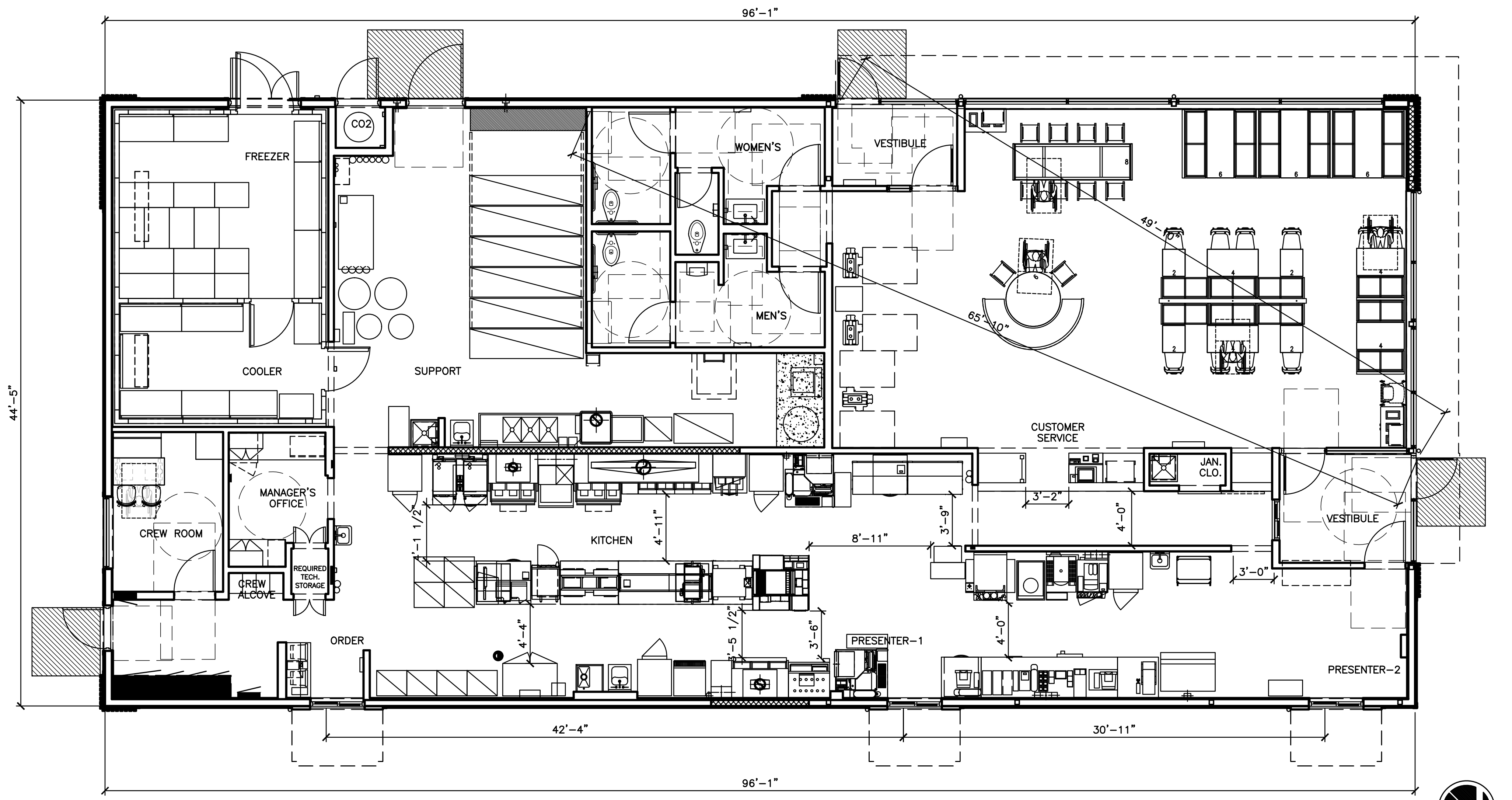
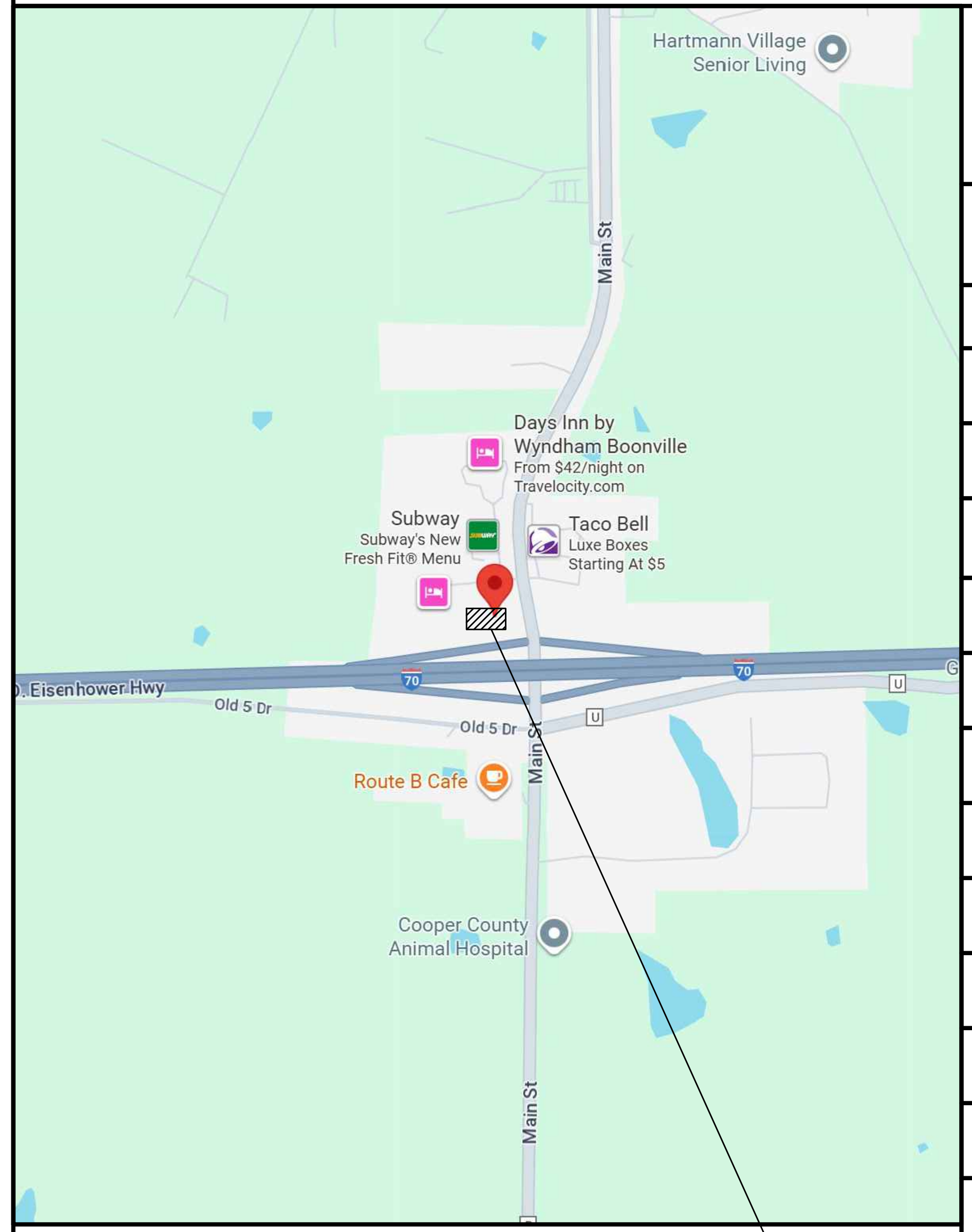


## 4597–WW PLAN

## 52 SEATS (4 ACCESSIBLE SEATS)

THIS DRAWING IS
FOR REFERENCE ONLY
NOT FOR CONSTRUCTION


Hartmann Village Senior Living
Main St
Days Inn by Wyndham Boonville
From $42/night on Travelocity.com
Subway
Subway's New Fresh Fit® Menu
Taco Bell
Luxe Boxes Starting At $5
Eisenhower Hwy
Old S Dr
Old S Dr
Route B Cafe
Cooper County Animal Hospital
Main St
70

VICINITY MAP: NORTH — SITE

## OCCUPANCY ALLOWANCE:

INTERNATIONAL BUILDING CODE 2021

TABLE 1004.5
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

| FUNCTION OF SPACE | ALLOWANCE | AREA | OCCUPANTS |
|---|---|---|---|
| ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 300 GROSS | 564 SF | 2 |
| ASSEMBLY WITH FIXED SEATS | SEE PLAN | – | 52 |
| ASSEMBLY W/OUT FIXED SEATS STANDING SPACE | 5 NET | 110 SF | 22 |
| BUSINESS AREAS | 150 GROSS | 65 SF | 1 |
| KITCHEN, COMMERCIAL (OCCUPANT LOAD FOR FULL STAFF) | 200 GROSS | – | 14 |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| | | | |
| TOTAL OCCUPANCY ALLOWANCE | | | 91 |

# 2025 4597–WW BUILDING BB20
# NASHVILLE FIELD OFFICE

## BUILDING INFORMATION:

### ADDRESS:

STATE SITE CODE: 024–0281
STREET ADDRESS: 490 AMERICANA
CITY: BOONVILLE
COUNTY: COOPER
STATE: MISSOURI

### STRUCTURE:

WOOD LOAD BEARING WALLS, WOOD ROOF FRAMING

### UTILITIES:

ELECTRIC GRILLS & GAS FRYERS
GAS HVAC & GAS WATER HEATER

### BUILDING CODE:

| | |
|---|---|
| BUILDING CODE EDITION: | 2006 INTERNATIONAL BUILDING CODE |
| MECHANICAL CODE EDITION: | 2006 INTERNATIONAL MECHANICAL CODE |
| ELECTRICAL CODE EDITION: | 2005 NFPA 70 NATIONAL ELECTRICAL CODE |
| PLUMBING CODE EDITION: | 2006 INTERNATIONAL PLUMBING CODE |
| ENERGY CODE EDITION: | 2006 INTERNATIONAL ENERGY CONSERVATION CODE |
| FIRE/LIFE SAFETY CODE EDITION: | 2006 NFPA 101 LIFE SAFETY CODE |
| FUEL/GAS CODE EDITION: | 2006 INTERNATIONAL FUEL GAS CODE |
| HEALTH CODE EDITION: | XXXX COUNTY HEALTH CODE |
| ACCESSIBILITY CODE EDITION: | 2017 ICC A117.1<br>2010 ADA STANDARDS FOR ACCESSIBLE DESIGN |

### BUILDING DATA:

OCCUPANCY: USE GROUP A2
CONSTRUCTION TYPE: VB
NUMBER OF STORIES: 1
BUILDING HEIGHT: 18'–9 1/2" (MAIN BLDG. PARAPET)

| | |
|---|---|
| GROSS BUILDING AREA: | 4,310 S.F. |
| FLOOR AREA, GROSS: | 4,123 S.F. |

### DESIGN LOADS:

| | |
|---|---|
| GROUND SNOW LOAD: | 20 PSF |
| WIND SPEED: | 115 MPH (EXPOSURE C) |
| SEISMIC DESIGN CATEGORY: | B |
| SOIL BEARING CAPACITIES: | 5,000 PSF |

### 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 ADDRESS: | PHONE #: | LICENSE #: |
|---|---|---|---|---|
| ARCHITECT: | CHRIS W. SHEPPARD | chris@taylorkempkes.com | 501–624–5679 | 2024044882 |
| STRUCTURAL: | DAVID BALMA | dbalma@core–eng.com | 215–809–2125 | 2015003007 |
| MECHANICAL: | DAVID M. LEIFFER | dleiffer@core–eng.com | 479–877–3465 | 2013011214 |
| PLUMBING: | DAVID M. LEIFFER | dleiffer@core–eng.com | 479–877–3465 | 2013011214 |
| ELECTRICAL: | JOHN D. FERGUSON | jferguson@core–eng.com | 479–877–3438 | 2008014085 |

## CONSTRUCTION PROJECT MANAGER:

| | NAME: | ADDRESS: | EMAIL: | PHONE #: |
|---|---|---|---|---|
| MANAGER: | DEBRA LYSTER | 7283 East State Hwy 76<br>Anderson, MO 64831 | debra.lyster@us.mcd.com | (417) 592–2886 |

REVISIONS

A
A
A
A

# DRAWING INDEX

GN1.0 Cover Sheet
GN1.1 General Notes

REFERENCE
DT1.0 Drive–Thru Plan & Details
R1.0 Square Footage
R1.1 Occupancy Count
R1.2 Exiting Plan
R1.3 Seating Plan
R1.4 IP–CCTV Plan
R1.5 Signage Plan

ARCHITECTURAL
A1.0 Floor Plan
A1.2 Reflected Ceiling Plan
A1.3 Roof Plan
A2.0 Elevations
A2.1 Elevations
A3.1 Service Pod Details
A4.0 Enlarged Restroom Plan & Details
A4.1 Enlarged Plan Details
A5.0 Wall Sections & Details
A5.1 Wall Sections & Details
A5.2 Wall Sections & Details
A5.3 Wall Sections & Details
A6.0 Door & Hardware Schedules
A6.1 Finish Schedules

STRUCTURAL
S1.0 Foundation Plan
S1.2 Roof Framing Plan
S2.0 Foundation Sections
S3.0 Framing Sections
S3.1 Steel Details
S3.2 Details
S3.5 Framing Sections
S4.0 Structural Notes

MECHANICAL
M1.0 Mechanical Roof Plan
M1.2 Ductwork Plan
M1.4 Refrigerant & Gas Piping Plan
M2.0 Exhaust Hoods
M3.0 Mechanical Details
M4.0 General Notes
M4.1 Mechanical Schedules

PLUMBING
P1.0 Domestic Water Piping
P1.2 Waste Vent & Storm Piping Plan
P1.3 Underground Plumbing Plan
P1.4 Underground Rough–in
P1.6 Overhead Rough–in
P2.0 Domestic Water Isometric
P2.1 Waste & Vent Isometric
P2.2 Storm Isometric
P3.0 Details
P4.0 General Notes
P4.1 Schedules

ELECTRICAL
E1.0 POS Electrical Riser Diagram
E1.1 Rough In Floor Plan
E2.0 Lighting Plan & Schedule
E2.1 Electrical Roof Plan
E3.0 Electrical Schedule
E3.1 Electrical & Lighting Notes
E3.2 Interlock Diagrams
E4.0 Wiring Details
E4.1 Lighting Controls
E4.2 Utilities Distribution

KITCHEN EQUIPMENT
K1.0 Kitchen Cover Sheet
K2.0 Kitchen Equipment Plan
K2.1 Kitchen Equipment Schedule

TRASH ENCLOSURE
TE1.0 Trash Enclosure

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 02–03–26 | Changing Water Heater and RTUs to Gas, Decor Updates | SO |

STATE OF MISSOURI
WILLIAM SHEPPARD
NUMBER A-2024044882
ARCHITECT
11-14-2025

PREPARED BY:
William C Sheppard
ARCHITECT
210 CENTRAL AVE., STE 3
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PREPARED FOR:
**McDonald's USA, LLC**
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DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10–16–2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
GN1.0
COVER

# 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. GENERAL 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 MASONRY 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

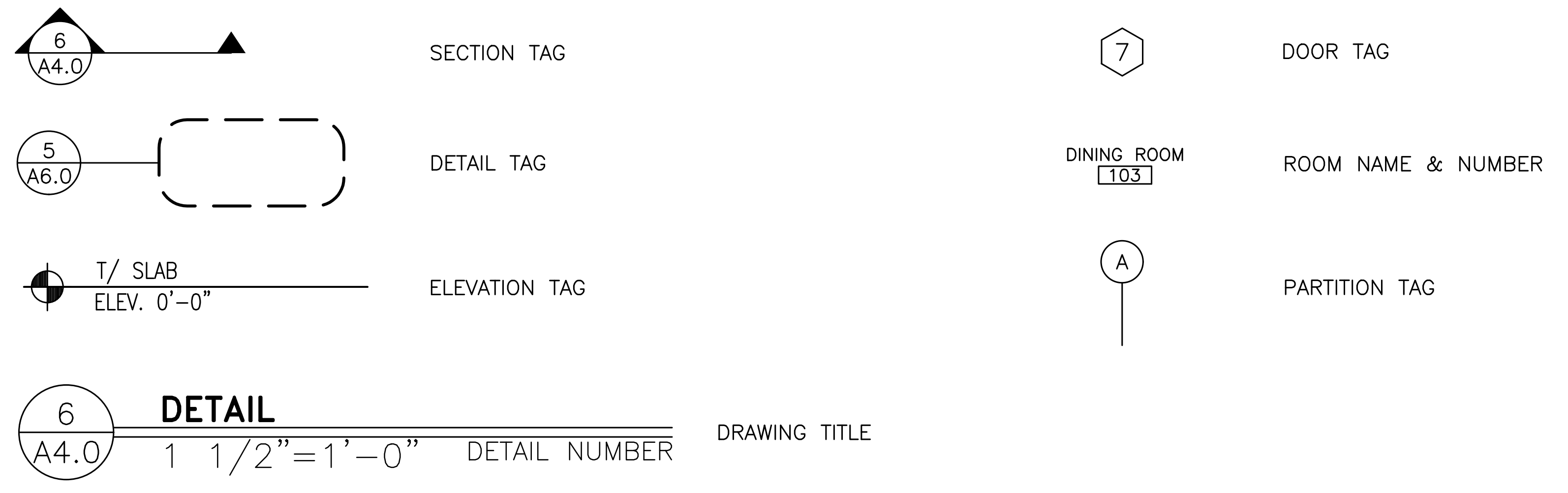
## GENERAL ABBREVIATIONS

| | |
|---|---|
| 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 |
| DO | 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 |
| CP | CENTRAL PURCHASING |
| CT | WALL TILE |
| D# | DECOR ELEMENT OR FINISH |
| DEVICE | |
| 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:



| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

WILLIAM SHEPPARD
NUMBER A-2024044882
ARCHITECT
11-14-2025

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PHONE 501-624-5679

PREPARED FOR:
**McDonald's USA, LLC**

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DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10–16–2025

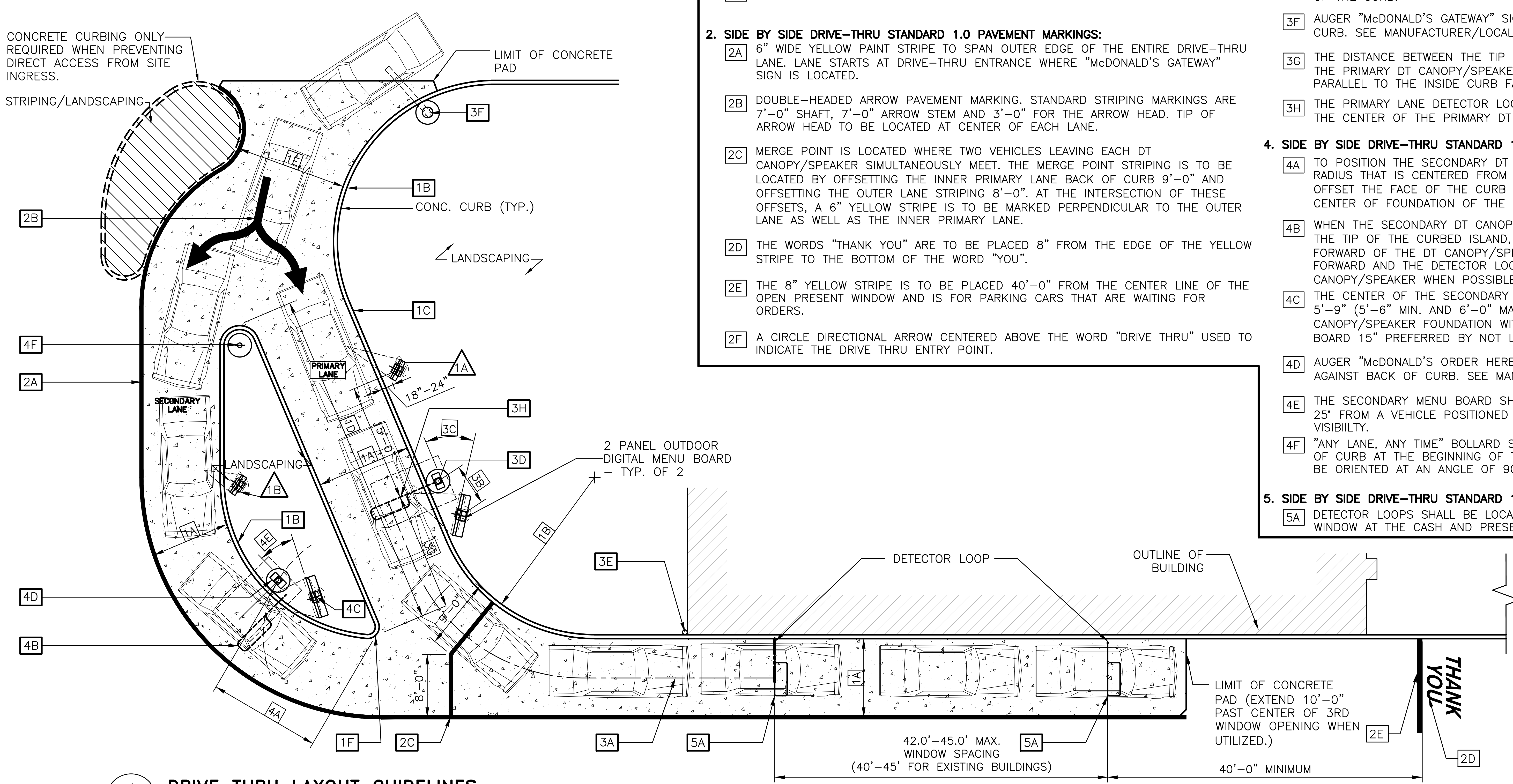
TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
GN1.1
GENERAL NOTES

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


CONCRETE CURBING ONLY REQUIRED WHEN PREVENTING DIRECT ACCESS FROM SITE INGRESS.
STRIPING/LANDSCAPING
LIMIT OF CONCRETE PAD
3F
1E
1B
CONC. CURB (TYP.)
2B
LANDSCAPING
1C
4F
2A
SECONDARY LANE
PRIMARY LANE
1A
18"–24"
3H
3C
3D
2 PANEL OUTDOOR DIGITAL MENU BOARD – TYP. OF 2
LANDSCAPING
1B
1A
3B
3G
1B
4E
4C
4D
4B
4A
3E
8'–0"
9'–0"
1F
2C
3A
5A
1A
DETECTOR LOOP
OUTLINE OF BUILDING
LIMIT OF CONCRETE PAD (EXTEND 10'–0" PAST CENTER OF 3RD WINDOW OPENING WHEN UTILIZED.)
2E
THANK YOU
2D
42.0'–45.0' MAX. WINDOW SPACING (40'–45' FOR EXISTING BUILDINGS)
5A
40'–0" MINIMUM

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% VISIBIILTY.

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.

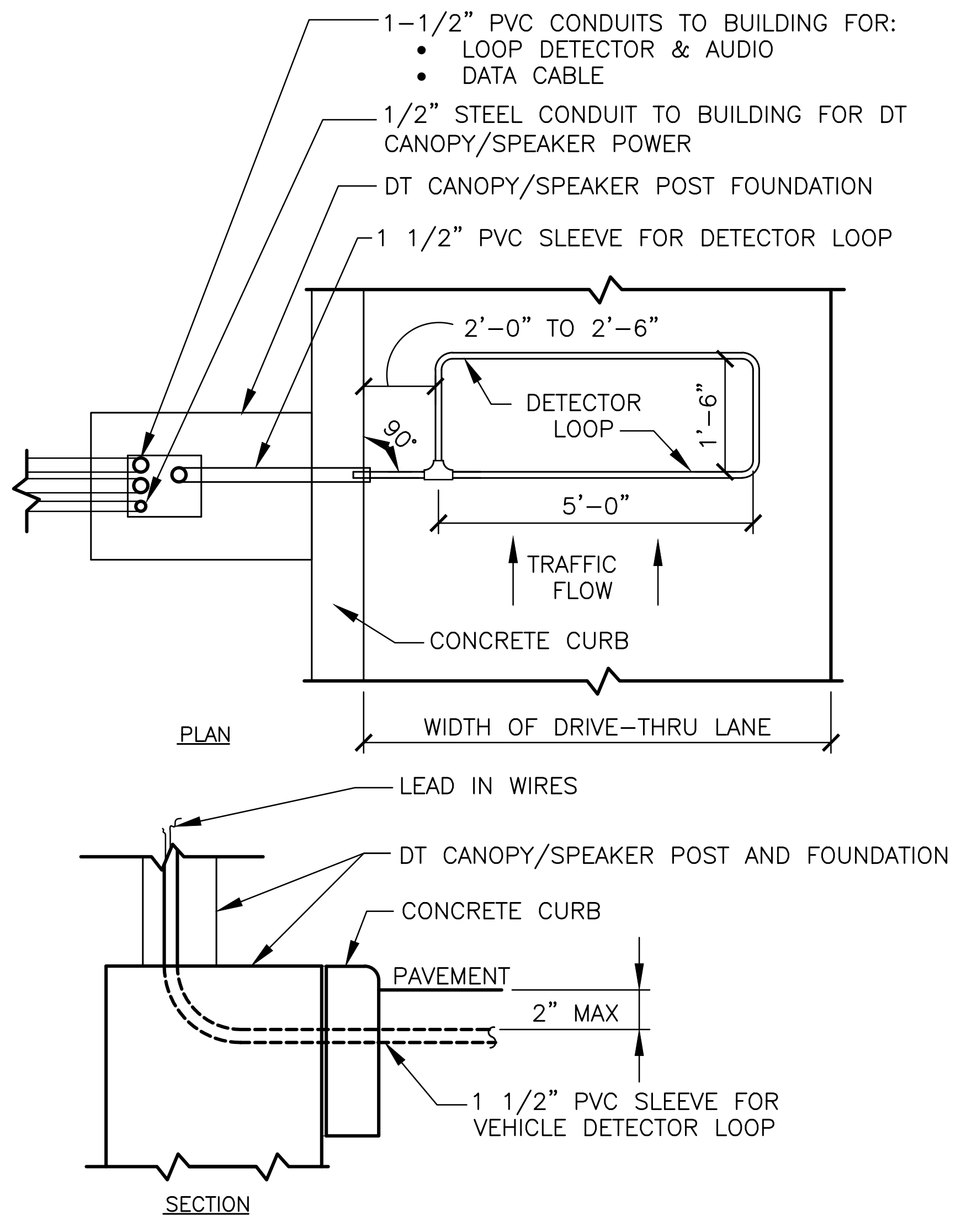
1B PRE–BROWSE BOARD MUST BE MIN. 12" FROM FACE OF CURB. THE DISTANCE BETWEEN THE SECONDARY DT CANOPY/SPEAKER AND PRE–BROWSE BOARD IS TO BE 15' AS MEASURED ALONG FACE OF THE CURB. THIS IS MEASURED FROM THE POINT PERPENDICULAR TO THE CENTER OF THE PRE–BROWSE BOARD FOUNDATION TO THE POINT PERPENDICULAR 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

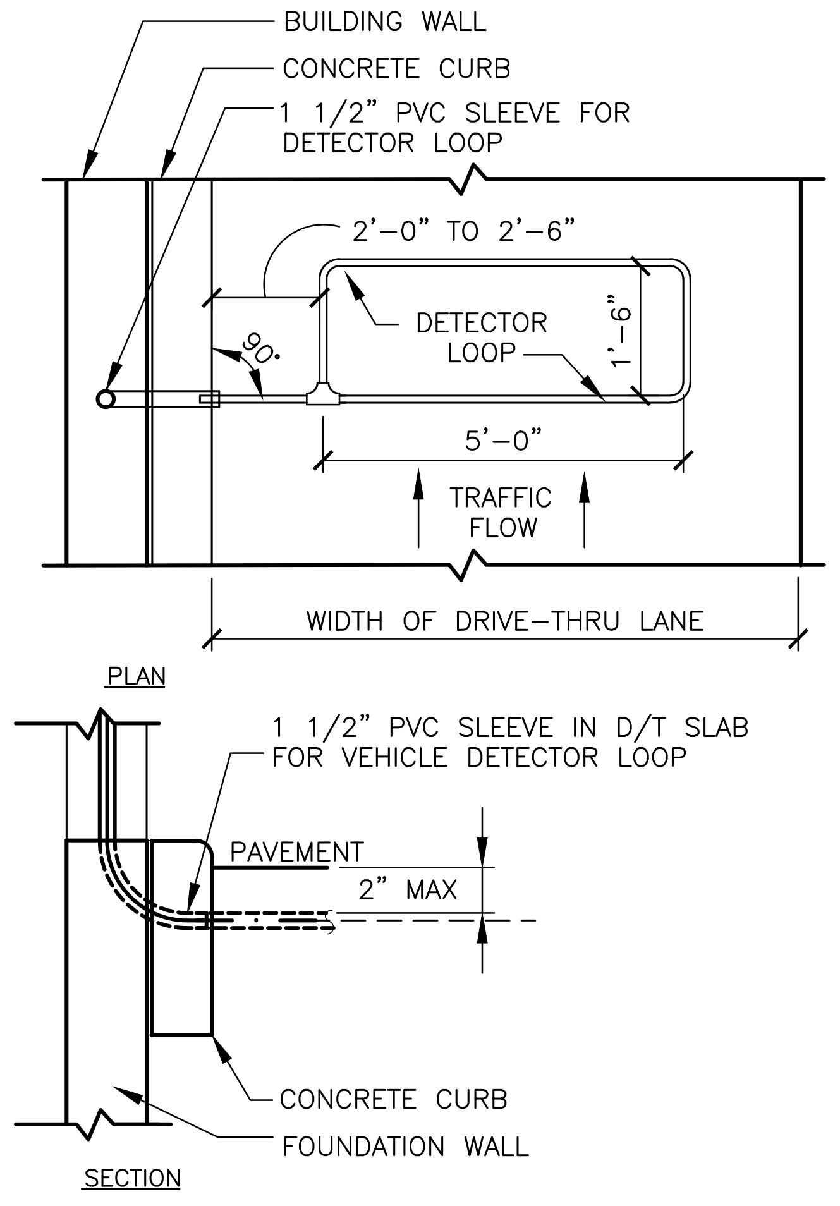
1. **DRIVE–THRU ELEMENTS:**
   **DT CANOPY/SPEAKER DRIVE–THRU PYLON/CLEARANCE POLE AND BOLLARD SIGN SHALL BE CONSISTENT WITH THE STANDARD BUILDING DESIGN DRIVE–THRU ELEMENTS.**
   **OTHER DESIGNS MAY NOT BE USED.**
2. CONTRACTOR SHALL COORDINATE WITH APPLICABLE PLANS, McDONALD'S AREA CONSTRUCTION MANAGER, 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.


1–1/2" PVC CONDUITS TO BUILDING FOR:
• LOOP DETECTOR & AUDIO
• DATA CABLE
1/2" STEEL CONDUIT TO BUILDING FOR DT CANOPY/SPEAKER POWER
DT CANOPY/SPEAKER POST FOUNDATION
1 1/2" PVC SLEEVE FOR DETECTOR LOOP
2'–0" TO 2'–6"
DETECTOR LOOP
1'–6"
90°
5'–0"
TRAFFIC FLOW
CONCRETE CURB
PLAN
WIDTH OF DRIVE–THRU LANE
LEAD IN WIRES
DT CANOPY/SPEAKER POST AND FOUNDATION
CONCRETE CURB
PAVEMENT
2" MAX
1 1/2" PVC SLEEVE FOR VEHICLE DETECTOR LOOP
SECTION

A – DT CANOPY/SPEAKER DETECTOR LOOP



B – DT WINDOW DETECTOR LOOP

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

REV | DATE | DESCRIPTION | BY

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:
William C Sheppard
ARCHITECT
210 CENTRAL AVE., STE 3
HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:
**McDonald's USA, LLC**

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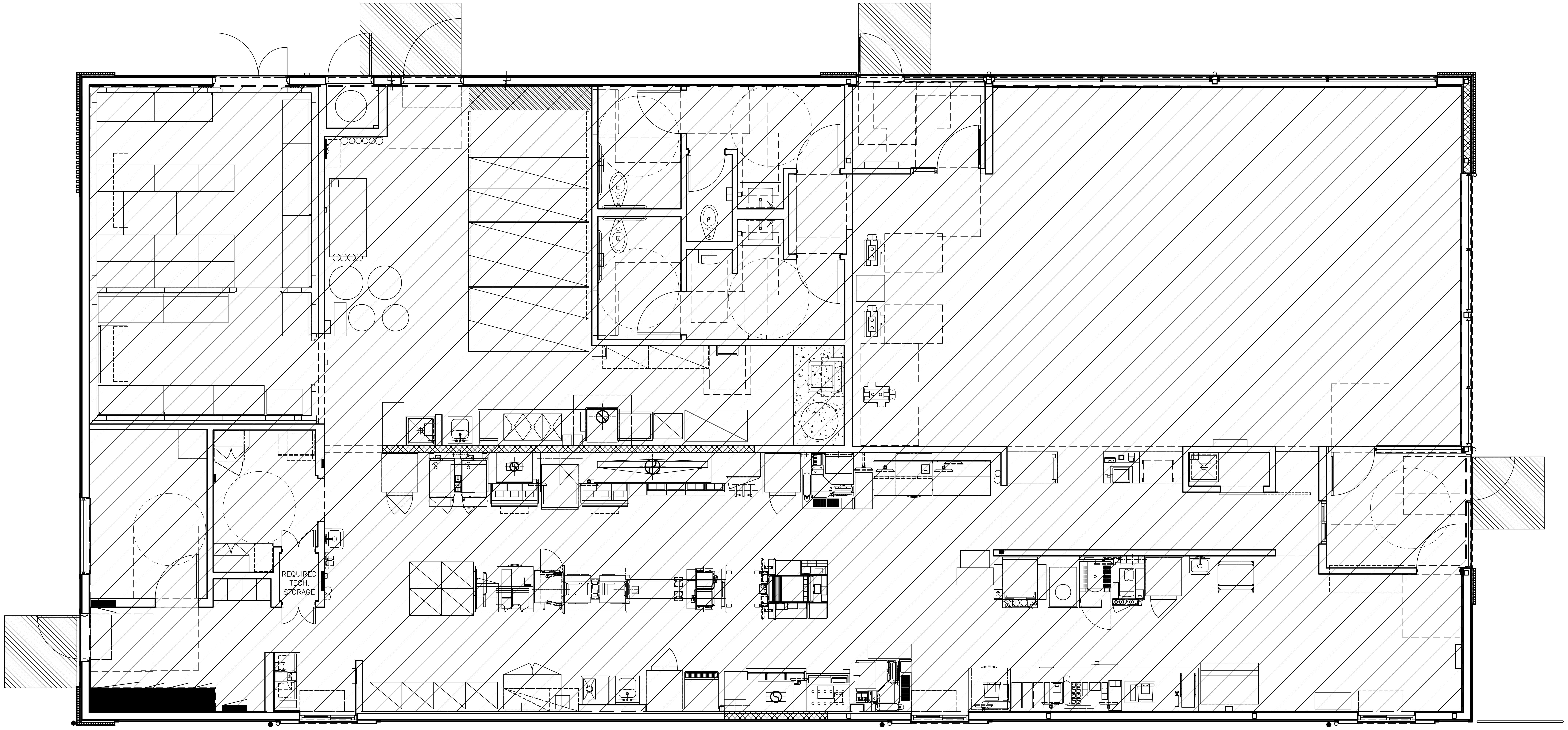
DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10–16–2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
**DT1.0**
DRIVE–THRU DETAILS



BASE BUILDING: 4,310 GROSS S.F.
4,123 NET S.F.

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

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

STATE OF MISSOURI
WILLIAM SHEPPARD
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11-14-2025

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BOONVILLE, MO, 65233-9756

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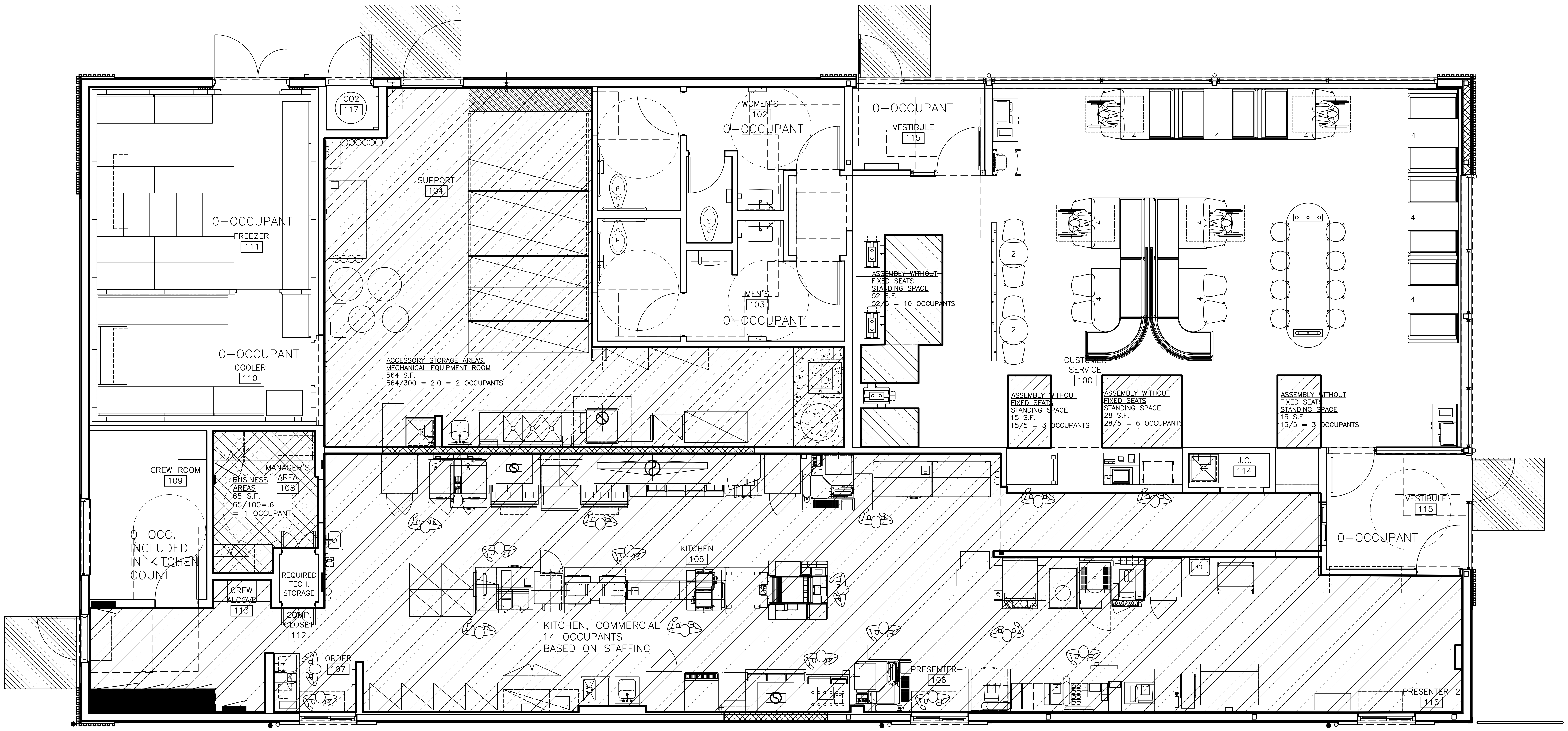
R1.0
SQUARE FOOTAGE



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

## OCCUPANCY ALLOWANCE:

INTERNATIONAL BUILDING CODE 2021

TABLE 1004.5
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

| FUNCTION OF SPACE | ALLOWANCE | AREA | OCCUPANTS | |
|---|---|---|---|---|
| ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 300 GROSS | 564 SF | 2 | ▨ |
| ASSEMBLY WITH FIXED SEATS | SEE PLAN | – | 52 | ▨ |
| ASSEMBLY W/OUT FIXED SEATS STANDING SPACE | 5 NET | 110 SF | 22 | ▨ |
| BUSINESS AREAS | 150 GROSS | 65 SF | 1 | ▦ |
| KITCHENS, COMMERCIAL | 200 GROSS | – | 14 | ▨ |
| TOTAL OCCUPANCY ALLOWANCE | | | 91 | |

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|

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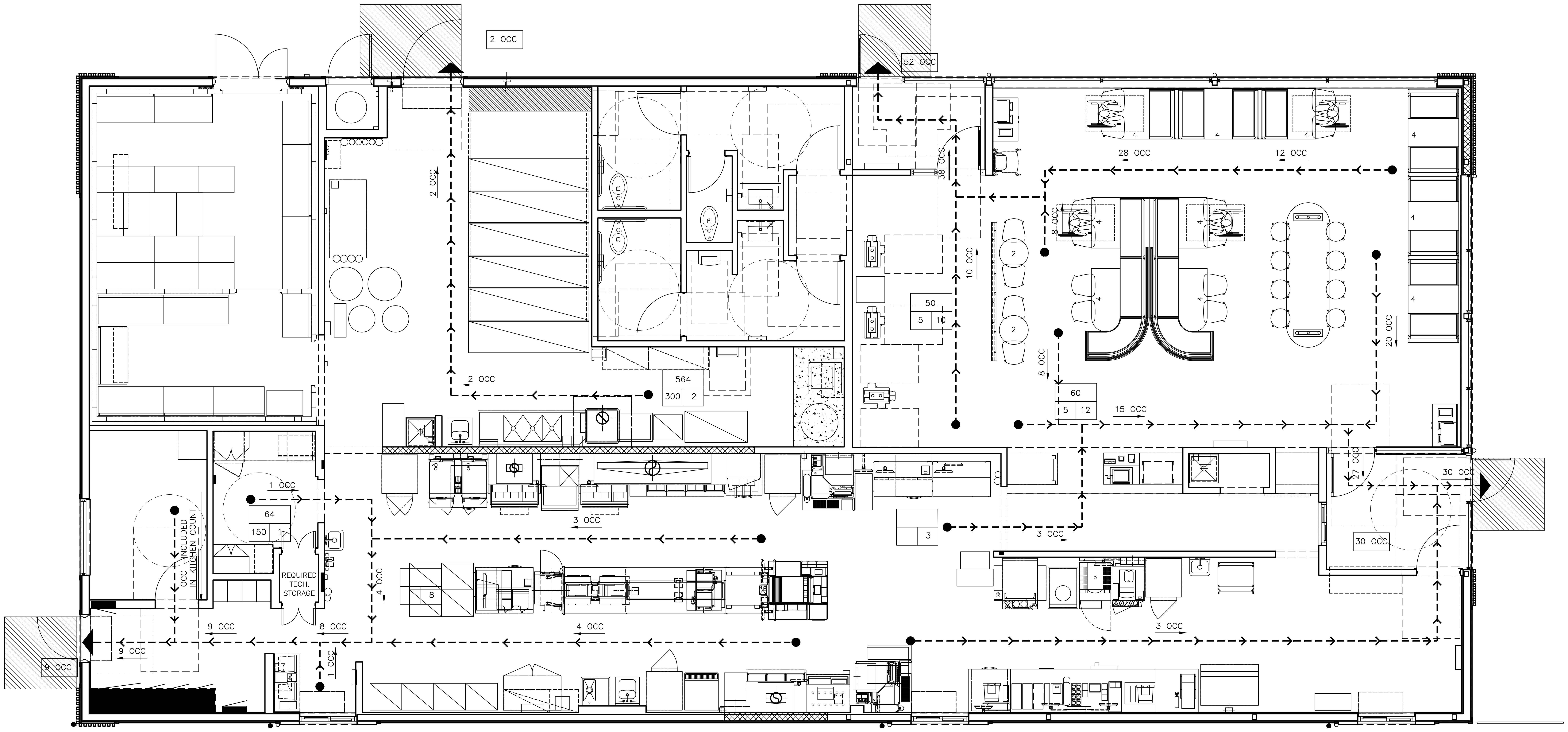
SHEET NO.
024-0281.00.0
R1.1
OCCUPANCY PLAN



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

## OCCUPANCY ALLOWANCE:

INTERNATIONAL BUILDING CODE 2021

TABLE 1004.5
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

| FUNCTION OF SPACE | ALLOWANCE | AREA | OCCUPANTS |
|---|---|---|---|
| ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM | 300 GROSS | 564 SF | 2 |
| ASSEMBLY WITH FIXED SEATS | SEE PLAN | – | 52 |
| ASSEMBLY W/OUT FIXED SEATS STANDING SPACE | 5 NET | 110 SF | 22 |
| BUSINESS AREAS | 150 GROSS | 65 SF | 1 |
| KITCHENS, COMMERCIAL | 200 GROSS | – | 14 |
| TOTAL OCCUPANCY ALLOWANCE | | | 91 |

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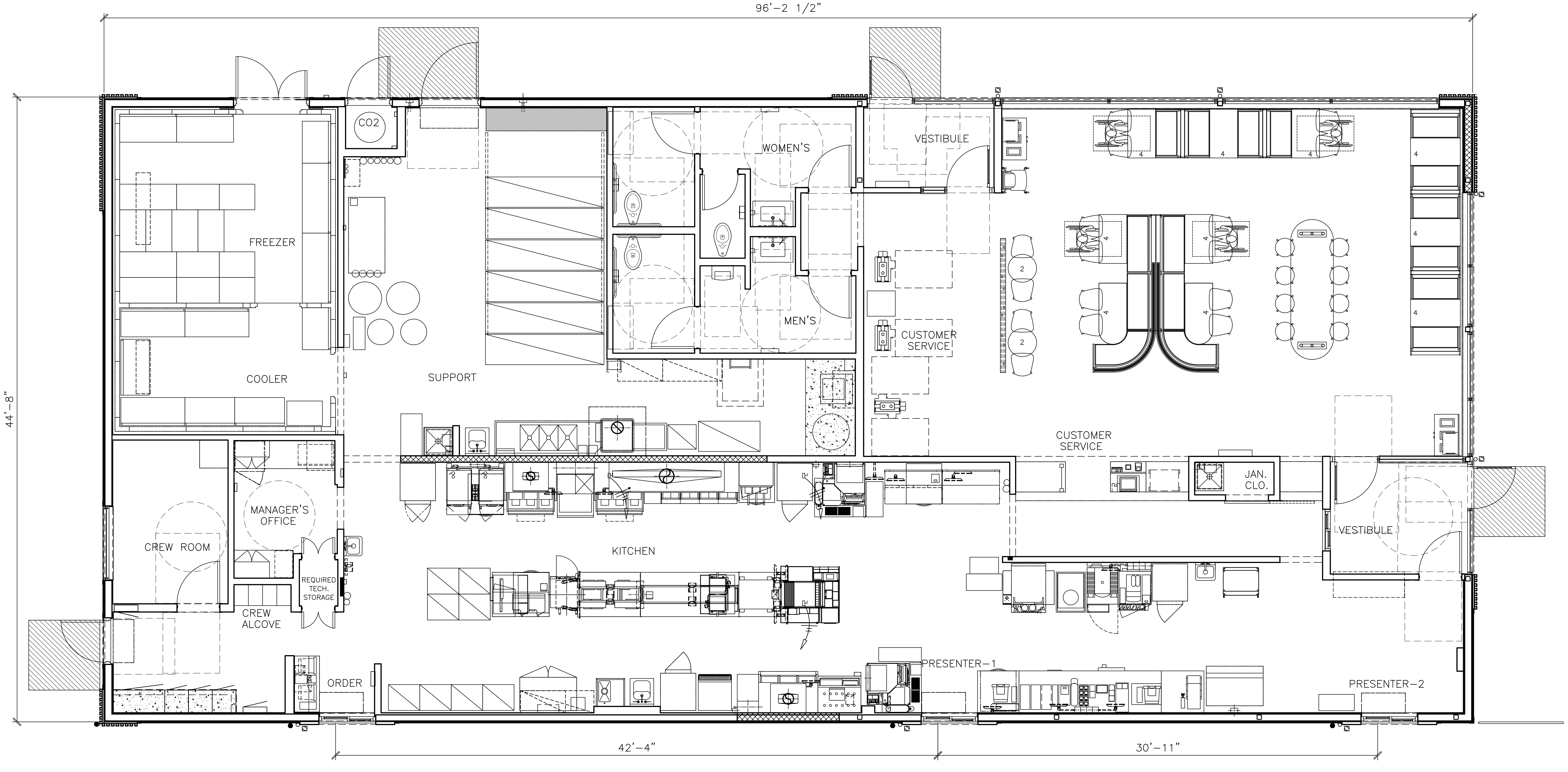

1
R1.3

**FLOOR PLAN**
1/4"=1'-0"

# 4597 - WW PLAN
# 4,310 GROSS SQ. FT. / 4,123 NET SQ. FT.
# 52 SEATS (4 ACCESSIBLE SEATS)

THIS DRAWING IS
FOR REFERENCE ONLY
NOT FOR CONSTRUCTION
SEATING LAYOUT IS SCHEMATIC, THE FINAL
SEATING LAYOUT TO BE PROVIDED BY OTHERS.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|

11-14-2025
WILLIAM SHEPPARD
NUMBER A-2024044882

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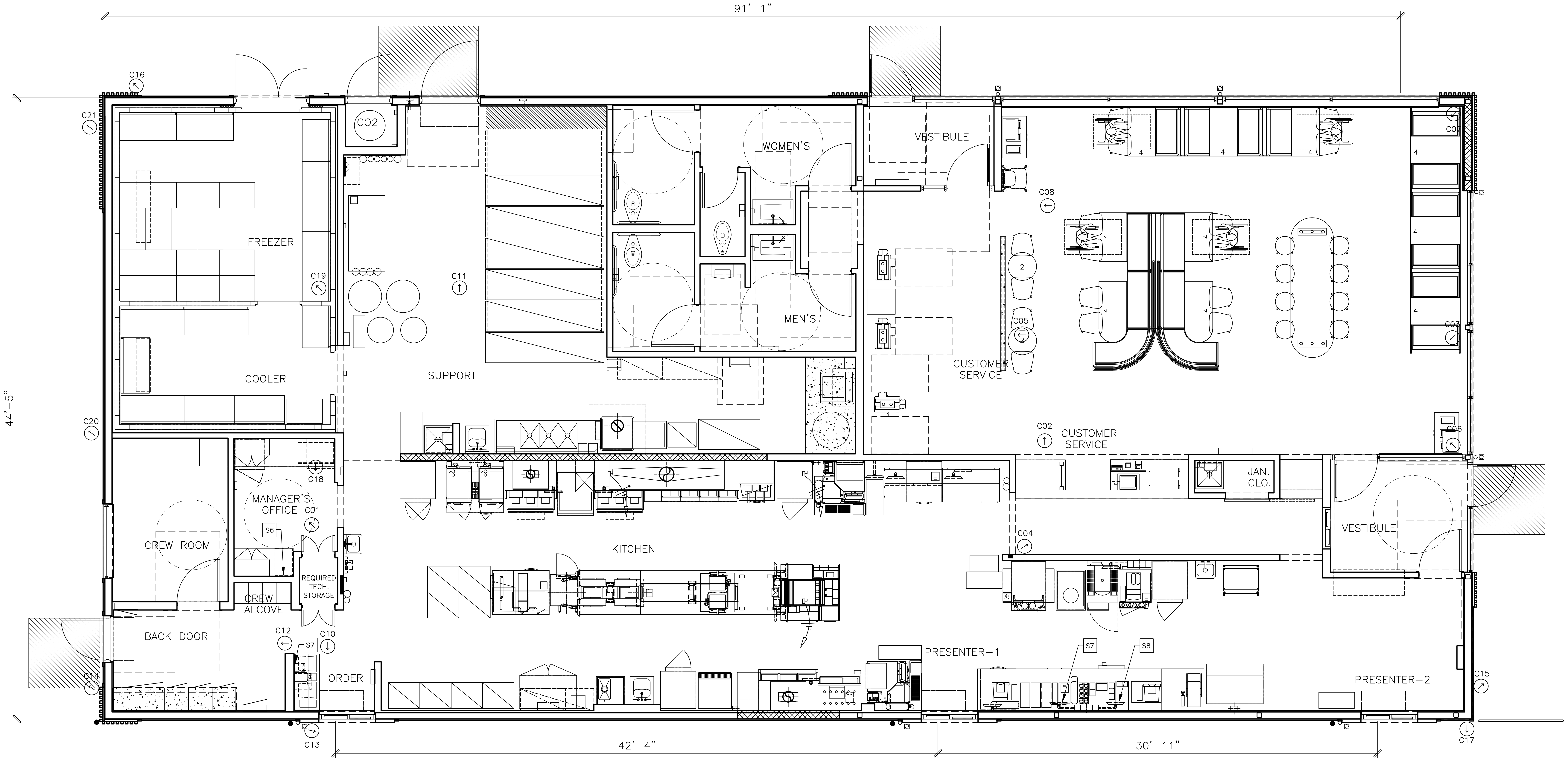
NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
R1.3
SEATING PLAN



1
R1.3

## FLOOR 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/<br>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 |
|---|---|---|---|

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:

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WOOD TRUSS ROOF FRAMING
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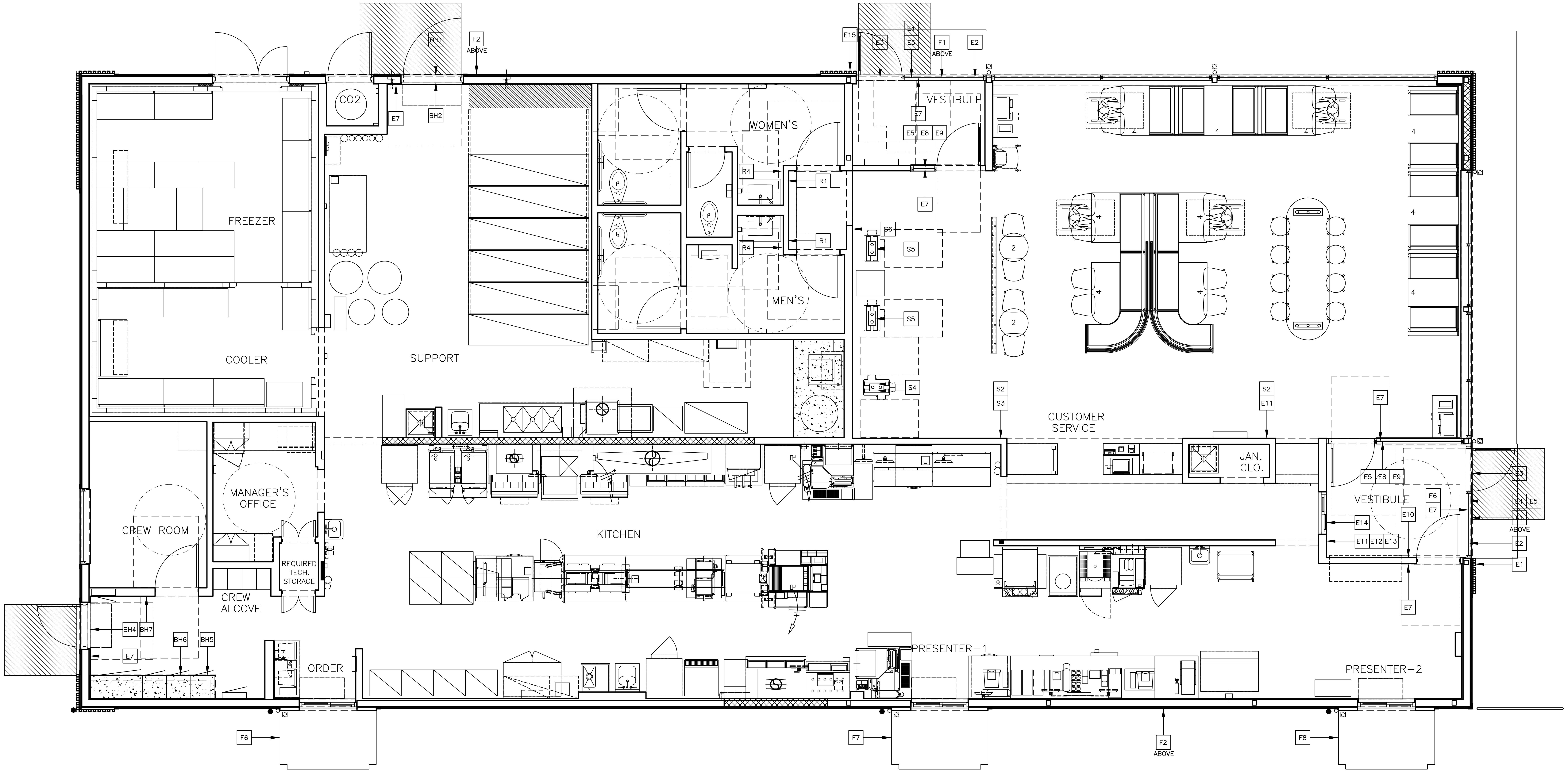
SHEET NO.
024-0281.00.0
R1.4
IP-CCTV PLAN



1
R1.5

**FLOOR 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 |
| | | | |
| 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 |
| | | | |
| 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–DT5, & 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 |
|---|---|---|---|
| | | | |
| | | | |
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| | | | |
| | | | |

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:
William C Sheppard
ARCHITECT
210 CENTRAL AVE., STE 3
HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:

**McDonald's USA, LLC**

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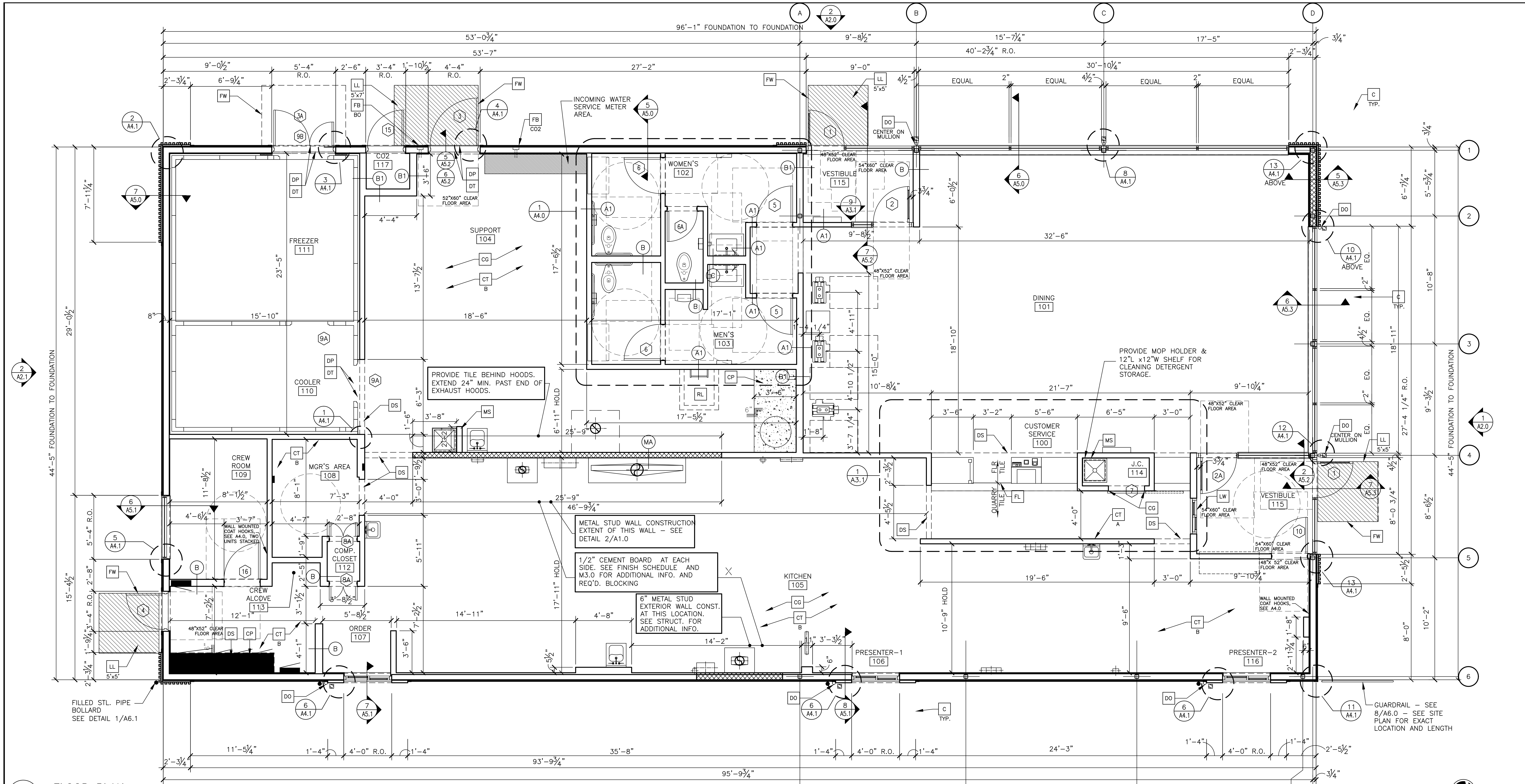
DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

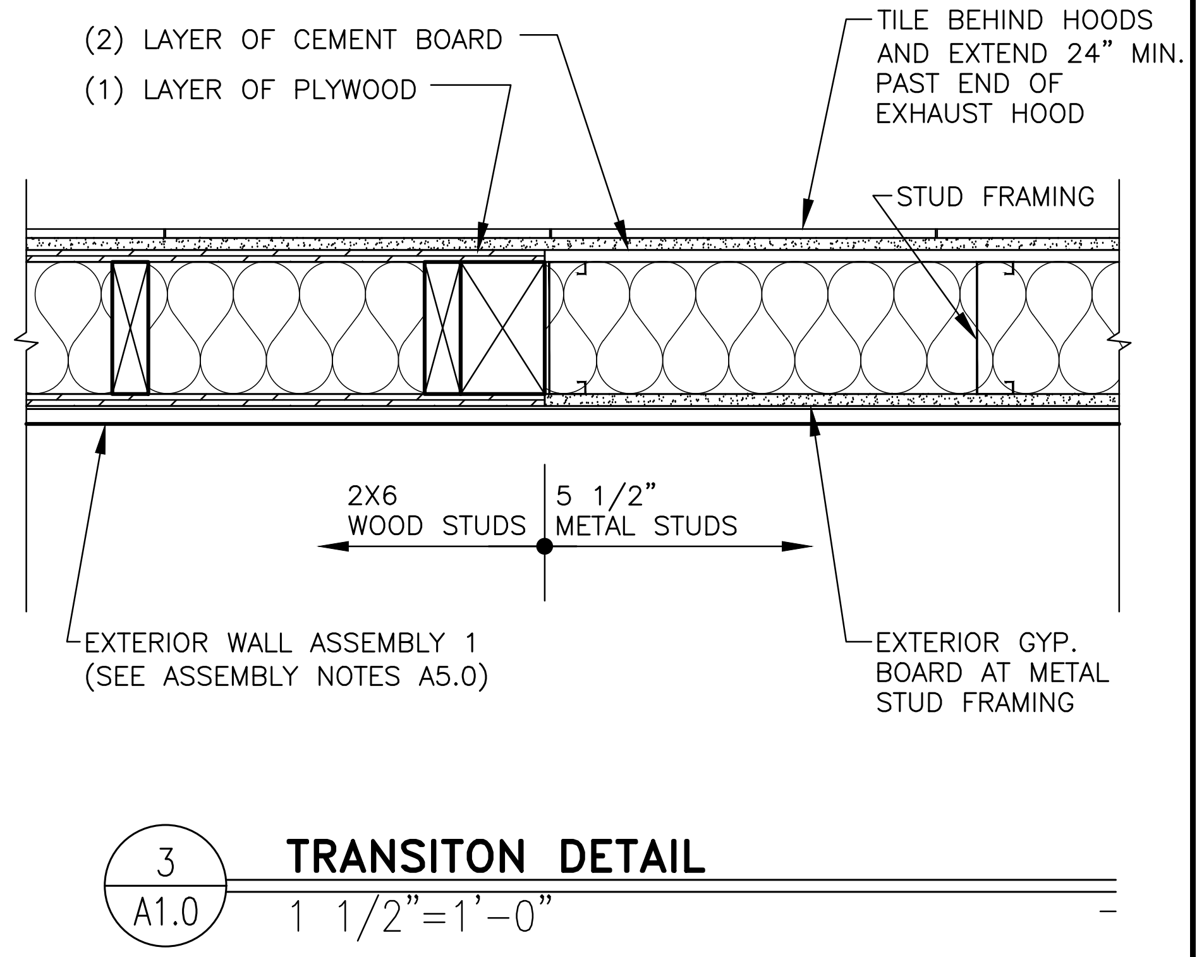
DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

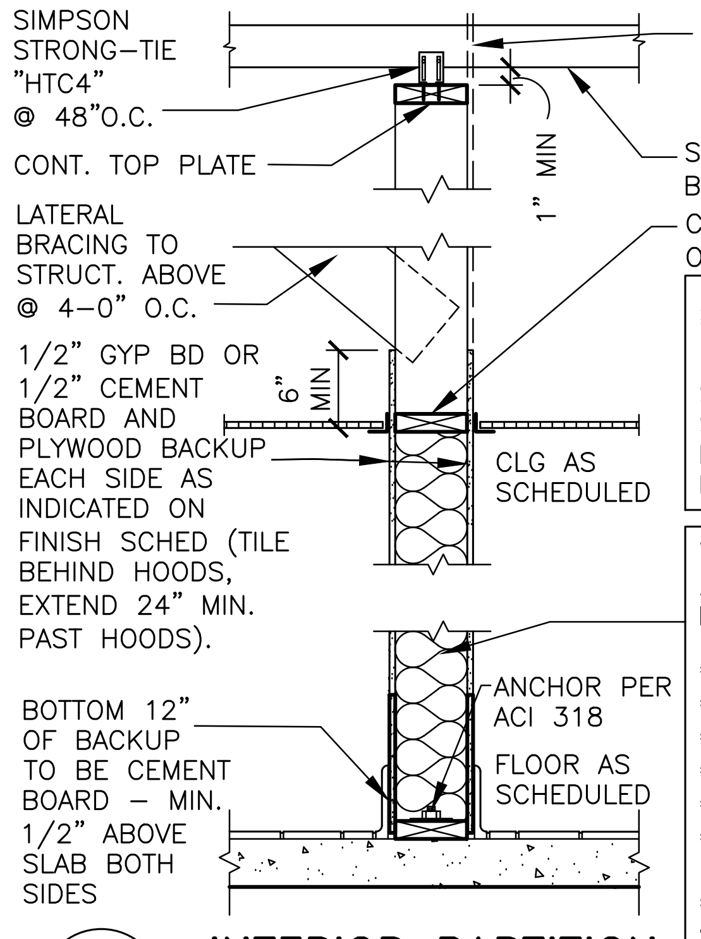
SHEET NO.
024-0281.00.0
R1.5
SIGNAGE PLAN


96'-1" FOUNDATION TO FOUNDATION
53'-0¾"
53'-7"
9'-8½"
15'-7¼"
17'-5"
40'-2¾" R.O.
30'-0¼"
27'-2"
9'-0"
EQUAL
FREEZER 111
COOLER 110
SUPPORT 104
WOMEN'S 102
MEN'S 103
VESTIBULE 115
DINING 101
CUSTOMER SERVICE 100
J.C. 114
CREW ROOM 109
MGR'S AREA 108
COMP CLOSET 112
CREW ALCOVE 113
ORDER 107
KITCHEN 105
PRESENTER-1 106
PRESENTER-2 116
CO2 117
INCOMING WATER SERVICE METER AREA.
PROVIDE TILE BEHIND HOODS. EXTEND 24" MIN. PAST END OF EXHAUST HOODS.
METAL STUD WALL CONSTRUCTION EXTENT OF THIS WALL – SEE DETAIL 2/A1.0
1/2" CEMENT BOARD AT EACH SIDE. SEE FINISH SCHEDULE AND M3.0 FOR ADDITIONAL INFO. AND REQ'D. BLOCKING
6" METAL STUD EXTERIOR WALL CONST. AT THIS LOCATION. SEE STRUCT. FOR ADDITIONAL INFO.
PROVIDE MOP HOLDER & 12"L x12"W SHELF FOR CLEANING DETERGENT STORAGE.
WALL MOUNTED COAT HOOKS, SEE A4.0. TWO UNITS STACKED
WALL MOUNTED COAT HOOKS, SEE A4.0
48"X52" CLEAR FLOOR AREA
54"X60" CLEAR FLOOR AREA
52"X60" CLEAR FLOOR AREA
CENTER ON MULLION
QUARRY TILE
FILED STL. PIPE BOLLARD SEE DETAIL 1/A6.1
GUARDRAIL – SEE 8/A6.0 – SEE SITE PLAN FOR EXACT LOCATION AND LENGTH
44'-5" FOUNDATION TO FOUNDATION
29'-0½"
23'-5"
15'-10"
18'-6"
32'-6"
21'-7"
25'-9"
46'-9¾"
14'-11"
14'-2"
19'-6"
93'-9¾"
95'-9¾"
35'-8"
24'-3"
11'-5¾"
4'-0" R.O.
HOLD
NORTH
1 2 3 4 5 6
A B C C.2 C.9 D

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


(2) LAYER OF CEMENT BOARD
(1) LAYER OF PLYWOOD
TILE BEHIND HOODS AND EXTEND 24" MIN. PAST END OF EXHAUST HOOD
STUD FRAMING
2X6 WOOD STUDS
5 1/2" METAL STUDS
EXTERIOR WALL ASSEMBLY 1 (SEE ASSEMBLY NOTES A5.0)
EXTERIOR GYP. BOARD AT METAL STUD FRAMING

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


SIMPSON STRONG-TIE "HTC4" @ 48"O.C.
CONT. TOP PLATE
LATERAL BRACING TO STRUCT. ABOVE @ 4-0" O.C.
1/2" GYP BD OR 1/2" CEMENT BOARD AND PLYWOOD BACKUP EACH SIDE AS INDICATED ON FINISH SCHED (TILE BEHIND HOODS, EXTEND 24" MIN. PAST HOODS).
BOTTOM 12" OF BACKUP TO BE CEMENT BOARD – MIN. 1/2" ABOVE SLAB BOTH SIDES
EXTEND GYP. BOARD ON ONE SIDE TO UNDERSIDE OF ROOF FOR DRAFTSTOP WHERE SHOWN ON A1.2 PLAN BY
STRUCT. MEMBER OR STUD SPANNING BOTTOM CHORD @ 4'-0" O.C.
CONT. 2X FIRESTOPPING AT EXTENT OF BACKUP (TYP)
1" MIN
6" MIN
CLG AS SCHEDULED
ANCHOR PER ACI 318
FLOOR AS SCHEDULED

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

METAL STUD PARTITION TYPE:
"MA" = 3 5/8"

SPACING: 16" O.C.
STUD GUAGE:
LOAD BEARING: 18
NON-LOAD BEARING: 20

WOOD STUD PARTITION TYPE:
ALL PARTITIONS TYPE 'A' UNLESS NOTED OTHERWISE

"A" = 2x4
"A1"= 2x4 W/ SOUND BATT INS.
"B" = 2x6
"B1"= 2x6 W/ SOUND BATT INS.
"C" = 2x8
"C1"= 2x8 W/ SOUND BATT INS.

*EQUIVALENT LIGHT GAUGE METAL STUDS ALSO ACCEPTABLE

STUD SPACING: 16" O.C.

