
P.O. Box 1640
Anahuac ,TX 77514

contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesignts.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010037
PROFESSIONAL ENGINEER
7/22/26

PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	MES
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD

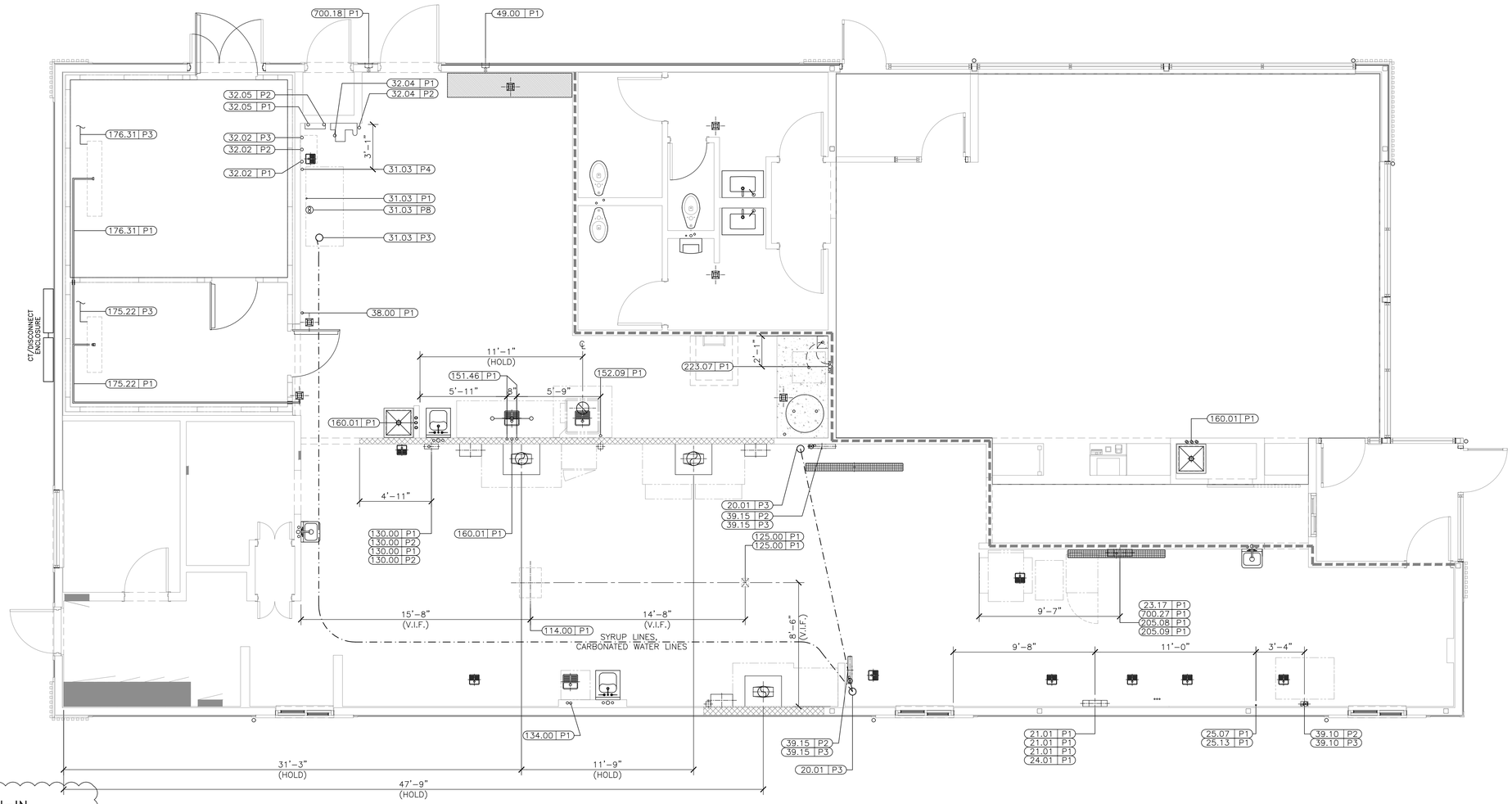
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024-1329

SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

JAWA 26-0041

SHEET NO. P1.4
UNDERGROUND ROUGH-IN



1 P1.6 OVERHEAD ROUGH-IN

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

VIF = Verify in Field
PC = Plumbing Contractor
BSI = Beverage System Installer

PLUMBING SCHEDULE

TAG #	QTY	DESCRIPTION	GAS TYPE	GAS BTU	GAS SIZE	HW	CW	MISC PLBG	HGT AFF	DRAIN	REQUIREMENTS & REMARKS
020.01P3	2	AUTOMATED BEVERAGE SYSTEM 2.0	–	–	–	–	–	SODA BUNDLE	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – "I" FROM D/T – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES
021.01P1	3	COFFEE BREWER (GLASS DECANTERS)	–	–	–	–	1/4" TRTD	–	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE PER LOCAL CODES. 1/4" R.O. WATER OPTIONAL
023.10P1	1	ESPRESSO BREWER	–	–	–	–	3/8" R.O.	–	SEE RMKS	3/8" IND	DN CHASE FROM R.O. SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE PER LOCAL CODES
024.02P1	1	JUICE DISPENSER	–	–	–	–	1/2" FLTR	–	SEE RMKS	–	–
025.07P1	1	INFUSION TEA BREWER – MIS	–	–	–	–	1/2" TRTD	3/8" CO2	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE PER LOCAL CODES
025.13P1	1	GLASS FILLER HOSE ASSEMBLY	–	–	–	–	1/4" FLTR	–	SEE RMKS	–	TEE–OFF FROM 25.07P1, INFUSION TEA BREWER –BSI TO CONN CW LINE PER LOCAL CODES
1 031.03P1	1	~~SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)~~	–	–	–	–	–	~~3/8" OUTLET~~	~~SEE RMKS~~	–	~~FLEX LINE OVERHEAD TO VARIOUS EQUIP. BSI TO MAKE FINAL CONN PER LOCAL CODES~~
031.03P3	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	–	SODA BUNDLE	SEE RMKS	–	OVERHEAD TO SODA TOWER CHASE(S) – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES
031.03P4	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	3/4"	–	1'–6"	3/4" IND	BSI TO MAKE CONNECTION FROM BACKFLOW PREVENTER (VERIFY HEIGHT IN FIELD)
031.03P8	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	–	REFRIG LINES	SEE RMKS	–	FROM REMOTE CONDENSING UNIT
032.02P1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS	–	–	–	–	3/8" FLTR	–	SEE RMKS	–	FLEX LINE OVERHEAD FROM SODA SYSTEM –BSI TO MAKE FINAL CONN PER LOCAL CODES
032.02P2	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS	–	–	–	–	–	3/8" OUTLET	SEE RMKS	–	FLEX LINE OVERHEAD TO RAPID STEAMER, ESPRESSO, AND COFFEE (OPT.) –BSI TO MAKE FINAL CONN PER LOCAL CODES
1 032.02P3	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS	–	–	–	–	–	–	–	1/4" WASTE	–
032.04P1	1	WATER FILTRATION SYSTEM	–	–	–	–	–	3/4" INLET	6'–0"	–	–
032.04P2	1	WATER FILTRATION SYSTEM	–	–	–	–	–	3/4" OUTLET	–	–	3/4" GHT RINSE CONN. FLEX LINE OVHD. TO RAPID STEAMER, ESPRESSO, & COFFEE (OPT.) –BSI TO MAKE FINAL CONN PER LOCAL CODE
032.05P1	1	WATER FILTRATION SYSTEM	–	–	–	–	–	3/4" INLET	SEE RMKS	–	FLEX LINE OVERHEAD FROM R.O. SYSTEM –BSI TO MAKE FINAL CONN PER LOCAL CODES
032.05P2	1	WATER FILTRATION SYSTEM	–	–	–	–	–	3/4" OUTLET	SEE RMKS	–	FLEX LINE OVERHEAD TO COMBI OVENS AND STAGING CABINET –BSI TO MAKE FINAL CONN PER LOCAL CODES
038.00P1	1	CLEAN IN PLACE PANEL	–	–	–	–	1/2" FLTR	–	6'–0"	–	FOR CLEANING BULK COKE TANKS. INSTALL HEIGHT TO BOTTOM OF UNIT
039.10P2	1	ICE MACHINE – 1400 LB.	–	–	–	–	1/2" TRTD	–	SEE RMKS	3/4" IND	WATER LINE OVERHEAD FROM SODA SYSTEM – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES
039.10P3	1	ICE MACHINE – 1400 LB.	–	–	–	–	–	REFRIG LINES	–	–	REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT

VIF = Verify in Field
PC = Plumbing Contractor
BSI = Beverage System Installer

PLUMBING SCHEDULE

TAG #	QTY	DESCRIPTION	GAS TYPE	GAS BTU	GAS SIZE	HW	CW	MISC PLBG	HGT AFF	DRAIN	REQUIREMENTS & REMARKS
039.15P2	2	ICE MACHINE – 1000 LB.	–	–	–	–	1/2" TRTD	–	SEE RMKS	3/4" IND	WATER LINE OVERHEAD FROM SODA SYSTEM – BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES
039.15P3	2	ICE MACHINE – 1000 LB.	–	–	–	–	–	REFRIG LINES	–	–	REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT
049.00P1	1	CO2 FILL BOX	–	–	–	–	–	–	3'–4"	–	HEIGHT IS TO BOTTOM OF FILL BOX;SUPPLIED BY MANUFACTURER;INSTALLED BY G.C. SEE BUILDING ELEVATIONS.
114.00P1	1	HUMIDIFIED HOLDING CABINET	–	–	–	–	3/8" R.O.	–	SEE RMKS	–	BSI EXTENDS CW LINE OVERHEAD FROM R.O. SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF
125.00P1	2	RAPID BUN STEAMER	–	–	–	–	3/8" R.O.	–	SEE RMKS	–	BSI EXTENDS CW LINE FROM R.O. SYSTEM & TERM. W/QUICK DISCONN.
130.00P1	2	COMBI OVEN	–	–	–	–	1/2" FLTR	–	SEE RMKS	1 1/2" IND	BSI EXTENDS CW LINE OVERHEAD FROM SODA SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF
130.00P2	2	COMBI OVEN	–	–	–	–	3/8" R.O.	–	SEE RMKS	–	BSI EXTENDS CW LINE OVERHEAD FROM R.O. SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF
134.00P1	1	VEGETABLE SINK	–	–	–	–	3/4"	–	1'–10"	1–1/2" IND	–
151.46P1	1	SOILED DISHTABLE – RIGHT HAND – 90.5" WIDE	–	–	–	3/4" 140	3/4"	–	1'–6"	–	PC MAKES FINAL CONNECTIONS PER LOCAL CODE
152.09P1	1	WAREWASHER – HIGH TEMP	–	–	–	1/2" 140	1/2"	–	2'–0"	1 1/2"	PC TO PROVIDE HW, CW, DRAIN PIPING.DRAIN @9" AFF. FOR ECOLAB FROM WB–2, SPLIT CW: 1/2" CW TO DTV, 3/8" CW TO VAPOR VENT.
160.01P1	3	CHEMICAL SYSTEM	–	–	–	3/4" 140	–	–	SEE RMKS	–	PC TO PROVIDE 3/4" MHT. FINAL CONNECTIONS BY EQUIPMENT INSTALLER PER ~~LOCAL CODE. SEE SHEET P3.0 FOR INSTALLATION HEIGHT.~~
175.22P1	1	COOLER EVAPORATOR	–	–	–	–	–	–	–	3/4" COND.	PC TO ROUTE CONDENSATE DRAIN LINE TO FLOOR DRAIN. PC TO LIQUID–TIGHT SEAL OPENING FOR LINE EXITING BOX
175.22P3	1	COOLER EVAPORATOR	–	–	–	–	–	REFRIG LINES	–	–	RUN TO REMOTE CONDENSING UNIT–INSULATE FULL RUN LENGTH –INSTALLED BY REFRIG. CONTRACTOR
176.31P1	1	FREEZER EVAPORATOR	–	–	–	–	–	–	–	3/4" COND.	PC TO ROUTE CONDENSATE DRAIN LINE TO FLOOR DRAIN. PC TO LIQUID–TIGHT SEAL OPENING FOR LINE EXITING BOX. HEAT TAPE BY REF.
176.31P3	1	FREEZER EVAPORATOR	–	–	–	–	–	REFRIG LINES	–	–	RUN TO REMOTE CONDENSING UNIT–INSULATE FULL RUN LENGTH –INSTALLED BY REFRIG. CONTRACTOR
205.08P1	1	~~RIC MACHINE~~	–	–	–	–	1/2" FLTR	–	SEE RMKS	1" IND	DN CHASE. IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONNECT LINES PER LOCAL CODES
205.09P1	1	FROZEN BEVERAGE DISPENSER	–	–	–	–	1/2" FLTR	3/8" CO2	SEE RMKS	–	DN CHASE. IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONNECT LINES PER LOCAL CODES
223.07P1	1	WASHER	–	–	–	3/4" 140	3/4"	–	4'–0"	1 1/2" D	SEE PLUMBING DWGS FOR WALL BOX. INSTALL HEIGHT IS TO BOTTOM OF THE BOX
700.18P1	1	BULK OIL FILL BOX	–	–	–	–	–	–	3'–4"	–	HEIGHT IS TO BOTTOM OF FILL BOX;SUPPLIED BY MANUFACTURER;INSTALLED BY G.C. SEE BUILDING ELEVATIONS.

REV.	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls

David W. Day
P.O. Box 1640
Anahuac ,TX 77514

contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesignstx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010041744
PROFESSIONAL ENGINEER
7/22/26

PREPARED FOR: McDonald's USA, LLC

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DRAWN BY: MES
STD ISSUE DATE: 2026
REVIEWED BY: JAW
DATE ISSUED: 04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
DESCRIPTION: 4590–WOOD/WOOD
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SITE ID: 024–1329

JAWA 26–0041

SHEET NO. P1.6
OVERHEAD ROUGH–IN

1 P2.0 DOMESTIC WATER PIPING ISOMETRIC

SCALE: NONE

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls

David W. Day
P.O. Box 1640
Anahuac ,TX 77514

contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesignts.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010037
PROFESSIONAL ENGINEER
7/22/26

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REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

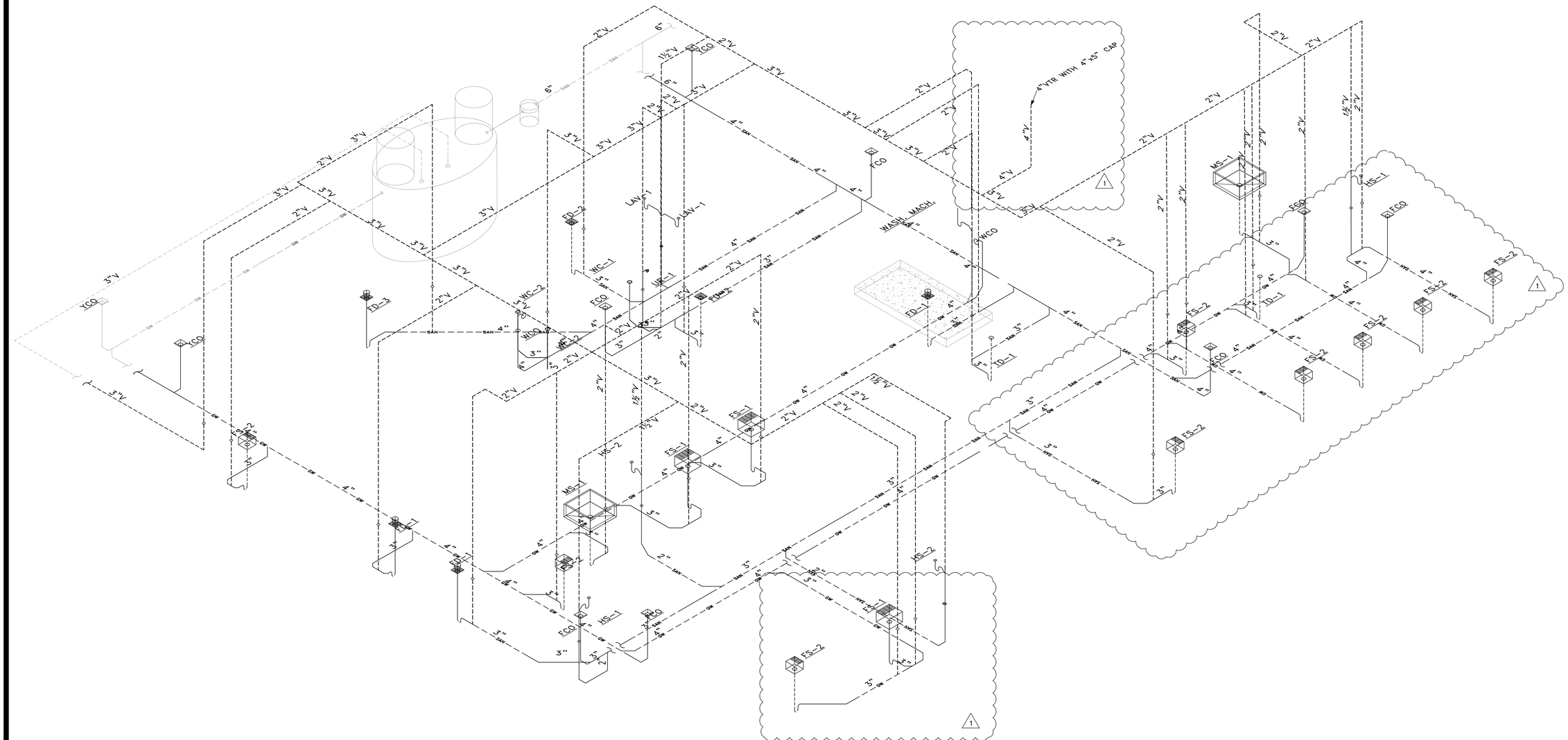
SITE ID: 024-1329

SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

JAWA 26-0041

SHEET NO. P2.0

DOMESTIC WATER ISOMETRIC



1 P2.1 WASTE & VENT PIPING ISOMETRIC

SCALE: NONE

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls

David W. Day
P.O. Box 1640
Anahuac ,TX 77514

contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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NUMBER PE-2009018911
PROFESSIONAL ENGINEER
7/22/26

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STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD

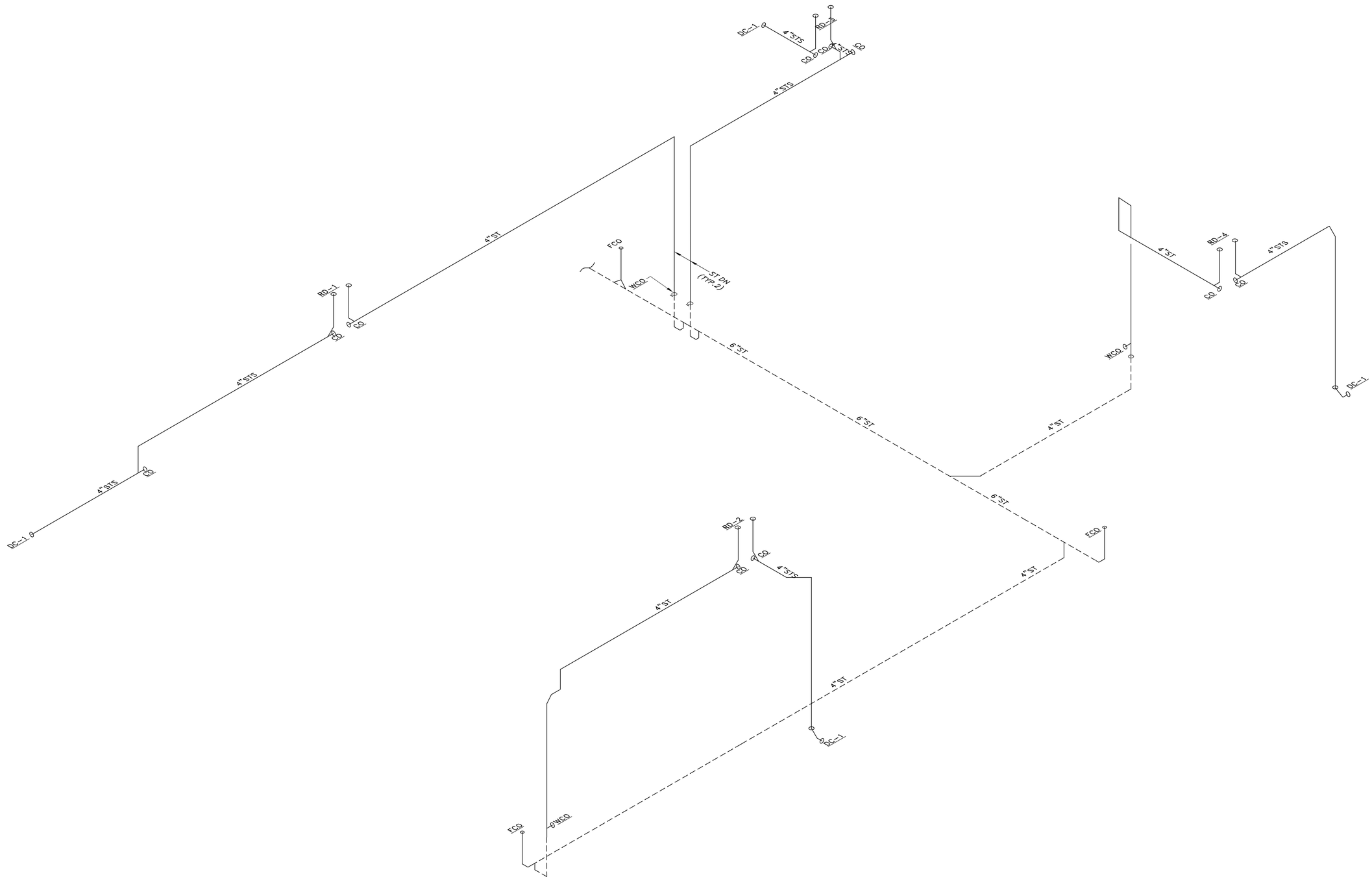
DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SITE ID: 024-1329

JAWA 26-0041

SHEET NO. P2.1
WASTE & VENT ISOMETRIC



1 P2.2 STORM PIPING ISOMETRIC

SCALE: NONE

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls

David W. Day
P.O. Box 1640
Anahuac ,TX 77514

contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesignts.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010037
PROFESSIONAL ENGINEER
4/15/26

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REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD

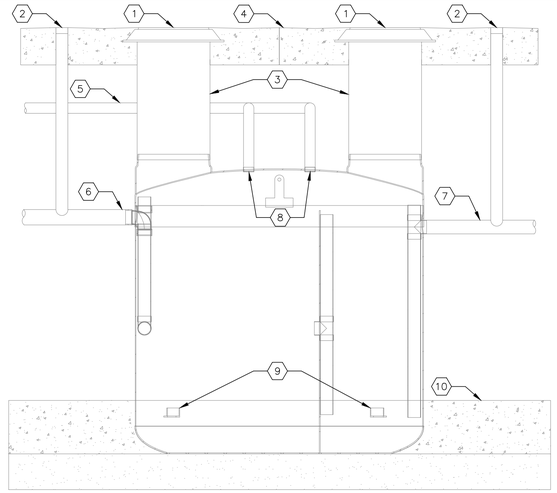
DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024-1329

SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

JAWA 26-0041

SHEET NO. P2.2
STORM ISOMETRIC

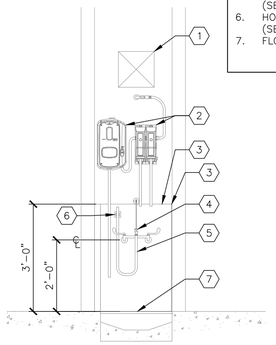


ELEVATION VIEW

DETAIL 1
GREASE INTERCEPTOR INSTALLATION
SCALE: NONE
P3.0

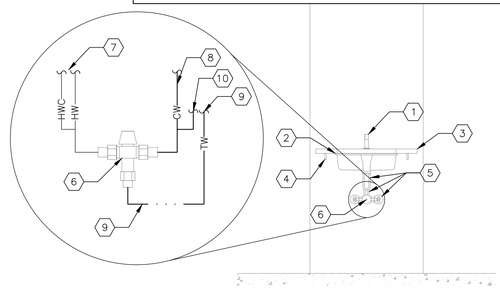
KEYED NOTES:
1. 24"ø MANWAY ACCESS COVER, CONSTRUCTED OF ROUND CAST IRON OR SIMILAR RATED FOR HEAVY ROAD TRAFFIC WITH SUFFICIENT WEIGHT TO PREVENT UNAUTHORIZED ACCESS OR BOLT OR LOCKING MECHANISM.
2. 4" CLEAN–OUT
3. MANWAY EXTENSION TO FINISHED GRADE
4. CONCRETE SLAB FOR TRAFFIC LOADING
5. 3"ø VENT BACK TO BUILDING
6. 6"ø INLET
7. 6"ø OUTLET
8. 3"ø VENT CONNECTION
9. HOLD DOWN BRACKET
10. ANTI–BUOYANCY PAD FOR HIGH WATER TABLE INSTALLATIONS

*SEE GREEN TURTLE PROCEPTOR INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.



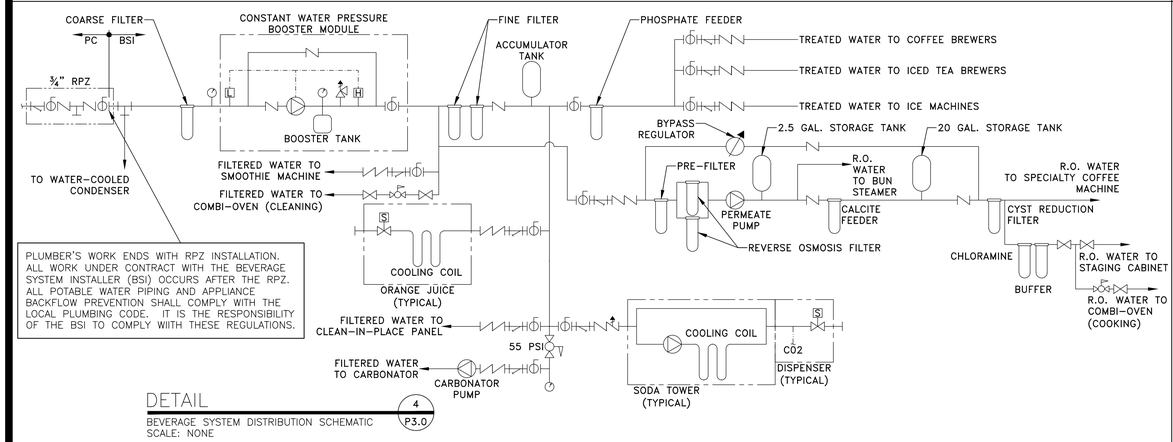
DETAIL 2
RECESSED MOP SINK
SCALE: ½"=1'–0"
P3.0

KEYED NOTES:
1. ACCESS PANEL FOR THERMOSTATIC MIXING VALVE (SEE CHEMICAL SYSTEM INSTALLATION DETAIL)
2. ECOLAB CHEMICAL SYSTEM (SEE CHEMICAL SYSTEM INSTALLATION DETAIL)
3. 24"Wx36"H WALL GUARD (QTY. 2) FURNISHED WITH MOP SINK (SEE PLUMBING FIXTURE SCHEDULE)
4. MOP SINK FAUCET WITH INTEGRAL VACUUM BREAKER (SEE PLUMBING FIXTURE SCHEDULE)
5. HOSE FURNISHED WITH MOP SINK FAUCET (SEE PLUMBING FIXTURE SCHEDULE)
6. HOSE BRACKET FURNISHED WITH MOP FAUCET (SEE PLUMBING FIXTURE SCHEDULE)
7. FLOOR GRATE

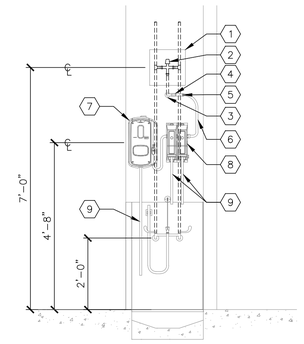


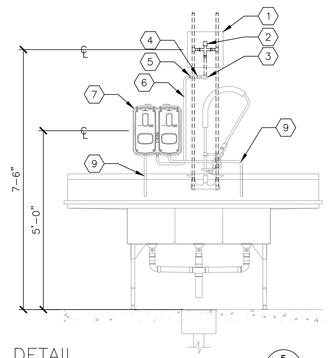
DETAIL 3
LAVATORY (PUBLIC)
SCALE: ½"=1'–0"
P3.0

KEYED NOTES:
1. FAUCET (SEE PLUMBING FIXTURE SCHEDULE)
2. LAVATORY OR HAND SINK (SEE PLUMBING FIXTURE SCHEDULE)
3. CORIAN COUNTERTOP – TOILET ROOMS ONLY (FURNISHED BY G.C.)
4. LAVATORY CARRIER – TOILET ROOMS ONLY (SEE ARCHITECTURAL DRAWINGS)
5. OUTLINE OF ADA COMPLIANT WRAP (SEE PLUMBING FIXTURE SCHEDULE)
6. THERMOSTATIC MIXING VALVE (SEE VALVE SCHEDULE)
7. HOT WATER AND HWC DOWN WALL (WITH BALANCING VALVE AND CHECK VALVE INSTALLED).
8. COLD WATER DOWN TO MIXING VALVE
9. TEMPERATED WATER TO FIXTURES
10. COLD WATER TO FIXTURES AS APPLICABLE.



DETAIL 4
BEVERAGE SYSTEM DISTRIBUTION SCHEMATIC
SCALE: NONE
P3.0



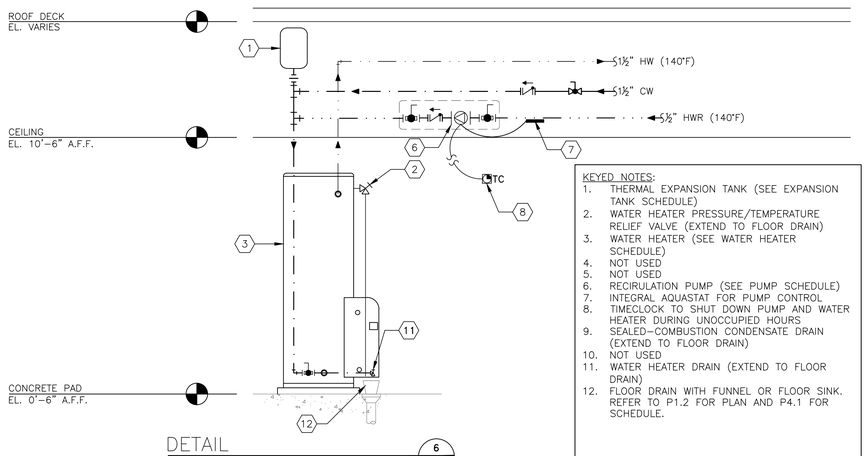


DETAIL 5
CHEMICAL SYSTEM INSTALLATION
SCALE: ½"=1'–0"
P3.0

KEYED NOTES:
1. 12"x12" ACCESS PANEL (COORDINATE INSTALLATION WITH G.C.)
2. THERMOSTATIC MIXING VALVE SET TO 110°F (SEE VALVE SCHEDULE)
3. PIPE THROUGH WALL WITH ESCUTCHEON PLATE
4. SHUT–OFF VALVE
5. ¾" MHT CONNECTION

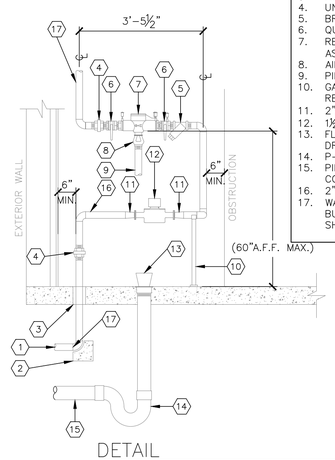
PLUMBER'S WORK ENDS AT MHT CONNECTION

6. HOSE TO CHEMICAL SYSTEM
7. ECOLAB SOLIDSENSE CHEMICAL DISPENSER
8. ECOLAB SMARTSHAPE CHEMICAL DISPENSER
9. CHEMICAL DISPENSING HOSE



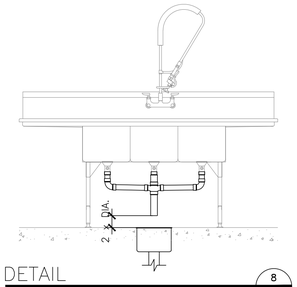
KEYED NOTES:
1. THERMAL EXPANSION TANK (SEE EXPANSION TANK SCHEDULE)
2. WATER HEATER PRESSURE/TEMPERATURE RELIEF VALVE (EXTEND TO FLOOR DRAIN)
3. WATER HEATER (SEE WATER HEATER SCHEDULE)
4. NOT USED
5. NOT USED
6. RECIRULATION PUMP (SEE PUMP SCHEDULE)
7. INTEGRAL AQUASTAT FOR PUMP CONTROL
8. TIMECLOCK TO SHUT DOWN PUMP AND WATER HEATER DURING UNOCCUPIED HOURS
9. SEALED–COMBUSTION CONDENSATE DRAIN (EXTEND TO FLOOR DRAIN)
10. NOT USED
11. WATER HEATER DRAIN (EXTEND TO FLOOR DRAIN)
12. FLOOR DRAIN WITH FUNNEL OR FLOOR SINK. REFER TO P1.2 FOR PLAN AND P4.1 FOR SCHEDULE.

DETAIL 6
WATER HEATER PIPING
SCALE: NONE
P3.0

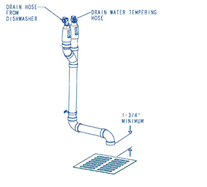


KEYED NOTES:
1. INCOMING UNDERGROUND WATER SERVICE SIZED PER DOMESTIC WATER CALCULATIONS. (MIN. 2")
2. BLOCKING AT CHANGES IN DIRECTION
3. MINIMUM ½" ANNULAR CLEARANCE
4. UNION
5. BRONZE STRAINER
6. QUARTER–TURN BALL VALVE
7. REDUCED PRESSURE ZONE (RPZ) ASSEMBLY
8. AIR GAP FOR RELIEF VALVE
9. PIPING FROM AIR GAP TO FLOOR DRAIN
10. GALVANIZED STEEL PIPE SUPPORTS AS REQUIRED
11. 2"x1½" BUSHING
12. 1½" WATER METER
13. FLOOR DRAIN–PITCH FLOOR TOWARDS DRAIN
14. P–TRAP
15. PIPE TO SEWER–PITCH AND VENT PER CODE
16. 2" PIPE FOR WATER SERVICE
17. WATER PIPING FROM 5 FT. FROM BUILDING TO CEILING PENETRATION SHALL BE COPPER.

DETAIL 7
INCOMING WATER SERVICE
SCALE: ½"=1'–0"
P3.0



DETAIL 8
INDIRECT DRAINAGE PIPING (TYP.)
SCALE: ½"=1'–0"
P3.0



DETAIL 9
WAREWASHER DRAIN AIR GAP KIT
SCALE: NTS
P3.0

REV	DATE	DESCRIPTION	BY

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC/Illumination/Plumbing/Power Distribution/Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesignfx.com

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DAVID W. DAY
NUMBER PE-2010014754
PROFESSIONAL ENGINEER
4/15/26

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DRAWN BY	MES
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD

DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SITE ID: 024–1329

JAWA 26–0041

SHEET NO. P3.0
DETAILS

GENERAL PLUMBING NOTES

GENERAL:

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
2. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.
3. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION. ALL ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH THE MANUFACTURER'S SUBMITTAL INFORMATION.
4. ALL DIMENSIONAL INFORMATION IS AS FOLLOWS (UNLESS NOTED OTHERWISE):
   A. UNDERGROUND PIPE IS TO FOUNDATION
   B. OVERHEAD PIPE IS TO FINISHED WALL
   C. ELEVATIONS ARE TO FINISHED FLOOR
5. ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE McDONALD'S PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE McDONALD'S PROJECT MANUAL SHALL CONTACT THE McDONALD'S AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE McDONALD'S SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.
6. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
7. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. WHERE POOR SOIL CONDITIONS EXIST OR WHERE SUBSTANTIAL SETTLEMENT OF EITHER THE PIPING, THE BUILDING OR ADJACENT WALKS, PLANTERS, ETC., MAY OCCUR, THE CONTRACTOR SHALL PROVIDE ADEQUATE UNDERSLAB STAINLESS STEEL PIPE HANGERS OR APPROVED OTHER SUPPORT.
9. ALL PIPE SLEEVES SHALL BE PROPERLY SEALED AND INSULATED TO PREVENT HEAT LOSS AND SEEPAGE.
10. ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.
11. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.