## KEY NOTES

| | |
|---|---|
| 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<br>SEE A3.1 AND A6.1 FOR FINISH INFORMATION |
| CT B | WALL TILE: CROSSVILLE – COLOR BY NUMBERS<br>COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND<br>GROUT: MAPEI SILVER 27 – JOINT TO BE 1/16" MAX.<br>USE THIS TILE WHEN HIGH LRV IS REQUIRED<br>COORDINATE WITH McDONALD'S AREA CONSTRUCTION MANAGER |
| DO | DOWNSPOUT CONNECTED TO CANOPY SYSTEM. SEE ELEVATIONS. COORDINATE CONNECTION WITH CIVIL. |
| 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.<br>DOOR 3: 12"x48"<br>DOOR 3A/9B: 24"x60"<br>DOOR 9A COOLER ENTRANCE: 12"x36" |
| DS | DROPPED SOFFIT ABOVE – SEE REFLECTED CEILING PLAN |
| FB CO2 | CO2 FILL BOX (EQUIPMENT SCHEDULE ITEM 49.00) |
| FB BO | OPTIONAL BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18)<br>CONFIRM USE WITH MCDONALD'S AREA CONSTRUCTION MANAGER |
| FL | FLOOR LINE – CHANGE IN MATERIAL – SEE FINISH SCHEDULE |
| FW | LINE OF FROST WALL; SEE SECTIONS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION |
| LL 5'x5' | LEVEL LANDING @ EXT. DOOR W/ MAX. 2% RUNNING/CROSS SLOPE AWAY FROM BUILDING<br>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. |
| RL | ROOF ACCESS LADDER W/HATCH ABOVE SEE STRUCTURAL FRAMING PLAN FOR LOCATING DIMENSIONS |

## SYMBOL LEGEND

| | |
|---|---|
| Ⓐ | PARTITION TYPE TAG SEE 2/A1.0 |
| ▬ ▬ | DIAMOND PLATE PROTECTION |
| 7 | DOOR TAG – SEE DOOR SCHEDULE ON A6.0 |
| X | KEY NOTE |

## GENERAL NOTES

1. EXTERIOR DIMENSIONS ARE TO COLUMN REFERENCE LINES AND EXTERIOR FACE OF MASONRY UNLESS OTHERWISE NOTED. INTERIOR DIMENSIONS ARE TO FACE OF INTERIOR WALL BOARD
2. SEE 4/A5.0 FOR EXTERIOR WALL ASSEMBLY TYPES. SEE 2/A1.0 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 |
|---|---|---|---|
| – | – | | – |

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:
William C Sheppard
ARCHITECT
210 CENTRAL AVE., STE 3
HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:
**McDonald's USA, LLC**
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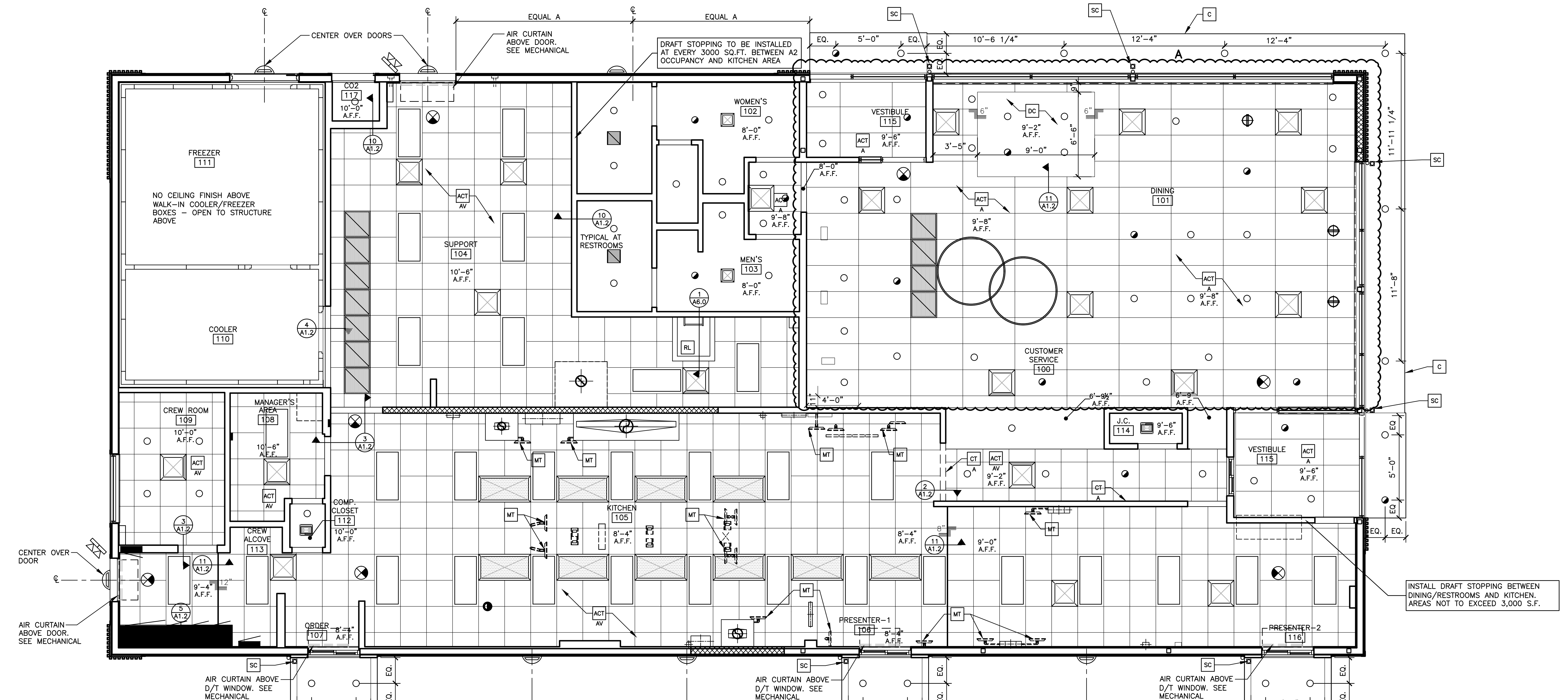
DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
A1.0
FLOOR PLAN



1
A1.2

## REFLECTED CEILING PLAN

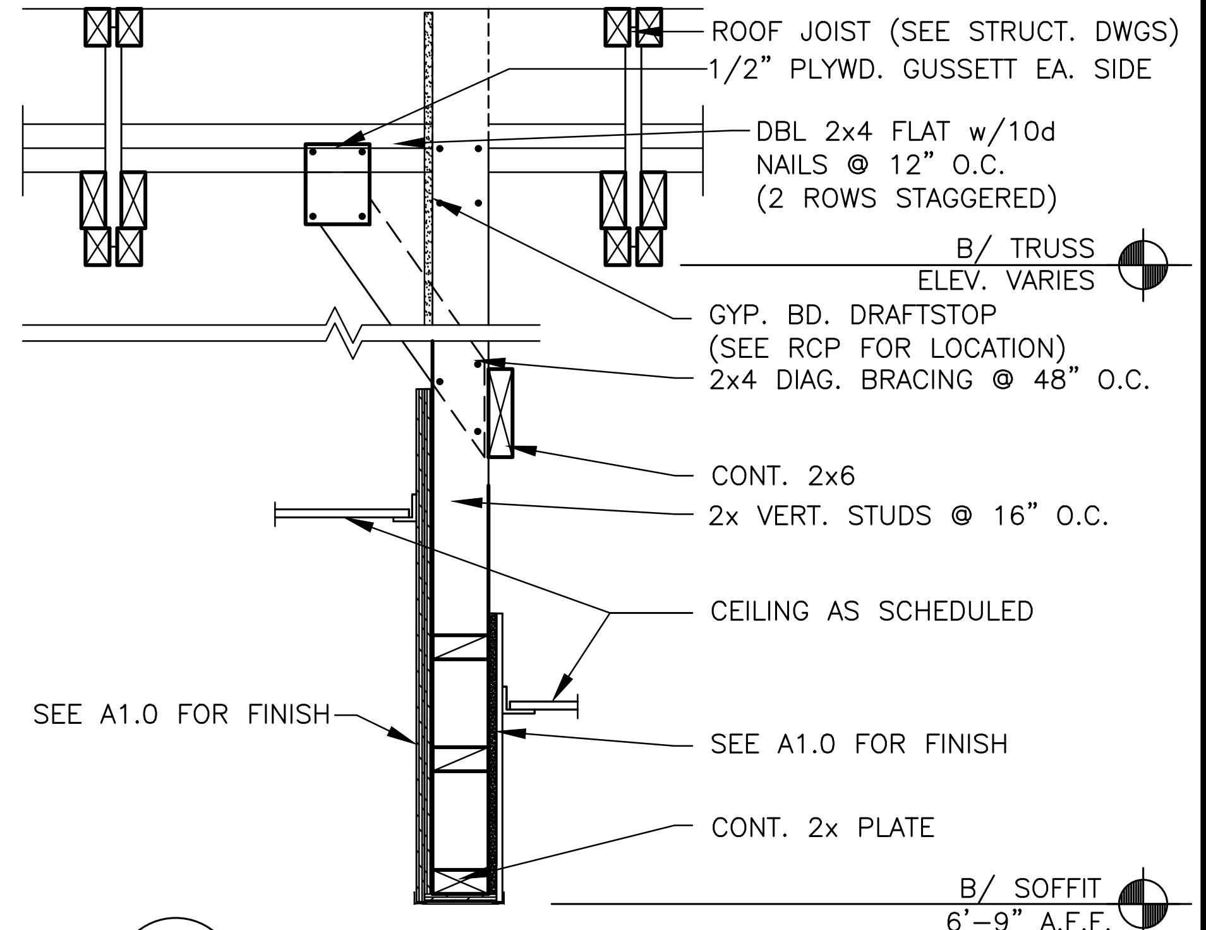
3/16"=1'-0"

## 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<br>COLOR: WHITE<br>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 |
| CT A | WALL FINISH: PER DECOR PORTFOLIO.<br>SEE A3.1 AND A6.1 FOR FINISH INFORMATION. |
| CT B | WALL TILE: CROSSVILLE – COLOR BY NUMBERS<br>COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND<br>GROUT: MAPEI SILVER 27 – JOINT TO BE 1/16" MAX.<br>USE THIS TILE WHEN HIGH LRV IS REQUIRED<br>COORDINATE WITH McDONALD'S AREA CONSTRUCTION MANAGER |
| DC | SUSPENDED DECORATIVE CEILING TREATMENT – SEE FINISH SCHEDULE |
| DM | DIGITAL MERCHANDISER |
| DS | DROPPED SOFFIT |
| DC–WH | BOTTOM TO ALIGN WITH GYP BD AT EXTERIOR WINDOW HEAD<br>MAY BE REPLACED BY ELEMENT BY DECOR SUPPLIER – CONFIRM WITH AREA CONSTRUCTION MANAGER |
| 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

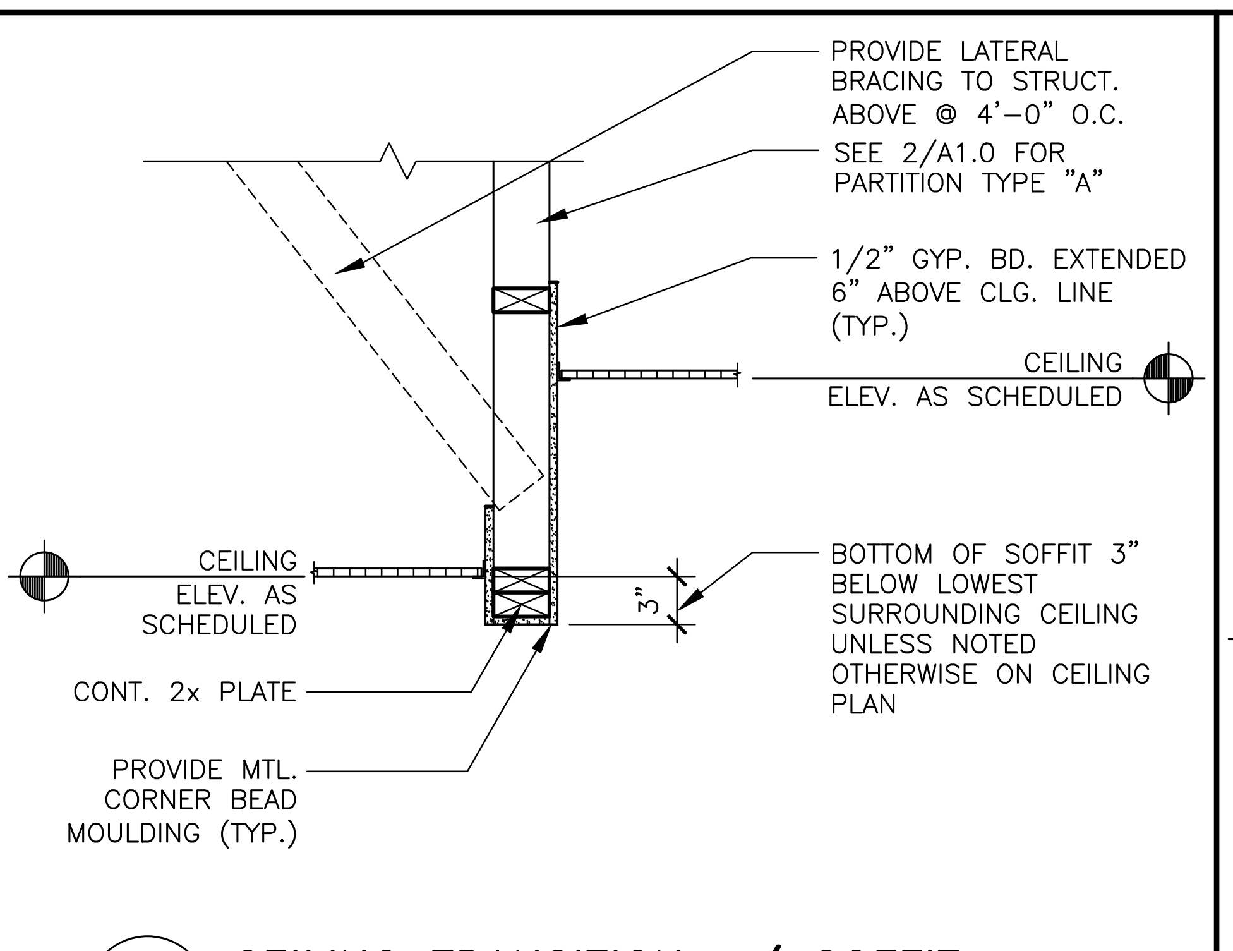
1. SEE SHT A6.1 FOR CEILING FINISHES.
2. SEE SHT A1.0 FOR MENU BOARD DROPPED SOFFIT LOCATION DIMENSIONS
3. GENERAL CONTRACTOR SHALL COORDINATE HVAC DIFFUSER LOCATION WITH DECOR & MECHANICAL PLANS AND REPORT ANY DISCREPANCIES TO ARCHITECT.
4. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR DIFFUSER AND LIGHTING INFORMATION.
5. PROVIDE USG V15 CEILING TILE RETENTION CLIPS IN ALL VESTIBULE AREAS


ROOF JOIST (SEE STRUCT. DWGS)
1/2" PLYWD. GUSSETT EA. SIDE
DBL 2x4 FLAT w/10d NAILS @ 12" O.C. (2 ROWS STAGGERED)
B/ TRUSS ELEV. VARIES
GYP. BD. DRAFTSTOP (SEE RCP FOR LOCATION)
2x4 DIAG. BRACING @ 48" O.C.
CONT. 2x6
2x VERT. STUDS @ 16" O.C.
CEILING AS SCHEDULED
SEE A1.0 FOR FINISH
SEE A1.0 FOR FINISH
CONT. 2x PLATE
B/ SOFFIT 6'-9" A.F.F.

2
A1.2

## VALANCE SECTION

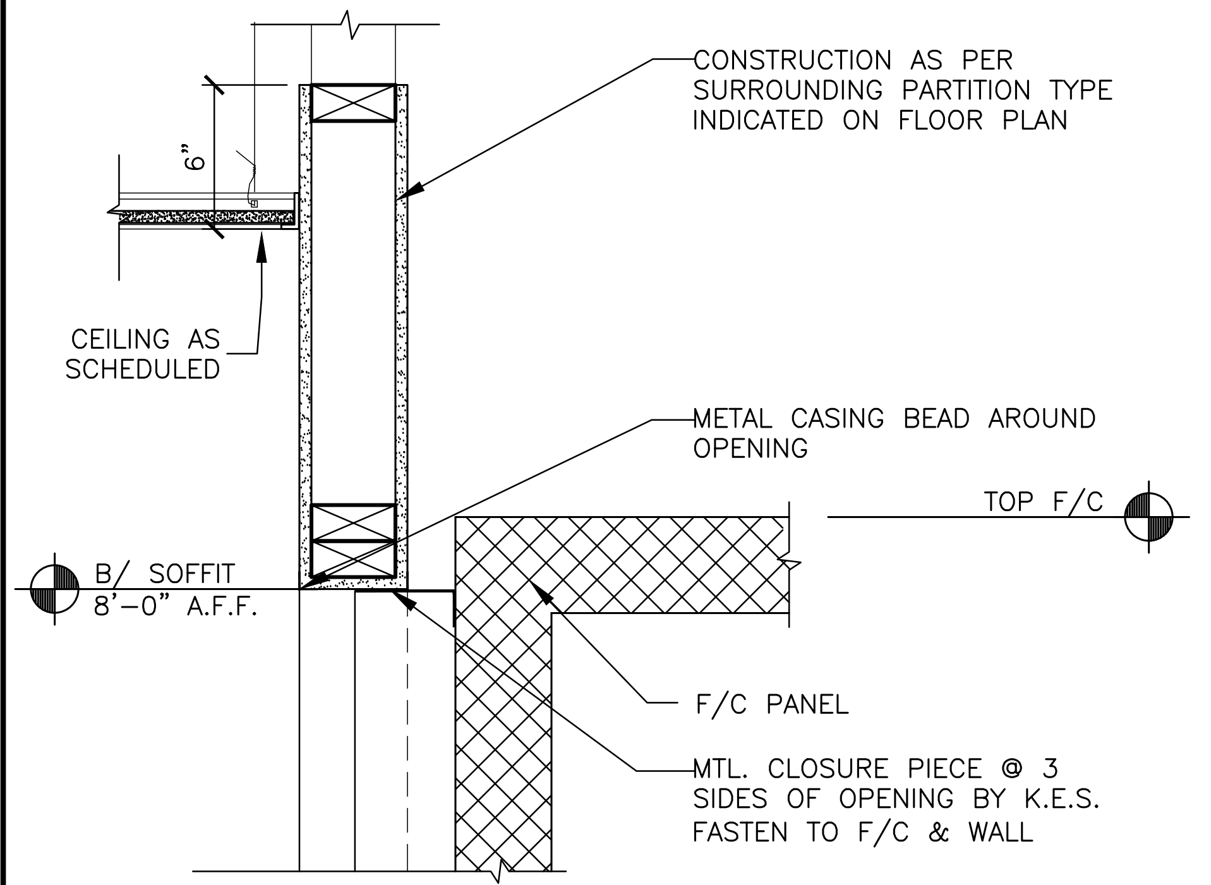
1"=1'-0"


PROVIDE LATERAL BRACING TO STRUCT. ABOVE @ 4'-0" O.C.
SEE 2/A1.0 FOR PARTITION TYPE "A"
1/2" GYP. BD. EXTENDED 6" ABOVE CLG. LINE (TYP.)
CEILING ELEV. AS SCHEDULED
CEILING ELEV. AS SCHEDULED
3"
BOTTOM OF SOFFIT 3" BELOW LOWEST SURROUNDING CEILING UNLESS NOTED OTHERWISE ON CEILING PLAN
CONT. 2x PLATE
PROVIDE MTL. CORNER BEAD MOULDING (TYP.)

3
A1.2

## CEILING TRANSITION w/ SOFFIT

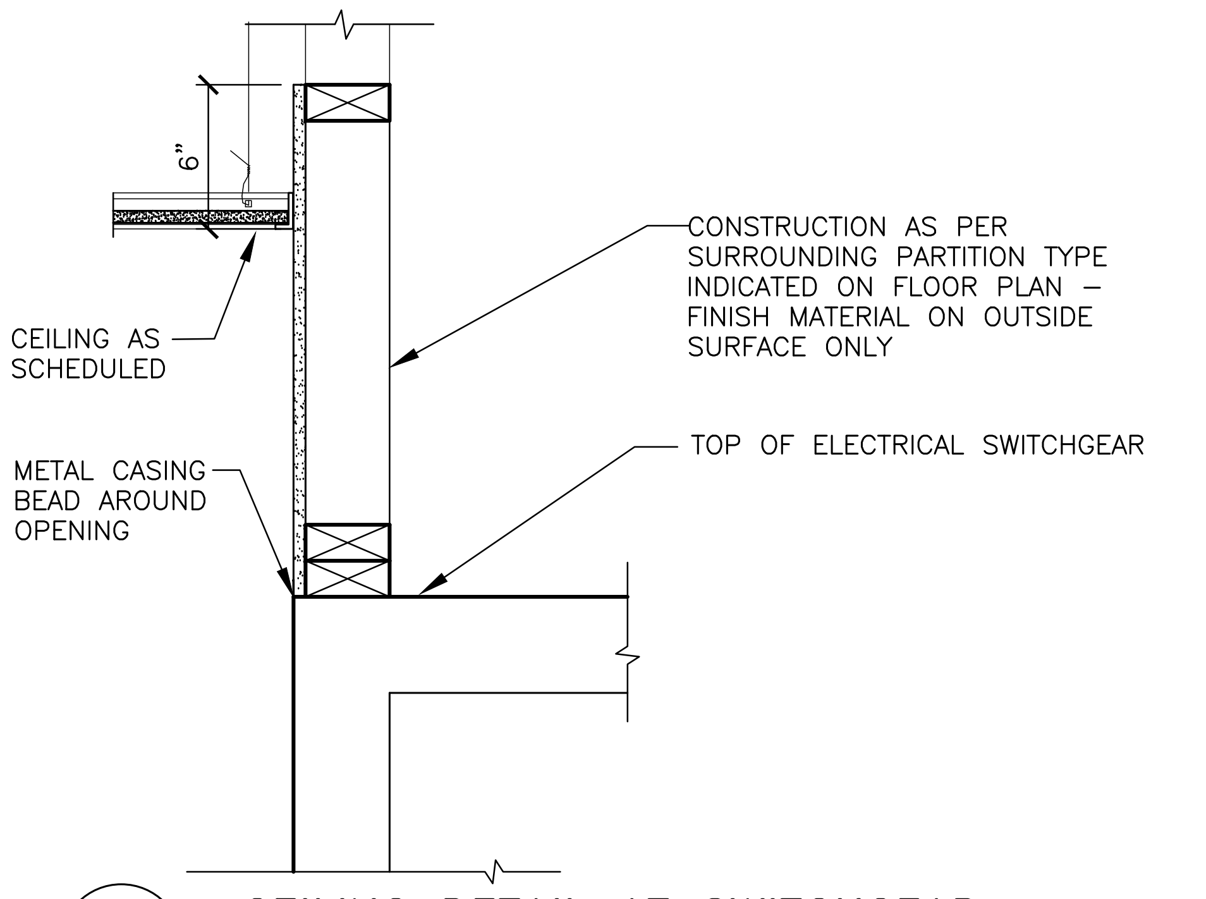
1"=1'-0"


6"
CONSTRUCTION AS PER SURROUNDING PARTITION TYPE INDICATED ON FLOOR PLAN
CEILING AS SCHEDULED
METAL CASING BEAD AROUND OPENING
TOP F/C
B/ SOFFIT 8'-0" A.F.F.
F/C PANEL
MTL. CLOSURE PIECE @ 3 SIDES OF OPENING BY K.E.S. FASTEN TO F/C & WALL

4
A1.2

## CEILING DETAIL AT COOLER

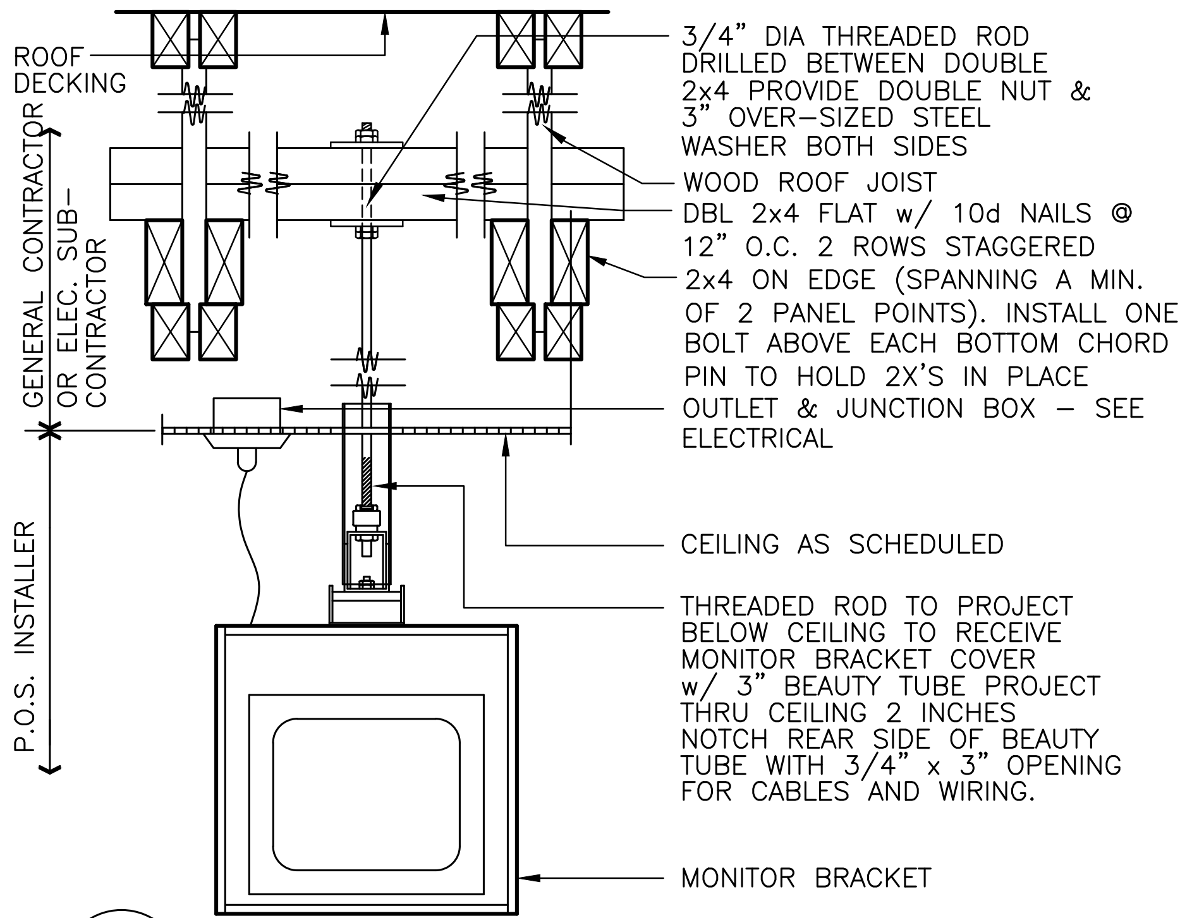
1 1/2"=1'-0"


6"
CONSTRUCTION AS PER SURROUNDING PARTITION TYPE INDICATED ON FLOOR PLAN – FINISH MATERIAL ON OUTSIDE SURFACE ONLY
CEILING AS SCHEDULED
METAL CASING BEAD AROUND OPENING
TOP OF ELECTRICAL SWITCHGEAR

5
A1.2

## CEILING DETAIL AT SWITCHGEAR

1 1/2"=1'-0"


ROOF DECKING
GENERAL CONTRACTOR OR ELEC. SUB-CONTRACTOR
P.O.S. INSTALLER
3/4" DIA THREADED ROD DRILLED BETWEEN DOUBLE 2x4 PROVIDE DOUBLE NUT & 3" OVER-SIZED STEEL WASHER BOTH SIDES
WOOD ROOF JOIST
DBL 2x4 FLAT w/ 10d NAILS @ 12" O.C. 2 ROWS STAGGERED
2x4 ON EDGE (SPANNING A MIN. OF 2 PANEL POINTS). INSTALL ONE BOLT ABOVE EACH BOTTOM CHORD PIN TO HOLD 2X'S IN PLACE
OUTLET & JUNCTION BOX – SEE ELECTRICAL
CEILING AS SCHEDULED
THREADED ROD TO PROJECT BELOW CEILING TO RECEIVE MONITOR BRACKET COVER w/ 3" BEAUTY TUBE PROJECT THRU CEILING 2 INCHES NOTCH REAR SIDE OF BEAUTY TUBE WITH 3/4" x 3" OPENING FOR CABLES AND WIRING.
MONITOR BRACKET

6
A1.2

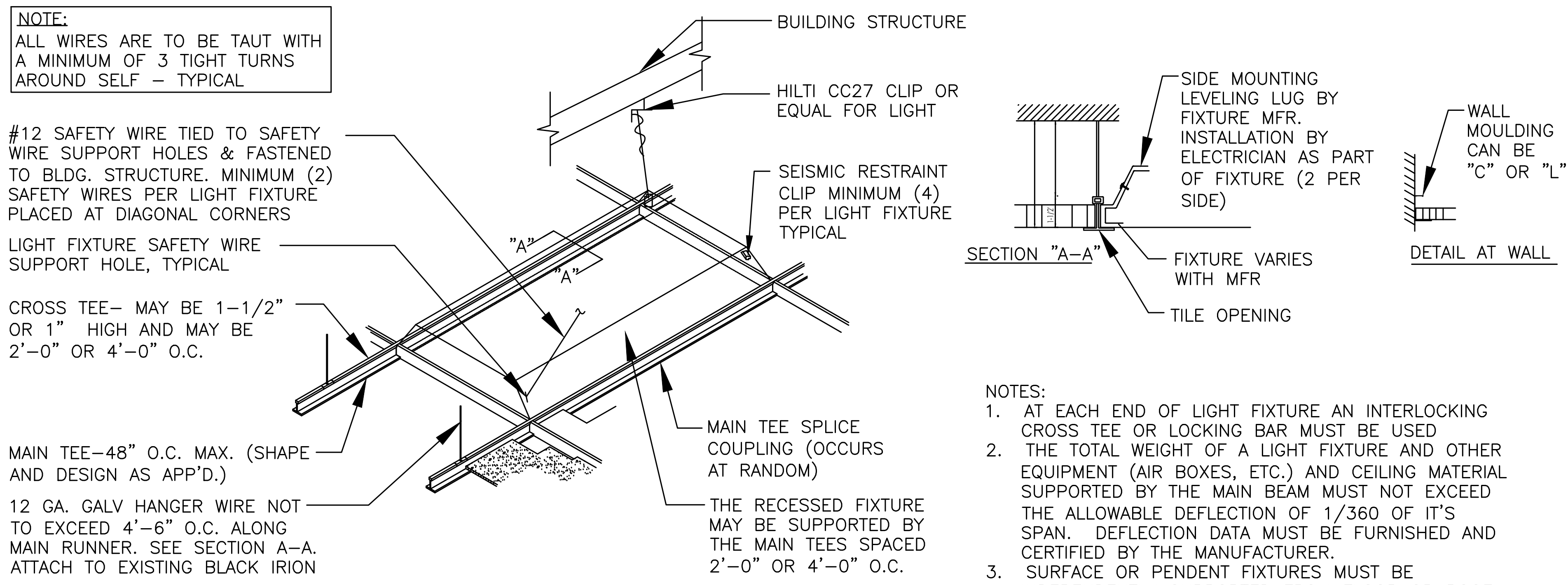
## MONITOR INSTALLATION DETAIL

N.T.S.

7
A1.2

## NOT USED

N.T.S.

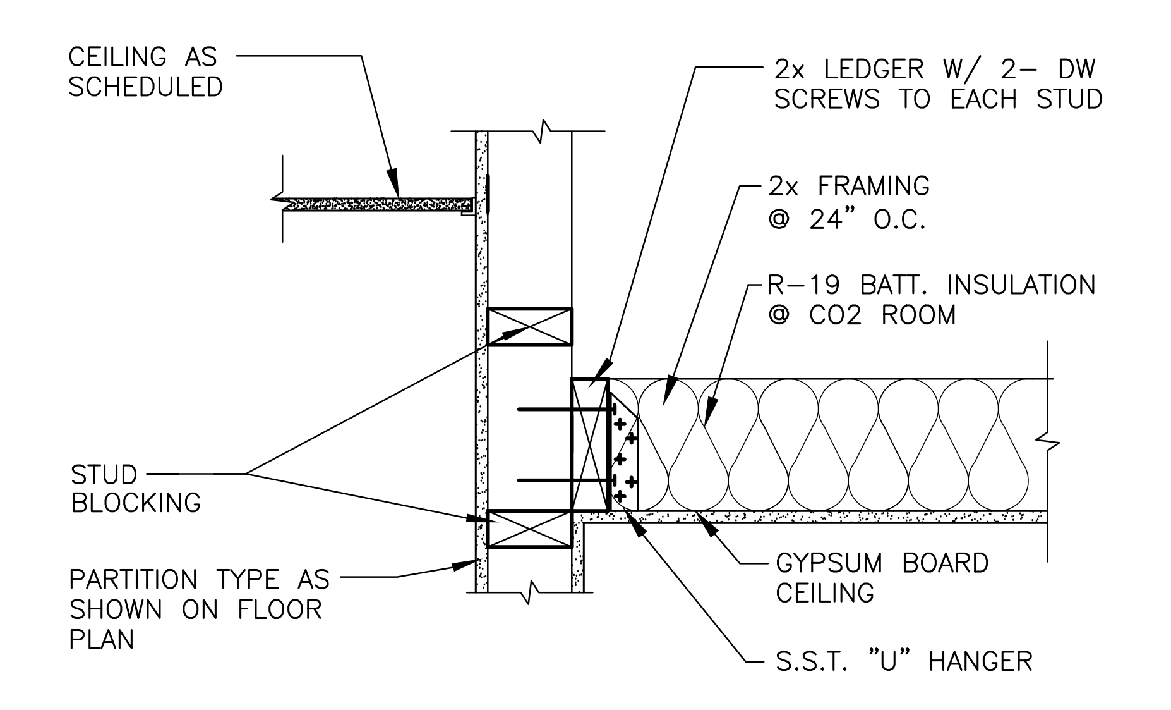

NOTE:
ALL WIRES ARE TO BE TAUT WITH A MINIMUM OF 3 TIGHT TURNS AROUND SELF – TYPICAL
BUILDING STRUCTURE
HILTI CC27 CLIP OR EQUAL FOR LIGHT
#12 SAFETY WIRE TIED TO SAFETY WIRE SUPPORT HOLES & FASTENED TO BLDG. STRUCTURE. MINIMUM (2) SAFETY WIRES PER LIGHT FIXTURE PLACED AT DIAGONAL CORNERS
SEISMIC RESTRAINT CLIP MINIMUM (4) PER LIGHT FIXTURE TYPICAL
LIGHT FIXTURE SAFETY WIRE SUPPORT HOLE, TYPICAL
"A"
"A"
CROSS TEE– MAY BE 1-1/2" OR 1" HIGH AND MAY BE 2'-0" OR 4'-0" O.C.
MAIN TEE-48" O.C. MAX. (SHAPE AND DESIGN AS APP'D.)
12 GA. GALV HANGER WIRE NOT TO EXCEED 4'-6" O.C. ALONG MAIN RUNNER. SEE SECTION A-A. ATTACH TO EXISTING BLACK IRION
MAIN TEE SPLICE COUPLING (OCCURS AT RANDOM)
THE RECESSED FIXTURE MAY BE SUPPORTED BY THE MAIN TEES SPACED 2'-0" OR 4'-0" O.C.
SIDE MOUNTING LEVELING LUG BY FIXTURE MFR. INSTALLATION BY ELECTRICIAN AS PART OF FIXTURE (2 PER SIDE)
SECTION "A-A"
FIXTURE VARIES WITH MFR
TILE OPENING
WALL MOULDING CAN BE "C" OR "L"
DETAIL AT WALL

NOTES:
1. AT EACH END OF LIGHT FIXTURE AN INTERLOCKING CROSS TEE OR LOCKING BAR MUST BE USED
2. THE TOTAL WEIGHT OF A LIGHT FIXTURE AND OTHER EQUIPMENT (AIR BOXES, ETC.) AND CEILING MATERIAL SUPPORTED BY THE MAIN BEAM MUST NOT EXCEED THE ALLOWABLE DEFLECTION OF 1/360 OF IT'S SPAN. DEFLECTION DATA MUST BE FURNISHED AND CERTIFIED BY THE MANUFACTURER.
3. SURFACE OR PENDENT FIXTURES MUST BE INDEPENDENTLY SUPPORTED FROM FLOOR OR ROOF CONSTRUCTION.

8
A1.2

## CEILING GRID & LIGHT SUPPORT DETAIL

N.T.S.

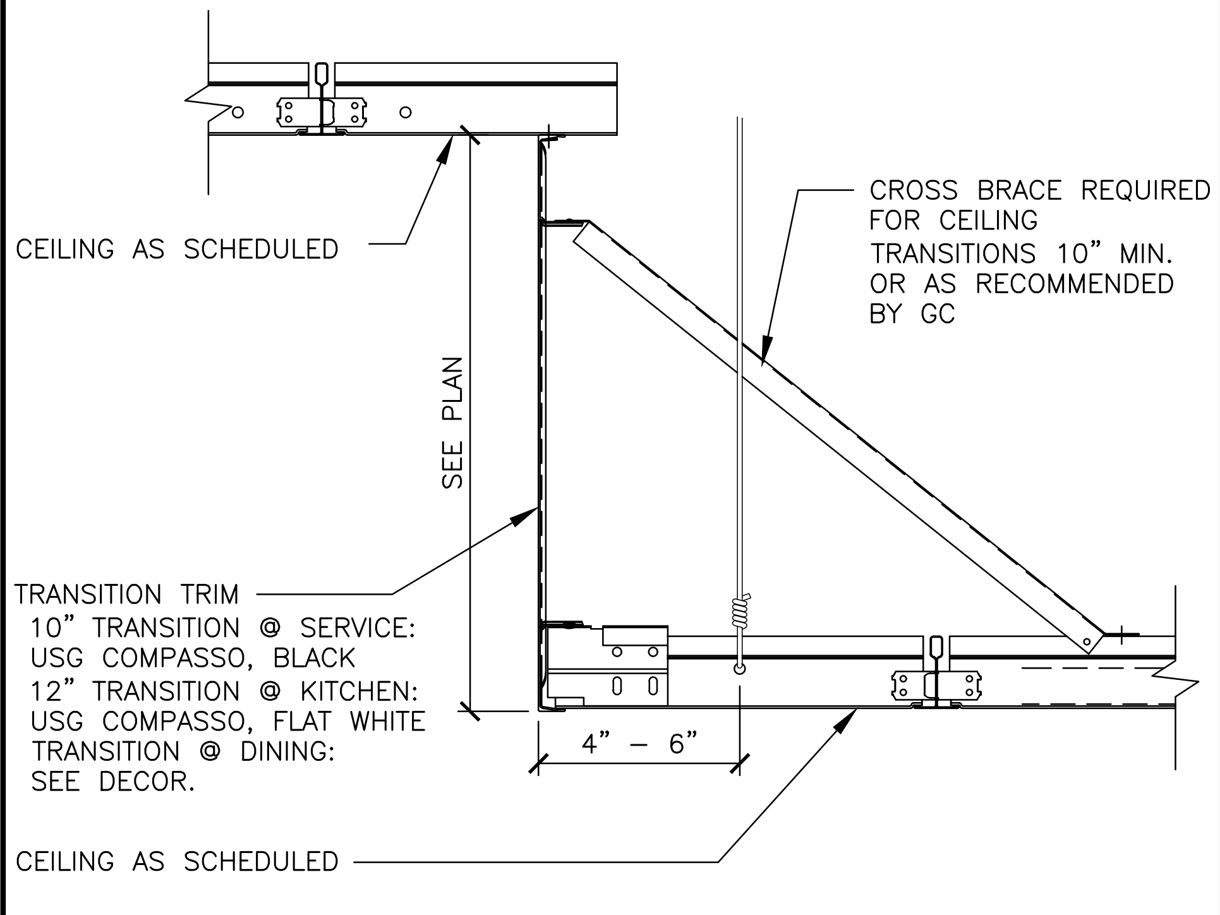

CEILING AS SCHEDULED
2x LEDGER W/ 2- DW SCREWS TO EACH STUD
2x FRAMING @ 24" O.C.
R-19 BATT. INSULATION @ CO2 ROOM
STUD BLOCKING
PARTITION TYPE AS SHOWN ON FLOOR PLAN
GYPSUM BOARD CEILING
S.S.T. "U" HANGER

10
A1.2

## GYP BD CEILING DETAIL

1 1/2"=1'-0"

A0610WB1


CEILING AS SCHEDULED
CROSS BRACE REQUIRED FOR CEILING TRANSITIONS 10" MIN. OR AS RECOMMENDED BY GC
SEE PLAN
TRANSITION TRIM
10" TRANSITION @ SERVICE: USG COMPASSO, BLACK
12" TRANSITION @ KITCHEN: USG COMPASSO, FLAT WHITE
TRANSITION @ DINING: SEE DECOR.
4" – 6"
CEILING AS SCHEDULED

11
A1.2

## ACOUSTIC CEILING TRANSITION

N.T.S.

COORDINATE w/ DECOR

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 02-03-26 | Changing Water Heater and RTUs to Gas, Decor Updates | SO |

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:
William C Sheppard
ARCHITECT
210 CENTRAL AVE., STE 3
HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:
**McDonald's USA, LLC**

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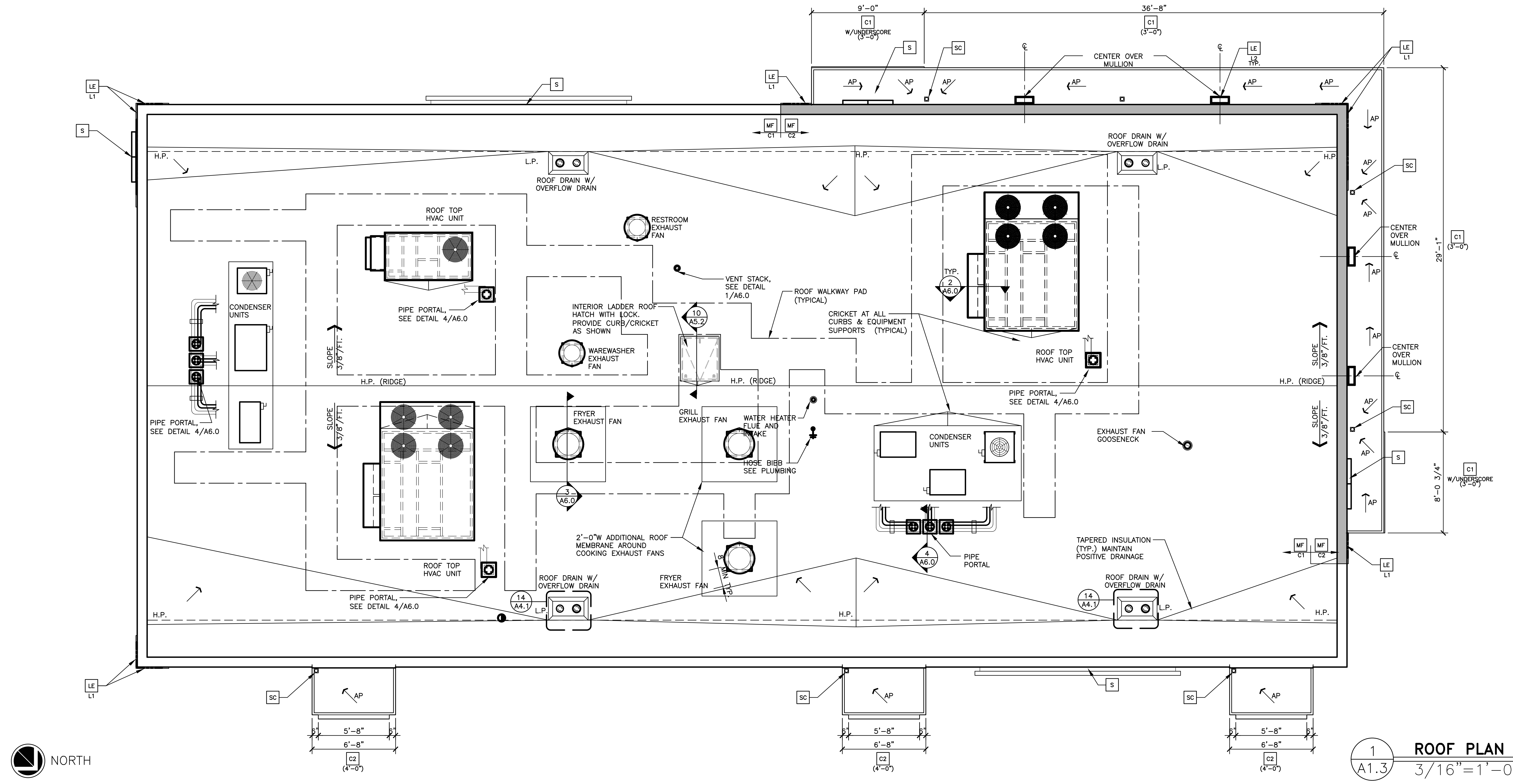
DRAWN BY SO
STD ISSUE DATE 2025 05
REVIEWED BY CS
DATE ISSUED 10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH
NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
A1.2
REFLECTED CLG. PLAN



## ROOF PLAN

1
A1.3

3/16"=1'-0"

## LEGEND

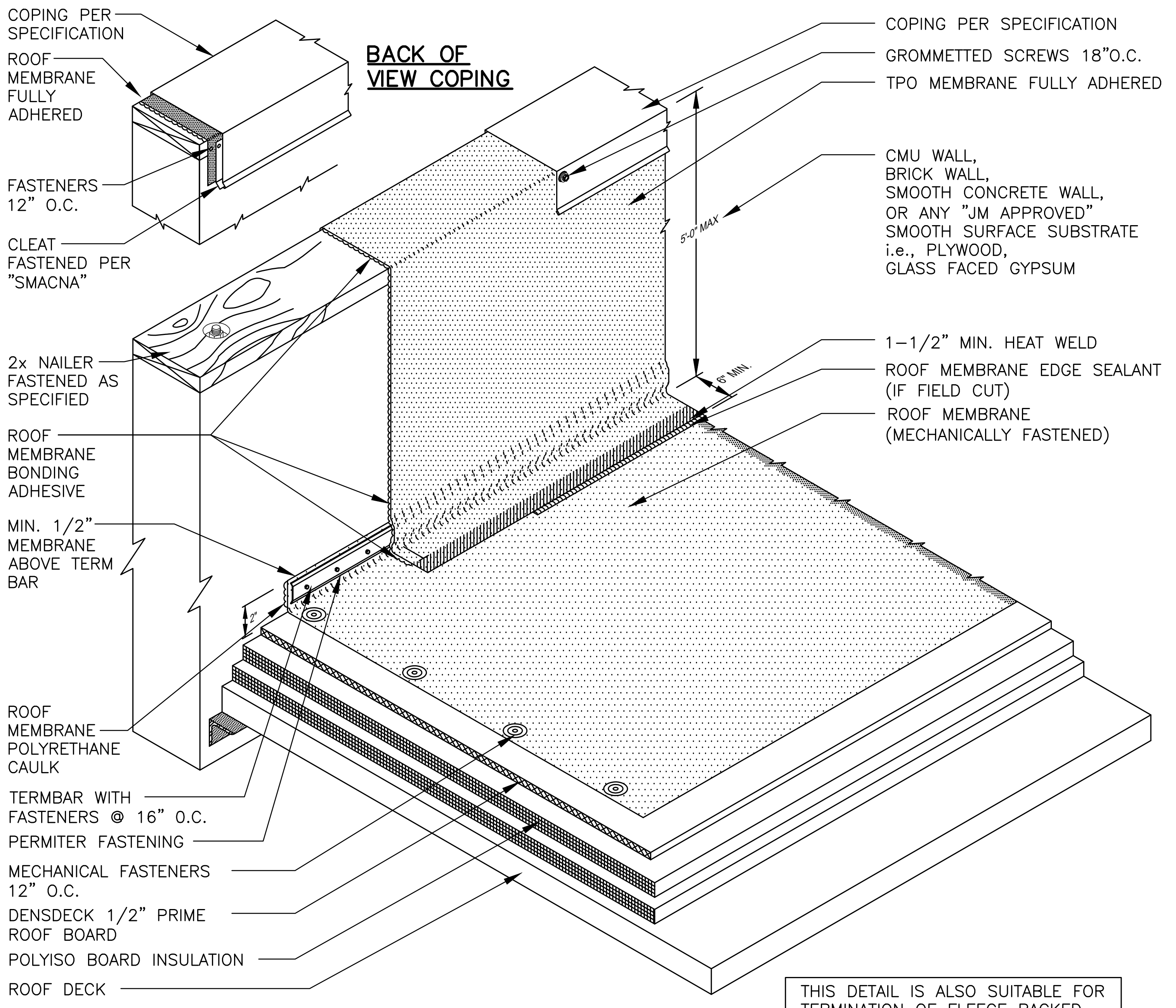
| | |
|---|---|
| L.P. | LOW POINT |
| H.P. | HIGH POINT |
| ← | DIRECTION OF DRAINAGE |
| ← AP | TRELLIS SYSTEM WITH ALUMINUM INFILL PANELS.<br>SLOPE TO EDGE @1/4"PER FT. |

## KEY NOTES

| | |
|---|---|
| C1 | ALUMINUM CANOPY SYSTEM (COLOR: SEE ELEVATIONS) |
| C2 | ALUMINUM CANOPY SYSTEM (COLOR: SEE ELEVATIONS) |
| LE | ACCENT LIGHTING – SEE ELEVATIONS & ELECTRICAL<br>L1—LED LIGHT:<br>L1 = SLIM LED (DOWN ONLY)<br>L2 = UP ONLY FLOOD FIXTURE |
| MF | METAL FASCIA<br>C1—COLOR:<br>C1 = SEE ELEVATIONS FOR COLOR<br>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.

## ROOFING SYSTEM

2
A1.3

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.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| – | – | | – |

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:

William C Sheppard
A R C H I T E C T
210 CENTRAL AVE., STE 3
HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:

**McDonald's USA, LLC**

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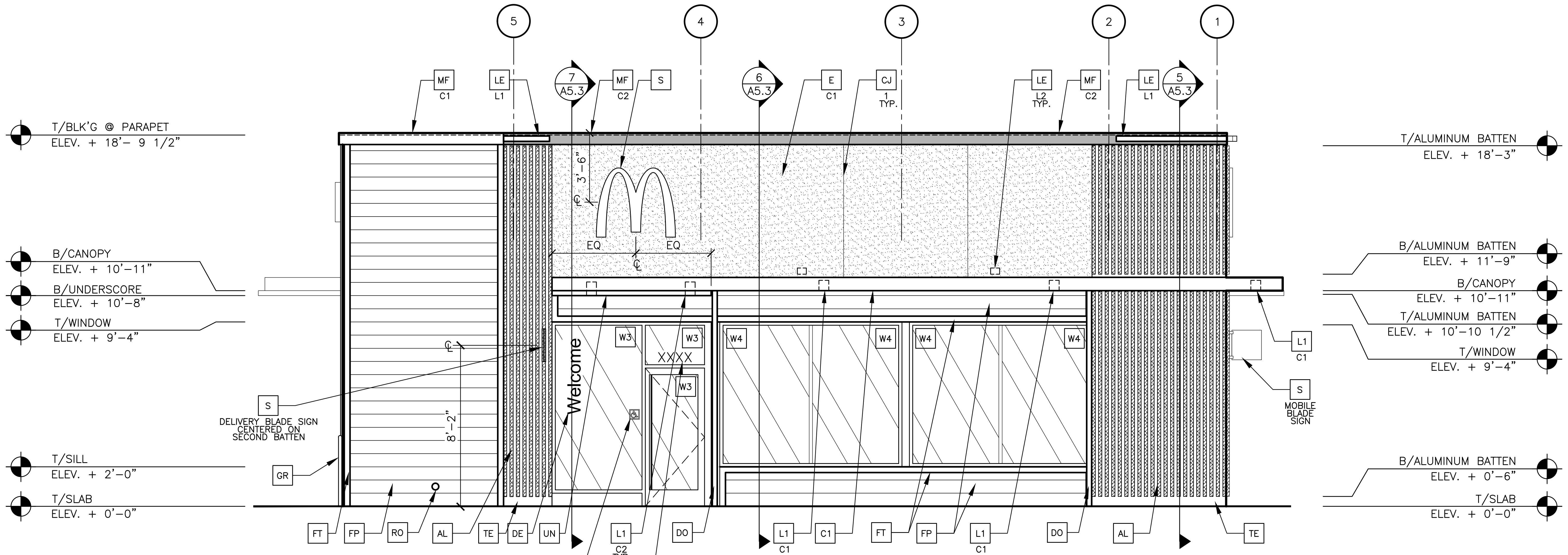
| | |
|---|---|
| DRAWN BY | SO |
| STD ISSUE DATE | 2025 05 |
| REVIEWED BY | CS |
| DATE ISSUED | 10-16-2025 |

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

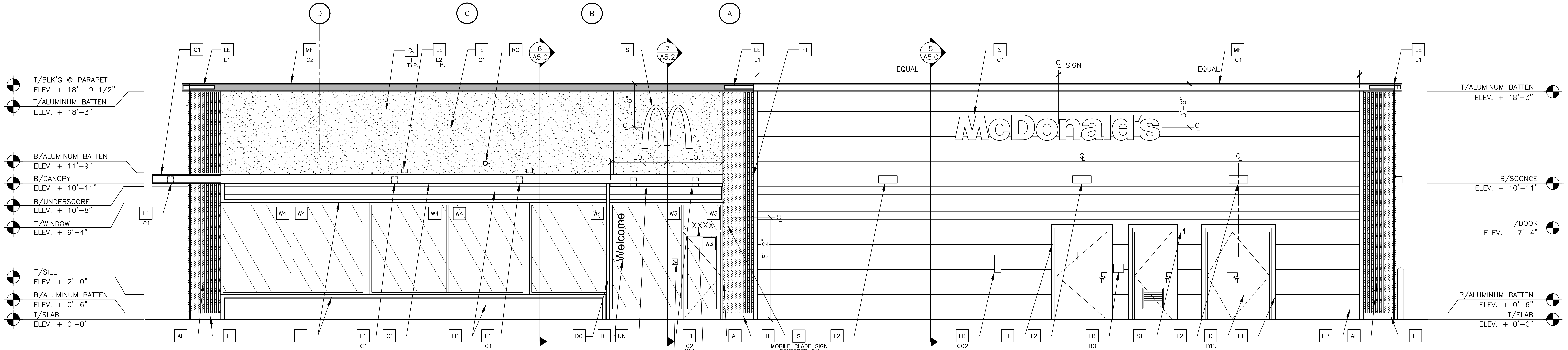
SHEET NO.
024-0281.00.0
# A1.3
ROOF PLAN



ACCESSIBILITY SIGNAGE SEE
GEN NOTE #6 ON A1.0

BUILDING ADDRESS 6"H. CHARACTERS
AND 3/4" STROKE FONT: AKZIDENZ
GROTESK PRO BOLD

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



BUILDING ADDRESS 6"H.
CHARACTERS AND 3/4" STROKE
FONT: AKZIDENZ GROTESK PRO
BOLD

ACCESSIBILITY SIGNAGE SEE
GEN NOTE #6 ON A1.0

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

## KEY NOTES:

AL 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

CJ CONTROL JOINT
1 —TYPE: 1 = EIFS

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

E EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
C1—COLOR:
C1 = "IRON ORE" SW 7069 BY SHERWIN WILLIAMS

EJ EXPANSION JOINT, SEE DETAIL 7/A4.1

FB
C02— CO2 = BULK CO2 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
PAINT: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS

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 DRIVE-THRU WINDOW BY READY ACCESS
MODEL: 600 SERIES, 36" SERVICE HEIGHT WITH TRANSOM, MANUAL OPEN; ELECTRONIC RELEASE
XX COLOR: DEEP BRONZE
SLIDE DIRECTION: RL = RIGHT TO LEFT
LR = LEFT TO RIGHT

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

STATE OF MISSOURI
WILLIAM SHEPPARD
NUMBER A-2024044882
ARCHITECT
11-14-2025

PREPARED BY:
William C Sheppard
ARCHITECT
210 CENTRAL AVE., STE 3
HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:
McDonald's USA, LLC

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4597 - WOOD/WOOD
DESCRIPTION
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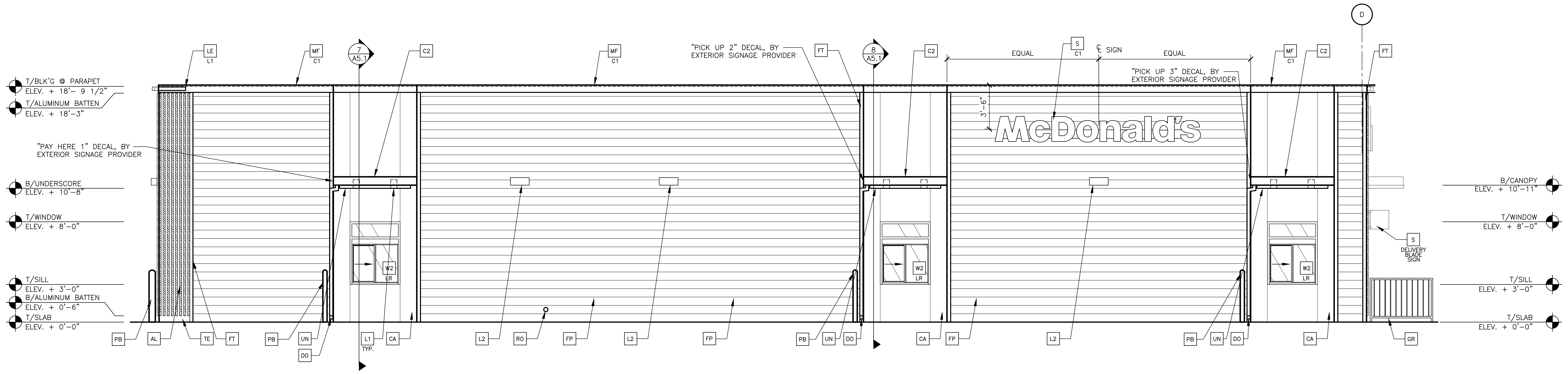
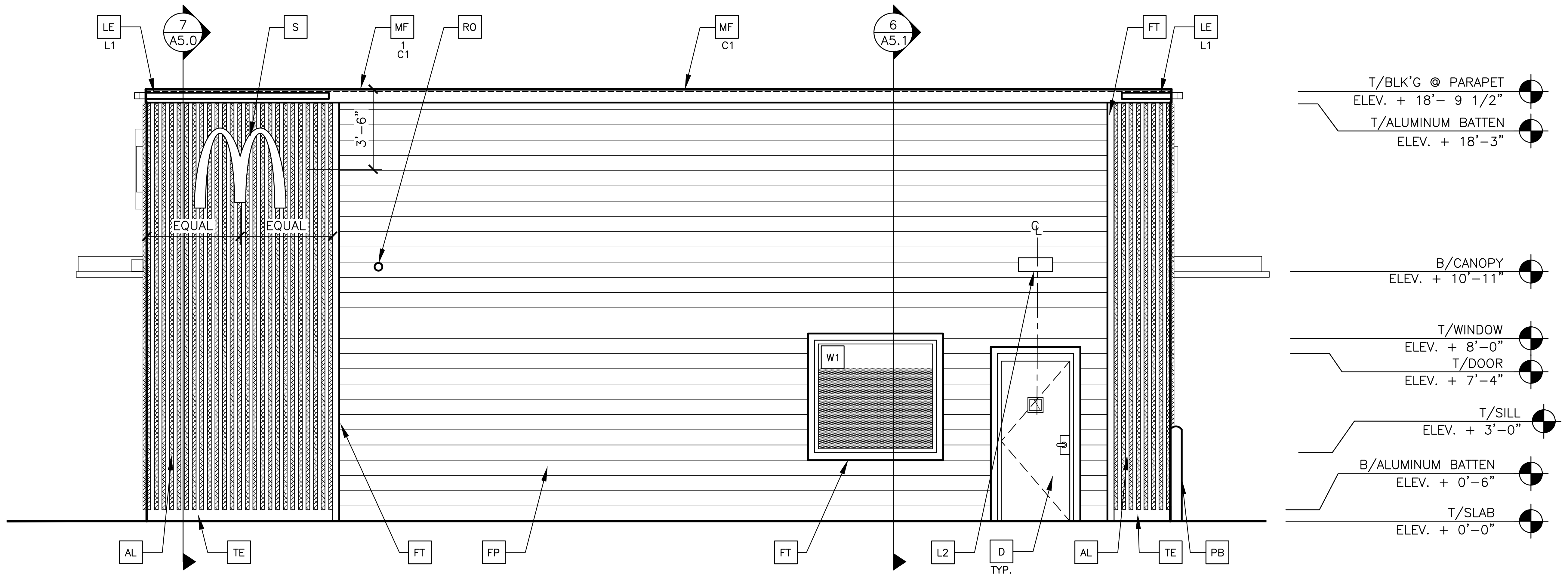
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH
NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
A2.0
ELEVATIONS



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



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

## KEY NOTES:

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COLOR: WOOD GRAIN, BACKRAIL UNFINISHED, ENDCAP PAINTED TO MATCH
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PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS

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EJ EXPANSION JOINT, SEE DETAIL 7/A4.1

FB
C02 — C02 = BULK C02 FILL BOX (EQPM SCHEDULE ITEM 49.00)
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L1 RECESSED DOWN LIGHT FIXTURE - SEE ELECTRICAL
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SEE SHEET A6.0

W2 DRIVE-THRU WINDOW BY READY ACCESS
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COLOR: DEEP BRONZE
SLIDE DIRECTION: RL = RIGHT TO LEFT
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WILLIAM SHEPPARD
A-2024044882
11-14-2025

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WOOD TRUSS ROOF FRAMING
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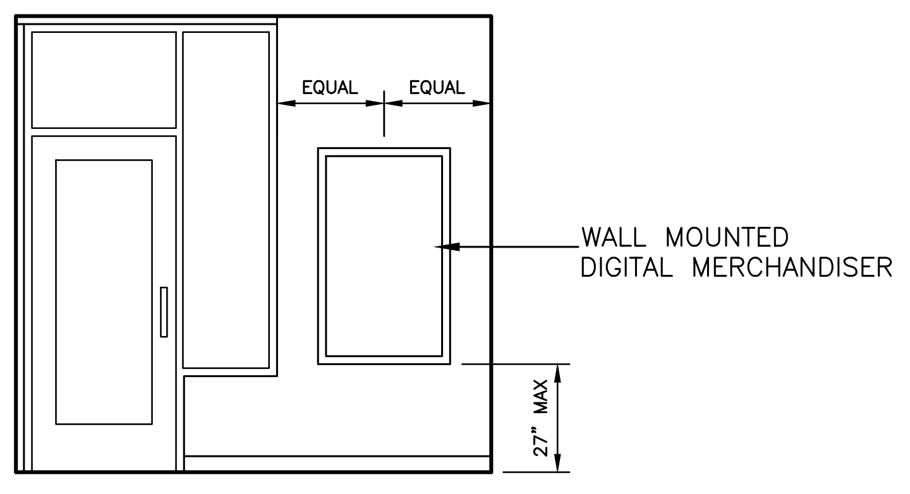
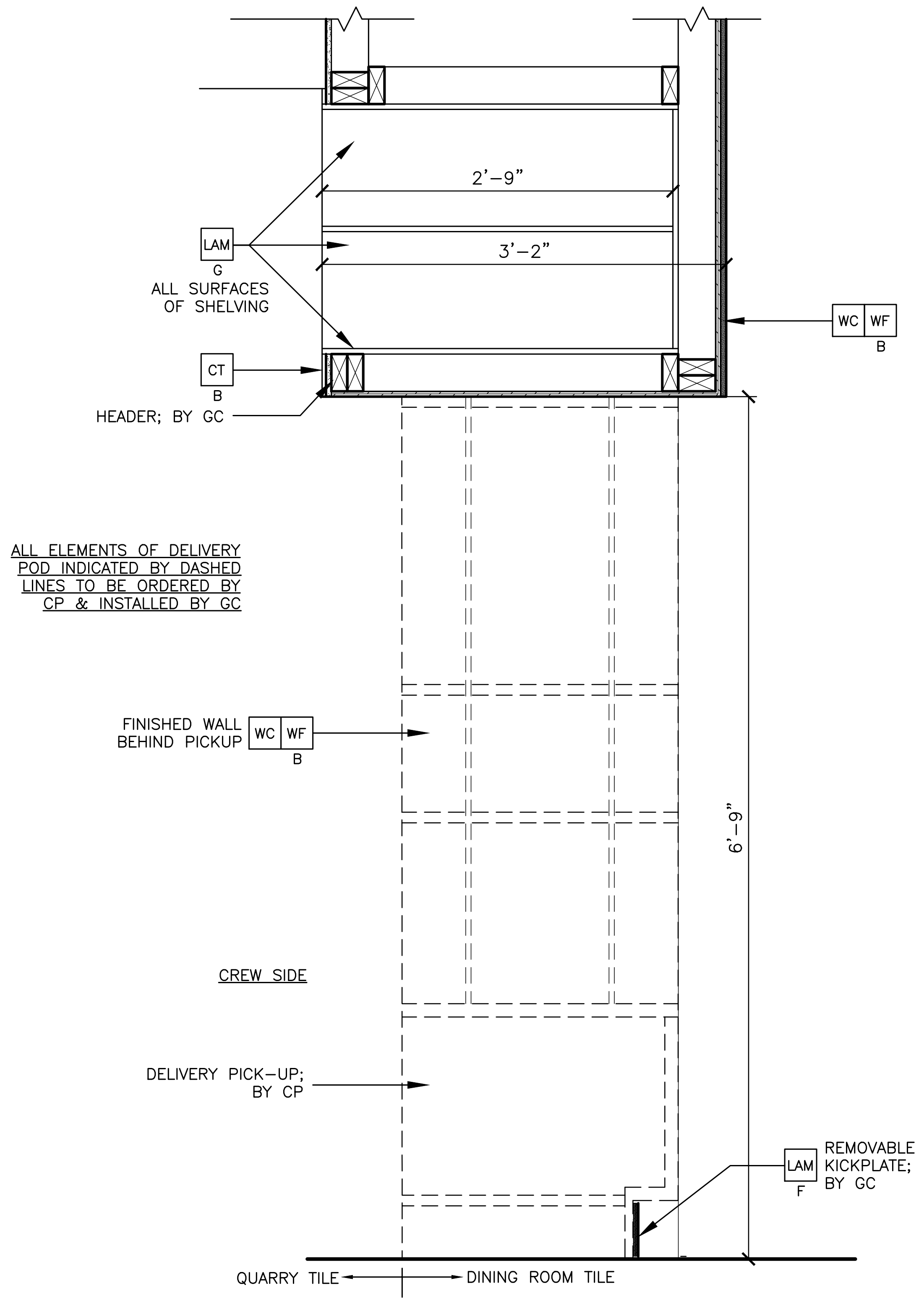


## 9 A3.1 NONDRIVE-THRU VESTIBULE ELEVATION
1/4" = 1'-0"



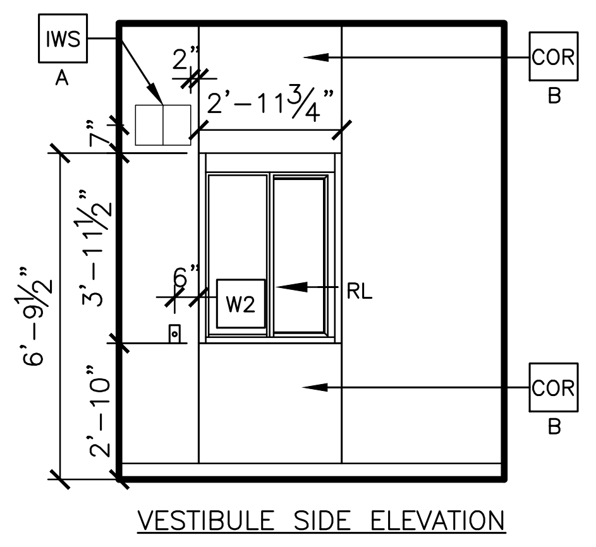
## 8 A3.1 SECTION @ DELIVERY POD
1" = 1'-0"

OPTIONAL LATE NIGHT WINDOW,
FOR HIGH DELIVERY RESTAURANTS

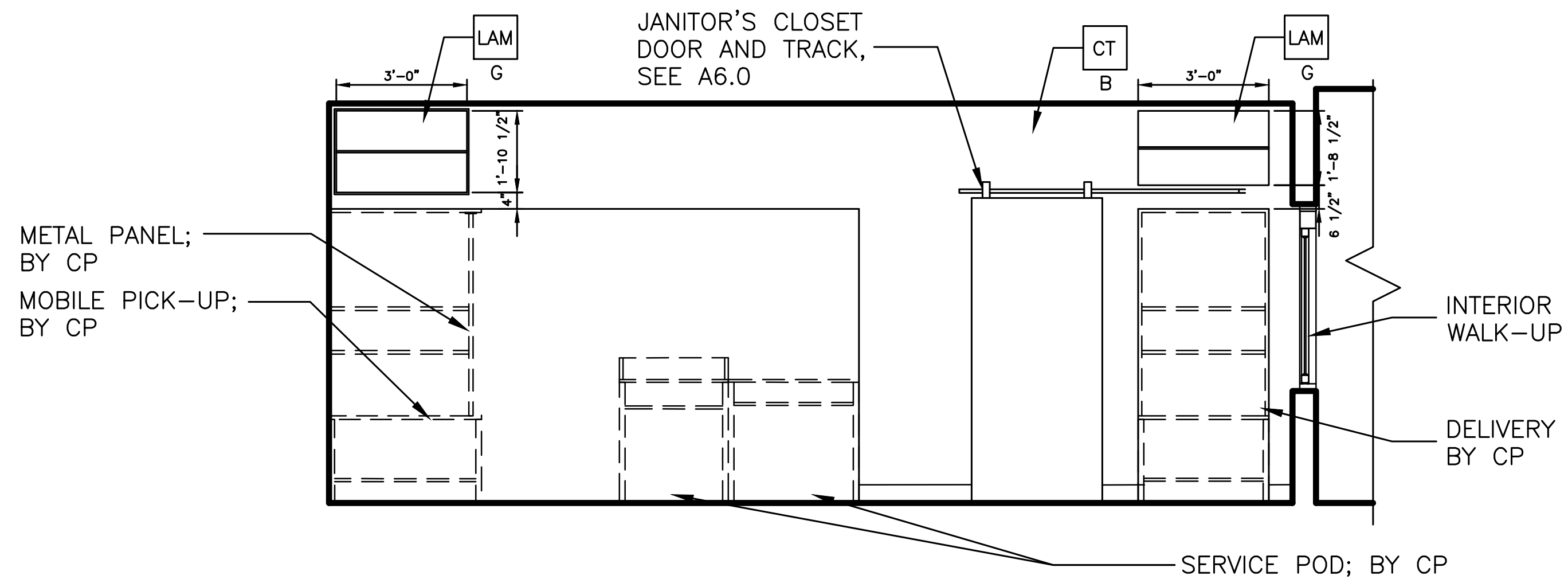
W1 STOREFRONT WINDOW ASSEMBLY
– TEMPERED GLASS
COLOR: DARK BRONZE

W2 LATE NIGHT WINDOW
COLOR: DARK BRONZE

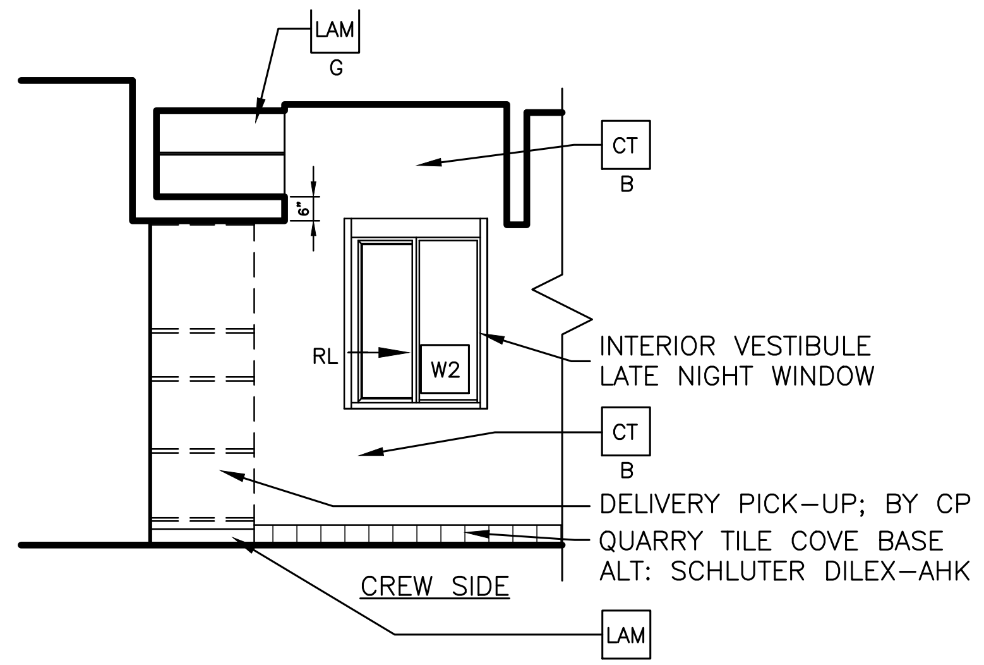
PICK-UP WINDOW SPECIFICATION
MODEL: READY ACCESS 275 SERIES
FRAME SIZE – 35.75"W x
47.5"H x 4"D
SERVICE OPENING –
13.5"W x 39"H
MANUAL OPEN/SELF CLOSE