SANITARY AND VENT SYSTEMS:

1. THE BUILDING SANITARY PIPE SHALL BE LOCATED A MINIMUM OF 10 FT. FROM THE INCOMING WATER SERVICE. WHERE A 10 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
2. ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR CAST-IRON WHERE REQUIRED BY CODE.
3. ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH AS FOLLOWS:

PIPE SIZE	MIN. SLOPE
2½" OR LESS	¼" PER FT.
3" TO 6"	⅛" PER FT.
8" OR LARGER	⅛" PER FT. (MIN)

4. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART. (UNLESS OTHERWISE DICTATED BY LOCAL CODES).
5. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
6. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
7. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
8. CLEANOUTS ON 6-IN. AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 IN. CLEANOUTS ON 8-IN. AND LARGER PIPE SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 36 IN.
9. ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
ABS	4 FT.	10 FT.
PVC (TYPE DWV)	4 FT.	10 FT.
CAST-IRON (<10 FT. PIPE SECTIONS)	5 FT.	15 FT.
CAST-IRON (10 FT. PIPE SECTIONS)	10 FT.	15 FT.

10. ALL PLUMBING FIXTURES SHALL BE VENTED AND THE MAXIMUM DISTANCE FROM THE FIXTURE TRAP TO THE VENT SHALL BE AS FOLLOWS:

TRAP SIZE	SLOPE	DISTANCE
1¼"	¼" PER FT.	2'-6"
1½"	¼" PER FT.	3'-6"
2"	¼" PER FT.	5'-0"
3"	⅛" PER FT.	6'-0"
4" & LARGER	⅛" PER FT.	10'-0"

11. ALL PLUMBING VENTS THROUGH THE ROOF SHALL TERMINATE A MINIMUM OF 12 INCHES ABOVE THE ROOF AND SHALL BE LOCATED A MINIMUM OF 8 FT. FROM ANY PARAPET WALL. WHERE A VENT TERMINATES WITHIN 8 FT. OF A PARAPET WALL, THE VENT SHALL TERMINATE A MINIMUM OF 6 INCHES ABOVE THE PARAPET.
12. ALL PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A PLUMBING VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.
13. ALL SIDE WALL VENT TERMINATIONS SHALL BE PROTECTED TO PREVENT BIRDS OR RODENTS FROM ENTERING OR BLOCKING THE VENT OPENING.
14. ALL FLOOR DRAINS THAT DO NOT SERVE EQUIPMENT SHALL BE PROTECTED AGAINST DRYING OUT EITHER THROUGH THE INSTALLATION OF A TRAP PRIMER, DEEP SEAL TRAP OR PROSET TRAP GUARD. ALL TRAPS SHALL BE FILLED WITH AN INITIAL LAYER OF COOKING OIL.
15. ALL APPLIANCES SHALL DRAIN TO AN APPROVED SANITARY WASTE RECEPTOR (FLOOR SINK OR FLOOR DRAIN WITH FUNNEL). INDIRECT DRAINAGE FROM AN APPLIANCE SHALL MAINTAIN AN AIR GAP BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR. THE MINIMUM DISTANCE BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR SHALL BE TWICE THE DIAMETER OF THE APPLIANCE DRAIN PIPE.
16. ALL VENT AND BRANCH PIPES SHALL BE GRADED AND CONNECTED AS TO DRAIN BACK TO DRAINAGE PIPE BY GRAVITY.

GREASE INTERCEPTORS:

1. SEE SITE PLAN FOR THE SIZE AND LOCATION OF THE GREASE INTERCEPTOR.
2. THE GREASE INTERCEPTOR SHALL BE INSTALLED IN A LOCATION THAT IS ACCESSIBLE FOR PUMPING.
3. THE GREASE INTERCEPTOR SHALL BE CONSTRUCTED OF FIBERGLASS OR ROTATIONALLY-MOLDED POLYETHYLENE. GREASE INTERCEPTOR CONSTRUCTION SHALL CONFORM TO ALL LOCAL CODES. CONCRETE GREASE INTERCEPTORS ARE NOT PERMITTED UNLESS REQUIRED BY THE LOCAL AHJ.
4. GREASE INTERCEPTORS SHALL BE GRAVITY OR HYDROMECHANICAL TYPE, SIZED FOR THE APPLICATION LISTED.
5. THE GREASE INTERCEPTOR SHALL BE VENTED.
6. ACCESS TO THE GREASE INTERCEPTOR SHALL BE PROVIDED WITH TWO (2) 24-IN. MANHOLES. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE A MINIMUM 16,000 LBS. LOAD CAPACITY. ALL SURFACE WATER MUST DRAIN AWAY FROM MANHOLES.
7. PIPING INLET AND OUTLET SIDES SHALL BE CLEARLY LABELED ON THE TOP OF THE GREASE INTERCEPTOR TO INSURE PROPER INSTALLATION.

DOMESTIC SUPPLY SYSTEMS:

1. THE INCOMING WATER SERVICE PIPE SHALL BE LOCATED A MINIMUM OF 10 FT. FROM THE EXITING SANITARY PIPE. WHERE A 10 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
2. ALL UNDERGROUND SITE PLUMBING SHALL CONFORM TO NSF 61, SHALL BE TYPE K COPPER TUBING OR COPPER PIPE, POLYETHYLENE (PE), PEX OR CPVC. IF CPVC IS USED, FOAM INSULATION SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION TO ACCOUNT FOR EXPANSION AND CONTRACTION.
3. EXTERIOR WATER SUPPLY PIPING SHALL BE INSTALLED NOT LESS THAN 6 INCHES BELOW THE FROST LINE AND NOT LESS THAN 12 INCHES BELOW GRADE.
4. INCOMING DOMESTIC WATER SIZE TO BE 2" INNER DIAMETER. FOR PROJECTS WISHING TO DOWNSIZE, A HYDRANT FLOW TEST IS REQUIRED PRIOR TO CONSTRUCTION DOCUMENTS. ENGINEER OF RECORD TO SUBMIT PRESSURE DROP CALCULATIONS AND HYDRANT FLOW TEST TO USRD FOR REVIEW AND APPROVAL OF SMALLER INCOMING DOMESTIC WATER LINE
5. IF PEX PIPING IS USED, ALL MAINS SHALL BE UPSIZED BY 0.5" DIAMETER.
6. INCOMING WATER SERVICE PRESSURE SHOULD BE BETWEEN 50 AND 55 PSI STATIC. WHERE WATER PRESSURE SERVICE EXCEEDS 80 PSI STATIC, AN APPROVED WATER-PRESSURE REDUCING VALVE WITH STRAINER CONFORMING TO ASSE 1003 SHALL BE INSTALLED. WHERE INCOMING WATER PRESSURE IS BELOW 50 PSI STATIC, A PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED.
7. IF THE RESTAURANT HAS A COMBINED WATER AND FIRE SPRINKLER SERVICE, THE INCOMING WATER SERVICE SHALL BE SIZED BASED ON THE FIRE SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS.
8. PROVIDE A MINIMUM ½" ANNULAR CLEARANCE AROUND ALL PIPE SLAB PENETRATIONS.
9. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INCOMING SERVICE WHERE REQUIRED BY CODE. (MIN. 60" A.F.F.)
10. AN EXPANSION TANK SHALL BE INSTALLED ON THE COLD WATER LINE INLET TO THE WATER HEATER. SEE EXPANSION TANK SCHEDULE.
11. ALL WATER SUPPLY PIPE WITHIN 5 FT. OF THE BUILDING AND INSIDE THE BUILDING SHALL COMPLY WITH NSF 61 AND SHALL BE TYPE L COPPER TUBING, COPPER PIPE, PEX OR CPVC PIPE.
12. CPVC PIPE SHALL BE FLOWGUARD GOLD OR FLOWGUARD BENDABLE AS MANUFACTURED BY LUBRIZOL.
13. CPVC PIPE SHALL BE CONNECTED WITH FLOWGUARD GOLD YELLOW LOW-VOC SOLVENT CEMENT AS MANUFACTURED BY IPS WELD-ON OR OATEY.
14. ALL CPVC PIPE SHALL BE INSULATED TO PREVENT EXPOSURE TO GREASE.
15. ALL SUSPENDED PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
COPPER PIPE	12 FT.	10 FT.
COPPER TUBING ≤1¼"	6 FT.	10 FT.
COPPER TUBING >1½"	10 FT.	10 FT.
CPVC ≤1"	3 FT.	10 FT.
CPVC ≥1¼"	4 FT.	10 FT.
PEX ≤1"	2 FT. – 8 IN.	10 FT.
PEX ≥1¼"	4 FT.	10 FT.

16. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INLET TO THE WATER FILTRATION SYSTEM. ALL PIPING DOWNSTREAM OF THE RPZ SHALL BE COPPER OR CROSS-LINKED POLYETHYLENE (PEX).
17. ALL DEVICES, APPLIANCES, AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION (EX.: SODA MACHINE, COFFEE MACHINE, BEVERAGE DISPENSERS, ETC.) SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM. ALL BACKFLOW PREVENTION DEVICES SHALL BE ASSE LISTED AND APPROVED FOR THE DEVICE OR APPLIANCE THEY SERVE.
18. ALL WATER SUPPLY LINES SHALL BE PROVIDED WITH A QUARTER-TURN SHUT-OFF VALVE BEFORE FINAL CONNECTION TO EQUIPMENT.
19. QUARTER-TURN SHUT-OFF VALVES SHALL BE INSTALLED UPSTREAM OF ANY INLINE BACKFLOW PREVENTION DEVICE.
20. ALL VALVES AND BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WITH FITTINGS THAT FACILITATE REMOVAL IN CASE OF FAILURE.
21. ALL OVERHEAD WATER LINES SHALL BE INSULATED PER SCHEDULE THIS SHEET WITH EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7.
22. PRIOR TO BUILDING TURNOVER, THE DOMESTIC WATER SUPPLY SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND DISINFECTED. DISINFECTION SHALL BE DONE IN ACCORDANCE WITH THE LOCAL HEALTH CODE, PLUMBING CODE OR IN ACCORDANCE WITH AWWA C651 OR AWWA C652.

STORM DRAINAGE SYSTEMS:

1. ALL ROOF DRAINS SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODES AND SHALL CONFORM TO ASME A112.21.2M OR A112.3.1.
2. ALL STORM DRAINAGE PIPING SHALL BE ABS, PVC TYPE DWV OR CAST-IRON WHERE REQUIRED BY CODE.
3. ALL SUSPENDED STORM DRAINAGE PIPE SUPPORT REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
4. ALL HORIZONTAL STORM DRAINAGE PIPE PITCH REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
5. ALL HORIZONTAL STORM DRAINAGE PIPE SHALL BE INSULATED WITH 1" THICK EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7 TO PROTECT AGAINST CONDENSATION.
6. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.
7. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
8. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
9. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
10. ROOF DRAINS AND OVERFLOW ROOF DRAINS SHALL BE PIPED INDEPENDENTLY. OVERFLOW ROOF DRAINS SHALL NOT BE CONNECTED TO THE PRIMARY ROOF DRAINAGE SYSTEM.
11. MINIMUM PIPING INSULATION THICKNESS HEATING AND HOT-WATER SYSTEMS (STEAM, STEAM CONDENSATE, HOT-WATER HEATING AND DOMESTIC WATER SYSTEMS). PLEASE REFER TO THE LATEST EDITION OF IECC FOR MINIMUM PIPE INSULATION THICKNESS (TABLE C403.12.3)

PIPING	MINIMUM INSULATION THICKNESS (IN INCHES) PER NOMINAL PIPE OR TUBE SIZE				
NOMINAL PIPE SIZE	<1	1 TO 1.5	1.5 TO <4	4 TO <8	≥8
DOMESTIC COLD WATER (40°F TO 60°F)	0.5	0.5	1.0	1.0	1.0
TEMPERATE HOT WATER (105°F TO 140°F)	1.0	1.0	1.5	1.5	1.5
HOT WATER (141°F TO 200°F)	1.5	1.5	2.0	2.0	2.0
STORM DRAIN (HORIZONTAL)	–	–	1.0	1.0	1.0

MECHANICAL & PLUMBING COMMISSIONING

1. MECHANICAL & PLUMBING ENGINEER OF RECORD: REVIEW IECC CHAPTER 4, SECTION C408.2 FOR MECHANICAL SYSTEMS AND SERVICE WATER-HEATING SYSTEM COMMISSIONING AND COMPLETION REQUIREMENTS. PROJECTS EXCEEDING THE HEATING AND COOLING CAPACITY THRESHOLDS IN SECTION C408.2 SHALL PROVIDE DOCUMENTATION OF A COMPLETED COMMISSIONING PLAN PREPARED BY A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY. ALL REQUIRED COMMISSIONING DOCUMENTATION SHALL BE PROVIDED TO THE OWNER AND MADE AVAILABLE TO THE AHJ UPON REQUEST.

LEGEND

— · — · — · —	COLD WATER PIPING
—·—·—·—·—·—	TEMPERED WATER PIPING (110°F)
— · · — · · —	HOT WATER PIPING (140°F)
— · · · — · · · —	RECIRCULATED HOT WATER PIPING
- - - - - - - -	OVERHEAD LINES (BY P.C.)
— — —SAN— — —	UNDERGROUND SANITARY PIPING
— — —GW— — —	UNDERGROUND GREASE WASTE PIPING
- - - - - - - - - - - -	VENT PIPING
——— ST ———	ABOVE GROUND PRIMARY STORM PIPING
— — — ST — — —	UNDERGROUND PRIMARY STORM PIPING
——— STS ———	ABOVE GROUND SECONDARY STORM PIPING
——— CD ———	CONDENSATE PIPING
	HOSE BIBB
	CHECK VALVE
	BALL VALVE
	THERMOSTATIC MIXING VALVE
	FLOOR DRAIN
	CLEAN-OUT (FLOOR OR YARD)
	FLOOR SINK
	PRESSURE GUAGE
	LOW PRESSURE SWITCH
H	HIGH PRESSURE SWITCH
S	SOLENOID VALVE
	THREE-WAY VALVE
	PRESSURE REGULATOR
	DUAL CHECK VALVE OR RPZ
	DUAL CHECK VALVE WITH ATMOSPHERIC VENT
	STRAINER
	RELIEF VENT
	WATER-HAMMER ARRESTER

ABBREVIATIONS

ACM	AREA CONSTRUCTION MANAGER
AVB	ATMOSPHERIC VACUUM BREAKER
BSI	BEVERAGE SYSTEM INSTALLER
CO	CLEAN-OUT
DC	DOWNSPOUT COVER
DFU	DRAINAGE FIXTURE UNIT(S)
EC	ELECTRICAL CONTRACTOR
FAC	FIRE ALARM CONTRACTOR
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
FPC	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
GC	GENERAL CONTRACTOR
GI	GREASE INTERCEPTOR
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HS	HAND SINK
I.P.S.	IRON PIPE SIZE (ALSO NPS)
KEI	KITCHEN EQUIPMENT INSTALLER
KES	KITCHEN EQUIPMENT SUPPLIER
LAV	LAVATORY
MC	MECHANICAL CONTRACTOR
MHT	MALE HOSE THREADS
MS	MOP SINK
NPS	NATIONAL PIPE THREAD STANDARD
NPT	NATIONAL PIPE THREAD TAPERED
O/O	OWNER/OPERATOR
OH	OVERHEAD
P	PUMP
PC	PLUMBING CONTRACTOR
RC	REFRIGERATION CONTRACTOR
RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
SS	SANITARY SEWER
ST STS	STORM SEWER (PRIMARY) STORM SEWER (SECONDARY)
SVB	ANTI-SIPHON, SPILL RESISTANT VACUUM BREAKER
TAB	TEST AND BALANACE CONTRACTOR
UG	UNDERGROUND
UR	URINAL
V	VENT
WC	WATER CLOSET
WCO	WALL CLEAN-OUT
WSFU	WATER SUPPLY FIXTURE UNIT(S)
YC	YARD CLEAN-OUT

REV	DATE	DESCRIPTION	BY

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC/Illumination/Plumbing/Power Distribution/Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesignts.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2009017822
PROFESSIONAL ENGINEER
4/15/26

PREPARED FOR: McDonald's USA, LLC
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DRAWN BY	MES
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS, WOOD ROOF TRUSS FRAMING
SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
SITE ID: 024-1329
JAWA 26-0041
SHEET NO. P4.0
GENERAL NOTES

COORDINATION SCHEDULE

GENERAL REQUIREMENTS	FURNISH	INSTALL	FINAL CONNECTION	NOTES
MECHANICAL PERMIT	MC			1–3
HOT WORK (WELDING) PERMIT (IF APPLICABLE)	MC			1–3
REFRIGERATION PERMIT (IF APPLICABLE)	KES			1–3
PLUMBING PERMIT	PC			1–3
ELECTRICAL PERMIT	EC			1–3
FIRE SPRINKLER PERMIT (IF APPLICABLE)	FPC			1–3
FIRE ALARM PERMIT (IF APPLICABLE)	FAC			1–3
CONTRACTOR COORDINATION REQUIREMENTS				
HEATING & AIR–CONDITIONING				
ROOFTOP UNITS, INTAKE AND RELIEF	MCD CP	MC		1–5, 17, 22
ROOF CURBS	MCD CP	MC		1–3, 20, 22
GAS PIPING AND GAS PIPE KIT	PC	PC	PC	1–3, 14, 22–23
CONTROLS WIRING	MC	EC	EC	1–3, 19, 22, 24
POWER WIRING	EC	EC	EC	1–3, 19, 22, 24
CONDENSATE TRAP	MC	PC		1–3, 22–23
CONDENSATE PIPING (IF APPLICABLE)	PC	PC		1–3, 22–23
DUCT–MOUNTED SMOKE DETECTOR	MC	MC	EC	1–3, 22, 24
GENERAL EXHAUST SYSTEMS				
EXHAUST FANS	MCD CP	MC		1–3, 17, 22
ROOF CURBS	MCD CP	MC		1–3, 22
CONTROLS (WHERE APPLICABLE)	MC	EC	EC	1–3, 22, 24
POWER WIRING	EC	EC	EC	1–3, 22, 24
TEMPERATURE CONTROLS				
BUILDING AUTOMATION SYSTEM	MCD CP	MC	EC	1–3, 22, 24
REMOTE SENSORS (RH AND/OR TEMPERATURE)	MC	MC	EC	1–3, 22, 24
CONTROLS WIRING (WHERE APPLICABLE)	MC	EC	EC	1–3, 22, 24
POWER WIRING	EC	EC	EC	1–3, 22, 24
DUCTWORK AND ACCESSORIES				
GALVANIZED SHEET METAL DUCTWORK	MC	MC		1–3, 22
EXTERNAL INSULATION	MC	MC		1–3, 22
INTERNAL INSULATION (IF APPLICABLE)	MC	MC		1–3, 22
WEATHERPROOFING (IF APPLICABLE)	MC	MC		1–3, 22
SPIN–IN COLLARS	MC	MC		1–3, 22
FLEXIBLE DUCTWORK	MC	MC		1–3, 22
VOLUME/BALANCING DAMPERS	MC	MC		1–3, 22
FIRE DAMPERS (IF APPLICABLE)	MC	MC		1–3, 22
FIRESTOPPING (IF APPLICABLE)	MC	MC		1–3, 22
AIR DEVICES AND ACCESSORIES	MC	MC	MC	1–3, 7, 22, 28
PLUMBING SYSTEMS				
WATER HEATERS	MCD CP	PC	PC	1–3, 11–12, 23
HOT AND COLD WATER PIPE	PC	PC	PC	1–3, 23
VENTS AND INTAKES	PC	PC	PC	1–3, 23
THERMOSTATIC MIXING VALVE	PC	PC	PC	1–3, 23
POWER AND CONTROL WIRING	EC	EC	EC	1–3, 23–24
KITCHEN EXHAUST SYSTEMS				
McDONALD'S BACKSHELF EXHAUST HOODS	KES	KEI		1–3, 6, 22, 27
CANOPY EXHAUST HOODS (IF APPLICABLE)	KES	KEI		1–3, 6, 22, 27
BLACK IRON DUCTWORK	KES	KEI		1–3, 6, 22
STAINLESS STEEL DUCTWORK (IF APPLICABLE)	KES	KEI		1–3, 6, 22
ALUMINUM DUCTWORK (IF APPLICABLE)	KES	KEI		1–3, 6, 22
UL LISTED DUCT WRAP	MC	MC		1–3, 6, 22
FIRE–RATED DUCT ENCLOSURE (IF APPLICABLE)	GC	GC		1–3, 6, 20, 22
EXHAUST FANS	MCD CP	MC		1–3, 6, 17, 22
ROOF CURBS	MCD CP	MC		1–3, 6, 20, 22
CURB EXTENSIONS	MC	MC		1–3, 6, 22
CONTROLS (WHERE APPLICABLE)	EC	EC	EC	1–3, 6, 22, 24
POWER WIRING	EC	EC	EC	1–3, 6, 22, 24
FIRE SUPPRESSION SYSTEM	KES	KES	KES	1–3, 16, 22, 27
KITCHEN EQUIPMENT				
COOLER/FREEZER	KES	GC		1–3, 27
EVAPORATOR COILS	KES	MC		1–3, 27
CONDENSATE PIPING	PC	PC	PC	1–3, 23, 27
REMOTE CONDENSING UNIT (MAC)	KES	MC		1–3, 22, 27
ROOF CURBS	MC	MC		1–3, 22
REFRIGERANT PIPING	KES	MC	MC	1–3, 22, 27
POWER WIRING	EC	EC	EC	1–3, 22, 24, 27
CONTROL WIRING	EC	EC	EC	1–3, 24, 27
PIPE PORTALS	MC	MC		1–3, 22
ICE MACHINES	KES	KEI		1–3, 27
WATER SUPPLY PIPING	KES	KEI	BSI	1–3, 27
REMOTE CONDENSING UNITS	KES	MC		1–3, 22, 27
ROOF CURBS	MC	MC		1–3, 22, 27
REFRIGERANT PIPING	KES	MC	MC	1–3, 22, 27
POWER WIRING	EC	EC	EC	1–3, 22, 24, 27
CONTROL WIRING	KES	EC	EC	1–3, 24, 27
PIPE PORTALS	MC	MC		1–3, 22
GRILLS	KES	KES		1–3, 27
GAS PIPING (IF APPLICABLE)	PC	PC	PC	1–3, 23, 27
POWER WIRING	EC	EC	EC	1–3, 24, 27
CONTROL CABLE (6' CLAMSHELL ONLY)	MC	EC	EC	1–3, 23, 24, 27
FRYERS	KES	KES		1–3, 27
GAS PIPING (IF APPLICABLE)	PC	PC	PC	1–3, 23, 27
POWER WIRING	EC	EC	EC	1–3, 24, 27
3–COMPARTMENT SINK	KES	KES		1–3, 12, 27
FAUCETS AND PRE–RINSE SPRAYER	KES	KES		1–3, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
HAND SINKS	MCD CP	PC		1–3, 23, 27
FAUCET	MCD CP	PC		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
VEGETABLE SINK	KES	KES		1–3, 23, 27
FAUCET	KES	KES		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
WASHING MACHINE	KES	KES		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
WARE WASHER	KES	KES		1–3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1–3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1–3, 23, 27
MISCELLANEOUS ITEMS				
FIRE SPINKLER SYSTEMS	FPC	FPC	FPC	1–3, 15, 25
HVAC EQUIPMENT START–UP	MC			1–3, 22
TEST, ADJUST AND BALANCE HVAC SYSTEMS	TAB			1–3, 22
DOOR GRILLES (IF APPLICABLE)	MC	GC		1–3, 20, 22
ROOF/WALL OPENINGS	GC			1–3, 20–24
APPLIANCE BACKFLOW PREVENTION	KES/BSI	PC	PC	1–3, 23, 27
CO2 DETECTION SYSTEM	KES/BSI	EC/BSI	EC/BSI	1–3, 22, 27

NOTES:

1. THIS SCHEDULE IS INTENDED AS A GUIDE FOR THE WORK TO BE PERFORMED. ALL WORK SHALL BE COORDINATED BETWEEN THE McDONALD'S AREA CONSTRUCTION MANAGER AND ALL GC AND O/O SUBCONTRACTORS.
2. ONE (1) COPY OF THE DECOR PACKAGE DRAWINGS SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR AND EACH OF THE SUBCONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS TO INSURE THAT THEY HAVE RECEIVED THE DECOR PACKAGE DRAWINGS.
3. FOR ANY WORK NOT CLARIFIED IN THIS SCHEDULE OR IN THE NOTES AND SPECIFICATIONS, PLEASE CONSULT THE McDONALD'S CONSTRUCTION MANAGER FOR SCOPE OF WORK.
4. ALL ROOFTOP UNIT EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND THE KITCHEN EQUIPMENT SUPPLIER SHALL BE ON SITE AT THE SAME TIME FOR A SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED BETWEEN THE CONSTRUCTION MANAGER, MECHANICAL CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER.
5. ALL ROOFTOP UNITS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY EQUIPMENT. THE INSTALLATION OF STANDARD EFFICIENCY ROOFTOP UNITS IS PROHIBITED. PLEASE REFER TO THE LATEST EDITION OF IECC FOR HVAC EQUIPMENT PERFORMANCE REQUIREMENTS.
6. ALL KITCHEN EQUIPMENT REQUIRING EXHAUST SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND THE ENGINEER–OF–RECORD.
7. WHERE GYPSUM BOARD CEILINGS ARE INSTALLED, THE MECHANICAL CONTRACTOR SHALL SUPPLY DRYWALL MOUNTING FRAMES FOR LAY–IN TYPE DIFFUSERS.
8. ALL WORK SHOWN ON P1.6 DRAWING(S) SHALL BE COMPLETED BY THE BEVERAGE SYSTEM INSTALLER (OR K.E.S.) UNLESS OTHERWISE NOTED IN THE PLUMBING DRAWINGS.
9. ALL WORK ON P1.0 & P1.2 DRAWING(S) SHALL BE BY THE PLUMBING CONTRACTOR.
10. THE BEVERAGE SYSTEM INSTALLER FURNISHES, RUNS AND CONNECTS ALL FLEXIBLE WATER AND SYRUP LINES FOR ALL AFFECTED EQUIPMENT INCLUDING THE FOLLOWING:
    A. HOT CHOCOLATE
    B. COFFEE BREWER
    C. ICE MACHINE
    D. O.J.
    E. SODA TOWERS
11. NOT USED.
12. THE CONSTRUCTION MANAGER, PLUMBING CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE WHICH SOILED DISHWASHER (3–COMPARTMENT SINK) IS BEING INSTALLED IN THE RESTAURANT.
13. NOT USED.
14. NOT USED.
15. ALL FIRE PROTECTION DRAWINGS CONTAINED WITHIN THIS SET ARE STRICTLY FOR REFERENCE ONLY. FIRE SPRINKLER DRAWINGS SHALL BE DESIGNED AND PERMITTED BY A FIRE PROTECTION CONTRACTOR.
16. ALL R–102 WET CHEMICAL FIRE SUPPRESSION SYSTEMS FOR TYPE I HOODS SHALL BE DESIGNED AND INSTALLED BY A LOCAL ANSUL AGENT. THE USE OF DRY CHEMICAL SYSTEMS IS PROHIBITED. THE LOCAL ANSUL AGENT CONTRACT IS HANDLED THROUGH THE KITCHEN EQUIPMENT SUPPLIER.
17. ALL ROOFTOP UNITS AND EXHAUST FANS ARE SUPPLIED WITH A FACTORY–INSTALLED DISCONNECT SWITCH.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR REMOTE CONDENSING UNITS.
19. ALL ELECTRICAL CONDUITS FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.
20. WALK–IN COOLER AND WALK–IN FREEZER REFRIGERATION SYSTEMS SHALL MEET THE PERFORMANCE REQUIREMENTS OUTLINED IN THE LATEST EDITION OF IECC. MINIMUM ANNUAL WALK–IN ENERGY FACTOR (AWEF) PROVIDED BY EQUIPMENT MANUFACTURER IS DETERMINED IN ACCORDANCE WITH AHRI 1250.
21. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
22. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
23. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
24. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
25. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
27. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
28. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.
29. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.

EXPANSION TANK SCHEDULE

TAG	MANUFACTURER	MODEL	TOTAL VOL.	CONNECTION	ACCESSORIES
ET–1	AMTROL	ST–12	4.4 GAL.	¾"	–

NOTES:
1. SEE DETAIL 6 ON DRAWING P3.0

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	HP	V	Ø	Hz	ACCESSORIES
P–1	GRUNDFOS	ALPHA 15–29 SU/T	1/35	115	1	60	1–3

ACCESSORIES:
1. TIMECLOCK
2. AQUASTAT INTEGRAL TO PUMP
3. CHECK VALVE

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR TIMECLOCK WIRING
2. DESIGN: 2 GPM, 7 FT. HEAD
3. SEE DETAIL 6 ON DRAWING P3.0

BACKFLOW PREVENTER SCHEDULE

TYPE	MFR.	MODEL	ASSE LISTING	SERVES	LOCATION
AG	FURN. WITH CHEM. SYS.		1055B	CHEMICAL SYSTEM	DIN. RM.–MOP SINK
AG	FURN. WITH CHEM. SYS.		1055B	CHEMICAL SYSTEM	KITCHEN–MOP SINK
AVB	FURN. WITH CHEM. SYS.		1001	CHEMICAL SYSTEM	SUPP. RM.–3–COMP
AVB	FURN. WITH FAUCET		–	MOP SINK FAUCET	SEE DRAWINGS
VB	FURN. WITH HB		1011	WALL HYDRANT	SEE DRAWINGS
DCV	FURN. WITH HB		1052	YARD HYDRANT	TRASH CORRAL
DCV	FURN. WITH HB		1052	ROOF HYDRANT	ROOF
DCV	WATTS	SD–3	1022	SODA TOWERS AND SPEC. COFFEE	
RPZ	WILKINS	375XL–SXL–AG	1013	INCOMING WATER	SUPPORT ROOM
RPZ	WILKINS	375XL–AG	1013	FILTRATION SYSTEM	SUPPORT ROOM

WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	SIZE GAL.	HEATING TYPE	HEATING KW	RECOV. 100°F RT GPH	ELECTRICAL VOLTS	ELECTRICAL Ø	ELECTRICAL Hz	ELECTRICAL F.L.A.
WH–1	RHEEM–RUDD	ES120–54–G	120	ELEC	54	221	208	3	60	150
	BRADFORD WHITE	CEHD120(A)54–3*CF	120							

ACCESSORIES:
1. INSTALLATION KIT

VALVE SCHEDULE

MANUFACTURER	MODEL	TEMP. SETTING	LISTING	SERVES
WATTS	LFMMV	65°F	ASSE 1017,1069,1070	HOBART WAREWASER ONLY
WATTS	LFMMV	110°F	ASSE 1017,1069,1070	CHEMICAL SYSTEM MIXING
WATTS ZURN	LFMMV ZW3870XLT	104°F 104°F	ASSE 1017,1069,1070	LAVS & HAND SINKS MIXING
WATTS	LFUSG–B	110°F	ASSE 1016, 1070	VEGETABLE PREP. SINK MIXING
B & G	CB–1/2	–	–	RECIRC. SYSTEM BALANCING VALVE
NIBCO	585–70–HC	–	–	CHEMICAL SYSTEM SHUT–OFF
NIBCO	S–FP–600A–LF	–	–	RESTROOM SHUT–OFF
NIBCO	S–FP–600A–LF	–	–	COMBI OVEN WATER SHUT OFF
WATTS	LFFBV–PEX	–	–	COMBI OVEN RO WATER SHUT OFF

INTERCEPTOR SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	NOTES
GI–1	EXTERIOR GREASE INTERCEPTOR	ZURN – GREEN TURTLE	PROCEPTOR MODEL GMC 1300–UPC	6" INLET, 6" OUTLET	1–2, 4

NOTES:
1. SEE GREASE INTERCEPTOR NOTES AND ACCESSORIES ON DRAWING P4.0
2. GREASE INTERCEPTOR IS SIZED FOR CITY SEWER APPLICATIONS ONLY. DO NOT USE FOR SEPTIC FIELDS.
3. FOR SCHIER HYDROMECHANICAL GREASE INTERCEPTOR ORDERING, CONTACT: LEE FLASHER, HUGHES SUPPLY, DIRECT LINE: (407) 509–7626, OR E–MAIL: MCDCOORD@HAJOCA.COM
4. FOR ZURN PROCEPTOR ORDERING, CONTACT HUGHES SUPPLY, DIRECT LINE: (407) 244–7918, OR E–MAIL: MCDCOORD@HAJOCA.COM

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	WATER USE	ACCESSORIES/COMMENTS	
F–1	FAUCET FOR LAV–1	SLOAN	SF–2150	0.5 GPM (0.08 GAL/10 SEC CYCLE)	FAUCET OPERATION: SENSOR	
		ZURN	ZG6950XL–F–1GS			
		CHICAGO FAUCETS	EQ–R11A–21ABCP			
F–2	FAUCET FOR MS–1	ZURN	Z843M4		FAUCET OPERATION: MANUAL SEE DETAIL 2 ON DRAWING P3.0	5' VINYL HOSE WALL HOOK
FCO	6x6 FLOOR CLEAN OUT	ZURN	Z1400–SZ		SEE DRAWINGS FOR PIPE SIZES SEE NOTE 8	
		JAY R. SMITH	4040			
FD–1	6x6 FLOOR DRAIN WITH FUNNEL	ZURN	Z415–SZ1		PIPE SIZE: 3" STRAINER SIZE: 6" NICKEL BRONZE	FUNNEL: ZURN Z329 SEE NOTE 8
		JAY R. SMITH	3510–F25			
FD–2	6x6 FLOOR DRAIN	ZURN	Z415–SZ1		PIPE SIZE: 3" STRAINER SIZE: 6" NICKEL BRONZE	FUNNEL: NONE SEE NOTE 8
		JAY R. SMITH	2005			
FD–3	6x6 FLOOR DRAIN WITH FUNNEL	ZURN	Z415–SZ1		PIPE SIZE: 4" STRAINER SIZE: 6" NICKEL BRONZE	FUNNEL: ZURN Z329 SEE NOTE 8
		JAY R. SMITH	3510–F25			
FD–4	6x6 FLOOR DRAIN	ZURN	Z415–SZ1		PIPE SIZE: 4" STRAINER SIZE: 6" NICKEL BRONZE	FUNNEL: NONE SEE NOTE 8
		JAY R. SMITH	2005			
FS–1	12x12 FLOOR SINK WITH HALF–GRATE	ZURN	ZN1901		PIPE SIZE: 3" DOME STRAINER: ALUMINUM	GRATE: HALF – NICKEL–BRONZE SEE NOTE 8
		JAY R. SMITH	3435			
FS–2	8x8 FLOOR SINK WITH HALF–GRATE	ZURN	ZN1910		PIPE SIZE: 3" DOME STRAINER: ALUMINUM	GRATE: HALF – NICKEL–BRONZE SEE NOTE 8
		JAY R. SMITH	3415			
FS–3	8x8 FLOOR SINK	ZURN	ZN1910		PIPE SIZE: 3" DOME STRAINER: ALUMINUM	GRATE: FULL – NICKEL–BRONZE SEE NOTE 8
		JAY R. SMITH	3415			
HB–1	WALL HYDRANT	WOODFORD	B65		WALL CLAMP: ADJUSTABLE VERIFY WALL THICKNESS	SEE NOTE 3
		ZURN	Z1320–EZ			
		JAY R. SMITH	5519			
HB–2	YARD HYDRANT	WOODFORD	S4H		SEE NOTES 4 & 9	
HB–3	ROOF HYDRANT	WOODFORD	RHY2–MS		(NO DRAIN REQUIRED)	
HS–1	STAINLESS STEEL HAND SINK	ADVANCE TABCO	7–PS–61	1 GPM	ZURN 6922–XL, CHICAGO FAUCET 116.309402ABT	SEE NOTES 6 & 10
HS–2	STAINLESS STEEL HAND SINK – ADA	ADVANCE TABCO	7–PS–26	1 GPM	ZURN 6920–XL, CHICAGO FAUCET 116.309339ABT	SEE NOTES 6 & 10
LAV–1	LAVATORY	KOHLER	K–2882–0		FAUCET: F–1 ~~TROEBRO LAVGUARD2 MODEL #102–E–Z~~ CORIAN COUNTER BY G.C.	SEE NOTE 10 ~~SEE DETAIL 3 ON P3.0~~ SEE NOTE 11
		SLOAN	SS3021			
MS–1	MOP SINK	FIELD FABRICATED	RECESSED – FLOOR (24x24x12)		FAUCET: F–2 INCLUDES HOSE, HOSE BRACKET AND TWO (2) 24"Wx36"H WALL GUARDS SEE DETAIL 2 ON P3.0	
		ADVANCE TABCO	9–OP–24FM–SS			
TD–1	TRENCH DRAIN	ZURN	Z886–DGC		CLASS A STAINLESS STEEL MESH SCREEN GRATE. NO–HUB BOTTOM OUTLET. BOTTOM DOME STRAINER. CLOSED END CAP	
UR–1	ADA WALL–HUNG URINAL	SLOAN	SU–1009	0.125 GPF	FLUSH VALVE: SLOAN SOLIS 8186 ZURN ZTR6203–ULF–LL ¾" I.P.S., 1" TOP SPUD	FLUSH VALVE OPERATION: SENSOR SEE NOTE 2
		ZURN	ZK5755.380.00			
		–	–			
WB–1	WALL BOX FOR WASHING MACHINE	SIOUX CHIEF	696–2313		HAMMER ARRESTERS INCLUDED WITH BOX MOUNTING HEIGHT: 12" A.F.F.	SEE NOTE 7
WB–2	WALL BOX FOR WAREWASHER	SIOUX CHIEF	696–241MF (VERIFY)		MOUNTING HEIGHT: 12" A.F.F.	SEE NOTE 7. ORDER WITH (2) ¾" FHT AND ½" MIP ADAPTERS
WC–1	WATER CLOSET	SLOAN	ST–2009	1.28 GPF	FLUSH VALVE: SLOAN SOLIS 8111 ZURN ZTR6200EV–LL 1" I.P.S., 1½" TOP SPUD	FLUSH VALVE OPERATION: SENSOR SEAT: BEMIS MODEL 2155CT
		ZURN	ZK5655.381.00.03.00			
		–	–			
WC–2	ADA WATER CLOSET	SLOAN	ST–2029 ADA	1.28 GPF	FLUSH VALVE: SLOAN SOLIS 8111 ZURN ZTR6200EV–CC–LL 1" I.P.S., 1½" TOP SPUD	FLUSH VALVE OPERATION: SENSOR SEAT: BEMIS MODEL 2155CT
		ZURN	ZK5655.4MC.00.03.00			
		–	–			
–	SOILED DISHTABLE (3–COMPARTMENT SINK)	–	–		ITEM: 151.46	SEE NOTE 7
–	VEGETABLE PREPARATION SINK	–	–		ITEM: 134.02	SEE NOTE 7
–	WAREWASHER	HOBART	AM16SVLT W/ DRAIN WATER ENERGY RECOVERY		ITEM: 152.08 WALL BOX: WB–2	SEE NOTE 7.PROVIDE MIXING VALVE. TIE ¾" MIXING VALVE OUTLET TO HOBART.
		ECOLAB	XL–HTHH–VV		ITEM: 152.09 WALL BOX: WB–2	SEE NOTE 7.TIE ¾" HW INTO ECOLAB, SPLIT CW¾" TO DTY, ¾" TO VAPOR VENT
–	WASHING MACHINE	–	–		ITEM: 223.07 WALL BOX: WB–1	SEE NOTE 7
WHA	WATER–HAMMER ARRESTER	SIOUX CHIEF	SERIES 650		–	SEE SHEET P1.2
WCO	WALL CLEANOUT	ZURN	Z1446		SEE DRAWINGS FOR PIPE SIZES	INCLUDE VANDAL–PROOF SCREWS IN PUBLIC AREAS
		JAY R. SMITH	9776T			
ROOF DRAINS AND ACCESSORIES						
DC–1	OVERFLOW DOWNSPOUT COVER	ZURN	Z199–SS		SEE DRAWINGS FOR PIPE SIZES	SEE NOTE 8
		JAY R. SMITH	1770–BS		BIRD SCREEN	
RD1–4	COMBINATION MAIN ROOF AND OVERFLOW DRAIN	ZURN	Z165		SEE DRAWINGS FOR PIPE SIZES ROOF OPENING: 30"x14"	SEE NOTE 8

NOTES:
1. SEE McDONALD'S PROJECT MANUAL FOR ADDITIONAL MANUFACTURERS
2. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER URINAL SUPPORT
3. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE INTERIOR BLOCKING ON W/W BUILDING FOR WALL CLAMP
4. YARD HYDRANT IS FOR TRASH CORRAL – SEE SITE PLAN FOR LOCATION
5. PLUMBING CONTRACTOR SHALL ROUTE ⅜" DRAIN PIPE FROM HOSE BIBB TO NEAREST FLOOR DRAIN OR FLOOR SINK
6. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER SINK SUPPORT
7. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION – PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION WITH K.E.S.
8. PLUMBING CONTRACTOR SHALL SPECIFY CONNECTION MATERIAL/TYPE WHEN ORDERING
9. PLUMBING CONTRACTOR SHALL SPECIFY BURY DEPTH WHEN ORDERING
10. PLUMBING CONTRACTOR SHALL PROVIDE GRID DRAIN, P–TRAP AND VALVE STOPS FOR ALL SINKS & LAVS
11. FOR ALTERNATIVE LAVATORY OPTIONS, SUCH AS MOLDED SINKS OR DECK MOUNTED HAND DRYER, PLEASE CONTACT USRD OR HUGHES DIRECTLY.
12. PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, SHALL NOT HAVE MORE THAN 8–PERCENT LEAD CONTENT

TO ORDER PLUMBING FIXTURES, CONTACT HUGHES SUPPLY:
E–MAIL:
MCDCOORD@HUGHESSUPPLY.COM
OR MCDCOORD@HAJOCA.COM

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls
David W. Day
P.O. Box 1640
Anahuac, TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigners.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010041744
PROFESSIONAL ENGINEER
7/22/26

PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED
MES	2026	JAW	04/15/2026

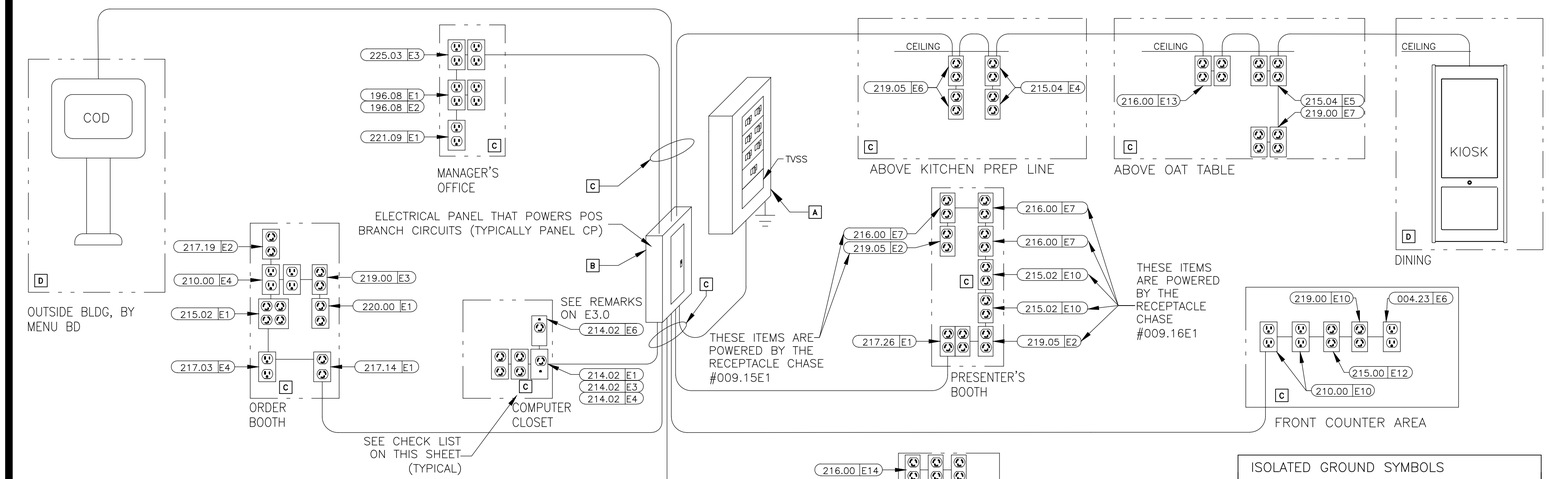
TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
SITE ID: 024–1329

JAWA 26–0041

SHEET NO.: P4.1
SCHEDULES

THE PURPOSE OF THIS SHEET IS TO PROVIDE A CHECKLIST AND VISUAL GUIDE SO THE INSTALLING EC CAN VERIFY THE WORK IS IN COMPLIANCE WITH MCDONALD'S SPECIFICATIONS THAT ARE CRITICAL TO THE PROPER FUNCTIONING OF OUR POINT OF SALE (POS) COMPUTER SYSTEMS.



POS ELECTRICAL RISER DIAGRAM

THIS RISER DIAGRAM SHOWS THE ELECTRICAL ROUGH-INS REQUIRED FOR A TYPICAL POINT OF SALE (POS) SYSTEM IN A FREE STANDING FAST FORWARD RESTAURANT. VERIFY ALL POS ROUGH-INS AND MOUNTING HEIGHTS WITH THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION DRAWINGS.

ISOLATED GROUND SYMBOLS

SYMBOL	DESCRIPTION
	IG2310
	IG4700A
	IG5261
	IG5262
	IG2610

LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION

GENERAL/MATERIALS

1. THE GC OR EC SHALL FURNISH AND INSTALL A COMPLETE LOW VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZING CADDY-ERICO TYPE CAT-32 J-HOOK SUPPORTS (2-INCH DIAMETER LOOP MINIMUM). ALL J-HOOKS SHALL;
   - HAVE A MINIMUM BEARING SURFACE OF 1⅜",
   - HAVE FLARED EDGES TO PREVENT DAMAGE TO HIGH PERFORMANCE CABLES,
   - HAVE AN ELECTRO-GALVANIZED FINISH,
   - HAVE 3/8" WIDE CABLE RETAINING STRAPS,
   - BE UL LISTED AND LABELED,
   - BEAR THE UL SYMBOL MARKING ON THE PART FOR IDENTIFICATION
   - BE INSTALLED PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
2. THE ENTIRE INSTALLATION SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), NEC SECTION 800, BICSI STANDARDS 568 & 569, ALL APPLICABLE NATIONAL, STATE, LOCAL, AND SAFETY CODES, AND McDONALD'S SPECIFICATIONS.

INSTALLATION

1. LOW VOLTAGE J-HOOK CABLE PATHWAY (FOR POS CABLING SYSTEM) SHALL BE PROVIDED FROM THE MANAGERS OFFICE (OR COMPUTER CLOSET) DATA CONDUIT STUB-UP LOCATION TO THE FOLLOWING DATA CONDUIT STUB-UP LOCATIONS (AS APPLICABLE):
   - FRONT COUNTER.
   - PRESENTERS BOOTH.
   - CASHIERS BOOTH.
   - THIRD DRIVE-THRU WINDOW(IF PRESENT).
   - CREW ROOM.
   - VALENCE WALL.
   - REMOTE ORDERING STATIONS.
   - NETPOP TELEPHONE PANEL LOCATION.
   - KIOSK
   - DIGITAL MERCHANDISER

   CABLE SUPPORTS SHALL BE PROVIDED WITHIN 24 INCHES OF THESE STUB-UP LOCATIONS. ALL STUB-UP CONDUITS SHALL BE PROVIDED WITH AN INSULATED BUSHING TO PROTECT CABLES DURING INSTALLATION.
2. THE LOCATION AND ROUTING OF THE LOW VOLTAGE CABLE MANAGEMENT SYSTEM SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH THE OTHER TRADES FINAL INSTALLATIONS, BOTH BEFORE AND AFTER THE CABLE MANAGEMENT SYSTEM AND THE POS CABLING ARE INSTALLED. FINAL INSTALLATION LOCATION SHALL BE READILY ACCESSIBLE TO ALLOW FOR EASE IN INSTALLATION OF THE POS CABLING BY THE POS VENDOR'S INSTALLER.
3. LOW VOLTAGE J-HOOK CABLE SUPPORTS AND APPURTENANCES SHALL BE FASTENED TO THE BUILDING STRUCTURAL AND/OR FRAMING MEMBERS. LOW VOLTAGE J-HOOK CABLE SUPPORTS SHALL NOT BE FASTENED OR UTILIZE THE CEILING GRID SUSPENSION WIRES OR T-BAR GRID FOR INSTALLATION. CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACKETS, HANGERS, RODS, CLAMPS, FLANGES, SUPPORTS, ETC. FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. THE INSTALLATION OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM SHALL BE DONE SO THAT THE ROUTING OF THE CABLES IS PARALLEL TO AND/OR PERPENDICULAR TO FRAMING AND STRUCTURAL BUILDING MEMBERS.
4. LOW VOLTAGE J-HOOK CABLE SUPPORTS SHALL BE INSTALLED A MAXIMUM OF 36 INCHES APART. AT TRANSITION LOCATIONS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL J-HOOKS TO ALLOW FOR A MINIMUM ONE-FOOT RADIUS BEND AND FOR ADDITIONAL CABLE SUPPORT AT THESE TRANSITION POINTS.
5. TO AVOID ELECTROMAGNETIC INTERFERENCE (EMI), ALL PATHWAYS SHALL PROVIDE A MINIMUM CLEARANCE OF 4 FEET (1.2 METERS) FROM MOTORS AND TRANSFORMERS AND A MINIMUM CLEARANCE OF 1 FOOT (0.3 METERS) FROM CONDUIT AND CABLES UTILIZED FOR ELECTRICAL POWER DISTRIBUTION, AND OTHER NON-POS LOW VOLTAGE CONDUCTORS.
6. ANY CEILING TILES IN THE AREA WHERE THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM IS LOCATED SHALL NOT BE INSTALLED UNTIL THE POS VENDOR'S CONTRACTOR COMPLETES THE INSTALLATION OF ALL POS CABLING.
7. ALL NON-POS LOW VOLTAGE CABLING SHALL BE INSTALLED IN A SEPARATE CABLE MANAGEMENT SYSTEM INDEPENDENT OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZED FOR THE POS CABLING.
8. THE POS INSTALLER SHALL BE RESPONSIBLE TO FURNISH AND INSTALL ALL LOW VOLTAGE CABLING REQUIRED FOR THE COMPLETE AND FULLY FUNCTIONAL OPERATION OF THE POS SYSTEM. ALL POS CABLING SHALL BE INSTALLED WITHIN THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM.
9. GENERAL CONTRACTOR TO COORDINATE WITH POS INSTALLER. POS INSTALLER TO PERFORM POS CABLE INSTALLATION PRIOR TO CLOSING OF WALLS AND CEILING.

ELECTRICAL POS CERTIFICATION

AS OF THE DATE BELOW, I HEREBY CERTIFY THAT ALL ELECTRICAL WORK, ELECTRICAL SERVICE AND ELECTRICAL SYSTEMS, MATERIALS AND LABOR RELATED TO THE POS ELECTRICAL INSTALLATION IN WHICH THE UNDERSIGNED ARE DIRECTLY OR INDIRECTLY RESPONSIBLE HAVE BEEN PROPERLY INSTALLED IN FULL COMPLIANCE WITH ALL CONSTRUCTION DOCUMENTS AND ALL NFPA, BUILDING, ELECTRICAL AND OTHER APPLICABLE CODES, ALONG WITH ALL OF THE REQUIREMENTS OUTLINED ON THIS DRAWING. I FURTHER CERTIFY THAT THE ELECTRIC SERVICE POWERING THE POS SYSTEM HAS BEEN PROPERLY INSTALLED BY A QUALIFIED ELECTRICIAN. SKILLED, KNOWLEDGEABLE AND TRAINED TO INSTALL ALL THE REQUIRED ELECTRICAL DISTRIBUTION COMPONENTS NECESSARY TO POWER THE POINT OF SALE (POS) SYSTEM.

GENERAL CONTRACTOR: _____

BY: _____

DATE: _____

ELECTRICAL CONTRACTOR: _____

BY: _____

DATE: _____

START HERE

A VISUALLY INSPECT THE MAIN ELECTRICAL PANEL (MDP)

YES	NO	N/A		
☐	☐	☐	1.	IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
☐	☐	☐	2.	DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
☐	☐	☐	3.	DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
☐	☐	☐	4.	DOES THE ISOLATED GROUND CONDUCTOR (GREEN W/YELLOW STRIPE) TERMINATE ON THE EQUIPMENT GROUND BAR?
☐	☐	☐	5.	IS THERE AN APPROPRIATE ELECTRICAL CONNECTION (BOND) BETWEEN THE NEUTRAL BAR AND THE EQUIPMENT GROUND BAR?
☐	☐	☐	6.	DOES THE GROUNDING SYSTEM COMPLY WITH MCDONALD'S "BUILDING ELECTRICAL GROUNDING DETAIL"?
☐	☐	☐	7.	IS A SURGE PROTECTOR INSTALLED THAT COMPLIES WITH MCDONALD'S "TVSS INSTALLATION GUIDE" OR DETAIL?
☐	☐	☐	8.	ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
☐	☐	☐	9.	ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?

B VISUALLY INSPECT THE PANEL "CP" THAT POWERS POS

YES	NO	N/A		
☐	☐	☐	1.	IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
☐	☐	☐	2.	IS AN ISOLATED GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY INSULATED FROM THE PANEL?
☐	☐	☐	3.	DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
☐	☐	☐	4.	DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
☐	☐	☐	5.	DO ALL ISOLATED GROUND CONDUCTORS (GREEN W/YELLOW STRIPE) TERMINATE ONLY TO THE ISOLATED GROUND BAR?
☐	☐	☐	6.	ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
☐	☐	☐	7.	ARE ALL POS AND COD CIRCUIT BREAKERS ON THE SAME PANEL?
☐	☐	☐	8.	ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
☐	☐	☐	9.	DO ALL POS & COD CIRCUIT BREAKERS HAVE A LOCKING MECHANISM ON THEIR HANDLES TO PREVENT THEM FROM BEING SHUT OFF BY MISTAKE?
☐	☐	☐	10.	DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL ONE EQUIPMENT GROUND AND ONE ISOLATED GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED (SEE POS & COD ISO GND/DED CKT DETAIL)?

VISUALLY INSPECT ALL REMAINING ELECTRICAL SUBPANELS

YES	NO	N/A		
☐	☐	☐	1.	IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
☐	☐	☐	2.	DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
☐	☐	☐	3.	DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
☐	☐	☐	4.	ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
☐	☐	☐	5.	ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
☐	☐	☐	6.	DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL AND ONE EQUIPMENT GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED? (SEE BUILDING ELECTRICAL GROUNDING DETAIL)

C VISUALLY INSPECT THE POS BRANCH CIRCUITS

YES	NO	N/A		
☐	☐	☐	1.	ARE THE POS BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
☐	☐	☐	2.	IF THE POS BRANCH CIRCUIT IS ROUTED ABOVE GRADE, IS IT IN A METALLIC CONDUIT?
☐	☐	☐	3.	DOES EACH POS BRANCH CIRCUIT CONTAIN: ONE PHASE (BLACK COLORED INSULATION) ONE NEUTRAL (WHITE COLORED INSULATION) ONE EQUIPMENT GROUND (GREEN COLORED INSULATION) ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULATION).
☐	☐	☐	4.	DO ALL POS BRANCH CIRCUITS TERMINATE AT EITHER AN IG4700, IG4710, IG5261, IG5262 RECEPTACLES OR ANY COMBINATION OF THESE?
☐	☐	☐	5.	ARE ALL ELECTRICAL TERMINATIONS TO IG RECEPTACLES MADE WITH SOLID #12 AWG WIRE CAPTURED AROUND THE SCREW BARREL AND SUITABLY TIGHTENED?
☐	☐	☐	6.	ARE ALL BRANCH CIRCUIT CONNECTIONS PROPERLY TIGHTENED?
☐	☐	☐	7.	ARE THE CORRECT AMOUNT AND TYPE OF IG RECEPTACLES PROVIDED AS SHOWN IN THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION?
☐	☐	☐	8.	DO ALL POS RECEPTACLES HAVE ORANGE "COMPUTER ONLY" COVERPLATES?
☐	☐	☐	9.	DO ALL POS BRANCH CIRCUITS COMPLY WITH THE "POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL?

D VISUALLY INSPECT THE POS BRANCH CIRCUIT FOR THE COD & KIOSK

YES	NO	N/A		
☐	☐	☐	1.	ARE THE COD AND KIOSK BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
☐	☐	☐	2.	DOES EACH COD AND KIOSK BRANCH CIRCUIT CONTAIN; - ONE PHASE (BLACK COLORED INSULATION), - ONE NEUTRAL (WHITE COLORED INSULATION), - ONE EQUIPMENT GROUND (GREEN COLORED INSULATION), - ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULATION).
☐	☐	☐	3.	ARE THE COD(S) AND KIOSK(S) POWERED FROM THE SAME PANEL AS THE POS?
☐	☐	☐	4.	DO THE BREAKERS FOR THE COD(S) AND KIOSK(S) HAVE A LOCKING MECHANISM ON THEIR HANDLES THAT WILL PREVENT IT FROM BEING SHUT OFF?
☐	☐	☐	5.	DO THE COD BRANCH CIRCUIT(S) COMPLY WITH THE "POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL?

ARE ALL BOXES CHECKED "YES"?

NO

REWORK ELECTRICAL SYSTEM TO BRING INTO COMPLIANCE WITH MCDONALD'S SPECIFICATIONS

YES

ALL WORK IS NOT CONSIDERED TO MEET MCDONALD'S SPECIFICATIONS UNTIL THE INSTALLED ELECTRICAL SYSTEM SUPPORTS A "YES" ANSWER FOR ALL QUESTIONS ASKED.

AS PART OF THIS PROCESS, THE EC AND THE GC WILL BE REQUIRED TO SIGN THE ELECTRICAL CERTIFICATION DOCUMENT INDICATING THAT THE INSTALLED ELECTRICAL SYSTEM MEETS MCDONALD'S SPECIFICATIONS.

NOTICE:

CHANGES SHALL NOT BE MADE TO THE POS ELECTRICAL SYSTEM AFTER THE POS EQUIPMENT HAS BEEN INSTALLED WITHOUT FIRST NOTIFYING THE POS VENDOR.

IF CHANGES ARE MADE TO THE POS ELECTRICAL SYSTEM AFTER THE CERTIFICATION PROCESS HAS BEEN COMPLETED, THEN A SYSTEM RE-CERTIFICATION SHALL BE REQUIRED.

FINISHED

BY	DESCRIPTION	DATE	REV

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC/Illumination/Plumbing/Power Distribution/Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010019744
PROFESSIONAL ENGINEER
4/15/26

PREPARED FOR: McDonald's USA, LLC
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DRAWN BY	REVIEWED BY	DATE ISSUED
MES	JAW	04/15/2026
STD ISSUE DATE 2026		

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SITE ID: 024-1329

SHEET NO. JAWA 26-0041
E1.0
POS RISER DIAGRAM

TRASH CORRAL POWER:
3/4"C-4#10 & 1#10 GND TO A 20A-1P CB IN PANEL AP-2 FOR WP GFCI DCO. VERIFY EXACT LOCATION AND ALL REQUIREMENTS OF TRASH CORRAL IN FIELD.

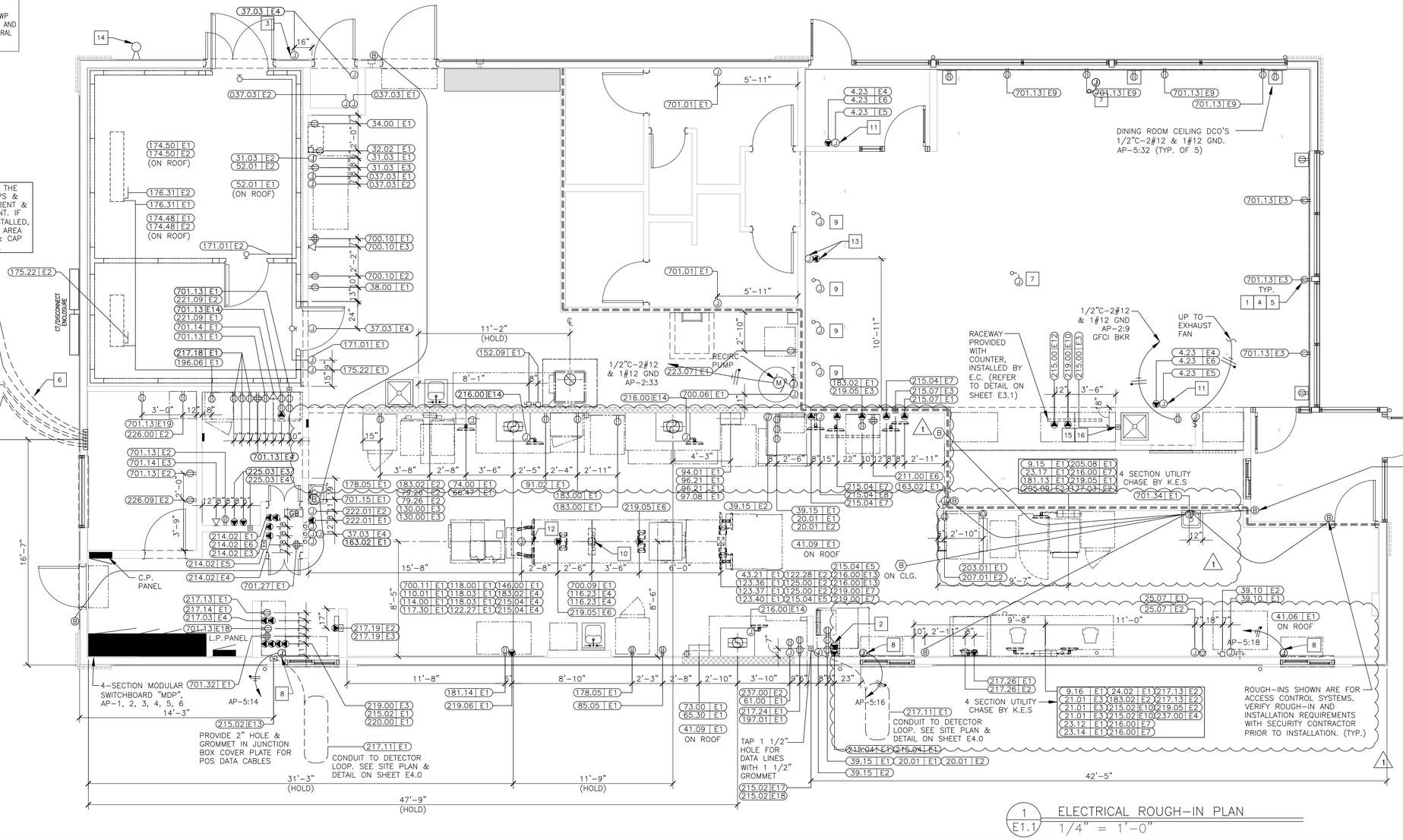
COMPLETE INSTALLATION OF THE SECONDARY DETECTOR LOOPS & C.O.D. COUNDUIT FOR CURRENT & ANY FUTURE D/T EQUIPMENT. IF SECONDARY D/T IS NOT INSTALLED, EXTEND INTO LANDSCAPED AREA BEHIND BUILDING, STUB, & CAP FOR FUTURE ACCESS.

EXTEND 2" CONDUIT TO DT CAMERA MOUNTED ON LIGHT POLE OR OTHER POLE. COORDINATE STUB-UP LOCATION WITH ACM AND DT CAMERA INSTALLER

EXTEND CONDUITS TO OUTDOOR MENU BOARDS FOR DATA CONNECTIONS. REFER TO DRIVE THRU DIAGRAM ON SHEET E4.0

(2) 1-1/2" CONDUIT TO SECONDARY SPEAKER FOR DATA & LOOP DETECTOR SEE CIVIL DRAWINGS 217.10 | E1

(2) 1-1/2" CONDUIT TO PRIMARY SPEAKER FOR DATA & LOOP DETECTOR SEE CIVIL DRAWINGS 217.10 | E1



1 / E1.1 ELECTRICAL ROUGH-IN PLAN
1/4" = 1'-0"

SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE SWITCH, 3W=THREE WAY SWITCH, K=KEYED SWITCHED, VS=VACANCY SENSOR	(B)	BUZZER
T	MANUAL SWITCH (T=THERMAL OVERLOADS)	(B)	BUTTON FOR BUZZER
	TRANSFORMER		PULLBOX
	JB WITH DUPLEX CONVENIENCE OUTLET (FLUSH WITH CEILING)		PANELBOARD
	JB WITH SINGLE CONVENIENCE OUTLET		CIRCUIT BREAKER
	JB WITH DUPLEX CONVENIENCE OUTLET	A	AMPERES
	JB WITH TWO DUPLEX CONVENIENCE OUTLETS	ACM	AREA CONSTRUCTION MANAGER
	JB WITH SPECIAL PURPOSE OUTLET	AFF	ABOVE FINISHED FLOOR
	JB WITH ISOLATED GROUND OUTLET = IG4710, =IG5261, =IG4700A, =IG5262	C	CONDUIT
		CCT	CIRCUIT
	INTERCOM STATION W/ 3/4"C- TO MAIN STATION	EC	ELECTRICAL CONTRACTOR
	TELEPHONE JACK	GC	GENERAL CONTRACTOR
J	JUNCTION BOX - WALL OR CEILING MOUNTED	GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	DISCONNECT SWITCH	GND	GROUND
S	STUB UP THRU ROOF	IG	ISOLATED GROUND
T	THERMOSTAT SENSOR W/ 1/2"C- UP TO CEILING SPACE	JB	JUNCTION BOX
M	MOTOR CONNECTION	KES	KITCHEN EQUIPMENT SUPPLIER
	CONDUIT RUN CONCEALED IN CEILING OR WALLS	MLO	MAIN LUGS ONLY
	CONDUIT RUN IN FLOOR SLAB	WP	WEATHERPROOF
	HOT (SHORT), NEUTRAL (LONG), EQUIP GRD (LONG WITH DOT), & & 'X' DENOTES ISOLATED GRD	CO	CARBON MONOXIDE SENSOR
	J-BOX WITH FINAL EQUIPMENT CONNECTION	GB	GROUND BUS TERMINAL
OS	CEILING MOUNTED OCCUPANCY SENSOR	DS	DAYLIGHT SENSOR

ADT ROUGH-IN NOTES

1. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH ADT PRIOR TO INSTALLATION TEL. 800-417-8238
2. EC SHALL PROVIDE A 2 GANG 3 25/32" X 3 25/32" X 3 1/2"D JUNCTION BOX AT DOOR FOR INSTALLATION OF DOOR ALARM UNIT. STUB 1/2"C ABOVE CEILING FROM JUNCTION BOX. PROVIDE 1/2"C FROM J-BOX TO DOOR MAGNETIC SWITCH LOCATION.
3. EC SHALL PROVIDE 4" X 4" JUNCTION BOX ABOVE CEILING FOR INSTALLATION OF LOW VOLTAGE TRANSFORMER. VERIFY EXACT LOCATION WITH ADT PRIOR TO INSTALLATION. PROVIDE 1/2"C-2#12 TO LOCKOUT TYPE CB IN PANEL LP-1.

GENERAL NOTES

1. SEE SHEET E3.0 FOR PANEL & CIRCUIT BREAKER ASSIGNMENT, VOLT/PH, FLA, BREAKER SIZE, COND/WIRE, RECEPTACLE TYPE, HEIGHT ABOVE FINISHED FLOOR, REQUIREMENTS & REMARKS FOR ALL ELECTRICAL EQUIPMENT.
2. SEE LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION ON SHEET E1.0 FOR POS, DATA, AND SOUND SYSTEM REQUIREMENTS.
3. GC/EC SHALL COORDINATE LOCATION AND ALL REQUIREMENTS OF CT& METER CABINET WITH LOCAL UTILITY COMPANY. CT & METER CABINET SHALL NOT BE INSTALLED ON D/T SIDE OF BUILDING. GC SHALL PAINT TO MATCH BUILDING COLOR.

KEY NOTES

1 TAMPER RESISTANT GFCI DUPLEX RECEPTACLE IN PUBLIC AREAS. EC SHALL PROVIDE HUBBELL GFTRST* ("*": AL=ALMOND, BK=BLACK, -=BROWN, GY=GRAY, I=IVORY, LA=LIGHT ALMOND, R=RED, W=WHITE). SPECIFIED RECEPTACLE BECOMES DE-ENERGIZED UPON FAILURE OF GFCI DEVICE. NO SUBSTITUTIONS.(TYPICAL)

2 SEE POS ELECTRICAL RISER DIAGRAM ON SHEET E1.0. (TYPICAL)

KEY NOTES

3 EC TO FURNISH AND INSTALL A FLUSH MOUNTED JUNCTION BOX WITH WEATHERPROOF GASKET AND OUTDOOR WEATHERPROOF, 24 VOLT CO2 HORN/STROBE UNIT COMPATIBLE WITH CO2 ALARM SYSTEM - EDWARDS GENESIS WGAVRN OR APPROVED EQUAL. STROBE SHALL HAVE AN AMBER COVER AND MEET ALL LOCAL REGULATORY REQUIREMENTS FOR SPECIFICATIONS AND INSTALLATION. PROVIDE A 3/4" CONDUIT STUB-IN INTO BUILDING WITH THERMOPLASTIC BUSHING FROM WEATHERPROOF BACKBOX. PROVIDE FINAL WIRING TERMINATIONS AT HORN/STROBE UNIT AND THEN PROVIDE 36 INCHES OF PIGTAIL WIRING FROM HORN/STROBE INTO THE BUILDING AND NEATLY COIL FOR FINAL CONNECTION. FINAL WIRING CONNECTION FROM OUTDOOR HORN/STROBE PIGTAILS TO THE CO2 ALARM SYSTEM INSTALLATION TO BE PROVIDED BY BEVERAGE INSTALLER.

4 PER THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), A MINIMUM OF ONE (1) ADA COMPLIANT ELECTRICAL RECEPTACLE SHALL BE INSTALLED AT AN ACCESSIBLE TABLE. GC/EC SHALL REFERENCE FINAL DECOR PLANS AND PROVIDE RECEPTACLES AS NECESSARY FOR COMPLIANCE. (TYPICAL)

5 COORDINATE LOCATION OF RECEPTACLES SO THAT RECEPTACLES ARE LOCATED ON FULL HEIGHT WALLS PER THE DECOR PLAN. STUB UP AND CIRCUIT IN HALF WALL FOR RECEPTACLES NOT ON FULL HEIGHT WALLS, CONFIRM FINAL LOCATIONS WITH DECOR DRAWINGS PRIOR TO ROUGH-IN.

6 IF MOUNTED TO A LIGHTING POLE, DT CAMERA SHALL ONLY BE INSTALLED ON A POLE WITH MAXIMUM OF (2) LIGHTING HEADS. PROVIDE ISOLATION OF DT CAMERA MOUNTING HARDWARE AND POLE TO PREVENT BI-METALLIC OR GALVANIC CORROSION.

7 E.C. TO PROVIDE AN ALLOWANCE IN BID TO PROVIDE TWO(2) FLEXIBLE POWER CONNECTIONS FOR POWER TO FURNITURE/ FAMILY EXPERIENCE ELEMENTS AS PART OF THE DECOR PACKAGE. E.C. SHALL VERIFY EXACT LOCATIONS IN FIELD AND WITH DECOR DRAWINGS. PROVIDE ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE AND FULLY NEC CODE COMPLIANT INSTALLATION. ALL COMPONENTS SHALL BE FED FROM A GFCI TYPE CIRCUIT BREAKER AND BRANCH CIRCUIT SHALL CONTAIN TWO PATHS OF GROUNDING (CONDUIT BODY AND AN INSULATED GROUNDING CONDUCTOR) TO COMPLY WITH McDONALD'S GROUNDING STANDARDS.

8 DRIVE THRU WINDOW POWER, CONFIRM REQUIREMENTS WITH MANUFACTURER DRAWINGS.

KEY NOTES

9 PROVIDE POWER FOR CONNECTION TO SELF ORDER KIOSKS. COORDINATE EXACT LOCATION OF KIOSKS WITH DECOR DRAWINGS. PROVIDE 2#12, 1#12 GRD., & 1#12 ISOLATED GROUND ON A 20A DEDICATED CIRCUIT FED FROM THE CP PANEL FOR EVERY KIOSK.

10 VERIFY DROP CORDS AND RECEPTACLES DO NOT FALL BELOW HEIGHTS LISTED ON E3.0 ELECTRICAL SCHEDULE. RECEPTACLES SHOULD BE LOCATED AT HEIGHTS TO AVOID CONTACT WITH HOT APPLIANCES.

11 PROVIDE POWER AND DATA ROUGH-INS FOR DIGITAL MERCHANDISER. EXTEND CIRCUIT TO DINING FROM FRONT COUNTER MERCHANDISER IN SERVICE AREA. EXTEND J-HOOKS FROM SERVICE AREA FOR DATA CABLES. REFER TO 3/E3.1.