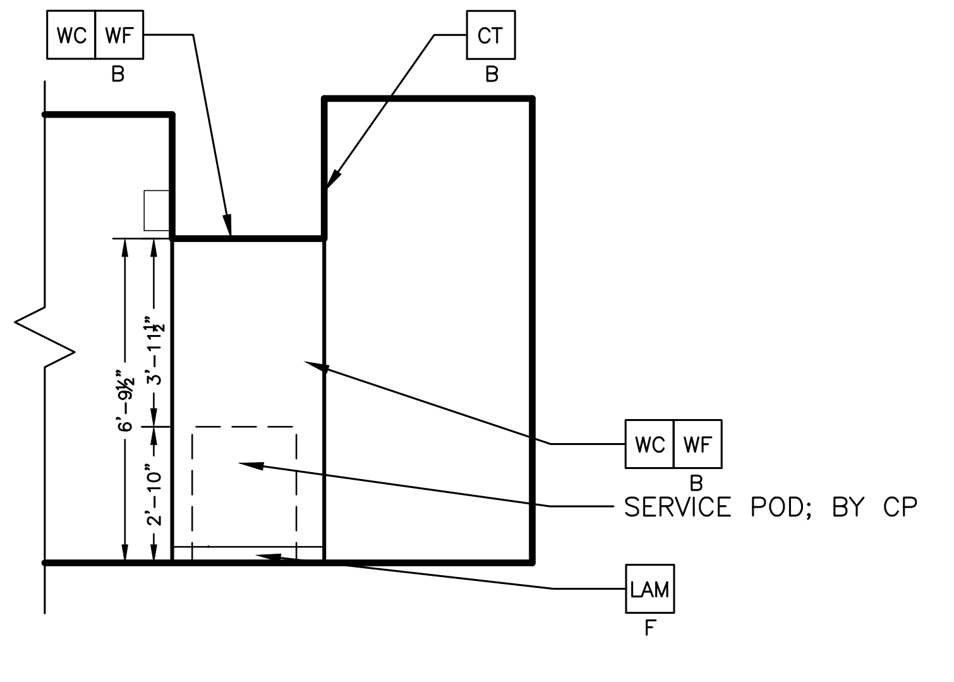
## 7 A3.1 LATE NIGHT WINDOW – VESTIBULE SIDE
1/4" = 1'-0"



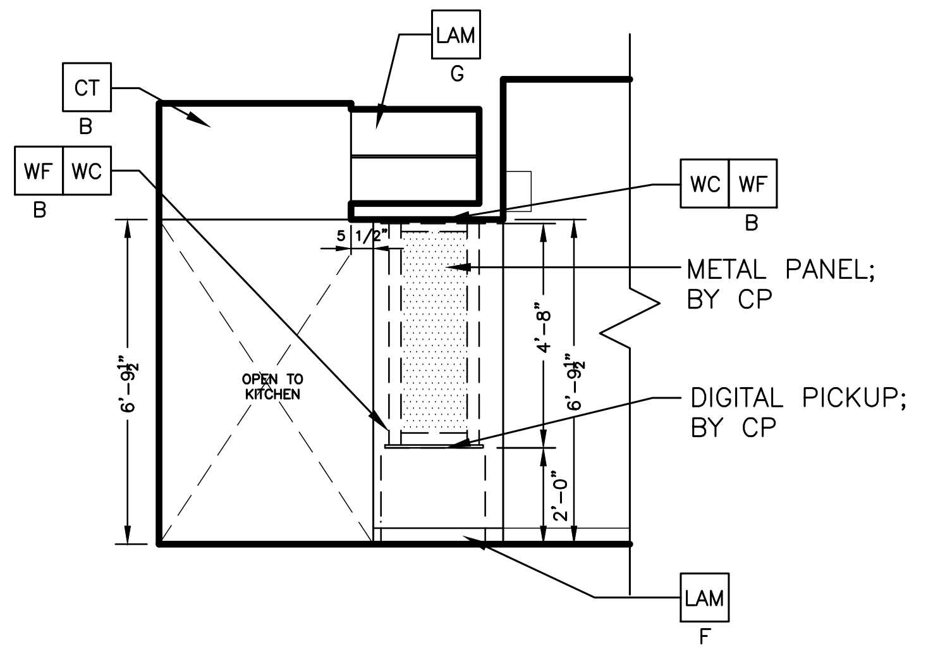
## 6 A3.1 SERVICE AREA ELEVATION – CREW SIDE
1/4" = 1'-0"



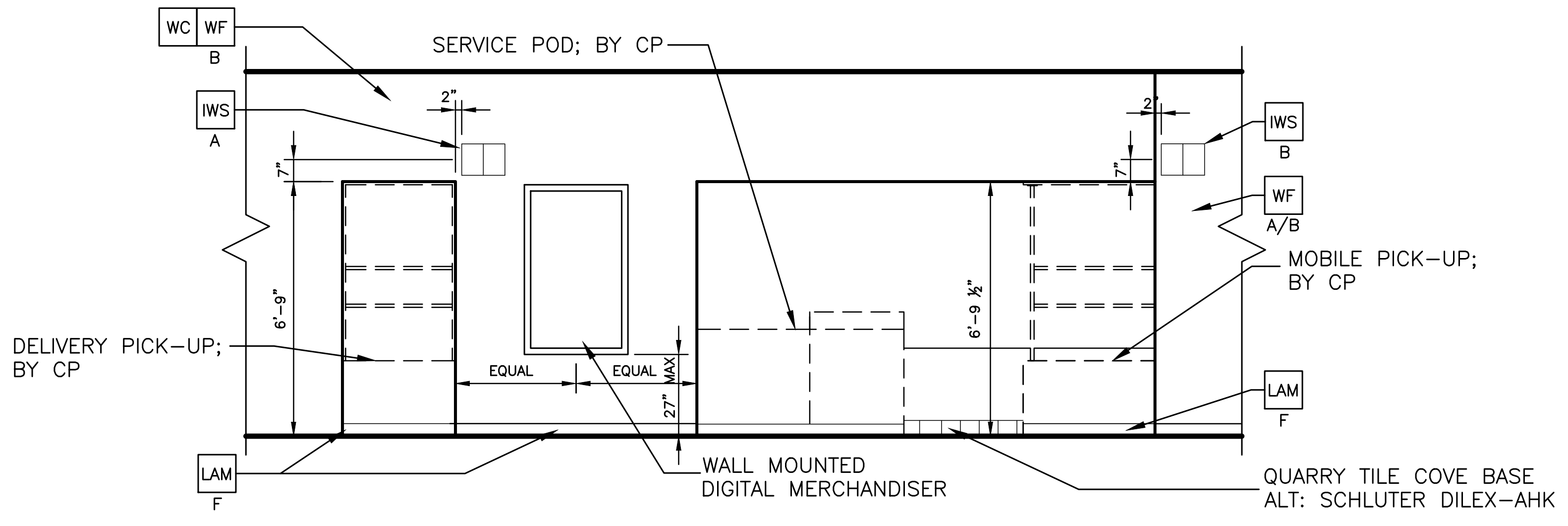
## 5 A3.1 LATE NIGHT WINDOW – CREW SIDE
1/4" = 1'-0"



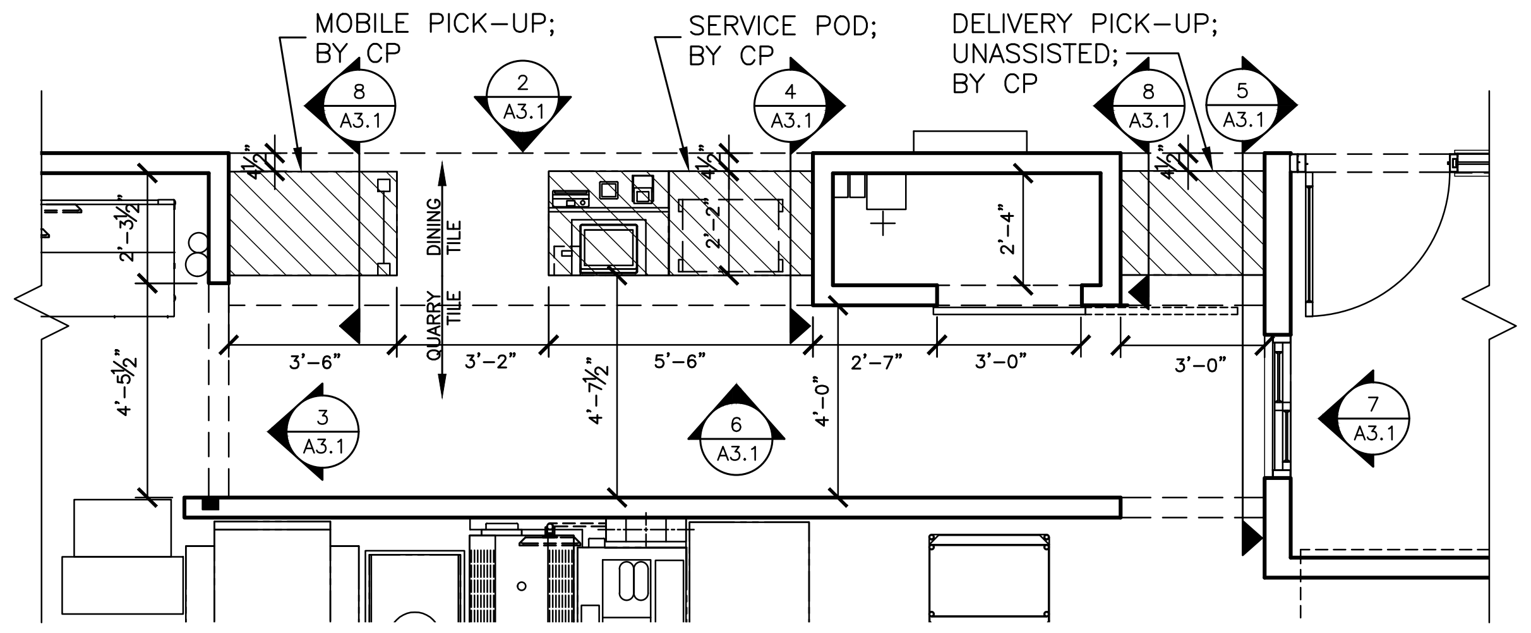
## 4 A3.1 SERVICE AREA ELEVATION
1/4" = 1'-0"



## 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 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
COORDINATE WITH DECOR DRAWINGS

WF WALL FINISH
X—
A = TILE PER DECOR PORTFOLIO.
ROUTE 66: EUROWEST – 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.
B = WALL PANEL (RAY ONLY)
RAY: LAMITECH – D-3127 TX INDUSTRIAL CONCRETE

## GENERAL NOTES

- ALL ELEMENTS 'BY CP' TO BE ORDERED BY CENTRAL PURCHASING AND INSTALLED BY GC, UNO.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:
William C Sheppard
A R C H I T E C T
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HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:
McDonald's USA, LLC

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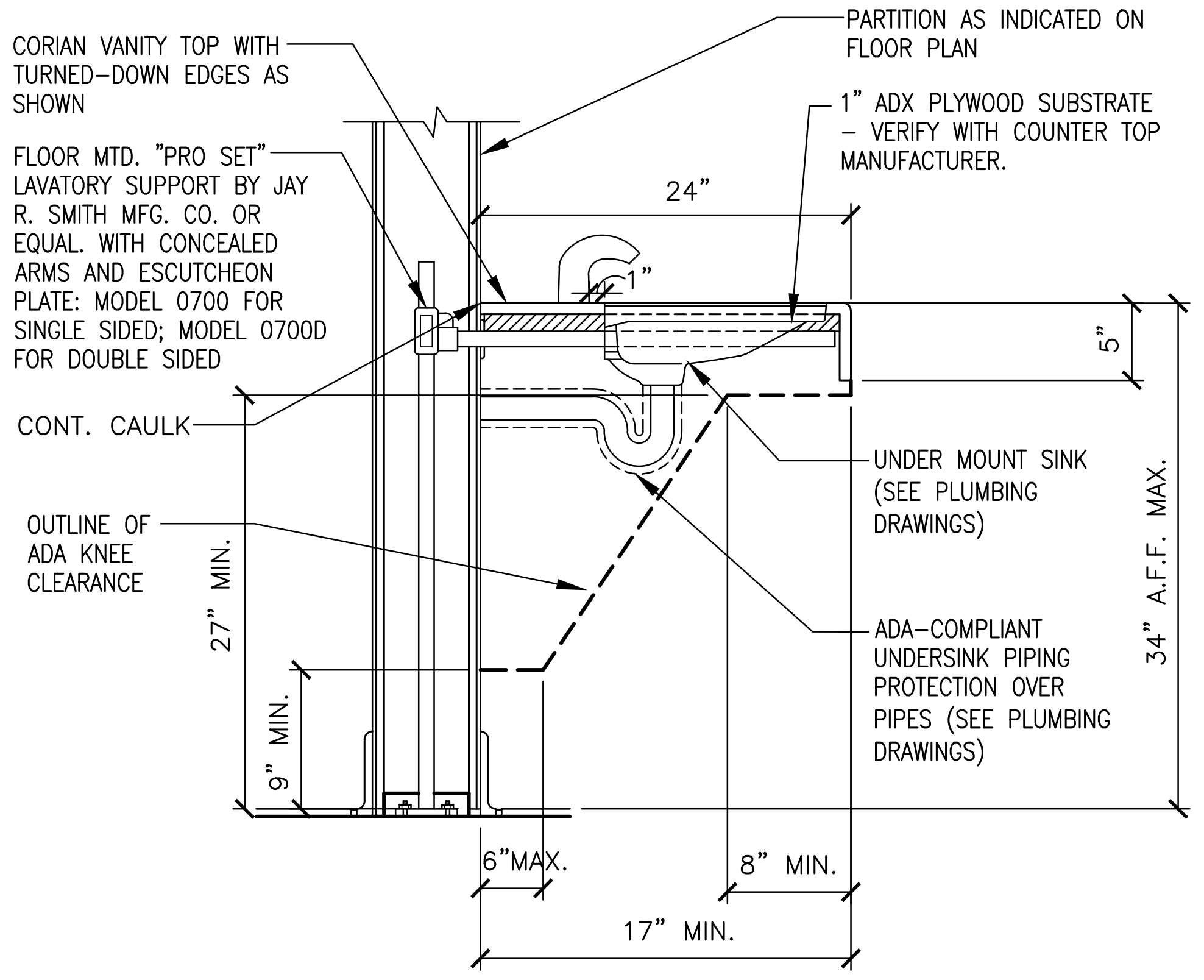
DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

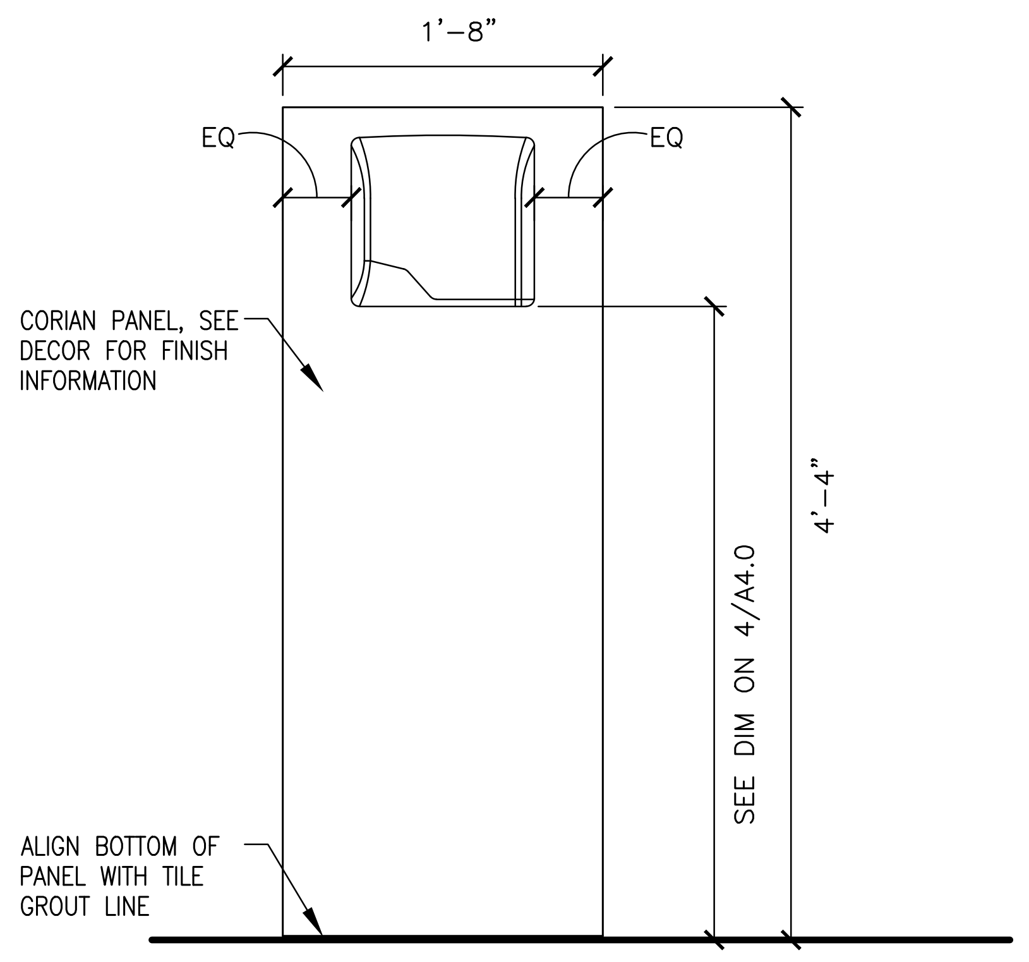
NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
A3.1
SERVICE AREA DETAILS


CORIAN VANITY TOP WITH TURNED-DOWN EDGES AS SHOWN
FLOOR MTD. "PRO SET" LAVATORY SUPPORT BY JAY R. SMITH MFG. CO. OR EQUAL. WITH CONCEALED ARMS AND ESCUTCHEON PLATE: MODEL 0700 FOR SINGLE SIDED; MODEL 0700D FOR DOUBLE SIDED
CONT. CAULK
OUTLINE OF ADA KNEE CLEARANCE
PARTITION AS INDICATED ON FLOOR PLAN
1" ADX PLYWOOD SUBSTRATE – VERIFY WITH COUNTER TOP MANUFACTURER.
24"
1"
5"
UNDER MOUNT SINK (SEE PLUMBING DRAWINGS)
ADA-COMPLIANT UNDERSINK PIPING PROTECTION OVER PIPES (SEE PLUMBING DRAWINGS)
34" A.F.F. MAX.
27" MIN.
9" MIN.
6"MAX.
8" MIN.
17" MIN.

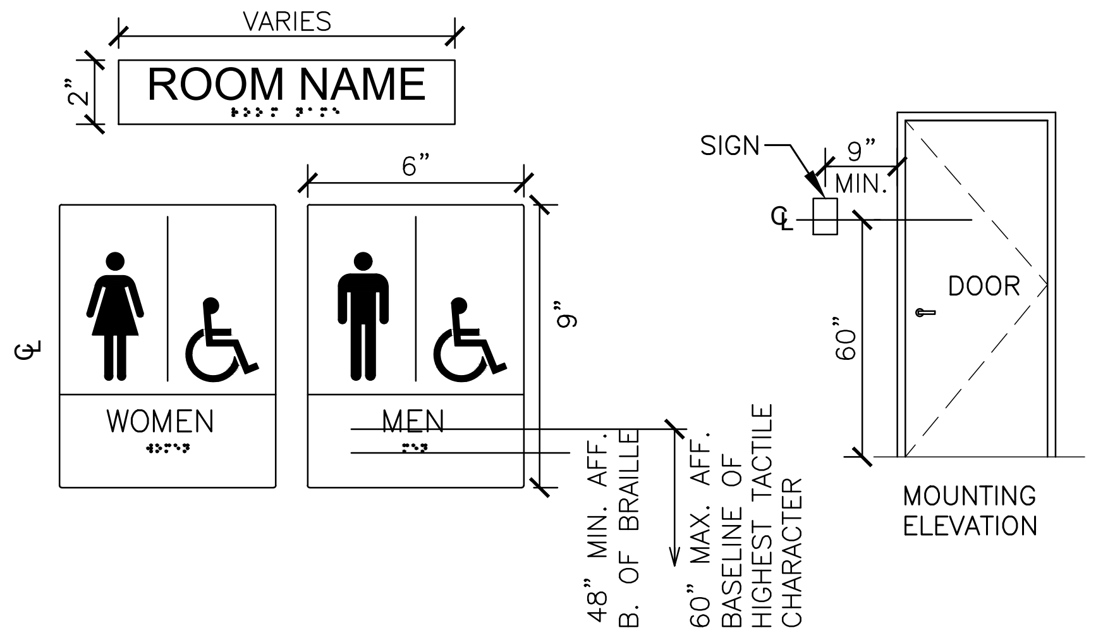
## 2 / A4.0 SECTION @ LAVATORY

1"=1'-0"


1'-8"
EQ
EQ
CORIAN PANEL, SEE DECOR FOR FINISH INFORMATION
4'-4"
SEE DIM ON 4/A4.0
ALIGN BOTTOM OF PANEL WITH TILE GROUT LINE

## 6 / A4.0 ELEVATION @ HAND DRYER

1"=1'-0"


VARIES
2"
ROOM NAME
6"
9"
WOMEN
MEN
48" MIN. AFF. B. OF BRAILLE
60" MAX. AFF. BASELINE OF HIGHEST TACTILE CHARACTER
SIGN
9" MIN.
60"
DOOR
MOUNTING ELEVATION

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

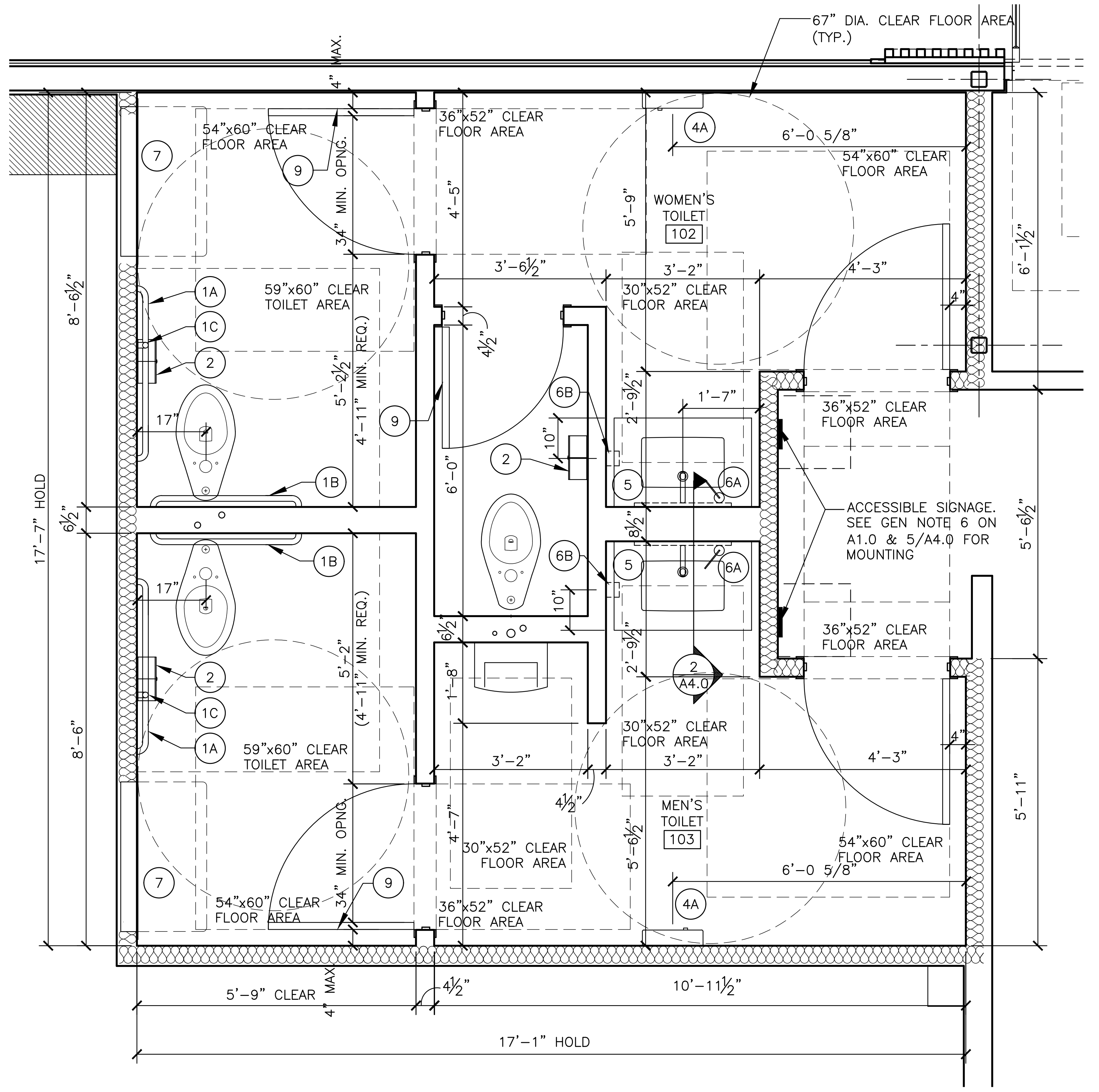
SIGNAGE NOTES:

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.



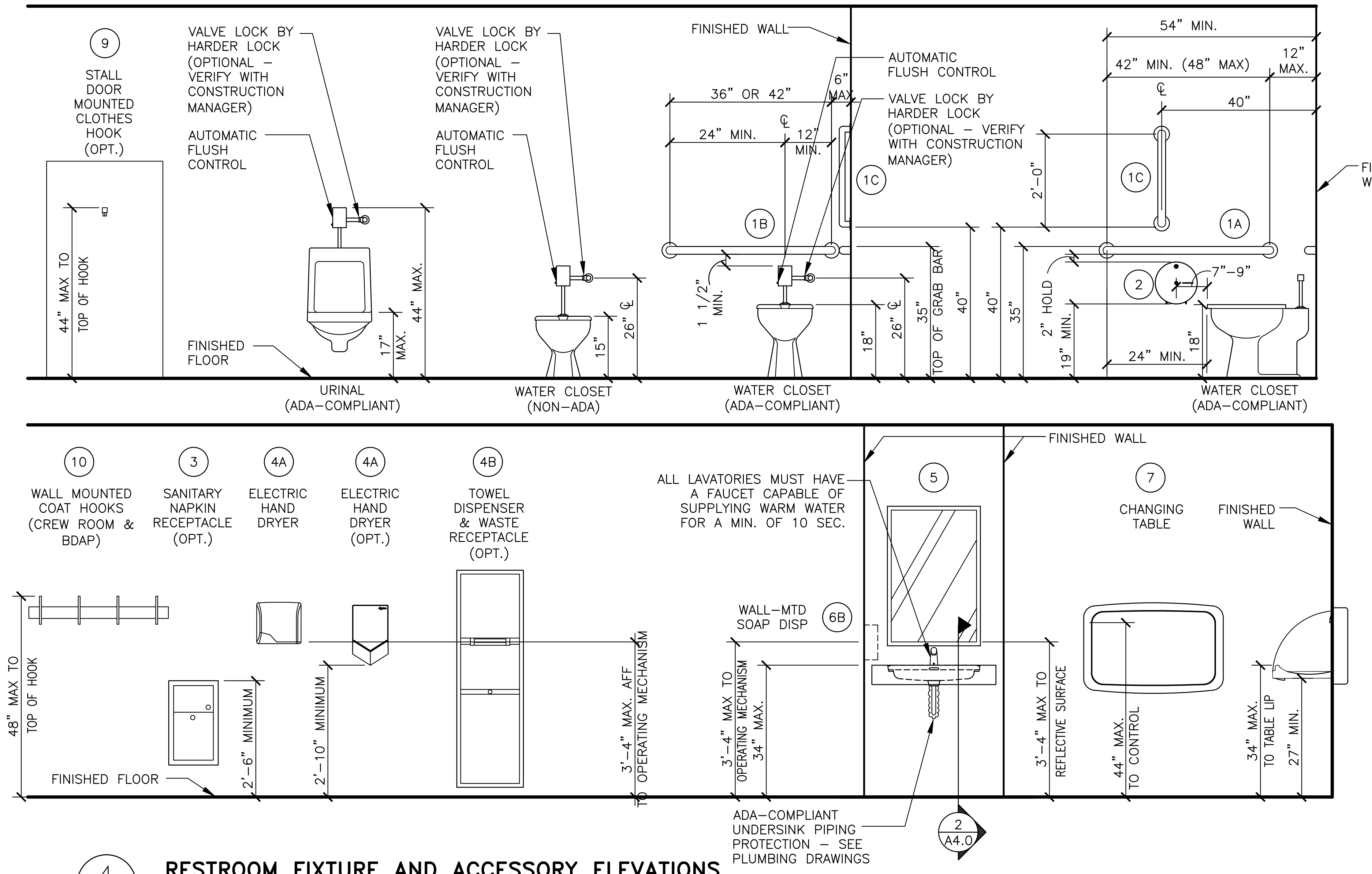
## 1 / A4.0 ENLARGED RESTROOM PLAN

1/2" = 1'-0"

NOTES

1. ALL DIMENSIONS SHOWN ARE TAKEN TO CEMENT BD.
2. SEE SHEET A1.0 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


9
STALL DOOR MOUNTED CLOTHES HOOK (OPT.)
44" MAX TO TOP OF HOOK
VALVE LOCK BY HARDER LOCK (OPTIONAL – VERIFY WITH CONSTRUCTION MANAGER)
AUTOMATIC FLUSH CONTROL
44" MAX.
17" MAX.
FINISHED FLOOR
URINAL (ADA-COMPLIANT)
VALVE LOCK BY HARDER LOCK (OPTIONAL – VERIFY WITH CONSTRUCTION MANAGER)
AUTOMATIC FLUSH CONTROL
15"
26" ℄
WATER CLOSET (NON-ADA)
FINISHED WALL
36" OR 42"
24" MIN.
12" MIN.
6" MAX
1 1/2" MIN.
1B
1C
18"
26" ℄
35"
WATER CLOSET (ADA-COMPLIANT)
AUTOMATIC FLUSH CONTROL
VALVE LOCK BY HARDER LOCK (OPTIONAL – VERIFY WITH CONSTRUCTION MANAGER)
TOP OF GRAB BAR
40"
40"
35"
54" MIN.
42" MIN. (48" MAX)
12" MAX.
40"
2'-0"
1C
1A
2
7"-9"
2" HOLD
19" MIN.
24" MIN.
18"
FINISHED WALL
WATER CLOSET (ADA-COMPLIANT)
10
WALL MOUNTED COAT HOOKS (CREW ROOM & BDAP)
48" MAX TO TOP OF HOOK
3
SANITARY NAPKIN RECEPTACLE (OPT.)
2'-6" MINIMUM
4A
ELECTRIC HAND DRYER
4A
ELECTRIC HAND DRYER (OPT.)
2'-10" MINIMUM
4B
TOWEL DISPENSER & WASTE RECEPTACLE (OPT.)
3'-4" MAX. AFF TO OPERATING MECHANISM
FINISHED FLOOR
ALL LAVATORIES MUST HAVE A FAUCET CAPABLE OF SUPPLYING WARM WATER FOR A MIN. OF 10 SEC.
WALL-MTD SOAP DISP
6B
3'-4" MAX TO OPERATING MECHANISM
34" MAX.
5
FINISHED WALL
ADA-COMPLIANT UNDERSINK PIPING PROTECTION – SEE PLUMBING DRAWINGS
2 A4.0
3'-4" MAX TO REFLECTIVE SURFACE
7
CHANGING TABLE
FINISHED WALL
44" MAX. TO CONTROL
34" MAX. TO TABLE LIP
27" MIN.

## 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 |
| 7 OPTION "A" | BABY CHANGING TABLE, HORIZONTAL, SURFACE MOUNT, ADA COMPLIANT, STAINLESS STEEL | KOALA KARE KB310-SSWM | 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 |
|---|---|---|---|

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:
William C Sheppard
A R C H I T E C T
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HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:
**McDonald's USA, LLC**

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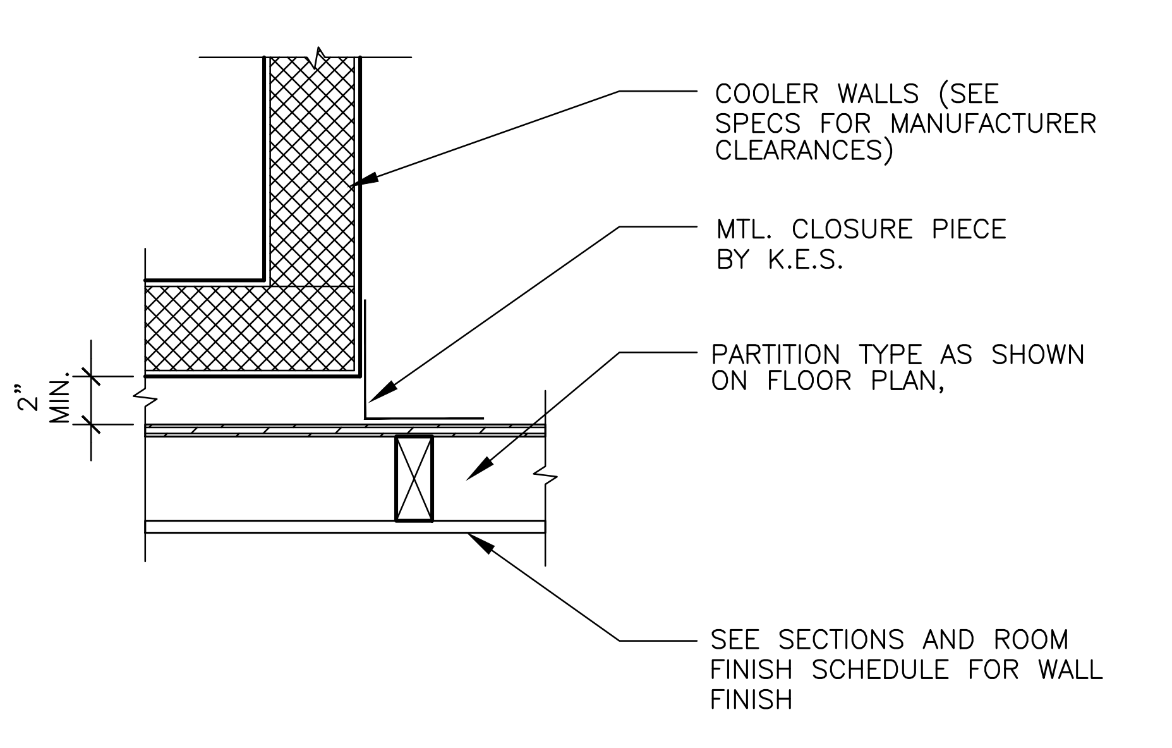
DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE: 2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

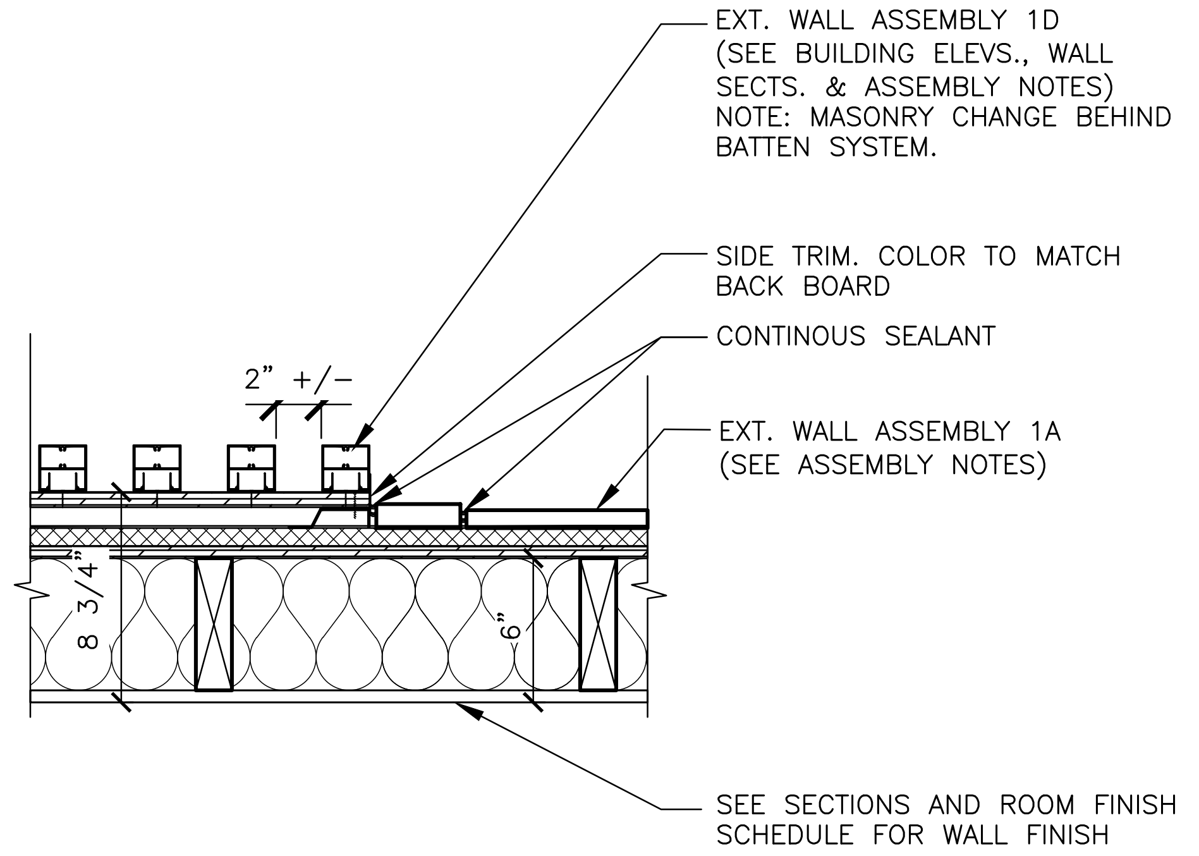
DESCRIPTION:
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS: 490 AMERICANA BOONVILLE, MO, 65233-9756

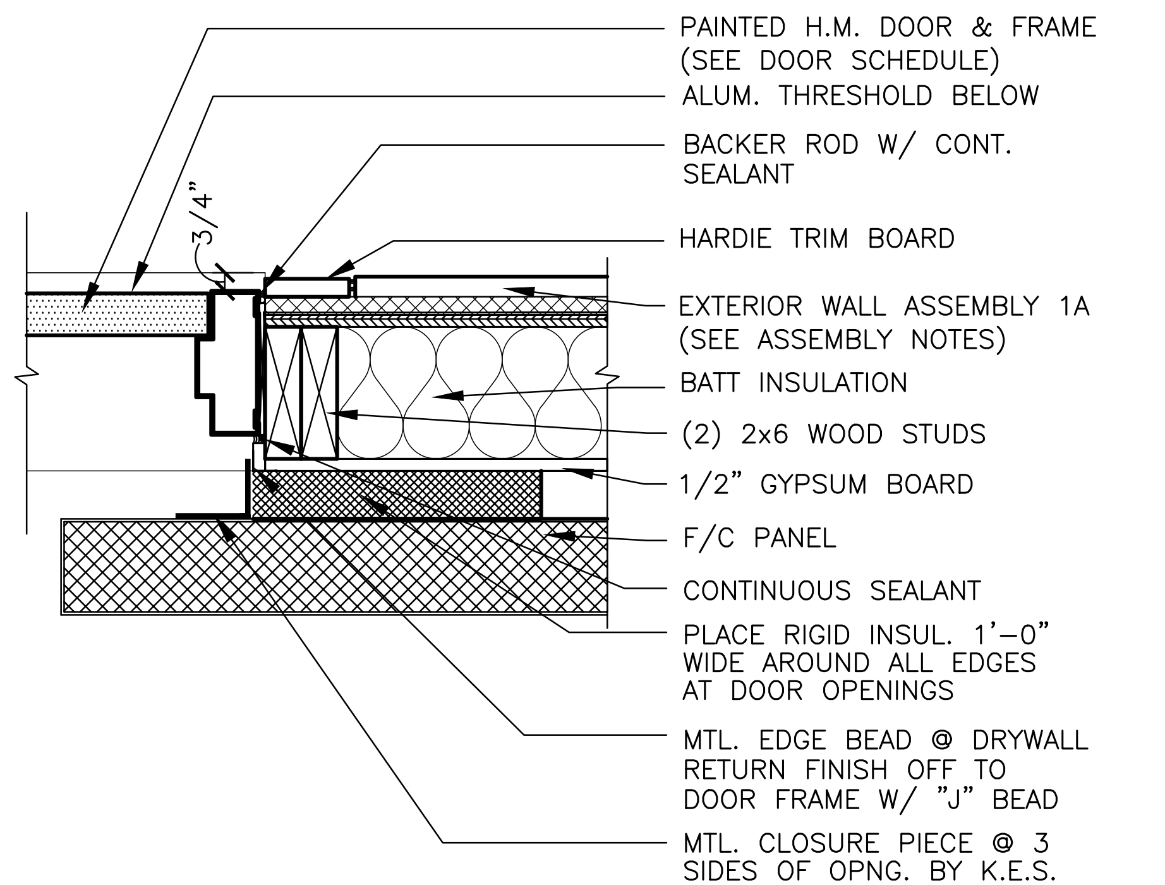
SHEET NO. 024-0281.00.0
A4.0
RESTROOM PLAN


COOLER WALLS (SEE SPECS FOR MANUFACTURER CLEARANCES)
MTL. CLOSURE PIECE BY K.E.S.
2" MIN.
PARTITION TYPE AS SHOWN ON FLOOR PLAN,
SEE SECTIONS AND ROOM FINISH SCHEDULE FOR WALL FINISH

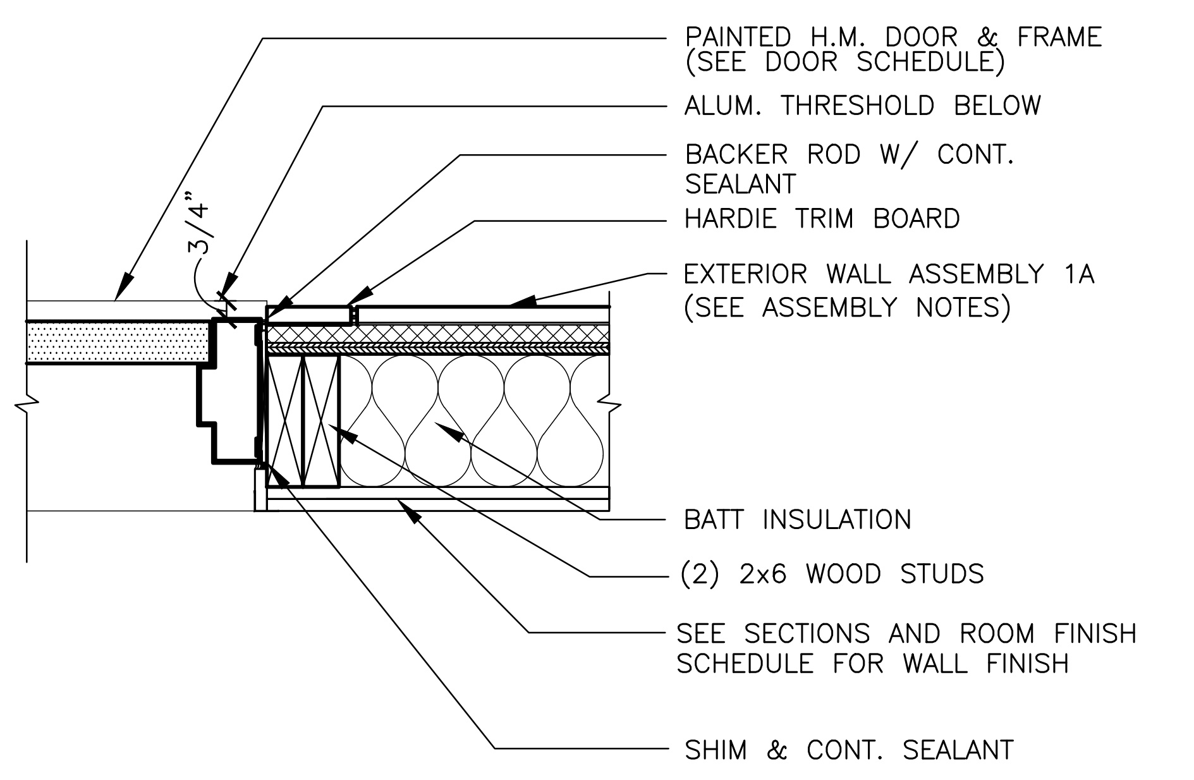
1 A4.1 **CLOSURE DETAIL @ COOLER**
1 1/2"=1'-0"


EXT. WALL ASSEMBLY 1D (SEE BUILDING ELEVS., WALL SECTS. & ASSEMBLY NOTES) NOTE: MASONRY CHANGE BEHIND BATTEN SYSTEM.
2" +/-
SIDE TRIM. COLOR TO MATCH BACK BOARD
CONTINOUS SEALANT
EXT. WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
8 3/4"
6"
SEE SECTIONS AND ROOM FINISH SCHEDULE FOR WALL FINISH

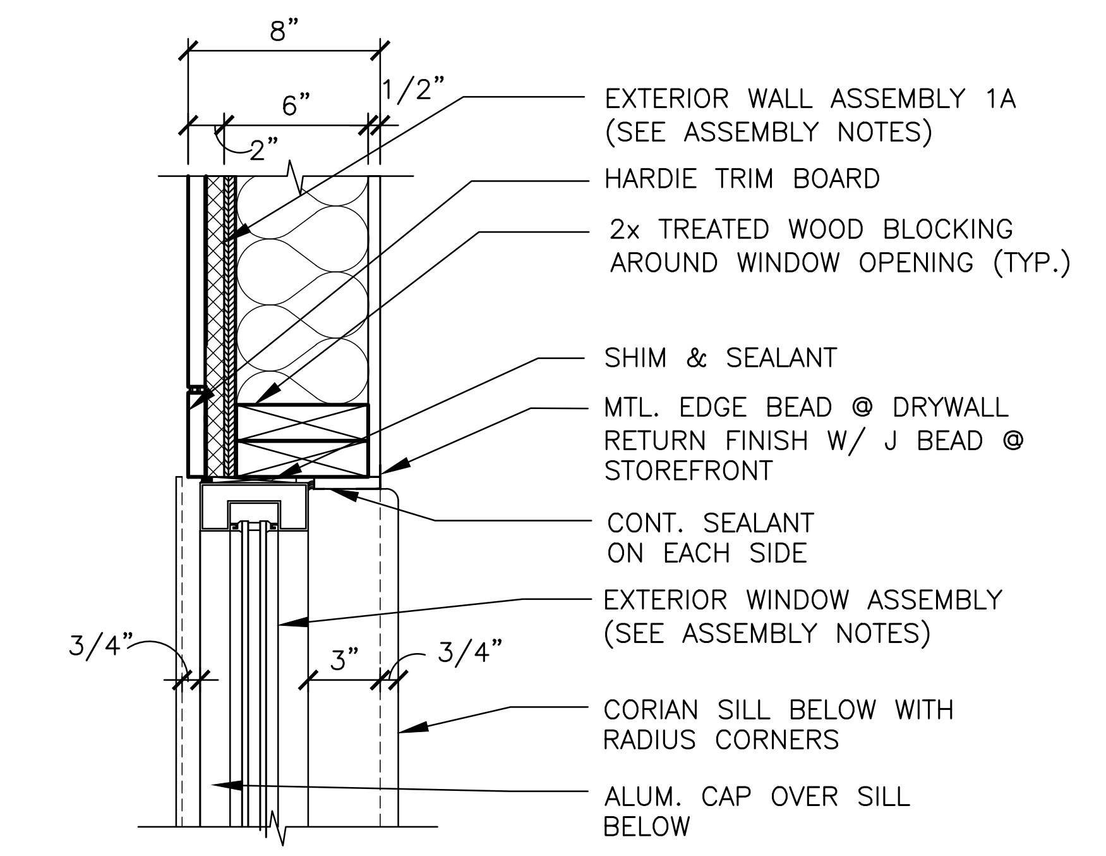
2 A4.1 **BATTEN TO HARDIE PLANK TRANSITION**
1 1/2"=1'-0"


3/4"
PAINTED H.M. DOOR & FRAME (SEE DOOR SCHEDULE)
ALUM. THRESHOLD BELOW
BACKER ROD W/ CONT. SEALANT
HARDIE TRIM BOARD
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
BATT INSULATION
(2) 2x6 WOOD STUDS
1/2" GYPSUM BOARD
F/C PANEL
CONTINUOUS SEALANT
PLACE RIGID INSUL. 1'-0" WIDE AROUND ALL EDGES AT DOOR OPENINGS
MTL. EDGE BEAD @ DRYWALL RETURN FINISH OFF TO DOOR FRAME W/ "J" BEAD
MTL. CLOSURE PIECE @ 3 SIDES OF OPNG. BY K.E.S. FASTEN TO F/C & WALL

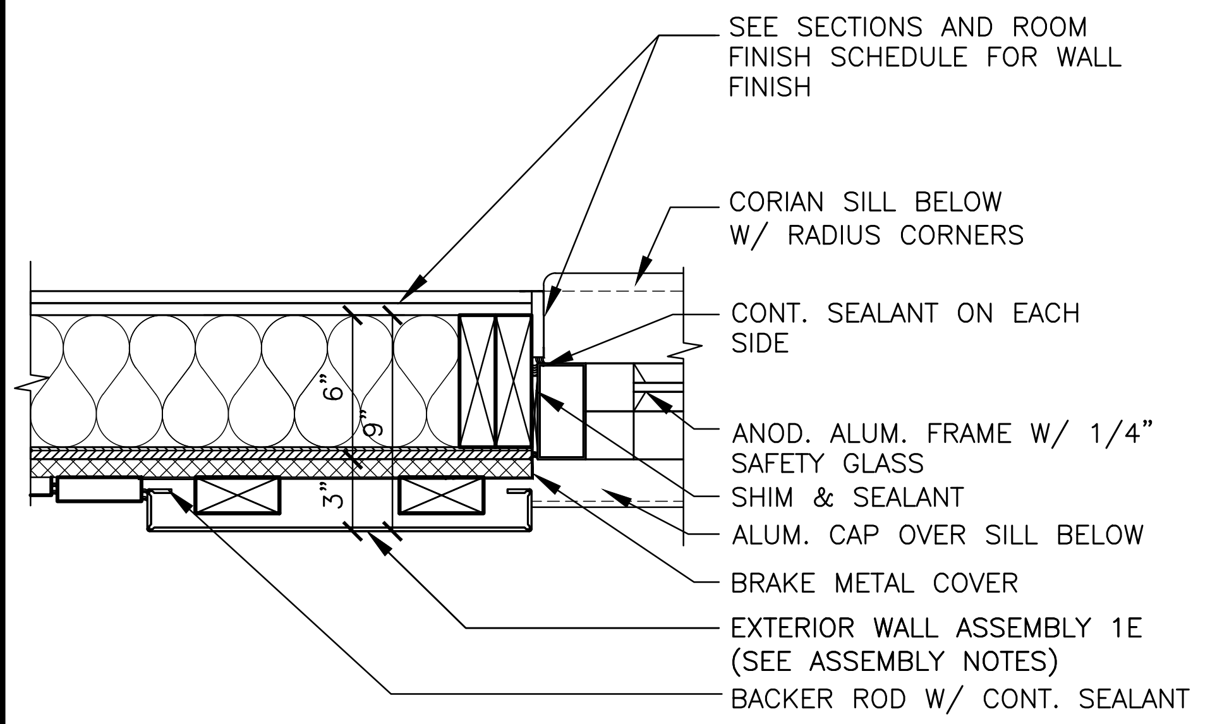
3 A4.1 **DOOR JAMB @ F/C DOOR**
1 1/2"=1'-0"


3/4"
PAINTED H.M. DOOR & FRAME (SEE DOOR SCHEDULE)
ALUM. THRESHOLD BELOW
BACKER ROD W/ CONT. SEALANT
HARDIE TRIM BOARD
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
BATT INSULATION
(2) 2x6 WOOD STUDS
SEE SECTIONS AND ROOM FINISH SCHEDULE FOR WALL FINISH
SHIM & CONT. SEALANT

4 A4.1 **EXT.DOOR JAMB DETAIL**
1 1/2"=1'-0"

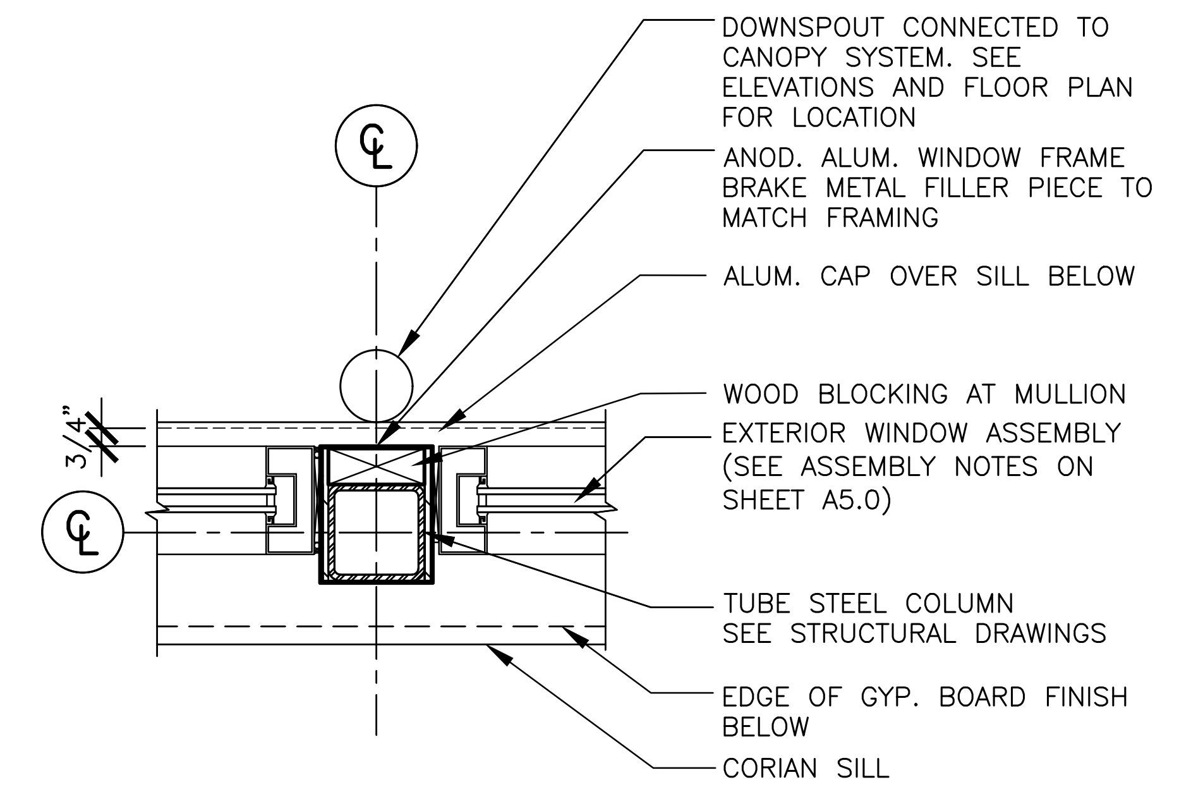

8"
6"
2"
1/2"
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
HARDIE TRIM BOARD
2x TREATED WOOD BLOCKING AROUND WINDOW OPENING (TYP.)
SHIM & SEALANT
MTL. EDGE BEAD @ DRYWALL RETURN FINISH W/ J BEAD @ STOREFRONT
CONT. SEALANT ON EACH SIDE
EXTERIOR WINDOW ASSEMBLY (SEE ASSEMBLY NOTES)
3/4"
3"
3/4"
CORIAN SILL BELOW WITH RADIUS CORNERS
ALUM. CAP OVER SILL BELOW

5 A4.1 **CREW WINDOW JAMB DETAIL**
1 1/2"=1'-0"


SEE SECTIONS AND ROOM FINISH SCHEDULE FOR WALL FINISH
CORIAN SILL BELOW W/ RADIUS CORNERS
CONT. SEALANT ON EACH SIDE
6"
9"
3"
ANOD. ALUM. FRAME W/ 1/4" SAFETY GLASS
SHIM & SEALANT
ALUM. CAP OVER SILL BELOW
BRAKE METAL COVER
EXTERIOR WALL ASSEMBLY 1E (SEE ASSEMBLY NOTES)
BACKER ROD W/ CONT. SEALANT

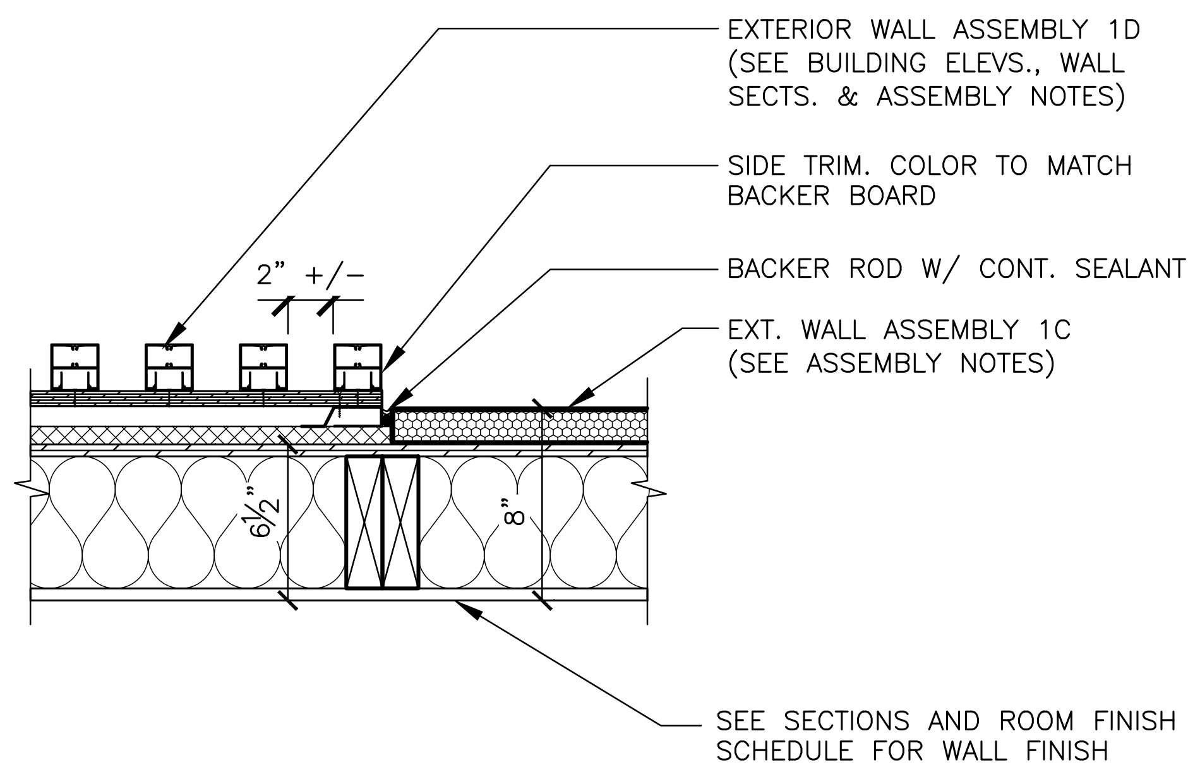
6 A4.1 **ORDER WINDOW JAMB DETAIL**
1 1/2"=1'-0"

7 A4.1 **—**
—

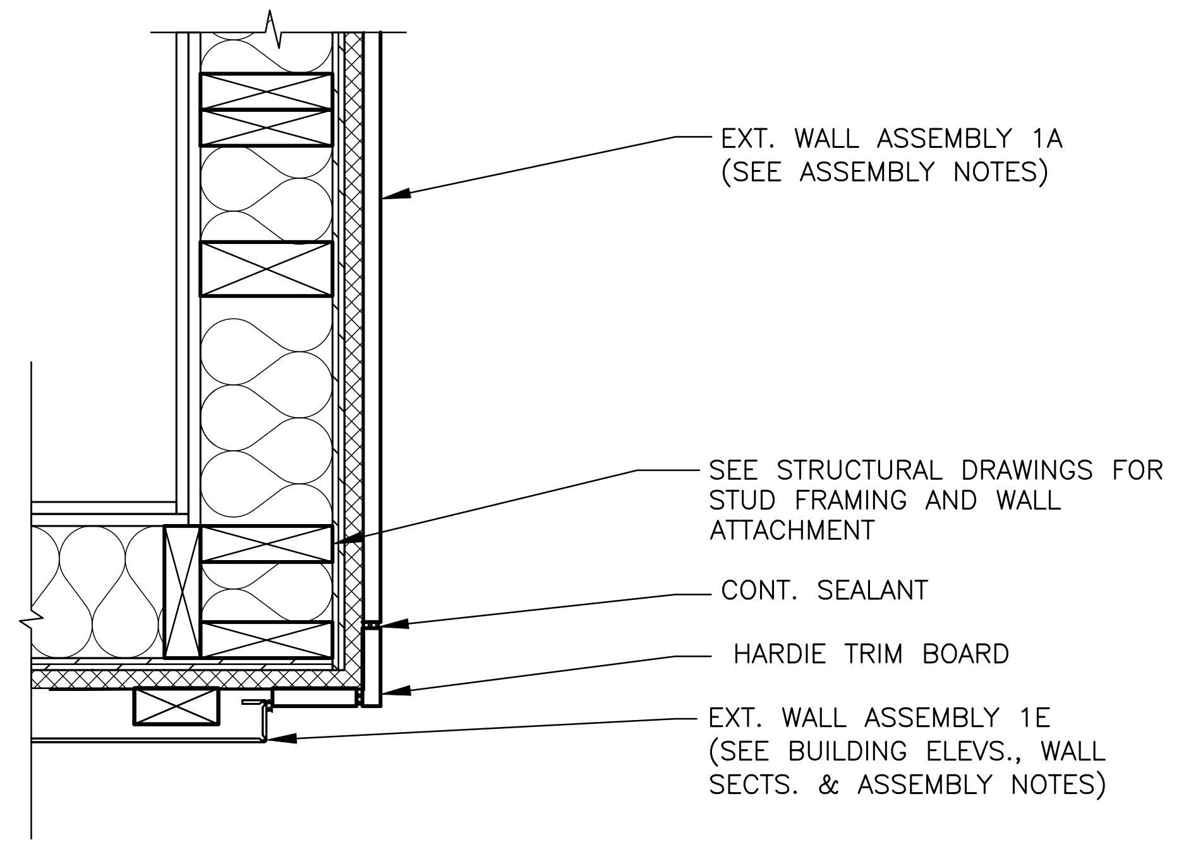

℄
3/4"
DOWNSPOUT CONNECTED TO CANOPY SYSTEM. SEE ELEVATIONS AND FLOOR PLAN FOR LOCATION
ANOD. ALUM. WINDOW FRAME BRAKE METAL FILLER PIECE TO MATCH FRAMING
ALUM. CAP OVER SILL BELOW
WOOD BLOCKING AT MULLION
EXTERIOR WINDOW ASSEMBLY (SEE ASSEMBLY NOTES ON SHEET A5.0)
TUBE STEEL COLUMN SEE STRUCTURAL DRAWINGS
EDGE OF GYP. BOARD FINISH BELOW
CORIAN SILL

8 A4.1 **DETAIL @ COLUMN**
1 1/2"=1'-0"

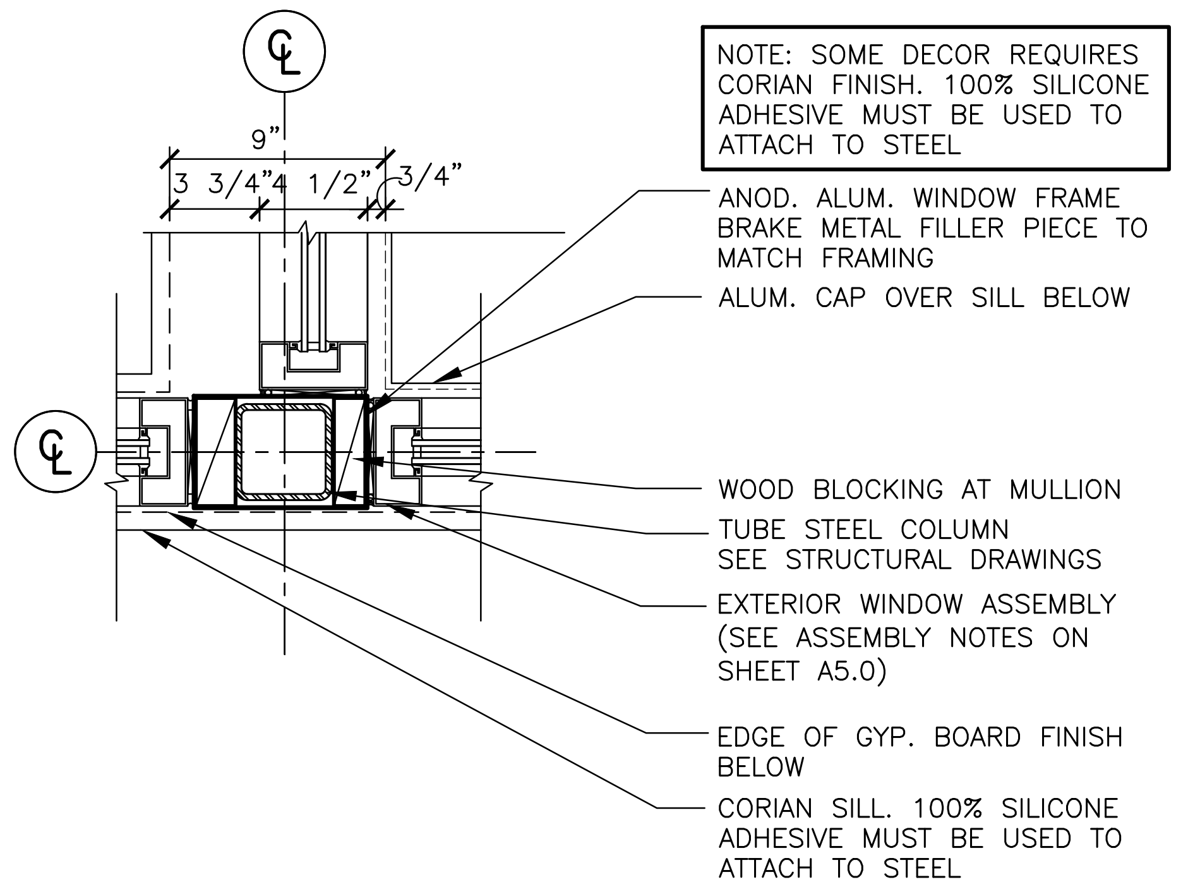
9 A4.1 **—**
—


EXTERIOR WALL ASSEMBLY 1D (SEE BUILDING ELEVS., WALL SECTS. & ASSEMBLY NOTES)
SIDE TRIM. COLOR TO MATCH BACKER BOARD
2" +/-
BACKER ROD W/ CONT. SEALANT
EXT. WALL ASSEMBLY 1C (SEE ASSEMBLY NOTES)
6½"
8"
SEE SECTIONS AND ROOM FINISH SCHEDULE FOR WALL FINISH

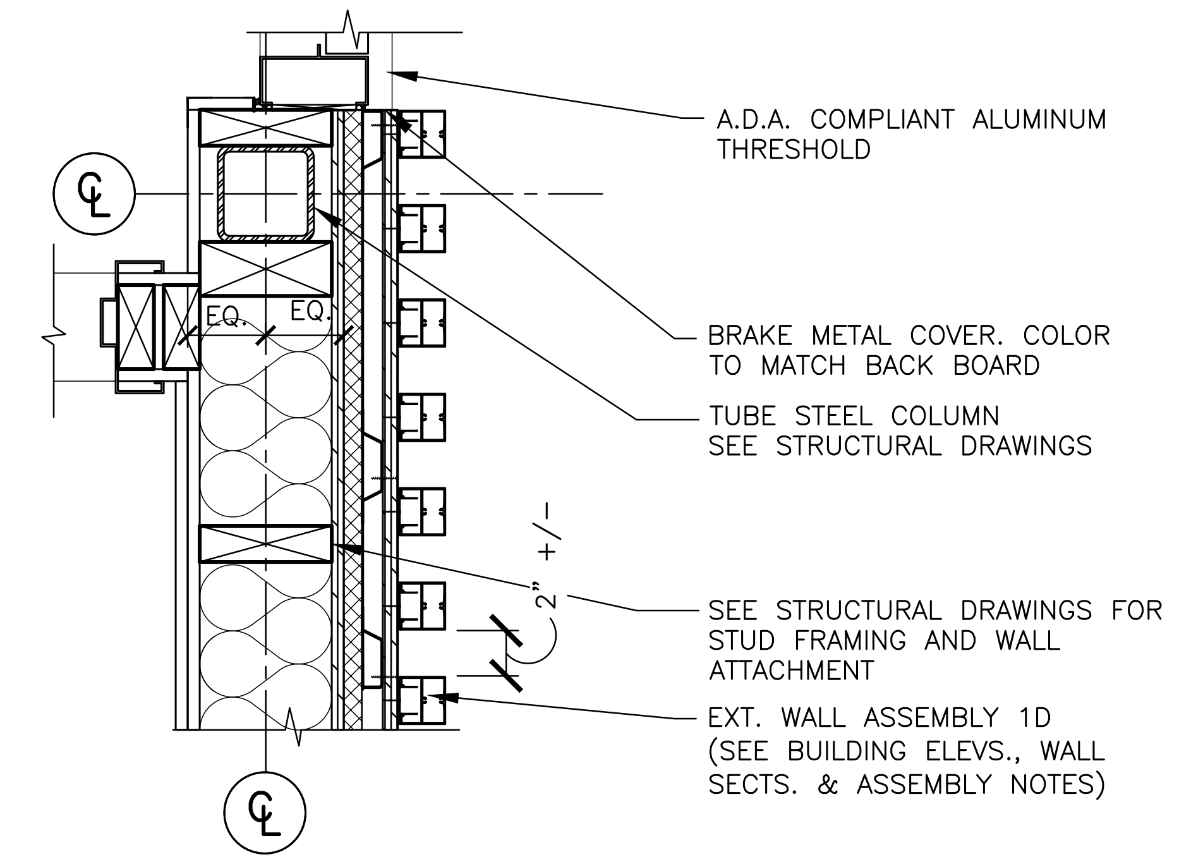
10 A4.1 **BATTEN TO EIFS TRANSITION**
1 1/2"=1'-0"


EXT. WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
SEE STRUCTURAL DRAWINGS FOR STUD FRAMING AND WALL ATTACHMENT
CONT. SEALANT
HARDIE TRIM BOARD
EXT. WALL ASSEMBLY 1E (SEE BUILDING ELEVS., WALL SECTS. & ASSEMBLY NOTES)

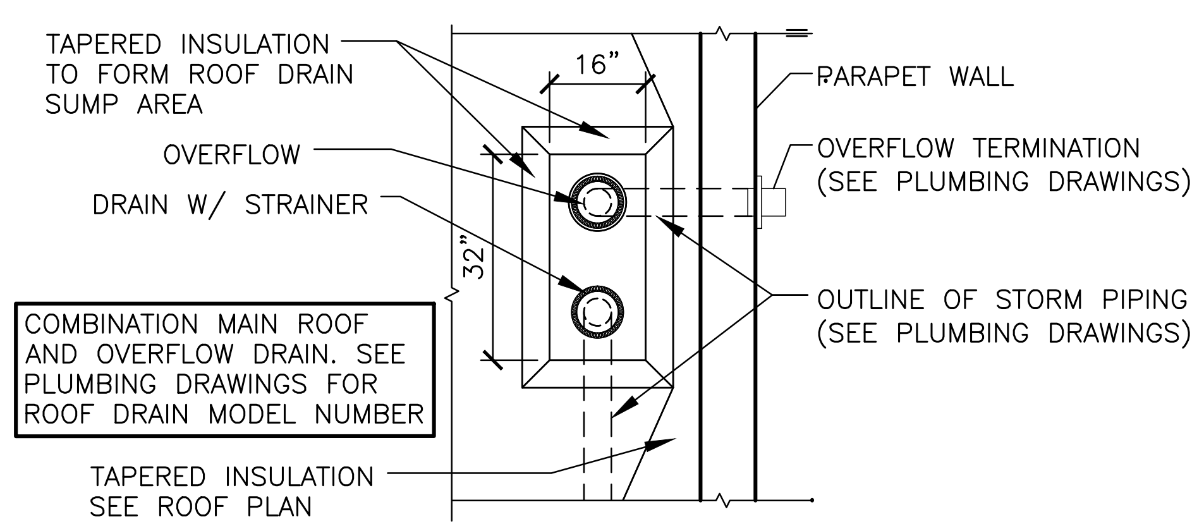
11 A4.1 **CORNER DETAIL @ DT SURROUND**
1 1/2"=1'-0"


℄
9"
3 3/4"
1/2"
3/4"
NOTE: SOME DECOR REQUIRES CORIAN FINISH. 100% SILICONE ADHESIVE MUST BE USED TO ATTACH TO STEEL
ANOD. ALUM. WINDOW FRAME BRAKE METAL FILLER PIECE TO MATCH FRAMING
ALUM. CAP OVER SILL BELOW
WOOD BLOCKING AT MULLION
TUBE STEEL COLUMN SEE STRUCTURAL DRAWINGS
EXTERIOR WINDOW ASSEMBLY (SEE ASSEMBLY NOTES ON SHEET A5.0)
EDGE OF GYP. BOARD FINISH BELOW
CORIAN SILL. 100% SILICONE ADHESIVE MUST BE USED TO ATTACH TO STEEL

12 A4.1 **DETAIL @ COLUMN**
1 1/2"=1'-0"

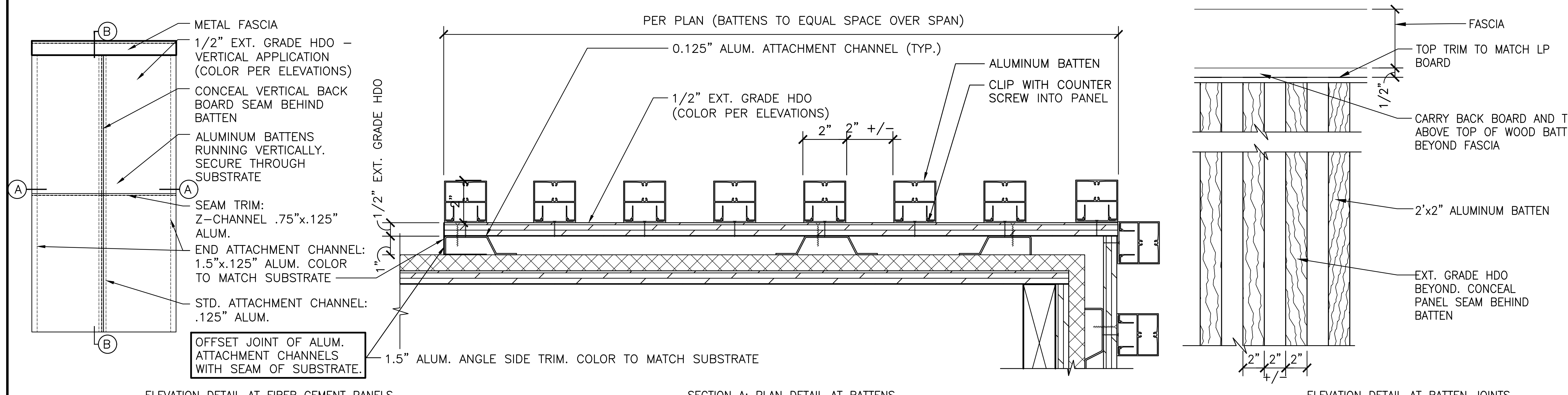

℄
EQ.
EQ.
A.D.A. COMPLIANT ALUMINUM THRESHOLD
BRAKE METAL COVER. COLOR TO MATCH BACK BOARD
TUBE STEEL COLUMN SEE STRUCTURAL DRAWINGS
2" +/-
SEE STRUCTURAL DRAWINGS FOR STUD FRAMING AND WALL ATTACHMENT
EXT. WALL ASSEMBLY 1D (SEE BUILDING ELEVS., WALL SECTS. & ASSEMBLY NOTES)

13 A4.1 **DETAIL @ COLUMN**
1 1/2"=1'-0"


TAPERED INSULATION TO FORM ROOF DRAIN SUMP AREA
OVERFLOW
DRAIN W/ STRAINER
16"
32"
PARAPET WALL
OVERFLOW TERMINATION (SEE PLUMBING DRAWINGS)
OUTLINE OF STORM PIPING (SEE PLUMBING DRAWINGS)
COMBINATION MAIN ROOF AND OVERFLOW DRAIN. SEE PLUMBING DRAWINGS FOR ROOF DRAIN MODEL NUMBER
TAPERED INSULATION SEE ROOF PLAN

14 A4.1 **ROOF DRAIN DETAIL**
1/4"=1'-0"

15 A4.1 **—**
—


B
A
METAL FASCIA
1/2" EXT. GRADE HDO – VERTICAL APPLICATION (COLOR PER ELEVATIONS)
CONCEAL VERTICAL BACK BOARD SEAM BEHIND BATTEN
ALUMINUM BATTENS RUNNING VERTICALLY. SECURE THROUGH SUBSTRATE
SEAM TRIM: Z-CHANNEL .75"x.125" ALUM.
END ATTACHMENT CHANNEL: 1.5"x.125" ALUM. COLOR TO MATCH SUBSTRATE
STD. ATTACHMENT CHANNEL: .125" ALUM.
OFFSET JOINT OF ALUM. ATTACHMENT CHANNELS WITH SEAM OF SUBSTRATE.
1/2" EXT. GRADE HDO
1/2"
1"
PER PLAN (BATTENS TO EQUAL SPACE OVER SPAN)
0.125" ALUM. ATTACHMENT CHANNEL (TYP.)
1/2" EXT. GRADE HDO (COLOR PER ELEVATIONS)
ALUMINUM BATTEN
CLIP WITH COUNTER SCREW INTO PANEL
2"
2" +/-
1.5" ALUM. ANGLE SIDE TRIM. COLOR TO MATCH SUBSTRATE
FASCIA
TOP TRIM TO MATCH LP BOARD
1/2"
CARRY BACK BOARD AND TOP TRIM ABOVE TOP OF WOOD BATTENS BEYOND FASCIA
2"x2" ALUMINUM BATTEN
EXT. GRADE HDO BEYOND. CONCEAL PANEL SEAM BEHIND BATTEN
2"
2"
2"
+/-

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 |
|---|---|---|---|
| | | | |

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:
William C Sheppard
ARCHITECT
210 CENTRAL AVE., STE 3
HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:

**® McDonald's USA, LLC**

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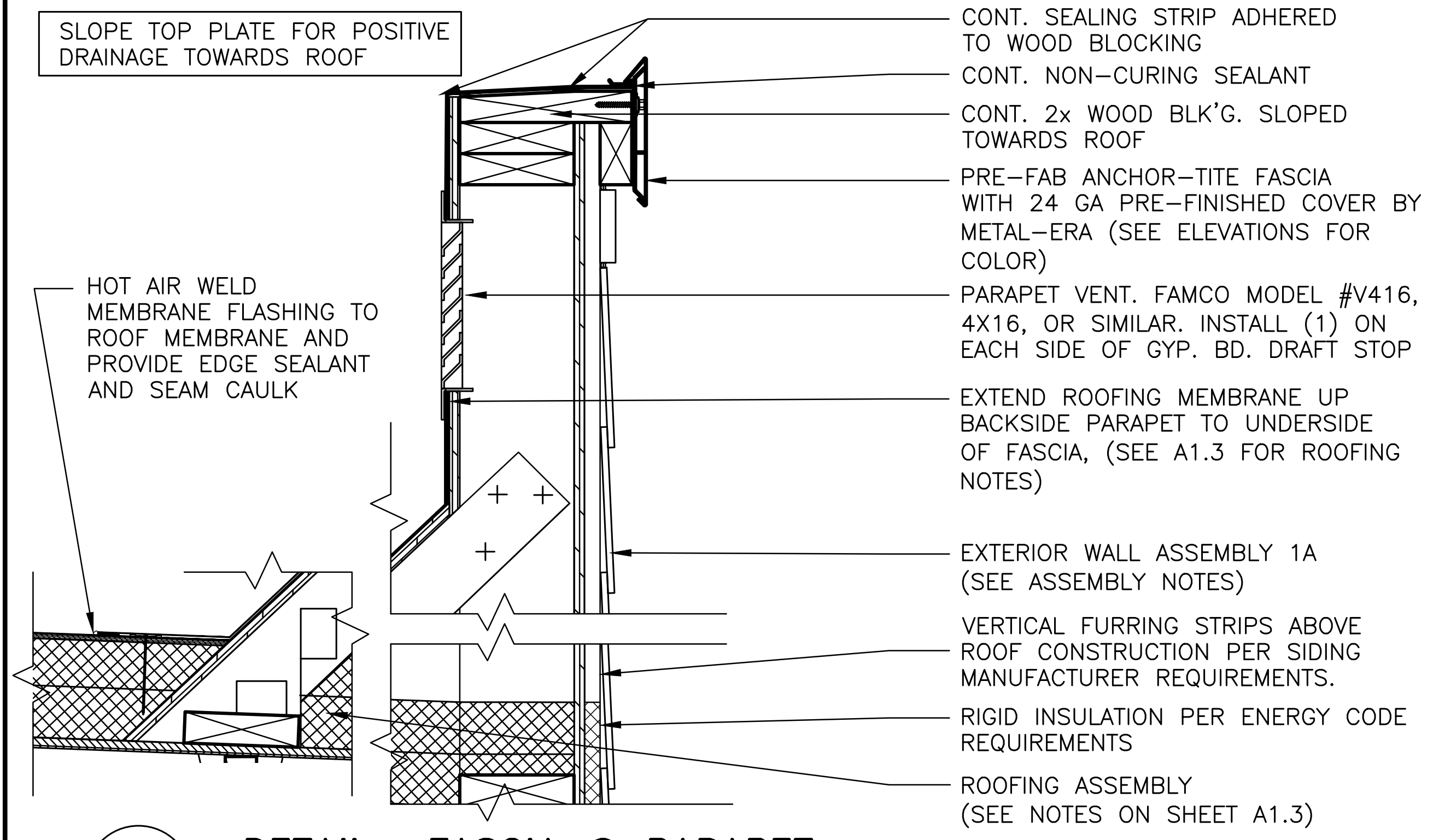
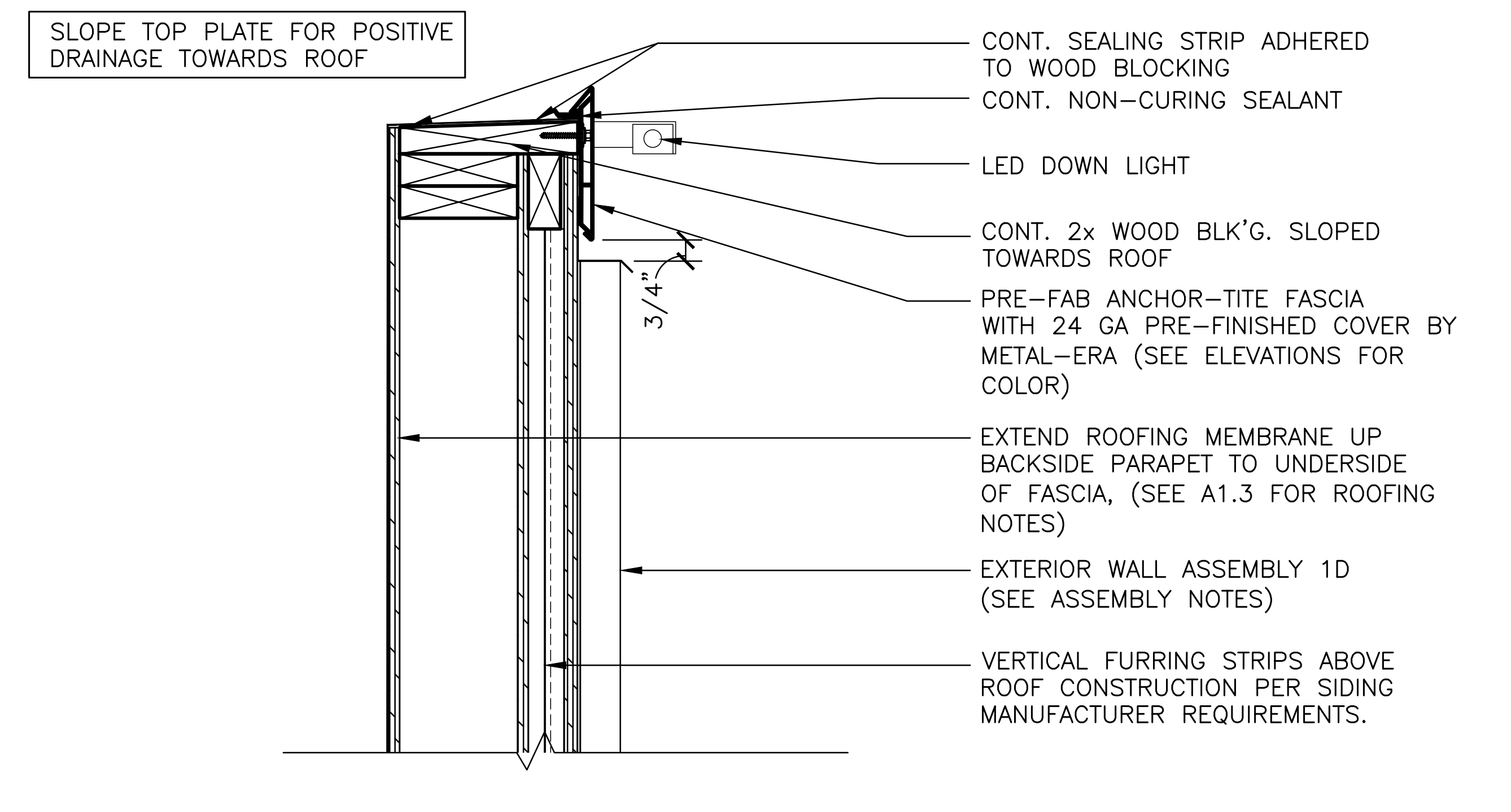
DRAWN BY
SO
STD ISSUE DATE
2025 05
REVIEWED BY
CS
DATE ISSUED
10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH
NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

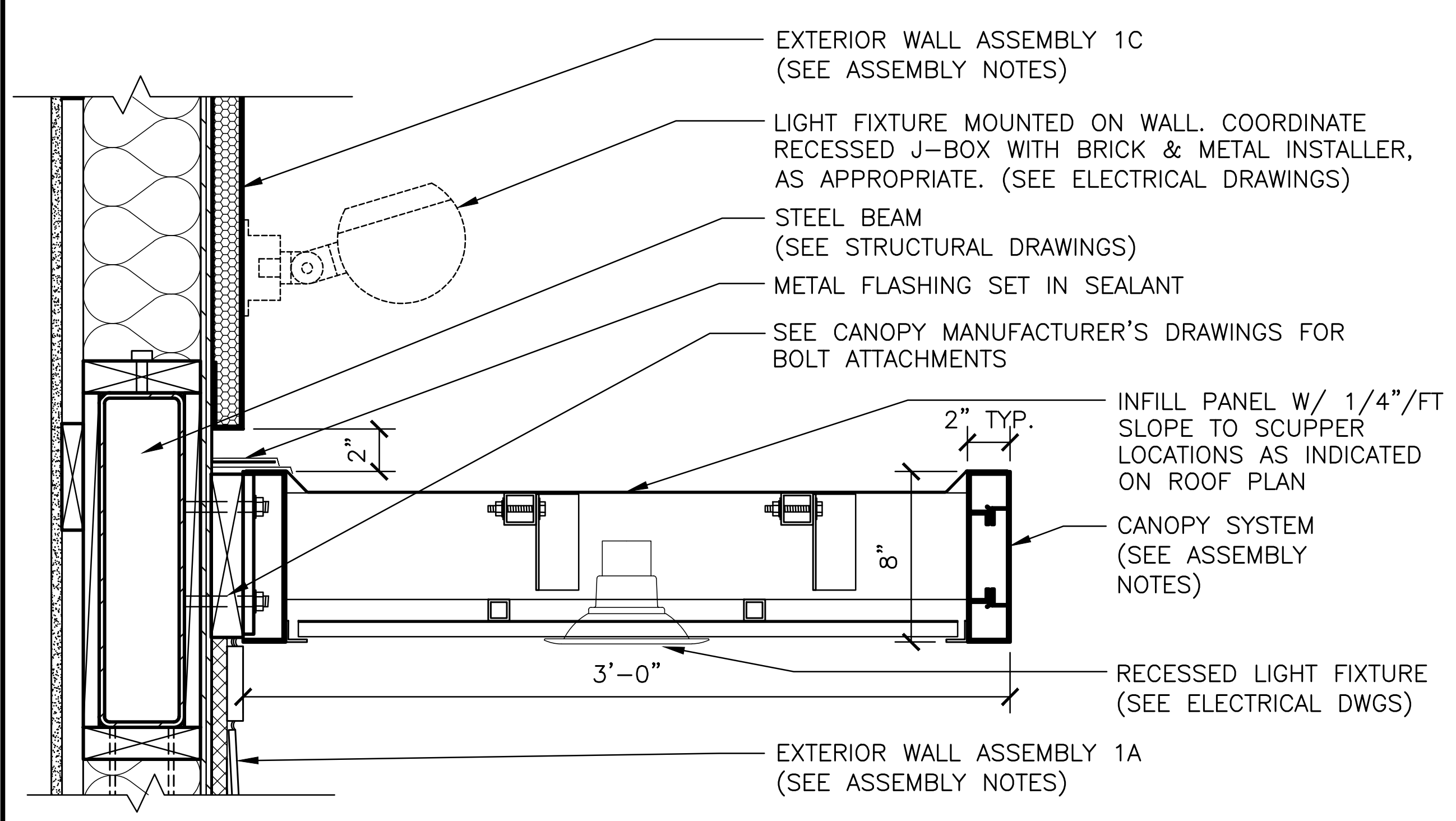
SHEET NO.
024-0281.00.0
A4.1
PLAN DETAILS


SLOPE TOP PLATE FOR POSITIVE DRAINAGE TOWARDS ROOF
CONT. SEALING STRIP ADHERED TO WOOD BLOCKING
CONT. NON-CURING SEALANT
CONT. 2x WOOD BLK'G. SLOPED TOWARDS ROOF
PRE-FAB ANCHOR-TITE FASCIA WITH 24 GA PRE-FINISHED COVER BY METAL-ERA (SEE ELEVATIONS FOR COLOR)
HOT AIR WELD MEMBRANE FLASHING TO ROOF MEMBRANE AND PROVIDE EDGE SEALANT AND SEAM CAULK
PARAPET VENT. FAMCO MODEL #V416, 4X16, OR SIMILAR. INSTALL (1) ON EACH SIDE OF GYP. BD. DRAFT STOP
EXTEND ROOFING MEMBRANE UP BACKSIDE PARAPET TO UNDERSIDE OF FASCIA, (SEE A1.3 FOR ROOFING NOTES)
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
VERTICAL FURRING STRIPS ABOVE ROOF CONSTRUCTION PER SIDING MANUFACTURER REQUIREMENTS.
RIGID INSULATION PER ENERGY CODE REQUIREMENTS
ROOFING ASSEMBLY (SEE NOTES ON SHEET A1.3)

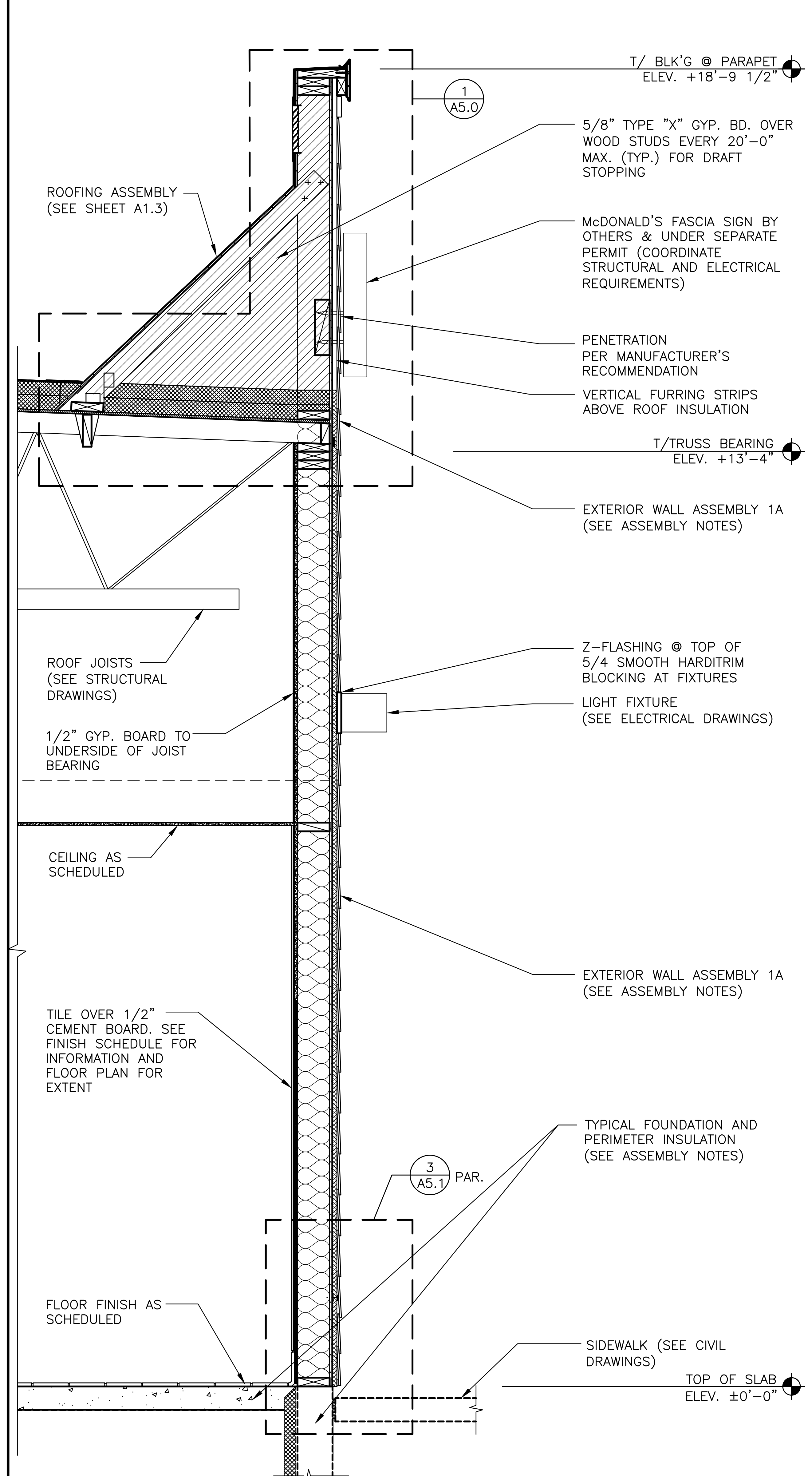
1
A5.0
## DETAIL- FASCIA @ PARAPET
1 1/2" = 1'-0"


SLOPE TOP PLATE FOR POSITIVE DRAINAGE TOWARDS ROOF
3/4"
CONT. SEALING STRIP ADHERED TO WOOD BLOCKING
CONT. NON-CURING SEALANT
LED DOWN LIGHT
CONT. 2x WOOD BLK'G. SLOPED TOWARDS ROOF
PRE-FAB ANCHOR-TITE FASCIA WITH 24 GA PRE-FINISHED COVER BY METAL-ERA (SEE ELEVATIONS FOR COLOR)
EXTEND ROOFING MEMBRANE UP BACKSIDE PARAPET TO UNDERSIDE OF FASCIA, (SEE A1.3 FOR ROOFING NOTES)
EXTERIOR WALL ASSEMBLY 1D (SEE ASSEMBLY NOTES)
VERTICAL FURRING STRIPS ABOVE ROOF CONSTRUCTION PER SIDING MANUFACTURER REQUIREMENTS.

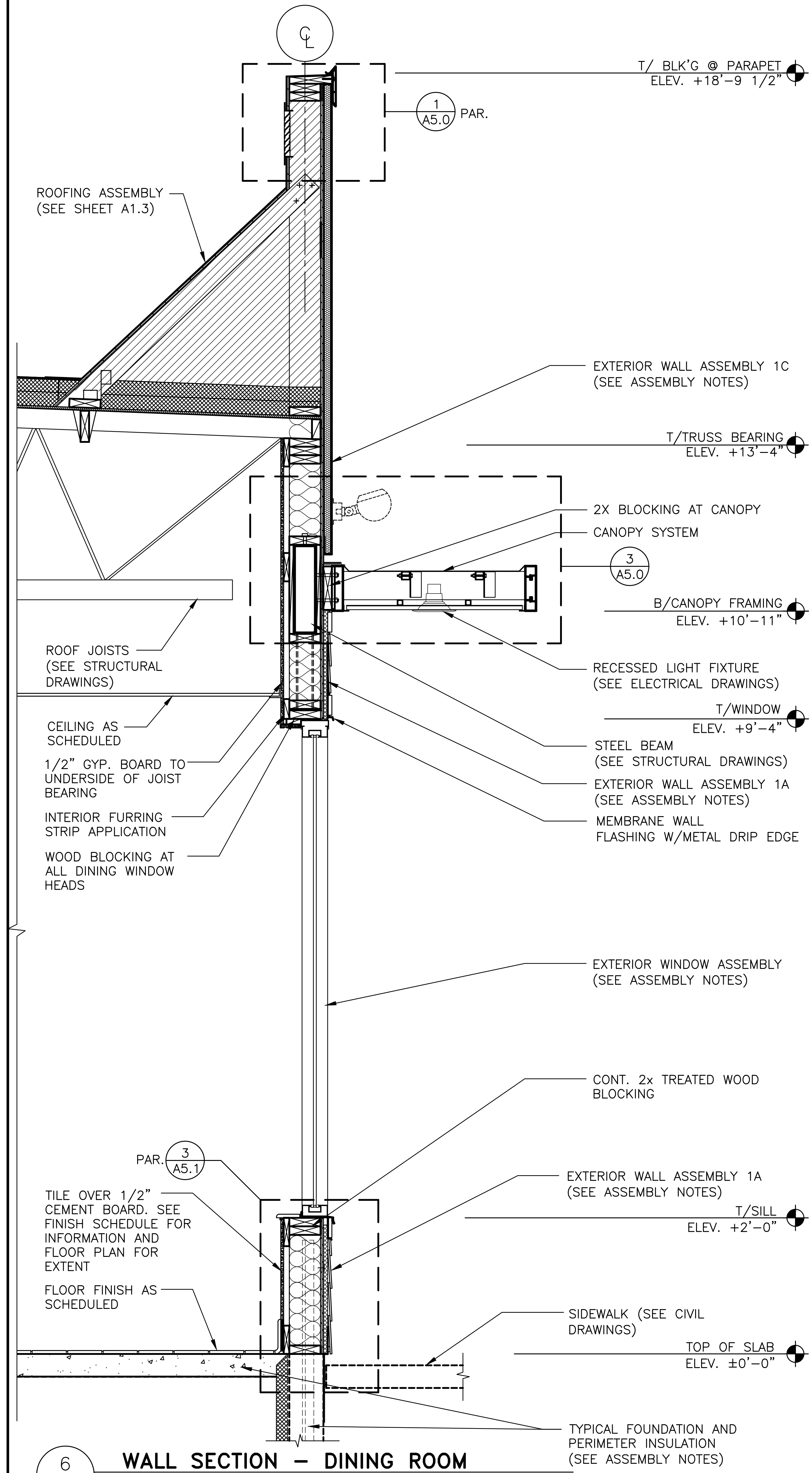
2
A5.0
## DETAIL- FASCIA @ AL PARAPET
1 1/2" = 1'-0"


EXTERIOR WALL ASSEMBLY 1C (SEE ASSEMBLY NOTES)
LIGHT FIXTURE MOUNTED ON WALL. COORDINATE RECESSED J-BOX WITH BRICK & METAL INSTALLER, AS APPROPRIATE. (SEE ELECTRICAL DRAWINGS)
STEEL BEAM (SEE STRUCTURAL DRAWINGS)
METAL FLASHING SET IN SEALANT
SEE CANOPY MANUFACTURER'S DRAWINGS FOR BOLT ATTACHMENTS
INFILL PANEL W/ 1/4"/FT SLOPE TO SCUPPER LOCATIONS AS INDICATED ON ROOF PLAN
2" TYP.
2"
8"
CANOPY SYSTEM (SEE ASSEMBLY NOTES)
3'-0"
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DWGS)
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)

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


T/ BLK'G @ PARAPET ELEV. +18'-9 1/2"
1 A5.0
5/8" TYPE "X" GYP. BD. OVER WOOD STUDS EVERY 20'-0" MAX. (TYP.) FOR DRAFT STOPPING
ROOFING ASSEMBLY (SEE SHEET A1.3)
McDONALD'S FASCIA SIGN BY OTHERS & UNDER SEPARATE PERMIT (COORDINATE STRUCTURAL AND ELECTRICAL REQUIREMENTS)
PENETRATION PER MANUFACTURER'S RECOMMENDATION
VERTICAL FURRING STRIPS ABOVE ROOF INSULATION
T/TRUSS BEARING ELEV. +13'-4"
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
ROOF JOISTS (SEE STRUCTURAL DRAWINGS)
Z-FLASHING @ TOP OF 5/4 SMOOTH HARDITRIM BLOCKING AT FIXTURES
1/2" GYP. BOARD TO UNDERSIDE OF JOIST BEARING
LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
CEILING AS SCHEDULED
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
TILE OVER 1/2" CEMENT BOARD. SEE FINISH SCHEDULE FOR INFORMATION AND FLOOR PLAN FOR EXTENT
TYPICAL FOUNDATION AND PERIMETER INSULATION (SEE ASSEMBLY NOTES)
3 A5.1 PAR.
FLOOR FINISH AS SCHEDULED
SIDEWALK (SEE CIVIL DRAWINGS)
TOP OF SLAB ELEV. ±0'-0"

5
A5.0
## WALL SECTION - RESTROOM
3/4" = 1'-0"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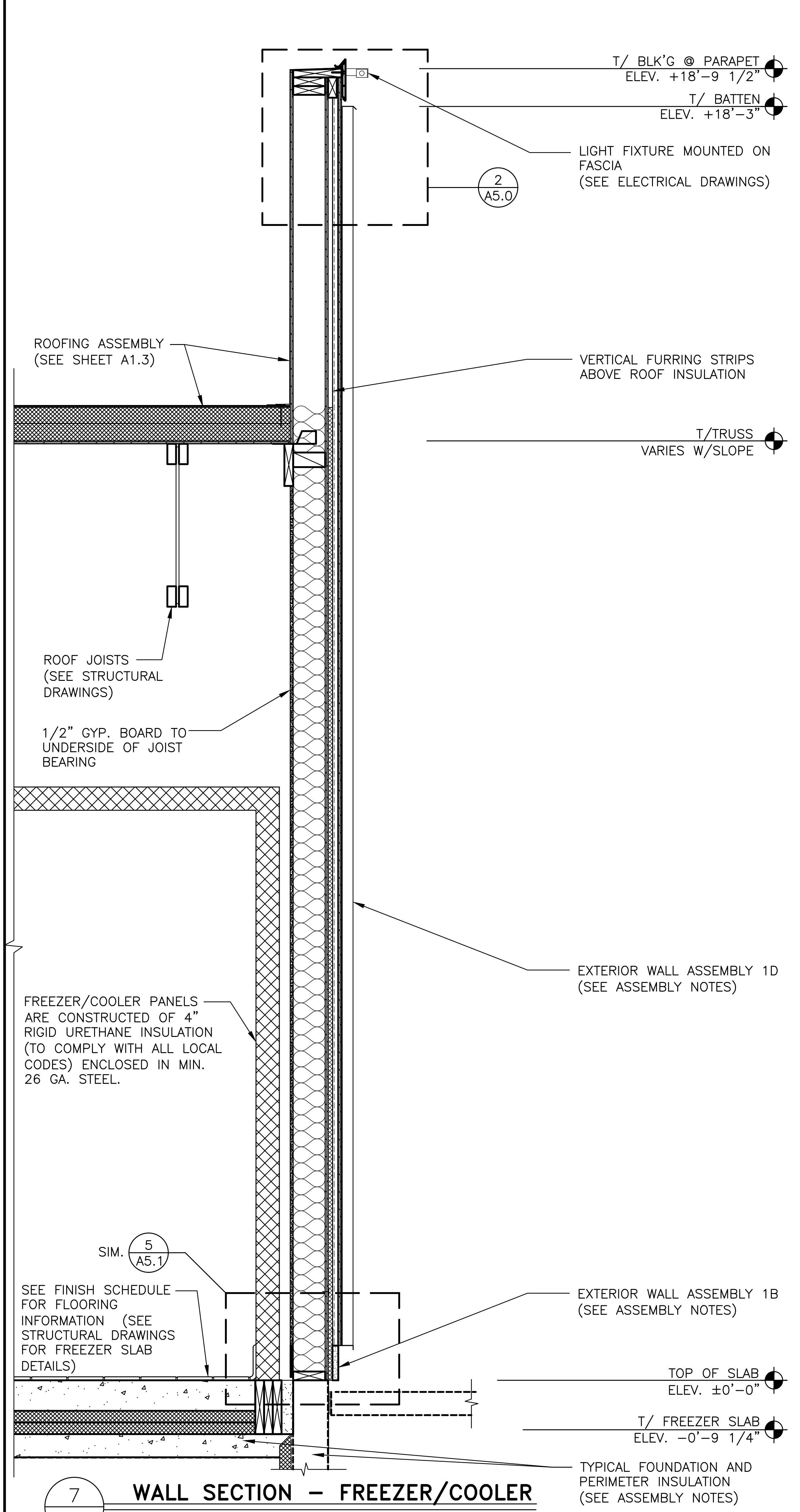
T/ BLK'G @ PARAPET ELEV. +18'-9 1/2"
1 A5.0 PAR.
ROOFING ASSEMBLY (SEE SHEET A1.3)
EXTERIOR WALL ASSEMBLY 1C (SEE ASSEMBLY NOTES)
T/TRUSS BEARING ELEV. +13'-4"
2X BLOCKING AT CANOPY
CANOPY SYSTEM
3 A5.0
ROOF JOISTS (SEE STRUCTURAL DRAWINGS)
B/CANOPY FRAMING ELEV. +10'-11"
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
CEILING AS SCHEDULED
T/WINDOW ELEV. +9'-4"
1/2" GYP. BOARD TO UNDERSIDE OF JOIST BEARING
STEEL BEAM (SEE STRUCTURAL DRAWINGS)
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
INTERIOR FURRING STRIP APPLICATION
MEMBRANE WALL FLASHING W/METAL DRIP EDGE
WOOD BLOCKING AT ALL DINING WINDOW HEADS
EXTERIOR WINDOW ASSEMBLY (SEE ASSEMBLY NOTES)
CONT. 2x TREATED WOOD BLOCKING
PAR. 3 A5.1
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
TILE OVER 1/2" CEMENT BOARD. SEE FINISH SCHEDULE FOR INFORMATION AND FLOOR PLAN FOR EXTENT
T/SILL ELEV. +2'-0"
FLOOR FINISH AS SCHEDULED
SIDEWALK (SEE CIVIL DRAWINGS)
TOP OF SLAB ELEV. ±0'-0"
TYPICAL FOUNDATION AND PERIMETER INSULATION (SEE ASSEMBLY NOTES)

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


T/ BLK'G @ PARAPET ELEV. +18'-9 1/2"
T/ BATTEN ELEV. +18'-3"
LIGHT FIXTURE MOUNTED ON FASCIA (SEE ELECTRICAL DRAWINGS)
2 A5.0
ROOFING ASSEMBLY (SEE SHEET A1.3)
VERTICAL FURRING STRIPS ABOVE ROOF INSULATION
T/TRUSS VARIES W/SLOPE
ROOF JOISTS (SEE STRUCTURAL DRAWINGS)
1/2" GYP. BOARD TO UNDERSIDE OF JOIST BEARING
EXTERIOR WALL ASSEMBLY 1D (SEE ASSEMBLY NOTES)
FREEZER/COOLER PANELS ARE CONSTRUCTED OF 4" RIGID URETHANE INSULATION (TO COMPLY WITH ALL LOCAL CODES) ENCLOSED IN MIN. 26 GA. STEEL.
SIM. 5 A5.1
SEE FINISH SCHEDULE FOR FLOORING INFORMATION (SEE STRUCTURAL DRAWINGS FOR FREEZER SLAB DETAILS)
EXTERIOR WALL ASSEMBLY 1B (SEE ASSEMBLY NOTES)
TOP OF SLAB ELEV. ±0'-0"
T/ FREEZER SLAB ELEV. -0'-9 1/4"
TYPICAL FOUNDATION AND PERIMETER INSULATION (SEE ASSEMBLY NOTES)

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. E.I.F.S. SYSTEM**

1. "OUTSULATION PLUS MD" BY DRYVIT SYSTEMS. DRAINAGE E.I.F.S. SYSTEM (NOT BARRIER) CONSISTING OF 1 1/2" INSULATION WITH FIBER REINFORCING MESH MECHANICALLY FASTENED. USE "PANZER 20 ULTRA-HIGH IMPACT MESH" IN AREAS BELOW 8'-0" IF APPLICABLE. FINISH: HYDROPHOBIC. TEXTURE: FINESSE. INSTALL PER LOCAL CODES AND MANUFACTURERS SPECIFICATIONS ON TERMINATION AND INSTALLATION DETAILS.
2. OVER WALL ASSEMBLY 1A

**1D. VERTICAL 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. 1" 0.125 ALUMINUM CHANNEL BY GC, INSTALL BY GC
4. OVER WALL ASSEMBLY 1A

VERTICAL BATTEN SYSTEM BY:

| | |
|---|---|
| B+N INDUSTRIES (650) 393-2347 | TUBELITE (214) 288-5801 |
| TALENE KAPEGHIAN | CHASITY DICKINSON |
| tkapeghian@bnind.com | mcdonalds@tubeliteinc.com |

**1E. CITADEL ACM PANEL**

1. 4MM CITADEL E2000 METAL PANEL KIT. SEE ELEVATIONS FOR COLOR. PROVIDE MFG. SHOP DRAWINGS TO ARCHITECT FOR REVIEW. Mcdonalds@metalera.com
2. 3/4" RIGID INSULATION, R-3.8 VALUE
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 OVER 1/2" PLYWOOD 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 = 0.36 U VALUE "DOOR"= 0.63 SHGC = 0.40

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 FOOTING TO TOP OF SLAB:
   - 2'-0" MIN. R-VALUE: R-15

4
A5.0
## ASSEMBLY NOTES

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|

WILLIAM SHEPPARD
NUMBER A-2024044882
ARCHITECT
11-14-2025

PREPARED BY:
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PREPARED FOR:
**McDonald's USA, LLC**
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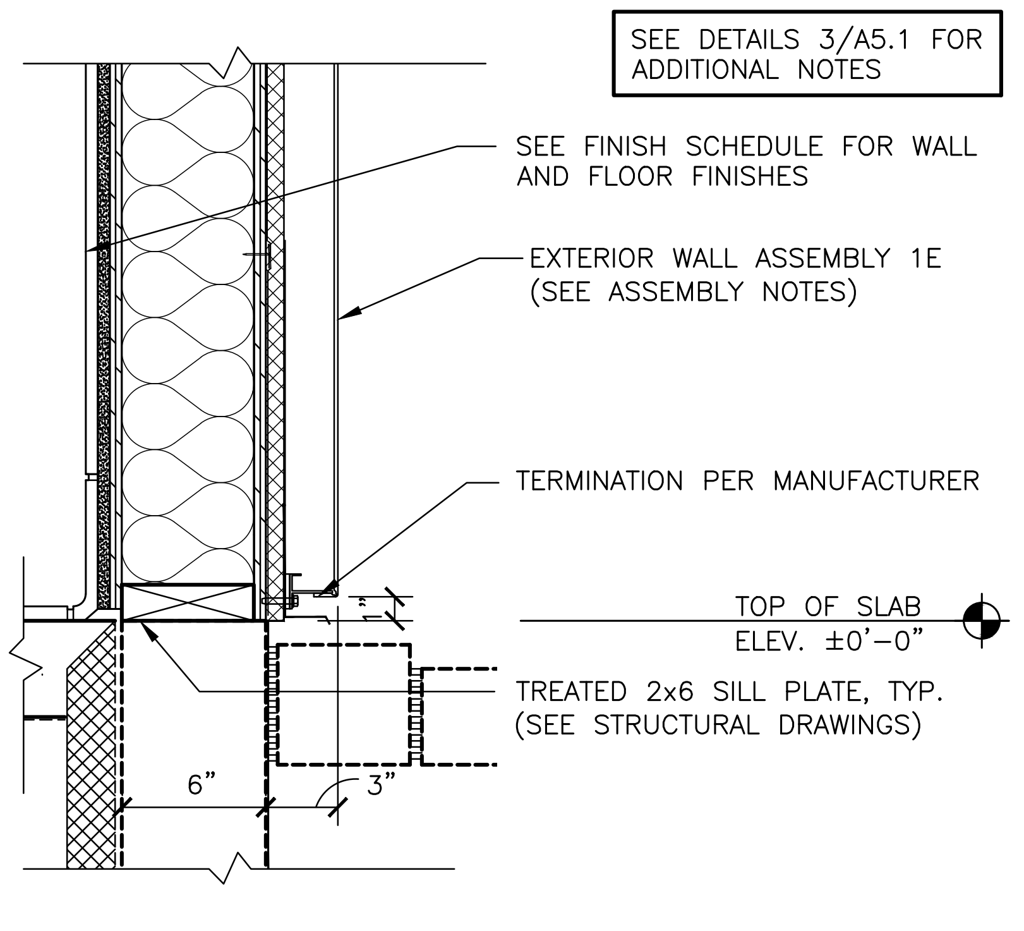
DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

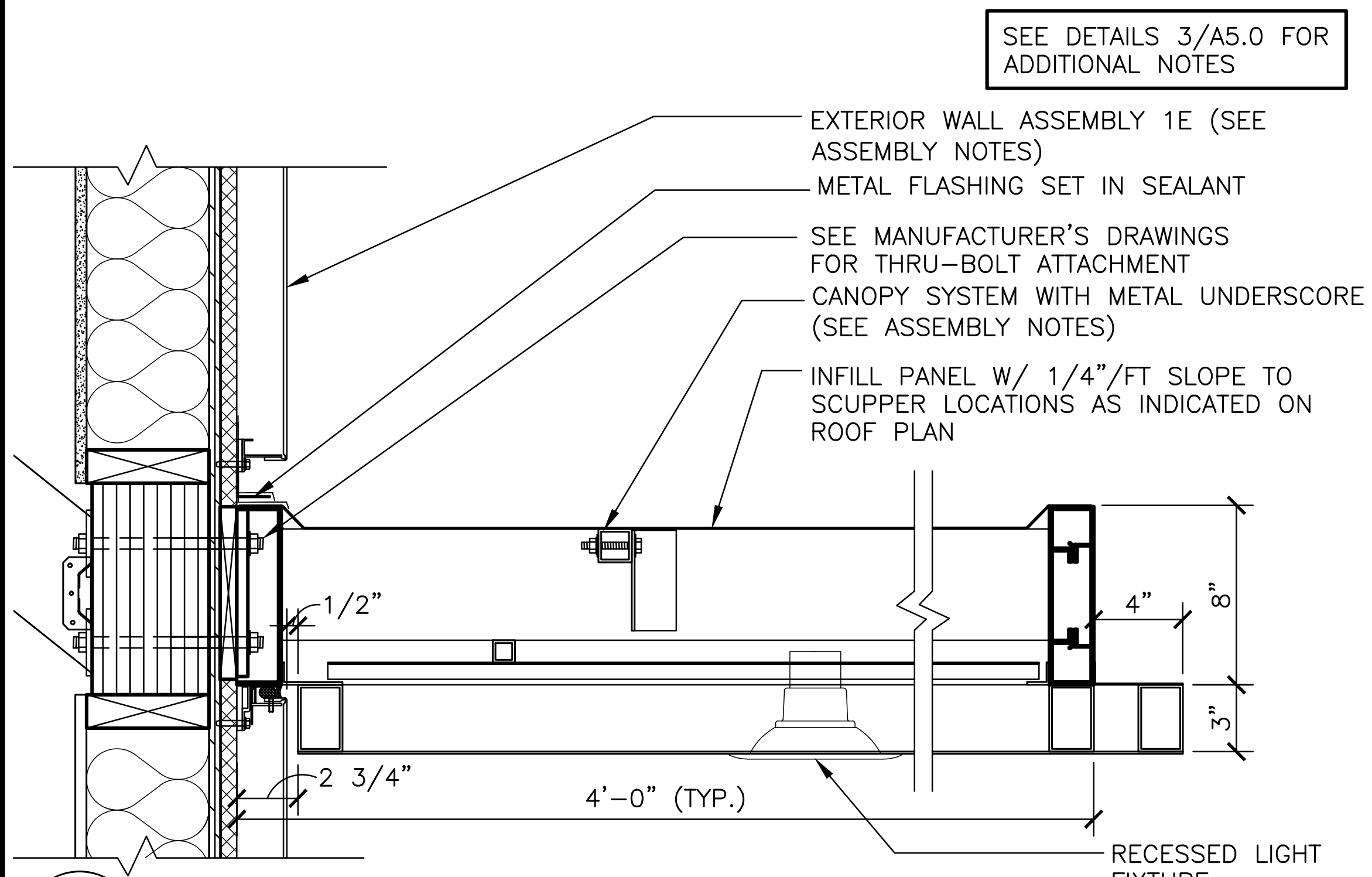
DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

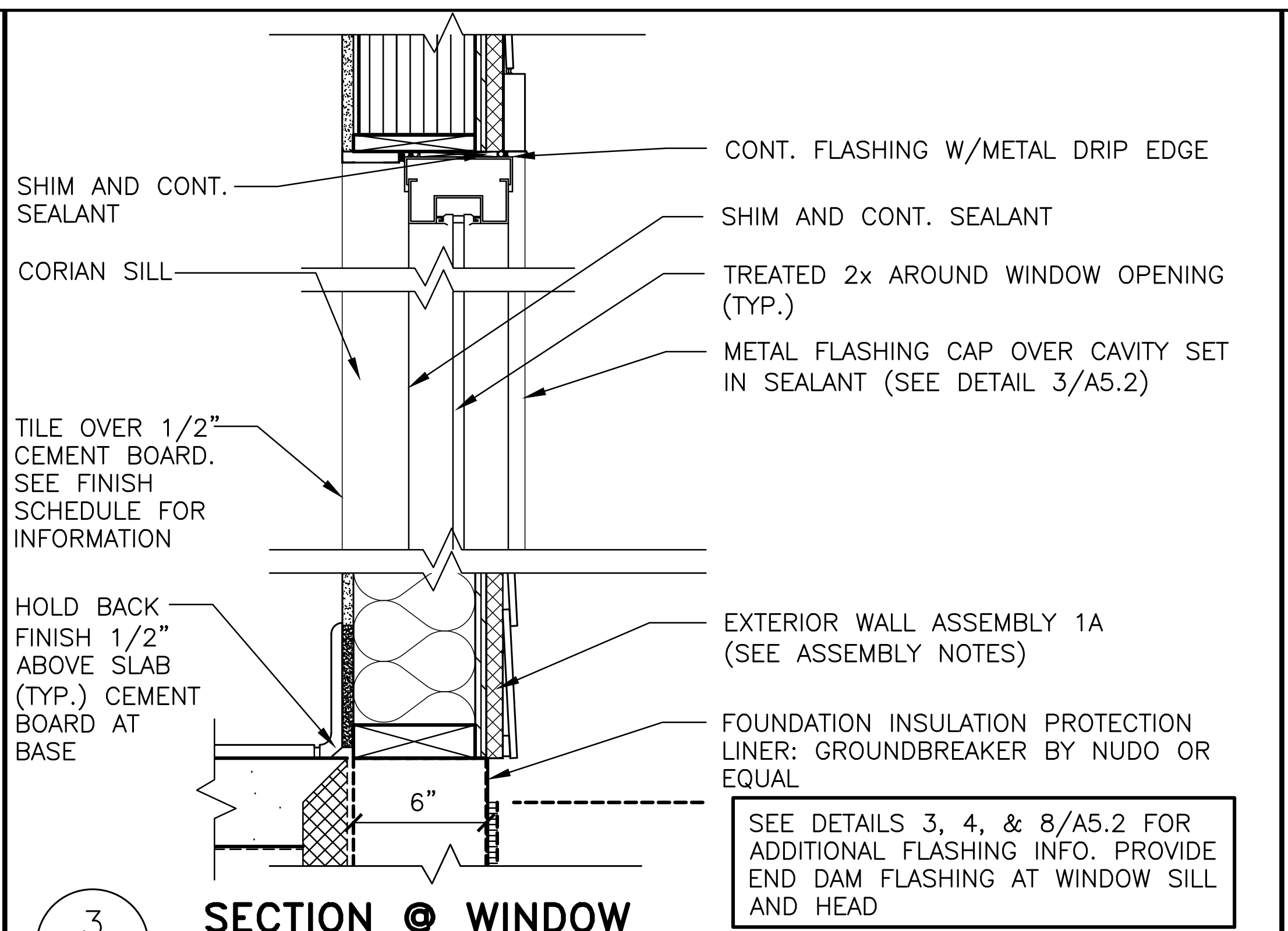
SHEET NO.
024-0281.00.0
A5.0
WALL SECTIONS


SEE DETAILS 3/A5.1 FOR ADDITIONAL NOTES
SEE FINISH SCHEDULE FOR WALL AND FLOOR FINISHES
EXTERIOR WALL ASSEMBLY 1E (SEE ASSEMBLY NOTES)
TERMINATION PER MANUFACTURER
TOP OF SLAB ELEV. ±0'-0"
TREATED 2x6 SILL PLATE, TYP. (SEE STRUCTURAL DRAWINGS)
6"
3"

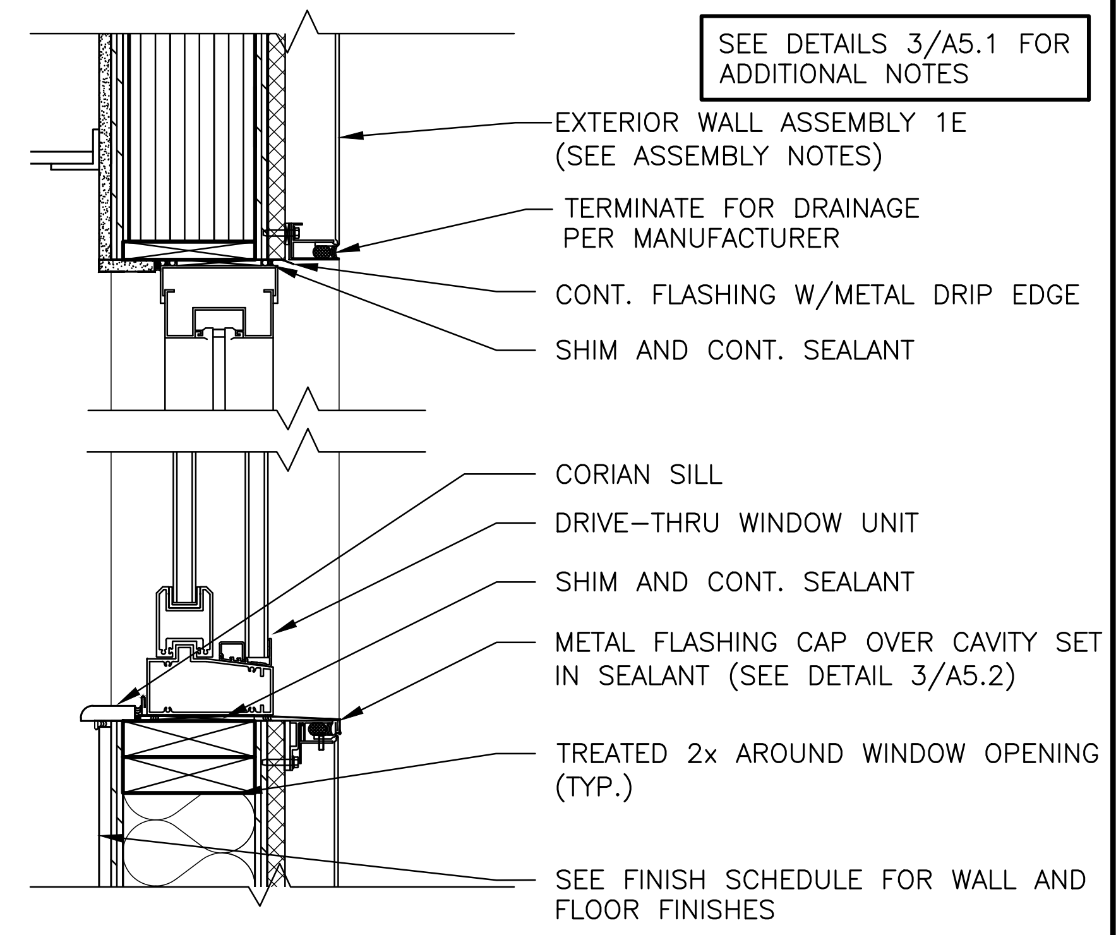
1 A5.1 **DETAIL– ALPOLIC TERMINATION**
1 1/2" = 1'-0"


SEE DETAILS 3/A5.0 FOR ADDITIONAL NOTES
EXTERIOR WALL ASSEMBLY 1E (SEE ASSEMBLY NOTES)
METAL FLASHING SET IN SEALANT
SEE MANUFACTURER'S DRAWINGS FOR THRU-BOLT ATTACHMENT
CANOPY SYSTEM WITH METAL UNDERSCORE (SEE ASSEMBLY NOTES)
INFILL PANEL W/ 1/4"/FT SLOPE TO SCUPPER LOCATIONS AS INDICATED ON ROOF PLAN
1/2"
4"
8"
3"
2 3/4"
4'-0" (TYP.)
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)

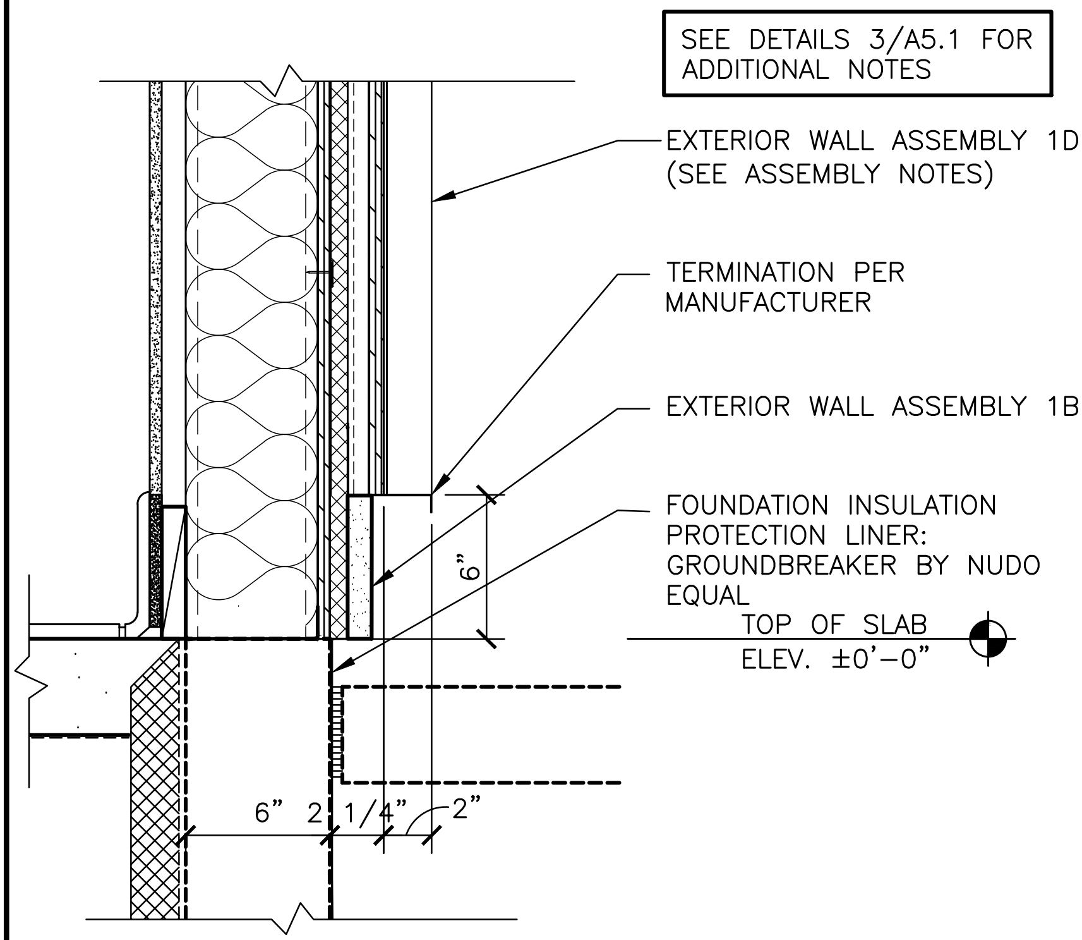
2 A5.1 **DETAIL– DRIVE THRU CANOPY SYSTEM**
1 1/2" = 1'-0"


SHIM AND CONT. SEALANT
CORIAN SILL
TILE OVER 1/2" CEMENT BOARD. SEE FINISH SCHEDULE FOR INFORMATION
HOLD BACK FINISH 1/2" ABOVE SLAB (TYP.) CEMENT BOARD AT BASE
6"
CONT. FLASHING W/METAL DRIP EDGE
SHIM AND CONT. SEALANT
TREATED 2x AROUND WINDOW OPENING (TYP.)
METAL FLASHING CAP OVER CAVITY SET IN SEALANT (SEE DETAIL 3/A5.2)
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
FOUNDATION INSULATION PROTECTION LINER: GROUNDBREAKER BY NUDO OR EQUAL
SEE DETAILS 3, 4, & 8/A5.2 FOR ADDITIONAL FLASHING INFO. PROVIDE END DAM FLASHING AT WINDOW SILL AND HEAD

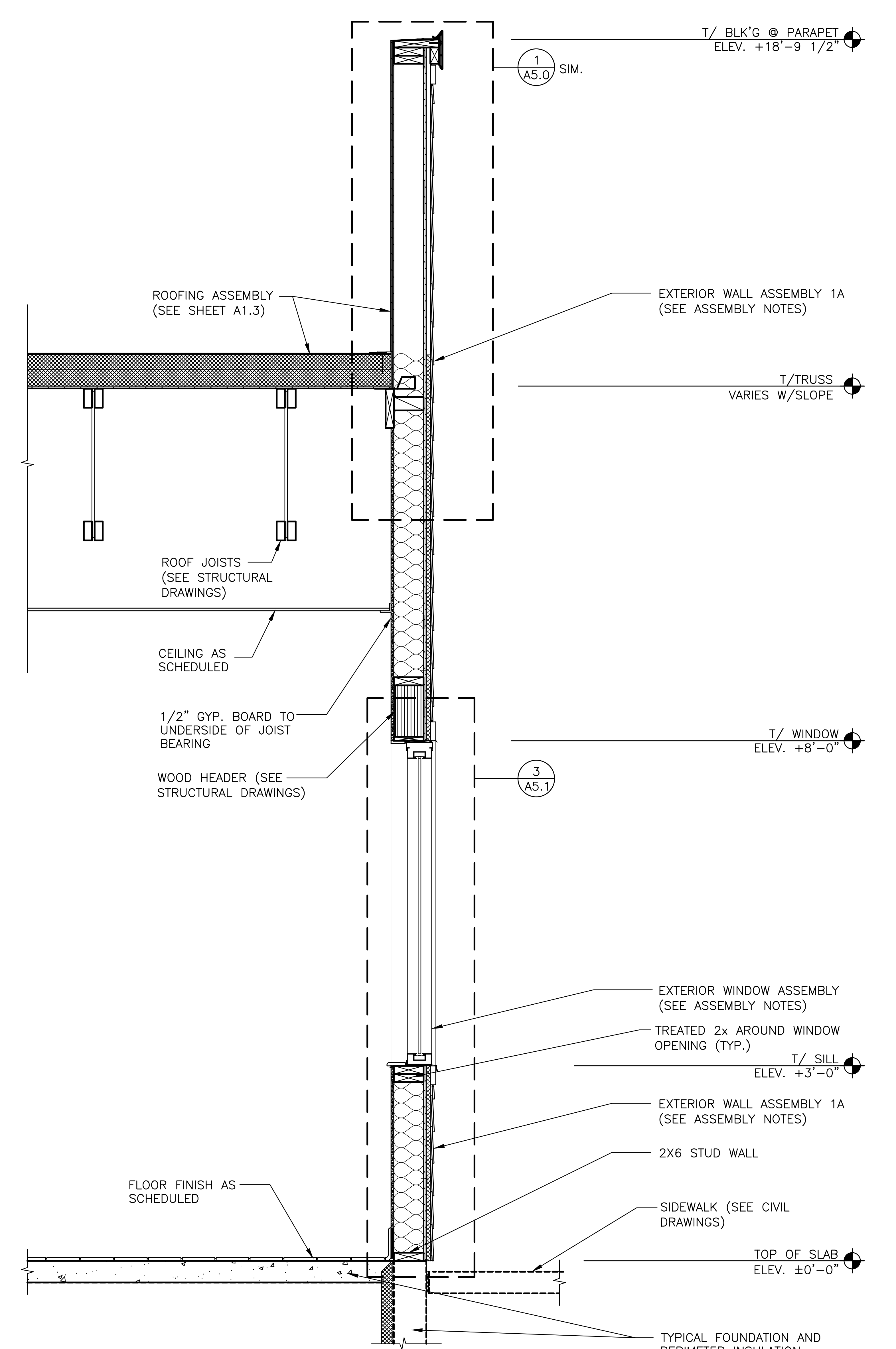
3 A5.1 **SECTION @ WINDOW**
1 1/2" = 1'-0"


SEE DETAILS 3/A5.1 FOR ADDITIONAL NOTES
EXTERIOR WALL ASSEMBLY 1E (SEE ASSEMBLY NOTES)
TERMINATE FOR DRAINAGE PER MANUFACTURER
CONT. FLASHING W/METAL DRIP EDGE
SHIM AND CONT. SEALANT
CORIAN SILL
DRIVE-THRU WINDOW UNIT
SHIM AND CONT. SEALANT
METAL FLASHING CAP OVER CAVITY SET IN SEALANT (SEE DETAIL 3/A5.2)
TREATED 2x AROUND WINDOW OPENING (TYP.)
SEE FINISH SCHEDULE FOR WALL AND FLOOR FINISHES

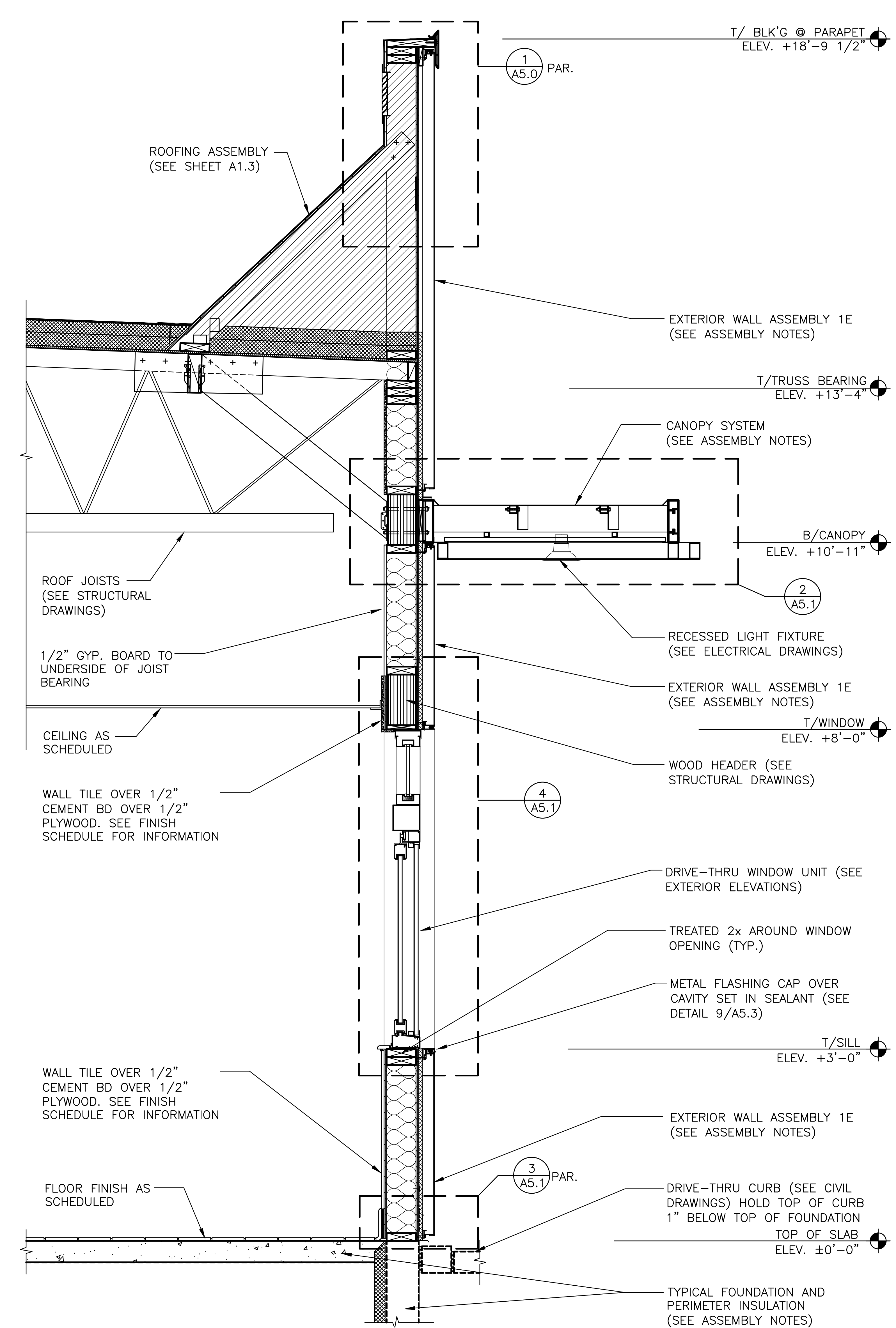
4 A5.1 **SECTION @ DRIVE-THRU WINDOW**
1 1/2" = 1'-0"


SEE DETAILS 3/A5.1 FOR ADDITIONAL NOTES
EXTERIOR WALL ASSEMBLY 1D (SEE ASSEMBLY NOTES)
TERMINATION PER MANUFACTURER
EXTERIOR WALL ASSEMBLY 1B
FOUNDATION INSULATION PROTECTION LINER: GROUNDBREAKER BY NUDO EQUAL
TOP OF SLAB ELEV. ±0'-0"
6"
6"
2 1/2"
2"

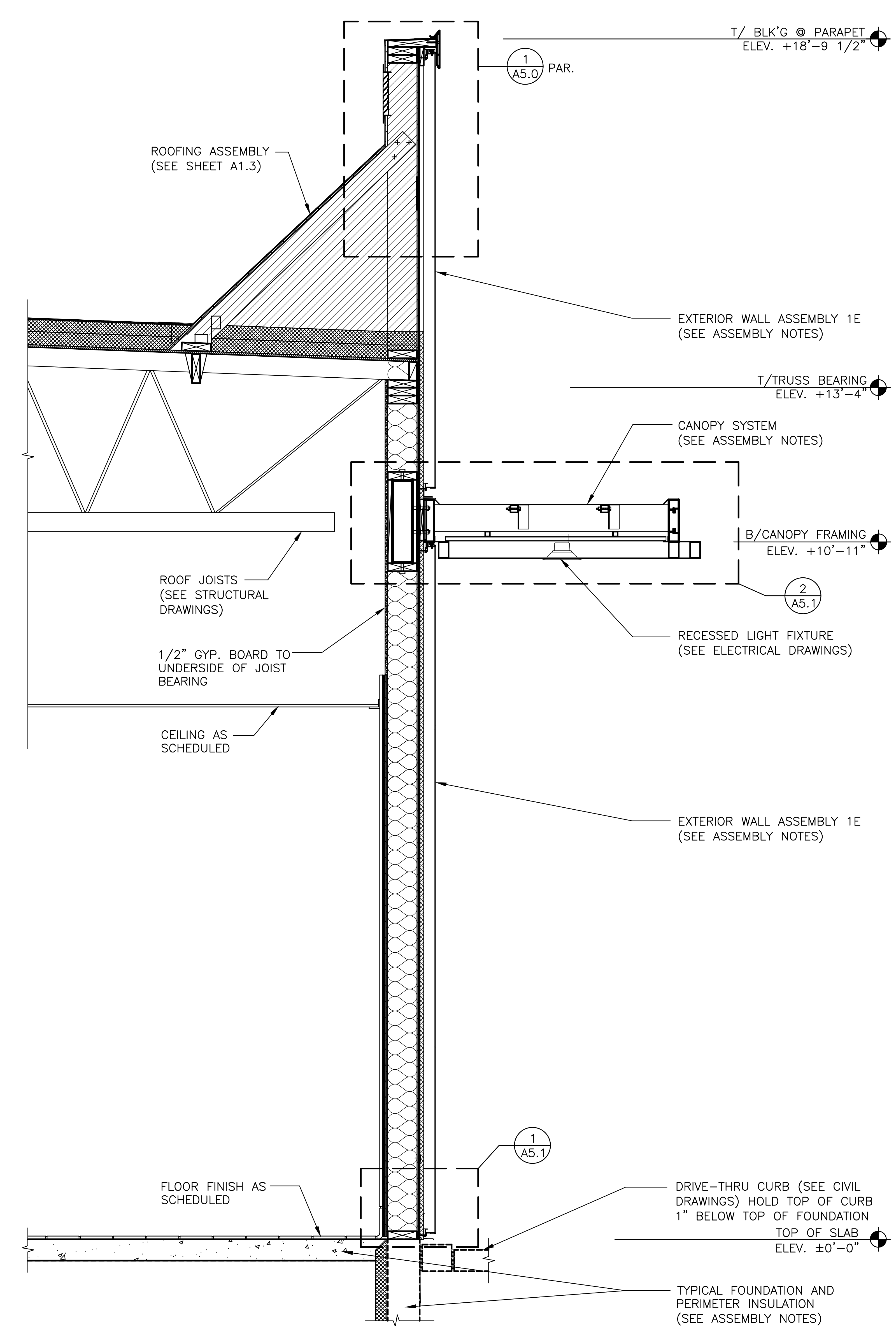
5 A5.1 **DETAIL– BATTEN TERMINATION**
1 1/2" = 1'-0"


1 A5.0 SIM.
T/ BLK'G @ PARAPET ELEV. +18'-9 1/2"
ROOFING ASSEMBLY (SEE SHEET A1.3)
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
T/TRUSS VARIES W/SLOPE
ROOF JOISTS (SEE STRUCTURAL DRAWINGS)
CEILING AS SCHEDULED
1/2" GYP. BOARD TO UNDERSIDE OF JOIST BEARING
WOOD HEADER (SEE STRUCTURAL DRAWINGS)
T/ WINDOW ELEV. +8'-0"
3 A5.1
EXTERIOR WINDOW ASSEMBLY (SEE ASSEMBLY NOTES)
TREATED 2x AROUND WINDOW OPENING (TYP.)
T/ SILL ELEV. +3'-0"
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
2X6 STUD WALL
FLOOR FINISH AS SCHEDULED
SIDEWALK (SEE CIVIL DRAWINGS)
TOP OF SLAB ELEV. ±0'-0"
TYPICAL FOUNDATION AND PERIMETER INSULATION (SEE ASSEMBLY NOTES)

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


1 A5.0 PAR.
T/ BLK'G @ PARAPET ELEV. +18'-9 1/2"
ROOFING ASSEMBLY (SEE SHEET A1.3)
EXTERIOR WALL ASSEMBLY 1E (SEE ASSEMBLY NOTES)
T/TRUSS BEARING ELEV. +13'-4"
CANOPY SYSTEM (SEE ASSEMBLY NOTES)
B/CANOPY ELEV. +10'-11"
2 A5.1
ROOF JOISTS (SEE STRUCTURAL DRAWINGS)
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
1/2" GYP. BOARD TO UNDERSIDE OF JOIST BEARING
EXTERIOR WALL ASSEMBLY 1E (SEE ASSEMBLY NOTES)
CEILING AS SCHEDULED
T/WINDOW ELEV. +8'-0"
WALL TILE OVER 1/2" CEMENT BD OVER 1/2" PLYWOOD. SEE FINISH SCHEDULE FOR INFORMATION
WOOD HEADER (SEE STRUCTURAL DRAWINGS)
4 A5.1
DRIVE-THRU WINDOW UNIT (SEE EXTERIOR ELEVATIONS)
TREATED 2x AROUND WINDOW OPENING (TYP.)
METAL FLASHING CAP OVER CAVITY SET IN SEALANT (SEE DETAIL 9/A5.3)
T/SILL ELEV. +3'-0"
WALL TILE OVER 1/2" CEMENT BD OVER 1/2" PLYWOOD. SEE FINISH SCHEDULE FOR INFORMATION
EXTERIOR WALL ASSEMBLY 1E (SEE ASSEMBLY NOTES)
3 A5.1 PAR.
FLOOR FINISH AS SCHEDULED
DRIVE-THRU CURB (SEE CIVIL DRAWINGS) HOLD TOP OF CURB 1" BELOW TOP OF FOUNDATION
TOP OF SLAB ELEV. ±0'-0"
TYPICAL FOUNDATION AND PERIMETER INSULATION (SEE ASSEMBLY NOTES)