12 EC TO INSTALL DROP CORDS JUSTIFIED TO THE DRIVE THRU SIDE OF THE BUILDING.

13 PROVIDE POWER AND DATA ROUGH-INS FOR CASH HANDLERS REFER TO 4/E3.1 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.

14 COORDINATE EXACT LOCATION OF ACCESS POINT IN FIELD WITH ACCENTURE. EC TO PROVIDE A WALL PENETRATION INTO INTERIOR CEILING AT 11'0". PROVIDE #8 GRD CONDUCTOR FROM BUILDING GROUNDING SYSTEM TO BUILDING EXTERIOR WIRELESS ACCESS POINT. FINAL CONNECTIONS TO ACCESS POINT BY ACCENTURE.

15 CONTRACTOR TO PUNCH HOLES IN SERVICE POD FOR CABLE AND CONDUIT ROUTING. UTILIZE BUSHINGS PROVIDE WITH SERVICE POD TO PROTECT CABLES.

16 REFER TO DETAILS ON A3.1 FOR SERVICE AREA ELEVATIONS.

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC/Illumination/Plumbing/Power Distribution/Controls
David W. Day
P.O. Box 1640
Anahuac, TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigns.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010038744
PROFESSIONAL ENGINEER
7/22/26

PREPARED FOR: McDonald's USA, LLC
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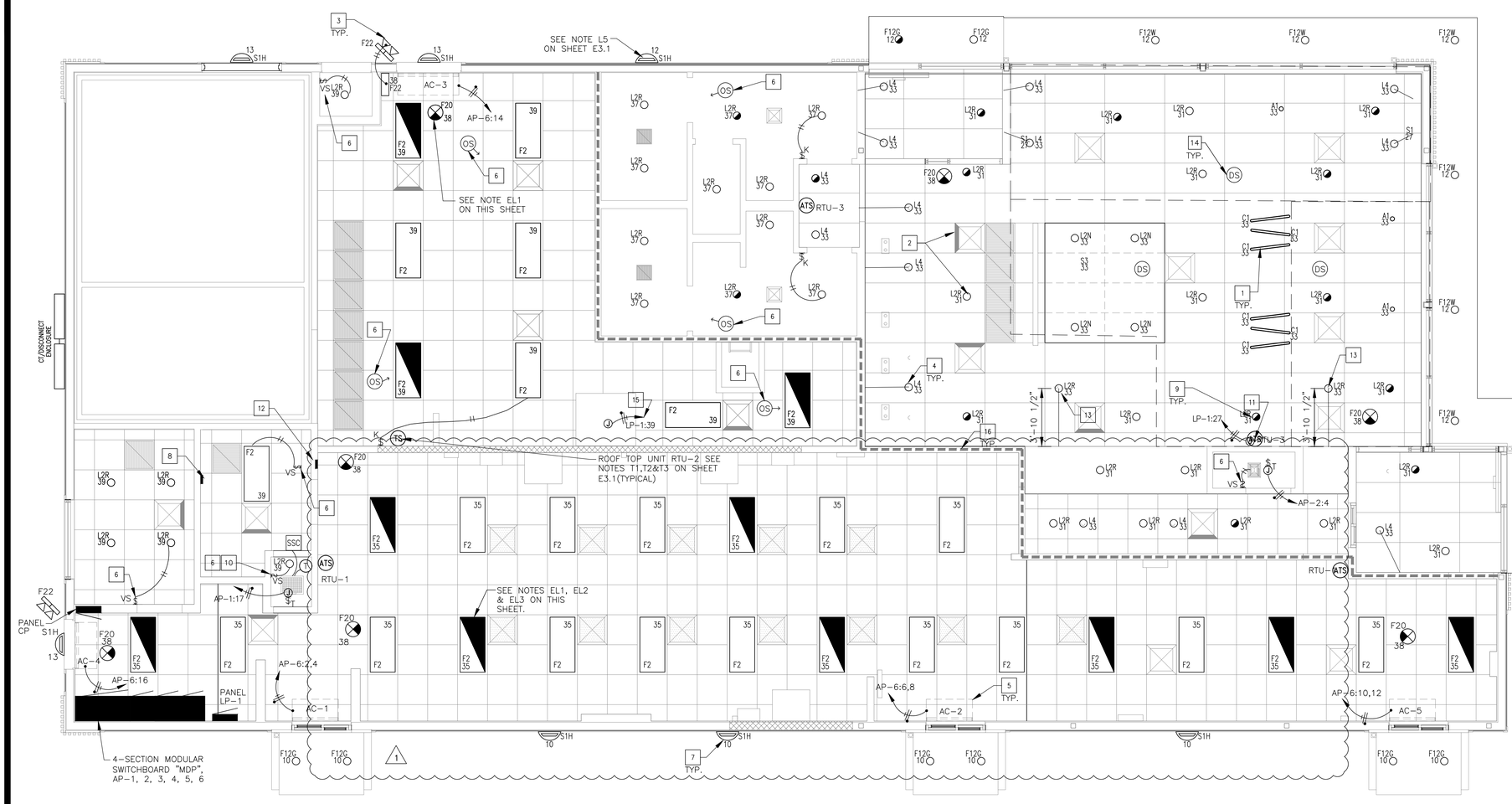
DRAWN BY	MES
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026
TITLE	2026 STANDARD BUILDING - BB20 4590-WOOD/WOOD
DESCRIPTION	WOOD BEARING WALLS WOOD ROOF TRUSS FRAMING
SITE ADDRESS	SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
SITE ID	024-1,329
SHEET NO.	JAWA 26-0041 E1.1 ROUGH-IN PLAN



1 E2.0 LIGHTING FLOOR PLAN
1/4"=1'-0"

SEE SHEET E3.1 FOR GENERAL LIGHTING NOTES AND "ROOF PLAN" (SHEET E2.1) FOR ADDITIONAL ELECTRICAL ROUGH-IN & LIGHTING REQUIREMENTS.

KEY

DENOTES FIXTURE TYPE — F2 41
DENOTES CIRCUIT NUMBER

LIGHTING FIXTURES SHOWN HALF HATCHED SHALL BE WIRED TO AN EMERGENCY INVERTER AND CIRCUITED AS SWITCHED EMERGENCY FIXTURES SO THE FIXTURE IS CONTROLLED VIA TIMECLOCK BUT TURNS ON UPON LOSS OF POWER. SEE NOTE EL3 ON THIS SHEET. COORDINATE LOCATION WITH DECOR.

LIGHTING FIXTURES SHOWN WITH ARROW DENOTES GENERAL DIRECTION TO AIM ADJUSTABLE FIXTURES. VERIFY IN FIELD.

KEY NOTES

1. CENTER PENDANT LIGHTS OVER TABLES (TYPICAL)
2. ALL SOFFIT LOCATIONS, LIGHTING, & SUPPLY GRILLS SHALL BE COORDINATED WITH DECOR COMPANY DRAWING PRIOR TO INSTALLATION.
3. EC SHALL INSTALL AND CONFIGURE REMOTE EMERGENCY LIGHTING AT ALL EGRESS EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGRESS. INSTALL WP J-BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EXTERIOR EMERGENCY EGRESS LIGHTING (TYPICAL).
4. OPTIONAL ADJUSTABLE WALL WASH FIXTURE TO ILLUMINATE LOGO OR GRAPHICS. EC SHALL VERIFY EXACT LOCATION SO AS TO ADEQUATELY ILLUMINATE McDONALD'S ARCH LOGO SIGN AND GRAPHICS.
5. AIR CURTAIN UNIT. NON HEATED VERSION TO USE 1/2"C. 2#12, 1#12GRD. HEATED VERSION TO USE 1"C. 2#6, 1#10 GRD. (TYPICAL).
6. PROVIDE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR OR WALL MOUNTED VACANCY SENSOR AS SHOWN. ORDER ALL SENSORS FROM SECURITY LIGHTING SYSTEMS, INC.
7. RADIAL WALL SCONCE. SEE NOTE L2 ON SHEET E3.1 AND ARCHITECTURAL ELEVATIONS ON SHEETS A2.0 & A2.1. (TYPICAL)
8. BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.
9. PROVIDE LIGHTING INVERTER FOR USE WITH FIXTURES SHOWN SLASHED. MODEL #LG125T SHOULD BE USED FOR L2R, L4 & F12G WITH NOT MORE THAN SEVEN DOWNLIGHTS CONNECTED TO EACH INVERTER, AND NOT MORE THAN TWO F2 FIXTURES. IF DECOR USES ALTERNATE FIXTURES, COORDINATE INVERTER TO BE USED WITH LIGHTING SUPPLIER. E.C. SHALL VERIFY THE QUANTITY OF FIXTURES THAT CAN BE CONNECTED WITHOUT EXCEEDING OPERATING CAPACITY OF UNIT AND PROVIDE ADDITIONAL CIRCUITS AND INVERTERS AS REQUIRED. (TYPICAL)
10. CENTER VACANCY SENSOR SWITCH OPPOSITE COMPUTER RACK IN A LOCATION ACCESSIBLE FROM BOTH DOORS FOR CONTROL OF CEILING MOUNTED LIGHT, IN DATA ROOM. FAN CONTROLLED BY LOCAL THERMOSTAT.
11. PROVIDE POWER FOR LIGHT WITHIN TOY DISPLAY. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.
12. LIGHTING CONTACTORS IN NEMA 1 ENCLOSURE JUST BELOW CEILING. EC SHALL PROVIDE 120 VOLT CONTROL CIRCUIT TO CONTACTOR PANEL. VERIFY EXACT LOCATION IN FIELD AND REFER TO DRAWING E4.1 FOR ADDITIONAL DETAILS.
13. ADJUST FIXTURE TO ILLUMINATE DELIVERY POD SHELVING.
14. NEW DAYLIGHT SENSOR TO BE INSTALLED TO CONTROL DAYLIGHT AREAS IN THE DINNING AREAS. ORDER ALL DAYLIGHT SENSORS FROM; SECURITY LIGHTING SYSTEMS, INC.
15. PROVIDE POWER FOR LIGHT WITHIN EXHAUST HOOD. INTEGRATE INTO LOCAL LIGHTING CONTROLS.
16. DRAFT STOP ABOVE CEILING, SEAL ALL ELECTRICAL PENETRATIONS.

EMERGENCY LIGHTING NOTES

EL1. EC SHALL VERIFY ALL REQUIREMENTS AND FINAL EMERGENCY LIGHTING LOCATIONS WITH LOCAL AUTHORITIES. INCLUDE ALL COSTS IN BASE BID.

EL2. IF NOT INSTALLED BY MANUFACTURER, EC SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE EMERGENCY INVERTER IN SWITCHED EMERGENCY FIXTURES SHOWN ON THIS SHEET.

EL3. LED FIXTURES DENOTED AS SWITCHED EMERGENCY SHALL BE CONNECTED TO AN INVERTER. INVERTER SHALL BE CAPABLE OF ILLUMINATING FIXTURE FOR 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL924.

EL4. EMERGENCY BATTERY LIGHTING WALL PACKS IN PLAYPLACE SHALL BE LOCATED SO AS TO PROVIDE FOR MAXIMUM ILLUMINATION OF AREA. EC SHALL VERIFY EXACT PLACEMENT IN THE FIELD WITH McDONALD'S ACM. (IF APPLICABLE)

EL5. EMERGENCY LIGHTING HAS BEEN DESIGNED PER NFPA 101 TO MAINTAIN 1 FC IN PATH OF EGRESS. IF FIELD CONDITIONS REQUIRE ANY CHANGES TO LIGHTING DESIGN, EMERGENCY LIGHTING, SHALL BE INSTALLED TO MEET THE ABOVE REQUIREMENTS.

McDONALD'S SITE SIGNAGE:

EC SHALL PROVIDE:

ELECTRICAL CONTRACTOR SHALL COORDINATE POWER REQUIRED FOR ROAD SIGN. MOST SIGNS REQUIRE (1) 20 AMP 120V CIRCUIT. IF USED A 90-200 SIGN REQUIRES (4) 20 AMP 120V CIRCUITS OR ONE 1-PHASE 60 AMP 120/208V CIRCUIT. COORDINATE WITH SUPPLIERS DRAWINGS.
(1) 20 AMP 208 VOLT CIRCUIT, EC TO WIRE 2#12 TO 208 VOLT FLAG FLOODLIGHTS.
(1) 20 AMP 120 VOLT CIRCUIT TO D.C.O. IN ROAD SIGN BASE IF REQUIRED.
(2) 20 AMP 120 VOLT CIRCUITS FOR INGRESS/EGRESS DIRECTIONAL SIGNS (IF APPLICABLE).

*VERIFY EXACT LOCATIONS/TYPES/QUANTITIES OF ALL THE ABOVE WITH SITE/CIVIL PLANS AND MCD ACM.

LIGHTING FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS WATTS	LAMPS TYPE	BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER
F2	▭	2' X 4' GRID TROFFER	PRISMATIC ACRYLIC	48W	LED	–	RECESSED	SECURITY LIGHTING: # CBT24-A-LSCS-EDD-HIGH, EMERGENCY FIXTURE # CBT24-A-LSCS-EDD-ELL14-HIGH
L2R	○	4" LED ADJUSTABLE DOWN LIGHT	–	16W	LED	–	RECESSED	SECURITY LIGHTING # RDA-136LM-30-FL-S/RDA-136-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC
L4	○	3" LED ADJUSTABLE DOWN LIGHT	–	7W	LED	–	RECESSED	SECURITY LIGHTING # RDA-60LM-30-NF-S/RDA-60-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC
F12G	○	6" LED DOWN LIGHT – GOLD TRIM	–	12.5W	LED	–	RECESSED	SECURITY LIGHTING # 8542-5CCT
F14B	⫼	METAL PENDANT , YELLOW FINISH	–	20W	LED	–	PENDANT	SECURITY LIGHTING # MPHC-30L-924LM30-Y-CBC

F20	⊗	EXIT SIGN WITH BATTERY BACKUP	–	1.8W	LED	–	SURFACE	SECURITY LIGHTING: EVEURWE. SEE NOTE LS2 ON THIS SHEET.
F21	▭	2 HEADED EMERGENCY BATTERY LIGHT	–	–	LED	–	SURFACE TO WALL OR CEILING	SECURITY LTG. #EV4D
F22	▭	EMERG BATTERY & 2 REMOTE HEADS	–	–	LED	–	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D-02L-0/EVODB
F23	▭	2 HEADED EMERG LIGHT & 2 REMOTE HEAD IF REQ'D	–	–	LED	–	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D/EVODB
S1H	◡	"DOWN ONLY" RADIAL WALL SILVER	TEMPERED GLASS	(1)-14W	LED	–	SURFACE TO WALL	SECURITY LIGHTING: #RWSC-36L-5K-DO-U-PS
F12W	○	6" LED DOWN LIGHT – WHITE TRIM	–	12.5W	LED	–	RECESSED	SECURITY LIGHTING # 8542-5CCT

LIGHTING SCHEDULE NOTES:

ORDER LED EXIT SIGNS WITH LETTER COLORS THAT COMPLY WITH LOCAL CODES.
– FOR RED LETTERS USE #EVE-U-R (UNIVERSAL),
– FOR GREEN LETTERS USE #EVE-U-G (UNIVERSAL), OR
IF THE ABOVE EXIT SIGNS DO NOT COMPLY WITH LOCAL CODES USE: LED SIGN WITH BATTERY BACKUP, LETTER SIZE, COLOR, TYPE & DIRECTIONAL ARROWS AS REQUIRED BY THE LOCAL AUTHORITIES.

ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

LIGHTING FIXTURES HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVEL OF ILLUMINATION. SPECIFICATIONS SHALL BE STRICTLY FOLLOWED. ANY DEVIATION FROM THE SPECIFICATIONS SHALL BE APPROVED IN WRITING BY McDONALD'S CORPORATION.

ORDER ALL LIGHT FIXTURES FROM:

SECURITY LIGHTING SYSTEMS, INC.
PHONE: 1-800-LIGHT-IT (800-544-4848)
EMAIL: SLORDERS@CURRENTLIGHTING.COM

CS ILLUMINATIONS
PHONE: 760-477-1244
EMAILS: MCD@CSILLUMINATIOINS.COM
WWW.CSILLUMINATIONS.COM/MCD

BACK OF HOUSE TROFFERS, EXTERIOR LIGHTING, AND LOT LIGHTING FURNISHED BY MCDONALDS OSSS. ALL OTHER INTERIOR LIGHTING INCLUDING EMERGENCY AND EXIT FURNISHED BY GC

BY	DESCRIPTION	DATE	REV
	PROTOTYPE UPDATES	07/15/2026	1

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC/Illumination/Plumbing/Power Distribution/Controls
David W. Day
P.O. Box 1640
Anahuac, TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010037744
PROFESSIONAL ENGINEER
7/22/26

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PREPARED FOR: McDonald's USA, LLC

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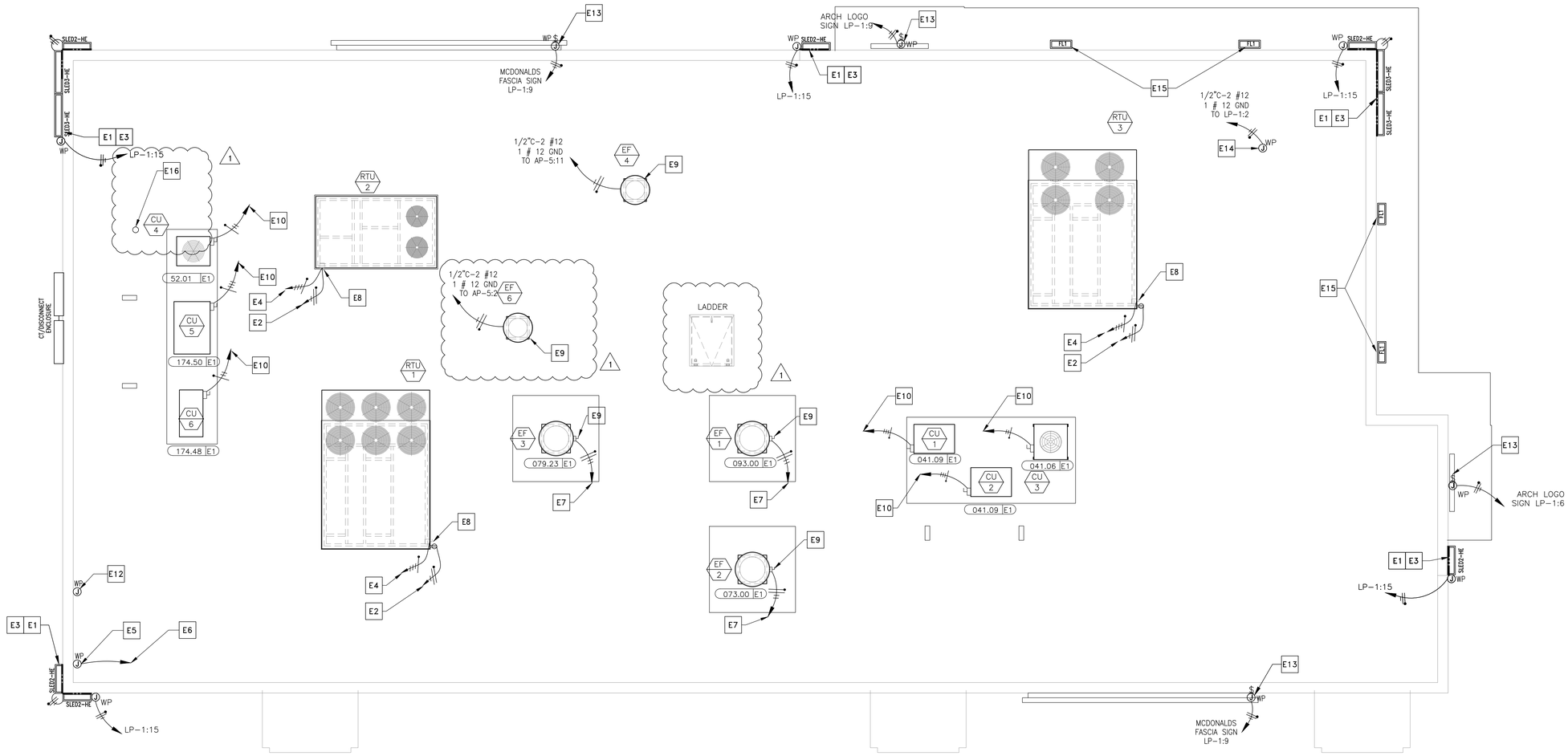
DRAWN BY	REVIEWED BY
MES	JAW
STD ISSUE DATE 2026	DATE ISSUED 04/15/2026

TITLE: 2026 STANDARD BUILDING – B820
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS, WOOD ROOF TRUSS FRAMING

SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
SITE ID: 024-1329

SHEET NO. E2.0 LIGHTING PLAN
JAWA 26-0041



ELECTRICAL ROOF PLAN

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

KEYED NOTES

- **E1** EVERY LINEAR RUN OF SLED FIXTURES REQUIRES A DEDICATED WHIP KIT PROVIDED WITH FIXTURE. CONTRACTOR TO FIELD VERIFY FIXTURE MOUNTING HEIGHT, LOCATION, QUANTITY, FIXTURE LENGTHS, AND ALL ELECTRICAL CONNECTION REQUIREMENTS WITH SECURITY LIGHTING PRIOR TO ORDERING AND INSTALLATION (TYPICAL).
- **E2** WEATHER PROOF RECEPTACLES WITH GFCI PROTECTION ARE PROVIDED AND MOUNTED WITHIN MOTOR HOUSING LOCATIONS PER NEC ARTICLE 210.63. CIRCUIT SHALL EMANATE FROM PANEL AP-5,CCT.#13.(TYPICAL).
- **E3** SMOOTH BRACING IS REQUIRED FOR LED FIXTURE INSTALLATION UNDER COPING/FLASHING.(TYPICAL)
- **E4** REFER TO SHEET E4.0 FOR CONDUIT AND WIRE SIZE.(TYPICAL)
- **E5** E.C SHALL PROVIDE A WEATHER-PROOF J-BOX ON INSIDE FACE OF PARAPET, MOUNTED 6" BELOW TOP OF PARAPET FOR LIGHTING CONTROL PANEL PHOTOCELL. (PHOTOCELL FURNISHED BY OTHERS AND INSTALLED BY EC). REFER TO LIGHTING CONTROL DETAILS ON E4.1
- **E6** TO LIGHTING ENCLOSURE W/ TIMER. COORDINATE WITH LIGHTING CONTROL DETAILS ON SHEET E4.1
- **E7** COOKING EQUIPMENT EXHAUST FANS. SEE SHEET E3.0 FOR ELECTRICAL REQUIREMENTS. SEE SHEET E3.2 FOR EXHAUST FAN INTERLOCK WIRING DIAGRAMS. (TYPICAL)
- **E8** PROVIDE NEMA 3R DISCONNECT WITH CURRENT LIMITING FUSES TO COMPLY WITH NEC 110 AND 440. ELECTRICAL CONTRACTOR SHALL STUB UP THRU RACEWAY IN CURB TO ELIMINATE CONDUIT PENETRATION OF ROOFING. (TYPICAL)
- **E9** EXTERNAL NEMA 3R MOUNTED ON SIDE OF FAN BY MANUFACTURER. ELECTRICAL CONTRACTOR SHALL STUB-UP THRU ROOF AND PROVIDE FLEXIBLE WEATHERPROOF CONDUIT FROM ROOF PENETRATION TO DISCONNECT (TYPICAL).
- **E10** REMOTE CONDENSING UNITS. SEE SHEET E3.0 FOR WIRING AND CIRCUITRY REQUIREMENTS.
- **E11** CANOPY LIGHT. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH MANUFACTURER. VERIFY EXACT INFEED REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E3.1. (TYPICAL)
- **E12** E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX WITH ¾"C STUB DOWN TO CEILING SPACE WITH BUSHING FOR ROOF-TOP CAMERA OR SATELLITE. VERIFY EXACT LOCATION(S) WITH MCD AREA CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- **E13** E.C. SHALL PROVIDE A JUNCTION BOX FOR ARCH LOGO / McDONALD'S FASCIA / PLAY-PLACE SIGN. SEE NOTE L1 ON SHEET E3.1. COORDINATE EXACT LOCATION IN FIELD WITH ACM. ALL SIGNS PROVIDED WITH INTEGRAL DISCONNECT SWITCH FROM MANUFACTURER.(TYPICAL)
- **E14** E.C. SHALL PROVIDE A JUNCTION BOX FOR ROOF-TOP FLAG POLE LIGHTING. VERIFY LOCATION(S) WITH MCD PROJECT MANAGER PRIOR TO INSTALLATION.
- **E15** FLOOD LIGHT MOUNTED ABOVE CANOPY. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH ARCHITECTURAL ELEVATIONS. VERIFY EXACT INFEED REQUIREMENTS IN THE FIELD. SEE FLOOD LIGHT DETAIL ON SHEET E3.1. (TYPICAL)
- **E16** PROVIDE 2" CONDUIT FOR 5G ANTENNA. PROVIDE PORTALS PLUS PLASTI-FLASH WITH C-126 CAP (OR EQUAL) FOR ROOF PENETRATION. TERMINATE CONDUIT A MIN. OF 24" ABOVE FINISHED ROOF WITH GOOSENECK. PROVIDE #6 GND CONDUCTOR FROM BUILDING GROUNDING SYSTEM TO BUILDING EXTERIOR 5G ANTENNA. FINAL CONNECTIONS TO ANTENNA BY ACCENTURE.

DRAWING NOTES

1. SEE DRAWING M-4.0 FOR GENERAL MECHANICAL NOTES.
2. SEE DRAWINGS M-3.0 AND M-4.1 FOR MECHANICAL EQUIPMENT SCHEDULES AND DETAILS.
3. SEE DRAWING M-4.0 FOR MECHANICAL LEGEND.
4. SEE DRAWING K-2.1 FOR REMOTE CONDENSER AND MAC UNIT INFORMATION.
5. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

LED GENERAL NOTES

1. PLACE LED FIXTURE AT DESIRED LOCATION AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
2. EC SHALL CONNECT NEW FIXTURES TO A 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
3. POWER SUPPLY SHALL ALWAYS BE INSTALLED TO THE LEFT SIDE OF FIXTURE WHEN FACING BRAND WALL.

LED FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS		BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER
				WATTS	TYPE			
SLED2-HE	▬	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-10W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: SLED-HE-24-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED3-HE	▬	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-14W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: SLED-HE-36-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED4-HE	▬	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-19W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: SLED-HE-48-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
FL1	▭	UP ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-16W PER FIXTURE	LED	–	SURFACE	SECURITY LIGHTING: RF2-44L-25-5K7-W-UNV-K-IO-JWIO

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesignits.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2009018796
PROFESSIONAL ENGINEER
7/22/26

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DRAWN BY	REVIEWED BY
MES	JAW
STD. ISSUE DATE	DATE ISSUED
2026	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024-1329
SITE ADDRESS: SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

JAWA 26-0041
SHEET NO. E2.1
ELEC. ROOF PLAN

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor
VIF = Verify in Field

ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
004.23E4	2	DIGITAL MERCHANDISER – MEDIA PLAYER	120/1 ISOLATED	1.0	20A	1/2"C–2#12IG	CP:6	IG5262	3'–4"	USE SAME RECEPTACLE AS 4.23E6
004.23E5	2	DIGITAL MERCHANDISER – MEDIA PLAYER	DATA CABLE	–	–	–	–	JB	3'–4"	JB W/ 1" C. TO FULL HEIGHT WALL AND TO ABOVE CEILING W/BUSHINGS. FOR DATA CABLES. SUPPLY W/GROMMETED OPENING IN COVER PLATE
004.23E6	2	DIGITAL MERCHANDISER	120/1 ISOLATED	2.6	20A	1/2"C–2#12IG	CP:6	IG5262	3'–4"	–
009.15E1	1	UTILITY CHASE – FFDT INTERIOR WALL	–	–	–	–	–	–	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.
009.16E1	1	UTILITY CHASE – FFDT EXTERIOR WALL	–	–	–	–	–	–	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.
020.01E1	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	5.0	20A	1/2"C–2#12	AP–1:12, AP–2:24	5–20R	2'–0"	–
020.01E2	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	14.9	20A	1/2"C–2#12	AP–1:6, AP–2:26	5–20R	3'–10"	FOR PRE–COOLER
021.01E3	3	COFFEE BREWER (THERMAL POTS)	120–208/1	15.5	20A	1/2"C–3#12	AP–1:(2,4)(14,16), AP–6:(11,13)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L14–20R RECEPTACLE IN CHASE
023.10E1	1	ESPRESSO BREWER	208/1	21.6	30A	1/2"C–2#10	AP–1:(19,21)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L6–30R RECEPTACLE IN CHASE
023.12E1	1	COFFEE CREAM DISPENSER	120/1	1.0	20A	1/2"C–2#12	AP–1:8	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
023.14E1	1	SUGAR/SWEETENER DISPENSER	120/1	1.5	20A	1/2"C–2#12	AP–1:8	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
024.02E1	1	JUICE DISPENSER	120/1	4.5	20A	1/2"C–2#12	AP–1:8	5–20R	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
025.07E1	1	INFUSION TEA BREWER – MIS	120–208/1	13.0	20A	1/2"C–3#12	AP–2:(32,34)	L14–20R	2'–3"	–
025.07E2	1	INFUSION TEA BREWER – MIS	–	–	–	–	–	JB	2'–3"	FOR WATER LINE TO ICED TEA BREWER IF CHASE IS NOT SPECIFIED. (SEE P1.6)
031.03E1	1	SODA SYSTEM PACKAGE – B.I.B. (RECIRCULATING– 3 TOWERS)	208/3	26.0	30A	3/4"C–3#10	AP–2:(37,39,41)	SEE RMKS	3'–0" SEE RMKS	EC SUPPLIES 30A–3P NF DISC SW MTD 9" BELOW CEILING PER NEC SECT. 404.8(A)
031.03E2	1	SODA SYSTEM PACKAGE – B.I.B. (RECIRCULATING– 3 TOWERS)	–	–	–	–	–	JB	4'–0"	FOR CONTROL WIRES FROM REMOTE CONDENSING UNIT
031.03E3	1	SODA SYSTEM PACKAGE – B.I.B. (RECIRCULATING– 3 TOWERS)	120/1	(2) 6.8	20A	1/2"C–2#12	AP–2:35	5–20R	6'–6"	FOR WATER BOOSTER SYSTEM AND OPTIONAL AIR COMPRESSOR
032.02E1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS	120/1	4.0	20A	1/2"C–2#12 EA.	AP–2:23	5–20R	6'–0"	–
032.04E1	1	WATER FILTRATION SYSTEM	120/1	0.08	20A	1/2"C–2#12 EA.	AP–2:23	5–20R	6'–0"	–
037.03E1	2	CO2 SAFETY SYSTEM – DETECTOR	120/1	1.0	20A	1/2"C–2#12	AP–1:10	JB	SEE RMKS	PROVIDE LOCKOUT CB. SEE MECHANICAL DRAWINGS
037.03E2	2	CO2 SAFETY SYSTEM	–	–	–	–	–	JB	SEE RMKS	FOR LV WIRES. STUB 3/4"C. ABV. CLG. SEE MECHANICAL DRAWINGS
037.03E4	4	CO2 SAFETY SYSTEM – CO2 DETECTOR AV ALARM	–	–	–	–	–	JB	7'–0" MINIMUM	STUB 3/4"C. ABOVE CLG. FOR LV COND. TO 037.03E2. SEE MECHANICAL DRAWINGS
038.00E1	1	CLEAN IN PLACE PANEL	120/1	1.0	20A	1/2"C–2#12	AP–2:21	5–20R	5'–6"	–
039.10E1	1	ICE MACHINE – 1400 LB.	208/3	13.4	20A	1/2"C–3#12	AP–2:(1,3,5)	SEE RMKS	SEE RMKS	EC SUPPLIES 30A–3P NF DISC SW MTD9"BELOW CEILING PER NEC 404.8(A) EX.2 VERIFY W/ AHJ
039.10E2	1	ICE MACHINE – 1400 LB.	–	–	–	–	–	JB	4'–6" SEE RMKS	CONTROL WIRES TO REMOTE CONDENSER
039.15E1	2	ICE MACHINE – 1000 LB.	120/1	1.1	15A	1/2"C–2#12	AP–1:37,39	5–20R	SEE RMKS	MOUNT 9" BELOW CEILING – CIRCUIT BREAKERS SHALL BE HACR TYPE
039.15E2	2	ICE MACHINE – 1000 LB.	–	–	–	1/2"C	–	JB	SEE RMKS	MOUNT 9" BELOW CEILING – CONTROL WIRES TO REMOTE CONDENSER
041.06E1	1	ICE MACHINE REMOTE CONDENSER – 1400 LB.	208/1	1.0	20A SEE RMKS	1/2"C–3#12	AP–1:(26,28)	SEE RMKS	SEE RMKS	EC TO PROVIDE WP 30A–2P NF DISC AT UNIT ON ROOF – CIRCUIT BREAKERS SHALL BE HACR TYPE
041.09E1	2	ICE MACHINE REMOTE CONDENSER – 1000 LB.	208/3	11.1	15A SEE RMKS	1/2"C–3#12 SEE RMKS	AP–1:(32,34,36)(38,40,42)	SEE RMKS	SEE RMKS	EC TO PROVIDE WP 30A–3P NF DISC AT UNIT ON ROOF – CIRCUIT BREAKERS SHALL BE HACR TYPE
043.21E1	1	OPTIMIZED ORDER ASSEMBLY TABLE	120/1	5.4	20A	SEE RMKS	KES BREAKER PANEL	SEE RMKS	SEE RMKS	PLUGS INTO KES OUTLET CHASE FOR HLA
052.01E1	1	SODA SYSTEM PACKAGE REMOTE CONDENSER – 3–TOWER	208/1	2.5	20A SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	SEE RMKS	EC TO PROVIDE 30A–2P DISC SW W/15A FUSE – POWERED BY 31.03 – LOCATION BY ACM
052.01E2	1	SODA SYSTEM PACKAGE REMOTE CONDENSER – 3–TOWER	–	–	–	–	–	–	SEE RMKS	CONTROL WIRES TO SODA SYSTEM – LOCATION BY ACM
061.00E1	1	FRY BAGGING STATION 36"	120/1	12.5	20A	1/2"C–2#12	AP–1:31	JB	4'–0"	–
065.30E1	1	3–VAT LOV FRYER – ELECTRIC – F/F/F	208/3	38.9 EA. VAT	(3) 50A	1"C–3#6 EA. VAT	AP–4:(13,15,17)(19,21,23)(25,27,29)	BY KES	SEE RMKS	PLUGS INTO RACEWAY RECEP WITH(1)L21–20P INTERLOCK PLUG &(3) 15–60P POWER PLUG BY KES
066.47E1	1	4–VAT LOV FRYER – ELECTRIC – S/S/S/S	208/3	38.9 EA. VAT	(4) 50A	1"C–3#6 EA. VAT	AP–3:(1,3,5)(7,9,11)(2,4,6)(8,10,12)	BY KES	SEE RMKS	PLUGS INTO RACEWAY RECEP WITH(1)L21–20P INTERLOCK PLUG &(4) 15–60P POWER PLUG BY KES
073.00E1	1	UNIVERSAL EXHAUST HOOD 3–VAT FRYER	120/1	12.5, 9.8	(2)20A–1P	1/2"C–2#12EA	AP–1:23,24	BY KES	SEE RMKS	EC TO CONN POWER TO RACEWAY FLA = 12.0 FRYER CONTROLS, 0.5 CAPTURE JET & 9.8 INDIVID. EXHAUST FAN INTERLOCK
074.00E1	1	UNIVERSAL EXHAUST HOOD 4–VAT FRYER	120/1	17.6, 13.8	(2)20A–1P	1/2"C–2#12EA	AP–1:29,41	BY KES	SEE RMKS	EC TO CONN POWER TO RACEWAY FLA=3.6 GRILL,13.0 FRYER CONTROLS, 1.0 CAPTURE JET & 13.8 INDIVID EXHAUST FAN INTERLOCK
079.26E2	2	VENTLESS HOOD COMBI OVEN	120/1	8.0	15A	1/2"C–2#12	AP–4:14,16	BY KES	SEE RMKS	EC TO EXTEND DEDICATED CIRCUIT TO 5–15R RECEPTACLE IN CHASE
085.05E1	1	FROZEN FRY DISPENSER	120/1	9.0	20A	1/2"C–2#12	AP–1:27	5–20R	4'–0"	–
091.02E1	1	WALL MOUNT, FREEZER UNIT–SINGLE WIDE, HIGH CAPACITY	120/1	5.0	20A	1/2"C–2#12	AP–5:23	5–20R	7'–6"	–
094.01E1	1	UNIVERSAL EXHAUST HOOD 2–FULL–CLAM GRILLS	120/1	13.9	20A	1/2"C–2#12	AP–2:17	BY KES	SEE RMKS	EC TO CONN. POWER TO RACEWAY FLA = 3.6 GRILL CONTROLS, 0.5 CAPTURE JET & 9.8 INDIVID. EXHAUST FAN INTERLOCK
096.21E1	2	36" NEXT GEN 2 PLATEN CLAMSHELL GRILL – ELECTRIC	208/3	21.7, 43.3	(2)50A	1–1/2"C– 6#4	AP–3:(14,16,18)(20,22,24) AP–4:(1,3,5)(7,9,11)	BY KES	SEE RMKS	PLUGS IN RACEWAY RECEP WITH(1)L21–20P INTERLOCK& (2) 15–50P POWER PLUG EA GRILL
097.08E1	1	MEAT FREEZER – DOUBLE WIDE – HIGH CAPACITY – RIGHT HAND	120/1	7.0	20A	1/2"C–2#12	AP–2:19	5–15R	SEE RMKS	UNIT PLUGS INTO RACEWAY RECEPTACLE
110.01E1	1	OPTIMIZED BREAKFAST TABLE	–	–	–	–	AP–5:9	–	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C4W(Y) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
114.00E1	1	HUMIDIFIED HOLDING CABINET	208/1	9.1	20A	1/2"C–2#12	AP–5:(34,36)	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES – HEIGHT TO BOTTOM OF RECEPTACLE
116.23E4	2	UNIVERSAL HOLDING CABINET – HIGH DENSITY – 2–SIDED – PIN & SLEEVE	208/1	15.2	20A	1/2"C–2#12	AP–5:(4,6)(8,10)	BY KES	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES – HEIGHT TO BOTTOM OF RECEPTACLE
117.30E1	1	UHC TABLE COPL – 2 SIDED – 51"D x 34"W – PIN&SLEEVE	120/1	2.0	20A	1/2"C–2#12	AP–5:12	BY KES	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C4W(Y) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
118.00E1	1	Q'ING OVEN – PIN & SLEEVE	208/1	15.4	20A	1/2"C–2#12	AP–2:(38,40)	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
118.03E1	2	Q'ING OVEN – PIN & SLEEVE	208/1	14.9	20A	1/2"C–2#12	AP–2:(18,20)(28,30)	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(B) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
122.27E1	1	NEXT GEN. UNIVERSAL RADIANT TOASTER – PIN & SLEEVE	208/1	25.2	30A	1/2"C–2#10	AP–5:(27,29)	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 330C6W(B) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
122.28E2	1	NEXT GEN. UNIVERSAL CONTACT TOASTER – PIN & SLEEVE	208/1	25.2	30A	1/2"C–2#10	KES BREAKER PANEL	SEE RMKS	SEE RMKS	PLUGS INTO KES RACEWAY RECEPTACLE
123.36E1	1	ECU TABLE – COPL	208/1	4.9	15A	SEE RMKS	KES BREAKER PANEL	SEE RMKS	SEE RMKS	PLUGS INTO KES OUTLET CHASE.
123.37E1	1	BREAKER PANEL– 125 AMP – 1 PHASE – EQUIPMENT MOUNTED	120–208/1	SEE RMKS	125A	1–1/2C"–3#1	MDP:11	–		EC TO EXTEND AND CONNECT ELECTRICAL SERVICE. HARDWIRE TO KES BREAKER PANEL.
123.40E1	1	PREP TABLE – HD – 2–SIDED COPL – 38"D x 83 1/2" – PIN & SLEEVE W/ REF.	120/1	10.0	20A	SEE RMKS	KES BREAKER PANEL	SEE RMKS	SEE RMKS	PLUGS INTO KES OUTLET CHASE.
125.00E2	2	RAPID BUN STEAMER	208/1	14.3	30A	1/2"C–2#10	KES BREAKER PANEL	SEE RMKS	SEE RMKS	PLUGS INTO KES RACEWAY RECEPTACLE
130.00E3	2	COMBI OVEN	208/3	15.1	30A	1/2"C–3#10	AP–4:(2,4,6)(8,10,12)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L430R9 RECEPTACLE IN CHASE
146.00E1	1	BUTTER WARMER	120/1	0.5	20A	1/2"C–2#12	AP–5:9	BY KES	SEE RMKS	PLUGS INTO EQUIPMENT–MOUNTED RECEPTACLE
152.09E1	1	WAREWASHER – HIGH TEMP	208/3	29.4, 22.3	40A, 30A	3/4"C–3#8, 1/2"C–3#10	AP–5(31,33,35)(37,39,41)	SEE RMKS	SEE RMKS	EC TO SUPPLY 30A & 60A–3P NF DISC SW HANDLE HGT. MTD @ 6'–7" AFF PER NEC 404.8(A). LABEL "WAREWASHER (# OF 2)"IF HOBART IS ORDERED USE (2) 30A BRKRS
163.02E1	4	REMOTE ANSUL PULL	–	–	–	–	–	JB	SEE DETAILS	4" OCTAGONAL, RACO #165 OR EQUAL MUST BE USED.
171.01E1	1	WALK–IN COOLER / FREEZER FLOORLESS	120/1	10.0	20A	1/2"C–2#12	AP–2:14,16	JB	FLUSH ON CLG	JB FOR LIGHTS & DOOR HEATER– UNSWITCHED LIGHT TO BE IN BOTH COOLER & FREEZER,EC TO CONNECT POWER
171.01E2	1	WALK–IN COOLER / FREEZER FLOORLESS	–	–	–	–	–	–	VIF	EC TO FURNISH & INSTALL CONDUIT,WIRE & LIGHT FIXTURES& OTHER DEVICES INSIDE COOLER/FREEZER BOX
174.48E1	1	REMOTE CONDENSING UNIT	208/1	15.0	25A	1/2"C–2#10	AP–5:(38,40)	JB	VIF	EC TO PROVIDE 30A–2P NF DISC AT UNIT ON ROOF. CIRCUIT BREAKERS TO BE HARC RATED.
174.48E2	1	REMOTE CONDENSING UNIT	LOW VOLT WIRES	–	–	–	–	–	VIF	–
174.50E1	1	REMOTE CONDENSING UNIT	208/3	30.3	50A	1"C–3#6	MDP:15	JB	VIF	EC TO PROVIDE 60A–3P NF DISC AT UNIT ON ROOF. CIRCUIT BREAKERS TO BE HARC RATED.
174.50E2	1	REMOTE CONDENSING UNIT	LOW VOLT WIRES	–	–	–	–	–	VIF	–
175.22E1	1	COOLER EVAPORATOR	208/1	1.0	20A	1/2"C–2#12	AP–6:(9,11)	JB	FLUSH ON CLG	–
175.22E2	1	COOLER EVAPORATOR	LOW VOLT WIRES	–	–	–	–	–	FLUSH ON CLG	L V WIRES CONN UNIT TO EVAPS & SHALL BE ROUTED SEPARATELY FROM POWER CONDUCTORS
176.31E1	1	FREEZER EVAPORATOR	208/1	20.3	30A	1/2"C–2#10	AP–6:(13,15)	JB	FLUSH ON CLG	–
176.31E2	1	FREEZER EVAPORATOR	LOW VOLT WIRES	–	–	–	–	–	FLUSH ON CLG	L V WIRES CONN UNIT TO EVAPS & SHALL BE ROUTED SEPARATELY FROM POWER CONDUCTORS
177.03E2	1	REACH–IN REFRIGERATOR–SINGLE WIDE	120/1	2.7	20A	1/2"C–2#12	AP–2:31	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
178.05E1	3	REACH–IN FREEZER–SINGLE WIDE	120/1	11.0	20A	1/2"C–2#12	AP–1:25,30,35	5–20R	7'–6"	–
181.13E1	1	REFRIGERATOR – SPECIALTY COFFEE– 27" WIDE	120/1	3.9	20A	1/2"C–2#12	AP–2:22	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
181.14E1	1	REFRIGERATOR – WORK TOP – 48" WIDE	120/1	5.0	20A	1/2"C–2#12	AP–2:8	5–20R	2'–0"	–
183.00E1	1	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 33" H	120/1	5.0	20A	1/2"C–2#12	AP–5:1	5–20R	2'–0"	–
183.02E1	1	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 30" H	120/1	5.0	20A	1/2"C–2#12	AP–5:3	5–20R	2'–0"	–
183.02E2	2	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 30" H	120/1	5.0	20A	1/2"C–2#12	AP–5:5,7	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
183.02E4	1	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 30" H	120/1	5.0	20A	1/2"C–2#12	AP–5:9	BY KES	SEE RMKS	PLUGS INTO EQUIPMENT–MOUNTED RECEPTACLE
196.06E1	1	SAFE – STANDARD BLDG.	120/1	1.0	20A	1/2"C–2#12	AP–1:7	5–20R	2'–0"	PROVIDE LOCKOUT TYPE CB