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


1 A5.0 PAR.
T/ BLK'G @ PARAPET ELEV. +18'-9 1/2"
ROOFING ASSEMBLY (SEE SHEET A1.3)
EXTERIOR WALL ASSEMBLY 1E (SEE ASSEMBLY NOTES)
T/TRUSS BEARING ELEV. +13'-4"
CANOPY SYSTEM (SEE ASSEMBLY NOTES)
B/CANOPY FRAMING ELEV. +10'-11"
2 A5.1
ROOF JOISTS (SEE STRUCTURAL DRAWINGS)
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
1/2" GYP. BOARD TO UNDERSIDE OF JOIST BEARING
CEILING AS SCHEDULED
EXTERIOR WALL ASSEMBLY 1E (SEE ASSEMBLY NOTES)
1 A5.1
FLOOR FINISH AS SCHEDULED
DRIVE-THRU CURB (SEE CIVIL DRAWINGS) HOLD TOP OF CURB 1" BELOW TOP OF FOUNDATION
TOP OF SLAB ELEV. ±0'-0"
TYPICAL FOUNDATION AND PERIMETER INSULATION (SEE ASSEMBLY NOTES)

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

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:
William C Sheppard
ARCHITECT
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PREPARED FOR:
McDonald's USA, LLC
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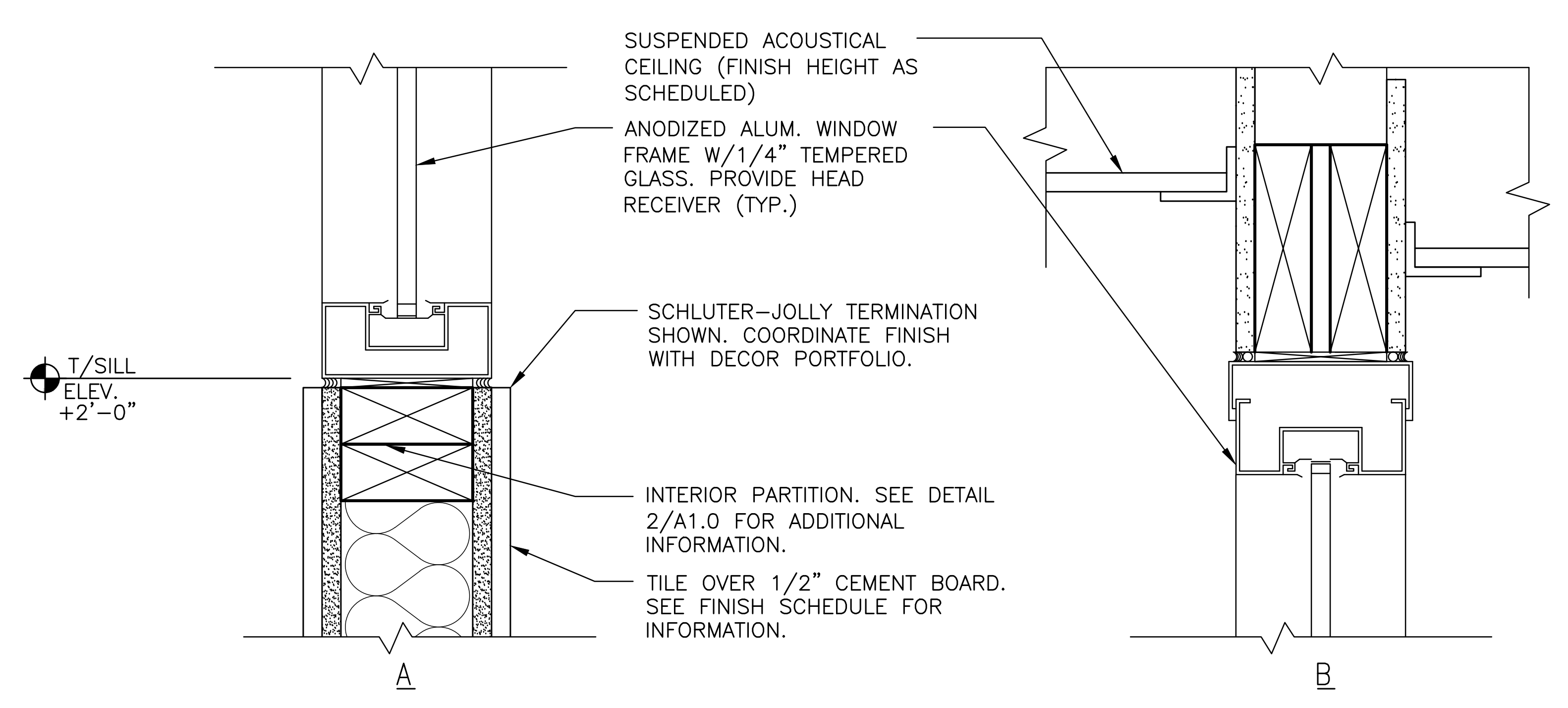
DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

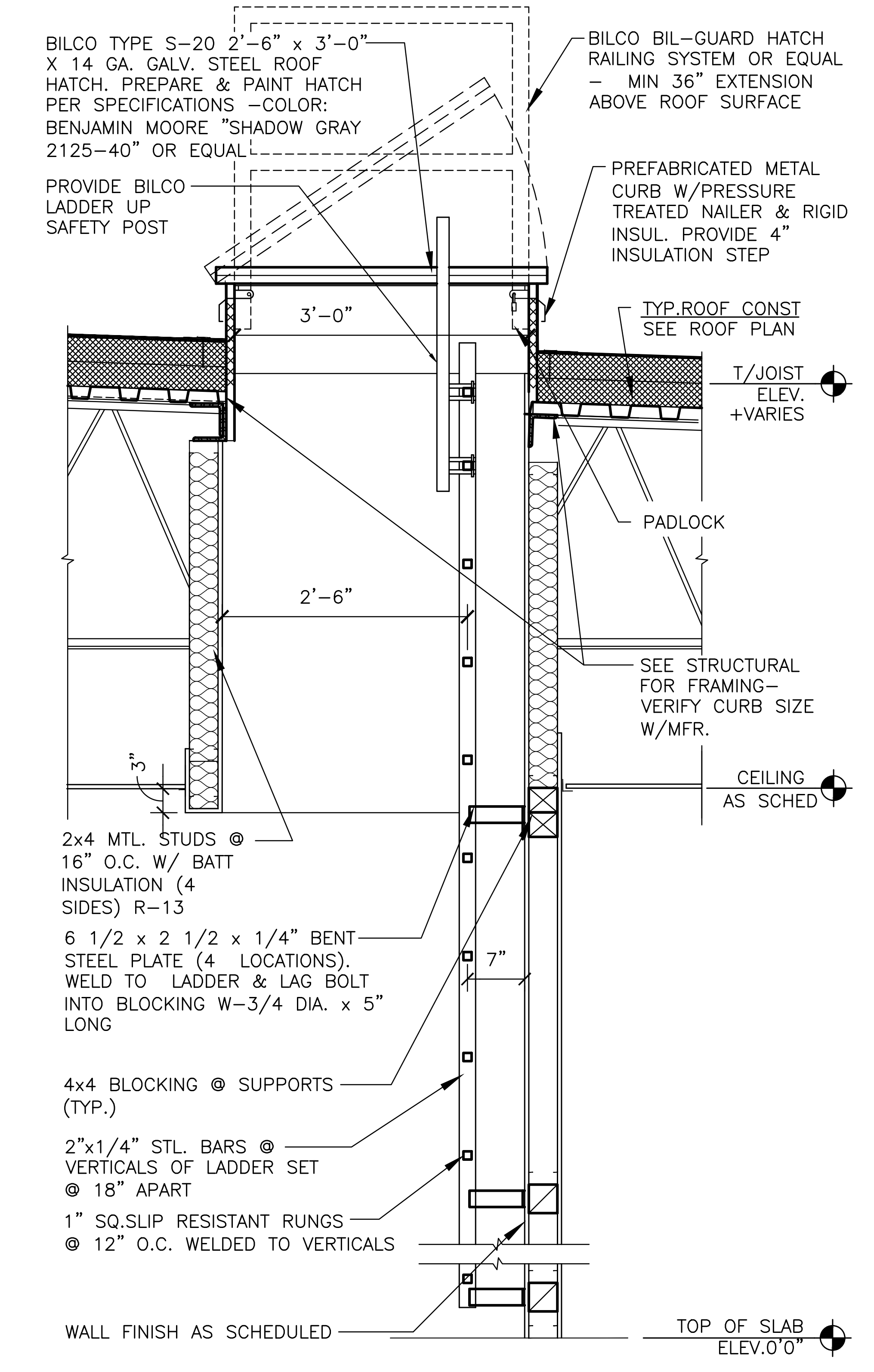
NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
A5.1
WALL SECTIONS


SUSPENDED ACOUSTICAL CEILING (FINISH HEIGHT AS SCHEDULED)
ANODIZED ALUM. WINDOW FRAME W/1/4" TEMPERED GLASS. PROVIDE HEAD RECEIVER (TYP.)
T/SILL ELEV. +2'-0"
SCHLUTER-JOLLY TERMINATION SHOWN. COORDINATE FINISH WITH DECOR PORTFOLIO.
INTERIOR PARTITION. SEE DETAIL 2/A1.0 FOR ADDITIONAL INFORMATION.
TILE OVER 1/2" CEMENT BOARD. SEE FINISH SCHEDULE FOR INFORMATION.
A
B

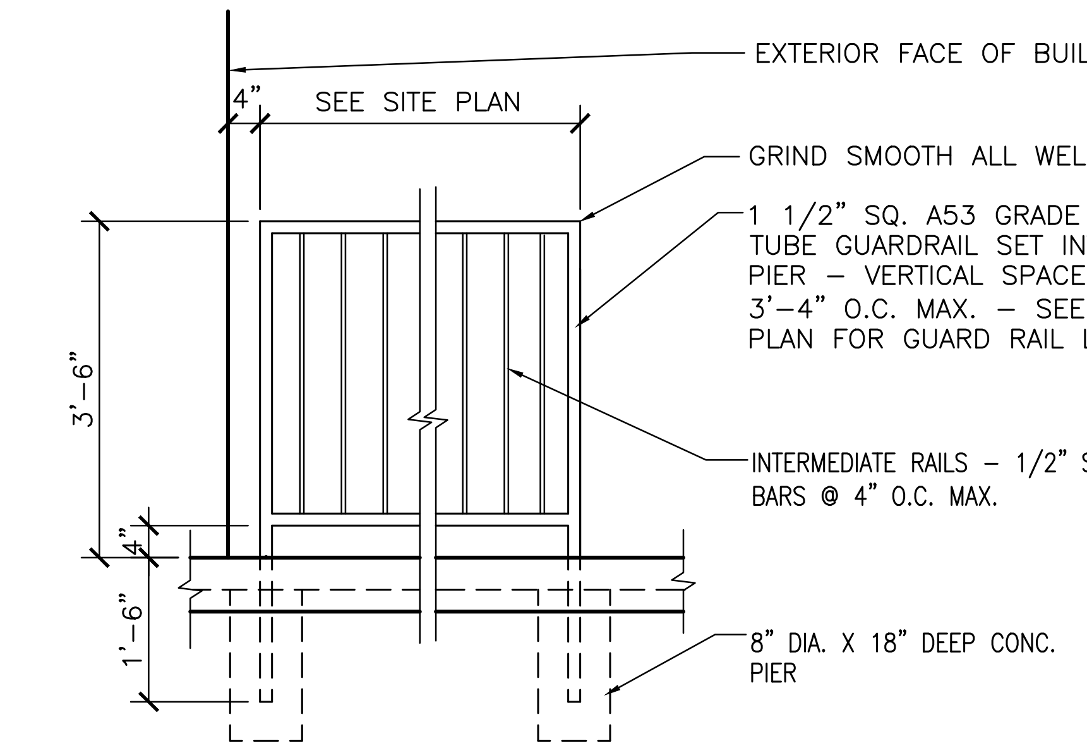
## 2 A5.2 HEAD & SILL INTERIOR VESTIBULE WALL

3" = 1'-0"


BILCO TYPE S-20 2'-6" x 3'-0" X 14 GA. GALV. STEEL ROOF HATCH. PREPARE & PAINT HATCH PER SPECIFICATIONS -COLOR: BENJAMIN MOORE "SHADOW GRAY 2125-40" OR EQUAL
BILCO BIL-GUARD HATCH RAILING SYSTEM OR EQUAL - MIN 36" EXTENSION ABOVE ROOF SURFACE
PROVIDE BILCO LADDER UP SAFETY POST
PREFABRICATED METAL CURB W/PRESSURE TREATED NAILER & RIGID INSUL. PROVIDE 4" INSULATION STEP
3'-0"
TYP.ROOF CONST SEE ROOF PLAN
T/JOIST ELEV. +VARIES
PADLOCK
2'-6"
SEE STRUCTURAL FOR FRAMING- VERIFY CURB SIZE W/MFR.
3"
CEILING AS SCHED
2x4 MTL. STUDS @ 16" O.C. W/ BATT INSULATION (4 SIDES) R-13
6 1/2 x 2 1/2 x 1/4" BENT STEEL PLATE (4 LOCATIONS). WELD TO LADDER & LAG BOLT INTO BLOCKING W-3/4 DIA. x 5" LONG
7"
4x4 BLOCKING @ SUPPORTS (TYP.)
2"x1/4" STL. BARS @ VERTICALS OF LADDER SET @ 18" APART
1" SQ.SLIP RESISTANT RUNGS @ 12" O.C. WELDED TO VERTICALS
WALL FINISH AS SCHEDULED
TOP OF SLAB ELEV.0'0"

## 10 A5.2 SECTION @ INTERIOR LADDER

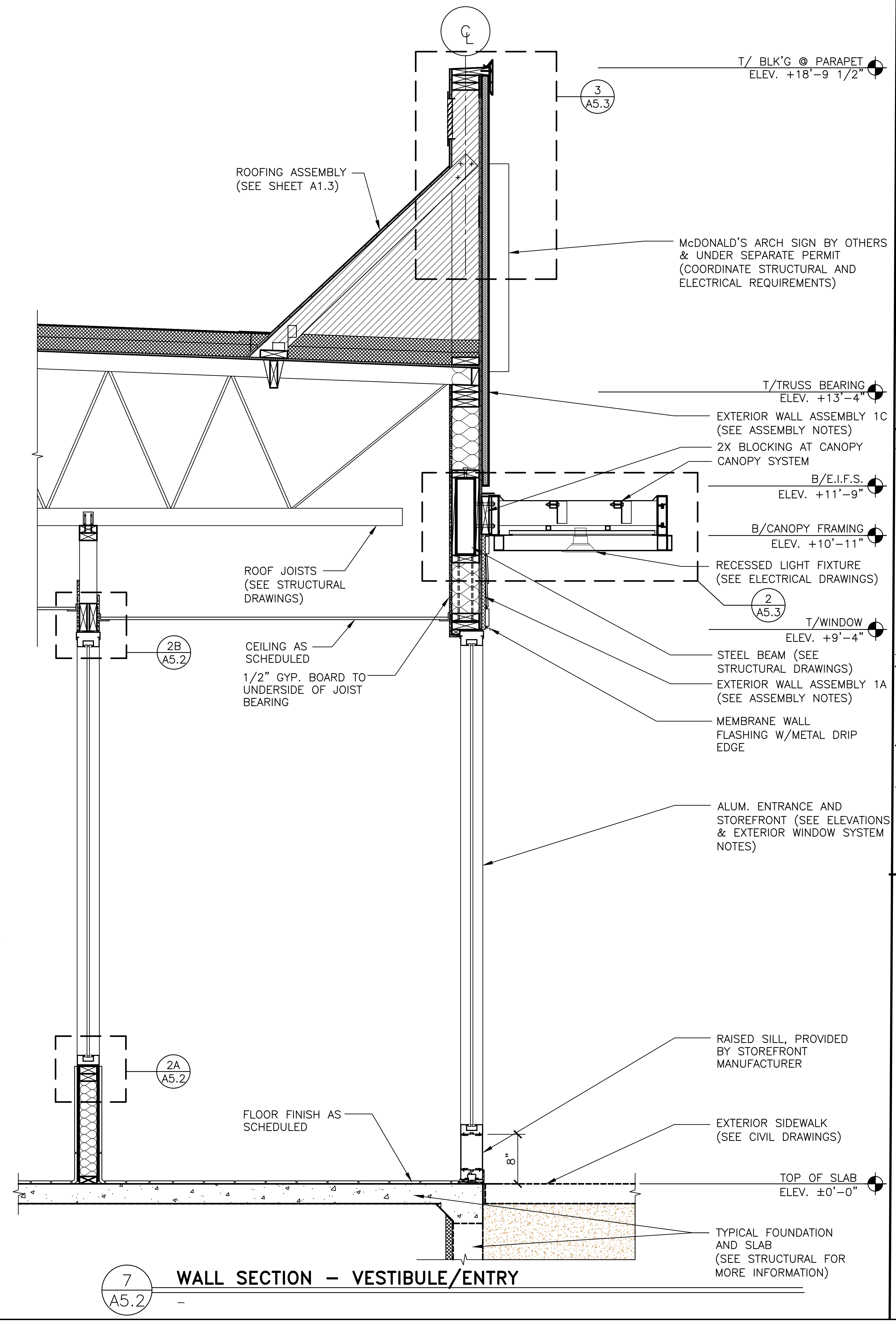
3/4" = 1'-0"


EXTERIOR FACE OF BUILDING
4"
SEE SITE PLAN
GRIND SMOOTH ALL WELDS
1 1/2" SQ. A53 GRADE B STEEL TUBE GUARDRAIL SET INTO CONC. PIER - VERTICAL SPACED AT 3'-4" O.C. MAX. - SEE SITE PLAN FOR GUARD RAIL LENGTH
3'-6"
INTERMEDIATE RAILS - 1/2" SQ. STL. BARS @ 4" O.C. MAX.
1'-6"
8" DIA. X 18" DEEP CONC. PIER

NOTE: PREPARE & PAINT METAL RAIL PER SPECIFICATIONS

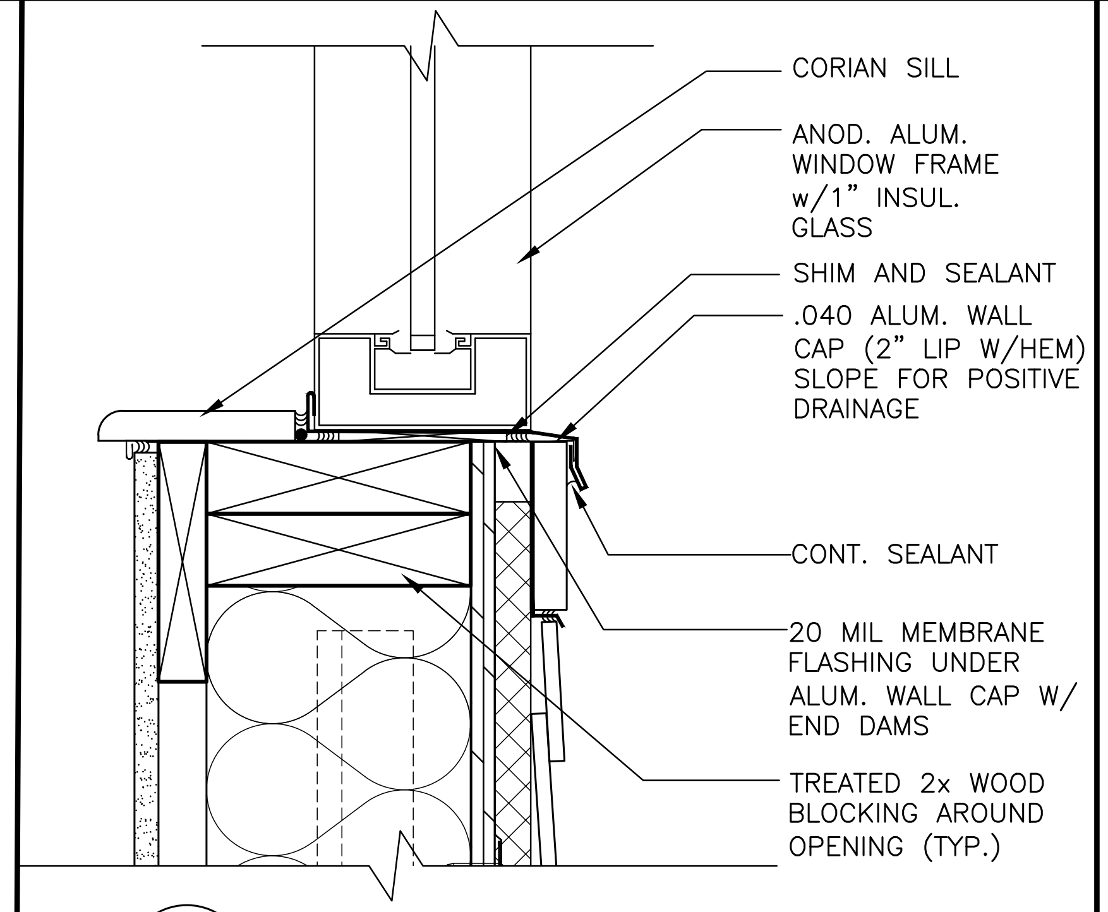
## 11 A5.2 GUARD RAIL DETAIL

1/2" = 1'-0"


C/L
T/ BLK'G @ PARAPET ELEV. +18'-9 1/2"
3 A5.3
ROOFING ASSEMBLY (SEE SHEET A1.3)
McDONALD'S ARCH SIGN BY OTHERS & UNDER SEPARATE PERMIT (COORDINATE STRUCTURAL AND ELECTRICAL REQUIREMENTS)
T/TRUSS BEARING ELEV. +13'-4"
EXTERIOR WALL ASSEMBLY 1C (SEE ASSEMBLY NOTES)
2X BLOCKING AT CANOPY
CANOPY SYSTEM
B/E.I.F.S. ELEV. +11'-9"
B/CANOPY FRAMING ELEV. +10'-11"
ROOF JOISTS (SEE STRUCTURAL DRAWINGS)
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
2 A5.3
T/WINDOW ELEV. +9'-4"
2B A5.2
CEILING AS SCHEDULED
1/2" GYP. BOARD TO UNDERSIDE OF JOIST BEARING
STEEL BEAM (SEE STRUCTURAL DRAWINGS)
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
MEMBRANE WALL FLASHING W/METAL DRIP EDGE
ALUM. ENTRANCE AND STOREFRONT (SEE ELEVATIONS & EXTERIOR WINDOW SYSTEM NOTES)
2A A5.2
RAISED SILL, PROVIDED BY STOREFRONT MANUFACTURER
FLOOR FINISH AS SCHEDULED
EXTERIOR SIDEWALK (SEE CIVIL DRAWINGS)
8"
TOP OF SLAB ELEV. ±0'-0"
TYPICAL FOUNDATION AND SLAB (SEE STRUCTURAL FOR MORE INFORMATION)

## 7 A5.2 WALL SECTION - VESTIBULE/ENTRY

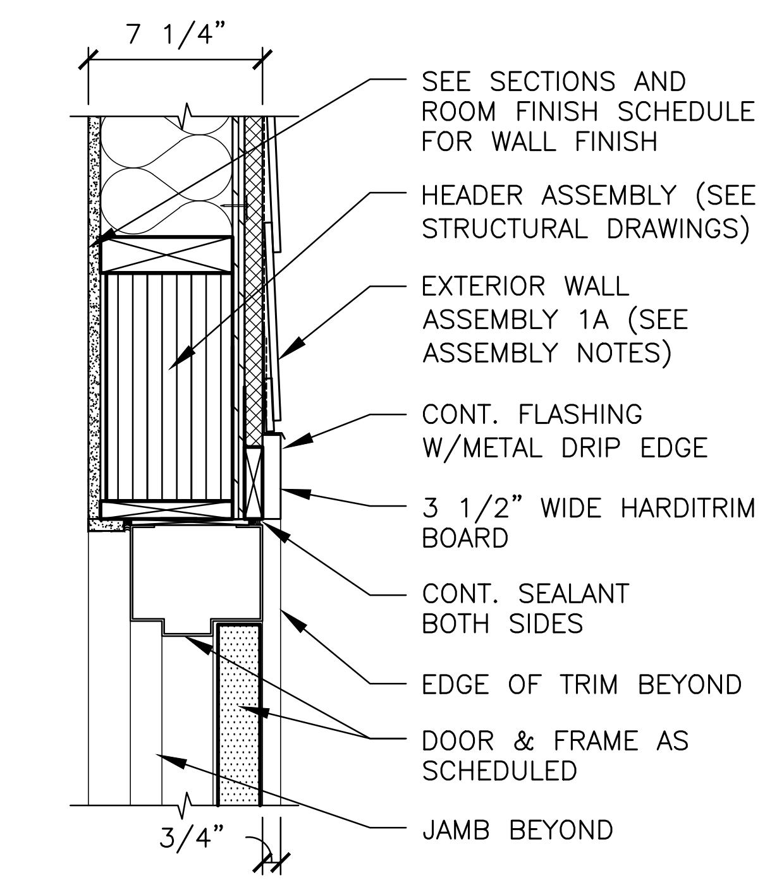
-


CORIAN SILL
ANOD. ALUM. WINDOW FRAME w/1" INSUL. GLASS
SHIM AND SEALANT
.040 ALUM. WALL CAP (2" LIP W/HEM) SLOPE FOR POSITIVE DRAINAGE
CONT. SEALANT
20 MIL MEMBRANE FLASHING UNDER ALUM. WALL CAP W/ END DAMS
TREATED 2x WOOD BLOCKING AROUND OPENING (TYP.)

## 3 A5.2 WINDOW SILL FLASHING

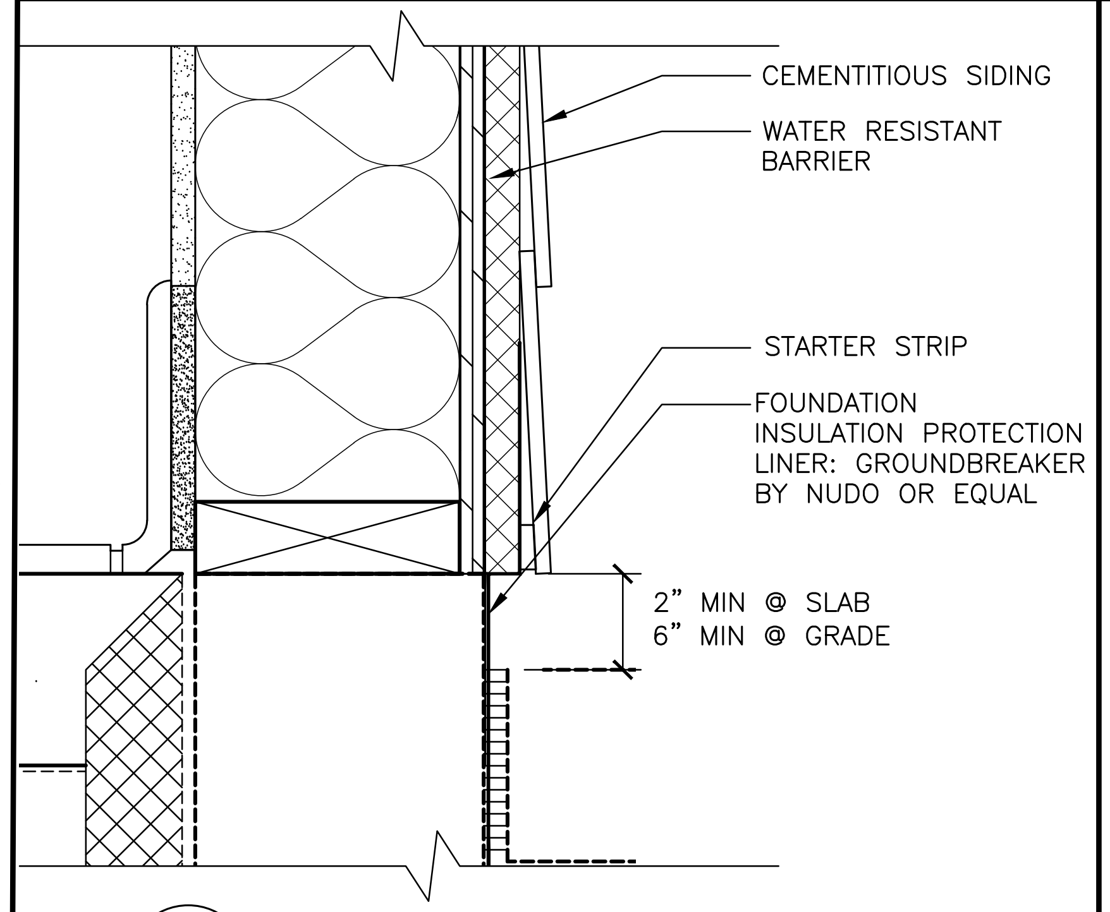
3" = 1'-0"

-


7 1/4"
SEE SECTIONS AND ROOM FINISH SCHEDULE FOR WALL FINISH
HEADER ASSEMBLY (SEE STRUCTURAL DRAWINGS)
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
CONT. FLASHING W/METAL DRIP EDGE
3 1/2" WIDE HARDITRIM BOARD
CONT. SEALANT BOTH SIDES
EDGE OF TRIM BEYOND
DOOR & FRAME AS SCHEDULED
JAMB BEYOND
3/4"

## 5 A5.2 SECTION @ DOOR HEAD

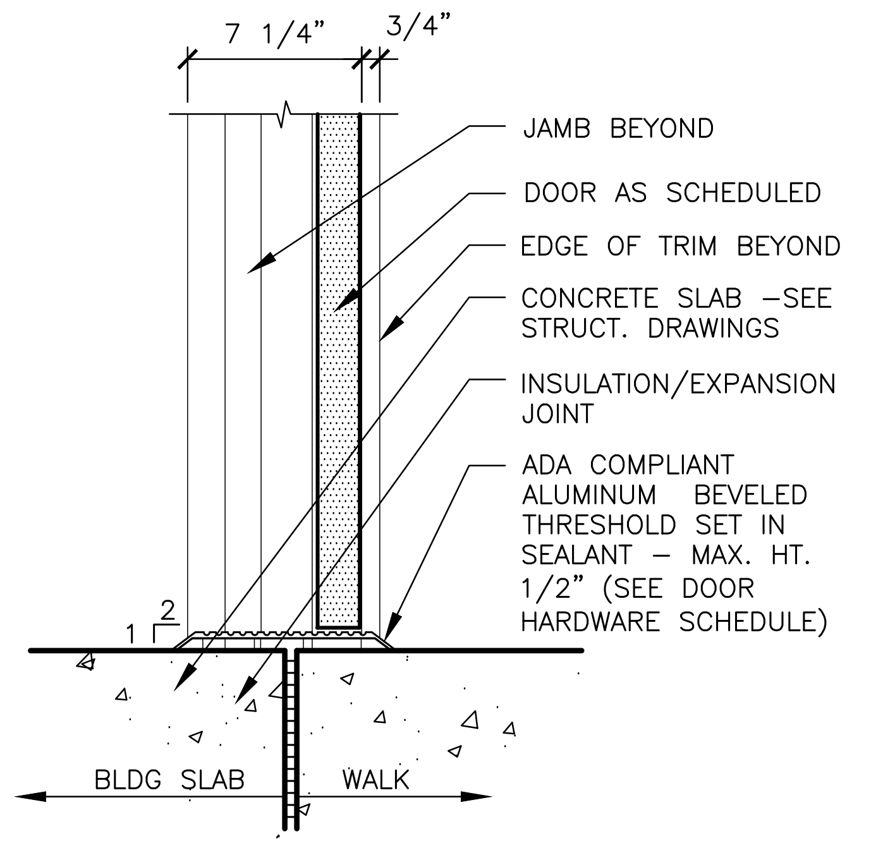
1 1/2" = 1'-0"



## 4 A5.2 FLASHING DETAIL @ FOUNDATION

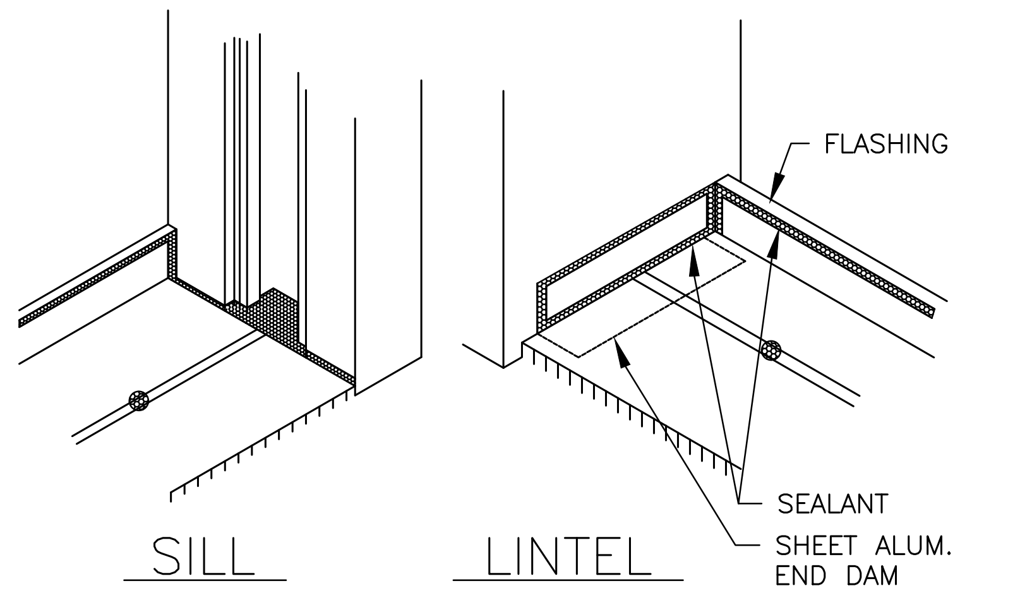
3" = 1'-0"

-


7 1/4"
3/4"
JAMB BEYOND
DOOR AS SCHEDULED
EDGE OF TRIM BEYOND
CONCRETE SLAB -SEE STRUCT. DRAWINGS
INSULATION/EXPANSION JOINT
ADA COMPLIANT ALUMINUM BEVELED THRESHOLD SET IN SEALANT - MAX. HT. 1/2" (SEE DOOR HARDWARE SCHEDULE)
1
2
BLDG SLAB
WALK

## 6 A5.2 SECTION @ DOOR SILL

1 1/2" = 1'-0"



NOTE: SEAL GLASS POCKET OF WINDOW JAMB AT SILL.

NOTE: SEAL OVER HEADS OF ALL PERIMETER OPENINGS.

NOTE: SEALANT ON BACK LEG OF FLASHING TO BE APPLIED PRIOR TO INSTALLATION OF FRAME.

## 8 A5.2 FLASHING DETAIL @ JAMB

N.T.S.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|

11-14-2025

PREPARED BY:
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A R C H I T E C T
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PHONE 501-624-5679

PREPARED FOR:
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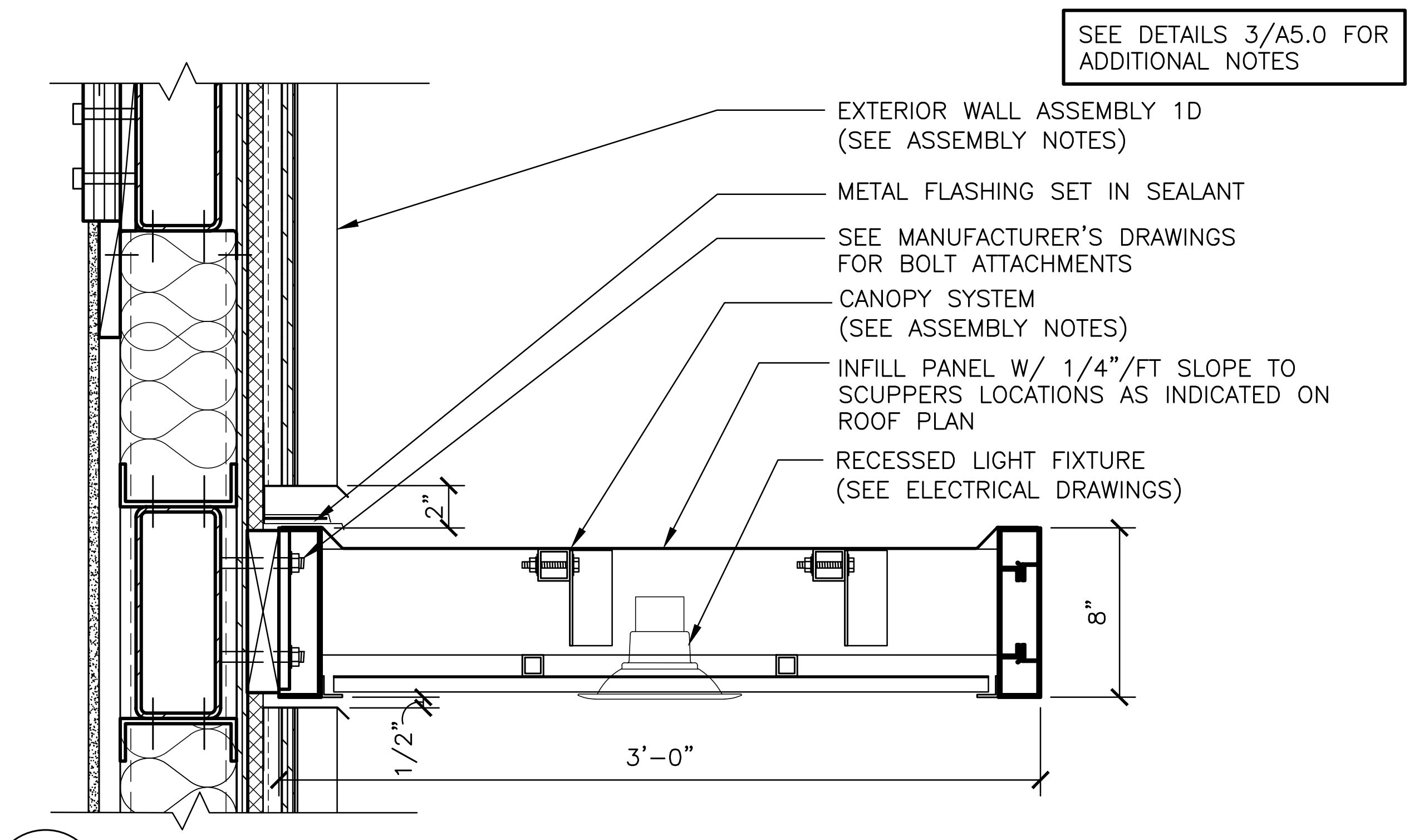
DRAWN BY SO
STD ISSUE DATE 2025 05
REVIEWED BY CS
DATE ISSUED 10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

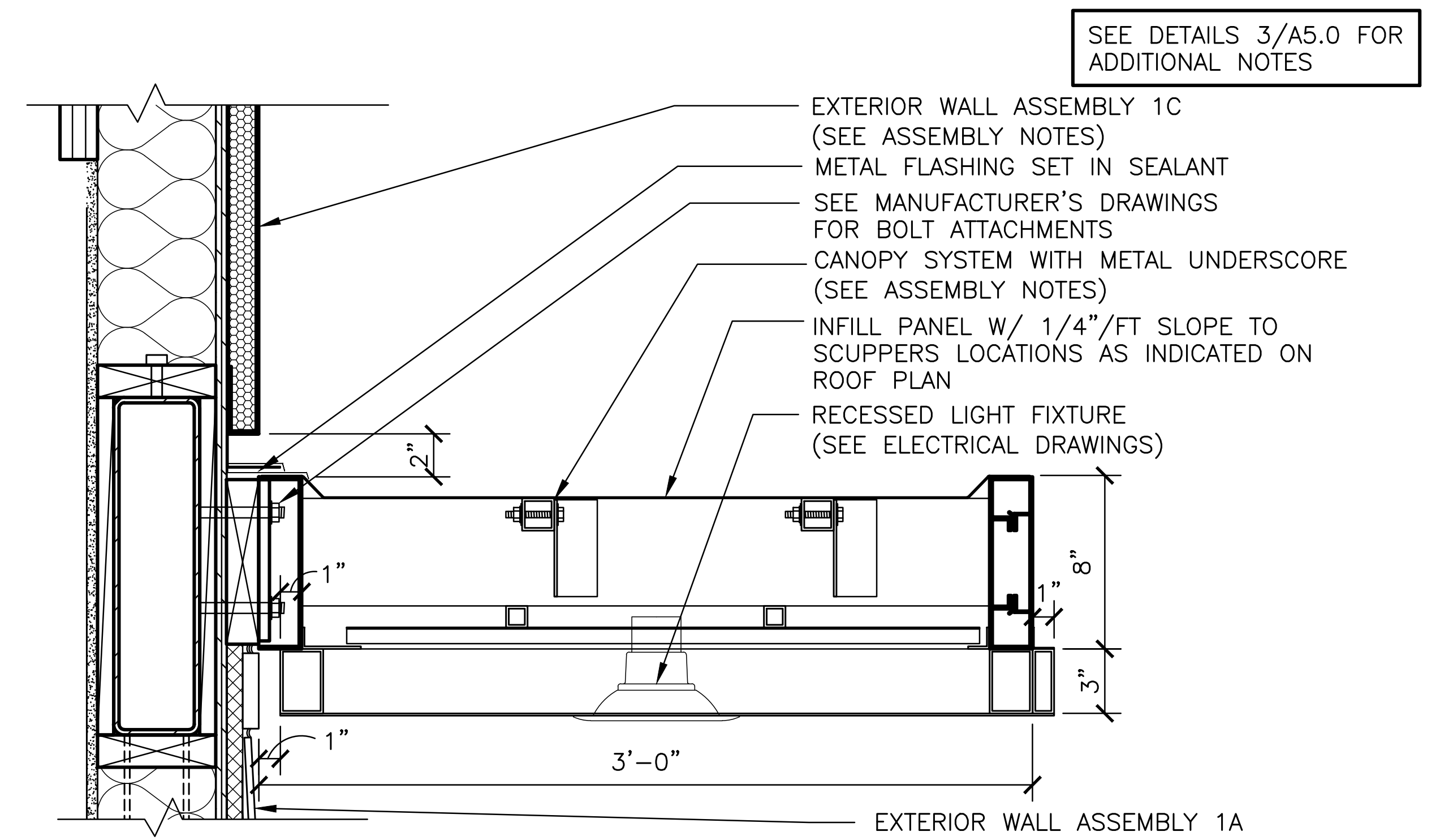
NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
A5.2
WALL SECTIONS


SEE DETAILS 3/A5.0 FOR ADDITIONAL NOTES
EXTERIOR WALL ASSEMBLY 1D (SEE ASSEMBLY NOTES)
METAL FLASHING SET IN SEALANT
SEE MANUFACTURER'S DRAWINGS FOR BOLT ATTACHMENTS
CANOPY SYSTEM (SEE ASSEMBLY NOTES)
INFILL PANEL W/ 1/4"/FT SLOPE TO SCUPPERS LOCATIONS AS INDICATED ON ROOF PLAN
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
2"
8"
1/2"
3'–0"

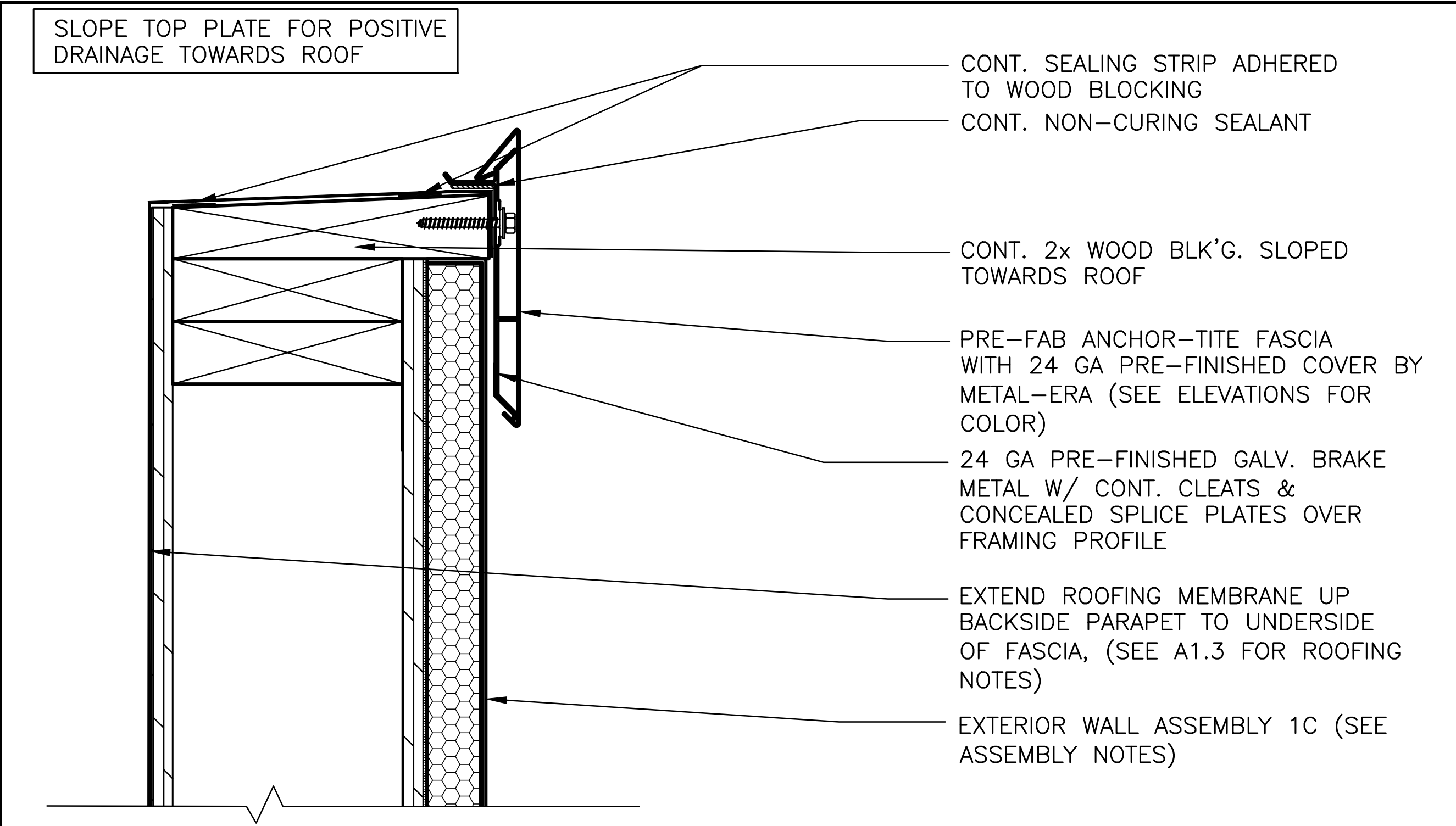
1 A5.3 **DETAIL– CANOPY @ BATTENS**

1 1/2" = 1'–0"


SEE DETAILS 3/A5.0 FOR ADDITIONAL NOTES
EXTERIOR WALL ASSEMBLY 1C (SEE ASSEMBLY NOTES)
METAL FLASHING SET IN SEALANT
SEE MANUFACTURER'S DRAWINGS FOR BOLT ATTACHMENTS
CANOPY SYSTEM WITH METAL UNDERSCORE (SEE ASSEMBLY NOTES)
INFILL PANEL W/ 1/4"/FT SLOPE TO SCUPPERS LOCATIONS AS INDICATED ON ROOF PLAN
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
2"
1"
8"
3"
1"
3'–0"

2 A5.3 **DETAIL– CANOPY ABOVE ENTRY**

1 1/2" = 1'–0"

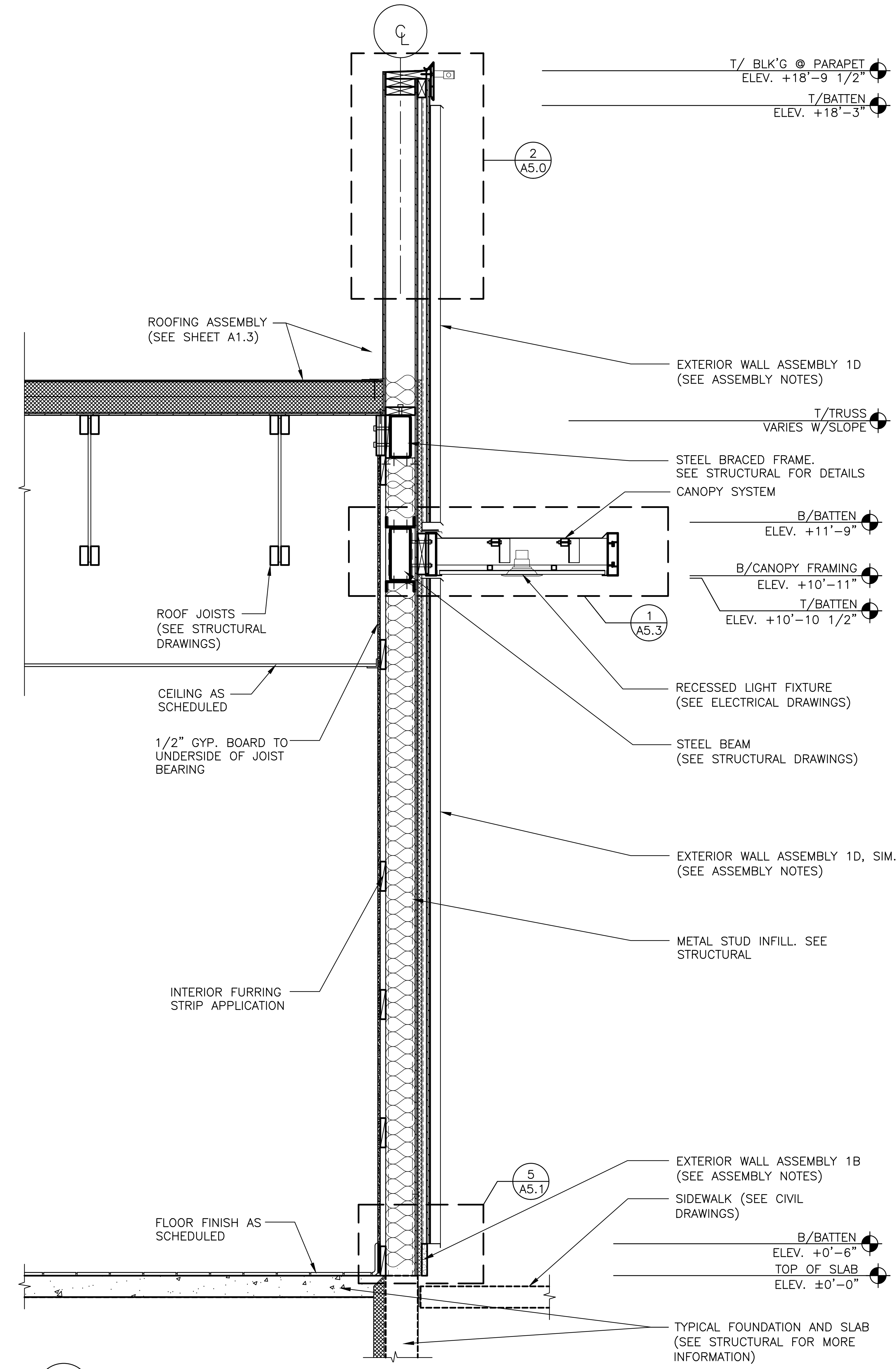

SLOPE TOP PLATE FOR POSITIVE DRAINAGE TOWARDS ROOF
CONT. SEALING STRIP ADHERED TO WOOD BLOCKING
CONT. NON–CURING SEALANT
CONT. 2x WOOD BLK'G. SLOPED TOWARDS ROOF
PRE–FAB ANCHOR–TITE FASCIA WITH 24 GA PRE–FINISHED COVER BY METAL–ERA (SEE ELEVATIONS FOR COLOR)
24 GA PRE–FINISHED GALV. BRAKE METAL W/ CONT. CLEATS & CONCEALED SPLICE PLATES OVER FRAMING PROFILE
EXTEND ROOFING MEMBRANE UP BACKSIDE PARAPET TO UNDERSIDE OF FASCIA, (SEE A1.3 FOR ROOFING NOTES)
EXTERIOR WALL ASSEMBLY 1C (SEE ASSEMBLY NOTES)

3 A5.3 **DETAIL– FASCIA @ E.I.F.S. PARAPET**

3" = 1'–0"

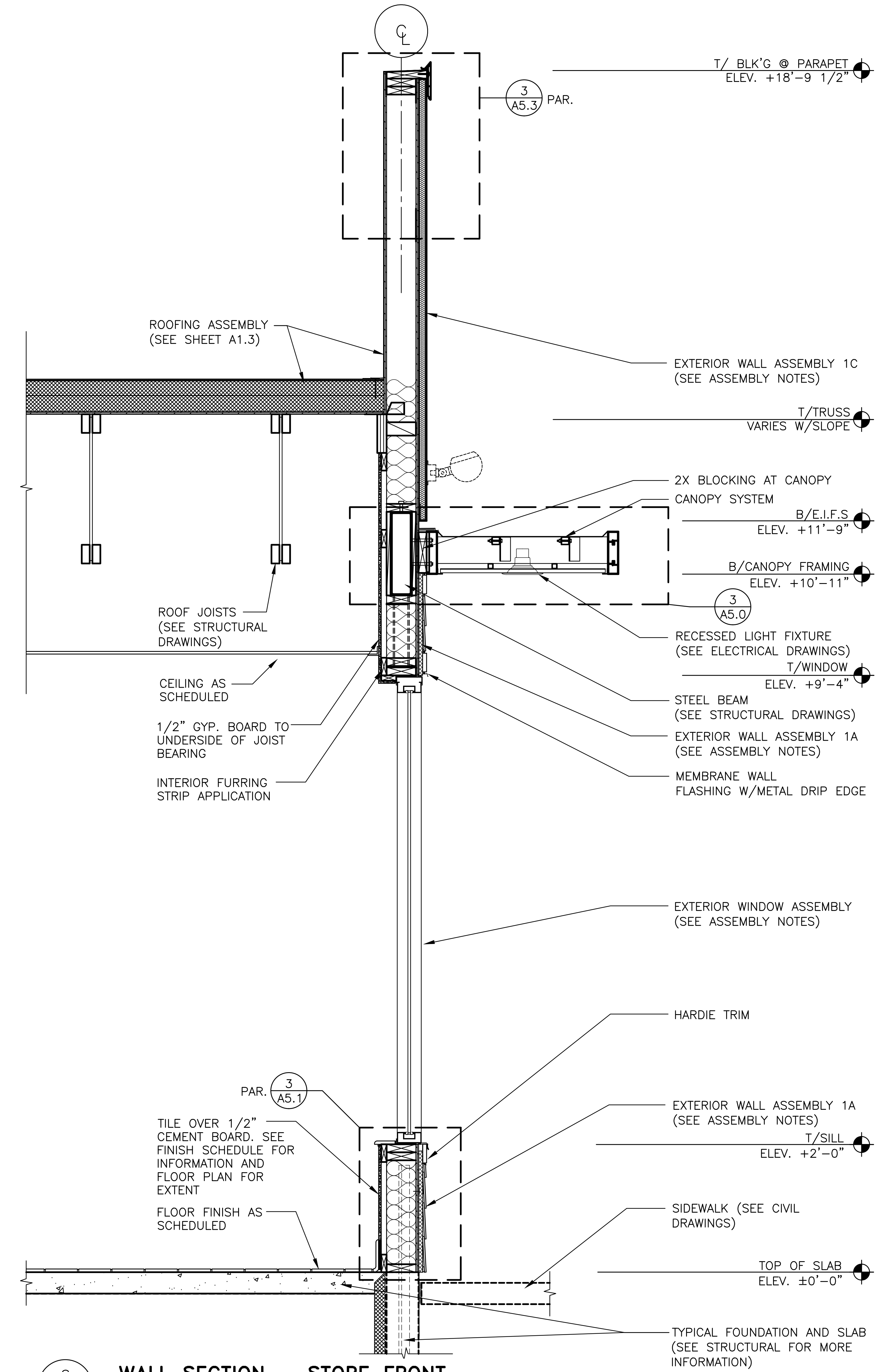
4 A5.3 **NOT USED**

–


℄
T/ BLK'G @ PARAPET ELEV. +18'–9 1/2"
T/BATTEN ELEV. +18'–3"
2 A5.0
ROOFING ASSEMBLY (SEE SHEET A1.3)
EXTERIOR WALL ASSEMBLY 1D (SEE ASSEMBLY NOTES)
T/TRUSS VARIES W/SLOPE
STEEL BRACED FRAME. SEE STRUCTURAL FOR DETAILS
CANOPY SYSTEM
B/BATTEN ELEV. +11'–9"
B/CANOPY FRAMING ELEV. +10'–11"
T/BATTEN ELEV. +10'–10 1/2"
1 A5.3
ROOF JOISTS (SEE STRUCTURAL DRAWINGS)
CEILING AS SCHEDULED
1/2" GYP. BOARD TO UNDERSIDE OF JOIST BEARING
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
STEEL BEAM (SEE STRUCTURAL DRAWINGS)
EXTERIOR WALL ASSEMBLY 1D, SIM. (SEE ASSEMBLY NOTES)
METAL STUD INFILL. SEE STRUCTURAL
INTERIOR FURRING STRIP APPLICATION
5 A5.1
EXTERIOR WALL ASSEMBLY 1B (SEE ASSEMBLY NOTES)
SIDEWALK (SEE CIVIL DRAWINGS)
FLOOR FINISH AS SCHEDULED
B/BATTEN ELEV. +0'–6"
TOP OF SLAB ELEV. ±0'–0"
TYPICAL FOUNDATION AND SLAB (SEE STRUCTURAL FOR MORE INFORMATION)

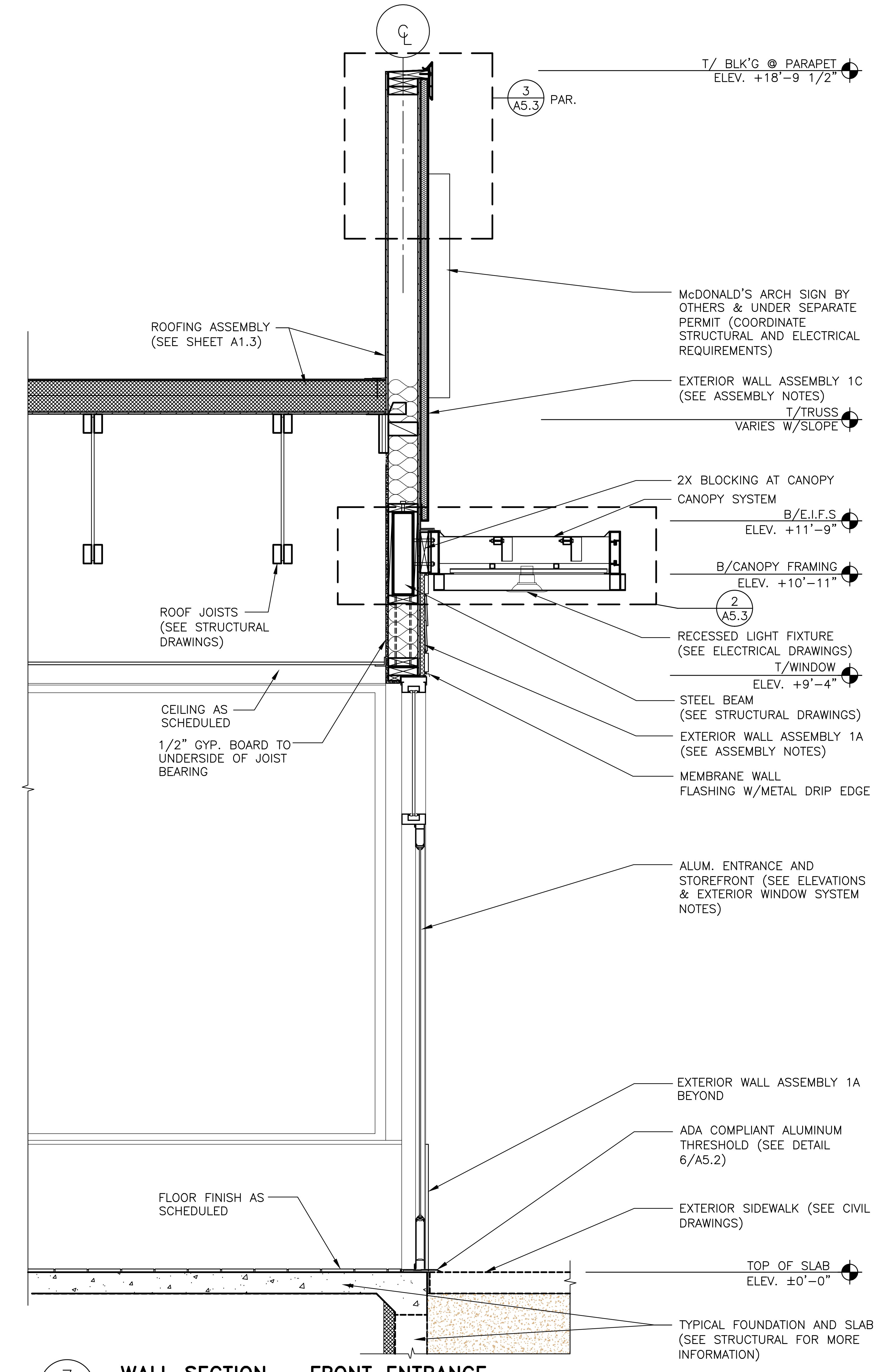
5 A5.3 **WALL SECTION – FRONT CORNER BATTEN**

3/4" = 1'–0"


℄
T/ BLK'G @ PARAPET ELEV. +18'–9 1/2"
3 A5.3 PAR.
ROOFING ASSEMBLY (SEE SHEET A1.3)
EXTERIOR WALL ASSEMBLY 1C (SEE ASSEMBLY NOTES)
T/TRUSS VARIES W/SLOPE
2X BLOCKING AT CANOPY
CANOPY SYSTEM
B/E.I.F.S ELEV. +11'–9"
B/CANOPY FRAMING ELEV. +10'–11"
3 A5.0
ROOF JOISTS (SEE STRUCTURAL DRAWINGS)
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
T/WINDOW ELEV. +9'–4"
CEILING AS SCHEDULED
1/2" GYP. BOARD TO UNDERSIDE OF JOIST BEARING
STEEL BEAM (SEE STRUCTURAL DRAWINGS)
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
INTERIOR FURRING STRIP APPLICATION
MEMBRANE WALL FLASHING W/METAL DRIP EDGE
EXTERIOR WINDOW ASSEMBLY (SEE ASSEMBLY NOTES)
HARDIE TRIM
PAR. 3 A5.1
TILE OVER 1/2" CEMENT BOARD. SEE FINISH SCHEDULE FOR INFORMATION AND FLOOR PLAN FOR EXTENT
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
T/SILL ELEV. +2'–0"
FLOOR FINISH AS SCHEDULED
SIDEWALK (SEE CIVIL DRAWINGS)
TOP OF SLAB ELEV. ±0'–0"
TYPICAL FOUNDATION AND SLAB (SEE STRUCTURAL FOR MORE INFORMATION)

6 A5.3 **WALL SECTION – STORE FRONT**

3/4" = 1'–0"


℄
T/ BLK'G @ PARAPET ELEV. +18'–9 1/2"
3 A5.3 PAR.
McDONALD'S ARCH SIGN BY OTHERS & UNDER SEPARATE PERMIT (COORDINATE STRUCTURAL AND ELECTRICAL REQUIREMENTS)
ROOFING ASSEMBLY (SEE SHEET A1.3)
EXTERIOR WALL ASSEMBLY 1C (SEE ASSEMBLY NOTES)
T/TRUSS VARIES W/SLOPE
2X BLOCKING AT CANOPY
CANOPY SYSTEM
B/E.I.F.S ELEV. +11'–9"
B/CANOPY FRAMING ELEV. +10'–11"
2 A5.3
ROOF JOISTS (SEE STRUCTURAL DRAWINGS)
RECESSED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
T/WINDOW ELEV. +9'–4"
CEILING AS SCHEDULED
1/2" GYP. BOARD TO UNDERSIDE OF JOIST BEARING
STEEL BEAM (SEE STRUCTURAL DRAWINGS)
EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)
MEMBRANE WALL FLASHING W/METAL DRIP EDGE
ALUM. ENTRANCE AND STOREFRONT (SEE ELEVATIONS & EXTERIOR WINDOW SYSTEM NOTES)
EXTERIOR WALL ASSEMBLY 1A BEYOND
ADA COMPLIANT ALUMINUM THRESHOLD (SEE DETAIL 6/A5.2)
FLOOR FINISH AS SCHEDULED
EXTERIOR SIDEWALK (SEE CIVIL DRAWINGS)
TOP OF SLAB ELEV. ±0'–0"
TYPICAL FOUNDATION AND SLAB (SEE STRUCTURAL FOR MORE INFORMATION)

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

3/4" = 1'–0"

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

STATE OF MISSOURI
WILLIAM SHEPPARD
NUMBER A-2024044882
ARCHITECT
11-14-2025

PREPARED BY:
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PREPARED FOR:
**McDonald's USA, LLC**

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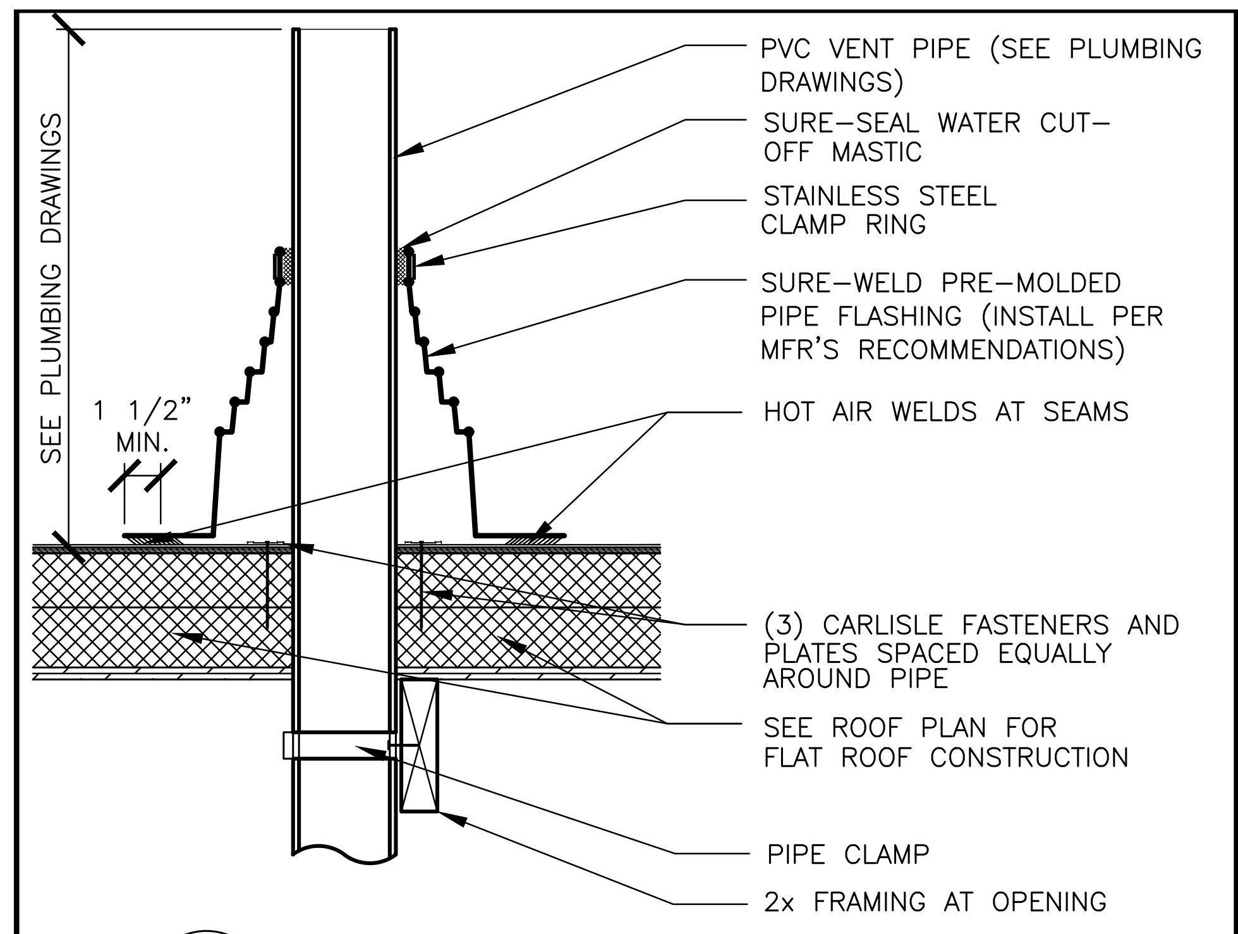
DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10–16–2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

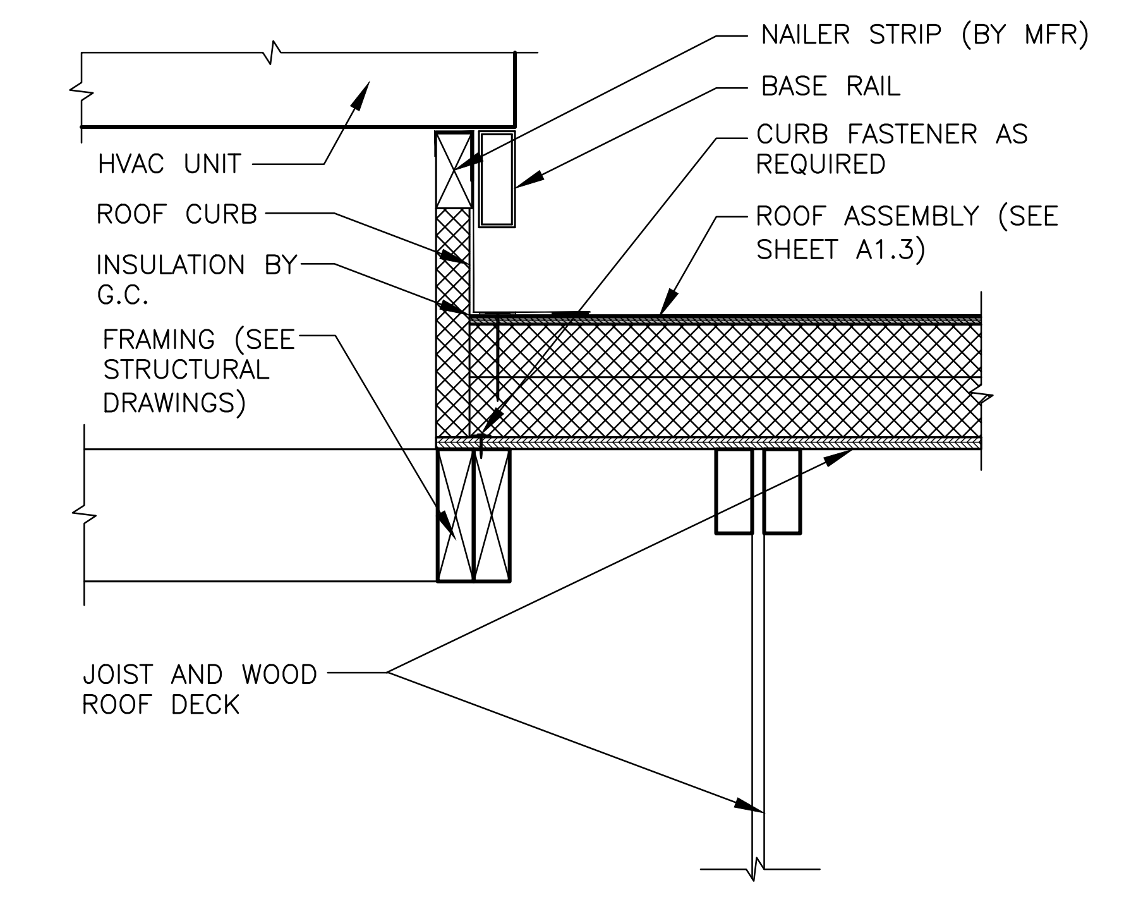
DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233–9756

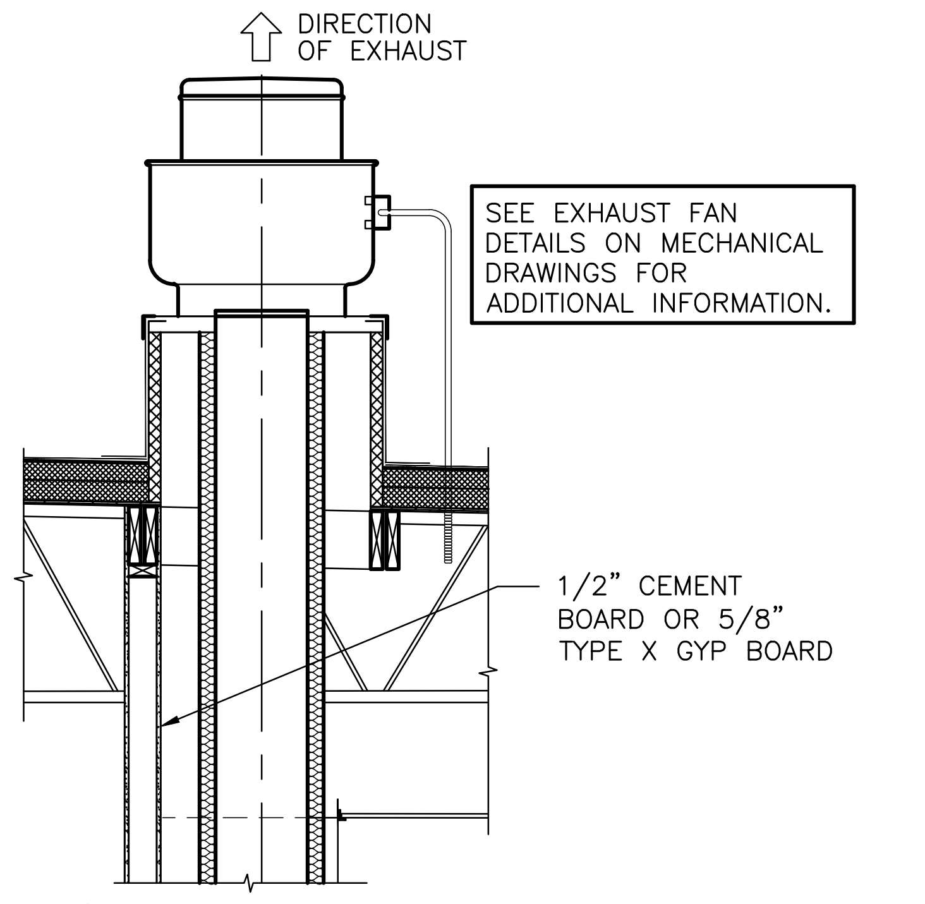
SHEET NO.
024–0281.00.0
**A5.3**
WALL SECTIONS


SEE PLUMBING DRAWINGS
1 1/2" MIN.
PVC VENT PIPE (SEE PLUMBING DRAWINGS)
SURE–SEAL WATER CUT–OFF MASTIC
STAINLESS STEEL CLAMP RING
SURE–WELD PRE–MOLDED PIPE FLASHING (INSTALL PER MFR'S RECOMMENDATIONS)
HOT AIR WELDS AT SEAMS
(3) CARLISLE FASTENERS AND PLATES SPACED EQUALLY AROUND PIPE
SEE ROOF PLAN FOR FLAT ROOF CONSTRUCTION
PIPE CLAMP
2x FRAMING AT OPENING

### 1/A6.0 TYPICAL VENT PENETRATION
1 1/2"=1'–0"

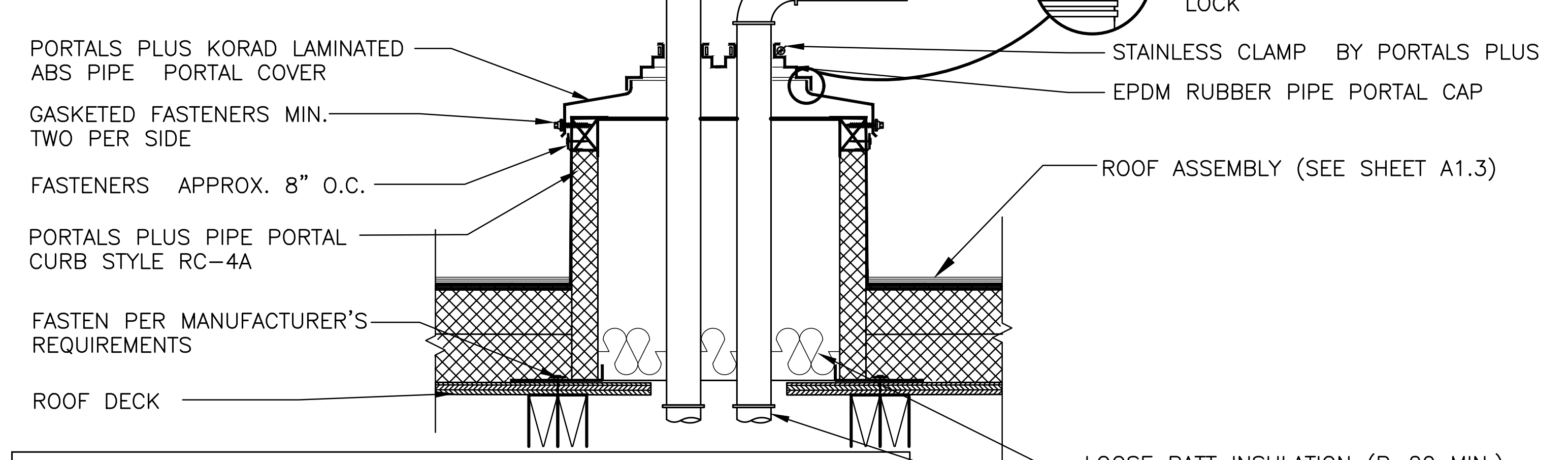


### 2/A6.0 HVAC UNIT ROOF CURB DETAIL
1 1/2"=1'–0"


DIRECTION OF EXHAUST
SEE EXHAUST FAN DETAILS ON MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
1/2" CEMENT BOARD OR 5/8" TYPE X GYP BOARD

### 3/A6.0 DETAIL @ EXHAUST FAN
1/2"=1'–0"

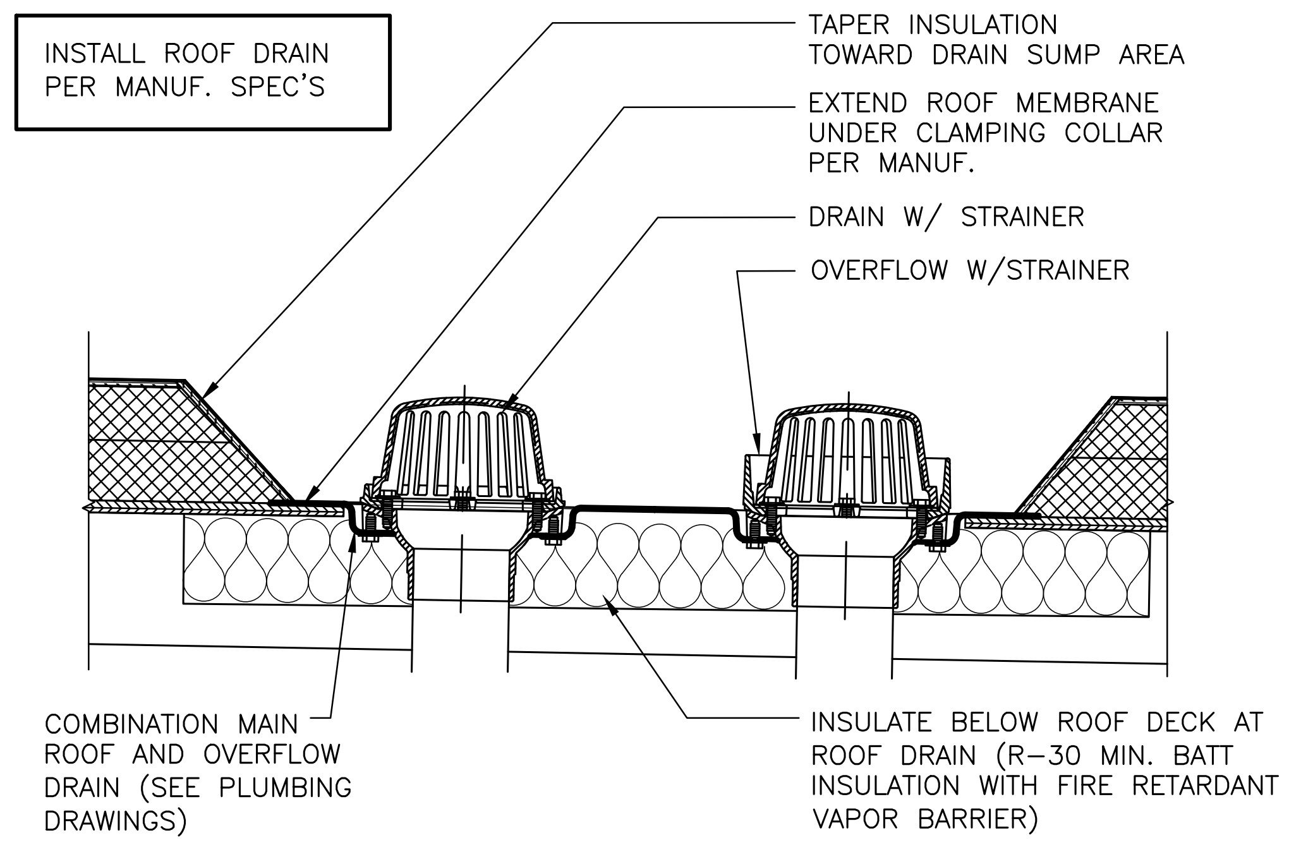
NOTE:
THIS DETAIL ILLUSTRATES THE METHOD TO ELIMINATING PITCH POCKETS AND THE METHOD OF GROUPING PIPING THAT MUST PENETRATE THE ROOF.


DETAIL "A"
SNAP CAP TO LOCK
PORTALS PLUS KORAD LAMINATED ABS PIPE PORTAL COVER
STAINLESS CLAMP BY PORTALS PLUS
EPDM RUBBER PIPE PORTAL CAP
GASKETED FASTENERS MIN. TWO PER SIDE
FASTENERS APPROX. 8" O.C.
ROOF ASSEMBLY (SEE SHEET A1.3)
PORTALS PLUS PIPE PORTAL CURB STYLE RC–4A
FASTEN PER MANUFACTURER'S REQUIREMENTS
ROOF DECK
LOOSE BATT INSULATION (R–20 MIN.)
SUPPORT PIPES FROM STRUCTURE

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

### 4/A6.0 PIPE PORTAL DETAIL
1 1/2"=1'–0"

INSTALL ROOF DRAIN PER MANUF. SPEC'S


TAPER INSULATION TOWARD DRAIN SUMP AREA
EXTEND ROOF MEMBRANE UNDER CLAMPING COLLAR PER MANUF.
DRAIN W/ STRAINER
OVERFLOW W/STRAINER
COMBINATION MAIN ROOF AND OVERFLOW DRAIN (SEE PLUMBING DRAWINGS)
INSULATE BELOW ROOF DECK AT ROOF DRAIN (R–30 MIN. BATT INSULATION WITH FIRE RETARDANT VAPOR BARRIER)

### 5/A6.0 SECTION @ ROOF DRAIN
1 1/2"=1'–0"

## 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 PULL HANDLE ROCKWOOD MFG. MODEL: RM3311. SIZE: 1–1/4" DIA. CTC: 5'–10". FINISH: TO MATCH STOREFRONT DOOR. 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 A1.0 FOR 3/16" DIAMOND PLATE THRESHOLD BY DIAMOND PLATE PROTECTION CONTRACTOR
14. SEE A1.0 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 A1.0 FOR 3/16" DIAMOND PLATE THRESHOLD BY DIAMOND PLATE PROTECTION CONTRACTOR
13. SEE A1.0 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 #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 LOUVER L–700–RX, AFDL 6 X 18 N.GUARD

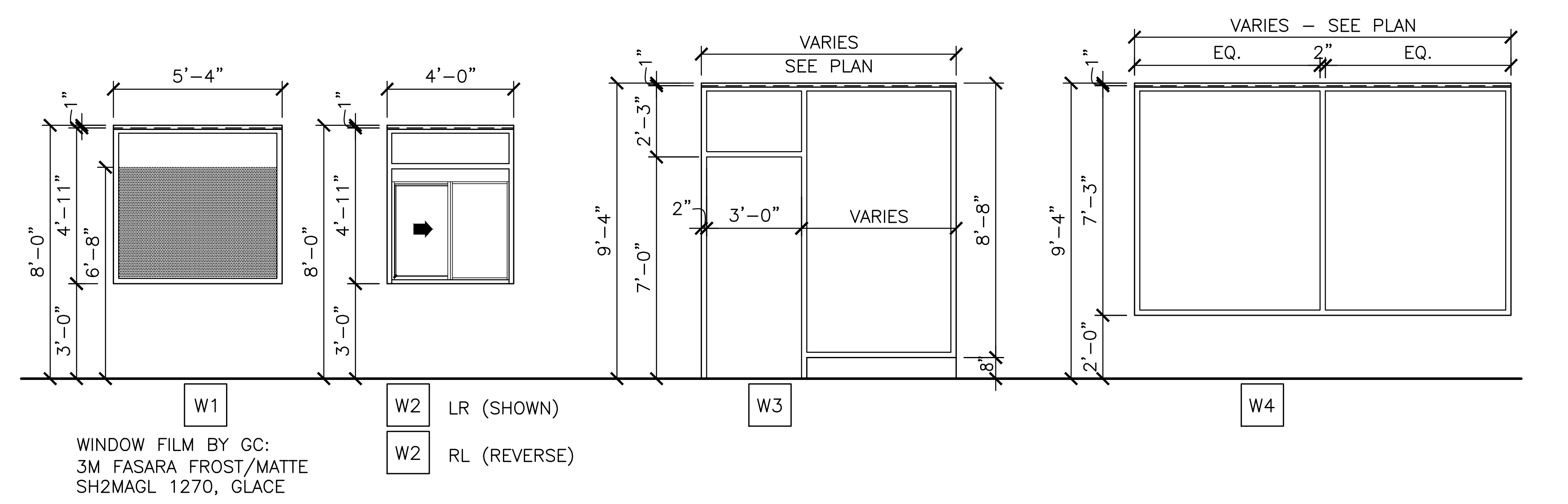
DOOR #9A & #9B – COOLER
1. ALL DOOR HARDWARE FOR THE REFRIGERATED COOLER / FREEZER SHALL BE PROVIDED BY THE MANUFACTURER.
   MANUFACTURER: KOLPAK @ HY 641 N. McCORKLE PARK ROAD
   PARSONS, TN 38363 PHONE: 800–344–4675
   HARDWARE PROVIDED:
      1. MAGNETIC PERIMETER DOOR GASKET
      2. THRESHOLD REINFORCED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

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 STORAGE BY DUMPSTER
1. 1 EA HINGE 780–112HD 83" ALUM HAGER
2. 1 EA DEADBOLT B661P 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



WINDOW FILM BY GC:
3M FASARA FROST/MATTE
SH2MAGL 1270, GLACE

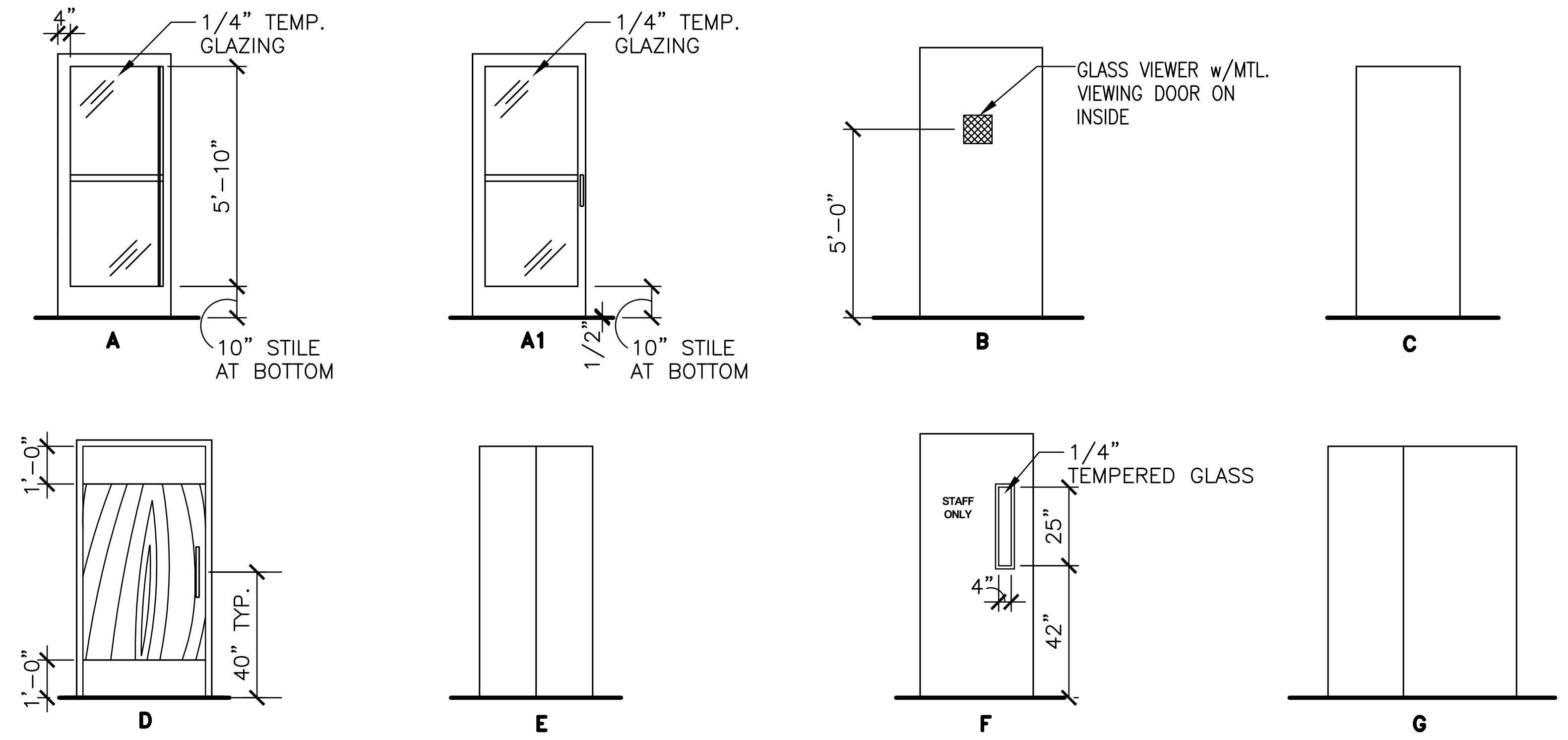
### INTERIOR WINDOW ASSEMBLY
**(STOREFRONT & ENTRANCE SYSTEM)**
1. EXTRA DARK BRONZE ALUMINUM FRAME, THERMALLY BROKEN WITH HEAD RECEIVER CHANNEL.
2. 1/4" CLEAR TEMPERED GLAZING
3. 1/2" CORIAN SILL EACH SIDE

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

## DOOR SCHEDULE

| MARK | DOOR |  |  |  | FRAME |  |  |
|---|---|---|---|---|---|---|---|
|  | MATERIAL | SIZE | TYPE | FINISH | MATL | SIZE | 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<br>EXT LAMINATE: LAMITECH 1467 MT LINEAL OAK |  |  | LUNA: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN<br>EXT PAINT: BENJAMIN MOORE 2121–10 GRAY |
|  |  |  |  | RT 66: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK<br>EXT LAMINATE: WILSONART D90–60 NORTH SEA |  |  | RT 66: INT PAINT: BENJAMIN MOORE 2121–10 GRAY<br>EXT PAINT: BENJAMIN MOORE 2134–40 WHALE GRAY |
|  |  |  |  | RAY: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK<br>EXT LAMINATE: LAMITECH 2255 MT IRON |  |  | RAY: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN<br>EXT PAINT: BENJAMIN MOORE 1631 MIDNIGHT OIL |
| 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<br>EXT LAMINATE: LAMITECH 1467 MT LINEAL OAK |  |  | LUNA: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN<br>EXT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN |
|  |  |  |  | RT 66: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK<br>EXT LAMINATE: LAMITECH 1540 PR ONTARIO OAK |  |  | RT 66: INT PAINT: BENJAMIN MOORE 2121–10 GRAY<br>EXT PAINT: BENJAMIN MOORE 2121–10 GRAY |
|  |  |  |  | RAY: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK<br>EXT LAMINATE: LAMITECH 1540 PR ONTARIO OAK |  |  | RAY: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN<br>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 |  |
| 8A | 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 |
| 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<br>EXT PAINT: BENJAMIN MOORE 2121–10 GRAY |  |  |  |
|  |  |  |  | RT 66: INT PAINT: BENJAMIN MOORE 2121–10 GRAY<br>EXT PAINT: BENJAMIN MOORE 2134–40 WHALE GRAY |  |  |  |
|  |  |  |  | RAY: INT PAINT: BENJAMIN MOORE 2121–10 GRAY<br>EXT PAINT: BENJAMIN MOORE 1117 GUESTHOUSE |  |  |  |
| 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<br>EXT LAMINATE: WILSONART D92–60 DOVE GREY |  |  | LUNA: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN<br>EXT PAINT: BENJAMIN MOORE 2121–20 GRAY |
|  |  |  |  | RT 66: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK<br>EXT LAMINATE: LAMITECH 1540 PR ONTARIO OAK |  |  | RT 66: INT PAINT: BENJAMIN MOORE 2121–10 GRAY<br>EXT PAINT: BENJAMIN MOORE 2121–10 GRAY |
|  |  |  |  | RAY: INT LAMINATE: LAMITECH 1540 PR ONTARIO OAK<br>EXT LAMINATE: LAMITECH 1540 PR ONTARIO OAK |  |  | RAY: INT PAINT: BENJAMIN MOORE 2134–30 IRON MOUNTAIN<br>EXT 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 A1.0.
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, 8A, 10, 15, 16 SUPPLIED BY: UNIVERSAL MANUFACTURING 1–800–821–1414.
4. DOOR 9 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 TO HAVE MAXIMUM U VALUE = 0.61



### DOOR TYPES

REV | DATE | DESCRIPTION | BY

STATE OF MISSOURI
WILLIAM SHEPPARD
NUMBER A-2024044882
ARCHITECT
11-14-2025

PREPARED BY:
William C Sheppard
ARCHITECT
210 CENTRAL AVE., STE 3
HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:
McDonald's USA, LLC

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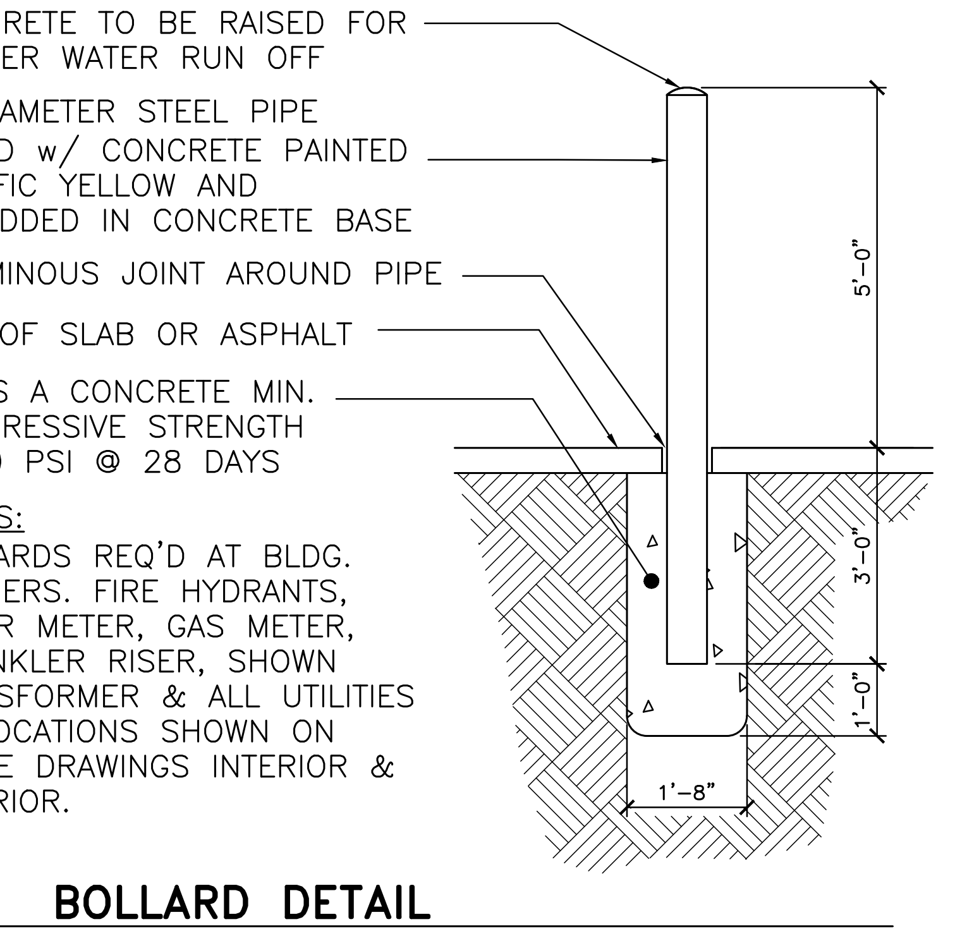
DRAWN BY: SO
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10–16–2025

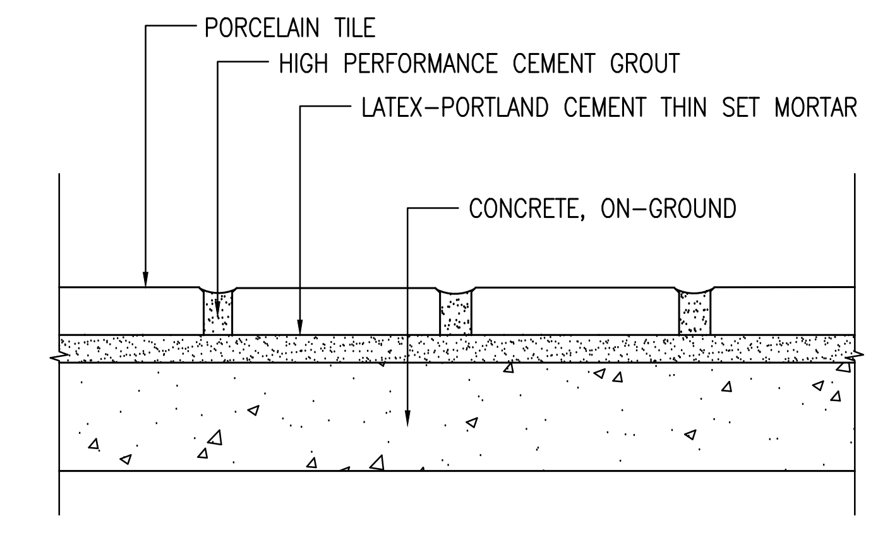
TITLE: 2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD
DESCRIPTION:
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH
NSN: 8043
L/C: 024–0281
SITE ADDRESS: 490 AMERICANA BOONVILLE, MO, 65233–9756

SHEET NO.: 024–0281.00.0
A6.0
DOOR & HARDWARE

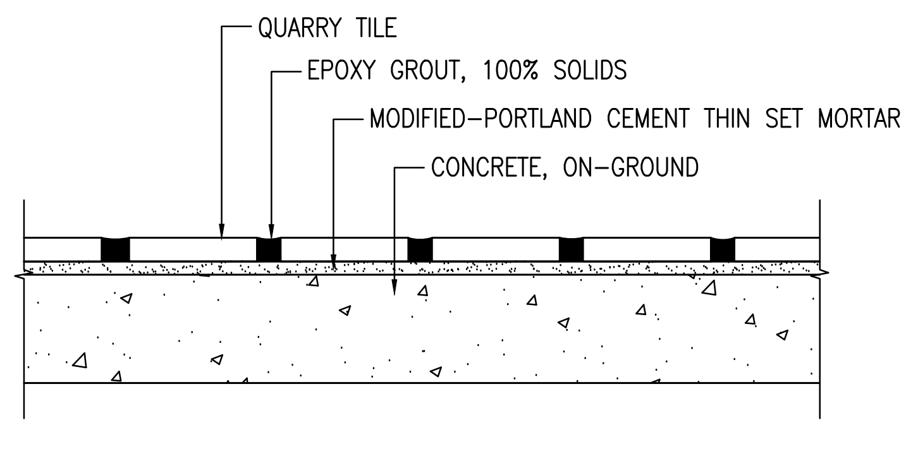

CONCRETE TO BE RAISED FOR PROPER WATER RUN OFF
6" DIAMETER STEEL PIPE FILLED w/ CONCRETE PAINTED TRAFFIC YELLOW AND EMBEDDED IN CONCRETE BASE
BITUMINOUS JOINT AROUND PIPE
TOP OF SLAB OR ASPHALT
CLASS A CONCRETE MIN. COMPRESSIVE STRENGTH 4,000 PSI @ 28 DAYS
5'-0"
3'-0"
1'-0"
1'-8"

NOTES:
BOLLARDS REQ'D AT BLDG. CORNERS. FIRE HYDRANTS, WATER METER, GAS METER, SPRINKLER RISER, SHOWN TRANSFORMER & ALL UTILITIES AT LOCATIONS SHOWN ON THESE DRAWINGS INTERIOR & EXTERIOR.

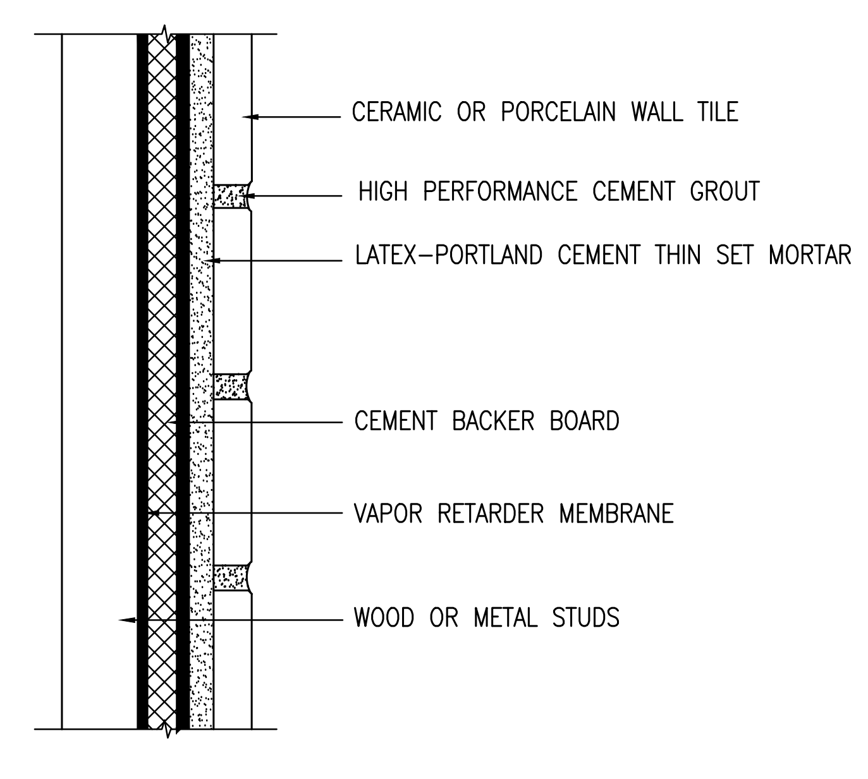
### 1 / A6.1 BOLLARD DETAIL
N.T.S.


PORCELAIN TILE
HIGH PERFORMANCE CEMENT GROUT
LATEX–PORTLAND CEMENT THIN SET MORTAR
CONCRETE, ON–GROUND

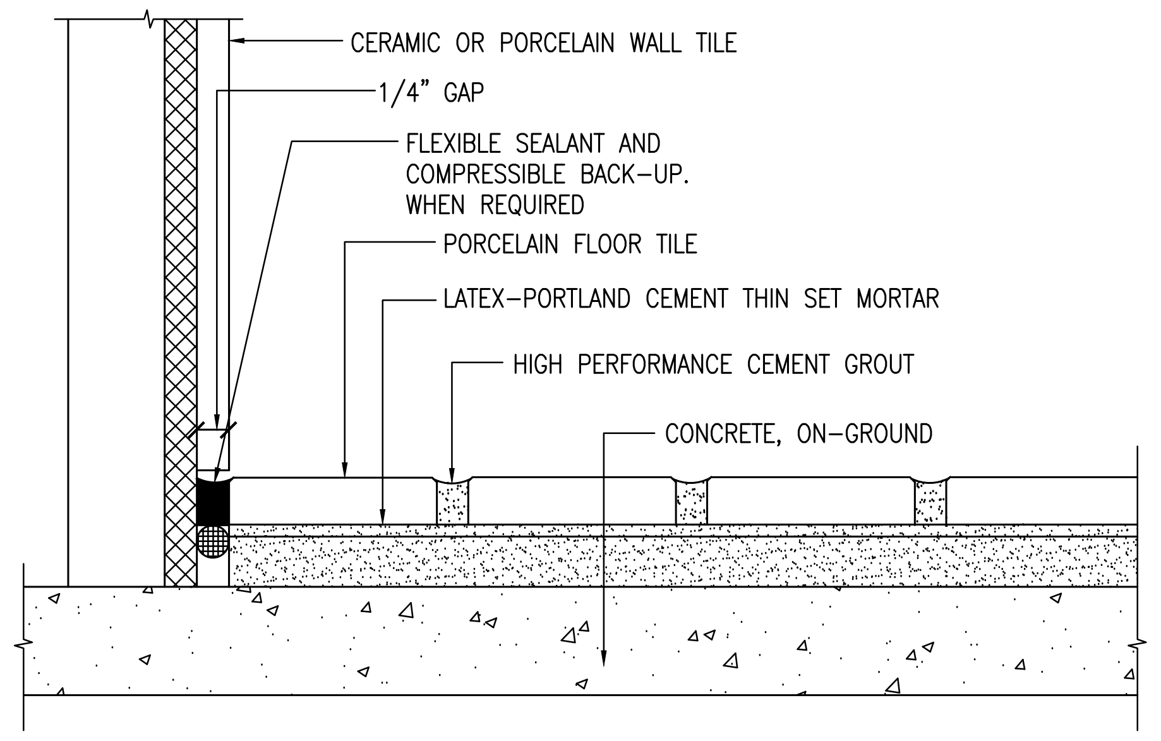
### 2 / A6.1 RESTROOM AND DINING ROOM FLOORS OVER CONCRETE
N.T.S.



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


CERAMIC OR PORCELAIN WALL TILE
HIGH PERFORMANCE CEMENT GROUT
LATEX–PORTLAND CEMENT THIN SET MORTAR
CEMENT BACKER BOARD
VAPOR RETARDER MEMBRANE
WOOD OR METAL STUDS

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


CERAMIC OR PORCELAIN WALL TILE
1/4" GAP
FLEXIBLE SEALANT AND COMPRESSIBLE BACK–UP. WHEN REQUIRED
PORCELAIN FLOOR TILE
LATEX–PORTLAND CEMENT THIN SET MORTAR
HIGH PERFORMANCE CEMENT GROUT
CONCRETE, ON–GROUND

### 5 / A6.1 DINING ROOM PERIMETER JOINT
N.T.S.

## WALL TILE SCHEDULE – LUNA

| 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 | CERAMIC WALL TILE | | LATEX–PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 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 | CERAMIC WALL TILE | | LATEX–PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 113 | CREW ALCOVE | CERAMIC WALL TILE | | LATEX–PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 114 | JANITOR'S CLOSET | CERAMIC WALL TILE | | LATEX–PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |
| 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 | CERAMIC WALL TILE | | LATEX–PORTLAND CEMENT THIN SET (MEDIUM BED) | HIGH PERFORMANCE CEMENT GROUT |

## FLOOR TILE SCHEDULE – LUNA

| 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 SCHEDULE | ---- | ---- | ---- |

## ROOM FINISH SCHEDULE – LUNA

| MARK | ROOM NAME | WALLS | | | CEILING * | REMARKS |
|---|---|---|---|---|---|---|
| | | SUBSTRATE | FINISH | | | |
| 100 | CUSTOMER SERVICE | CEMENT BOARD | TILE ** | TILE AS NOTED ON A1.0 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 | CEMENT BOARD | TILE | STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0 | 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 A1.0 | 2'x2' VINYL–FACED LAY–IN | SEE SHEET A1.0 FOR EXTENT OF CEMENT BOARD, SS OR CT |
| 106 | PRESENTER –1 | CEMENT BOARD | TILE | STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0 | 2'x2' VINYL–FACED LAY–IN | |
| 107 | ORDER | CEMENT BOARD | TILE | STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0 | 2'x2' VINYL–FACED LAY–IN | |
| 108 | MANAGER'S AREA | CEMENT BOARD | TILE | STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0 | 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 | CEMENT BOARD | TILE | | PAINTED GYP. BD. | |
| 113 | CREW ALCOVE | CEMENT BOARD | TILE | STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0 | 2'x2' VINYL–FACED LAY–IN | SEE SHEET A1.0 FOR EXTENT OF CEMENT BOARD, SS OR CT |
| 114 | JANITOR'S CLOSET | CEMENT BOARD | TILE | STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0 | PAINTED GYP. BD. | EXT GRADE PLYWOOD (NOTE 4) |
| 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 A1.0 | 2'x2' VINYL–FACED LAY–IN | |
| 117 | CO2 | CEMENT BOARD | TILE | STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0 | PAINTED GYP. BD. | EXT GRADE PLYWOOD (NOTE 4) SEE NOTE 7 |

## DINING ROOM FINISH SCHEDULE – LUNA

| QUANTITY | TYPE | PRODUCT, FINISH & COLOR | REMARKS |
|---|---|---|---|
| N/A | WALL/WAINSCOT TILE | CROSSVILLE – MOONLIGHT GREY 12"x24" | GROUT: MAPEI ULTRACOLOR GRAY 09 – JOINT 1/16" MAX |
| N/A | WALLCOVERING | MOMENTUM, NA–5C–MC439 LUNA WOODGRAIN | |
| N/A | WALLCOVERING | MOMENTUM, NA–5C–MC300 STONE TEXTURE, CREAM | |
| N/A | WALLCOVERING | MOMENTUM, NA–5C–MC439 STONE TEXTURE, CREAM | |
| N/A | WALLCOVERING | MOMENTUM DINING ROOM GRAPHIC, SEE DECOR DRAWINGS | |
| N/A | TRIM | SCHLUTER – QUADEC – SATIN ANODIZED ALUMINUM | |
| N/A | WINDOW SILLS AND CASEMENT | DUPONT – CORIAN "DEEP CLOUD" | |
| N/A | MAIN CEILING TILE | USG – FROST 450 SHADOWLINE "534 CHARCOAL" 24"X48" | |
| N/A | MAIN CEILING GRID | USG – DX/DXL INTERMEDIATE DUTY GRID "534 CHARCOAL" | VENT PAINT: BENJAMIN MOORE "2121–10 GRAY" |
| SEE PLAN | PENDANT LIGHTING | SECURITY LIGHTING – ORBIT PENDANT LIGHT | 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.

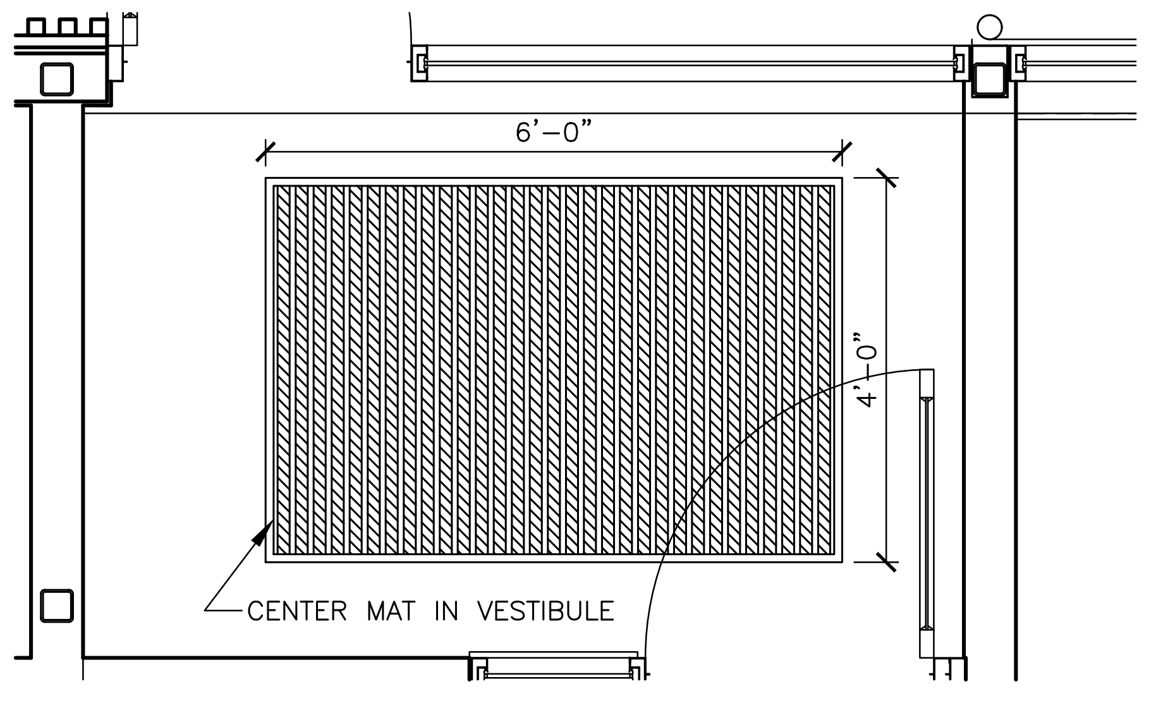
   APPLY CLEANER PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
   REFERENCE: McDONDALD'S PROJECT MANUAL – SECTION 09300 TILING INTERIOR.
7. GROUT COLOR AND MANUFACTURER AS INDICATED ON SHEET A1.0 AND INTERIOR DECOR DRAWINGS.

GENERAL FINISH NOTES:

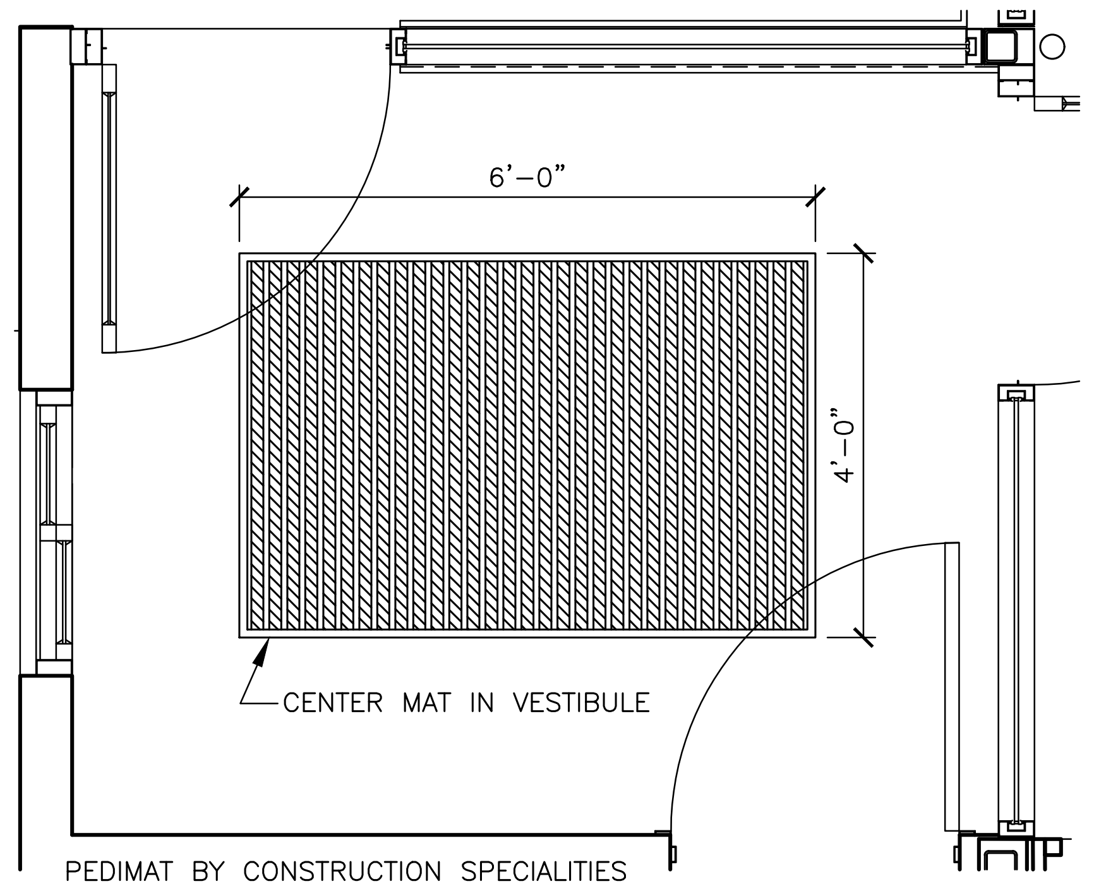
1. ALL FINISH SURFACES OF WALL AND CEILING MATERIALS SHALL BE CLASS B AND SHALL HAVE A FLAME SPREAD RATING OF 26 TO 75 AND A SMOKE DENSITY OF 450 MAX. (PER IBC TABLE 803.9).
2. DECORATIVE MATERIALS SHALL BE FLAME RETARDANT AND MEET THE CRITERIA OF NFPA 701.
3. DECORATIVE MATERIAL SHALL NOT CONCEAL EXITS, 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.
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". LUNA WOOD WALL COVERING – MOMENTUM NA–5C–MC439 – LUNA 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



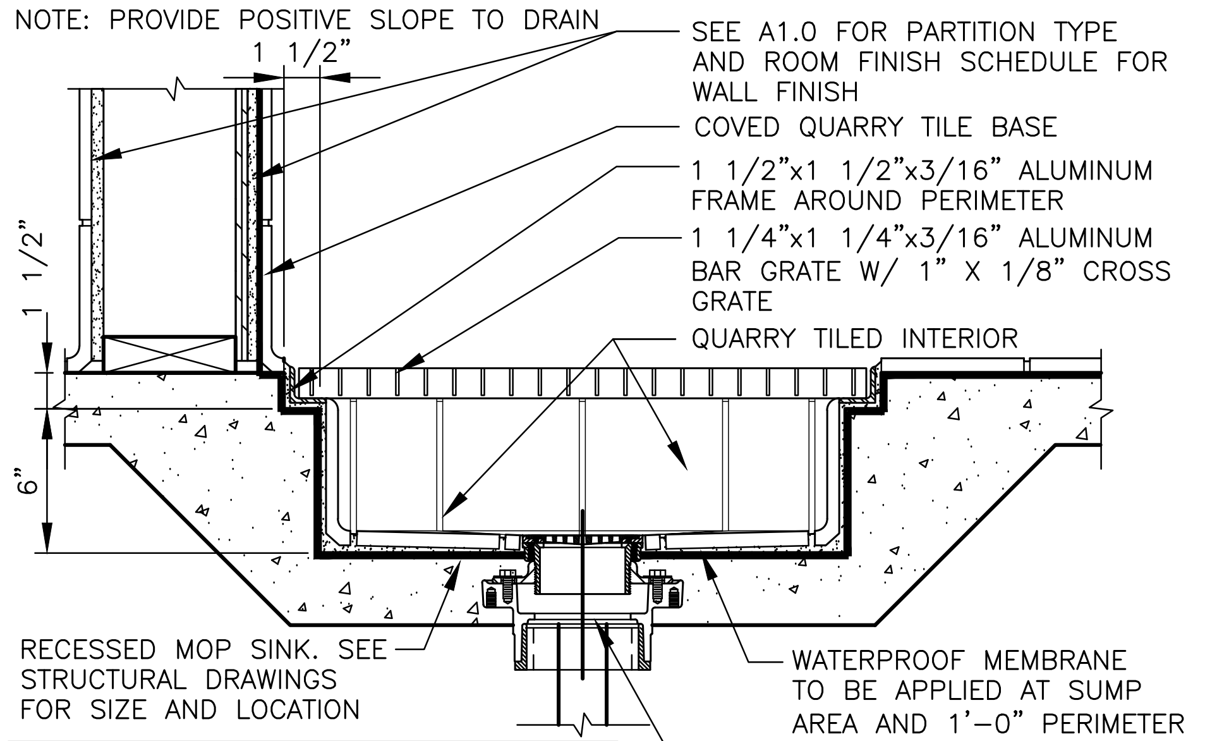
PEDIMAT BY CONSTRUCTION SPECIALITIES
– RAIL/FRAME FINISH: CLEAR ANODIZED
– CARPET INSERT: #7325 WROUGHT IRON
CONTACT: NATIONAL ACCOUNTS DIVISION
PHONE: (888) 424–6287
FAX: (908) 849–4295
NATIONALACCOUNTS@C–SGROUP.COM

OPTIONAL: VERIFY WITH MCDONALD'S CONSTRUCTION MANAGER

DRIVE THRU – PEDI MAT

### 7 / A6.1 PEDIMAT (OPTIONAL)
1/2" =1'–0"

NOTE: PROVIDE POSITIVE SLOPE TO DRAIN


1 1/2"
1 1/2"
6"
SEE A1.0 FOR PARTITION TYPE AND ROOM FINISH SCHEDULE FOR WALL FINISH
COVED QUARRY TILE BASE
1 1/2"x1 1/2"x3/16" ALUMINUM FRAME AROUND PERIMETER
1 1/4"x1 1/4"x3/16" ALUMINUM BAR GRATE W/ 1" X 1/8" CROSS GRATE
QUARRY TILED INTERIOR
RECESSED MOP SINK. SEE STRUCTURAL DRAWINGS FOR SIZE AND LOCATION
WATERPROOF MEMBRANE TO BE APPLIED AT SUMP AREA AND 1'–0" PERIMETER AT ADJOINING FLOOR AND WALL AREAS
SEE PLUMBING DRAWINGS FOR DRAIN SPECIFICATION

PRE–FAB MOP SINK BY ADVANCE TABCO AVAILABLE AS AN ALTERNATE OPTION, SEE P4.1. WHERE PRE–FAB MOP SINK USED, DEPTH TO BE 8–7/8" TO ACCOMMODATE FACTORY BUILT MOP SINK DIMS.

### 8 / A6.1 MOP SINK
1 1/2"=1'–0"

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 02–03–26 | Changing Water Heater and RTUs to Gas, Decor Updates | SO |

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:
William C Sheppard
ARCHITECT
210 CENTRAL AVE., STE 3
HOT SPRINGS, AR 71901
PHONE 501-624-5679

PREPARED FOR:
**McDonald's USA, LLC**

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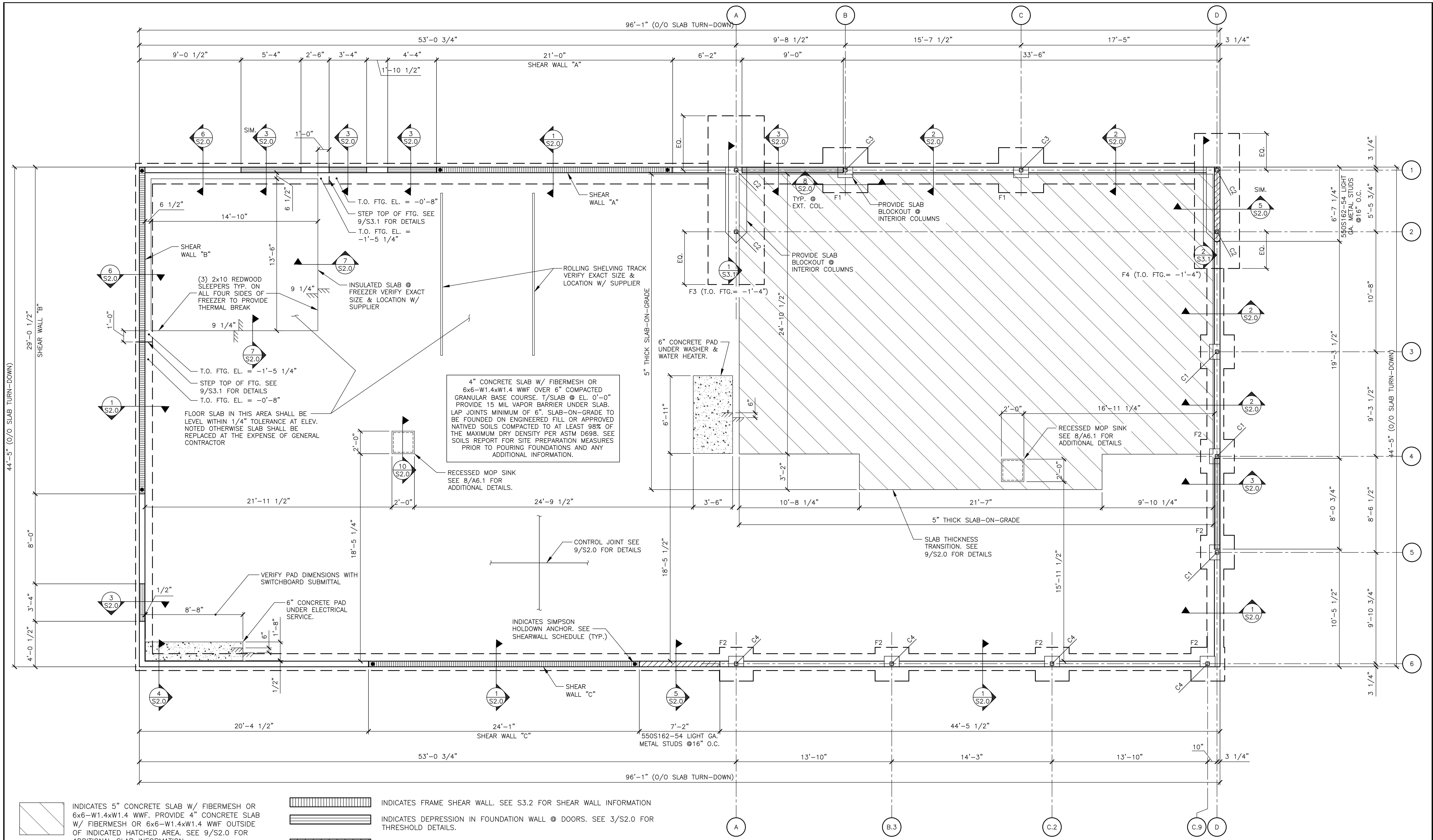
DRAWN BY: --
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10–16–2025

TITLE: 2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION:
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS: 490 AMERICANA BOONVILLE, MO, 65233–9756

SHEET NO. 024–0281.00.0
**A6.1**
FINISH SCHEDULES


96'-1" (O/O SLAB TURN-DOWN)
53'-0 3/4"
9'-8 1/2"
15'-7 1/2"
17'-5"
3 1/4"
9'-0 1/2"
5'-4"
2'-6"
3'-4"
4'-4"
1'-10 1/2"
21'-0"
SHEAR WALL "A"
6'-2"
9'-0"
33'-6"
A
B
C
D
1
2
3
4
5
6
EQ.
SIM.
1'-0"
6 S2.0
3 S2.0
1 S2.0
2 S2.0
7 S2.0
4 S2.0
5 S2.0
10 S2.0
8 S2.0
1 S3.1
2 S3.1
C1
C2
C3
C4
F1
F2
F3 (T.O. FTG.= -1'-4")
F4 (T.O. FTG.= -1'-4")
6 1/2"
14'-10"
13'-6"
SHEAR WALL "B"
(3) 2x10 REDWOOD SLEEPERS TYP. ON ALL FOUR SIDES OF FREEZER TO PROVIDE THERMAL BREAK
9 1/4"
INSULATED SLAB @ FREEZER VERIFY EXACT SIZE & LOCATION W/ SUPPLIER
T.O. FTG. EL. = -0'-8"
STEP TOP OF FTG. SEE 9/S3.1 FOR DETAILS
T.O. FTG. EL. = -1'-5 1/4"
SHEAR WALL "A"
ROLLING SHELVING TRACK VERIFY EXACT SIZE & LOCATION W/ SUPPLIER
TYP. @ EXT. COL.
PROVIDE SLAB BLOCKOUT @ INTERIOR COLUMNS
24'-10 1/2"
5" THICK SLAB-ON-GRADE
6" CONCRETE PAD UNDER WASHER & WATER HEATER.
6'-11"
6"
FLOOR SLAB IN THIS AREA SHALL BE LEVEL WITHIN 1/4" TOLERANCE AT ELEV. NOTED OTHERWISE SLAB SHALL BE REPLACED AT THE EXPENSE OF GENERAL CONTRACTOR
4" CONCRETE SLAB W/ FIBERMESH OR 6x6-W1.4xW1.4 WWF OVER 6" COMPACTED GRANULAR BASE COURSE. T/SLAB @ EL. 0'-0" PROVIDE 15 MIL VAPOR BARRIER UNDER SLAB. LAP JOINTS MINIMUM OF 6". SLAB-ON-GRADE TO BE FOUNDED ON ENGINEERED FILL OR APPROVED NATIVED SOILS COMPACTED TO AT LEAST 98% OF THE MAXIMUM DRY DENSITY PER ASTM D698. SEE SOILS REPORT FOR SITE PREPARATION MEASURES PRIOR TO POURING FOUNDATIONS AND ANY ADDITIONAL INFORMATION.
2'-0"
RECESSED MOP SINK SEE 8/A6.1 FOR ADDITIONAL DETAILS.
16'-11 1/4"
3'-2"
21'-11 1/2"
24'-9 1/2"
3'-6"
10'-8 1/4"
21'-7"
9'-10 1/4"
5" THICK SLAB-ON-GRADE
SLAB THICKNESS TRANSITION. SEE 9/S2.0 FOR DETAILS
18'-5 1/4"
18'-5 1/2"
15'-11 1/2"
CONTROL JOINT SEE 9/S2.0 FOR DETAILS
VERIFY PAD DIMENSIONS WITH SWITCHBOARD SUBMITTAL
6" CONCRETE PAD UNDER ELECTRICAL SERVICE.
8'-8"
1/2"
1'-8"
INDICATES SIMPSON HOLDOWN ANCHOR. SEE SHEARWALL SCHEDULE (TYP.)
SHEAR WALL "C"
20'-4 1/2"
24'-1"
SHEAR WALL "C"
7'-2"
550S162-54 LIGHT GA. METAL STUDS @16" O.C.
44'-5 1/2"
13'-10"
14'-3"
10"
44'-5" (O/O SLAB TURN-DOWN)
29'-0 1/2" SHEAR WALL "B"
8'-0"
3'-4"
4'-0 1/2"
1'-0"
6'-7 1/4"
550S162-54 LIGHT GA. METAL STUDS @16" O.C.
5'-5 3/4"
10'-8"
19'-3 1/2"
9'-3 1/2"
8'-0 3/4"
8'-6 1/2"
10'-5 1/2"
9'-10 3/4"
B.3
C.2
C.9

▨ 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.

## 1 FOUNDATION PLAN
S1.0

1/4"=1'-0"

▥ 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.

NOTES:

1. BOTTOM OF FOOTING @ EL. (-3'-6") UNLESS NOTED OTHERWISE.
2. TOP OF FOOTING @ EL. (-0'-8") UNLESS NOTED OTHERWISE.
3. (B.O. FTG.) & (T.O. FTG.) INDICATES BOTTOM OF FOOTING & TOP OF FOOTING, RESPECTIVELY.
4. PROVIDE POSITIVE DRAINAGE TO ALL FLOOR DRAINS/SINKS (MIN 6") BEYOND DRAIN) SEE PLUMBING DRAWINGS FOR EXACT LOCATIONS
5. SEE SHEET S2.0 FOR TYPICAL CORNER BAR DETAILS.
6. 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"
7. 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.)
8. WHERE SILL PLATES ARE NOT CONTINUOUS AT SHEAR WALLS, CONTACT ENGINEER OF RECORD FOR RESPONSE.

## FOOTING SCHEDULE

| MARK | SIZE | REINFORCING |
|---|---|---|
| F1 | 4'-0"x4'-0"x2'-10" | 5-#6 E.W. T&B |
| F2 | 3'-0"x3'-0"x2'-10" | 4-#6 E.W. T&B |
| F3 | 5'-0"x15'-0"x3'-0" | 11-#7 L.W.-T&B<br>#6 @ 12" O.C. S.W.-T&B |
| F4 | 4'-0"x12'-0"x3'-0" | 9-#7 L.W.-T&B<br>#6 @ 12" O.C. S.W.-T&B |
| | | |

## 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

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| - | - | - | - |

DAVID BALMA
NUMBER
PE-2015003007
2/19/2026

PREPARED BY:
**CORE STATES GROUP**
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Philadelphia, PA 19107
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PREPARED FOR:
**McDonald's USA, LLC**

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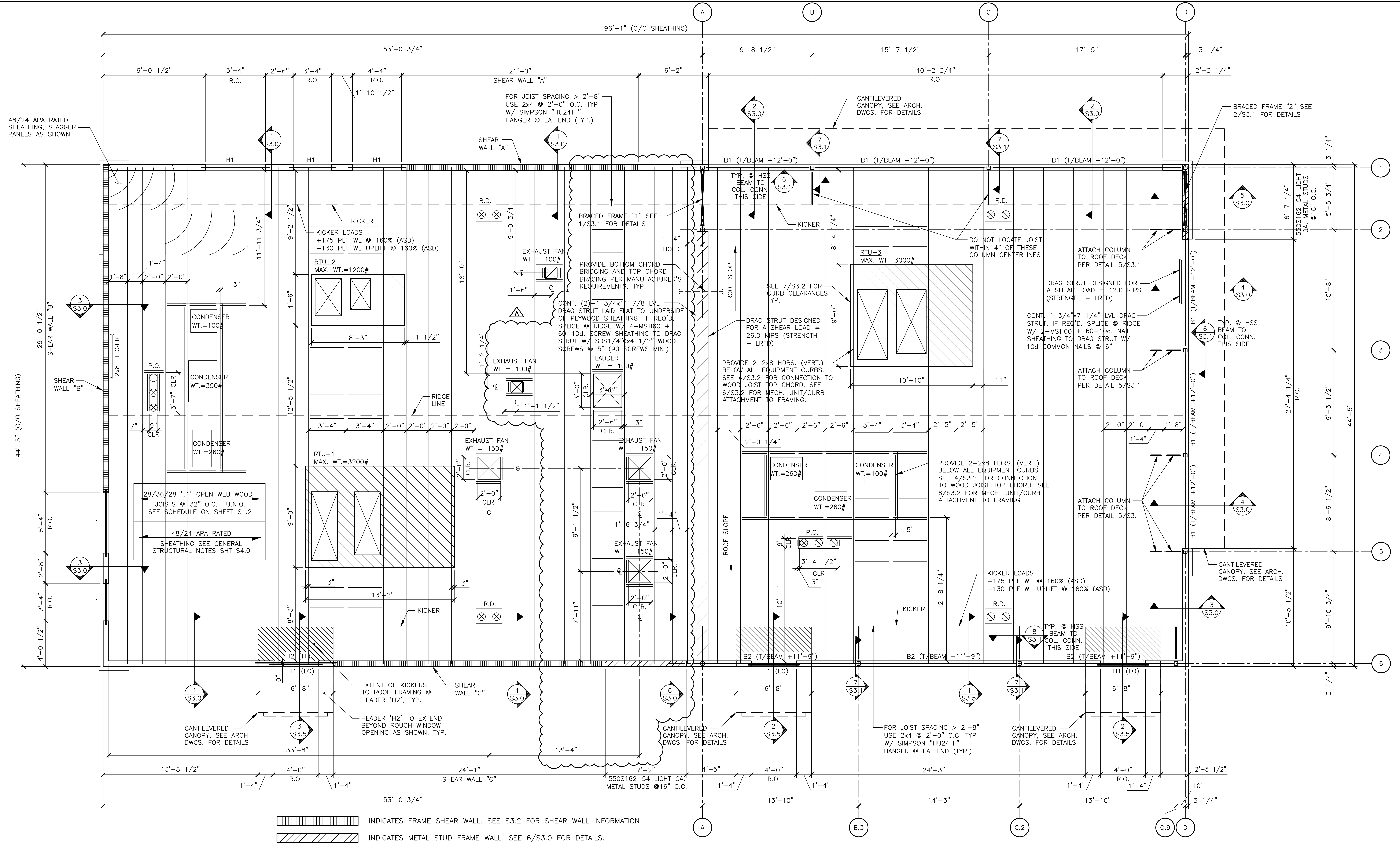
DRAWN BY
J.CARRAS
STD ISSUE DATE
2025 05
REVIEWED BY
Z.GROVE
DATE ISSUED
10-16-2025
C.S.G. PROJECT #
TKA.36772

TITLE
2025 STANDARD BUILDING - BB20
4597 - WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
S1.0
FOUNDATION PLAN


96'-1" (O/O SHEATHING)
53'-0 3/4"
9'-8 1/2"
15'-7 1/2"
17'-5"
3 1/4"
9'-0 1/2"
5'-4" R.O.
2'-6"
3'-4" R.O.
4'-4" R.O.
1'-10 1/2"
21'-0" SHEAR WALL "A"
6'-2"
40'-2 3/4" R.O.
2'-3 1/4"
48/24 APA RATED SHEATHING, STAGGER PANELS AS SHOWN.
FOR JOIST SPACING > 2'-8" USE 2x4 @ 2'-0" O.C. TYP W/ SIMPSON "HU24TF" HANGER @ EA. END (TYP.)
SHEAR WALL "A"
CANTILEVERED CANOPY, SEE ARCH. DWGS. FOR DETAILS
BRACED FRAME "2" SEE 2/S3.1 FOR DETAILS
H1
B1 (T/BEAM +12'-0")
TYP. @ HSS BEAM TO COL. CONN. THIS SIDE
KICKER
KICKER LOADS +175 PLF WL @ 160% (ASD) -130 PLF WL UPLIFT @ 160% (ASD)
R.D.
BRACED FRAME "1" SEE 1/S3.1 FOR DETAILS
1'-4" HOLD
PROVIDE BOTTOM CHORD BRIDGING AND TOP CHORD BRACING PER MANUFACTURER'S REQUIREMENTS. TYP.
CONT. (2)-1 3/4x11 7/8 LVL DRAG STRUT LAID FLAT TO UNDERSIDE OF PLYWOOD SHEATHING. IF REQ'D, SPLICE @ RIDGE W/ 4-MSTI60 + 60-10d. SCREW SHEATHING TO DRAG STRUT W/ SDS1/4"øx4 1/2" WOOD SCREWS @ 5" (90 SCREWS MIN.)
DO NOT LOCATE JOIST WITHIN 4" OF THESE COLUMN CENTERLINES
ATTACH COLUMN TO ROOF DECK PER DETAIL 5/S3.1
DRAG STRUT DESIGNED FOR A SHEAR LOAD = 12.0 KIPS (STRENGTH - LRFD)
CONT. 1 3/4"x7 1/4" LVL DRAG STRUT. IF REQ'D. SPLICE @ RIDGE W/ 2-MSTI60 + 60-10d. NAIL SHEATHING TO DRAG STRUT W/ 10d COMMON NAILS @ 6"
550S162-54 LIGHT GA. METAL STUDS @16" O.C.
SEE 7/S3.2 FOR CURB CLEARANCES, TYP.
DRAG STRUT DESIGNED FOR A SHEAR LOAD = 26.0 KIPS (STRENGTH - LRFD)
PROVIDE 2-2x8 HDRS. (VERT.) BELOW ALL EQUIPMENT CURBS. SEE 4/S3.2 FOR CONNECTION TO WOOD JOIST TOP CHORD. SEE 6/S3.2 FOR MECH. UNIT/CURB ATTACHMENT TO FRAMING.
RTU-2 MAX. WT.=1200#
RTU-3 MAX. WT.=3000#
RTU-1 MAX. WT.=3200#
EXHAUST FAN WT = 100#
EXHAUST FAN WT = 150#
LADDER WT = 100#
CONDENSER WT.=100#
CONDENSER WT.=350#
CONDENSER WT.=260#
P.O.
CLR.
RIDGE LINE
ROOF SLOPE
2x8 LEDGER
SHEAR WALL "B"
29'-0 1/2" SHEAR WALL "B"
44'-5" (O/O SHEATHING)
28/36/28 'J1' OPEN WEB WOOD JOISTS @ 32" O.C. U.N.O. SEE SCHEDULE ON SHEET S1.2
48/24 APA RATED SHEATHING SEE GENERAL STRUCTURAL NOTES SHT S4.0
H2 (HI)
H1 (LO)
B2 (T/BEAM +11'-9")
EXTENT OF KICKERS TO ROOF FRAMING @ HEADER 'H2', TYP.
HEADER 'H2' TO EXTEND BEYOND ROUGH WINDOW OPENING AS SHOWN, TYP.
SHEAR WALL "C"
24'-1" SHEAR WALL "C"
13'-8 1/2"
4'-0" R.O.
1'-4"
6'-8"
33'-8"
13'-4"
7'-2"
550S162-54 LIGHT GA. METAL STUDS @16" O.C.
4'-5"
24'-3"
13'-10"
14'-3"
2'-5 1/2"
10"
27'-4 1/4" R.O.
44'-5"
1 2 3 4 5 6
A B C D
A B.3 C.2 C.9 D
1/S3.0 2/S3.0 3/S3.0 4/S3.0 5/S3.0 6/S3.0
6/S3.1 7/S3.1 8/S3.1
1/S3.5 2/S3.5 3/S3.5

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

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

▧ INDICATES ALLOWABLE RTU PLACEMENT ZONE. RTU VENDOR/SUPPLIER, MODEL AND WEIGHTS SHALL BE VERIFIED PRIOR TO INSTALLATION FOR COORDINATION AND FINAL TRUSS DESIGN VERIFICATION. G.C. TO PROVIDE (2)-2x8 HDRS. BELOW RTU CURBS PER DETAIL 4/S3.2 AND COORDINATE LOCATIONS WITH MANUFACTURER CURB SPECIFICATIONS.

⊠ 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.

## 1/S1.2 FRAMING PLAN

1/4"=1'-0"

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

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.