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor
VIF = Verify in Field

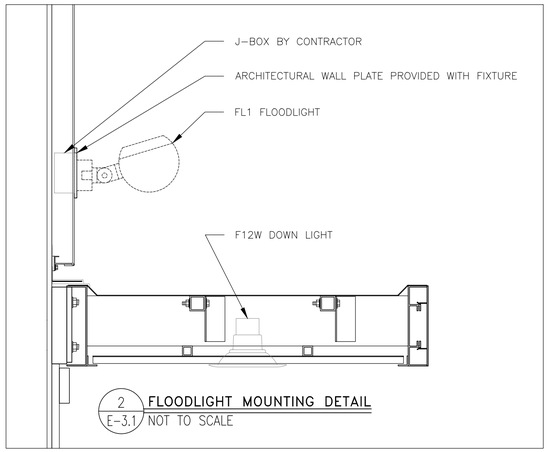
ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
197.01E1	1	HAND WASH TIMER	120/1	0.1	20A	1/2"C–2#12	AP–1:33	5–20R	4'–6"	–
203.01E1	1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	208/3	13.0	30A	3/4"C–3#8	AP–1:(18,20,22)	4x4x4 PB	1'–0"	RECEP #A460R9 BY KES, IF TAYLOR C602 IS ORDERED USE A 40A BRKR & #6 CONDUCTORS –EC MAKES FINAL CONN
205.08E1	1	BIC MACHINE	120/1	8.6	20A	1/2"C–2#12	AP–2:29	BY KES	SEE RMKS	EC TO EXTEND DEDICATED CIRCUIT TO 5–20R RECEPTACLE IN CHASE
205.09E2	1	FROZEN BEVERAGE DISPENSER	208/1	20.0	30A	1/2"C–2#10	AP–5:(17,19)	SEE RMKS	SEE RMKS	RECEP L6–30R IN CHASE BY KES, EC MAKES FINAL CONN
207.01E2	1	BLENDER – MCFLURRY – RAIL MOUNT	120/1	1.2	20A	1/2"C–2#12	AP–2:7	5–20R	4'–0"	
211.00E6	1	DELIVERY TABLETS	120/1	3.0	20A	1/2"C–2#12	AP–5:21	(2) 5–20R	5'–6"	–
214.02E1	1	82" 44U STATIONARY RACK	120/1 ISOLATED	5.0	20A	1/2"C–2#12IG	CP:11	IG4700	2'–0"	FOR NETWORK HARDWARE (GATEWAY/CONTROLLER, SWITCHES & HUBS)
214.02E3	1	82" 44U STATIONARY RACK	120/1 ISOLATED	10.0	20A	1/2"C–2#12IG	CP:15	IG4700	2'–0"	FOR POS SYSTEM SERVERS
214.02E4	1	82" 44U STATIONARY RACK	120/1 ISOLATED	12.0	20A	1/2"C–2#12IG	CP:17	IG2310	4'–0"	FOR OTHER POS SYSTEM & BACK OFFICE HARDWARE
214.02E5	1	82" 44U STATIONARY RACK	DATA CABLE	–	–	–	–	8x6x4 PB	7'–6"	EXTEND (2) 2 1/2" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLES
214.02E6	1	82" 44U STATIONARY RACK	120/1 ISOLATED	14.0	30A	1/2"C–2#10IG	CP:12	IG2610	3'–0"	FOR POS SYSTEM UPS
215.00E12	1	POS REGISTER – FRONT COUNTER	120/1 ISOLATED	3.0 EA.	–	3/4"C–2#12IG	CP:19	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER–MOUNTED RACEWAY
215.00E3	1	POS REGISTER – FRONT COUNTER	DATA CABLE	–	–	–	–	4x4x4 PB	10"	EXTEND 2" CONDUIT TO ABOVE CEILING FOR POS DATA CABLES
215.02E1	1	POS REGISTER – 2 WINDOW D/T	120/1 ISOLATED	3.0 EA.	SEE RMKS	1/2"C–2#12IG	SEE REMARKS	(2)IG4700	2'–5"	IN ORDER BOOTH, CONNECT TO CP:7 – IF INCLUDED IN PRESENTERS BOOTH, CONNECT TO CP:8
215.02E10	2	POS REGISTER – 2 WINDOW D/T	120/1 ISOLATED	3.0 EA.	20A	1/2"C–2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE
215.02E12	1	POS REGISTER – 2 WINDOW D/T	–	–	–	–	–	18x12x4 PB	10"	REFER TO D/T LOW VOLTAGE CONDUIT DIAGRAM FOR CONDUITS UNDER SLAB AND EXTEND (2) 2 1/2"C. TO ABOVE CLG.
215.02E13	1	POS REGISTER – 2 WINDOW D/T	–	–	–	–	–	4x4x4 PB	10"	EXTEND 1 1/2"C. UNDER SLAB TO 217.11E1 AND 2 1/2" C. TO ABOVE CEILING FOR POS DATA CABLES
215.02E17	1	POS REGISTER – 2 WINDOW D/T	–	–	–	–	–	4x4x4 PB	10"	EXTEND 1 1/2"C. UNDER SLAB TO 217.11E1 AND 2 1/2" C. ABOVE TO 215.02E18
215.02E18	1	POS REGISTER – 2 WINDOW D/T	–	–	–	–	–	4x4x4 PB	5'–0"	EXTEND 2 1/2" C. BELOW TO 215.02E17 AND 2 1/2" C. TO ABOVE CEILING FOR POS DATA CABLES
215.04E1	2	POS – KVS MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:8	IG4700	FLUSH ON CLG	–
215.04E4	2	POS – KVS MONITOR	120/1 ISOLATED	1.5	20A	1/2"C–2#12IG	CP:26	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN OEP
215.04E5	2	POS – KVS MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:3	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE
215.04E7	3	POS – KVS MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:23	IG4700	5'–6"	–
215.04E8	1	POS – KVS MONITOR	DATA CABLE	–	–	–	–	4x4x4 PB	4'–0"	EXTEND 2" CONDUIT ABOVE CEILING. CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER
215.07E1	1	POS REGISTER – DELIVERY	120/1 ISOLATED	3.0	20A	1/2"C–2#12IG	CP:23	IG4700	3'–6"	
215.07E3	1	POS REGISTER – DELIVERY	DATA CABLE	–	–	–	–	4x4x4 PB	3'–6"	EXTEND 2" CONDUIT TO ABOVE CEILING FOR POS DATA CABLES
216.00E13	2	POS – VIDEO MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:3	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE
216.00E14	4	POS – VIDEO MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:9	IG4700	SEE RMKS	EXTEND CONDUIT DOWN GRILL HOOD SHROUD AND PROVIDE IG4700 RECEPTACLE
216.00E7	3	POS – VIDEO MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C–2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE
217.03E4	1	POS – COD OPTICAL ISOLATOR	120/1 ISOLATED	1.0	20A	1/2"C–2#12IG	CP:14	IG5262	7'–6"	–
217.10E1	2	REMOTE DETECTOR LOOP	–	–	–	–	–	–	–	1 1/2"CONDUIT–CONN TO PULLBOX#215.03E5,215.01E4, OR 215.02E12 PER DRIVE–THRU CONFIG–SEE SITE PLAN
217.11E1	2	DETECTOR LOOP	–	–	–	–	–	–	–	1 1/2"CONDUIT–CONN TO PULLBOX#215.02E5,215.02E13, OR 215.02E4 PER DRIVE–THRU CONFIG–SEE SITE PLAN
217.13E1	1	MERGE POINT MONITOR (DOUBLE DRIVE THRU)	120/1	2.0	20A	1/2"C–2#12	AP–1:11	5–20R	3'–6"	DO NOT POWER FROM POS CIRCUIT
217.13E2	2	MERGE POINT MONITOR (DOUBLE DRIVE THRU)	120/1	2.0	20A	1/2"C–2#12	AP–1:11	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN CHASE
217.14E1	1	POS– VIDEO MONITOR (DOUBLE DRIVE THRU)	120/1 ISOLATED	1.5	SEE RMKS	1/2"C–2#12IG	CP:7	IG4700	3'–6"	–
217.18E1	3	HAND HELD ORDER TAKER AND MANAGEMENT OF SHIFT EQUIPMENT	120/1	5.0	20A	1/2"C–2#12	AP–1:15	5–20R	4'–6"	–
217.19E2	1	WIRELESS HEADSET BASE STATION	120/1 ISOLATED	1.9	20A	1/2"C–2#12IG	CP:1	IG4700	4'–6"	
217.19E3	1	WIRELESS HEADSET BASE STATION	DATA CABLE	–	–	–	–	4x4x4 PB	5'–0"	
217.24E1	1	DANGER POINT MONITOR (DOUBLE DRIVE–THRU)	120/1	2.0	20A	1/2"C–2#12	AP–1:11	5–20R	8'–0"	DO NOT POWER FROM POS CIRCUIT
217.26E1	1	ZOOM TIMER	120/1 ISOLATED	6.0	20A	1/2"C–2#12IG	CP:10	(2) IG4700	7'–6"	–
217.26E2	1	ZOOM TIMER	DATA CABLE	–	–	–	–	JB	7'–6"	JB W/ 1–1/2" C. TO TERMINATE ABOVE CEILING W/BUSHINGS. FOR DATA CABLES. SUPPLY W/ GROMMETED OPENING IN COVER PLATE
219.00E10	1	POS – RECEIPT PRINTER	120/1 ISOLATED	0.7	20A	3/4"C–2#12IG	SEE RMKS	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER–MOUNTED RACEWAY, POWER FROM SAME CIRCUIT AS 215.00E12
219.00E3	1	POS – RECEIPT PRINTER/CASHLESS	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:4	IG4700	2'–0"	–
219.00E7	2	POS – RECEIPT PRINTER	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:3	BY KES	SEE RMKS	EC TO EXTEND IG CIRCUIT TO IG4700 RECEPTACLE IN KES OUTLET CHASE.
219.05E2	2	STICKY LABEL PRINTER	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND IG CIRCUIT TO IG4700 RECEPTACLE IN CHASE
219.05E3	1	STICKY LABEL PRINTER	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:3	IG4700	3'–2"	–
219.05E6	2	STICKY LABEL PRINTER	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:3	IG4700	FLUSH ON CLG	–
219.06E1	1	LABELING SYSTEM	120/1 ISOLATED	2.0	20A	1/2"C–2#12IG	CP:8	IG5261	2'–0"	–
220.00E1	1	POS – COIN DISPENSER	120/1 ISOLATED	0.75	20A	1/2"C–2#12IG	CP:7	IG4700	2'–0"	–
221.09E1	1	O/O EQUIPMENT RACK	120/1 ISOLATED	4.0	20A	1/2"C–2#12IG	CP:31	IG5262	8'–0"	–
221.09E2	1	O/O EQUIPMENT RACK	DATA CABLE	–	–	2" C	–	4x4x4 PB	8'–0"	EXTEND 2" CONDUIT ABOVE CLG. W/ BUSHING FOR DATA CABLES
222.01E1	1	TIME CLOCK	120/1 ISOLATED	0.5	20A	1/2"C–2#12IG	CP:28	IG4700	4'–0"	–
222.01E2	1	TIME CLOCK	DATA CABLE	–	–	–	–	JB	4'–0"	EXTEND 1" CONDUIT ABOVE CEILING
223.07E1	1	WASHER	120/1	8.0	15A	1/2"C–2#12	AP–1:13	5–15R	3'–6"	–
225.03E3	2	OFFICE PACKAGE/DESK UNIT	120/1 ISOLATED	10.0

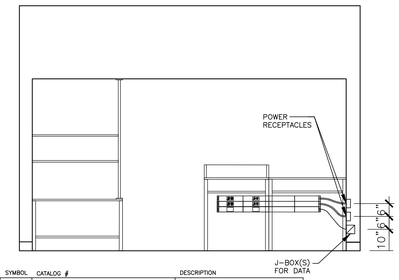
PB = Pullbox
JB = Junction Box
EC = Electrical Contractor
VIF = Verify in Field

ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
701.34E1	1	ACCESS CONTROL PANEL	120/1	2.0	20A	1/2"C-2#12	LP-1:16	JB	8'-0"	ROUTE LOW VOLTAGE WIRES TO DOOR BUTTON, HORN AND DOOR STRIKE AS REQUIRED. SUPPLY WITH 4 RELAY CONTROL BOARD.



2 FLOODLIGHT MOUNTING DETAIL
E-3.1 NOT TO SCALE



SYMBOL	CATALOG #	DESCRIPTION
	HBLAU57OR & IG4700	RECEPTACLE COVERPLATE WITH ORANGE, TAMPER LOCK, ISOLATED GROUND DUPLEX RECEPTACLE
	HBLAU57OR & 5-20R FOR BAKED GOODS AND IG5262 FOR CASH	RECEPTACLE COVERPLATE WITH STRAIGHT BLADE RECEPTACLE
	HBLAU57LPB	COMMUNICATIONS COVERPLATE
	HBLAU7620B02M290	2" SECTION OF RACEWAY, INCLUDES COUPLERS
	HBLAU7620B03M290	3" SECTION OF RACEWAY, INCLUDES COUPLERS
	HBLAU7610B2M2	SERVICE ENTRANCE FITTING & BUSHING FOR DATA CABLES
	HBLAU7610B	BLANK END FITTING
N/A	HBLAU5701	COUPLER (INCLUDED WITH RACEWAY SECTION)
N/A	HBLAU5709	GROUND ADAPTER

NOTES:
1. REFER TO SERVICE POD MANUFACTURER INSTRUCTIONS FOR EXACT PLACEMENT OF RACEWAY

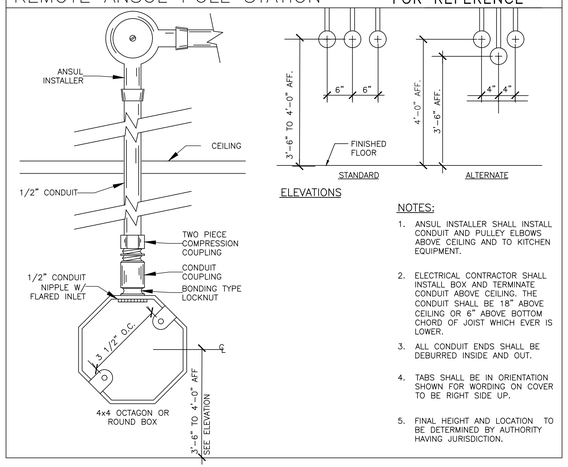
2. RACEWAY AND RECEPTACLES TO BE PROVIDED WITH SERVICE POD, INSTALLED BY CONTRACTOR.

3. DETAIL SHOWN IS A TYPICAL CONFIGURATION ONLY. SITE SPECIFICS MIGHT CAUSE DEVIATIONS.

4. PART NUMBERS SHOWN REFLECT HUBBELL, SOME SUPPIERS MAY USE WIREMOLE EQUIVALENT.

1 SERVICE POD RACEWAY DETAIL
E-3.1 NOT TO SCALE

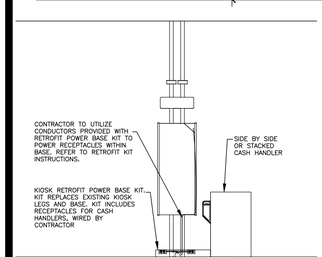
REMOTE ANSUL PULL STATION FOR REFERENCE



ELEVATIONS

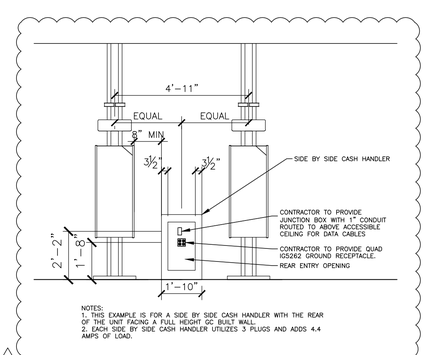
NOTES:

1. ANSUL INSTALLER SHALL INSTALL CONDUIT AND PULLEY ELBOWS ABOVE CEILING AND TO KITCHEN EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL INSTALL BOX AND TERMINATE CONDUIT ABOVE CEILING. THE CONDUIT SHALL BE 18" ABOVE CEILING OR 6" ABOVE BOTTOM CHORD OF JOIST WHICH EVER IS LOWER.
3. ALL CONDUIT ENDS SHALL BE DEBURRED INSIDE AND OUT.
4. TABS SHALL BE IN ORIENTATION SHOWN FOR WORDING ON COVER TO BE RIGHT SIDE UP.
5. FINAL HEIGHT AND LOCATION TO BE DETERMINED BY AUTHORITY HAVING JURISDICTION.



NOTES:
1. THIS EXAMPLE IS FOR A SIDE BY SIDE CASH HANDLER THAT DOES NOT HAVE A GC WALL BEHIND IT AND IS NEXT TO A KIOSK. IT IS ALSO INTENDED FOR ALL STACKED CASH HANDLERS.
2. EACH SIDE BY SIDE CASH HANDLER UTILIZES 3 PLUGS AND ADDS 4.4 AMPS OF LOAD TO THE KIOSK CIRCUIT.
3. EACH STACKED CASH HANDLER UTILIZES 2 PLUGS AND ADDS 3.6 AMPS OF LOAD TO THE KIOSK CIRCUIT.
4. ONLY 1 SIDE BY SIDE CAN BE CONNECTED TO A KIOSK, HOWEVER TWO STACKED UNITS CAN BE CONNECTED. REFER TO DECOR PLANS FOR EXACT CONFIGURATIONS.

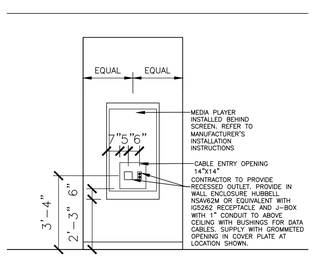
5 TYP. CASH HANDLER POWER DETAIL
E-3.1 NOT TO SCALE



NOTES:
1. THIS EXAMPLE IS FOR A SIDE BY SIDE CASH HANDLER WITH THE REAR OF THE UNIT FACING A FULL HEIGHT GC BUILT WALL.
2. EACH SIDE BY SIDE CASH HANDLER UTILIZES 3 PLUGS AND ADDS 4.4 AMPS OF LOAD.

1

4 CASH HANDLER POWER DETAIL W/REAR TO WALL
E-3.1 NOT TO SCALE



NOTES:
1. THIS EXAMPLE IS FOR A WALL MOUNTED DIGITAL MERCHANDISER.

3 DIGITAL MERCHANDISER POWER DETAIL
E-3.1 NOT TO SCALE

GENERAL ELECTRICAL NOTES:

INSTALLATION METHODS:

M1. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.

M2. ALL DIMENSIONS SHOWN ARE TAKEN FROM FACE OF GYP BOARD/PLYWOOD. THE EC SHALL MAKE NECESSARY DIMENSIONAL ALLOWANCES. ALL DIMENSIONS SHOWN ARE TO CENTER LINE OF OUTLET BOX AND/OR RECEPTACLE UNLESS NOTED OTHERWISE.

M3. ALL J-BOXES, DCOs, AND OTHER ELECTRICAL DEVICES SHOWN SHALL BE RECESSED INTO A WALL, FLOOR OR CEILING UNLESS SPECIFICALLY NOTED OTHERWISE.

M4. ALL RECEPTACLES (EXCEPT SPECIFIED HUBBELL PIN & SLEEVE TYPES) SHALL BE FURNISHED BY THE EC. THE RECEPTACLES INCLUDING PIN AND SLEEVE TYPE SHALL BE INSTALLED BY THE EC.

M5. EC SHALL PROVIDE STAINLESS STEEL COVER PLATES ON ALL RECEPTACLES AND J-BOXES. ADDITIONALLY, EC SHALL PROVIDE ORANGE NYLON COVER PLATES MARKED "COMPUTER ONLY" ON ALL ISOLATED GROUND/DEDICATED CIRCUIT RECEPTACLES. PURCHASE PJ8CO (ONE DUPLEX) OR PJ82CO (TWO DUPLEX) FROM HUBBELL.

M6. ROUGH-INS FOR OPTIONAL EQUIPMENT ARE SHOWN ON THESE SHEETS. EC SHALL VERIFY WITH McDONALD'S PROJECT MANAGER WHICH OPTIONAL EQUIPMENT IS TO BE INCLUDED AND INSTALL OPTIONAL ROUGH-INS AS REQUIRED. PRICING FOR OPTIONAL ROUGH-INS SHALL BE INCLUDED IN BID AND CALLED OUT AS OPTIONAL.

M7. EC SHALL COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER, MECHANICAL CONTRACTOR AND GC FOR FINAL LOCATIONS AND CONNECTION REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION OF ANY CONDUIT AND/OR STUB-UP LOCATIONS.

M8. CEILING MOUNTED ECONOMY OEP BOX IS FURNISHED BY McDONALD'S, AND INSTALLED BY THE GC. CORD AND PLUG SET FURNISHED BY KES AND INSTALLED BY THE EC.

M9. FOR GRILLS, FRYERS, AND ANSUL SYSTEMS, EC SHALL EXTEND CONDUIT AND CONDUCTORS DOWN CHASE OR WALL TO TERMINAL BLOCK MOUNTED ON EQUIPMENT AND MAKE FINAL CONNECTIONS TO TERMINAL BLOCKS.

M10. ALL HOLES IN THE FRONT COUNTER FOR THE POS CORDS AND CABLES SHALL BE LOCATED BY OWNER AND DRILLED BY GC.

M11. ALL ELECTRICAL CONDUCTORS SHALL BE CONNECTED TO RECEPTACLES USING ONLY THE TERMINAL SCREWS. RECEPTACLE BACK WIRE/QUICK CONNECTIONS SHALL NOT BE USED. HUBBELL EDGE CONNECT IS APPROVED ALTERNATIVE.

M12. EC SHALL PROVIDE 208V HEAT TRACE ON THE FREEZER EVAPORATOR CONDENSATE DRAIN LINE. HEAT TRACE SHALL OPERATE CONTINUOUSLY. EC SHALL WIRE HEAT TRACE TO FREEZER EVAPORATOR POWER SUPPLY. A SEPARATE CIRCUIT FOR HEAT TRACE IS NOT REQUIRED. VERIFY HEAT TRACE REQUIREMENTS WITH EVAPORATOR MANUFACTURER

M13. POWER AND CONTROL CORDS ARE FURNISHED WITH KITCHEN APPLIANCES. THE EC SHALL CONNECT CORD SETS TO APPLIANCES AS REQUIRED.

M14. GC SHALL NOT INSTALL CEILING TILE IN AREAS OF THE BEVERAGE BAR REFRIGERATION LINES AND EQUIPMENT PENETRATION LOCATIONS UNTIL THE LINES HAVE BEEN INSTALLED. THE CEILING TILE INSTALLER SHALL RETURN AND INSTALL THE TILES AFTER THE REFRIGERATION LINES HAVE BEEN INSTALLED AND TESTED.

UTILITIES:

U1. INCOMING SERVICE SHALL BE 208Y/120V, 3 PHASE, 4 WIRE. ANY DEVIATIONS TO THIS SERVICE TYPE SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY McDONALD'S.

U2. THE EC SHALL ARRANGE WITH THE ELECTRIC, TELEPHONE, AND OTHER UTILITY COMPANIES FOR INCOMING SERVICE REQUIREMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID.

U3. THE EC SHALL VERIFY EXACT METHODS AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY. CURRENT TRANSFORMERS SHALL BE INSTALLED OUTSIDE RESTAURANT, LOCATE INSIDE ONLY IF REQUIRED BY UTILITY COMPANY OR LOCAL AUTHORITIES.

U4. PROVIDE CONCRETE PAD IF TRANSFORMER IS LOCATED ON GRADE AND PROVIDE SECONDARY SERVICE FEEDER AND CONDUITS TO PANEL MDP AS PER LOCAL UTILITY REQUIREMENTS.

U5. THE EC/GC/ACM SHALL OBTAIN AVAILABLE SHORT CIRCUIT CURRENT FROM THE LOCAL UTILITY COMPANY. THE EC/GC/ACM SHALL ADVISE IN WRITING (FAX SUPPLIER THE UTILITY LETTER) THE AVAILABLE AMOUNT OF FAULT CURRENT. THE PANELBOARD SUPPLIER SHALL BE RESPONSIBLE TO VERIFY THAT THE ELECTRICAL EQUIPMENT SHIPPED HAS APPROPRIATE ELECTRICAL RATINGS WHICH ARE EQUAL TO OR GREATER THAN THE AVAILABLE AMOUNT OF FAULT CURRENT AT THE SITE.

U6. EC AND ACM OR OWNER/OPERATOR AND ACM SHALL COORDINATE WITH LOCAL PHONE COMPANY TO PROVIDE A 10 PAIR (OR MORE) COPPER TELEPHONE CABLE FROM THE TELEPHONE UTILITY EASEMENT TO THE RESTAURANT TELEPHONE DEMARCATION POINT. IF THE TELEPHONE PANEL/BOX IS LOCATED INSIDE THE RESTAURANT, EC SHALL PROVIDE (2) EMPTY 3/4" CONDUITS FROM THE TELEPHONE PANEL/BOX UP TO ABOVE THE CEILING FOR FUTURE TELEPHONE CABLE INSTALLATION. ADDITIONALLY, THE EC SHALL PROVIDE AN EMPTY 3/4" CONDUIT FROM THE TELEPHONE PANEL/BOX TO THE LOCATION OF THE FUTURE INTERNET SERVER (VERIFY LOCATION WITH PM). EC SHALL CONNECT, INSTALL AND INCORPORATE ALL OTHER REQUIREMENTS NECESSARY FOR COMPLETE AND OPERATIONAL TELEPHONE SYSTEM(S) FOR THIS SITE. THE REMAINING UNUSED TELEPHONE CONDUCTOR PAIRS SHALL BE CAPPED AND LEFT IN PLACE FOR FUTURE USE. THE TELEPHONE PANEL/BOX SHALL BE GROUNDED AS SHOWN IN THE "BUILDING ELECTRICAL GROUNDING DETAIL."

U7. EC SHALL PROVIDE A 4" SCHEDULE 40/80 PVC CONDUIT THAT IS SUITABLE FOR DIRECT BURIAL FROM BUILDING TO UTILITY EASEMENT/ROW IN UTILITY CABLING/CONDUIT TRENCH PROVIDED BY GC. CONDUIT SHALL RUN FROM INCOMING TELCOM LOCATION AT BUILDING TO TELECOM PEDESTAL LOCATION IN UTILITY EASEMENT/ROW. VERIFY EXACT LOCATIONS IN FIELD WITH AREA CONSTRUCTION MANAGER AND TELECOM UTILITY PROVIDER PRIOR TO INSTALLATION.

INSTALLATION NOTES:

1. IF TELCOM CONDUIT IS TERMINATED WITHIN BUILDING, PVC SHALL TRANSITION TO HWG/RMC TYPE CONDUIT PRIOR TO RISING ABOVE FINISHED SLAB.
2. PROVIDE THERMOPLASTIC BUSHINGS AT BOTH ENDS OF CONDUIT FOR CABLING PROTECTION.
3. IF 90 DEGREE BENDS ARE REQUIRED, CONTRACTOR SHALL PROVIDE WIDE SWEEPING BENDS TO PREVENT BENDING/DAMAGE TO CABLE
4. ALL COMMUNICATIONS CABLING SHALL BE PULLED VIA THIS CONDUIT.
5. INSTALL A MINIMUM OF 6 PULL WIRES IN CONDUIT TO ALLOW FOR THE INSTALLATION OF FUTURE CABLING. USE NON-DEGRADING POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE OR #12 AWGT SOLID COPPER CONDUCTORS WITH NOT LESS THAN 200 LBF TENSILE STRENGTH. PROVIDE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
6. AFTER INSTALLATION OF COMMUNICATIONS CABLING AND PULLSTRINGS/WIRES, CONTRACTOR SHALL SEAL BOTH ENDS OF CONDUIT TO PREVENT INTRUSION FROM WEATHER, RODENTS, DEBRIS, ETC. SEAL SHALL BE OF TYPE TO ALLOW FOR REMOVAL FOR INSTALLATION OF FUTURE CABLING

CONDUIT AND WIRE:

W1. THE FOLLOWING WIRING METHODS SHALL NOT BE USED: NON-METALLIC SHEATHED CABLE (ROMEX, NM, NMC, & NMS), ARMORED CABLE TYPE AC (BX), ELECTRICAL NON-METALLIC TUBING, TYPE ENT (SMURF-TUBE).