### 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 | 20/20 | 28"/36"/28" | REDBUILT "RED-S" |
| | | | |
| | | | |
| | | | |
| | | | |

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

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 2/19/2026 | CHANGING WATER HEATER AND RTUS TO GAS, DECOR UPDATES | ZJG |

DAVID BALMA
NUMBER PE-2015003007
2/19/2026

PREPARED BY:
CORE STATES GROUP
1315 Walnut St
Suite 600
Philadelphia, PA 19107
215.609.4609
www.core-eng.com

PREPARED FOR:
McDonald's USA, LLC

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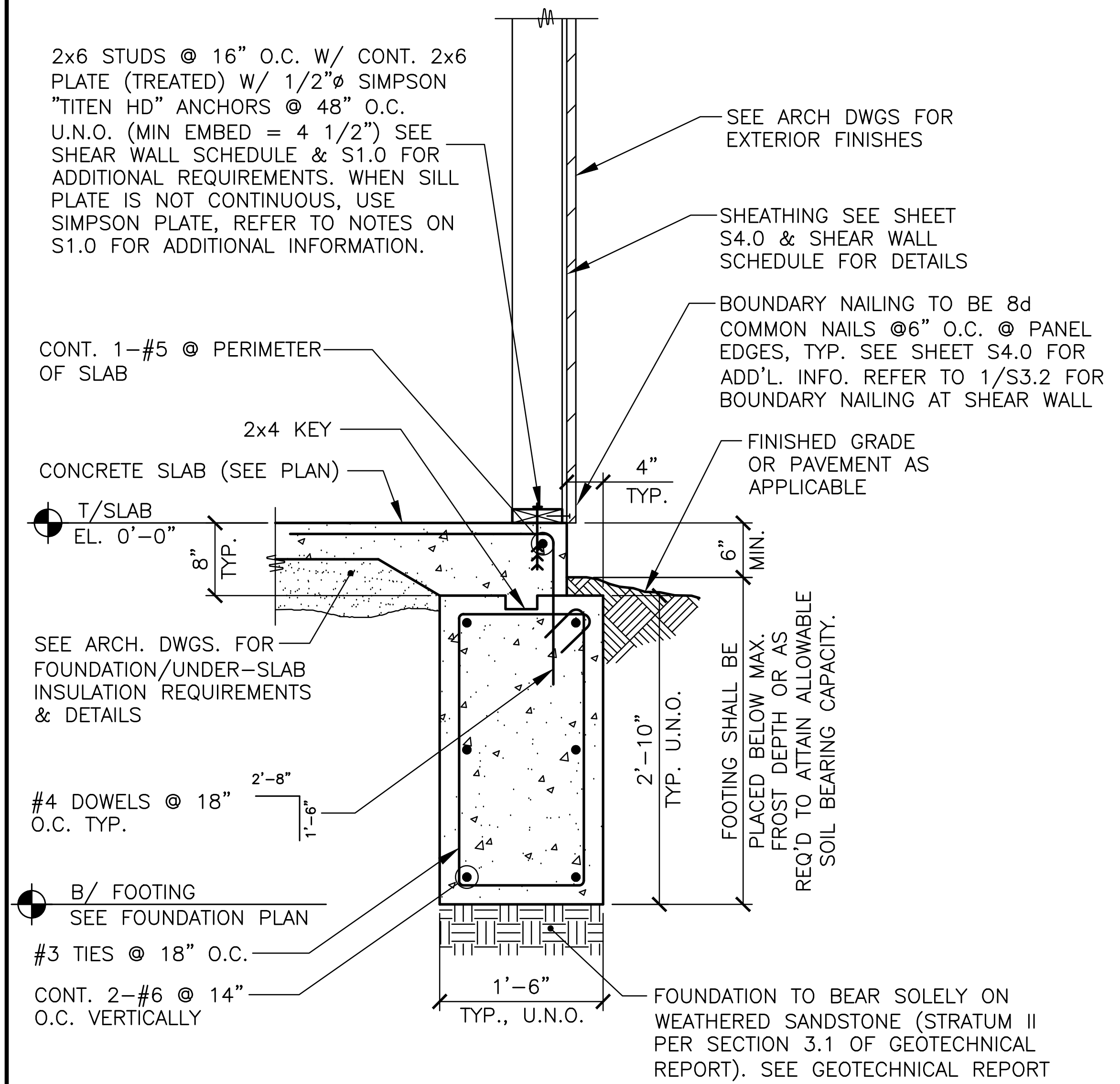
DRAWN BY J.CARRAS
STD ISSUE DATE 2025 05
REVIEWED BY Z.GROVE
DATE ISSUED 10-16-2025
C.S.G. PROJECT # TKA.36772

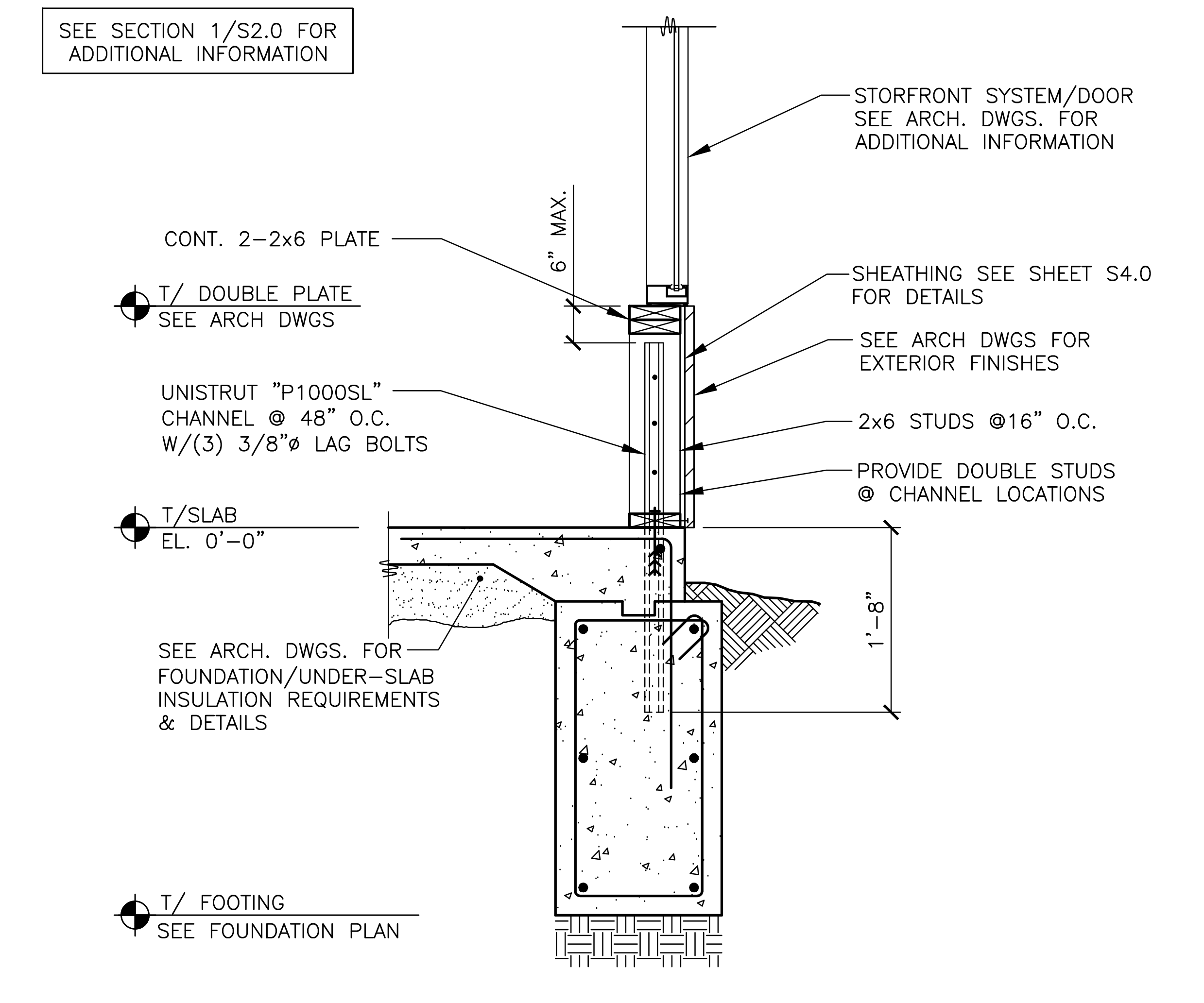
TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH
NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
S1.2
ROOF FRAMING PLAN


2x6 STUDS @ 16" O.C. W/ CONT. 2x6 PLATE (TREATED) W/ 1/2"ø SIMPSON "TITEN HD" ANCHORS @ 48" O.C. U.N.O. (MIN EMBED = 4 1/2") SEE SHEAR WALL SCHEDULE & S1.0 FOR ADDITIONAL REQUIREMENTS. WHEN SILL PLATE IS NOT CONTINUOUS, USE SIMPSON PLATE, REFER TO NOTES ON S1.0 FOR ADDITIONAL INFORMATION.
SEE ARCH DWGS FOR EXTERIOR FINISHES
SHEATHING SEE SHEET S4.0 & SHEAR WALL SCHEDULE FOR DETAILS
BOUNDARY NAILING TO BE 8d COMMON NAILS @6" O.C. @ PANEL EDGES, TYP. SEE SHEET S4.0 FOR ADD'L. INFO. REFER TO 1/S3.2 FOR BOUNDARY NAILING AT SHEAR WALL
CONT. 1-#5 @ PERIMETER OF SLAB
2x4 KEY
4" TYP.
FINISHED GRADE OR PAVEMENT AS APPLICABLE
CONCRETE SLAB (SEE PLAN)
T/SLAB EL. 0'-0"
8" TYP.
6" MIN.
SEE ARCH. DWGS. FOR FOUNDATION/UNDER-SLAB INSULATION REQUIREMENTS & DETAILS
2'-10" TYP. U.N.O.
FOOTING SHALL BE PLACED BELOW MAX. FROST DEPTH OR AS REQ'D TO ATTAIN ALLOWABLE SOIL BEARING CAPACITY.
#4 DOWELS @ 18" O.C. TYP.
2'-8"
1'-6"
B/ FOOTING SEE FOUNDATION PLAN
#3 TIES @ 18" O.C.
CONT. 2-#6 @ 14" O.C. VERTICALLY
1'-6" TYP., U.N.O.
FOUNDATION TO BEAR SOLELY ON WEATHERED SANDSTONE (STRATUM II PER SECTION 3.1 OF GEOTECHNICAL REPORT). SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

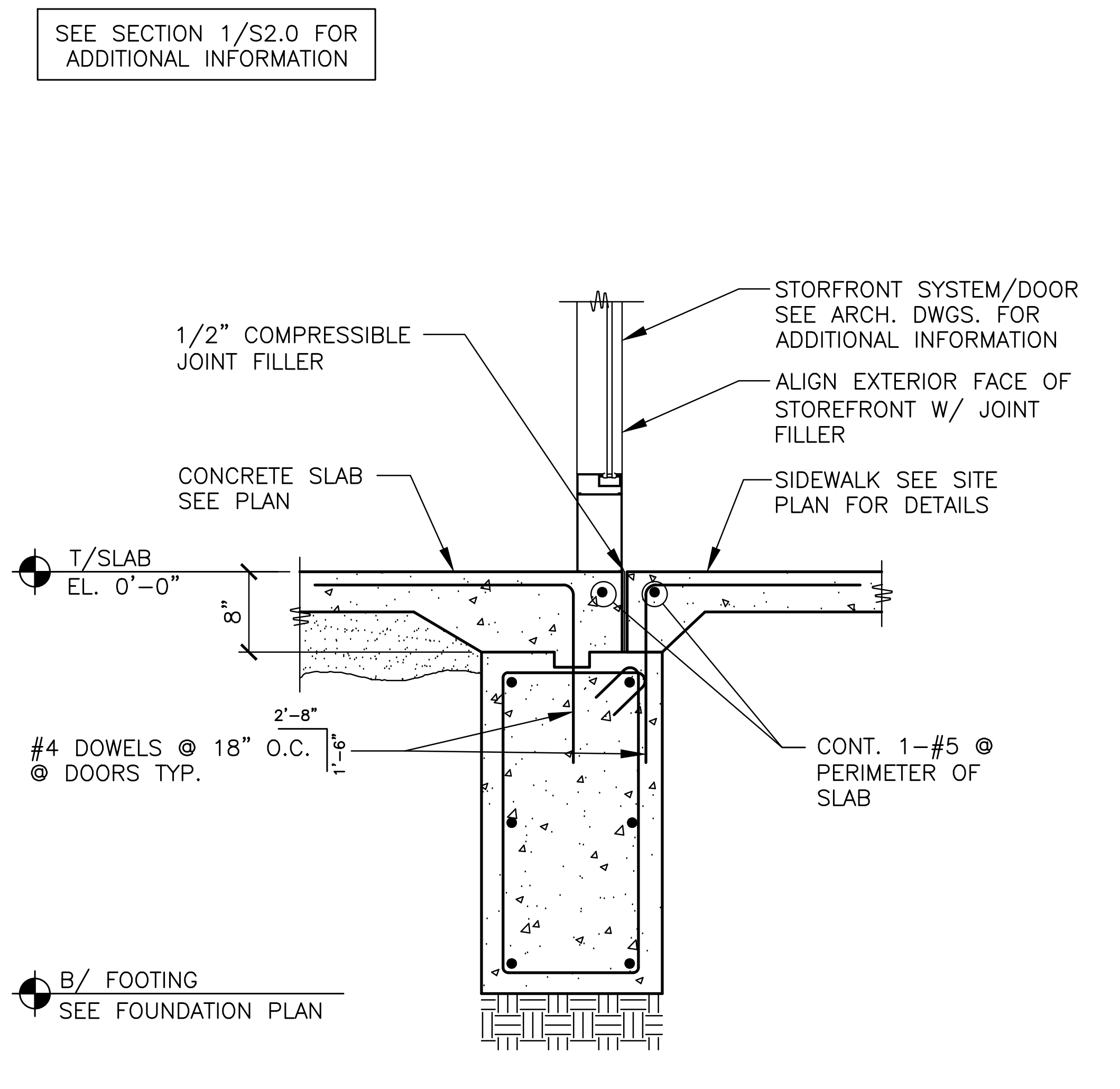
## 1 SECTION

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


SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION
STORFRONT SYSTEM/DOOR SEE ARCH. DWGS. FOR ADDITIONAL INFORMATION
CONT. 2-2x6 PLATE
6" MAX.
T/ DOUBLE PLATE SEE ARCH DWGS
SHEATHING SEE SHEET S4.0 FOR DETAILS
SEE ARCH DWGS FOR EXTERIOR FINISHES
UNISTRUT "P1000SL" CHANNEL @ 48" O.C. W/(3) 3/8"ø LAG BOLTS
2x6 STUDS @16" O.C.
PROVIDE DOUBLE STUDS @ CHANNEL LOCATIONS
T/SLAB EL. 0'-0"
1'-8"
SEE ARCH. DWGS. FOR FOUNDATION/UNDER-SLAB INSULATION REQUIREMENTS & DETAILS
T/ FOOTING SEE FOUNDATION PLAN

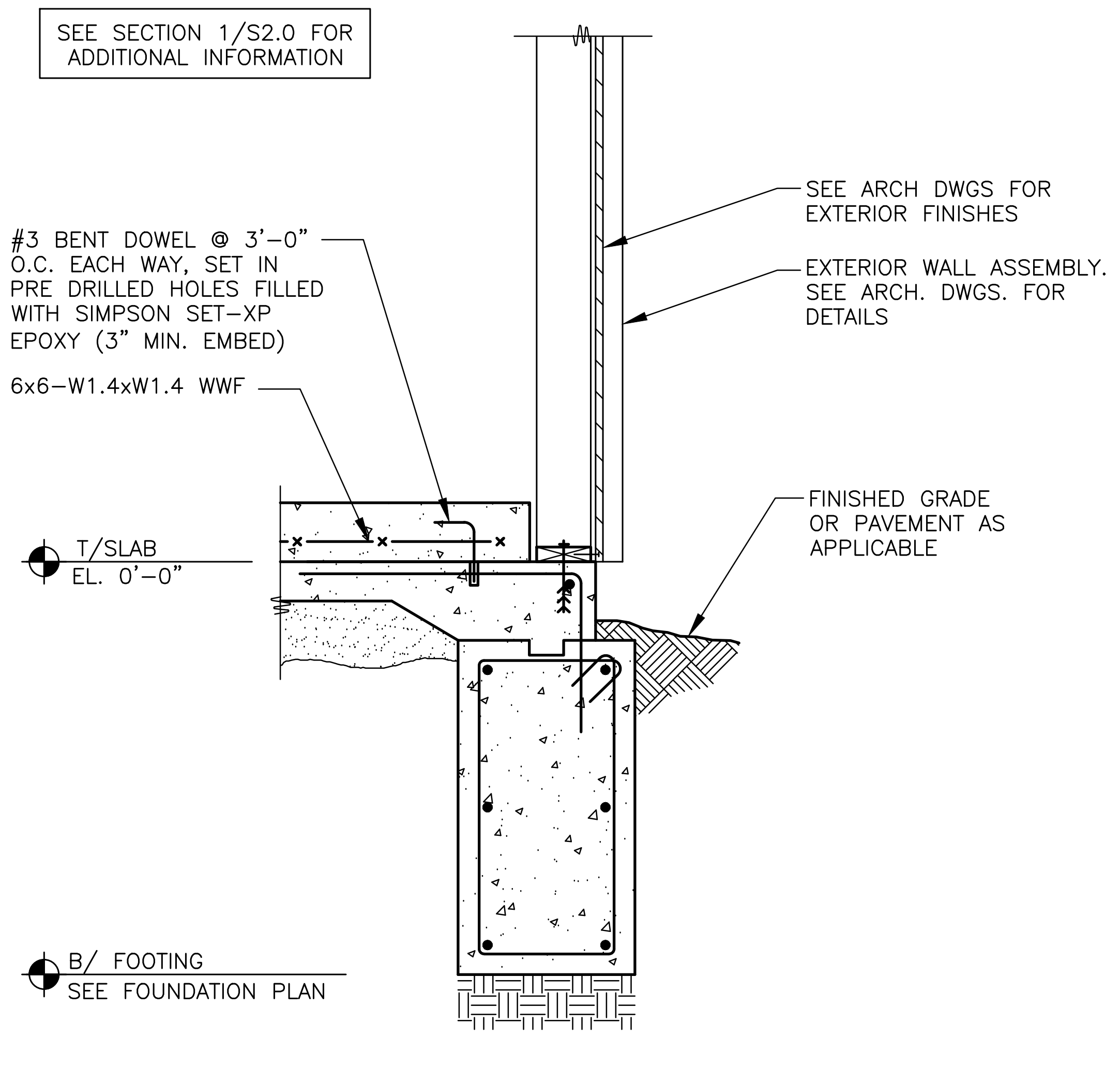
## 2 SECTION

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


SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION
STORFRONT SYSTEM/DOOR SEE ARCH. DWGS. FOR ADDITIONAL INFORMATION
1/2" COMPRESSIBLE JOINT FILLER
ALIGN EXTERIOR FACE OF STOREFRONT W/ JOINT FILLER
CONCRETE SLAB SEE PLAN
SIDEWALK SEE SITE PLAN FOR DETAILS
T/SLAB EL. 0'-0"
8"
2'-8"
#4 DOWELS @ 18" O.C. @ DOORS TYP.
1'-6"
CONT. 1-#5 @ PERIMETER OF SLAB
B/ FOOTING SEE FOUNDATION PLAN

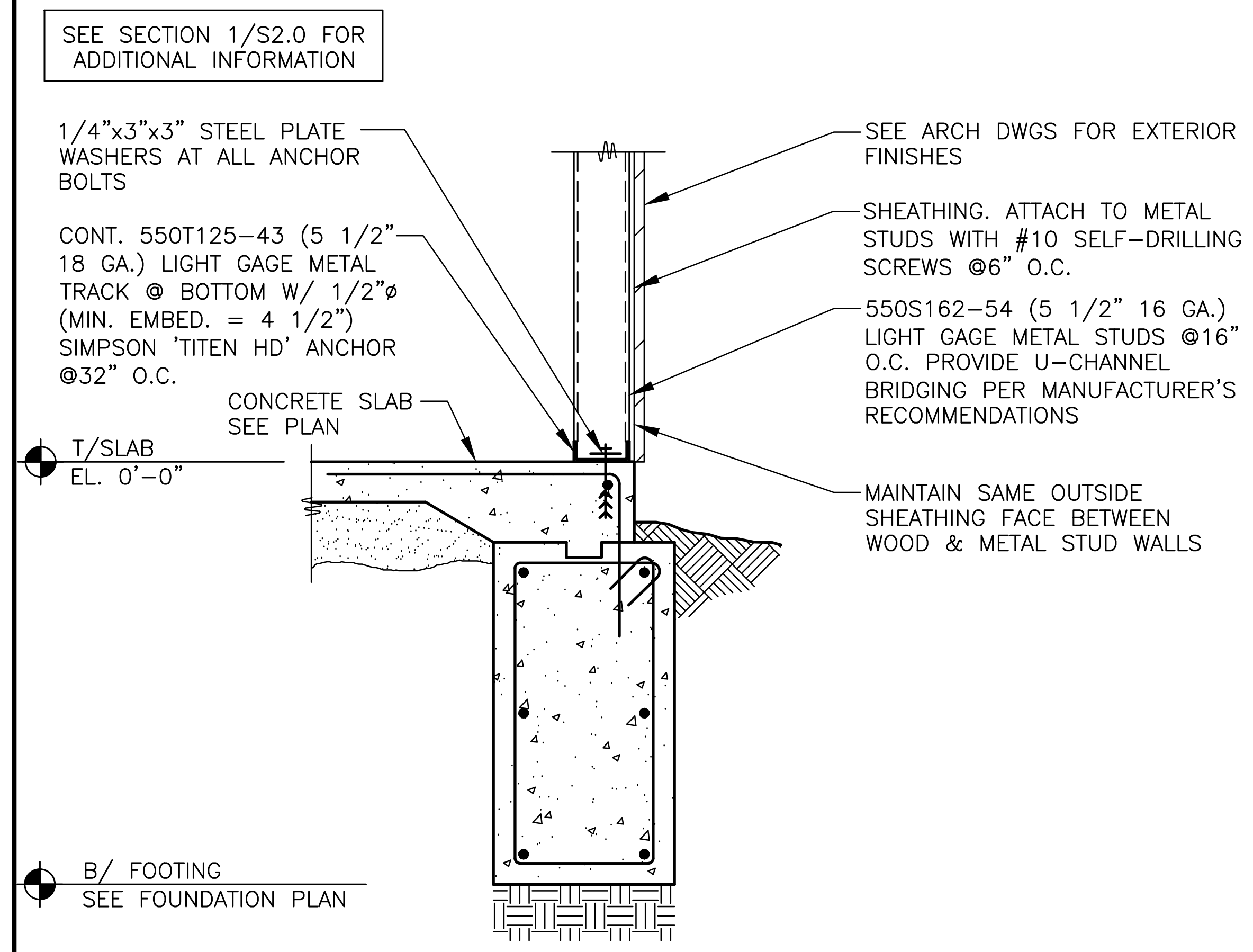
## 3 SECTION

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


SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION
SEE ARCH DWGS FOR EXTERIOR FINISHES
#3 BENT DOWEL @ 3'-0" O.C. EACH WAY, SET IN PRE DRILLED HOLES FILLED WITH SIMPSON SET-XP EPOXY (3" MIN. EMBED)
EXTERIOR WALL ASSEMBLY. SEE ARCH. DWGS. FOR DETAILS
6x6-W1.4xW1.4 WWF
FINISHED GRADE OR PAVEMENT AS APPLICABLE
T/SLAB EL. 0'-0"
B/ FOOTING SEE FOUNDATION PLAN

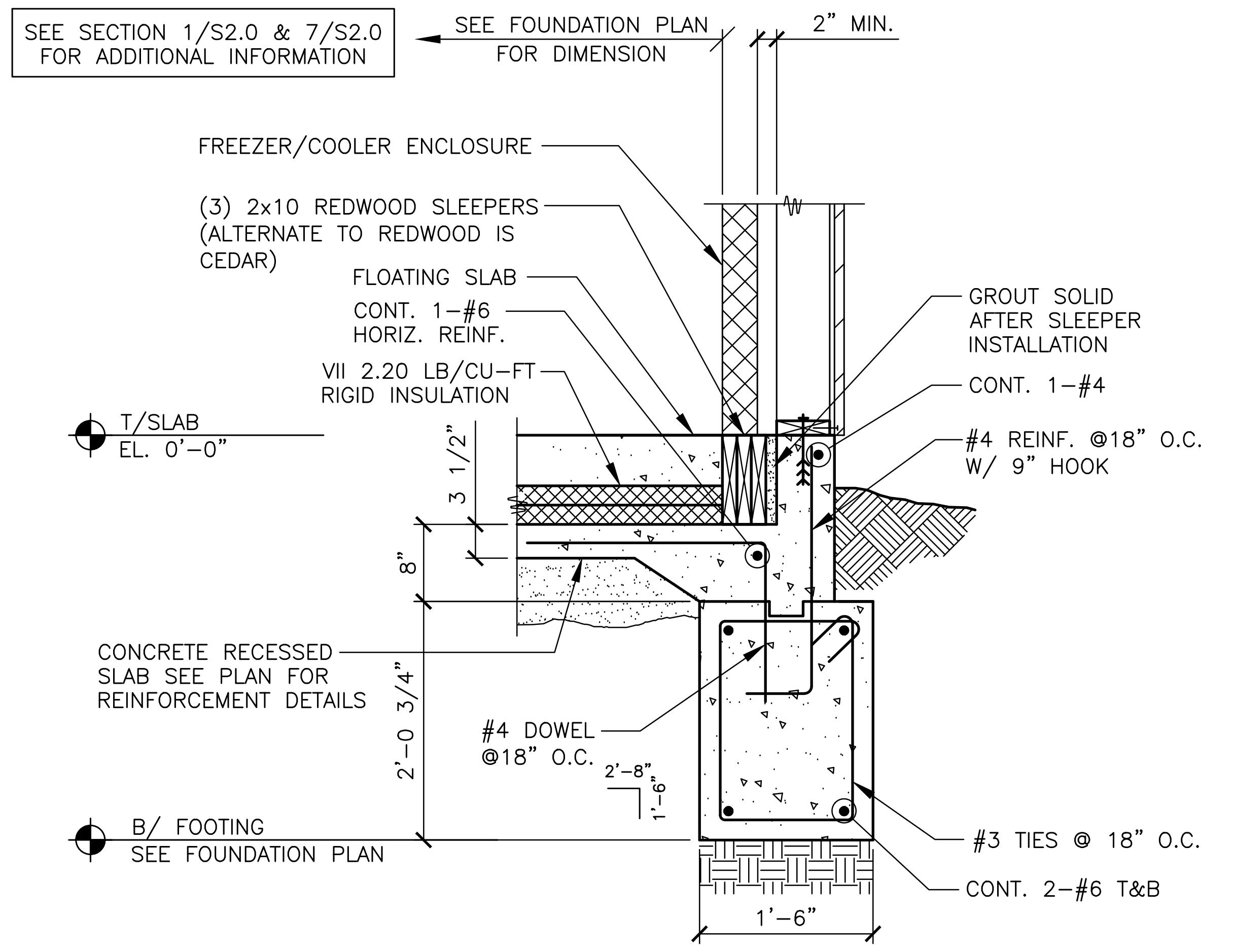
## 4 SECTION

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


SEE SECTION 1/S2.0 FOR ADDITIONAL INFORMATION
1/4"x3"x3" STEEL PLATE WASHERS AT ALL ANCHOR BOLTS
SEE ARCH DWGS FOR EXTERIOR FINISHES
SHEATHING. ATTACH TO METAL STUDS WITH #10 SELF-DRILLING SCREWS @6" O.C.
CONT. 550T125-43 (5 1/2" 18 GA.) LIGHT GAGE METAL TRACK @ BOTTOM W/ 1/2"ø (MIN. EMBED. = 4 1/2") SIMPSON "TITEN HD" ANCHOR @32" O.C.
550S162-54 (5 1/2" 16 GA.) LIGHT GAGE METAL STUDS @16" O.C. PROVIDE U-CHANNEL BRIDGING PER MANUFACTURER'S RECOMMENDATIONS
CONCRETE SLAB SEE PLAN
T/SLAB EL. 0'-0"
MAINTAIN SAME OUTSIDE SHEATHING FACE BETWEEN WOOD & METAL STUD WALLS
B/ FOOTING SEE FOUNDATION PLAN

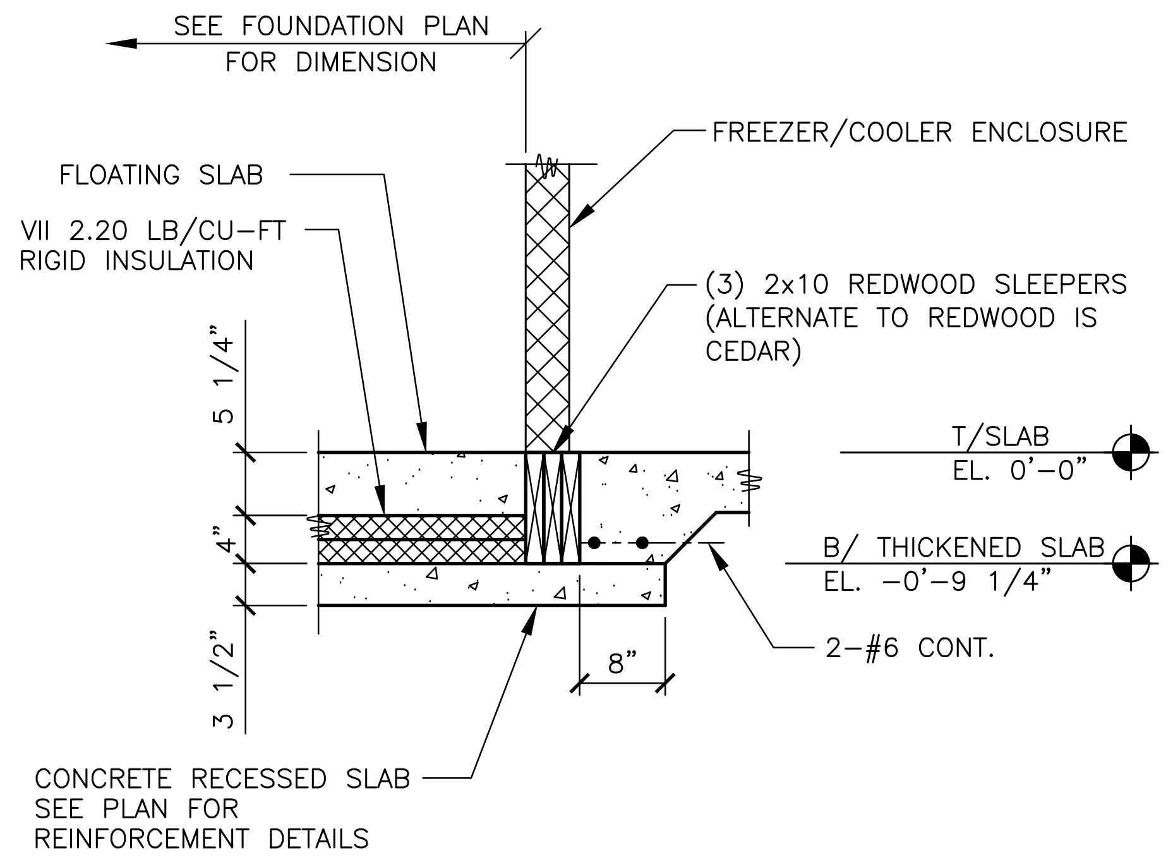
## 5 SECTION

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


SEE SECTION 1/S2.0 & 7/S2.0 FOR ADDITIONAL INFORMATION
SEE FOUNDATION PLAN FOR DIMENSION
2" MIN.
FREEZER/COOLER ENCLOSURE
(3) 2x10 REDWOOD SLEEPERS (ALTERNATE TO REDWOOD IS CEDAR)
FLOATING SLAB
CONT. 1-#6 HORIZ. REINF.
VII 2.20 LB/CU-FT RIGID INSULATION
GROUT SOLID AFTER SLEEPER INSTALLATION
CONT. 1-#4
#4 REINF. @18" O.C. W/ 9" HOOK
T/SLAB EL. 0'-0"
3 1/2"
8"
CONCRETE RECESSED SLAB SEE PLAN FOR REINFORCEMENT DETAILS
2'-0 3/4"
#4 DOWEL @18" O.C.
2'-8"
1'-6"
B/ FOOTING SEE FOUNDATION PLAN
#3 TIES @ 18" O.C.
CONT. 2-#6 T&B
1'-6"

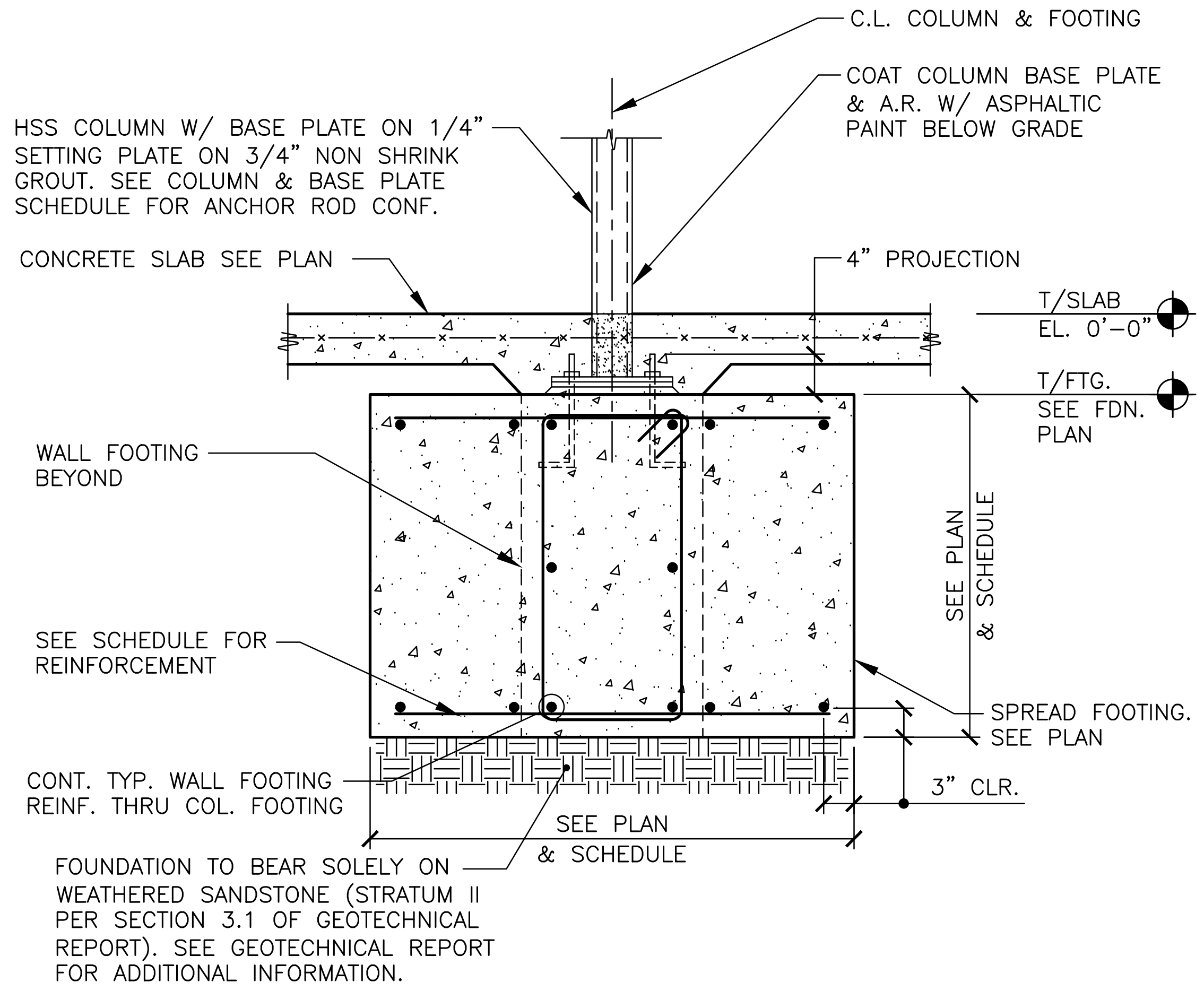
## 6 SECTION

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


SEE FOUNDATION PLAN FOR DIMENSION
FLOATING SLAB
FREEZER/COOLER ENCLOSURE
VII 2.20 LB/CU-FT RIGID INSULATION
(3) 2x10 REDWOOD SLEEPERS (ALTERNATE TO REDWOOD IS CEDAR)
5 1/4"
T/SLAB EL. 0'-0"
4"
B/ THICKENED SLAB EL. -0'-9 1/4"
3 1/2"
8"
2-#6 CONT.
CONCRETE RECESSED SLAB SEE PLAN FOR REINFORCEMENT DETAILS

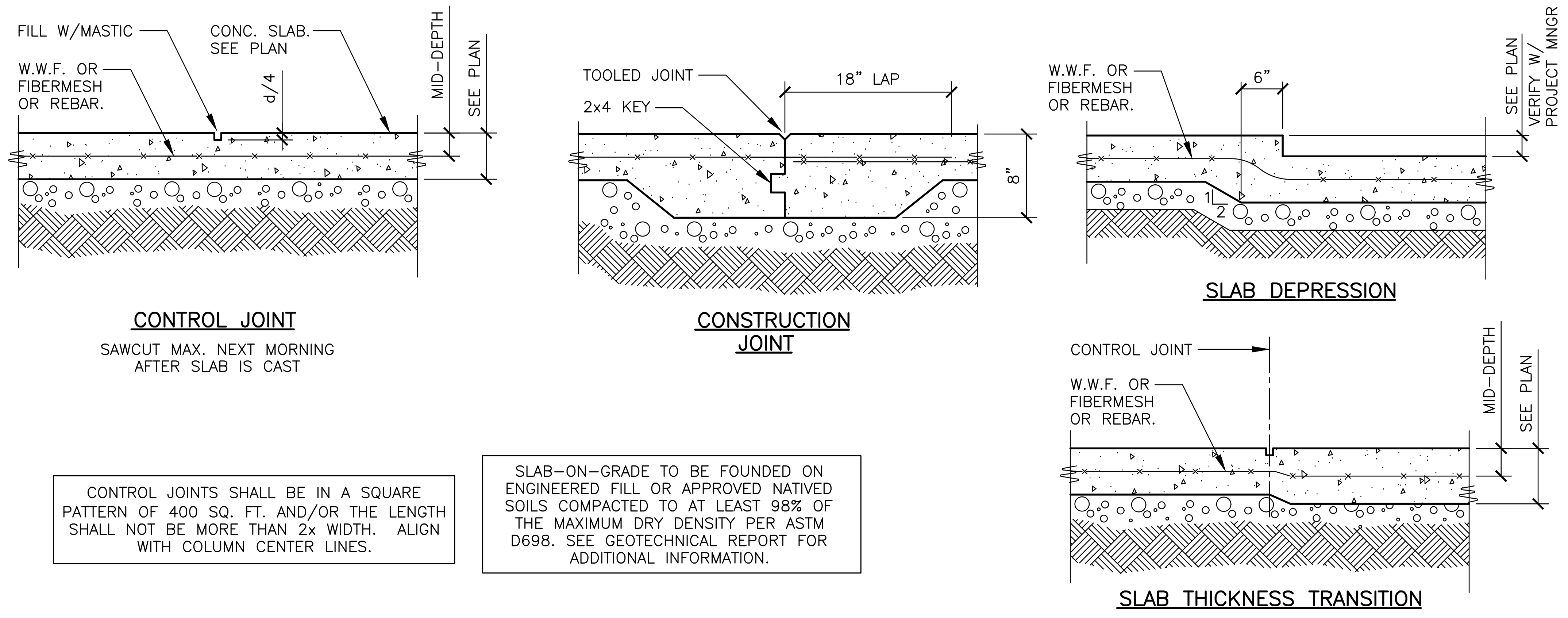
## 7 SECTION

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


C.L. COLUMN & FOOTING
COAT COLUMN BASE PLATE & A.R. W/ ASPHALTIC PAINT BELOW GRADE
HSS COLUMN W/ BASE PLATE ON 1/4" SETTING PLATE ON 3/4" NON SHRINK GROUT. SEE COLUMN & BASE PLATE SCHEDULE FOR ANCHOR ROD CONF.
CONCRETE SLAB SEE PLAN
4" PROJECTION
T/SLAB EL. 0'-0"
T/FTG. SEE FDN. PLAN
WALL FOOTING BEYOND
SEE PLAN & SCHEDULE
SEE SCHEDULE FOR REINFORCEMENT
SPREAD FOOTING. SEE PLAN
CONT. TYP. WALL FOOTING REINF. THRU COL. FOOTING
3" CLR.
SEE PLAN & SCHEDULE
FOUNDATION TO BEAR SOLELY ON WEATHERED SANDSTONE (STRATUM II PER SECTION 3.1 OF GEOTECHNICAL REPORT). SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

## 8 ISOLATED COLUMN FOOTING DETAIL

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


FILL W/MASTIC
CONC. SLAB. SEE PLAN
W.W.F. OR FIBERMESH OR REBAR.
d/4
MID-DEPTH
SEE PLAN
TOOLED JOINT
18" LAP
2x4 KEY
8"
W.W.F. OR FIBERMESH OR REBAR.
6"
SEE PLAN VERIFY W/ PROJECT MNGR
1
2
CONTROL JOINT
W.W.F. OR FIBERMESH OR REBAR.
MID-DEPTH
SEE PLAN

CONTROL JOINT

SAWCUT MAX. NEXT MORNING AFTER SLAB IS CAST

CONSTRUCTION JOINT

SLAB DEPRESSION

SLAB THICKNESS TRANSITION

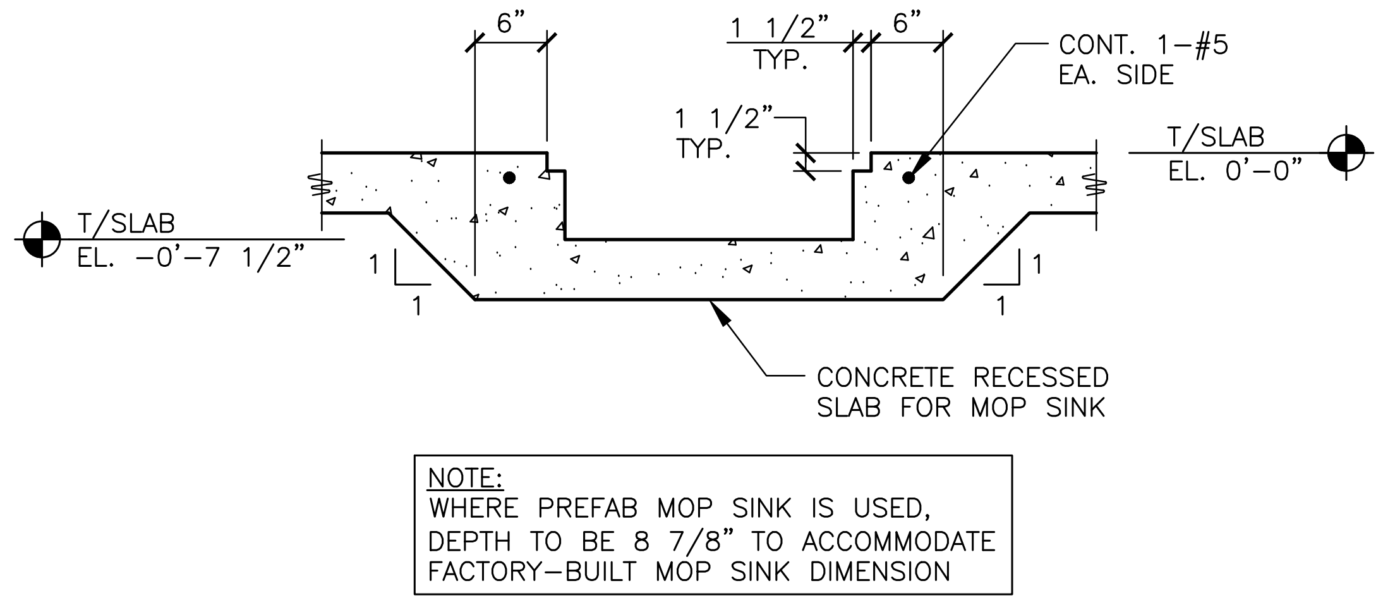
SEE CONTROL JOINT DETAIL FOR ADDITIONAL INFORMATION

CONTROL JOINTS SHALL BE IN A SQUARE PATTERN OF 400 SQ. FT. AND/OR THE LENGTH SHALL NOT BE MORE THAN 2x WIDTH. ALIGN WITH COLUMN CENTER LINES.

SLAB-ON-GRADE TO BE FOUNDED ON ENGINEERED FILL OR APPROVED NATIVED SOILS COMPACTED TO AT LEAST 98% OF THE MAXIMUM DRY DENSITY PER ASTM D698. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

## 9 SLAB ON GRADE DETAILS

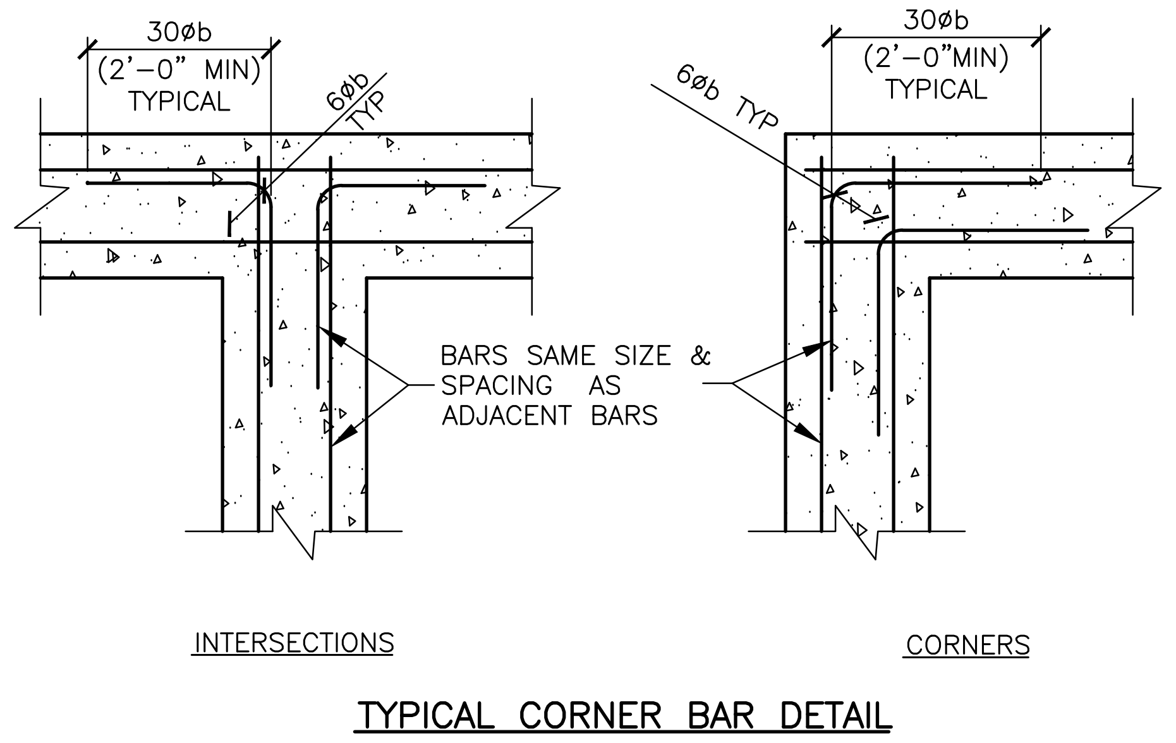
S2.0 N.T.S.



NOTE:
WHERE PREFAB MOP SINK IS USED, DEPTH TO BE 8 7/8" TO ACCOMMODATE FACTORY-BUILT MOP SINK DIMENSION

## 10 RECESSED SLAB DETAIL

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



TYPICAL CORNER BAR DETAIL

## 11 CORNER BAR DETAILS

S2.0 N.T.S.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| - | - | - | - |

DAVID BALMA
NUMBER PE-2015003007
2/19/2026

PREPARED BY:
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PREPARED FOR:
McDonald's USA, LLC

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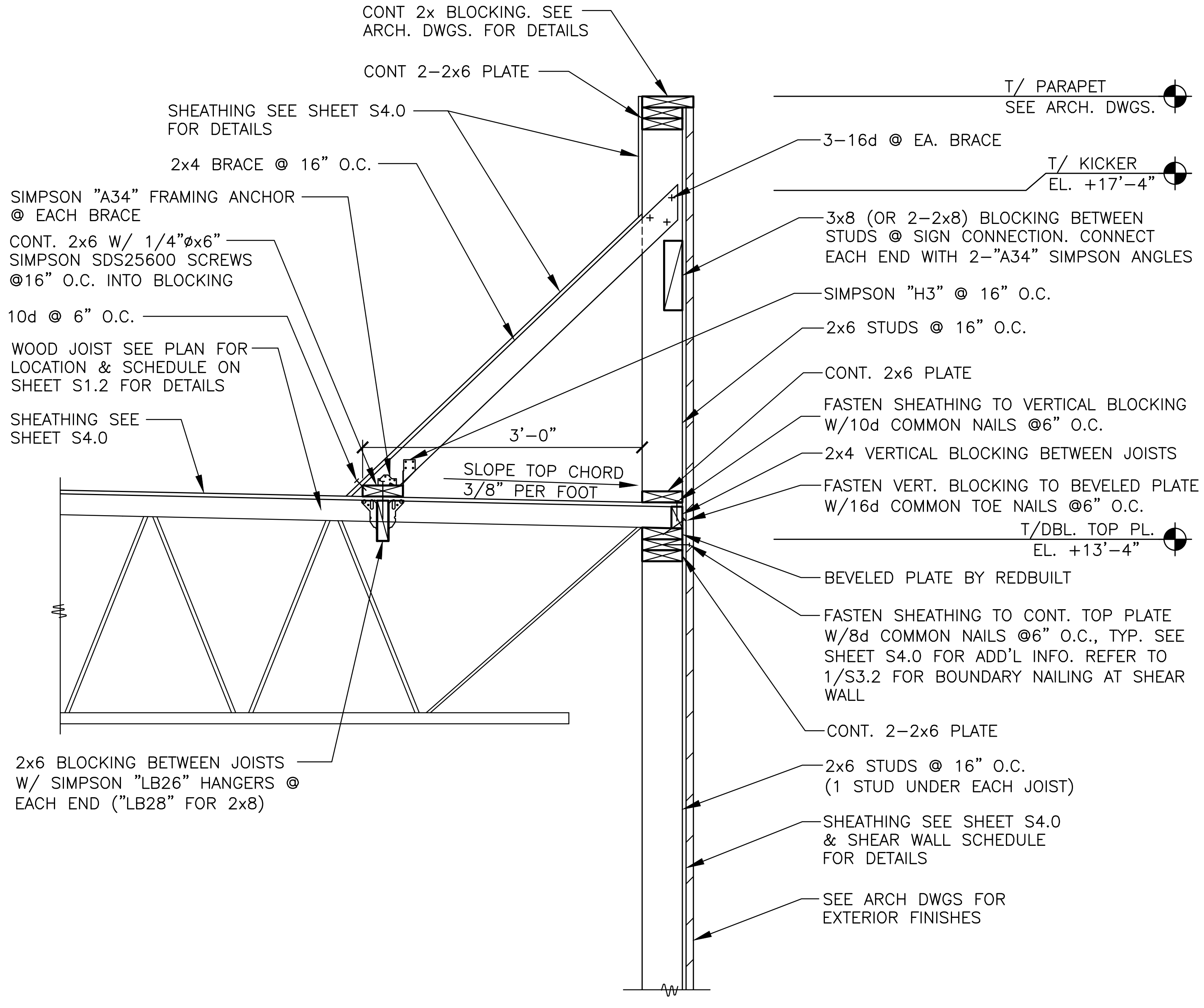
DRAWN BY J.CARRAS
STD ISSUE DATE 2025 05
REVIEWED BY Z.GROVE
DATE ISSUED 10-16-2025
C.S.G. PROJECT # TKA.36772

TITLE
2025 STANDARD BUILDING - BB20
4597 - WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

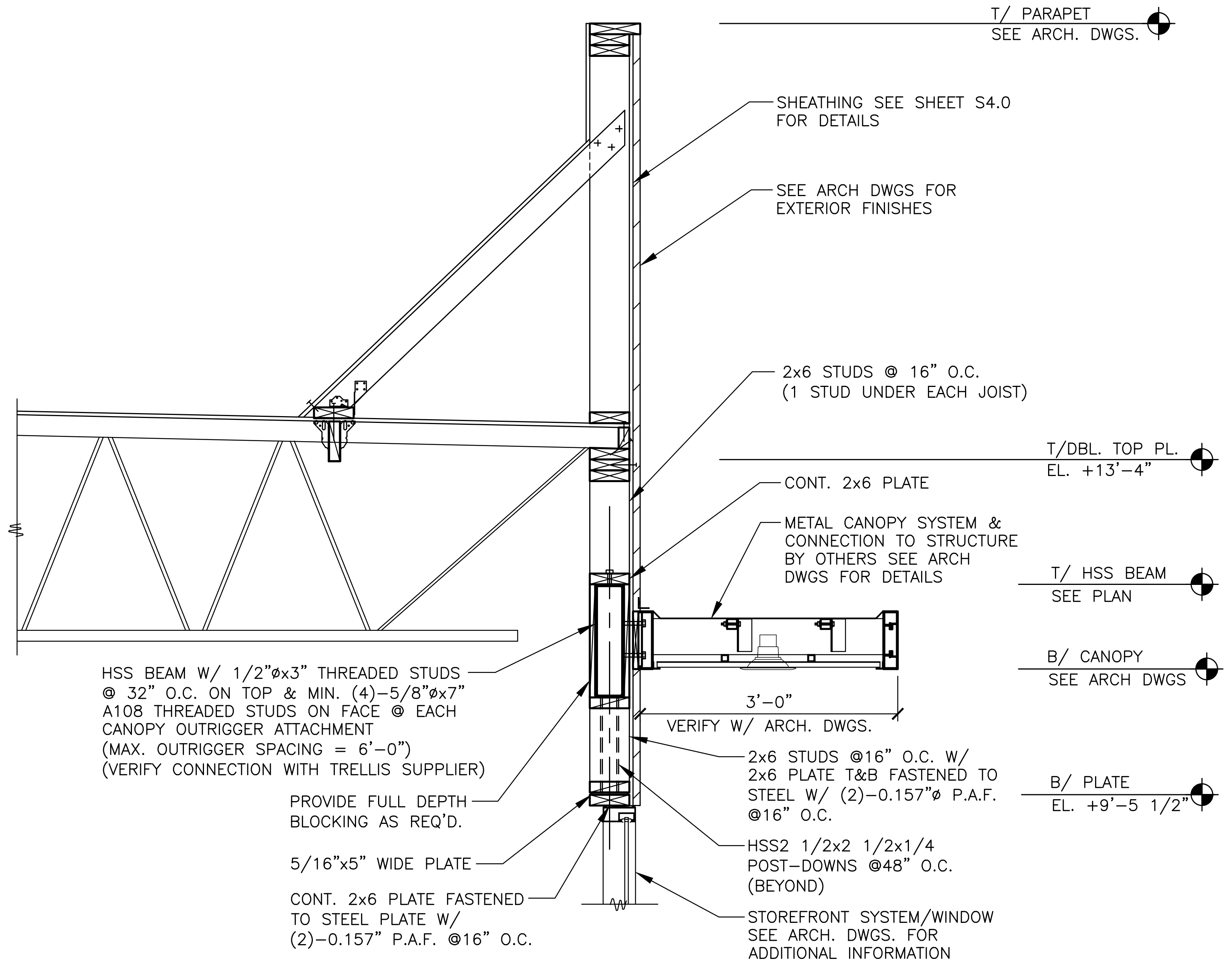
SHEET NO.
024-0281.00.0
S2.0
FOUNDATION SECTIONS


CONT 2x BLOCKING. SEE ARCH. DWGS. FOR DETAILS
CONT 2–2x6 PLATE
SHEATHING SEE SHEET S4.0 FOR DETAILS
2x4 BRACE @ 16" O.C.
SIMPSON "A34" FRAMING ANCHOR @ EACH BRACE
CONT. 2x6 W/ 1/4"ø x6" SIMPSON SDS25600 SCREWS @16" O.C. INTO BLOCKING
10d @ 6" O.C.
WOOD JOIST SEE PLAN FOR LOCATION & SCHEDULE ON SHEET S1.2 FOR DETAILS
SHEATHING SEE SHEET S4.0
3'–0"
SLOPE TOP CHORD 3/8" PER FOOT
2x6 BLOCKING BETWEEN JOISTS W/ SIMPSON "LB26" HANGERS @ EACH END ("LB28" FOR 2x8)
T/ PARAPET SEE ARCH. DWGS.
3–16d @ EA. BRACE
T/ KICKER EL. +17'–4"
3x8 (OR 2–2x8) BLOCKING BETWEEN STUDS @ SIGN CONNECTION. CONNECT EACH END WITH 2–"A34" SIMPSON ANGLES
SIMPSON "H3" @ 16" O.C.
2x6 STUDS @ 16" O.C.
CONT. 2x6 PLATE
FASTEN SHEATHING TO VERTICAL BLOCKING W/10d COMMON NAILS @6" O.C.
2x4 VERTICAL BLOCKING BETWEEN JOISTS
FASTEN VERT. BLOCKING TO BEVELED PLATE W/16d COMMON TOE NAILS @6" O.C.
T/DBL. TOP PL. EL. +13'–4"
BEVELED PLATE BY REDBUILT
FASTEN SHEATHING TO CONT. TOP PLATE W/8d COMMON NAILS @6" O.C., TYP. SEE SHEET S4.0 FOR ADD'L INFO. REFER TO 1/S3.2 FOR BOUNDARY NAILING AT SHEAR WALL
CONT. 2–2x6 PLATE
2x6 STUDS @ 16" O.C. (1 STUD UNDER EACH JOIST)
SHEATHING SEE SHEET S4.0 & SHEAR WALL SCHEDULE FOR DETAILS
SEE ARCH DWGS FOR EXTERIOR FINISHES

### 1/S3.0 SECTION

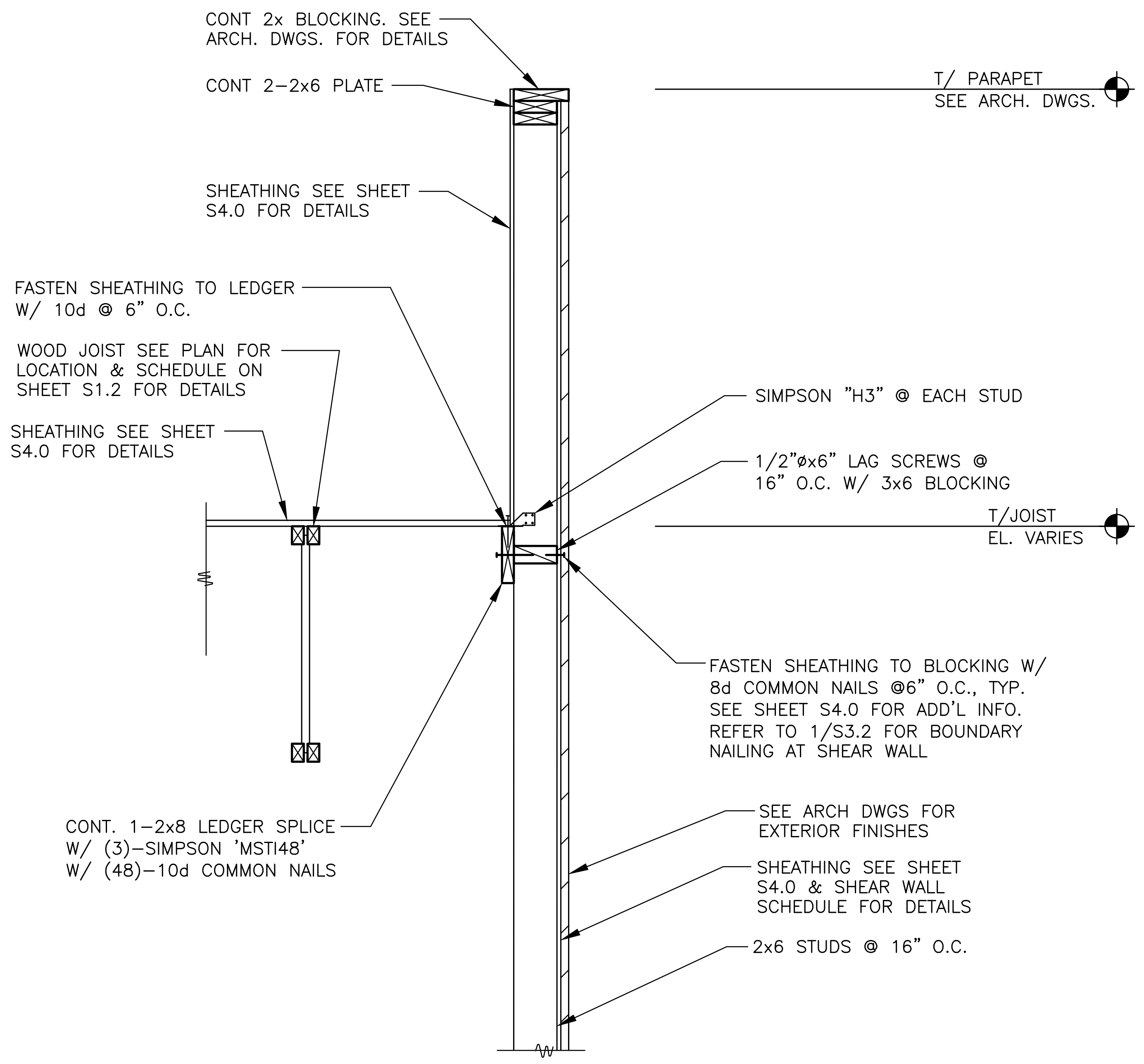
3/4" = 1'–0"

SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION


T/ PARAPET SEE ARCH. DWGS.
SHEATHING SEE SHEET S4.0 FOR DETAILS
SEE ARCH DWGS FOR EXTERIOR FINISHES
2x6 STUDS @ 16" O.C. (1 STUD UNDER EACH JOIST)
T/DBL. TOP PL. EL. +13'–4"
CONT. 2x6 PLATE
METAL CANOPY SYSTEM & CONNECTION TO STRUCTURE BY OTHERS SEE ARCH DWGS FOR DETAILS
T/ HSS BEAM SEE PLAN
B/ CANOPY SEE ARCH DWGS
3'–0"
VERIFY W/ ARCH. DWGS.
B/ PLATE EL. +9'–5 1/2"
HSS BEAM W/ 1/2"ø x3" THREADED STUDS @ 32" O.C. ON TOP & MIN. (4)–5/8"ø x7" A108 THREADED STUDS ON FACE @ EACH CANOPY OUTRIGGER ATTACHMENT (MAX. OUTRIGGER SPACING = 6'–0") (VERIFY CONNECTION WITH TRELLIS SUPPLIER)
PROVIDE FULL DEPTH BLOCKING AS REQ'D.
5/16"x5" WIDE PLATE
CONT. 2x6 PLATE FASTENED TO STEEL PLATE W/ (2)–0.157" P.A.F. @16" O.C.
2x6 STUDS @16" O.C. W/ 2x6 PLATE T&B FASTENED TO STEEL W/ (2)–0.157"ø P.A.F. @16" O.C.
HSS2 1/2x2 1/2x1/4 POST–DOWNS @48" O.C. (BEYOND)
STOREFRONT SYSTEM/WINDOW SEE ARCH. DWGS. FOR ADDITIONAL INFORMATION

### 2/S3.0 SECTION

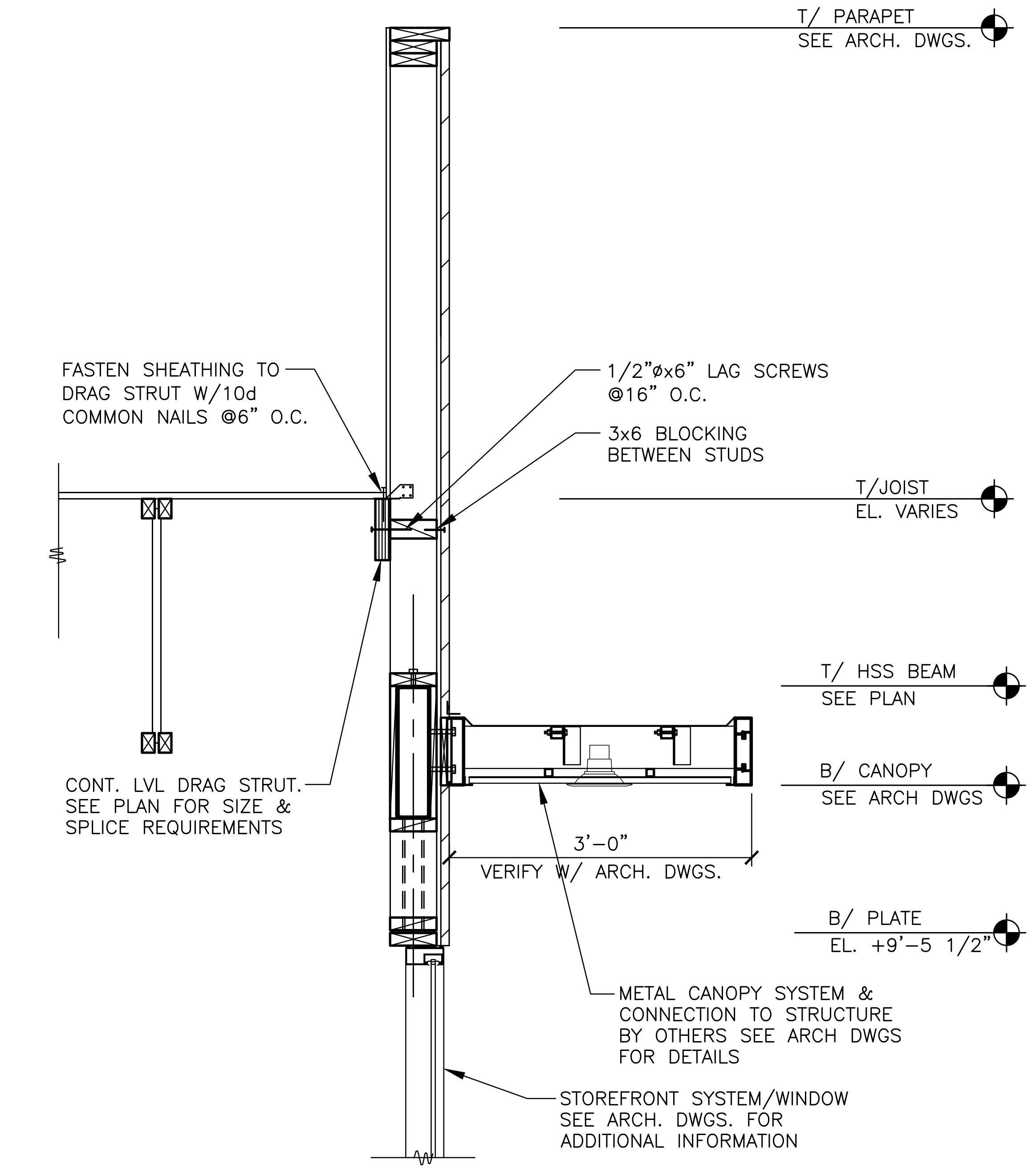
3/4" = 1'–0"


CONT 2x BLOCKING. SEE ARCH. DWGS. FOR DETAILS
CONT 2–2x6 PLATE
T/ PARAPET SEE ARCH. DWGS.
SHEATHING SEE SHEET S4.0 FOR DETAILS
FASTEN SHEATHING TO LEDGER W/ 10d @ 6" O.C.
WOOD JOIST SEE PLAN FOR LOCATION & SCHEDULE ON SHEET S1.2 FOR DETAILS
SHEATHING SEE SHEET S4.0 FOR DETAILS
SIMPSON "H3" @ EACH STUD
1/2"ø x6" LAG SCREWS @ 16" O.C. W/ 3x6 BLOCKING
T/JOIST EL. VARIES
FASTEN SHEATHING TO BLOCKING W/ 8d COMMON NAILS @6" O.C., TYP. SEE SHEET S4.0 FOR ADD'L INFO. REFER TO 1/S3.2 FOR BOUNDARY NAILING AT SHEAR WALL
CONT. 1–2x8 LEDGER SPLICE W/ (3)–SIMPSON 'MSTI48' W/ (48)–10d COMMON NAILS
SEE ARCH DWGS FOR EXTERIOR FINISHES
SHEATHING SEE SHEET S4.0 & SHEAR WALL SCHEDULE FOR DETAILS
2x6 STUDS @ 16" O.C.