W2. CONDUIT RUNS MAY BE COMBINED EXCEPT WHERE ISOLATED GROUNDS ARE USED. IG CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS. ALL HOME RUNS SHALL BE SIZED BASED ON DERATED CONDUCTOR AMPACITIES AND INCREASE CONDUIT AND WIRE SIZE AS REQUIRED BY NEC SECTION 310 REQUIREMENTS.

W3. CONDUIT SHALL HAVE A MAXIMUM OF 4 BENDS WITHOUT A JUNCTION BOX TO PREVENT DAMAGE TO CABLE DURING PULLING. THE EC SHALL PIGTAIL #12 PULL WIRE AT EACH END FOR INSTALLER TO PULL CABLE. ALL LOW VOLTAGE CONDUIT STUB-UPS SHALL BE PROVIDED WITH A BUSHING.

W4. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS NOTED OTHERWISE. WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW.

W5. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER. ALUMINUM CONDUCTORS SHALL NOT BE UTILIZED FOR FEEDER OR BRANCH CIRCUIT DISTRIBUTION.

W6. RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS, INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES:

OUTDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

1. EXPOSED: RMC, IMC.
2. CONCEALED: RMC, IMC.
3. BELOW GRADE, SINGLE RUN: RNC, RMC.
4. BELOW GRADE, GROUPED: RNC, RMC.
5. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC.
6. BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR 4.

INDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

1. EXPOSED: EMT, IMC.
2. CONCEALED: EMT, IMC.

(CONTINUED ON TOP)

3. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC; EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
4. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
5. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT AS FOLLOWS: A. DAMP, WET OR KITCHEN LOCATIONS: NEMA 250, TYPE 4, STAINLESS STEEL.

TABLE W6:

LOCATION	208V.	480V.	LOW ENERGY*
EXPOSED			
INDOORS	< 1" EMT COMPRESS. FTGS >1.25" IMC THREADED FTGS	IMC THREADED FTGS	EMT COMPR. FTGS
OUTDOORS	RMC OR IMC THREADED FTGS	RMC OR IMC THREADED FTGS	RMC OR IMC THREADED FTGS
CONCEALED			
WALLS	<2" EMT SET SCREW FTGS >2.5" IMC THREADED FTGS	<2" EMT SET SCREW. FTGS >2.5" IMC THREADED FTGS	EMT 1/2"- 2" SET SCREW FTGS 2.5" - 4" COMPR. FTGS
AIR HANDLING CEILING/SPACE	<2" EMT COMPR. FTGS >2.5" IMC THREADED. FTGS	2" EMT COMPR. FTGS < >2.5" IMC THREADED. FTGS	EMT COMPR. FTGS
NON AIR HANDLING CEILING/SPACE	<2" EMT SET SCREW FTGS >2.5" IMC THREADED. FTGS	<2" EMT COMPR. FTGS >2.5" IMC THREADED. FTGS	EMT 1/2" - 2" SET SCREW FTGS 2.5"- 4" COMPR. FTGS
BELOW GRADE			
INTERIOR	IMC THREADED FTGS OR SCHEDULE 40 OR 80 PVC	IMC THREADED FTGS	IMC THREADED FTGS SCHEDULE 40 OR 80 PVC
EXTERIOR	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS

W7. ALL CONDUITS PENETRATING THE FREEZER/COOLER BOX SHALL BE SEALED IN COMPLIANCE NEC SECTION 300 AND THE FREEZER/COOLER BOX MANUFACTURERS REQUIREMENTS.

W8. PROVIDE THREE (3) 3/4" EMPTY CONDUITS FROM PANEL LP-1 UP TO THE CEILING SPACE AND CAP FOR FUTURE USE.

GROUNDING:

G1. ALL BRANCH AND FEEDER CIRCUITS SHALL BE GROUNDED BY TWO METHODS. THE FIRST METHOD SHALL INCLUDE AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR CONTAINED WITHIN THE SAME CONDUIT AS THE PHASE CIRCUIT CONDUCTORS AND SIZED PER NEC SECTION 250 REQUIREMENTS. THIS INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL HAVE ONE END PROPERLY TERMINATED AT THE EQUIPMENT GROUND BUS IN THE CORRESPONDING CIRCUIT BREAKER PANEL, AND THE OTHER END TERMINATED AT THE GROUNDING CONTACT OF A GROUNDING RECEPTACLE AND TO THE JUNCTION BOX OR TO AN EQUIPMENT CABINET, AS APPLICABLE. THE SECOND METHOD PROVIDES EQUIPMENT GROUNDING VIA METALLIC CONDUIT THAT IS CONNECTED AND TERMINATED IN FITTINGS LISTED FOR GROUNDING PER NEC SECTION 250 REQUIREMENTS. BOTH GROUNDING METHODS ARE REQUIRED IN A MCDONALD'S RESTAURANT. ISOLATED GROUND SHALL BE INSTALLED WHERE INDICATED ON PLAN AND AS SHOWN IN POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL ON SHEET E4.2.

G2. THE BUILDING GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250, MCDONALD'S SPECIFICATIONS, AND SHEET E4.2. CAUTION: IT IS A SAFETY HAZARD AND AN NEC VIOLATION TO HAVE ANY NEUTRAL TO GROUND CONNECTIONS BEYOND THE MAIN ELECTRICAL DISCONNECT MEANS. MCDONALD'S GROUNDING STANDARDS PURPOSELY EXCEED THOSE GIVEN BY THE NEC. THE EC SHALL PROVIDE A BUILDING GROUNDING SYSTEM MEETING NEC SECTION 250 REQUIREMENTS AS WELL AS MCDONALD'S STANDARDS.

G3. EC SHALL REFER TO "POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL, SHEET E4.2, FOR REQUIRED WIRING REQUIREMENTS OF COMPUTER PANEL CP.

G4. METAL RACEWAYS CONTAINING A GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250 REQUIREMENTS.

TEMPERATURE CONTROLS:

T1. REMOTE TEMPERATURE SENSORS: EC SHALL PROVIDE 1/2" CONDUIT FROM JUNCTION BOX ABOVE CEILING DOWN TO SENSOR MOUNTED AT 4'-0" TO 4'-6" AFF.

T2. SEE DETAIL ON SHEET M3.0. FOR SENSOR MOUNTING DETAIL. LOCATION OF WALL MOUNTED TEMPERATURE SENSORS ARE SHOWN ON SHEET M1.2 AND E2.0.

T3. WHEN WIRING FOR PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS IS NOT IN A CONDUIT, THE WIRING SHALL BE RUN TO THE UNDERSIDE OF THE ROOF DECK. NONE OF THE WIRING SHALL BE ROUTED OVER FLUORESCENT BALLASTS, POWER BOXES OR IN A CONDUIT WITH LINE VOLTAGE WIRING AS ELECTRICAL INTERFERENCE (NOISE) WILL CAUSE ERRATIC CONTROL OPERATION. ALL THERMOSTATS SHALL BE MOUNTED 4'-0" AFF.

FLAT PANEL TELEVISIONS:

TV1. EC SHALL PROVIDE A DUPLEX RECEPTACLE AND A LOW VOLTAGE BROADBAND CONNECTION FOR THE INSTALLATION OF FLAT PANEL TELEVISIONS. COORDINATE EXACT LOCATIONS WITH DECOR COMPANY. FOR BROADBAND CONNECTION, EC SHALL PROVIDE A 4 X 4 BOX WITH A 3/4" CONDUIT STUB-UP WITH A BUSHING INTO ACCESSIBLE CEILING SPACE.

ELECTRICAL PANELS:

E1. THE EC SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.

E2. THE EC SHALL PROVIDE ELECTRICAL SERVICE TO THE EQUIPMENT MOUNTED BREAKER PANEL. SEE ELECTRICAL ROUGH-IN PLAN AND SCHEDULE FOR ALL REQUIREMENTS.

E3. THE EC SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANEL SHALL BE PROVIDED WITH AN ACCURATE TYPEWRITTEN CIRCUIT DIRECTORY AT THE CONCLUSION OF THE PROJECT AND PRIOR TO RESTAURANT OPENING.

SECURITY AND DRIVE-THRU CAMERAS:

S1. EC TO PROVIDE ELECTRICAL POWER AND COMMUNICATION CONDUITS FOR BUILDING MOUNTED SECURITY AND DRIVE THRU CAMERAS. COORDINATE FINAL LOCATIONS WITH SECURITY AND DRIVE THRU CAMERA INSTALLERS.

LIGHTING:

L1. PROVIDE A WEATHERPROOF JUNCTION BOX IN PARAPET FOR FASCIA SIGN. FINAL CONNECTION BY OTHERS.

L2. COORDINATE THE LOCATION OF JUNCTION BOX (IN THE WALL) WITH THE OPENING IN TRELLIS (FOR THE LIGHT FIXTURE WIRES). THE LOCATION OF THE JUNCTION BOX AND THE OPENING IN THE TRELLIS SHALL BE ALIGNED FOR THE LIGHT FIXTURE TO BE INSTALLED PROPERLY. COORDINATE INSTALLATION OF JUNCTION BOX AND ANY NECESSARY OPENINGS IN TRELLIS WITH GC AND TRELLIS/CANOPY MANUFACTURER. SEE LIGHT FIXTURE INSTALLATION INSTRUCTIONS FOR REQUIREMENTS REGARDING MOUNTING BRACKETS FOR USE IN C-CHANNEL TRELLISES.

L3. EC SHALL FIELD VERIFY THAT LIGHT FIXTURES DO NOT OBSTRUCT OR CONFLICT WITH THE WORK OF OTHER TRADES. IF A DISCREPANCY IS FOUND, THE EC SHALL IMMEDIATELY NOTIFY THE QC BEFORE THE THE INSTALLATION OF SUCH FIXTURE(S). EC SHALL COORDINATE LOCATIONS OF ALL LIGHT FIXTURES IN DINING AREA WITH FINAL SEATING AND DECOR PLANS.

L4. IF PC-POS CASH REGISTER SYSTEM IS INSTALLED, EC SHALL RELOCATE FIXTURES ABOVE FRONT COUNTER TO AVOID GLARE ON THE CASH REGISTER SCREENS. EC SHALL INSTALL CABLE WHIP TO FIXTURES SO THAT FIXTURE MAY BE RELOCATED FOUR FEET WITHOUT DISCONNECTING CABLE WHIP.

L5. EC SHALL COORDINATE LOCATION OF ALL EXTERIOR LIGHTS TO AVOID INTERFERENCE WITH ANY CORBELS, TRUSSES, BEAMS OR OTHER SPECIAL EXTERIOR TREATMENTS. INSTALL LIGHT FIXTURES WITH CORRECT ORIENTATION PER MANUFACTURER'S INSTRUCTIONS

L6. THE USE OF INTERLOCK TYPE "MC" CABLE IN LENGTHS OF 6 FEET OR LESS (WHERE PERMITTED BY LOCAL CODES) SHALL BE ALLOWED FOR WIRING TO INTERIOR LIGHTING FIXTURES. "ROMEX" OR "BX" SHALL NOT BE USED.

L7. EC SHALL VERIFY THAT NOT MORE THAN 3% VOLTAGE DROP EXISTS FROM THE LIGHTING PANEL TO ANY EXTERIOR LIGHTING FIXTURE OR SIGNAGE BALLAST.

L8. WHERE MCDONALD'S RESTAURANT HAS A PLAYPLACE, THE EC SHALL COORDINATE EXACT LOCATION OF PLAYPLACE LIGHTING WITH PLAYPLACE TOY VENDOR FOR MAXIMUM ILLUMINATION AND SAFETY PER THE FINAL LOCATION OF THE PLAYPLACE TOY. LIGHTING FIXTURES SHALL NOT BE MOUNTED TO THE TOY OR ANY PART OF THE TOY STRUCTURE.

L9. EC SHALL VERIFY ALL TAP SETTINGS FOR H.I.D. LIGHTING FIXTURES AND MAKE ANY NECESSARY CORRECTIONS PRIOR TO INSTALLATION.

BY	DESCRIPTION
1	PROTOTYPE UPDATES
07/15/2026	DATE
REV	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC/Illumination/Plumbing/Power Distribution/Controls
David W. Day
P.O. Box 1640
Anahuac, TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010037814
PROFESSIONAL ENGINEER
7/22/26

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PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE
MES	2026
REVIEWED BY	DATE ISSUED
JAW	04/15/2026

TITLE: 2026 STANDARD BUILDING - B820
4590-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024-1329

SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO. JAWA 26-0041
E3.1
NOTES & DETAILS

SEQUENCE OF OPERATION:

1. TURNING "ON" ANY PIECE OF COOKING EQUIPMENT UNDER A HOOD WILL TURN ON THE EXHAUST FAN AND ASSOCIATED RTU PROVIDING MAKEUP AIR FOR THAT HOOD.
2. TURNING "OFF" THE LAST PIECE OF COOKING EQUIPMENT UNDER A HOOD WILL TURN OFF THE EXHAUST FAN FOR THAT HOOD.
3. IF THE ANSUL SYSTEM SHOULD DISCHARGE WHILE THE COOKING EQUIPMENT AND EXHAUST FAN ARE OPERATING, THE COOKING EQUIPMENT WILL BE SHUT OFF, BUT THE EXHAUST FAN WILL CONTINUE TO RUN AND WILL FORCE THE ROOFTOP UNITS INTO A "SCHEDULED" MODE
4. THE ANSUL SYSTEM MUST BE RECHARGED AND MANUALLY RESET BEFORE THE COOKING EQUIPMENT WILL AGAIN BE ABLE TO OPERATE.
5. THE ON/OFF SWITCH ON THE EXHAUST FAN IS NORMALLY KEPT IN THE "ON" POSITION. IF IT IS TURNED OFF FOR SERVICE, THE COOKING EQUIPMENT WILL TURN OFF AND NOT BE ABLE TO OPERATE UNTIL THE EXHAUST FAN ON/OFF SWITCH IS AGAIN TURNED ON.

INTERLOCK DIAGRAM LEGEND

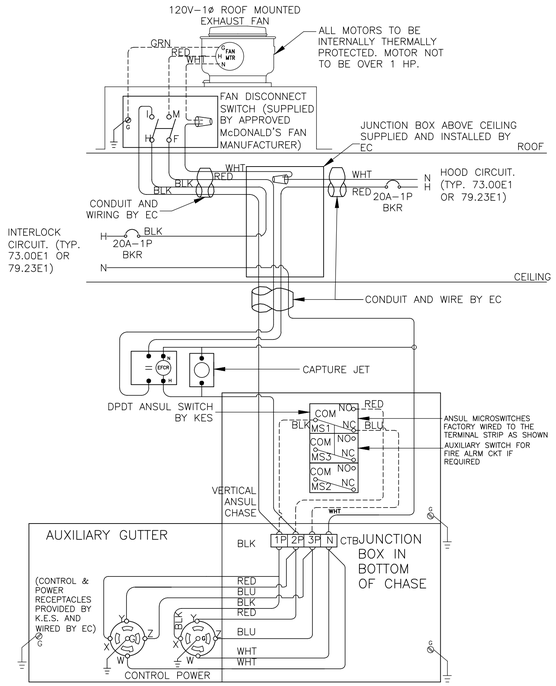
- ● TERMINAL BLOCK IN CHASE
- CTB – CHASE TERMINAL BLOCK. PROVIDED AND INSTALLED BY KITCHEN EQUIPMENT SUPPLIER
- ETB – EQUIPMENT TERMINAL BLOCK
- EFCR – EXHAUST FAN CONTROL RELAY. PROVIDED BY CONTRACTOR.
- IGR – INTERNAL GRILL RELAY PROVIDED WITHIN GARLAND GRILLS
- MS – ANSUL MICROSWITCH PROVIDED BY KITCHEN EQUIPMENT SUPPLIER
- >> CONTROL CORD PLUG & RECEPTACLE
- —— FIELD WIRING
- ——— CONTROL CORD/INTERNAL WIRING
- - - - FACTORY WIRING
- —— EQUIPMENT OR ENCLOSURE

COOKING EQUIPMENT EXHAUST FAN	MAKE UP PROVIDED BY
EF/1	RTU–3
EF/2	RTU–1
EF/3	RTU–2

NOTE
RTU # ASSOCIATED WITH EACH EXHAUST FAN BASED ON PROTOTYPICAL VALUES ONLY. VERIFY THAT EXHAUST FAN ACTIVATES THE CORRESPONDING RTU TO PROVIDE AN ADEQUATE AMOUNT OF MAKEUP AIR.

1 / E-3.2 TYPICAL MAKEUP AIR RTU EXHAUST FAN SCHEDULE FOR REFERENCE ONLY

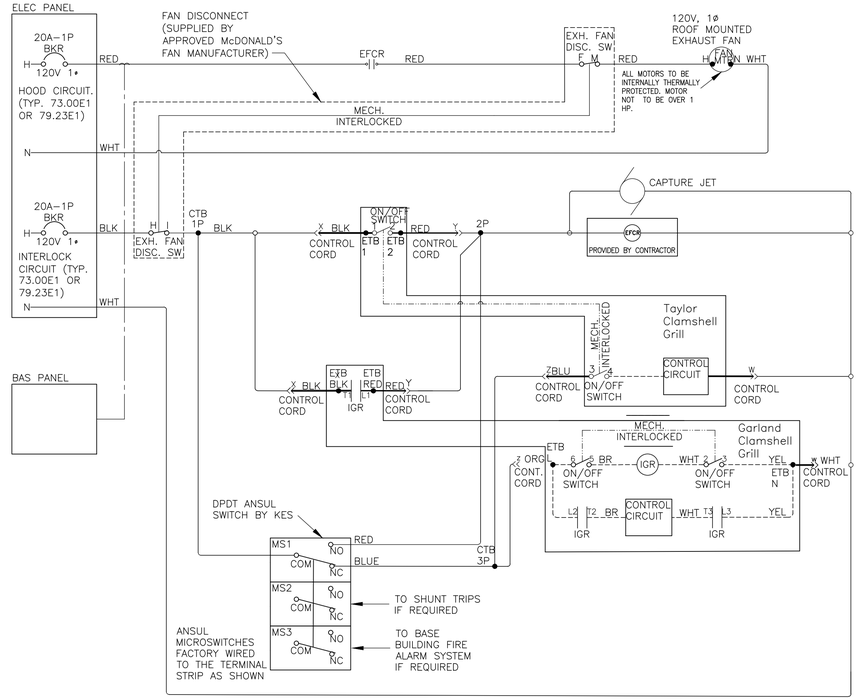
REVISED: 6/18



NOTE
IF CAPTURE JET IS REQUIRED TO BE OFF DURING AN ANSUL DISCHARGE EVENT, POWER FROM TERMINAL 2P THROUGH AN ANSUL SWITCH. IF ALL SHIPPED ANSUL SWITCH SPARES ARE USED, ANSUL SWITCHES ARE AVAILABLE THROUGH THE KES.

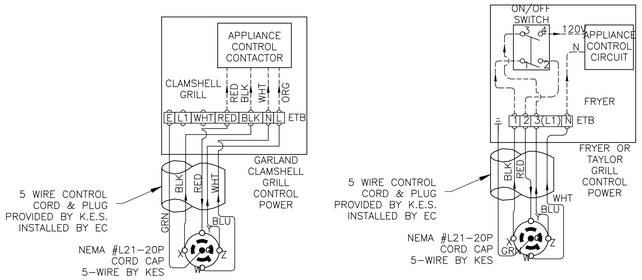
2 / E-3.2 INTERLOCK WIRING DIAGRAM FOR EXHAUST FAN AND COOKING EQUIPMENT FOR REFERENCE ONLY

REVISED: 6/18



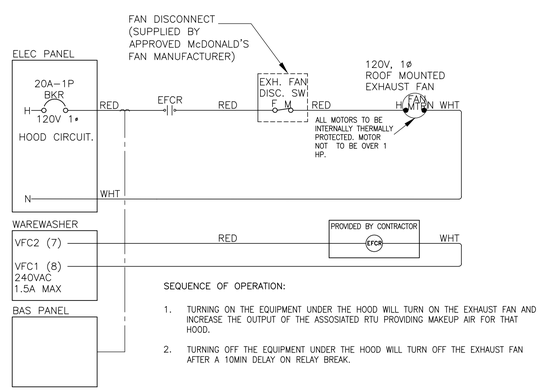
3 / E-3.2 INTERLOCK LADDER DIAGRAM FOR REFERENCE ONLY

REVISED: 4/26



4 / E-3.2 CONTROL CORD CONNECTION FOR REFERENCE ONLY

REVISED: 6/18

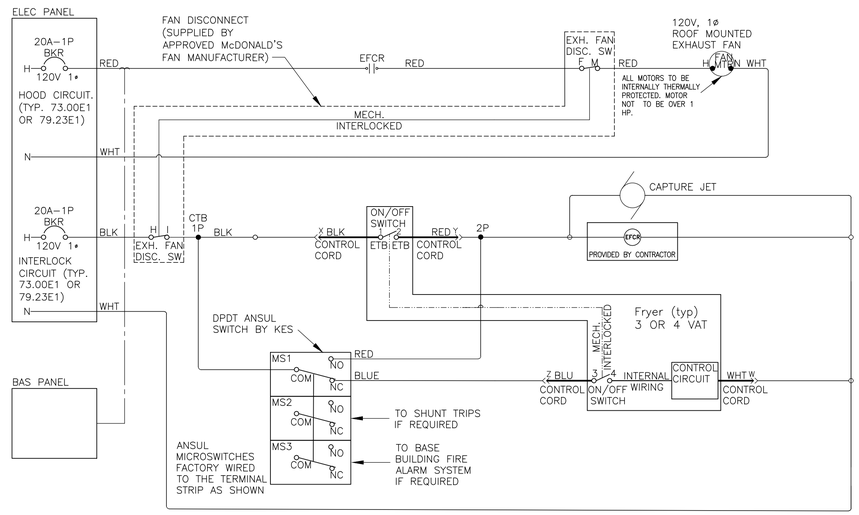


SEQUENCE OF OPERATION:

1. TURNING ON THE EQUIPMENT UNDER THE HOOD WILL TURN ON THE EXHAUST FAN AND INCREASE THE OUTPUT OF THE ASSOSIATED RTU PROVIDING MAKEUP AIR FOR THAT HOOD.
2. TURNING OFF THE EQUIPMENT UNDER THE HOOD WILL TURN OFF THE EXHAUST FAN AFTER A 10MIN DELAY ON RELAY BREAK.

7 / E-3.2 INTERLOCK LADDER DIAGRAM FOR EXHAUST FAN AND WAREWASHER FOR REFERENCE ONLY

REVISED: 02/24



6 / E-3.2 INTERLOCK LADDER DIAGRAM FOR REFERENCE ONLY

REVISED: 4/26

REV	DATE	DESCRIPTION	BY
1	07/15/2026	PROTOTYPE UPDATES	

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC/Illumination/Plumbing/Power Distribution/Controls
David W. Day
P.O. Box 1640
Anahuac, TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010037
PROFESSIONAL ENGINEER
7/22/26

PREPARED FOR: McDonald's USA, LLC

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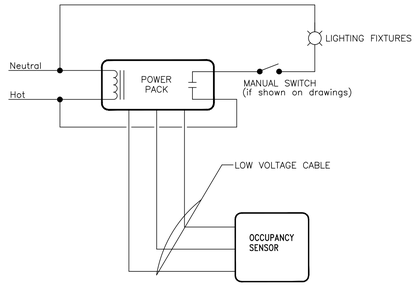
DRAWN BY	DATE ISSUE
MES	STD ISSUE 2026
REVIEWED BY	DATE ISSUED
JAW	04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD

DESCRIPTION	SITE ADDRESS
WOOD BEARING WALLS	SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
WOOD ROOF TRUSS FRAMING	

SITE ID: 024–1329

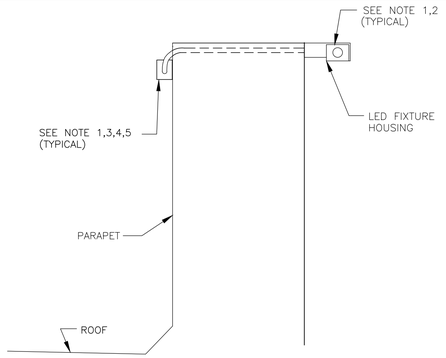
SHEET NO. JAWA 26–0041
E3.2
INTERLOCK DIAGRAMS



NOTES:

1. REFER TO LIGHTING PLAN FOR OCCUPANCY SENSOR LOCATIONS AND QUANTITIES.

1 / E-4.0 OCCUPANCY SENSOR CONTROL DETAIL
NOT TO SCALE



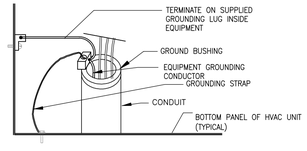
3 / E-4.0 BRAND WALL LIGHTING DETAIL
NOT TO SCALE

GENERAL NOTES

1. PLACE LED FIXTURE AT DESIRED LOCATION AND INSTALL FIXTURE FROM LEFT TO RIGHT WHEN FACING ARCADE AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
2. EC SHALL CONNECT NEW FIXTURES TO THE NEXT AVAILABLE SPARE 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
3. POWER SUPPLY SHALL ALWAYS BE INSTALLED TO THE LEFT SIDE OF FIXTURE WHEN FACING ARCADE.
4. OVERALL FIXTURE RUN TO BE CENTERED ON OVERALL LENGTH OF WALL.
5. CONNECT NEW LED FIXTURES TO EXISTING LIGHTING CIRCUIT(S) AS REQUIRED. ENSURE THAT CIRCUIT BREAKER AND CONDUCTOR SIZES DO NOT EXCEED 1200 WATTS ON A 15A CIRCUIT AND 1600 WATTS ON A 20A CIRCUIT. VERIFY EXISTING CONDITIONS AND REQUIREMENTS IN FIELD. PROVIDE ADDITIONAL CIRCUITS (C.B.,WIRING,CONDUITS) AS REQUIRED.

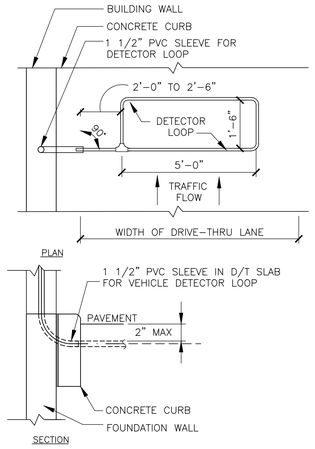
CONDUIT, WIRE SIZE AND GROUNDING FOR HVAC UNITS

HACR BRKR SIZE	CONDUIT & WIRE SIZE
40A	1"C-3#8
45A	1"C-3#6
50A	1"C-3#6
60A	1"C-3#6
70A	1-1/4"C-3#4
80A	1-1/4"C-3#3
90A	1-1/4"C-3#3
100A	1-1/4"C-3#2
125A	1-1/2"C-3#1
150A	1-1/2"C-3#1/0
175A	2"C-3#2/0
200A	2"C-3#3/0
225A	2"C-3#4/0
250A	2-1/2"C-3#250

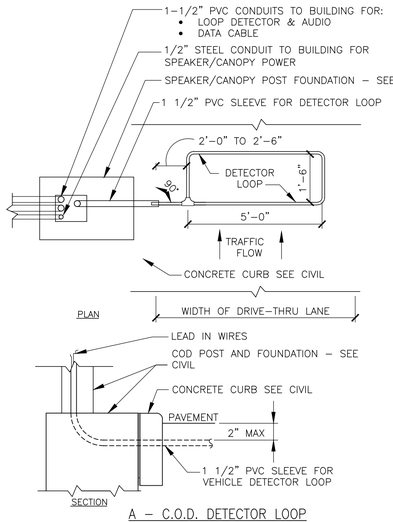


4 / E-4.0 HVAC GROUNDING DETAIL
NOT TO SCALE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL ELECTRICAL FEEDERS AND CIRCUIT BREAKERS WITH THE MANUFACTURER'S WRITTEN DATA FOR EACH MECHANICAL DEVICE PRIOR TO SUBMITTAL OF ANY ELECTRICAL EQUIPMENT FOR REVIEW. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY CHANGES TO ELECTRICAL FEEDERS OR CIRCUIT BREAKERS REQUIRED FOR ANY MECHANICAL DEVICES.



B – DT WINDOW DETECTOR LOOP

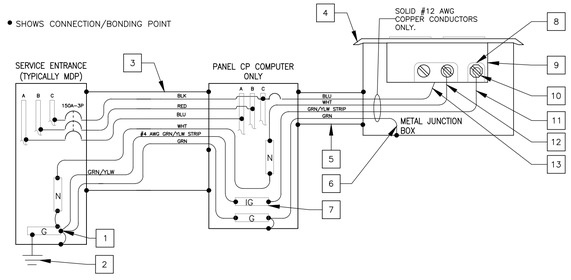


A – C.O.D. DETECTOR LOOP

2 / E-4.0 DETECTOR LOOP DETAILS
NOT TO SCALE

NOTES

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP (ITEM # 217.11E1) IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
3. SEE CIVIL FOR DIMENSIONS OF DRIVE-THRU LANE CONCRETE PAD FOR DETECTOR LOOP.
4. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
5. DETECTOR LOOP MANUFACTURERS:
   DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWINGS COMPANIES OR EQUAL.
   3M: 1-800-328-0033
   HME: 1-800-848-4468
6. DETECTOR LOOP MATERIAL:
   PVC TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD-IN IS PRE-TWISTED AT FACTORY.
7. DETECTOR LOOP CONSTRUCTION:
   FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.



NOTES

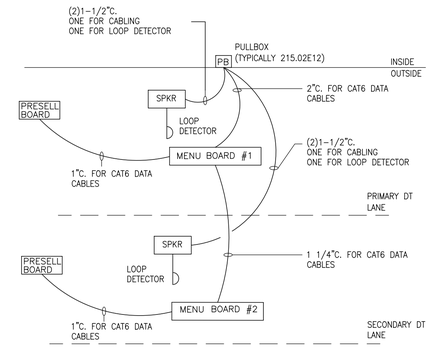
1. ALL P.O.S. EQUIPMENT (COMPUTERS,PRINTERS,MONITORS KVS, MODEM, HUB & COD) SHALL BE POWERED FROM THE COMPUTER PANEL.

   ALL OTHER COMPUTER/DIGITAL EQUIPMENT SHALL BE POWERED FROM PHASE "A" IN THE COMPUTER PANEL.
2. ISOLATED GROUND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF NEC SECTION 250 .
3. EACH 20 AMP CIRCUIT SHALL HAVE IT'S OWN ISOLATED EQUIPMENT GROUNDING CONDUCTOR.
4. ENTIRE GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250 AND MCDONALD's BUILDING GROUNDING DETAIL.
5. EC SHALL VERIFY CORRECT POLARITY AT RECEPTACLE.
6. EC SHALL VERIFY THAT SUBPANEL CP DOES NOT CONTAIN ANY ILLEGAL NEUTRAL TO GROUND BONDS.
7. PANEL CP SHALL ONLY BE USED TO POWER SENSITIVE ELECTRONIC EQUIPMENT, AS OUTLINED IN NOTE #1. IT SHALL NOT BE USED TO POWER ANY OTHER LOADS.
8. IT IS A SAFETY HAZARD AND AN NEC VIOLATION FOR THE POS SYSTEM TO HAVE ITS OWN INDEPENDENT GROUNDING ROD. IF AN INDEPENDENT GROUND ROD IS FOUND FOR THE POS SYSTEM, IT SHALL BE BONDED TO THE BUILDING GROUNDING SYSTEM.

KEY NOTES

1. THIS IS THE ONLY POINT WHERE THE ISOLATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE CONNECTED TO THE BUILDING'S GROUNDING SYSTEM.
2. SEE BUILDING GROUNDING DETAIL SHEET E4.2.
3. 2" METAL CONDUIT: 4-#1/0 CU + 1-#6 CU EQUIP GND + 1-#4 CU ISOLATED GND.
4. ALL ISOLATED GROUND/ DEDICATED CIRCUIT RECEPTACLE COVER PLATES SHALL BE ORANGE HUBBELL PJ7CO (SINGLE), PJ8CO (ONE DUPLEX) OR PJ82CO (TWO DUPLEX) MARKED "COMPUTER ONLY".
5. METAL CONDUIT SHALL CONTAIN ONLY P.O.S. CIRCUIT CONDUCTORS (DEDICATED CIRCUIT). ONLY USE RIGID NON-METALLIC CONDUIT BELOW GRADE WHEN REQUIRED BY LOCAL CODE.
6. EQUIPMENT GROUNDING BONDING CONDUCTOR (TYPICAL)
7. ISOLATED GROUND BUS, ELECTRICALLY INSULATED FROM PANEL ENCLOSURE USED TO TERMINATE ONLY ISOLATED EQUIPMENT GROUNDING CONDUCTORS.
8. ALL CONDUCTORS SHALL BE SOLID COPPER AND TERMINATED TO THEIR APPROPRIATE TERMINAL SCREWS BY WRAPPING THE CONDUCTOR COMPLETELY AROUND THE SCREW BARREL AND TIGHTENING THE SCREW PER MANUFACTURER'S TORQUE SPECIFICATIONS.
9. ISOLATED GROUND RECEPTACLE HUBBELL-IG4700,IG4710,IG5262 OR IG5261, SEE ROUGH IN SCHEDULE FOR THE APPROPRIATE RECEPTACLE TO USE.
10. ISOLATED GREEN GROUND SCREW.
11. ISOLATED EQUIPMENT GROUNDING CONDUCTOR (GRN W/YLW STRIP)
12. NEUTRAL CONDUCTOR TERMINATED ON SILVER SCREW.
13. PHASE CONDUCTOR TERMINATED ON BRASS SCREW

5 / E-4.0 POS & COD ISOLATED GROUND/DEDICATED CIRCUIT
NOT TO SCALE



DT LOW VOLTAGE CONDUIT DIAGRAM
NOT TO SCALE

NOTE:

* VERIFY EXACT CIRCUITS & QUANTITIES OF CIRCUITS WITH PANEL SCHEDULES AND MANUFACTURERS INSTALLATION INSTRUCTIONS.

* VERIFY LOW VOLTAGE CABLE COUNT WITH POS INSTALLER. LOW VOLTAGE CABLE SUPPLIED AND TERMINATED BY POS INSTALLER. EC TO PULL CABLE.

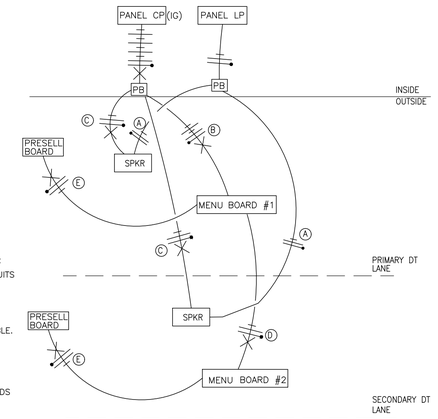
(A) 2#12 & 1#12 GND. TO LP-1 FOR COD CANOPY LIGHTING.

(B) 4#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.

(C) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO SPEAKER CANOPY/STAND. EACH CANOPY/STAND SHALL BE ON ITS OWN SEPARATE CIRCUIT.

(D) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.

(E) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO FOR PRESELL BOARDS AND MEDIA PLAYER.



DRIVE THRU POWER DIAGRAM
NOT TO SCALE

REV	DATE	DESCRIPTION	BY

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010014
PROFESSIONAL ENGINEER
4/15/26

PREPARED FOR: McDonald's USA, LLC
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DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED
MES	2026	JAW	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING
SITE ID: 024-1329
SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO. E4.0
JAWA 26-0041
WIRING DETAILS

LIGHTING CONTROL SYSTEM

INTERIOR CUSTOMER LIGHTING

C1

SPARE	1	SPARE
SPARE	2	SPARE
SPARE	3	SPARE
SPARE	4	SPARE
SPARE	5	SPARE
LP-1:27	6	TOY DISPLAY
LP-1:31	7	DINING ROOM
LP-1:33	8	DINING ROOM DECORATIVE LIGHTS

INTERIOR CREW LIGHTING

C2

LP-1:35	1	KITCHEN
AP-2:4	2	EXHAUST FAN-JANITORS
AP-2:33	3	RECIRCULATING PUMP
AP-5:11	4	EXHAUST FAN-RESTROOM
AP-1:1	5	CONTROLLED RECEPTACLES
SPARE	6	SPARE
SPARE	7	SPARE
SPARE	8	SPARE

BUILDING FACADE

C3

SPARE	1	SPARE
LP-1:10	2	D.T. WALL/SOFFIT LIGHTS
LP-1:12	3	WALL/SOFFIT LIGHTS
LP-1:15	4	LINEAR LED FACADE LIGHTING
SPARE	5	SPARE
LP-1:11	6	CANOPY LIGHTING
LP-1:2	7	FLAGPOLE LIGHTING
SPARE	8	SPARE

EXTERIOR LIGHTING

C4

LP-1:18	1	PARKING LOT LIGHTING
LP-1:20	2	
LP-1:26	3	PARKING LOT LIGHTING
LP-1:28	4	

EXTERIOR LIGHTING

C5

LP-1:22	1	PARKING LOT LIGHTING
LP-1:24	2	
LP-1:13	3	SCONCES (DELIVERY & REAR DOORS)
SPARE	4	SPARE

EXTERIOR SIGNAGE

C6

LP-1:6	1	McDONALD'S EXTERIOR SIGNAGE
LP-1:9	2	McDONALD'S EXTERIOR SIGNAGE
SPARE	3	SPARE
SPARE	4	SPARE
SPARE	5	SPARE
LP-1:23	6	OUTDOOR MENU BOARD
SPARE	7	SPARE
LP-1:19	8	DIRECTIONAL SIGNAGE
LP-1:21	9	DIRECTIONAL SIGNAGE
SPARE	10	SPARE
LP-1:40	11	McDONALD'S ROAD SIGN
LP-1:42	12	

INTERIOR LIGHTING CONTROL SCHEDULE							
	LOCAL CONTROL	MANUAL ON	PARTIAL ON	MULTI LEVEL	DAYLIGHTING	AUTO OFF	SCHEDULE OFF
DINING	MANAGERS OFFICE		X		X		X
KITCHEN	MANAGERS OFFICE		X				X
SUPPORT/STOCK	X					X	
CREW	X	X		X		X	
MANAGER	X	X		X		X	
BATHROOM						X	
SMALL STORAGE	X	X				X	
ENTRY VESTIBULE							X

NOTES:
1. LOCAL CONTROL: MANUAL LIGHTING CONTROL THAT PROVIDES ON AND OFF CONTROL IN SPACE. REMOTE LOCATION CONTROL DEVICE MUST BE LABELED TO IDENTIFY CONTROLLED LIGHTING.
2. MANUAL ON: NONE OF THE LIGHTING SHALL BE AUTOMATICALLY TURNED ON.
3. PARTIAL ON: 50% OF THE GENERAL LIGHTING SHALL BE AUTOMATICALLY TURNED ON.
4. MULTI LEVEL: GENERAL LIGHTING SHALL BE FITTED WITH A MANUAL CONTROLLED CONTINUOUS DIMMER.
5. DAYLIGHTING: REQUIRED WHEN PRIMARY AND SECONDARY ZONES CONTAIN 150W OF GENERAL LIGHTING. PHOTOCONTROL SHALL REDUCE LIGHTING IN RESPONSE TO AVAILABLE DAYLIGHT USING CONTINUOUS DIMMING TO 20% AND OFF.
6. AUTO OFF: ALL LIGHTING INCLUDING LIGHTING CONNECTED TO EMERGENCY CIRCUITS SHALL BE AUTOMATICALLY SHUT OFF WITHIN 20 MINUTES OF OCCUPANTS LEAVING THE SPACE.
7. SCHEDULE OFF: ALL LIGHTING, INCLUDING LIGHTING CONNECTED TO EMERGENCY CIRCUITS, SHALL BE AUTOMATICALLY SHUT OFF DURING PERIODS WHEN THE SPACE IS SCHEDULED TO BE UNOCCUPIED.
8. 0.02W PER SQUARE FT OF BUILDING ALLOWED TO BE CONTINUOUSLY LIT.

EXTERIOR LIGHTING CONTROL SCHEDULE			
	TIME CLOCK	PHOTCELL	OCCUPANCY SENSOR
POLE LIGHTING	X	X	X
BUILDING MOUNT LIGHTING	X	X	
SIGNAGE	X	X	

NOTES:
1. TIME CLOCK: LIGHTING SHALL BE AUTOMATICALLY SHUT OFF BETWEEN BUSINESS CLOSING (OR MIDNIGHT) AND BUSINESS OPENING (OR 6AM) WHICHEVER PROVIDES THE SHORTEST OFF DURATION.
2. PHOTOCELL: LIGHTING SHALL BE AUTOMATICALLY TURNED OFF WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.
3. OCCUPANCY SENSOR: LIGHTING SHALL AUTOMATICALLY REDUCE THE CONNECTED LIGHTING POWER BY 50% WHEN NO ACTIVITY HAS BEEN DETECTED IN AREA IN 15 MINUTES. NO MORE THAN 1500W OF LIGHTING PER CONTROL ZONE.

LIGHTING CONTROL NOTES:

LIGHTING CONTROL COMMISSIONING

PROVIDE DOCUMENTATION THAT LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA TO COMPLY WITH IECC C408.3.

LIGHTING CONTROL NOTES

LC1. CONTACTOR DETAILS ARE DIAGRAMMATIC ONLY AND ARE SHOWN WITH TYPICAL LOADS AND CIRCUIT ASSIGNMENTS. LOADS, CIRCUIT ASSIGNMENTS AND NUMBER OF CONTACTORS MAY VARY BY RESTAURANT LOCATION AND PER BAS SUPPLIERS SYSTEMS. VERIFY EXACT REQUIREMENTS WITH BAS INSTALLATION DETAILS, SITE PLANS, ELECTRICAL PANEL SCHEDULES AND ACM. EC SHALL MAKE ALL MODIFICATIONS AS REQUIRED. FINAL INSTALLATION SHALL BE FULLY NEC AND ENERGY CODE COMPLIANT.

LC2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, CONNECTIONS, TERMINATIONS, ETC. THAT ARE NOT PROVIDED BY THE BAS SUPPLIER FOR A COMPLETE, FULLY OPERATIONAL AND CODE COMPLIANT LIGHTING CONTROL SYSTEM.

LC3. ALL COMPONENTS FOR THIS LIGHTING CONTROL SYSTEM SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE BOXED NOTE BELOW FOR OPTIONS.

LC4. ALL COMPONENTS SHALL BE UL LISTED AND LABELED AND THE SYSTEM SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL ENERGY CODE REQUIREMENTS.

LC5. ALL CONTACTORS SHALL BE LOCATED IN A NEMA 1 ENCLOSURE WITH SCREW TYPE COVER MOUNTED DIRECTLY ABOVE LIGHTING PANEL OR SWITCHGEAR SO AS TO BE ACCESSIBLE.

LC6. ALL CONTACTORS SHALL BE RATED FOR 30 AMP LOADS UNLESS NOTED OTHERWISE AND SHALL BE HID RATED WHERE REQUIRED.

LC7. COIL VOLTAGES FOR ALL CONTACTORS SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

LC8. CONTACTOR C5 IS INTENDED TO CONTROL PARKING LOT LIGHTS NEAR TRASH CORRAL, DELIVERY DOORS, AND EMPLOYEE PARKING, THUS ALLOWING A DIFFERENT LIGHTING SCHEDULE TO BE USED IN THOSE AREAS.

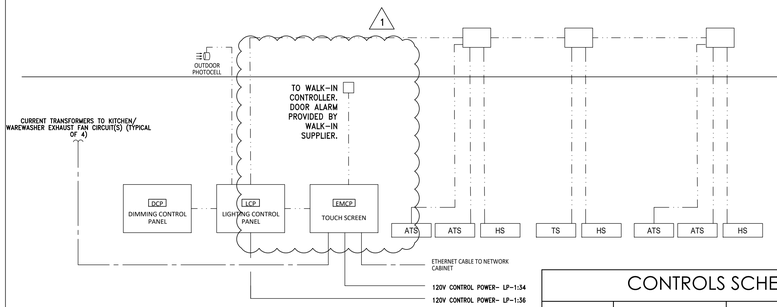
LIGHTING CONTROL INSTALLATION OPTIONS

OPTION 1 (STANDARD) CONTACTORS AND CONTACTOR ENCLOSURE FOR THIS LIGHTING CONTROL SYSTEM SHALL BE FURNISHED BY THE BAS SUPPLIER AND INSTALLED BY THE ELECTRICAL CONTRACTOR ON SITE FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

OPTION 2 (OPTIONAL) LIGHTING CONTROL CAN BE ACCOMPLISHED VIA UTILIZATION OF A SMART TYPE BREAKER PANEL REPLACING STANDARD PANEL LP-1. PANEL SHALL UTILIZE AN INTEGRAL MOTOR OPERATED CIRCUIT BREAKERS OR AN INTEGRAL CIRCUIT BREAKER/CONTACTOR TYPE COMBINATION DEVICE WITH AN INTEGRAL PROGRAMMING CONTROL MODULE AND SHALL BE ORDERED THROUGH OUR ELECTRICAL EQUIPMENT NATIONAL ACCOUNT PROGRAM (SQUARE-D) THROUGH OUR CONSTRUCTION PURCHASING TEAM.

BUILDING AUTOMATION SYSTEM

INSTALLATION & TECHNICAL ASSISTANCE INFORMATION:
LENNOX BAS: McD@CCBAC.com



PROVIDE AND INSTALL DATA OUTLET NEXT TO BAS PANEL. REMOTE COMMISSIONING IS NOT POSSIBLE WITHOUT DATA CONNECTION.

INSTALLATION NOTES:

1. PROVIDE, INSTALL AND SECURE ALL NECESSARY CABLE & CONDUIT PER BAS DRAWINGS AND SPECIFICATIONS.
2. MOUNT ALL BAS CONTROL ENCLOSURES.
3. PERFORM ALL LOW VOLTAGE TERMINATIONS.
4. ROUGH-IN, INSTALLATION AND WIRING FOR TEMPERATURE SENSORS AND TOUCHSCREEN PER PLAN LOCATIONS.
5. PROVIDE POWER CIRCUITS INTO CONTROL CANS PER BAS DETAILS.
6. COORDINATE WITH SUPPLIER TO SCHEDULE REMOTE COMMISSIONING.
7. CORRECT ALL PUNCH LIST ITEMS FOUND DURING REMOTE COMMISSIONING.

CONTROLS SCHEDULE

MARK	DESCRIPTION	MANUFACTURER MODEL
TS	TEMPERATURE SENSOR	*PROVIDED WITH BAS
ATS	AVERAGING TEMPERATURE SENSOR	*PROVIDED WITH BAS
HS	HUMIDITY SENSOR	*PROVIDED WITH BAS

NOTES:
1. FOR TS, HS AND ATS LOCATIONS, REFER TO M1.2

WIRE LEGEND

MARK	WIRE/CABLE TYPE
—— - ——	CAT 5E
—— · - · ——	18 AWG CONDUCTORS

BUILDING AUTOMATION SYSTEM NOTES

BAS1. THE DIAGRAM SHOWN ABOVE IS SCHEMATIC IN NATURE AND SHOWS THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF THE BUILDING AUTOMATION SYSTEM. EXACT EQUIPMENT REQUIREMENTS AND QUANTITIES WILL VARY PER SITE. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT EQUIPMENT AND INSTALLATION REQUIREMENTS WITH SUPPLIER PRIOR TO SUBMITTING BID FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

BAS2. THE BUILDING AUTOMATION SYSTEM ALSO HAS ADDITIONAL OPTIONS AVAILABLE SUCH AS MONITORING DOOR CONTACTS (RESTROOM & COOLER FREEZER), ENERGY METER, COOLER/FREEZER TEMP. ADDITIONAL OPTIONS MAY BE SELECTED ON CENTRAL PURCHASING PROJECT DETAIL FORM. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT INSTALLATION REQUIREMENTS WITH SUPPLIER PRIOR TO SUBMITTING BID FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

BAS3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE AND LOW VOLTAGE WIRING AND CONNECTIONS, INCLUDING BUT NOT LIMITED TO CONTROL POWER TO ALL BAS COMPONENTS AND POWER CIRCUITRY WIRING OF ALL LIGHTING CONTACTORS. COORDINATE INSTALLATION WITH SITE SPECIFIC BAS INSTALLATION DETAILS PROVIDED BY SUPPLIER.

REV	DATE	PROTOTYPE UPDATES	BY
1	07/15/2026		TPF

David W. Day P.E.
MEP Engineering & Design Consultants
HVAC*Illumination*Plumbing*Power Distribution*Controls
David W. Day
P.O. Box 1640
Anahuac ,TX 77514
contact: Mark Swanson-Project Manager
voice: 817-556-0986
email: mark@mepdesigntx.com

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STATE OF MISSOURI
DAVID W. DAY
NUMBER PE-2010019769
PROFESSIONAL ENGINEER
7/22/26

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DRAWN BY: MBS
STD ISSUE DATE 2026
REVIEWED BY: JAW
DATE ISSUED: 04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING
SITE ID: 024-1329
SITE ADDRESS: SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO. E4.1
JAWA 26-0041
LIGHTING CONTROLS

MLO, AIC: NOTES D6,D7,&D8, Mounting: flush, NEMA 1 — **PANEL LP-1** — **225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH**

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRP POLES	CCT NO.	CCT NO.	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
0			Spare		20A-1	1	2	20A-1	S	Flag Pole	220		
	0		Spare		20A-1	3	4	20A-1		Spare		0	
		0	Spare		20A-1	5	6	20A-1	S	Exterior Signage			294
0			Spare		20A-1	7	8	20A-1	S	Spare	0		
	294		Exterior Signage	S	20A-1	9	10	20A-1	S	Exterior Wall/Soffit Lights DT		114	
		193	Flood Lights & Canopy lights	S	20A-1	11	12	20A-1	S	Exterior Wall/Soffit Lights			114
42			Back of House Sconces	S,L	20A-1	13	14	20A-1		DCO In Road Sign Base	180		
	126		Linear LED Façade Lighting	S	20A-1	15	16	20A-1	L	Dr Alarm/CO2/Access Control panel		524	
		0	Spare		20A-1	17	18	30A-2		Lot Lights			480
96			Directional Sign	S	20A-1	19	20	|		|	480		
	96		Directional Sign	S	20A-1	21	22	30A-2		Lot Lights		240	
		120	COD lighting	S	20A-1	23	24	|		|			240
0			Spare		20A-1	25	26	30A-2		Lot Lights	480		
	30		Toy Display	S	20A-1	27	28	|		|		480	
		0	Spare	S	20A-1	29	30	30A-2		Spare			0
308			Dining Area Lighting	S	20A-1	31	32	|		|	0		
	189		Pendants/cove lights	S	20A-1	33	34	20A-1	L	BAS Controller		300	
		880	Kitchen Lighting	S	20A-1	35	36	20A-1	L	Lighting Control Panel			180
176			Restroom Lighting	S	20A-1	37	38	20A-1	S,L	Exit/Egress Lighting	80		
	520		Support Area Lighting	S	20A-1	39	40	60A-2	S	Mcd'S Road Sign		2496	
		0	Spare		20A-1	41	42	|	|	|			2496
										Total Connect	2062	5409	4997
										Connect Amps		35	Amps
										Demand Amps		43	Amps

MLO, AIC: NOTES D6, D7, & D8, Mounting: MDP, NEMA — **PANEL AP-1** — **225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH**

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRP PLS	CCT NO.	CCT NO.	TRIP PLS	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
1620			Dco-manager's office/crew room		20A-1	1	2	20A-2	G	Coffee brewer (presenter's booth)	1612		
	720		Dco-General Purpose	G	20A-1	3	4	|	|	|		1612	
		1200	Crew Room Microwave	G	20A-1	5	6	20A-1	G	ABS (phase c, presenter's booth)			1788
120			Safe - (mo) DCO Gen Purp	L	20A-1	7	8	20A-1	G	Juice disp/ coffee cream disp	840		
	240		Remote Order Battery		20A-1	9	10	20A-1	G	CO2 Detector		120	
		960	Merge/audio sys/drv mon/Deliv.	G	20A-1	11	12	20A-1	G	Automated beverage sys			600
960			Washer		15A-1	13	14	20A-2	G	Coffee Brewer (front counter)	1612		
	1800		Hand Held Order		20A-1	15	16	|	|	|		1612	
		120	Computer Room (TF/1)		20A-1	17	18	30A-3	G	Heat treat combo shake			1560
2246			Espresso Brewer	G	30A-2	19	20	|	|	|	1560		
	2246		|	|	|	21	22	|	|	|		1560	
		1500	3-Vat fryer hood interlock		20A-1	23	24	20A-1		3-Vat fryer hood Interlock			1176
1320			Reach in Freezer-SW	G	20A-1	25	26	20A-2	H	Ice Machine Remote Cond 1400lb	104		
	1080		Frozen fry dispenser (fry wall)	G	20A-1	27	28	|	|	|		104	
		2112	4-Vat fryer hood interlock		20A-1	29	30	20A-1	G	Reach in Freezer-SW			1320
1500			Fry Bagging Station	L,G	20A-1	31	32	15A-3	H	Ice Machine Remote Cond 1000lb	1332		
	60		Hand Wash Timers	G	20A-1	33	34	|	|	|		1332	
		1320	Reach in Freezer-SW	G	20A-1	35	36	|	|	|			1332
132			Ice mach - 1000 lb (self serve)		15A-1	37	38	15A-3	H	Ice Machine Remote Cond 1000lb	1332		
	132		Ice mach - 1000 lb (self serve)		15A-1	39	40	|	|	|		1332	
		1656	4-Vat fryer hd interlock		20A-1	41	42	|	|	|			1332
										Total Connect	16290	13950	17976
										Connect Amps		134	Amps
										Demand Amps		93	Amps

MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1 — **PANEL AP-2** — **225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH**

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRP PLS	CCT NO.	CCT NO.	TRIP PLS	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
1536			Ice machine 1400LB	H	20A-3	1	2	20A-1		Spare	0		
	1536		|	|	|	3	4	20A-1		Janitors EF		100	
		1536	|	|	|	5	6	20A-1	G	Dco-General Purpose			540
144			Blender McFlurry	G	20A-1	7	8	20A-1	G	Refrig-wt-48"	600		
	180		Janitor's closet	G	20A-1	9	10	30A-2	H	Trash Compactor		2496	
		0	Spare		20A-1	11	12	|	|	|			2496
0			Spare		20A-1	13	14	20A-1		Walk in cooler / freezer	600		
	864		Bulk oil system (sup area)	G	20A-1	15	16	20A-1		Walk in cooler / freezer		600	
		1668	Clm gril exhast hood interlock		20A-1	17	18	20A-2	G	Q'ing oven - P& S			1550
840			Meat freezer DW (grill side)	G	20A-1	19	20	|	|	|	1550		
	120		Clean in place panel	G	20A-1	21	22	20A-1	G	Specialty Coffee Refrigerator 27"		468	
		490	Reverse Osmosis, Filtration	G	20A-1	23	24	20A-1	G	Automated beverage sys			600
180			Dco in trash corrall	G	20A-1	25	26	20A-1	G	ABS (presenter's booth)	1788		
	1200		Bulk oil sys - support area (sa)	G	20A-1	27	28	20A-2	G	Q'ing oven - P& S		1550	
		1032	BIC Machine	G	20A-1	29	30	|	|	|			1550
324			Reach In SW fridge	G	20A-1	31	32	20A-2	G	Infusion Tea Brewer	1352		
	120		Recirc pump		20A-1	33	34	|	|	|		1352	
		1632	Soda syst pack (support area)		20A-1	35	36	20A-1		Spare			0
3120			Soda syst pack (support area)		30A-3	37	38	20A-2	G	Q'ing oven - P& S	1602		
	3120		|	|	|	39	40	|	|	|		1602	
		3120	|	|	|	41	42	20A-1	G	Dco-General Purpose			540
										Total Connect	13636	15308	16754
										Connect Amps		127	Amps
										Demand Amps		84	Amps

MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1 — **PANEL AP-3** — **225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH**

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRP PLS	CCT NO.	CCT NO.	TRIP- PLS	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
4668			4-Vat-Fryer-Electric-S/S/S/S	G	50A-3	1	2	50A-3	G	4-Vat-Fryer-Electric-S/S/S/S	4668		
	4668		|	|	|	3	4	|	|	|		4668	
		4668	|	|	|	5	6	|	|	|			4668
4668			4-Vat-Fryer-Electric-S/S/S/S	G	50A-3	7	8	50A-3	G	4-Vat-Fryer-Electric-S/S/S/S	4668		
	4668		|	|	|	9	10	|	|	|		4668	
		4668	|	|	|	11	12	|	|	|			4668
0			Space			13	14	50A-3	G	Clamshell Grill	2604		
	0		Space			15	16	|	|	|		2604	
		0	Space			17	18	|	|	|			2604
0			Space			19	20	50A-3	G	Clamshell Grill	5196		
	0		Space			21	22	|	|	|	5196		
		0	Space			23	24	|	|	|			5196
0			Space			25	26			Space	0		
	0		Space			27	28			Space		0	
		0	Space			29	30			Space			0
0			Space			31	32			Space	0		
	0		Space			33	34			Space		0	
		0	Space			35	36			Space			0
0			Space			37	38			Space	0		
	0		Space			39	40			Space		0	
		0	Space			41	42			Space			0
										Total Connect	26472	26472	26472
										Connect Amps		220	Amps
										Demand Amps		143	Amps

MLO, AIC: NOTES D6,D7,&D8, Mounting: FLUSH, NEMA — **PANEL AP-4** — **225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH**

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRP PLS	CCT NO.	CCT NO.	TRIP PLS	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
2604			Clamshell Grill	G	50A-3	1	2	30A-3	G	Combi Oven	1812		
	2604		|	|	|	3	4	|	|	|		1812	
		2604	|	|	|	5	6	|	|	|			1812
5196			Clamshell Grill	G	50A-3	7	8	30A-3	G	Combi Oven	1812		
	5196		|	|	|	9	10	|	|	|		1812	
		5196	|	|	|	11	12	|	|	|			1812
4668			3-Vat-Fryer-Electric-F/F/F	G	50A-3	13	14	15A-1		Combi Oven Hood	960		
	4688		|	|	|	15	16	15A-1		Combi Oven Hood		960	
		4668	|	|	|	17	18			Space			0
4668			3-Vat-Fryer-Electric-F/F/F	G	50A-3	19	20			Space	0		
	4668		|	|	|	21	22			Space		0	
		4668	|	|	|	23	24			Space			0
4668			3-Vat-Fryer-Electric-F/F/F	G	50A-3	25	26			Space	0		
	4668		|	|	|	27	28			Space		0	
		4668	|	|	|	29	30			Space			0
0			Space			31	32			Space	0		
	0		Space			33	34			Space		0	
		0	Space			35	36			Space			0
0			Space			37	38			Space	0		
	0		Space			39	40			Space		0	
		0	Space			41	42			Space			0
										Total Connect	26388	26408	25428
										Connect Amps		217	Amps
										Demand Amps		141	Amps

MLO, AIC: NOTES D6,D7,&D8, Mounting: FLUSH, NEMA — **PANEL AP-5** — **225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH**

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRP PLS	CCT NO.	CCT NO.	TRIP PLS	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
600			Fridge/Freezer 2Dr Base	G	20A-1	1	2	20A-1		Warewasher Exhaust Fan	864		
	600		Fridge/Freezer 2Dr Base	G	20A-1	3	4	20A-2	G	Universal Holding Cabinet P&S		1581	
		600	Fridge/Freezer 2Dr Base	G	20A-1	5	6	|	|	|			1581
600			Fridge/Freezer 2Dr Base	G	20A-1	7	8	20A-2	G	Universal Holding Cabinet P&S	1581		
	600		Fridge/Freezer 2Dr Base	G	20A-1	9	10	|	|	|		1581	
		864	Toilet Exhaust Fan	G	20A-1	11	12	20A-1	G	Univeral Holding Cabinet Table			240
540			Roof Receptacles	G	20A-1	13	14	20A-1		DT Power Window	120		
	132		Sparkle Table	G	20A-1	15	16	20A-1		DT Power Window		120	
		2080	Frozen Carbonated Beverage	G	30A-2	17	18	20A-1		DT Power Window			120
2080			Delivery Tablets	G	20A-1	19	20	20A-2	G	Coffee Brewer (front counter)	1612		
	360		Delivery Tablets	G	20A-1	21	22	|	|	|		1612	
		600	Wall Mount Frz Unit SW/ HC	G	20A-1	23	24	20A-1	G	Pie Display			564
828			Ice Machine Remote Cond 1400lb	G	20A-1	25	26	20A-1	G	Pie Display	564		
	2620		Universal Radiant Toaster	G	30A-2	27	28	20A-1		Spare		0	
		2620	|	|	|	29	30	20A-1		DCO-Muzak satellite system			120
3230			Warewasher 1of2	G	40A-3	31	32	20A-1		Cig. Mt window recepts	540		
	3230		|	|	|	33	34	20A-2	G	Humidified holding cabinet		947	
		3230	|	|	|	35	36	|	|	|			947
3230			Warewasher 2of2	G	30A-3	37	38	25A-2	H	Remote Condensing Unit	1560		
	3230		|	|	|	39	40	|	|	|		1560	
		3230	|	|	|	41	42	20A-1		Spare			0
										Total Connect	17949	18173	16796
										Connect Amps		147	Amps
										Demand Amps		95	Amps

MLO, AIC: NOTES D6,D7,&D8, Mounting: FLUSH, NEMA — **PANEL AP-6**

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRP PLS	CCT NO.	CCT NO.	TRIP PLS	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
1092			Hand Dryer	L,G	20A-1	1	2	50A-2		Unit AC-1	4160		
	1092		Hand Dryer	L,G	20A-1	3	4	|		|		4160	
		1092	Spare		20A-1	5	6	50A-2		Unit AC-2			4160
1092			Spare		20A-1	7	8	|		|	4160		
	104		Cooler Evap	H	20A-2	9	10	50A-2		Unit AC-5		4160	
		104	|	|	|	11	12	|		|			4160
2111			Freezer Evap	H	30A-2	13	14	20A-1		Unit AC-3	1200		
	2111		|	|	|	15	16	20A-1		Unit AC-4		1200	
		0	Space			17	18	20A-1		Spare			0
0			Spave			19	20	20A-1		Spare	0		
	0		Space			21	22			Space		0	
		0	Space			23	24			Space			0
0			Space			25	26			Space	0		
	0		Space			27	28			Space		0	
		0	Space			29	30			Space			0
0			Space			31	32			Space	0		
	0		Space			33	34			Space		0	
		0	Space			35	36			Space			0
0			Space			37	38			Space	0		
	0		Space			39	40			Space		0	
		0	Space			41	42			Space			0
										Total Connect	13815	12827	9516
										Connect Amps		100	Amps
										Demand Amps		70	Amps

1200A MLO NOTES D6, D7, & D8, Mounting: Free Standing, NEMA 1 — **PANEL MDP** — **208Y/120 VAC, 3PH, 4W**

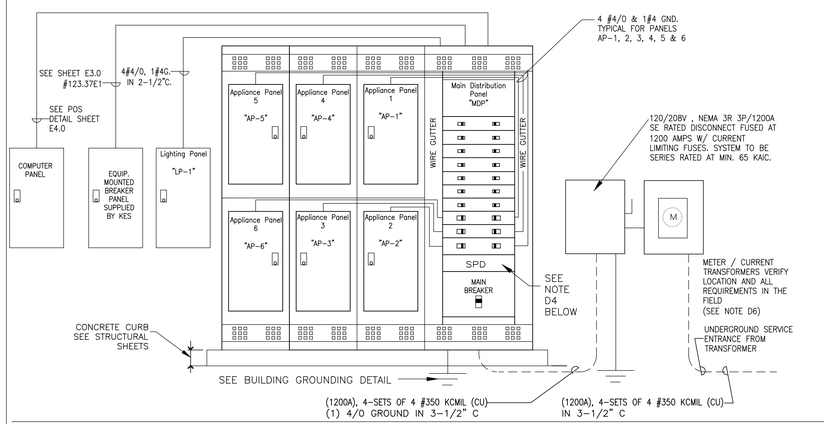
WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRP PLS	CCT NO.	CCT NO.	TRP PLS	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
2062	5409	4997	Lighting Panel 1; LP-1			225A-3	1	2	225A-3				
13636	15308	16754	Appliance Panel; AP-2			225A-3	3	4	225A-3	SHT	Appliance Panel; AP-3	26472	26472	26472
17520	17520	17520	*Roof Top Unit 1	H		150A-3	5	6	150A-3	L	CP Panel	8430	6912	9288
13815	12827	9516	Appliance Panel; AP-6			225A-3	7	8	150A-3	H	*Roof Top Unit 3	15720	15720	15720
17949	18173	16796	Appliance Panel; AP-5			225A-3	9	10	225A-3	SHT	Appliance Panel; AP-4	26388	26408	25428
6992	7304	0	KES Breaker Panel			125A-2	11	12	90A-3	H	*Roof Top Unit 2	10800	10800	10800
18000	18000	18000	Water Heater	L		200A-3	13	14			Space			
2966	2966	2966	Remote Cond Unit	H		50A-3	15	16			SPD			
0	0	0	SPACE				17	18			SPD			
0	0	0	SPACE				19	20			SPD			
			* SEE ELECT SHTS FOR CONDUIT AND WIRE SIZE								Total Connect	197040	197769	192233
											Connect Amps		1539	Amps
											Demand Amps		843	Amps

1

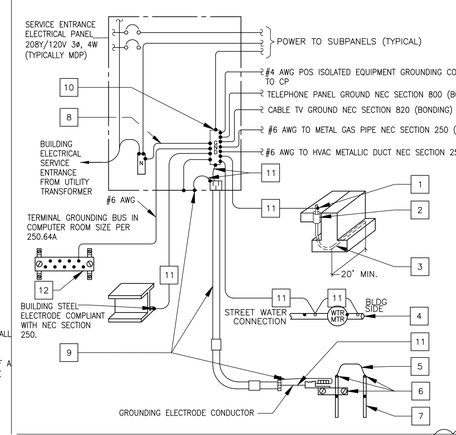
150 MLO AIC: SEE NOTES D6, D7, & D8, Mounting: Flush — **COMPUTER PANEL** — **150A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH**

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRP PLS	CCT NO.	CCT NO.	TRIP- PLS	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
1656			Pres Pos Reg/Vid Mon/HeadSet/Label	L	20A-1	1	2	20A-1	L	Spare	0		
	1200		Kvs Mon Oat/Vid Mon/Rec/Label	G, L	20A-1	3	4	20A-1	L	Rec		84	
		120	Cctv/Timer	L	20A-1	5	6	20A-1	L	Digital Merch/Media Player			432
630			Order Pos Reg/Vid Mon/ Coin dispenser	L	20A-1	7	8	20A-1	G,L	Kvs Mon Kit/Labeling System	600		
	720		Vid Mon	G, L	20A-1	9	10	20A-1		Zoom Timer		720	
		600	Tech Rack	L	20A-1	11	12	30A-1	L	Tech Rack UPS			1680
0			Spare	L	20A-1	13	14	20A-1	L	Cod Optical Isolator	120		
	1200		Tech Rack	L	20A-1	15	16	20A-1	L	Speaker Canopy #1		120	
		1440	Tech Rack	L	20A-1	17	18	20A-1	L	Speaker Canopy #2			120
444			Counter Pos Reg/ Rec	L	20A-1	19	20	20A-1	L	Office desk Unit	1200		
	0		Spare	L	20A-1	21	22	20A-1	L	Office desk Unit		1200	
		900	KVS Mon/Kit/Del. Pos Reg	G,L	20A-1	23	24	20A-1	L	Order Cash Recycler			528
1860			Exterior Menu Boards/Media Player	L	20A-1	25	26	20A-1	G,L	Kvs Mon Prep	360		
	528		Counter Cash Recycler	L	20A-1	27	28	20A-1	G,L	Time Clock		60	
		1860	Exterior Menu Boards/Media Player	L	20A-1	29	30	20A-1	L	Kiosk Cash Handler			528
480			DO Equipment Rack	L	20A-1	31	32	20A-1	L	Kiosks	1080		
	0		Spare		20A-1	33	34	20A-1	L	Kiosks		1080	
		0	Space			35	36	20A-1	L	Kiosks			1080
0			Space			37	38			Space	0		
	0		Space			39	40			Space		0	
		0	Space			41	42			Space			0
										Total Connect	8430	6912	9288
										Connect Amps		68	Amps
										Demand Amps		85	Amps

SINGLE LINE RISER DIAGRAM



BUILDING ELECTRICAL GROUNDING DETAIL



KEY NOTES

1. PROVIDE ENOUGH LENGTH TO TERMINATE DIRECTLY TO GROUND BUS OR USE BOLTED-TYPE CONNECTION DEVICE OR EXOTHERMIC WELD.
2. NON-METALLIC PROTECTIVE SLEEVE. LOCATE SLEEVE DIRECTLY UNDER THE ELECTRICAL SERVICE ENTRANCE PANEL. EC TO PROVIDE PLIABLE SEALANT BETWEEN COPPER WIRE AND SLEEVE.
3. FOR NEW CONSTRUCTION WHEN A SPREAD FOOTING OR DOWN TURNED SLAB IS USED, EC SHALL INSTALL A CONCRETE ENCASED ELECTRODE, COMPLIANT WITH NEC SECTION 250, CONSISTING OF AT LEAST 20 FEET OF BARE #4 AWG COPPER ENCASED IN 2 INCHES OF CONCRETE NEAR THE BOTTOM OF THE FOOTING OR FOUNDATION (BELOW GRADE) THAT IS IN DIRECT CONTACT WITH EARTH.
4. METAL UNDERGROUND WATER PIPE ELECTRODE COMPLIANT WITH NEC SECTION 250, THE GROUNDING CONNECTION TO THE INTERIOR METAL WATER PIPE SHALL BE MADE WITHIN THE FIRST FIVE FEET OF THE WATER PIPE ENTRANCE TO THE BUILDING.
5. IF MULTIPLE GROUNDING RODS ARE BEING USED OR NEED TO BE USED, THEY SHALL ALL BE BONDED TOGETHER PER NEC SECTION 250.
6. CLAMPS SUITABLE FOR DIRECT BURIAL OR EXOTHERMIC WELD.
7. 8'-0" X 5/8" CU ROD GROUNDING ELECTRODE COMPLIANT WITH NEC SECTION 250.
8. CU BONDING JUMPER SIZED PER NEC SECTION 250 OR FACTORY PROVIDED NEUTRAL TO GROUND BAR LINK. (THIS IS THE ONLY PLACE IN THE BUILDING WHERE N-G SHALL BE BONDED TOGETHER)
9. ALL METAL RACEWAYS CONTAINING GROUNDING ELECTRODE CONDUCTORS SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250. PROVIDE GROUNDING TYPE BUSHINGS & FITTINGS.
10. MCDONALD'S GROUNDING STANDARDS PURPOSELY EXCEED THOSE GIVEN BY THE NEC. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A BUILDING GROUNDING SYSTEM MEETING NEC AND MCDONALD'S STANDARDS AS SHOWN ON THIS DRAWING.
11. CU GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS SHALL BE SIZED BASED UPON ELECTRICAL SERVICE SIZE PER NEC SECTION 250

800A 3/0 CU	1000A 3/0 CU	1200A 4/0 CU

• SHOWS CONNECTION/BONDING POINT

12. TERMINAL GROUNDING BUS AT 90°AFF. HARGER #GBI14212D.

DISTRIBUTION EQUIPMENT NOTES:

D1. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.

D2. THE EC/GC/AREA CONSTRUCTION MANAGER WHEN ORDERING PANELBOARDS, SHALL DETERMINE THE NUMBER OF SERVICE ENTRANCE CONDUCTORS, SIZE AND MATERIAL TYPE, AND SHALL PROVIDE THIS INFORMATION TO THE PANELBOARD SUPPLIER SO THAT THE APPROPRIATE LUGS CAN BE PROVIDED FROM THE FACTORY.

D3. ALUMINUM SERVICE ENTRANCE CONDUCTORS SHALL ONLY BE USED WHEN THEY ARE TERMINATED DIRECTLY TO THE LINE LUGS ON A C/T AND METERING CABINET, THE LINE LUGS OF A FUSIBLE DISCONNECT SWITCH OR TO THE LINE LUGS OF A MAIN LUG ONLY (6 HANDLE RULE) SERVICE ENTRANCE PANEL. ALUMINUM SERVICE ENTRANCE CONDUCTORS SHALL NOT BE TERMINATED TO THE LINE LUGS OF ANY MAIN BREAKER SINCE DOING SO WILL VIOLATE IT'S 100% UL RATING. IF ALUMINUM CONDUCTORS ARE USED AS PREVIOUSLY INDICATED THEY SHALL BE TERMINATED AS FOLLOWS, AND THE WIRE SIZE INCREASED DUE TO LOWER AMPACITY OF ALUMINUM. EXPOSED ALUMINUM CONDUCTOR STRANDS SHALL BE COATED WITH AN ANTI-OXIDANT IMMEDIATELY AFTER INSULATION IS STRIPPED AWAY. A COMPRESSION LUG SHALL BE PROPERLY INSTALLED ONTO THE EXPOSED ALUMINUM CONDUCTOR STRANDS, AND THAT COMPRESSION LUG SHALL THEN BE BOLTED TO THE TRANSFORMER TAPS AND SWITCHBOARD BUSS USING PROPERLY SIZED BOLTS, NUTS AND WASHERS. MERELY INSERTING ALUMINUM STRANDS UNDER A SCREW LUG SHALL NOT BE ACCEPTABLE.

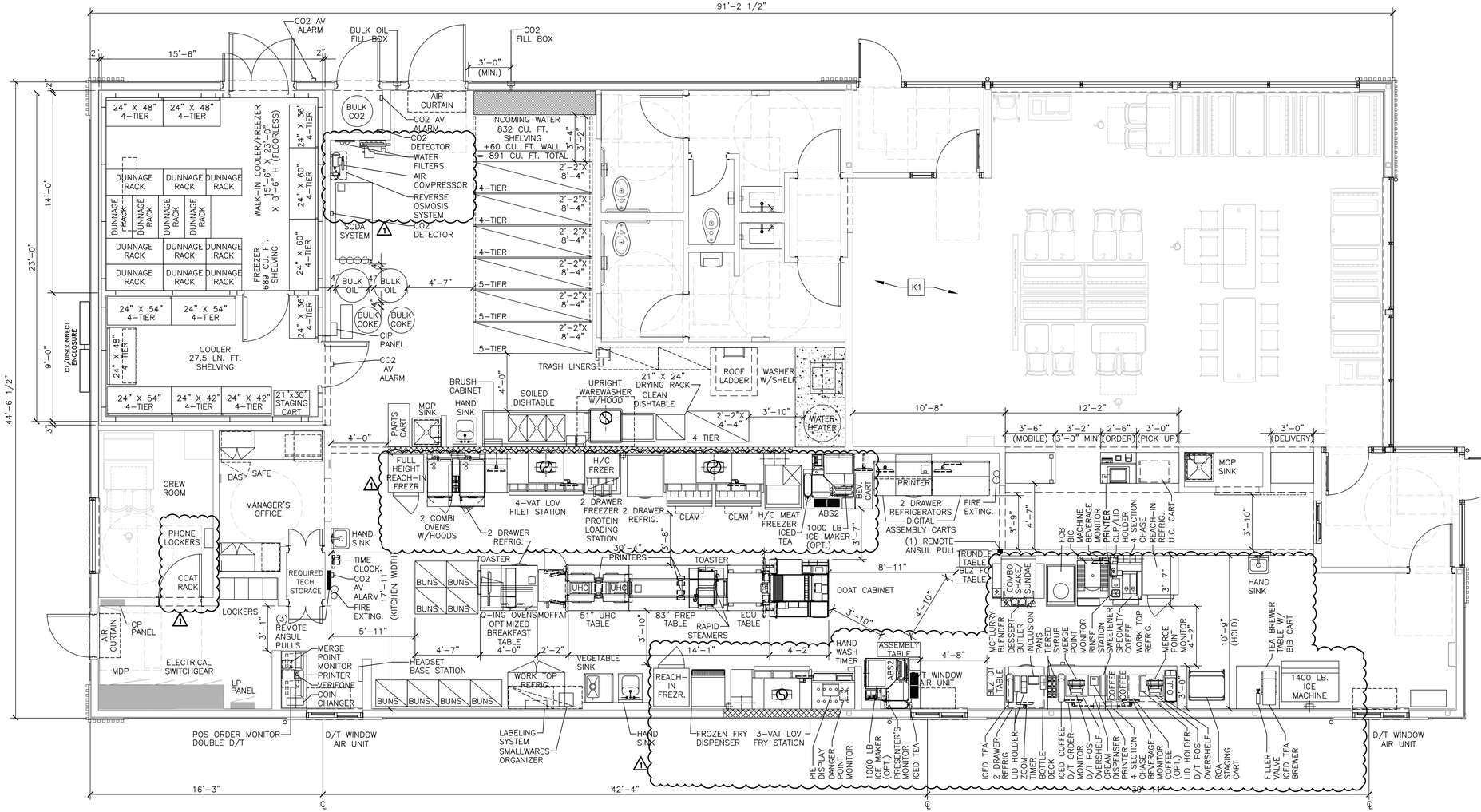
D4. THE SURGE PROTECTIVE DEVICE (SPD) UNIT SHALL BE AN INTEGRAL UNIT PROVIDED AND INSTALLED BY THE SWITCHBOARD MANUFACTURER. ORDER APPROVED UNITS AS SHOWN IN D5.

D5. APPROVED SWITCHBOARDS, PANEL, & SPD SUPPLIER (IN ADDITION TO ORDERING SWITCHBOARD & PANELS ALSO ORDER SPD) SUPPLIERS:

SQUARE D VIA GRAYBAR
900 REGENCY DRIVE
GLENDALE HEIGHTS, IL 60139
TEL: (800)784-6059 OR (630) 671.6304

SPD INTEGRAL: I-LINE SERIES,
(208Y/120V, 3Ø)

D6. MAIN INCOMING METER / CURRENT TRANSFORMER CABINET, MAIN DISTRIBUTION PANEL MDP, SERVICE CABINET AND SWITCH SHALL BE BRACED FOR THE HIGHEST AVAILABLE FAULT CURRENT BUT NOT LESS THAN NEMA SYMMETRICAL RMS OF 65,000 AMPERES



KITCHEN COVER SHEET

1 / K1.0

1/4" = 1'–0"

KEYED NOTES

K1 CUSTOMER KIOSK & DECOR LAYOUT FOR REFERENCE ONLY. VERIFY KIOSK PLACEMENT PER USRD APPROVED KIOSK REVIEW

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED BY:

JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
Email: jeremy@jaw-arch.com

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	JAW
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING – BB20
4590–WOOD/WOOD

DESCRIPTION:
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ID: 024–1329

SITE ADDRESS:
SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SHEET NO.: K1.0
JAWA 26–0041
KITCHEN COVER SHT

NOTE: DIMENSION VARIES BETWEEN CLR/FZR & EXT. WALL 2" MIN. - 4" MAX. SEE ARCH DWGS.

INCOMING WATER

(TRACK 14.5" STOPS)

(HOLD)

(CLEAR)

(REFERENCE)

REQUIRED TECH. STORAGE

ELECTRICAL PANELS

CT DISCONNECT ENCLOSURE

DRAWING NOTES

1. ALL DIMENSIONS SHOWN ARE TAKEN TO FACE OF WALL FINISH
2. * INDICATES OPTIONAL EQUIPMENT
3. KES TO VERIFY ALL BLOCKING FOR WALL MOUNTED EQUIPMENT AS REQUIRED BY GENERAL NOTE 8 ON A1.1 PRIOR TO INSTALLATION

SEE SHEET K2.1 FOR EQUIPMENT SCHEDULE

1 K2.0 KITCHEN EQUIPMENT PLAN
1/4" = 1'-0"

2 K2.0 COMPUTER CLOSET RACK
1/4" = 1'-0"

- 72-PORT PATCH PANEL
- PRIMARY SWITCH
- SECONDARY SWITCH
- CABLELESS SWITCH
- SIGNAL HUBS, CABLE GAP ABOVE HUBS
- POWER STRIP
- ISP AND CCU
- KVM, MULTIPLEXOR, MODEMS
- THIS SPACE RESERVED FOR: –ANY ADDITIONAL POS EQUIPMENT –NON–POS SYSTEMS (E. LEARNING, SECURITY, MUSIC, ETC.)
- POS UPS (LEFT) CABLELESS UPS (REAR CENTER) CABLELESS APPLIANCE (RIGHT) TWO RECORDER (FRONT CENTER)

3 K2.0 FRONT COUNTER
1/4" = 1'-0"

4 K2.0 FRONT COUNTER ELEVATION
1/4" = 1'-0"

5 K2.0 BEVERAGE CELL (INTERIOR WALL)
1/4" = 1'-0"

6 K2.0 BEVERAGE CELL (EXTERIOR WALL)
1/4" = 1'-0"

7 K2.0 COMPACT OPTIMIZED PREP LINE
1/4" = 1'-0"

REV	DATE	DESCRIPTION	BY
1	07/22/2026	PROTOTYPE UPDATES	

PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-703-3387
Email: jeremy@jaw-arch.com

PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	JAW
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026

TITLE: 2026 STANDARD BUILDING - BB20
4590-WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS
WOOD ROOF TRUSS FRAMING

SITE ADDRESS
SWC OF E NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781

SITE ID
024-1329

JAWA 26-0041

SHEET NO.
K2.0
KITCHEN PLAN

x = Optional Equipment VIF = Verify in Field
GC = General Contractor
R = Relocated Equipment

EQUIPMENT SCHEDULE

ITEM	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
1.40		1	SERVICE POD – 30"	DECOR	SEE PLAN	–	2	GC	–	
1.51		1	PICKUP POD – 36"	DECOR	SEE PLAN	–	2	GC	–	
1.52		1	PICKUP POD – 42"	DECOR	SEE PLAN	–	2	GC	–	
1.63		1	McDELIVERY PICKUP COUNTER	DECOR	SEE PLAN	–	2	GC	–	
2.05		1	UNDER COUNTER CART – 24"W x 18"D FRONT COUNTER	INTERMETRO	UC18–DMS	–	2	KES	–	
9.08		2	UTILITY CHASE – ICE MAKER ON ABS VERSION	KES	5"x8"x23"	–	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES	
9.15		1	UTILITY CHASE – FFDT INTERIOR WALL	KES	20"x5"x76"	–	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS, CO2 AND WATER	
9.16		1	UTILITY CHASE – FFDT EXTERIOR WALL	KES	20"x5"x76"	–	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS AND WATER	
9.18		2	UTILITY CHASE – WALL VERSION	KES	4"x4"x82"	–	2	KES	CHASE FOR BULK OIL LINES, MOUNT AT 2'–0"	
9.20		1	UTILITY CHASE – COMBI CELL	KES	4"x8"x84"	–	2	KES	CHASE FOR BUYOUT RECEPTACLES AND WATER	
19.00		2	DIGITAL ASSEMBLY CART – 48"	INTERMETRO	MCDDAC–48	–	2	KES	–	
19.04		1	ROA STAGING CART – 24"X 30"	INTERMETRO	MCDROA–2430	–	2	KES	–	
20.01		2	AUTOMATED BEVERAGE SYSTEM 2.0	IMI CORNELIUS	621058590LON	–	–	KES	INSTALLATION KIT INCLUDES STAINLESS STEEL CHASE & DATA LINE	
21.01		3	COFFEE BREWER (THERMAL POTS)	BUNN–O– MATIC	AXIOM–DV–3	E32066	4	KES	W/ELECTRONIC CONTROLLER FOR CONVERSION TO LOW OR HIGH VOLTAGE	
23.12		1	COFFEE CREAM DISPENSER	SURESHOT	AC110–PC–51	E217698	20	KES	–	
23.14		1	SUGAR/SWEETENER DISPENSER	SURESHOT	AC2–GP–1–G38	E217698	18	KES	–	
23.17		1	SPECIALTY COFFEE	THERMOPLAN	BW4–CTS	–	4	KES	–	
24.02		1	JUICE DISPENSER	BUNN–O– MATIC	JDF–2S	–	18	KES	–	
25.01		4	SLIMLINE ICED BEVERAGE DISPENSER	BUNN–O– MATIC	TDO–N	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET	
25.06		3	SLIMLINE ICED BEVERAGE DISPENSER – SHORT	BUNN–O– MATIC	TDO–N LP	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET	
25.07		1	INFUSION TEA BREWER – MIS	BUNN–O– MATIC	ITCB–DV	E32066	4	KES	PROVIDED WITH BREWER, INSTALLATION KIT AND TDO–N BOOSTER	
25.13		1	GLASS FILLER HOSE ASSEMBLY	FISHER	H–14650–KIT	–	–	GC	–	
25.95		3	SLIMLINE ICED BEVERAGE DISPENSER – 2 TIER STAND	KES	–	–	2	KES	–	
26.01		1	TEA BREWER TABLE – 36"X36"	ISS SHELVING	WST1758C	–	2	KES	–	
31.03		1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS) – REMOTE	MULTIPLEX	50MR04	SA4632	18	KES	–	
32.02		1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – TANKLESS	EVERPURE	MRS–600HE	–	–	KES	FOR COFFEE MAKER, ESPRESSO MACHINE, AND RAPID BUN STEAMER	
32.04		1	WATER FILTRATION SYSTEM	EVERPURE	EV9437–32	–	–	KES	–	
32.05		1	WATER FILTRATION SYSTEM	EVERPURE	EV9272–24	–	–	KES	FOR COMBI OVENS AND STAGING CABINET	
34.00		1	AIR COMPRESSOR	GAST	87R–10BA	–	–	KES	PROVIDE WITH AIR MANIFOLD	
36.00		2	BULK CORE	CHART INDUSTRIES	10667411	–	18	MANU–FACTURER	SYRUP LINES BY CHART INDUSTRIES	
37.00		1	BULK CO2 – 750 LB.	CHART INDUSTRIES	CARBO–MAX 750	–	–	MANU–FACTURER	–	
37.03		2	CO2 SAFETY SYSTEM	SEE RMKS	–	–	–	KES	SEE MECHANICAL DRAWINGS	INCLUDES DETECTOR, PWER MONITOR W/ TROUBLE SIGNAL AND (4) AV ALARMS
38.00		1	CLEAN IN PLACE PANEL	CHART INDUSTRIES	10667431	–	18	MANU–FACTURER	MOUNT 6"W x 7"H. BOX @ 6'–0" AFF TO BOX CENTER LINE	
39.10		1	ICE MACHINE – 1400 LB.	MANITOWOC	IYT1500N3/ D970	SA4027	12	KES	USE HEADMASTER KIT K00221	
39.15		2	ICE MACHINE – 1000 LB.	MANITOWOC	IBT1020C–161	SA4027	12	KES	CONDENSER: CVDT1200	
40.00		1	ICE MACHINE CHASE	KES	4"x6"x48"	–	–	KES	CONCEALS WATER AND CONDENSING UNIT LINES	
41.06		1	ICE MACHINE REMOTE CONDENSER – 1400 LB.	MANITOWOC	JGT–1500	SA4027	12	KES	–	
41.09		2	ICE MACHINE REMOTE CONDENSER – 1000 LB.	MANITOWOC	CVDT1200–263A	SA4027	12	KES	–	
43.21		1	OPTIMIZED ORDER ASSEMBLY TABLE	KES	90001	E152097	2	KES	–	
44.46		2	SMALL RISER SHELF – 18" TO 30"	FRANKE	18006010	–	2	KES	–	
44.60		1	MODULAR CENTER ISLAND CABINET – 36"	H&K	–	–	2	KES	–	
44.61		1	MODULAR CENTER ISLAND CABINET – 48"	H&K	–	–	2	KES	–	
44.62		1	MODULAR CENTER ISLAND CABINET– 60"	H&K	–	–	2	KES	–	
46.13		2	SYRUP BOTTLE RACK	H&K	HK13028	–	2	KES	–	
46.14		2	BOTTLE RACK	KES	95058	–	2	KES	–	
46.15		1	INCLUSION PAN HOLDER	KES	95099	–	2	KES	–	
46.16		1	CUP DISPENSER VERTICAL F/ 3 TUBES	H&K	79095	–	2	KES	–	
49.00		1	CO2 FILL BOX – 6 1/2"W x 18"H	CHART INDUSTRIES	8512629	–	–	MANU–FACTURER	SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT. INSTALLED BY GC	
51.03		2	CUP LID HOLDER 3 HIGH S/S	KES	–	–	2	KES	–	
51.04		3	CUP LID HOLDER SINGLE STACK 8" HIGH	KES	–	–	2	KES	–	
51.11		1	CUP LID HOLDER – SINGLE WIDE, 3 TIER	H&K	95020	–	2	KES	–	
52.01		1	REMOTE CONDENSING UNIT – 50MR04	MULTIPLEX	TS–0895	SA2298	–	KES	ORDER PRE–CHARGE LINE #204017 – VIF LENGTH FROM UNIT TO SODA SYST.	
61.00		1	FRY BAGGING STATION 36"	KES	FB25A	E99018	2	KES	–	
65.30		1	3–VAT LOV FRYER – ELECTRIC – F/F/F	HENNY PENNY	LVE–303	E30993	4	KES	–	IDLE ENERGY RATE=0.73kW, ENERGY EFFICIENCY=87%
66.47		1	4–VAT LOV FRYER – ELECTRIC – S/S/S/S	HENNY PENNY	LVE–304	E30993	4	KES	–	IDLE ENERGY RATE=0.73kW, ENERGY EFFICIENCY=87%
69.00		2	CAPTURE JET PLENUM – FRYER	HALTON	CJP–F	MH27607	2	KES	ATTACH TO UNIVERSAL EXHAUST HOOD	
73.06		1	UNIVERSAL EXHAUST HOOD 3–VAT FRYER	KES	UH–50	MH12755	2	KES	–	
74.00		1	UNIVERSAL EXHAUST HOOD 4–VAT FRYER	KES	UH–65	MH12755	2	KES	–	
79.26		2	VENTLESS HOOD FOR COMBI OVEN	CONVOTHERM	CONOVENT MINI 6.10	E325060	2	KES	–	
80.00		3	MECHANICAL CHASE	KES	9"x18" SGCL.	E163328	2	KES	–	
81.00		1	PROTEIN LOADING STATION KIT	KES	272436	–	2	KES	–	
81.01		1	PRODUCT LANDING SHELF – SOLID TOP	KES	–	–	2	KES	–	
81.02		1	PRODUCT LANDING SHELF – CUT OUT TOP	KES	–	–	2	KES	–	
85.05		1	FROZEN FRY DISPENSER	RAM	260–FD	E140733	4	KES	–	
91.02		1	WALL MOUNT FREEZER UNIT–SINGLE WIDE–HIGH CAPACITY	KES	HCWF1	SA7329	7	KES	AIR–COOLED, SELF–CONTAINED – MOUNT BOTTOM AT 5'–4FF	HCWF1.99A INSTALL HARDWARE KIT REQUIRED
94.01		1	UNIVERSAL EXHAUST HOOD 2–FULL–CLAM GRILLS	KES	UH–83	MH12755	2	KES	–	
96.21		2	36" NEXT GEN 3–PLATEN CLAMSHELL GRILL – ELECTRIC	CARLAND	ME–36"	E258898	4	KES	–	
97.08		1	MEAT FREEZER – DOUBLE WIDE – HIGH CAPACITY – RIGHT HAND	KES	HCMF30B–RH	SA6032 S	2	KES	AIR–COOLED, SELF–CONTAINED	
99.00		1	GRILL TOOL ORGANIZER	KES	–	–	2	KES	–	
110.01		1	OPTIMIZED BREAKFAST TABLE	KES	OBT	–	2	KES	–	
114.00		1	HUMIDIFIED HOLDING CABINET	MOFFAT	HP10T–LMD	197	4	KES	–	
116.23		2	UNIVERSAL HOLDING CABINET – HIGH DENSITY – 2–SIDED – PIN & SLEEVE	FRYMASTER	UHCHD6T	E44571	4	KES	–	
117.30		1	UHC TABLE COPL – 2 SIDED – 51"D x 34"W – PIN&SLEEVE	KES	91011	–	2	KES	–	
118.00		1	Q'ING OVEN – PIN & SLEEVE	AMANA	MC23MPW2	E40456	4	KES	–	
118.03		2	Q'ING OVEN – PIN & SLEEVE	ACP	MCMOC24	–	4	KES	–	
122.27		1	NEXT GEN. UNIVERSAL RADIANT TOASTER – PIN & SLEEVE	ANTUNES	HRT–5H	–	4	KES	–	
122.28		1	NEXT GEN. UNIVERSAL CONTACT TOASTER – PIN & SLEEVE	ANTUNES	HCT–5H	–	4	KES	–	
123.36		1	ECU TABLE – COPL	KES	90165	–	2	KES	–	
123.37		1	BREAKER PANEL– 125 AMP – 1 PHASE – EQUIPMENT MOUNTED	KES	–	–	–	KES	–	
123.40		1	PREP TABLE – HD – 2–SIDED COPL – 38"D x 83 1/2" – PIN & SLEEVE W/REF.	KES	91010	–	2	KES	–	
125.00		2	RAPID BUN STEAMER	PRINCE CASTLE	625–MFY	–	4	KES	–	
130.00		2	COMBI OVEN	CONVOTHERM	MS6102083LCMD1	E360598	4	KES	–	0.89kW, 69% STEAM MODE, 0.61kW, 81% CONVECTION MODE
134.02		1	VEGETABLE SINK	KES	SK04–4	–	2	KES	PROVIDE W/ BOWL COVER	
139.04		1	COMBI OVEN STAND – DOUBLE WIDE	KES	–	–	2	KES	–	
146.00		2	BUTTER WARMER	H&K	90016	–	–	KES	–	
151.12		1	CLEAN DISHTABLE – LEFT HAND – 28.23"	KES	SK–SPL	–	2	KES	–	
151.46		1	SOILED DISHTABLE – RIGHT HAND – 90.5" WIDE	KES	SK–SPL	–	2	KES	–	
152.04		1	WAREWASHER HOOD	KES	–		3		TYPE 2 HOOD FOR NON GREASE APPLICATION – REQUIRED PER CODE	
152.09		1	WAREWASHER – HIGH TEMP	ECOLAB	XL–HTHH–VV	E5956	3	MANU–FACTURER	PROVIDE VAPOR VENT	IDLE ENERGY RATE=0.486kW, WATER CONSUMPTION=0.84 GAL./RACK
153.00		1	SCULLERY SHELVING KIT – 3 TIER – 14" x 36"	INTERMETRO	SHSS–4	–	2	KES	–	
153.04		1	SMALLWARE WALL ORGANIZER	INTERMETRO	SW1812–MPS	–	2	KES	–	
153.06		1	REUSABLE DRYING RACK	INTERMETRO	MCD2124–DRY6	–	2	KES	–	
154.00		1	BRUSH CABINET	KES	8047	–	4	KES	–	
157.00		1	TRASH LINER DISPENSER SHELF	KES	A0053	–	2	KES	–	
159.03		1	UNIVERSAL PARTS CART – 36" W	INTERMETRO	MCD–1836UPC	–	2	KES	–	
160.01		4	CHEMICAL SYSTEM	ECOLAB	–	–	–	MANU–FACTURER	–	
163.00		2	FIRE EXTINGUISHER – 5 LB. – ABC	ANSUL	SEE RMKS	–	–	SEE RMKS	LOCAL ANSUL AGENT SPECIFIES, SUPPLIES & LOCATES PER LOCAL CODE	
163.01		2	FIRE EXTINGUISHER – 6 L. – K GUARD	ANSUL	SEE RMKS	–	–	SEE RMKS	LOCAL ANSUL AGENT SPECIFIES, SUPPLIES & LOCATES PER LOCAL CODE	
163.02		4	REMOTE ANSUL PULL	ANSUL	4835	EX3470	–	SEE RMKS	CODE MAY REQUIRE LOCAL ANSUL AGENT TO SUPPLY	
171.01		1	WALK–IN COOLER / FREEZER FLOORLESS	NORLAKE	–	E42763	7	KES	–	
174.48		1	REMOTE CONDENSING UNIT	MASTER–BILT	MSMC015MB	SA5649	–	KES	ALT. VENDOR HEATCRAFT. VERIFY EQUIPMENT SELECTION AND POWER REQ. W/ KES.	
174.50		1	REMOTE CONDENSING UNIT	MASTER–BILT	MSLA040MC	SA5649	–	KES	ALT. VENDOR HEATCRAFT. VERIFY EQUIPMENT SELECTION AND POWER REQ. W/ KES.	

x = Optional Equipment VIF = Verify in Field
GC = General Contractor
R = Relocated Equipment

EQUIPMENT SCHEDULE

ITEM	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
175.22		1	COOLER EVAPORATOR	MASTER–BILT	E1MCK140B–MA	SA5649	–	KES	ALT. VENDOR HEATCRAFT. VERIFY EQUIPMENT SELECTION AND POWER REQ. W/ KES.	
176.31		1	FREEZER EVAPORATOR	MASTER–BILT	E1LAK140B–ME	SA5649	–	KES	ALT. VENDOR HEATCRAFT. VERIFY EQUIPMENT SELECTION AND POWER REQ. W/ KES.	
177.03		1	REACH–IN REFRIGERATOR–SINGLE WIDE	BEVERAGE AIR	HR1HC–1HS	SA2651	7	KES	–	
178.05		2	REACH–IN FREEZER – SINGLE WIDE	BEVERAGE AIR	HF1HC–1HS	SA2651	7	KES	–	
181.13		1	REFRIGERATOR – SPECIALTY COFFEE– 27" WIDE	TRUE	TUC–27 MCDCF1	SA33040	7	KES	RIGHT–HAND HINGED	
181.14		1	REFRIGERATOR – WORKTOP – 48" WIDE	TRUE	TWT–48 MCD1	SA4065	7	KES	–	
183.00		2	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 33" H	KES	18012498	SA4044	7	KES	–	
183.02		4	REFRIGERATOR/FREEZER – 2 DRAWER BASE – 30" W X 30" H	KES	18021304	SA4044	7	KES	–	
187.71		1	FREEZER SHELVING 24" x 36" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742436E	–	2	KES	–	
187.73		2	FREEZER SHELVING 24" x 48" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742448E	–	2	KES	–	
187.75		2	FREEZER SHELVING 24" x 60" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742460E	–	2	KES	–	
188.00		7	DUNNAGE RACK 22" x 36"	INTERMETRO	HP2236PD	–	2	KES	–	
188.07		1	UNIVERSAL STAGING CART	ISS SHELVING	WST1384Y	–	2	KES	–	
188.08		3	DUNNAGE RACK 22" x 30"	INTERMETRO	HP2230PD	–	2	KES	–	
188.09		3	DUNNAGE RACK 22" x 48"	INTERMETRO	HP2248PD	–	2	KES	–	
189.71		1	COOLER SHELVING 24" x 36" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742436E	–	2	KES	–	
189.72		2	COOLER SHELVING 24" x 42" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742442E	–	2	KES	–	
189.73		1	COOLER SHELVING 24" x 48" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742448E	–	2	KES	–	
189.74		3	COOLER SHELVING 24" x 54" x 74" H. – 4–TIER	ISS SHELVING	FSMS/FSMA742454E	–	2	KES	–	
191.01		2	VALANCE SHELVING – 18" x 48"	INTERMETRO	M1848C–MP	–	2	KES	MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	
191.02		1	VALANCE SHELVING – 18" x 60"	INTERMETRO	M1860C–MP	–	2	KES	MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	
191.03		1	VALANCE SHELVING – 18" x 30"	INTERMETRO	M1830C–MP	–	2	KES	MOUNT AT 5'–0"AFF TO SHELF BOTTOM FOR ABOVE WASHER APPLICATION	
191.04		1	VALANCE SHELVING – 18" x 36"	INTERMETRO	M1836C–MP	–	2	KES	MOUNT AT 5'–0"AFF TO SHELF BOTTOM –W/ST STL LINER FOR SALAD EQUIP	
194.32		1	DRY SHELVING 26" x 52" x 84" H.– 4–TIER – MOBILE	DENSTOR	–	–	2	KES	–	
194.36		3	DRY SHELVING 26" x 100" x 84" H.–4–TIER – MOBILE	DENSTOR	–	–	2	KES	–	
195.36		2	DRY SHELVING 26" x 100" x 84" H.–5–TIER– MOBILE	DENSTOR	–	–	2	KES	–	
195.51		1	DRY SHELVING 26" x 100" x 84" H.– 5–TIER– FIXED	DENSTOR	–	–	2	KES	–	
196.06		1	SAFE – STANDARD BLDG. – LEFT HINGE	NKL	BSD4125FGXL–MC	–	–	OWNER	–	
197.00		2	STAINLESS STEEL HAND SINK	ADVANCE TABCO	7–PS–61	–	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7–PS–11) WHEN REQUIRED BY LOCAL CODE
197.01		1	HAND WASH TIMER	NATIONAL CONTROLS	TMD–T1715–120	E53595	–	KES	–	
197.03		2	STAINLESS STEEL HAND SINK – ADA	ADVANCE TABCO	7–PS–26	–	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7–PS–11D) WHEN REQUIRED BY LOCAL CODE
201.13		1	DRIVE–THRU CASH STAND – 21" D x 48" W	INTERMETRO	DT48–8	–	2	KES	SOLID WORK TOP, WIRE SHELVES	
201.15		1	READY NEXT DRIVE–THRU ASSEMBLY CART – 12" D x 36" W	INTERMETRO	DTPC–36	–	2	KES	–	
201.16		2	DRIVE–THRU ABS CART – LEFT HAND	KES	–	–	2	KES	ABS DRINK STAGING CART WITH TROUGH	
201.18		2	CBB STAGING CART	INTERMETRO	MCD–CBB	–	2	KES	–	
201.21		1	BLZ FRONT COUNTER TABLE – 30" D x 14" W	INTERMETRO	MCD1430–BLZM	–	2	KES	W/ CASTERS AND OVERSHELF	
201.22		1	BLZ DRIVE THRU TABLE – 24" D x 14" W	INTERMETRO	MCD1430–BLZT	–	2	KES	–	
203.01		1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	CARPIGIANNI	K3	SA4203	6	KES	SUPPLIED WITH CONE DISPENSER AND 7'–6" LONG CORD	
203.03		2	CUP/CONE DISPENSER	KES	–	–	2	KES	–	
205.08		1	BIC MACHINE	MULTPLEX	MA–8–2	SA12070	6	KES	–	
205.09		1	FROZEN BEVERAGE DISPENSER	IMI CORNELIUS	VIPER 3	SA2128	6	KES	–	
206.01		1	SPECIALTY BEVERAGE STANDOFF SHELF	KES	KES	–	2	KES	MOUNT SHELF @ 2'–6" AFF	
207.01		1	BLENDER – RAIL MOUNT – MCFLURRY	VITAMIX	056385	–	8	KES	SUPPLIED MOUNTING BRACKETS	
207.09		1	DESSERT BUTLER	KES	–	–	2	KES	–	–
211.00		1	DELIVERY TABLET	APPLE	IPAD	–	–	DELIVERY PARTNER	QUANTITY DEPENDENT UPON NUMBER OF DELIVERY PARTNERS	
214.02		1	82" 44U STATIONARY RACK	BY OWNER	BY OWNER	OEM	–	OWNER	–	
215.00		1	POS REGISTER – FRONT COUNTER	BY OWNER	BY OWNER	OEM	–	OWNER	INCLUDES MONITOR AND CPU	
215.02		4	POS REGISTER – 2 WINDOW D/T	BY OWNER	BY OWNER	OEM	–	OWNER	INCLUDES MONITOR AND CPU	
215.04		8	POS – KVS MONITOR	BY OWNER	BY OWNER	OEM	–	OWNER	–	
215.07		1	POS REGISTER – DELIVERY	BY OWNER	BY OWNER	OEM	–	OWNER	–	
216.00		9	POS – VIDEO MONITOR	BY OWNER	BY OWNER	E106786	–	OWNER	SUPPORTS INSTALLED BY GC IF REQUIRED – MOUNT @ 5'–8" AFF	FOR APPLICATIONS ABOVE ABS, MOUNT AT 6'–6" AFF
217.13		3	MERGE POINT MONITOR (DOUBLE DRIVE–THRU)	BY OWNER	BY OWNER	–	–	OWNER	MONITORS ARE REQUIRED FOR SIDE BY SIDE DRIVE THRU SYSTEM	–
217.14		1	POS – ORDER MONITOR (DOUBLE DRIVE THRU)	BY OWNER	BY OWNER	E106786	–	OWNER	SUPPORTS INSTALLED BY GC IF REQUIRED – MOUNT @ 5'–8" AFF	
217.19		1	WIRELESS HEADSET BASE STATION	HME	NEXEO HDX	–	–	OWNER	–	
217.24		1	DANGER POINT MONITOR (DOUBLE DRIVE–THRU)	BY OWNER	BY OWNER	–	–	OWNER	MONITORS ARE REQUIRED FOR SIDE BY SIDE DRIVE THRU SYSTEM	
217.26		1	ZOOM TIMER	HME	ZOOM NITRO	–	–	OWNER	–	
219.00		4	POS – RECEIPT PRINTER	BY OWNER	BY OWNER	OEM	–	OWNER	–	
219.05		7	STICKY LABEL PRINTER	BY OWNER	BY OWNER	OEM	–	OWNER	–	–
219.06		1	LABELING SYSTEM	TRANSACT	9700	–	–	KES	–	
220.00		1	POS – COIN DISPENSER	BY OWNER	BY OWNER	OEM	–	OWNER	–	
221.02		1	25" 12U NETWORK WALL RACK	TRIPP–LITE	SRW12USDP	OEM	–	OWNER	–	
221.09		1	O/O EQUIPMENT RACK	TRIPP–LITE	SRW12USDP	–	–	OWNER	AVAILABLE THROUGH POS SUPPLIER	
222.01		1	TIME CLOCK	BY OWNER	BY OWNER	OEM	–	OWNER	–	
223.07		1	WASHER – ELECTRIC	WHIRLPOOL	CAE2793BQ	–	–	KES	–	
225.03		1	OFFICE PACKAGE/DESK UNIT	DENSTOR	2000–0100	–	–	KES	WORK SURFACE 75", (1) DESK PEDESTAL W/ 2 DRAWERS AND (1) PEDESTAL W/ 3 DRAWERS	
225.04		1	OFFICE PACKAGE/ 2–WALL CABINETS	DENSTOR	2000–0200	–	–	KES	–	
225.05		1	OFFICE PACKAGE/HIGH WORK SURFACE	DENSTOR	2000–0300	–	–	KES	W/ (6) L–BRACKETS – WORK SURFACE IS 75" W. – CUT IN FIELD IF REQUIRED	
225.06		1	OFFICE PACKAGE W/3 DRAWER LATERAL FILE	DENSTOR	2000–0400	–	–	KES	–	
226.08		4	CREW LOCKERS –12" x 12" x 18" (6 HIGH)	DENSTOR	3–121278	–	2	KES	–	
226.09		1	CREW SMART LOCKERS	DENSTOR	C3	–	–	KES	LOCATED IN CREW ACCESSORY CABINET	
237.00		1	PIE DISPLAY	PRINCE CASTLE	524–MCDC	E341354	4	KES	PROVIDE WITH S/S PANEL	
700.02		2	MOP SINK	GC	–	–	2	GC	–	
700.06		1	WATER HEATER – ELECTRIC 54KW	GC	SEE RMKS	–	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS	
700.09		1	ECONOMY OEP BOX W/MOUNTING HARDWARE	ACS	OEP–6	E71309	–	KES	6" W. x 24" D.	
700.10	X	1	BULK OIL SYSTEM	RTI	BI–3F	SEE RMKS	4	MANU–FACTURER	IF AVAILABLE IN MARKET – ETL ELECTRICAL RATING: 990762	
700.11		1	OEP UTILITY PANEL W/ MOUNTING HARDWARE – STATIC BOX	H&K DALLAS	–	–	–	H&K DALLAS	2'–4"x2'–4" x4" HIGH BOX	
700.18	X	1	BULK OIL FILL BOX – 8"Wx10"H	RTI	–	–	–	MANU–FACTURER	SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT. INSTALLED BY GC	
700.27		1	RINSE STATION – NO SPOON WASH	H&K	HK94024	–	–	KES	–	

SEE SHEET K2.0 FOR EQUIPMENT LAYOUT AND TAG IDENTIFICATION

1 / K2.1 KITCHEN SCHEDULE

BY	DESCRIPTION	DATE	REV
	PROTOTYPE UPDATES	07/22/2026	1

PREPARED BY:
JAW Architects, Inc.
Jeremy Williams, Architect
Phone: 817-926-3387
Email: jeremy@jaw-arch.com

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	JAW
STD ISSUE DATE	2026
REVIEWED BY	JAW
DATE ISSUED	04/15/2026
TITLE	2026 STANDARD BUILDING – BB20 4590–WOOD/WOOD
DESCRIPTION	WOOD BEARING WALLS WOOD ROOF TRUSS FRAMING
SITE ADDRESS	SWC OF E. NEW MELVILLE RD & S HUNT RD WILLARD, MO 65781
SITE ID	024–1329
SHEET NO.	JAWA 26–0041 K2.1 KITCHEN SCHEDULE