### 3/S3.0 SECTION

3/4" = 1'–0"

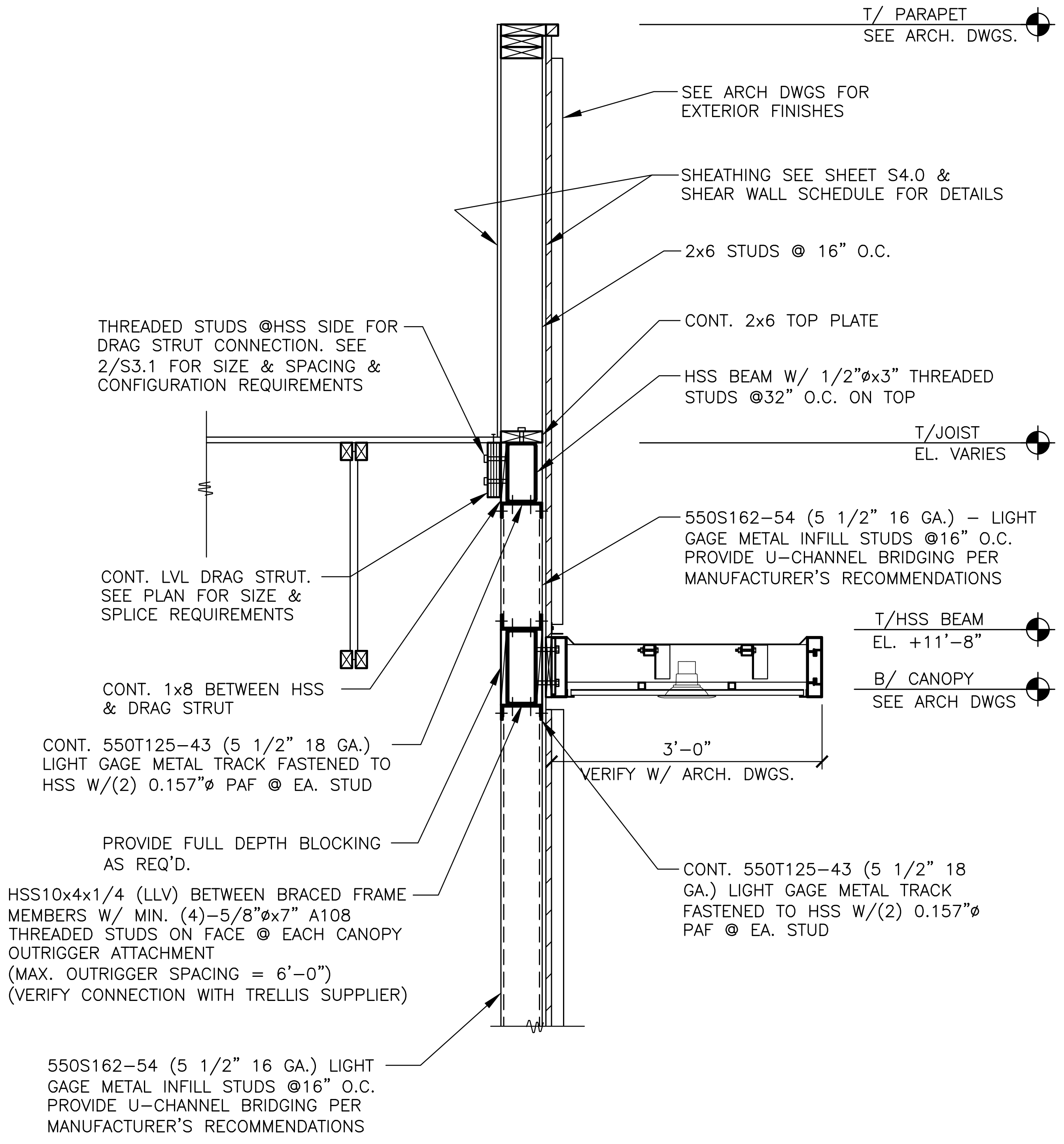
SEE SECTION 2/S3.0 & 3/S3.0 FOR ADDITIONAL INFORMATION


T/ PARAPET SEE ARCH. DWGS.
FASTEN SHEATHING TO DRAG STRUT W/10d COMMON NAILS @6" O.C.
1/2"ø x6" LAG SCREWS @16" O.C.
3x6 BLOCKING BETWEEN STUDS
T/JOIST EL. VARIES
T/ HSS BEAM SEE PLAN
B/ CANOPY SEE ARCH DWGS
CONT. LVL DRAG STRUT. SEE PLAN FOR SIZE & SPLICE REQUIREMENTS
3'–0"
VERIFY W/ ARCH. DWGS.
B/ PLATE EL. +9'–5 1/2"
METAL CANOPY SYSTEM & CONNECTION TO STRUCTURE BY OTHERS SEE ARCH DWGS FOR DETAILS
STOREFRONT SYSTEM/WINDOW SEE ARCH. DWGS. FOR ADDITIONAL INFORMATION

### 4/S3.0 SECTION

3/4" = 1'–0"

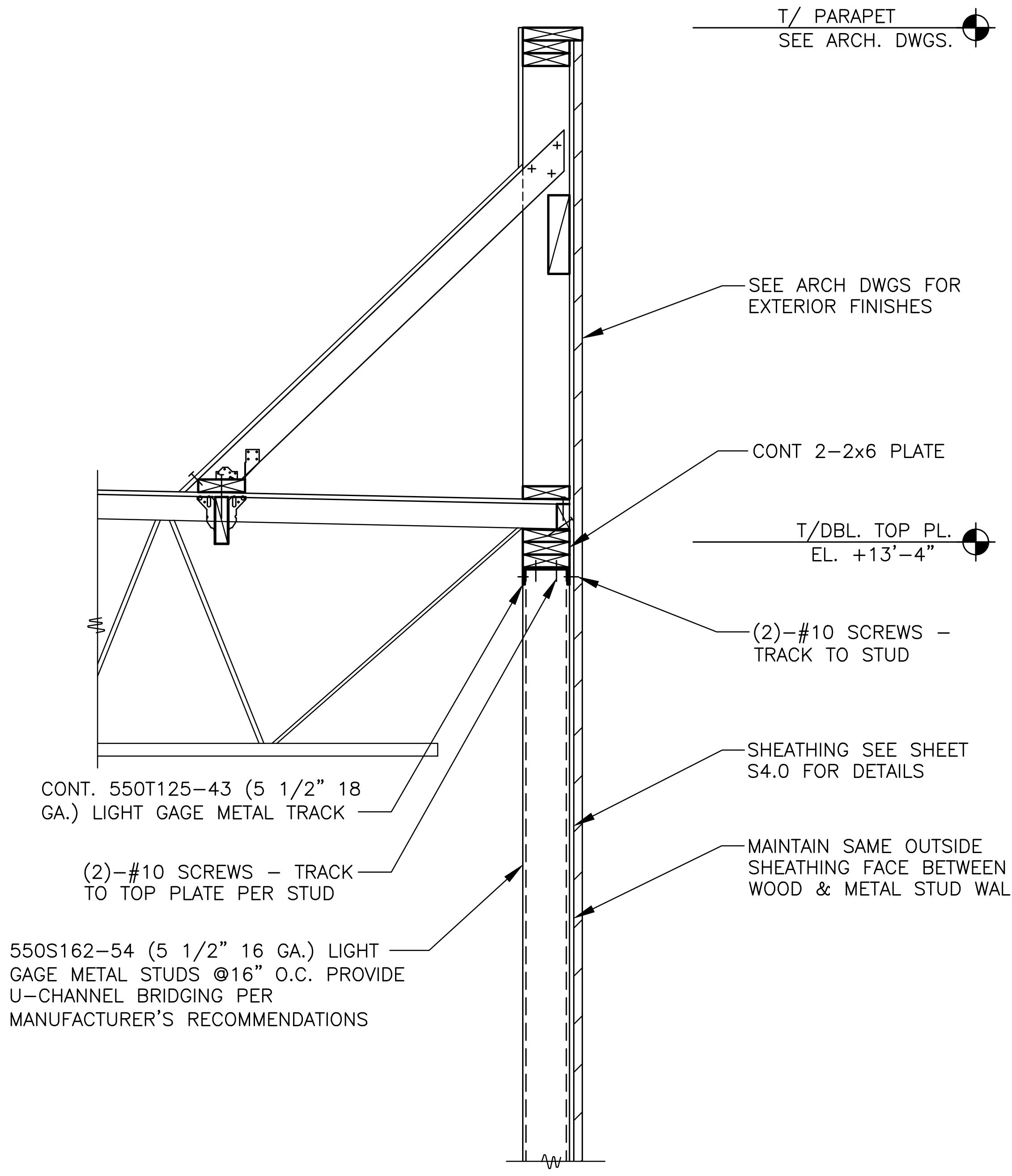
SEE SECTION 4/S3.0 FOR ADDITIONAL INFORMATION


T/ PARAPET SEE ARCH. DWGS.
SEE ARCH DWGS FOR EXTERIOR FINISHES
SHEATHING SEE SHEET S4.0 & SHEAR WALL SCHEDULE FOR DETAILS
2x6 STUDS @ 16" O.C.
CONT. 2x6 TOP PLATE
HSS BEAM W/ 1/2"ø x3" THREADED STUDS @32" O.C. ON TOP
T/JOIST EL. VARIES
THREADED STUDS @HSS SIDE FOR DRAG STRUT CONNECTION. SEE 2/S3.1 FOR SIZE & SPACING & CONFIGURATION REQUIREMENTS
550S162–54 (5 1/2" 16 GA.) – LIGHT GAGE METAL INFILL STUDS @16" O.C. PROVIDE U–CHANNEL BRIDGING PER MANUFACTURER'S RECOMMENDATIONS
CONT. LVL DRAG STRUT. SEE PLAN FOR SIZE & SPLICE REQUIREMENTS
T/HSS BEAM EL. +11'–8"
B/ CANOPY SEE ARCH DWGS
CONT. 1x8 BETWEEN HSS & DRAG STRUT
CONT. 550T125–43 (5 1/2" 18 GA.) LIGHT GAGE METAL TRACK FASTENED TO HSS W/(2) 0.157"ø PAF @ EA. STUD
3'–0"
VERIFY W/ ARCH. DWGS.
PROVIDE FULL DEPTH BLOCKING AS REQ'D.
HSS10x4x1/4 (LLV) BETWEEN BRACED FRAME MEMBERS W/ MIN. (4)–5/8"ø x7" A108 THREADED STUDS ON FACE @ EACH CANOPY OUTRIGGER ATTACHMENT (MAX. OUTRIGGER SPACING = 6'–0") (VERIFY CONNECTION WITH TRELLIS SUPPLIER)
CONT. 550T125–43 (5 1/2" 18 GA.) LIGHT GAGE METAL TRACK FASTENED TO HSS W/(2) 0.157"ø PAF @ EA. STUD
550S162–54 (5 1/2" 16 GA.) LIGHT GAGE METAL INFILL STUDS @16" O.C. PROVIDE U–CHANNEL BRIDGING PER MANUFACTURER'S RECOMMENDATIONS

### 5/S3.0 SECTION

3/4" = 1'–0"

SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION


T/ PARAPET SEE ARCH. DWGS.
SEE ARCH DWGS FOR EXTERIOR FINISHES
CONT 2–2x6 PLATE
T/DBL. TOP PL. EL. +13'–4"
(2)–#10 SCREWS – TRACK TO STUD
CONT. 550T125–43 (5 1/2" 18 GA.) LIGHT GAGE METAL TRACK
SHEATHING SEE SHEET S4.0 FOR DETAILS
(2)–#10 SCREWS – TRACK TO TOP PLATE PER STUD
MAINTAIN SAME OUTSIDE SHEATHING FACE BETWEEN WOOD & METAL STUD WALLS
550S162–54 (5 1/2" 16 GA.) LIGHT GAGE METAL STUDS @16" O.C. PROVIDE U–CHANNEL BRIDGING PER MANUFACTURER'S RECOMMENDATIONS

### 6/S3.0 SECTION

3/4" = 1'–0"

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| – | – | – | – |

DAVID BALMA
NUMBER PE-2015003007
2/19/2026

PREPARED BY:
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PREPARED FOR:
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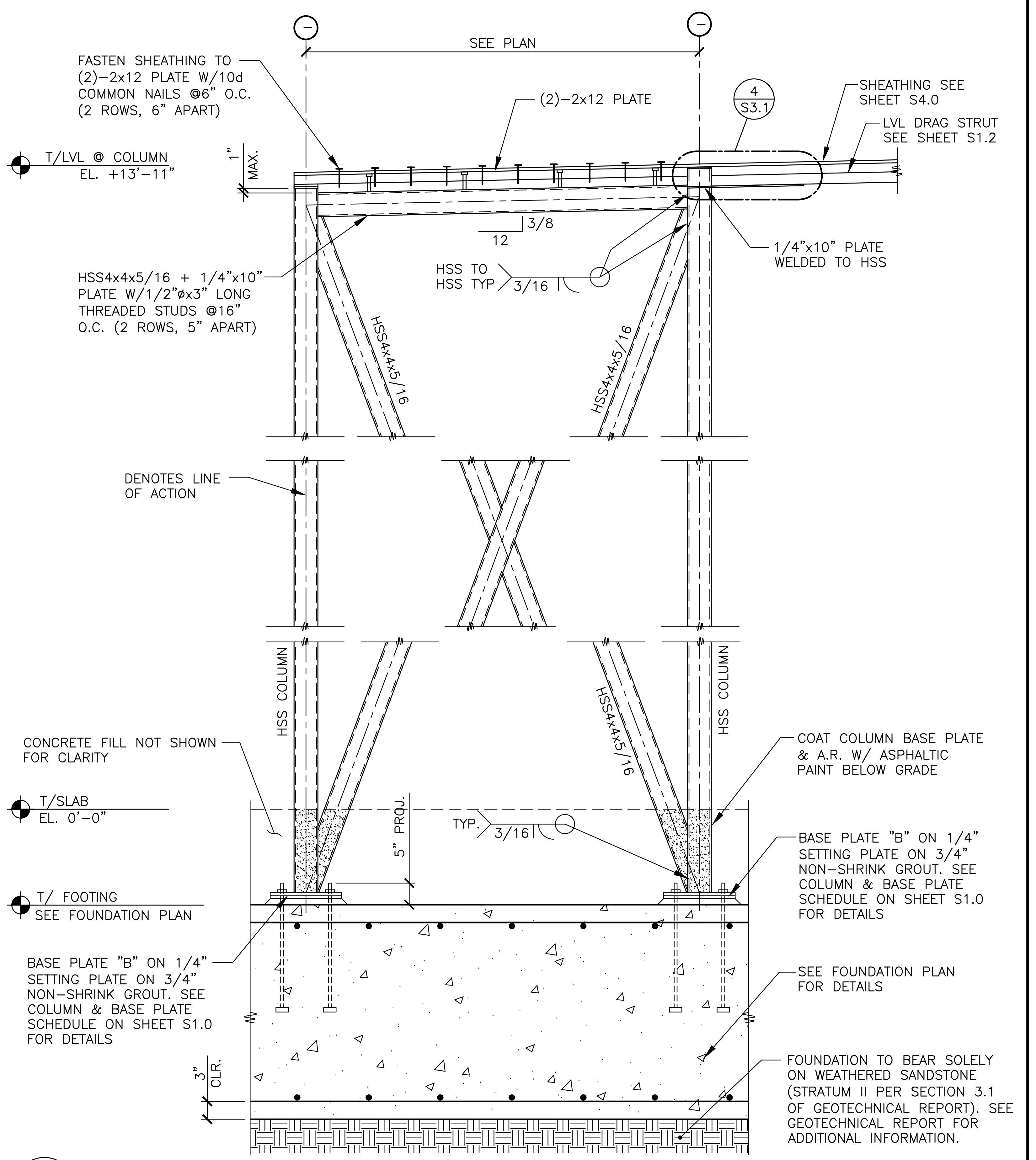
DRAWN BY: J.CARRAS
STD ISSUE DATE: 2025 05
REVIEWED BY: Z.GROVE
DATE ISSUED: 10–16–2025
C.S.G. PROJECT #: TKA.36772

TITLE: 2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

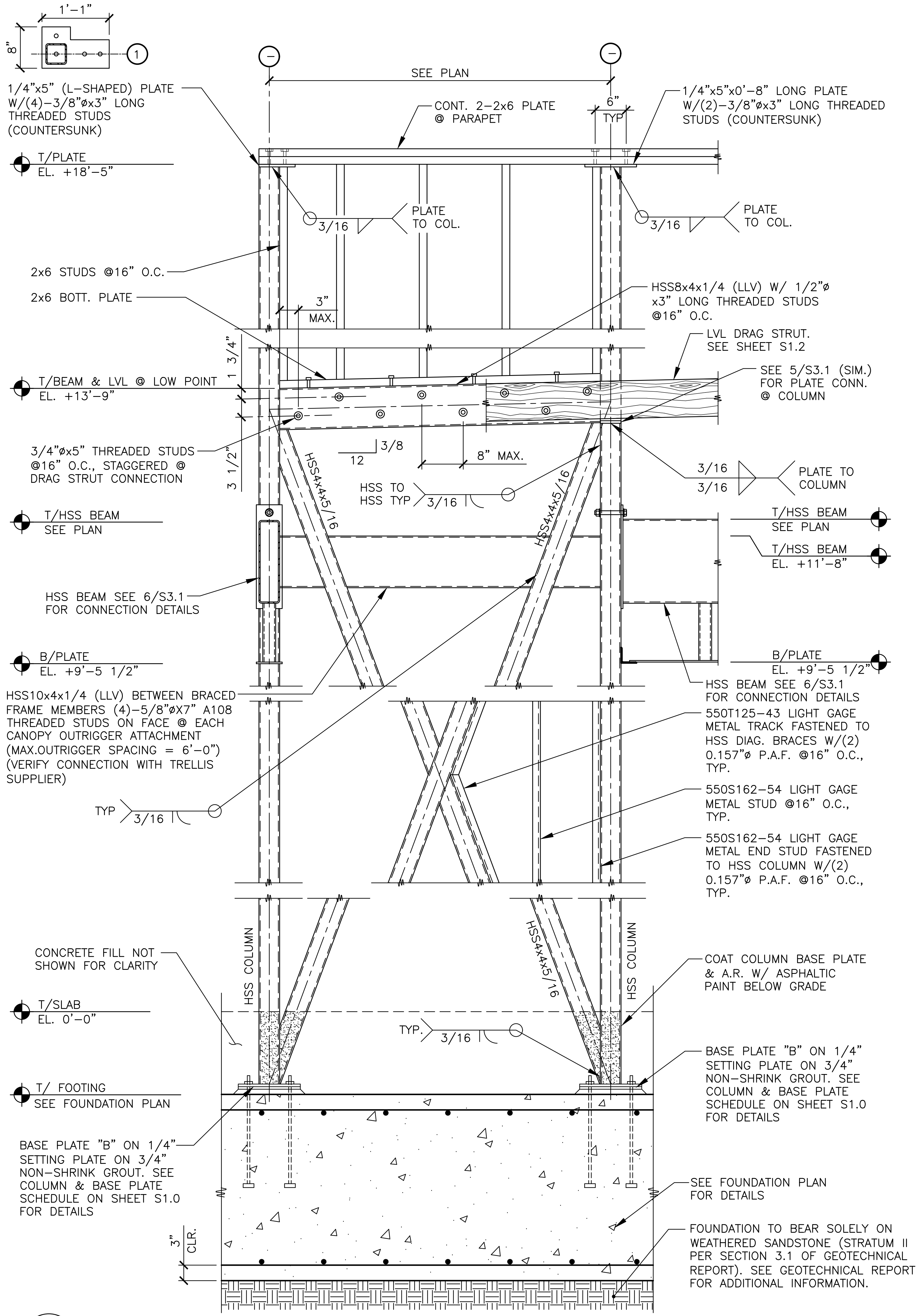
DESCRIPTION:
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS: 490 AMERICANA, BOONVILLE, MO, 65233–9756

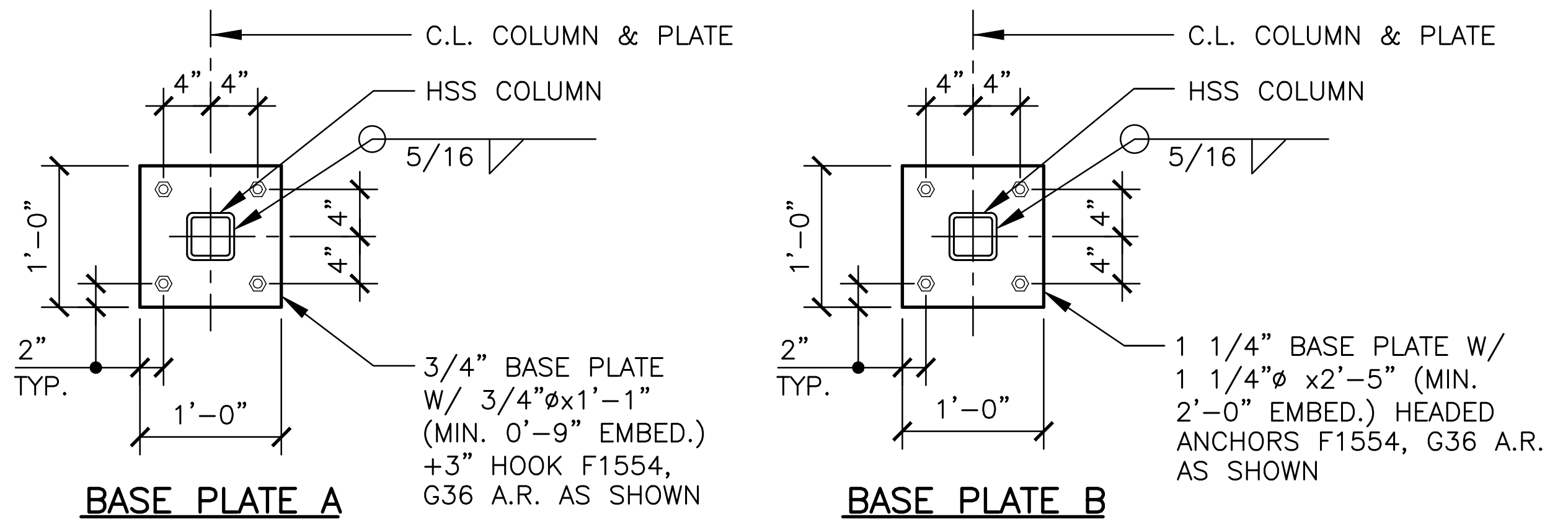
SHEET NO.
024–0281.00.0
**S3.0**
FRAMING SECTIONS


SEE PLAN
FASTEN SHEATHING TO (2)–2x12 PLATE W/10d COMMON NAILS @6" O.C. (2 ROWS, 6" APART)
(2)–2x12 PLATE
4
S3.1
SHEATHING SEE SHEET S4.0
LVL DRAG STRUT SEE SHEET S1.2
T/LVL @ COLUMN
EL. +13'–11"
1" MAX.
12
3/8
1/4"x10" PLATE WELDED TO HSS
HSS TO HSS TYP 3/16
HSS4x4x5/16 + 1/4"x10" PLATE W/1/2"ø x3" LONG THREADED STUDS @16" O.C. (2 ROWS, 5" APART)
HSS4x4x5/16
HSS4x4x5/16
DENOTES LINE OF ACTION
HSS COLUMN
HSS4x4x5/16
HSS COLUMN
CONCRETE FILL NOT SHOWN FOR CLARITY
COAT COLUMN BASE PLATE & A.R. W/ ASPHALTIC PAINT BELOW GRADE
T/SLAB
EL. 0'–0"
5" PROJ.
TYP. 3/16
BASE PLATE "B" ON 1/4" SETTING PLATE ON 3/4" NON–SHRINK GROUT. SEE COLUMN & BASE PLATE SCHEDULE ON SHEET S1.0 FOR DETAILS
T/ FOOTING
SEE FOUNDATION PLAN
BASE PLATE "B" ON 1/4" SETTING PLATE ON 3/4" NON–SHRINK GROUT. SEE COLUMN & BASE PLATE SCHEDULE ON SHEET S1.0 FOR DETAILS
SEE FOUNDATION PLAN FOR DETAILS
3" CLR.
FOUNDATION TO BEAR SOLELY ON WEATHERED SANDSTONE (STRATUM II PER SECTION 3.1 OF GEOTECHNICAL REPORT). SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

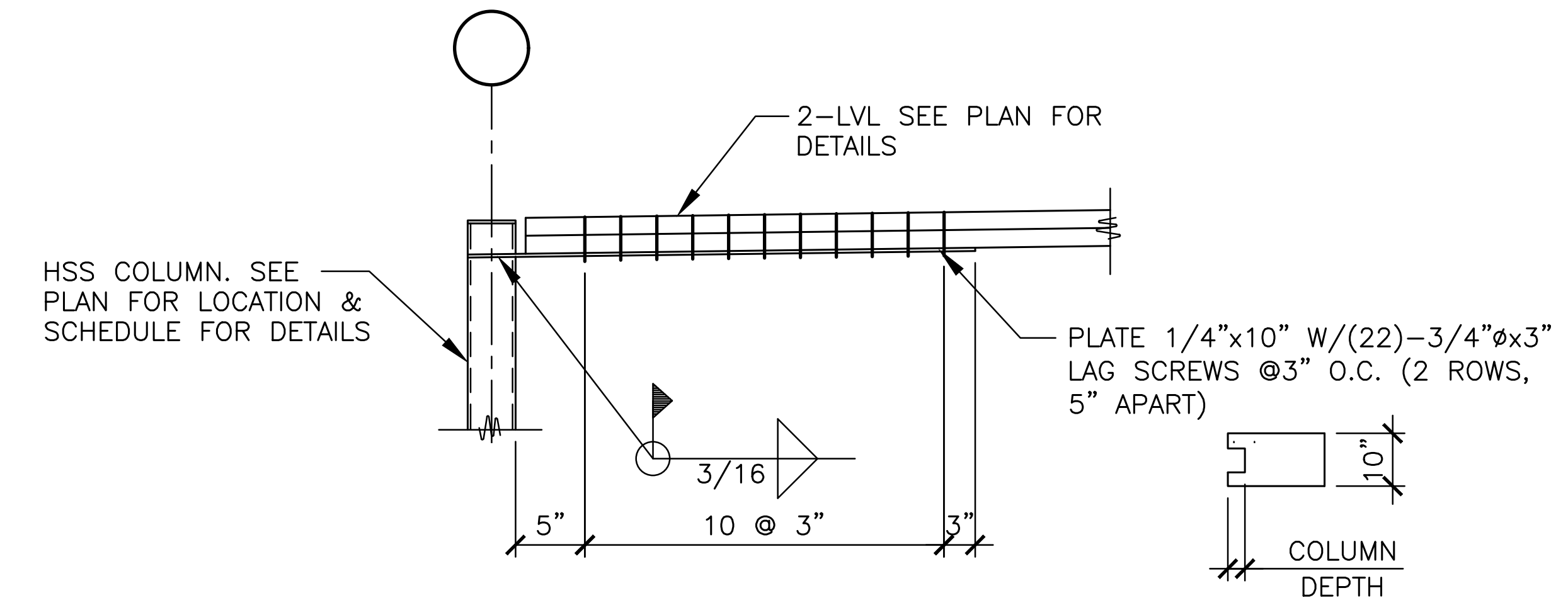
1 S3.1 BRACED FRAME DETAIL AT INTERIOR
3/4" = 1'–0"


1'–1"
8"
1
SEE PLAN
1/4"x5" (L–SHAPED) PLATE W/(4)–3/8"ø x3" LONG THREADED STUDS (COUNTERSUNK)
CONT. 2–2x6 PLATE @ PARAPET
6" TYP
1/4"x5"x0'–8" LONG PLATE W/(2)–3/8"ø x3" LONG THREADED STUDS (COUNTERSUNK)
T/PLATE
EL. +18'–5"
3/16 PLATE TO COL.
3/16 PLATE TO COL.
2x6 STUDS @16" O.C.
2x6 BOTT. PLATE
HSS8x4x1/4 (LLV) W/ 1/2"ø x3" LONG THREADED STUDS @16" O.C.
3" MAX.
LVL DRAG STRUT. SEE SHEET S1.2
3/4"
SEE 5/S3.1 (SIM.) FOR PLATE CONN. @ COLUMN
T/BEAM & LVL @ LOW POINT
EL. +13'–9"
3/4"ø x5" THREADED STUDS @16" O.C., STAGGERED @ DRAG STRUT CONNECTION
12
3/8
8" MAX.
3 1/2"
3/16 3/16 PLATE TO COLUMN
HSS TO HSS TYP 3/16
HSS4x4x5/16
HSS4x4x5/16
T/HSS BEAM
SEE PLAN
T/HSS BEAM
SEE PLAN
T/HSS BEAM
EL. +11'–8"
HSS BEAM SEE 6/S3.1 FOR CONNECTION DETAILS
B/PLATE
EL. +9'–5 1/2"
B/PLATE
EL. +9'–5 1/2"
HSS BEAM SEE 6/S3.1 FOR CONNECTION DETAILS
HSS10x4x1/4 (LLV) BETWEEN BRACED FRAME MEMBERS (4)–5/8"ø X7" A108 THREADED STUDS ON FACE @ EACH CANOPY OUTRIGGER ATTACHMENT (MAX.OUTRIGGER SPACING = 6'–0") (VERIFY CONNECTION WITH TRELLIS SUPPLIER)
550T125–43 LIGHT GAGE METAL TRACK FASTENED TO HSS DIAG. BRACES W/(2) 0.157"ø P.A.F. @16" O.C., TYP.
550S162–54 LIGHT GAGE METAL STUD @16" O.C., TYP.
TYP 3/16
550S162–54 LIGHT GAGE METAL END STUD FASTENED TO HSS COLUMN W/(2) 0.157"ø P.A.F. @16" O.C., TYP.
HSS COLUMN
HSS4x4x5/16
HSS COLUMN
CONCRETE FILL NOT SHOWN FOR CLARITY
COAT COLUMN BASE PLATE & A.R. W/ ASPHALTIC PAINT BELOW GRADE
T/SLAB
EL. 0'–0"
TYP. 3/16
BASE PLATE "B" ON 1/4" SETTING PLATE ON 3/4" NON–SHRINK GROUT. SEE COLUMN & BASE PLATE SCHEDULE ON SHEET S1.0 FOR DETAILS
T/ FOOTING
SEE FOUNDATION PLAN
BASE PLATE "B" ON 1/4" SETTING PLATE ON 3/4" NON–SHRINK GROUT. SEE COLUMN & BASE PLATE SCHEDULE ON SHEET S1.0 FOR DETAILS
SEE FOUNDATION PLAN FOR DETAILS
3" CLR.
FOUNDATION TO BEAR SOLELY ON WEATHERED SANDSTONE (STRATUM II PER SECTION 3.1 OF GEOTECHNICAL REPORT). SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

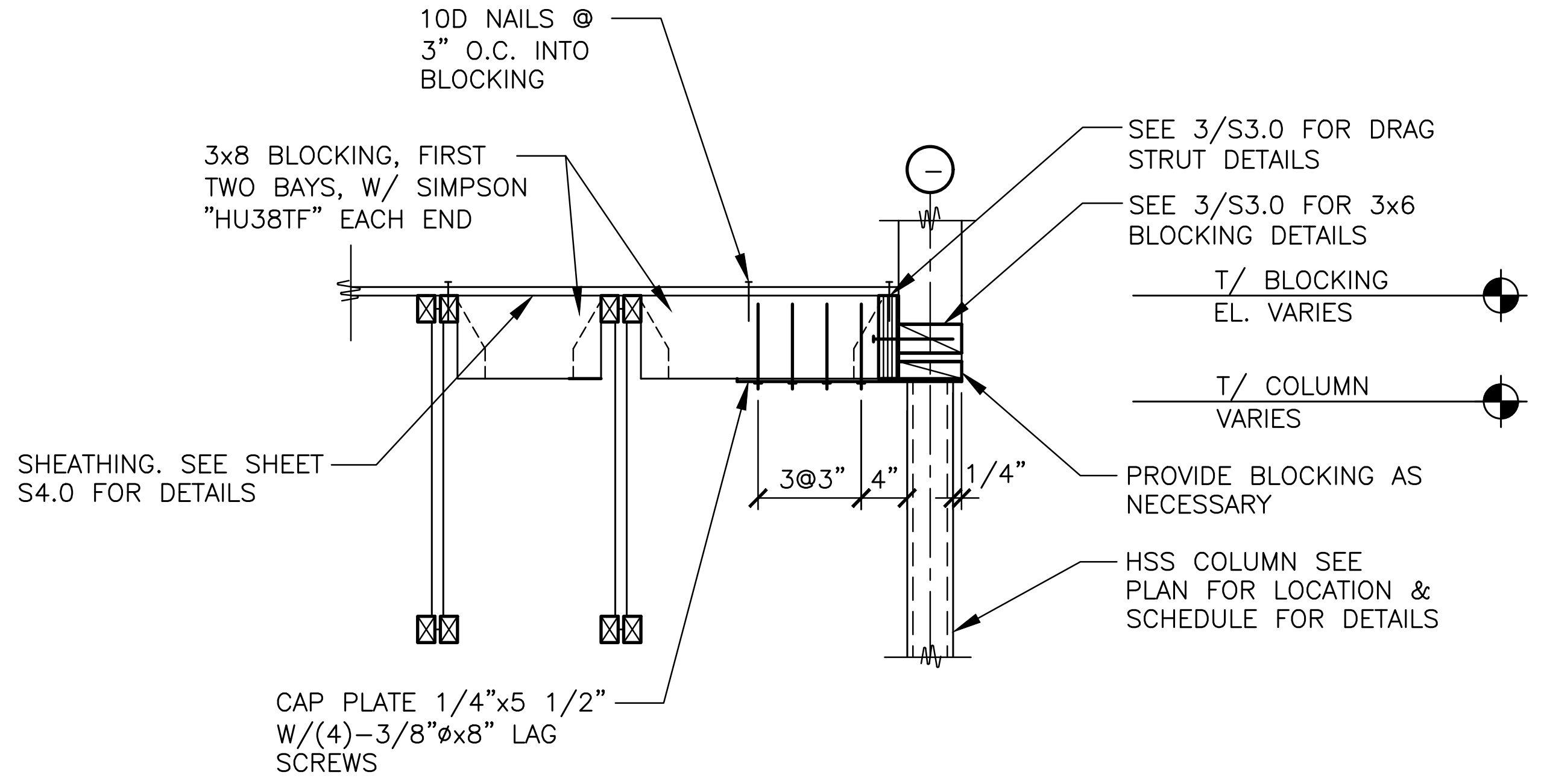
2 S3.1 BRACED FRAME DETAIL AT EXTERIOR
3/4" = 1'–0"


C.L. COLUMN & PLATE
HSS COLUMN
4" 4"
5/16
1'–0"
4" 4"
2" TYP.
1'–0"
3/4" BASE PLATE W/ 3/4"ø x1'–1" (MIN. 0'–9" EMBED.) +3" HOOK F1554, G36 A.R. AS SHOWN
BASE PLATE A
C.L. COLUMN & PLATE
HSS COLUMN
4" 4"
5/16
1'–0"
4" 4"
2" TYP.
1'–0"
1 1/4" BASE PLATE W/ 1 1/4"ø x2'–5" (MIN. 2'–0" EMBED.) HEADED ANCHORS F1554, G36 A.R. AS SHOWN
BASE PLATE B

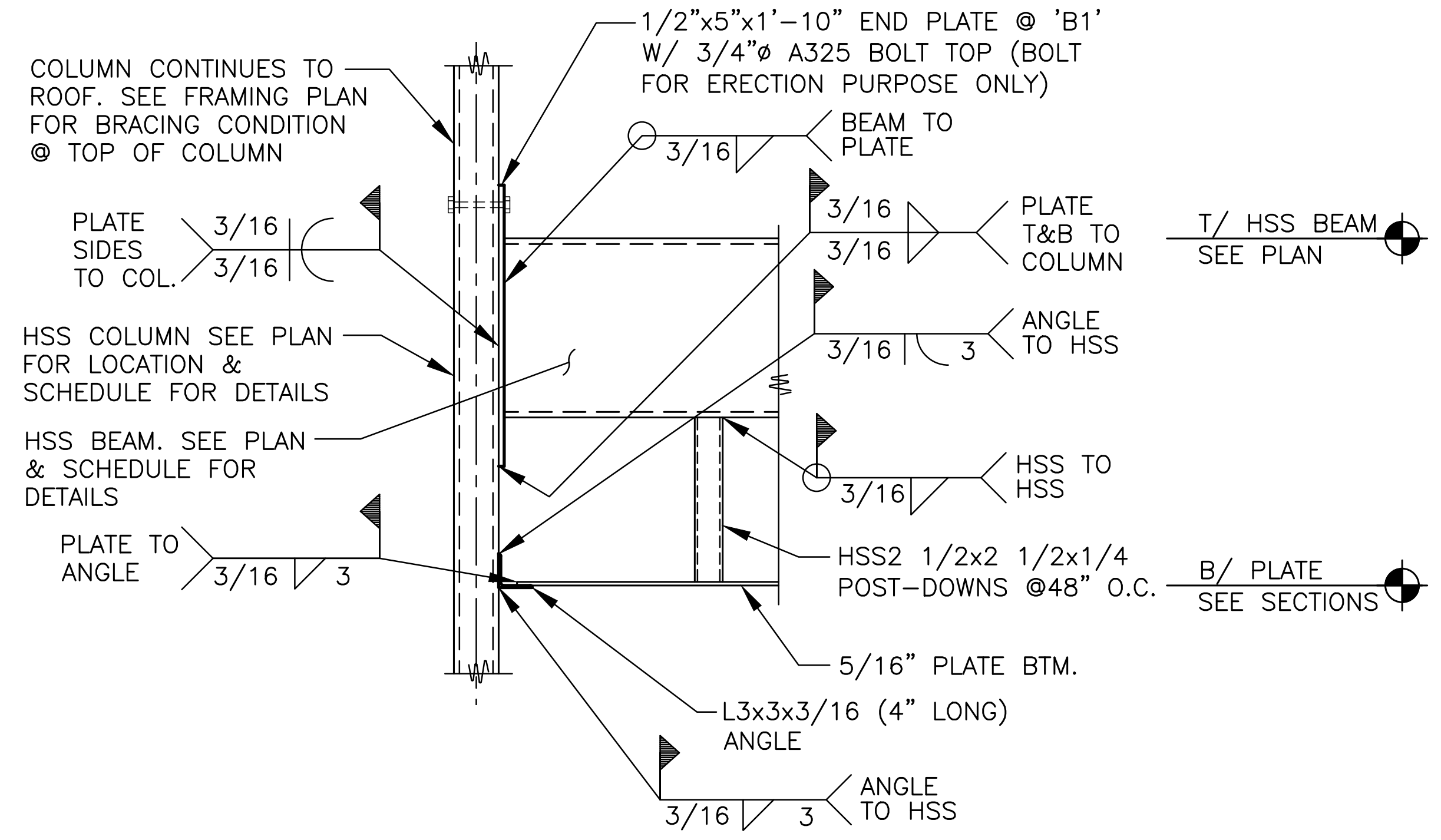
3 S3.1 BASE PLATE DETAILS
N.T.S.


2–LVL SEE PLAN FOR DETAILS
HSS COLUMN. SEE PLAN FOR LOCATION & SCHEDULE FOR DETAILS
PLATE 1/4"x10" W/(22)–3/4"ø x3" LAG SCREWS @3" O.C. (2 ROWS, 5" APART)
3/16
10"
5"
10 @ 3"
3"
COLUMN DEPTH

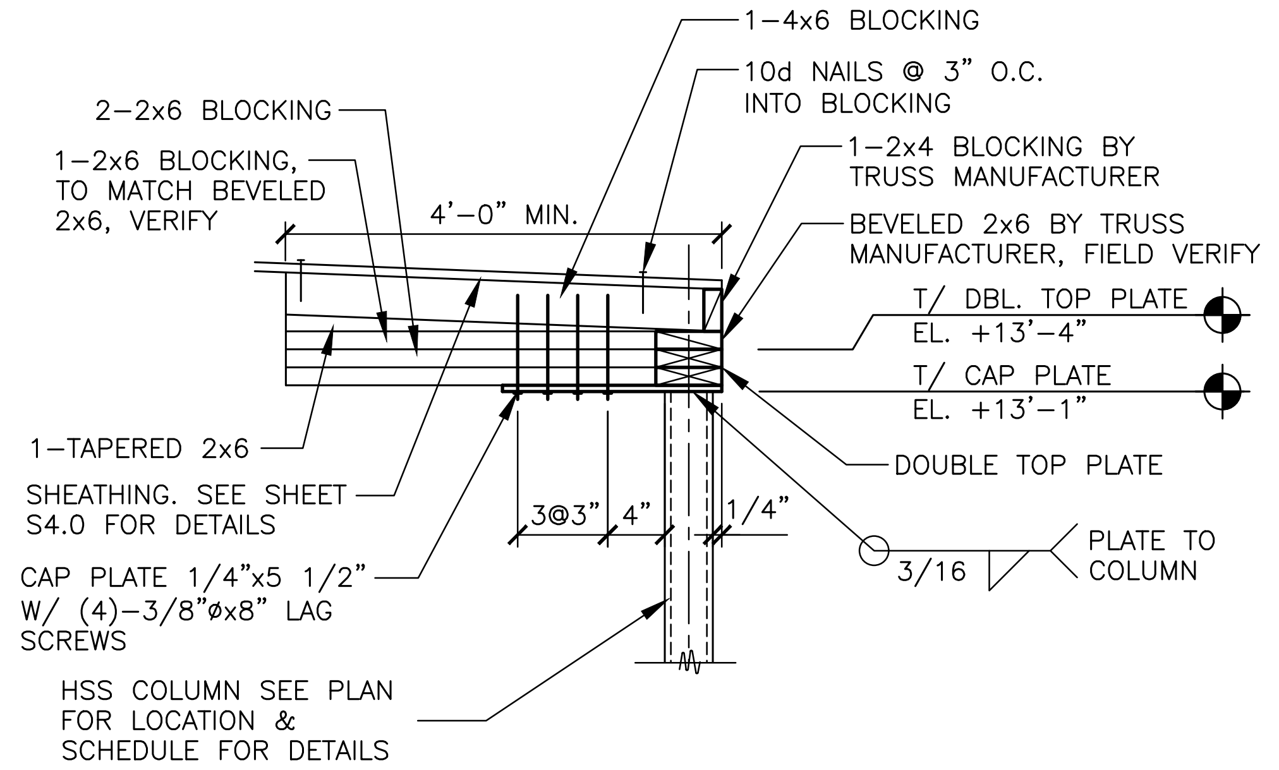
4 S3.1 DRAG STRUT CONNECTION DETAIL
3/4" = 1'–0"


10D NAILS @ 3" O.C. INTO BLOCKING
3x8 BLOCKING, FIRST TWO BAYS, W/ SIMPSON "HU38TF" EACH END
SEE 3/S3.0 FOR DRAG STRUT DETAILS
SEE 3/S3.0 FOR 3x6 BLOCKING DETAILS
T/ BLOCKING
EL. VARIES
T/ COLUMN
VARIES
SHEATHING. SEE SHEET S4.0 FOR DETAILS
3@3"
4"
1/4"
PROVIDE BLOCKING AS NECESSARY
HSS COLUMN SEE PLAN FOR LOCATION & SCHEDULE FOR DETAILS
CAP PLATE 1/4"x5 1/2" W/(4)–3/8"ø x8" LAG SCREWS

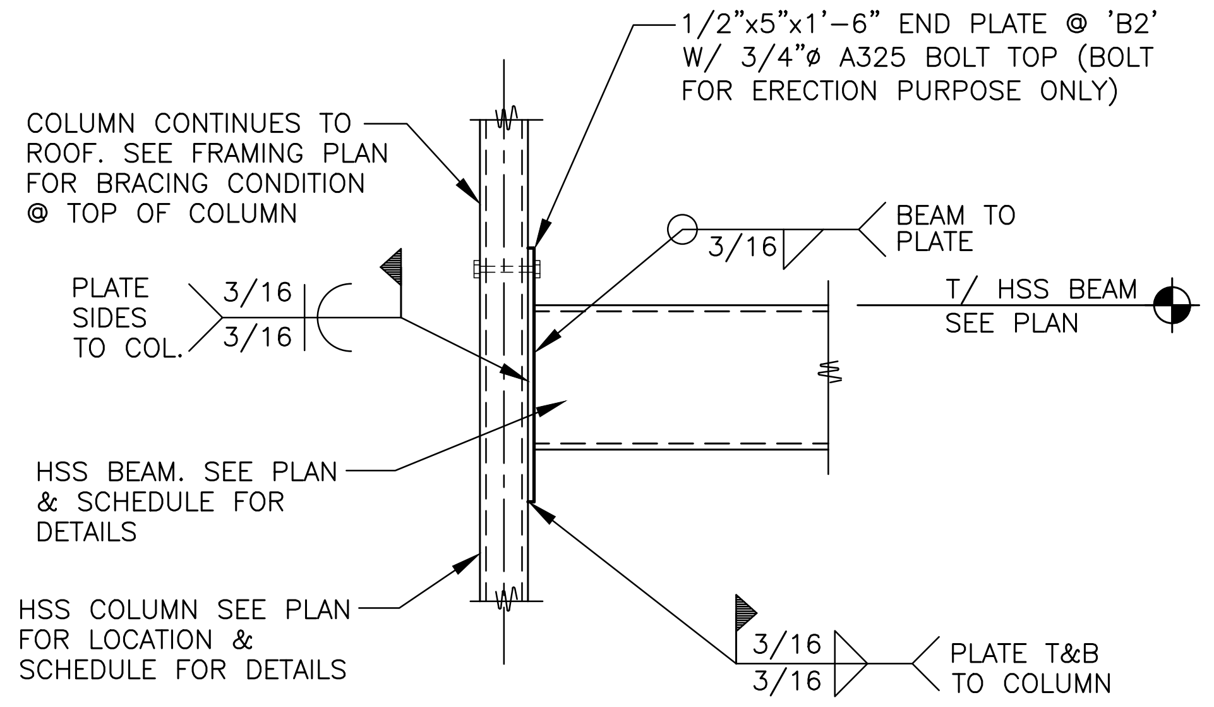
5 S3.1 COLUMN BRACING DETAIL
3/4" = 1'–0"


COLUMN CONTINUES TO ROOF. SEE FRAMING PLAN FOR BRACING CONDITION @ TOP OF COLUMN
1/2"x5"x1'–10" END PLATE @ 'B1' W/ 3/4"ø A325 BOLT TOP (BOLT FOR ERECTION PURPOSE ONLY)
3/16
BEAM TO PLATE
PLATE SIDES TO COL. 3/16 3/16
3/16 3/16 PLATE T&B TO COLUMN
T/ HSS BEAM
SEE PLAN
HSS COLUMN SEE PLAN FOR LOCATION & SCHEDULE FOR DETAILS
3/16 3 ANGLE TO HSS
HSS BEAM. SEE PLAN & SCHEDULE FOR DETAILS
3/16 HSS TO HSS
PLATE TO ANGLE 3/16 3
HSS2 1/2x2 1/2x1/4 POST–DOWNS @48" O.C.
B/ PLATE
SEE SECTIONS
5/16" PLATE BTM.
L3x3x3/16 (4" LONG) ANGLE
3/16 3 ANGLE TO HSS

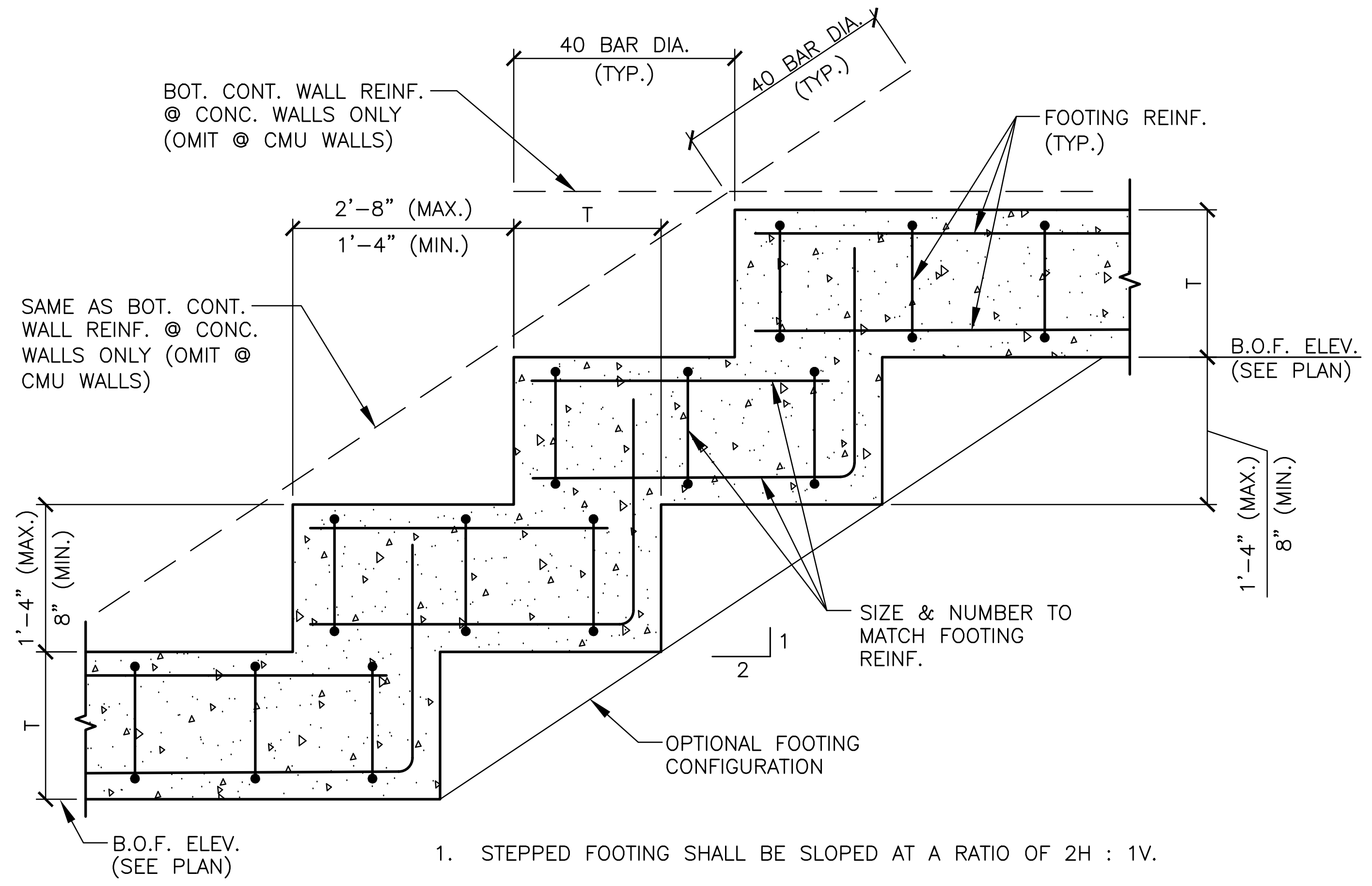
6 S3.1 HSS BEAM CONNECTION DETAIL
3/4" = 1'–0"


1–4x6 BLOCKING
2–2x6 BLOCKING
10d NAILS @ 3" O.C. INTO BLOCKING
1–2x6 BLOCKING, TO MATCH BEVELED 2x6, VERIFY
1–2x4 BLOCKING BY TRUSS MANUFACTURER
4'–0" MIN.
BEVELED 2x6 BY TRUSS MANUFACTURER, FIELD VERIFY
T/ DBL. TOP PLATE
EL. +13'–4"
T/ CAP PLATE
EL. +13'–1"
1–TAPERED 2x6
DOUBLE TOP PLATE
SHEATHING. SEE SHEET S4.0 FOR DETAILS
3@3"
4"
1/4"
3/16 PLATE TO COLUMN
CAP PLATE 1/4"x5 1/2" W/ (4)–3/8"ø x8" LAG SCREWS
HSS COLUMN SEE PLAN FOR LOCATION & SCHEDULE FOR DETAILS

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


1/2"x5"x1'–6" END PLATE @ 'B2' W/ 3/4"ø A325 BOLT TOP (BOLT FOR ERECTION PURPOSE ONLY)
COLUMN CONTINUES TO ROOF. SEE FRAMING PLAN FOR BRACING CONDITION @ TOP OF COLUMN
BEAM TO PLATE
3/16
T/ HSS BEAM
SEE PLAN
PLATE SIDES TO COL. 3/16 3/16
HSS BEAM. SEE PLAN & SCHEDULE FOR DETAILS
HSS COLUMN SEE PLAN FOR LOCATION & SCHEDULE FOR DETAILS
3/16 3/16 PLATE T&B TO COLUMN

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


40 BAR DIA. (TYP.)
40 BAR DIA. (TYP.)
BOT. CONT. WALL REINF. @ CONC. WALLS ONLY (OMIT @ CMU WALLS)
FOOTING REINF. (TYP.)
2'–8" (MAX.)
1'–4" (MIN.)
T
T
SAME AS BOT. CONT. WALL REINF. @ CONC. WALLS ONLY (OMIT @ CMU WALLS)
B.O.F. ELEV. (SEE PLAN)
1'–4" (MAX.)
8" (MIN.)
1'–4" (MAX.)
8" (MIN.)
T
SIZE & NUMBER TO MATCH FOOTING REINF.
2
1
OPTIONAL FOOTING CONFIGURATION
B.O.F. ELEV. (SEE PLAN)

1. STEPPED FOOTING SHALL BE SLOPED AT A RATIO OF 2H : 1V.

9 S3.1 STEP FOOTING DETAIL
3/4" = 1'–0"

REV | DATE | DESCRIPTION | BY

DAVID BALMA
NUMBER
PE-2015003007
2/19/2026

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PREPARED FOR:
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McDonald's USA, LLC

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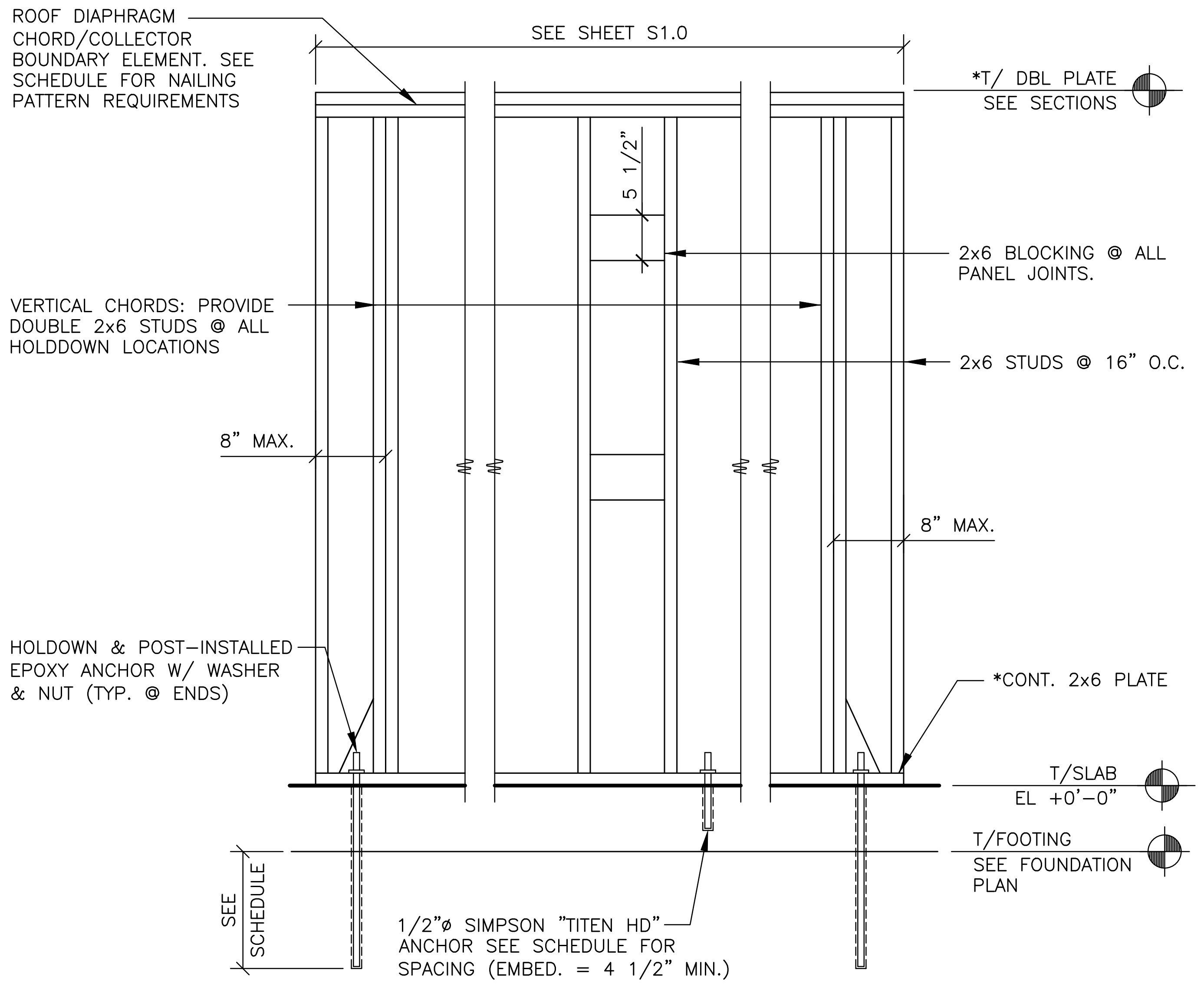
DRAWN BY
J.CARRAS
STD ISSUE DATE
2025 05
REVIEWED BY
Z.GROVE
DATE ISSUED
10–16–2025
C.S.G. PROJECT #
TKA.36772

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH
NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
S3.1
STEEL DETAILS


ROOF DIAPHRAGM CHORD/COLLECTOR BOUNDARY ELEMENT. SEE SCHEDULE FOR NAILING PATTERN REQUIREMENTS
SEE SHEET S1.0
*T/ DBL PLATE SEE SECTIONS
5 1/2"
2x6 BLOCKING @ ALL PANEL JOINTS.
VERTICAL CHORDS: PROVIDE DOUBLE 2x6 STUDS @ ALL HOLDDOWN LOCATIONS
2x6 STUDS @ 16" O.C.
8" MAX.
8" MAX.
HOLDOWN & POST-INSTALLED EPOXY ANCHOR W/ WASHER & NUT (TYP. @ ENDS)
*CONT. 2x6 PLATE
T/SLAB EL +0'-0"
T/FOOTING SEE FOUNDATION PLAN
SEE SCHEDULE
1/2"ø SIMPSON "TITEN HD" ANCHOR SEE SCHEDULE FOR SPACING (EMBED. = 4 1/2" MIN.)

## SHEAR WALL SCHEDULE

SHEAR WALL SCHEDULE

WIND: 115 MPH (EXPOSURE C) SEISMIC: Sds = 12.1%, Sd1 = 9.9%

| MARK | SHEATHING | SHEATHING NAIL SIZE | SHEATHING NAIL** SPACING @ PANEL EDGES | HOLDDOWN*** ANCHORS | ANCHOR BOLT SPACING | REMARKS |
|---|---|---|---|---|---|---|
| A | 1-15/32" | 8d | 6" | 1-HDU8-SDS2.5<br>7/8"ø EPOXY ANCH. | 32" | 12" MIN. EMBED. INTO FOOTING ON HOLDDOWN ANCHORS. |
| B | 1-15/32" | 8d | 6" | 1-HDU8-SDS2.5<br>7/8"ø EPOXY ANCH. | 32" | 12" MIN. EMBED. INTO FOOTING ON HOLDDOWN ANCHORS. |
| C | 1-15/32" | 8d | 6" | 1-HDU8-SDS2.5<br>7/8"ø EPOXY ANCH. | 32" | 12" MIN. EMBED. INTO FOOTING 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/ 20-"SDS1/4"øx2 1/2" SCREWS EACH

* IF SILL PLATE OR TOP PLATES ARE NOT CONTINUOUS, CONTACT THE ENGINEER OF RECORD FOR SOLUTION.

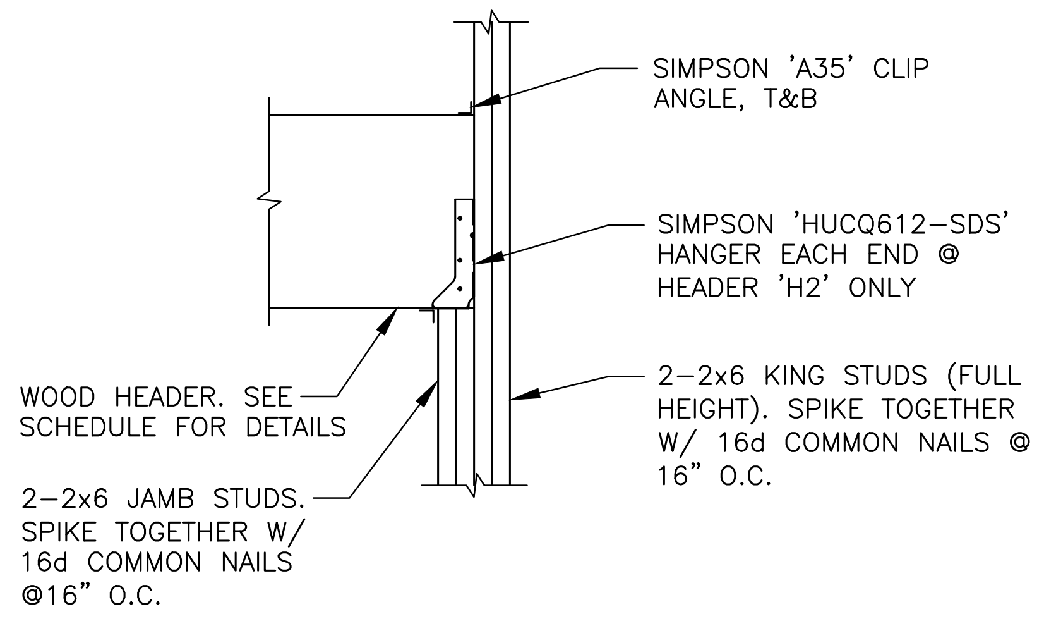
** NAIL SHEATHING TO ROOF DIAPHRAGM CHORD & TO EACH MEMBER/WALL VERTICAL CHORD W/ 10d COMMON NAILS @ 6" O.C., UNO.

*** AS MANUF. BY SIMPSON. USE SET-3G HIGH STRENGTH EPOXY FOR THE INSTALLATION OF END THREADED ROD ANCHORS.

1
S3.2

## SHEAR WALL SCHEDULE

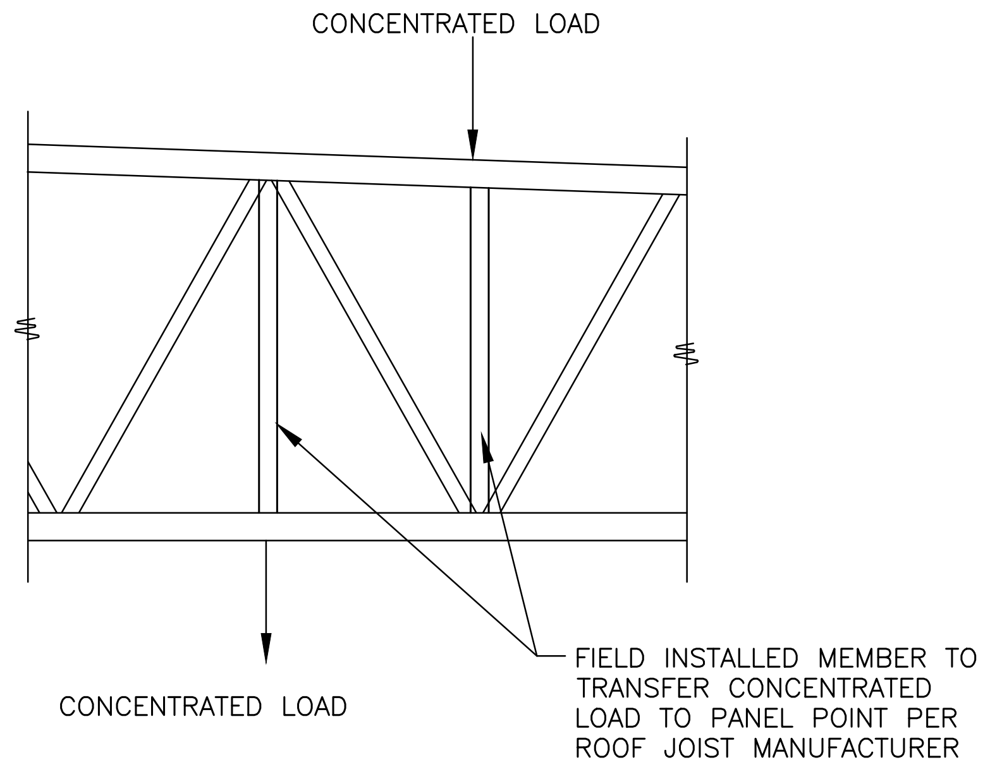
N.T.S.


SIMPSON 'A35' CLIP ANGLE, T&B
SIMPSON 'HUCQ612-SDS' HANGER EACH END @ HEADER 'H2' ONLY
2-2x6 KING STUDS (FULL HEIGHT). SPIKE TOGETHER W/ 16d COMMON NAILS @ 16" O.C.
WOOD HEADER. SEE SCHEDULE FOR DETAILS
2-2x6 JAMB STUDS. SPIKE TOGETHER W/ 16d COMMON NAILS @16" O.C.

2
S3.2

## HEADER SUPPORT DETAIL

N.T.S.


CONCENTRATED LOAD
CONCENTRATED LOAD
FIELD INSTALLED MEMBER TO TRANSFER CONCENTRATED LOAD TO PANEL POINT PER ROOF JOIST MANUFACTURER

3
S3.2

## JOIST DETAIL @ POINT LOADS

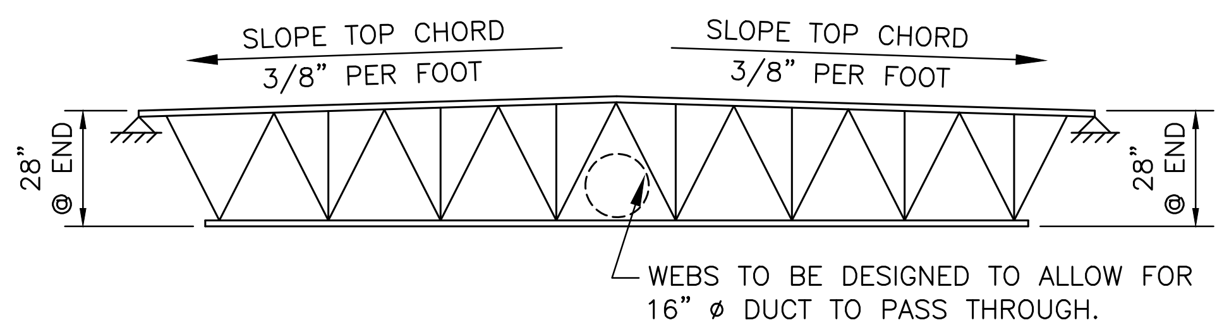
N.T.S.

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

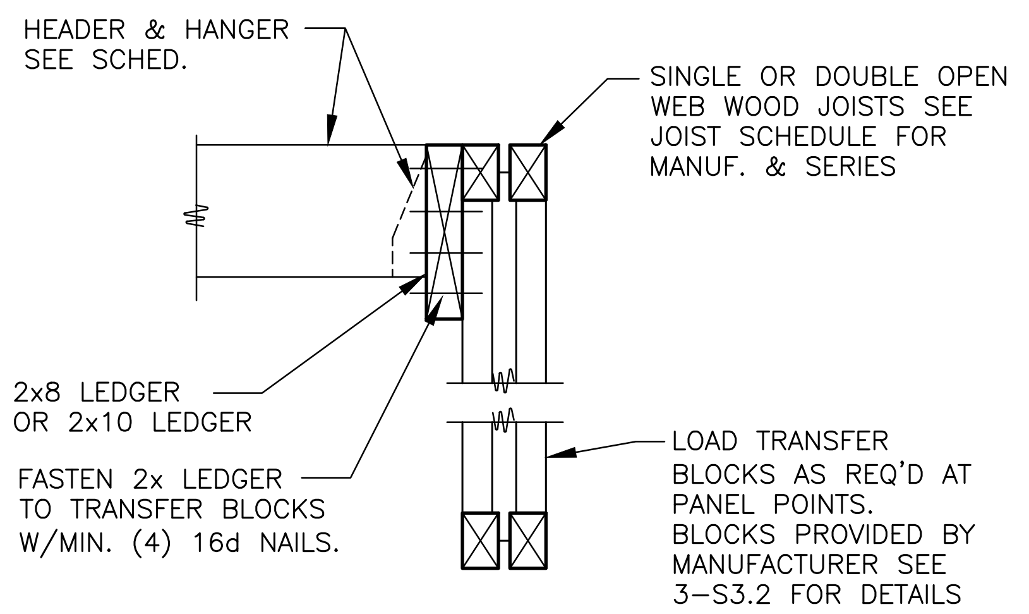
| HEADER | HANGER |
|---|---|
| 2x6 | LUS26 |
| 2-2x6 | LUS26-2 |
| 2x8 | LUS28 |
| 2-2x8 | LUS28-2 |
| 2x10 | LUS210 |
| 2-2x10 | LUS210-2 |

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.
115 MPH ULTIMATE – 8 PSF SERVICE (ASD: 0.6D + 0.6W)



JOIST J1 PROFILE

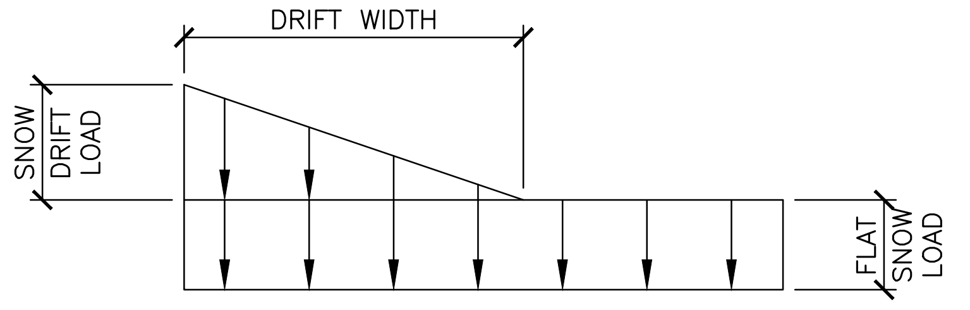

HEADER & HANGER SEE SCHED.
SINGLE OR DOUBLE OPEN WEB WOOD JOISTS SEE JOIST SCHEDULE FOR MANUF. & SERIES
2x8 LEDGER OR 2x10 LEDGER
FASTEN 2x LEDGER TO TRANSFER BLOCKS W/MIN. (4) 16d NAILS.
LOAD TRANSFER BLOCKS AS REQ'D AT PANEL POINTS. BLOCKS PROVIDED BY MANUFACTURER SEE 3-S3.2 FOR DETAILS

LOAD TRANSFER BLOCKS
CONCENTRATED LOADS

4
S3.2

## JOIST NOTES

N.T.S.



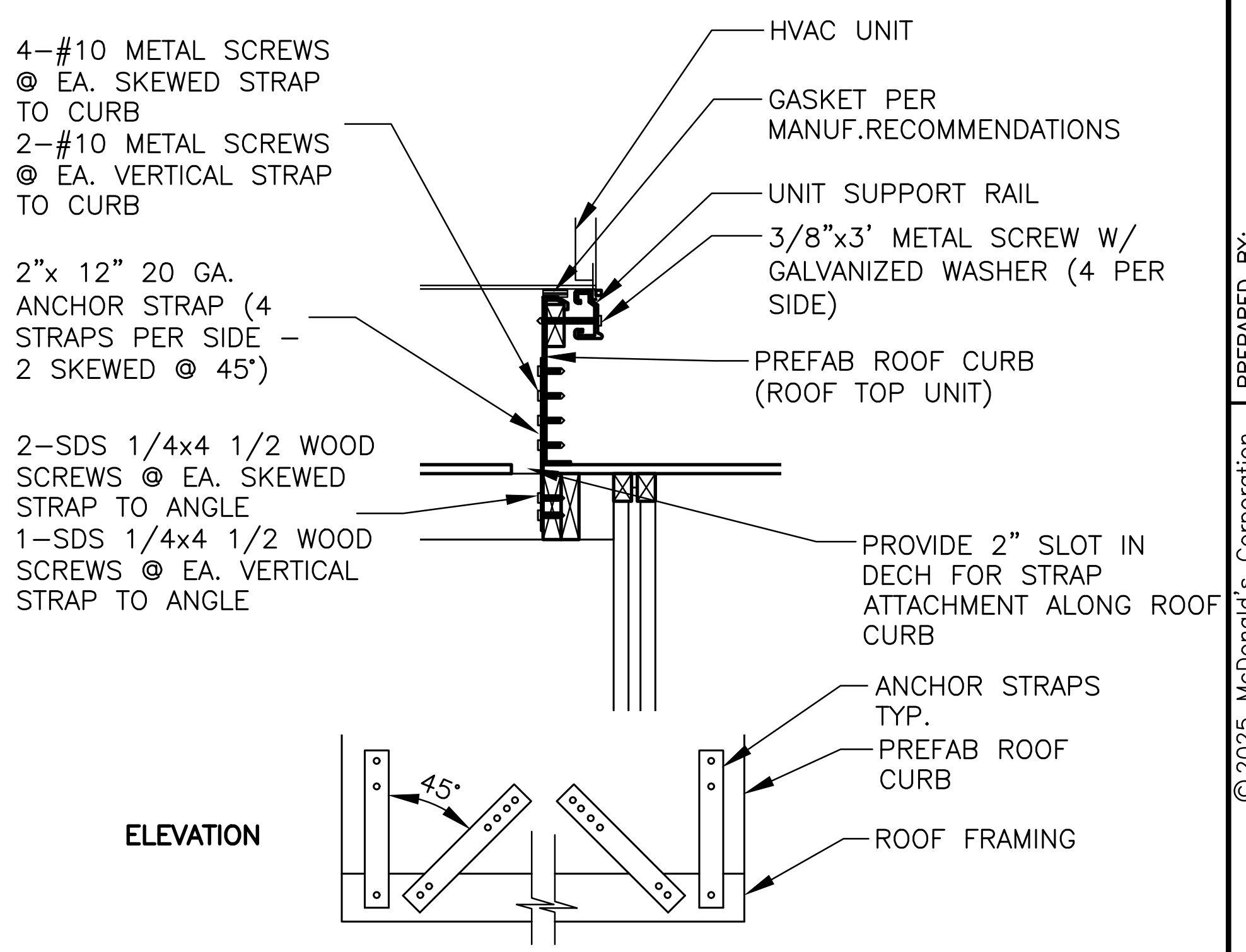
| DRIFT | SNOW DRIFT LOAD (PSF) | WIDTH (FT) |
|---|---|---|
| SHORT DIRECTION | 26.0 | 6'-2" |
| LONG DIRECTION | 39.0 | 9'-4" |

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

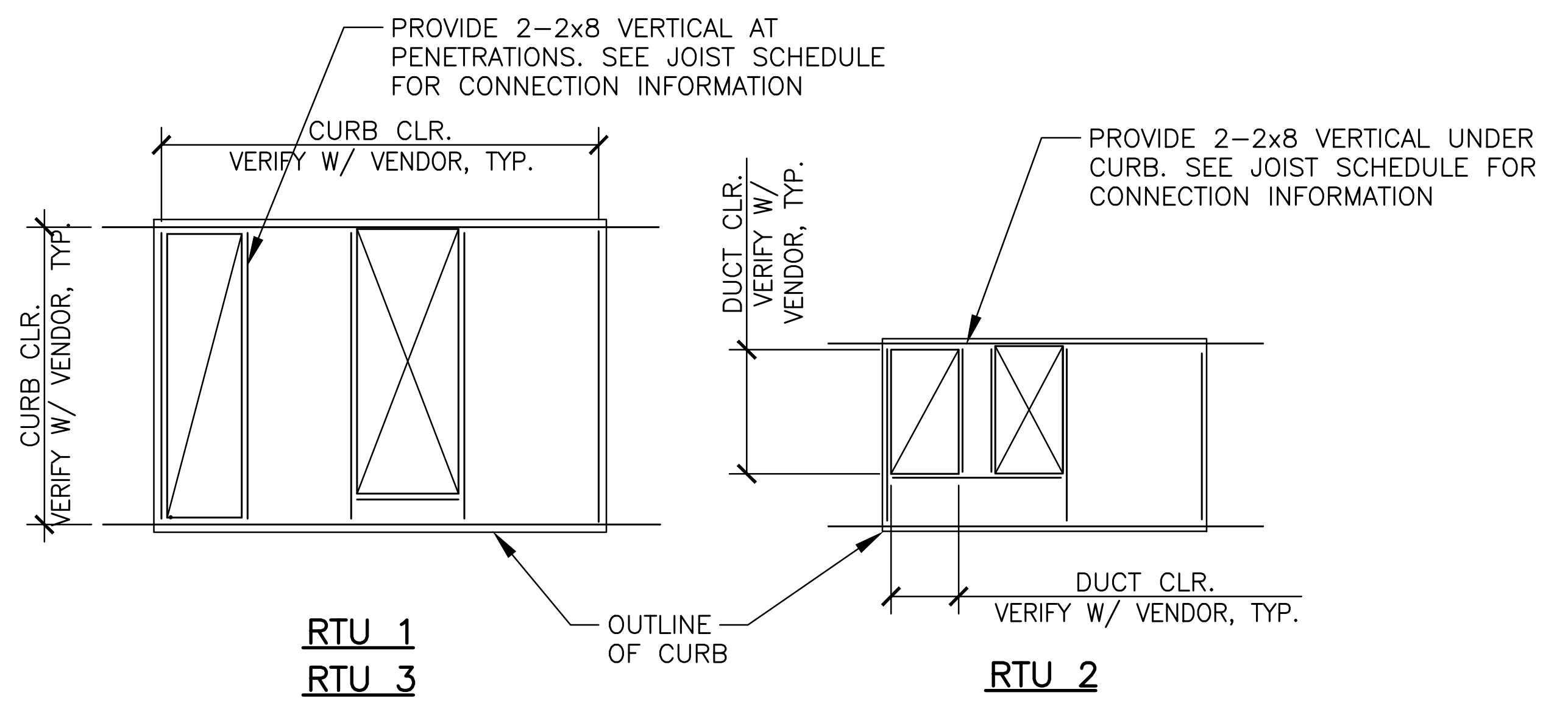

4-#10 METAL SCREWS @ EA. SKEWED STRAP TO CURB
2-#10 METAL SCREWS @ EA. VERTICAL STRAP TO CURB
2"x 12" 20 GA. ANCHOR STRAP (4 STRAPS PER SIDE – 2 SKEWED @ 45°)
2-SDS 1/4x4 1/2 WOOD SCREWS @ EA. SKEWED STRAP TO ANGLE
1-SDS 1/4x4 1/2 WOOD SCREWS @ EA. VERTICAL STRAP TO ANGLE
HVAC UNIT
GASKET PER MANUF.RECOMMENDATIONS
UNIT SUPPORT RAIL
3/8"x3' METAL SCREW W/ GALVANIZED WASHER (4 PER SIDE)
PREFAB ROOF CURB (ROOF TOP UNIT)
PROVIDE 2" SLOT IN DECH FOR STRAP ATTACHMENT ALONG ROOF CURB
ANCHOR STRAPS TYP.
PREFAB ROOF CURB
ROOF FRAMING
ELEVATION
45°

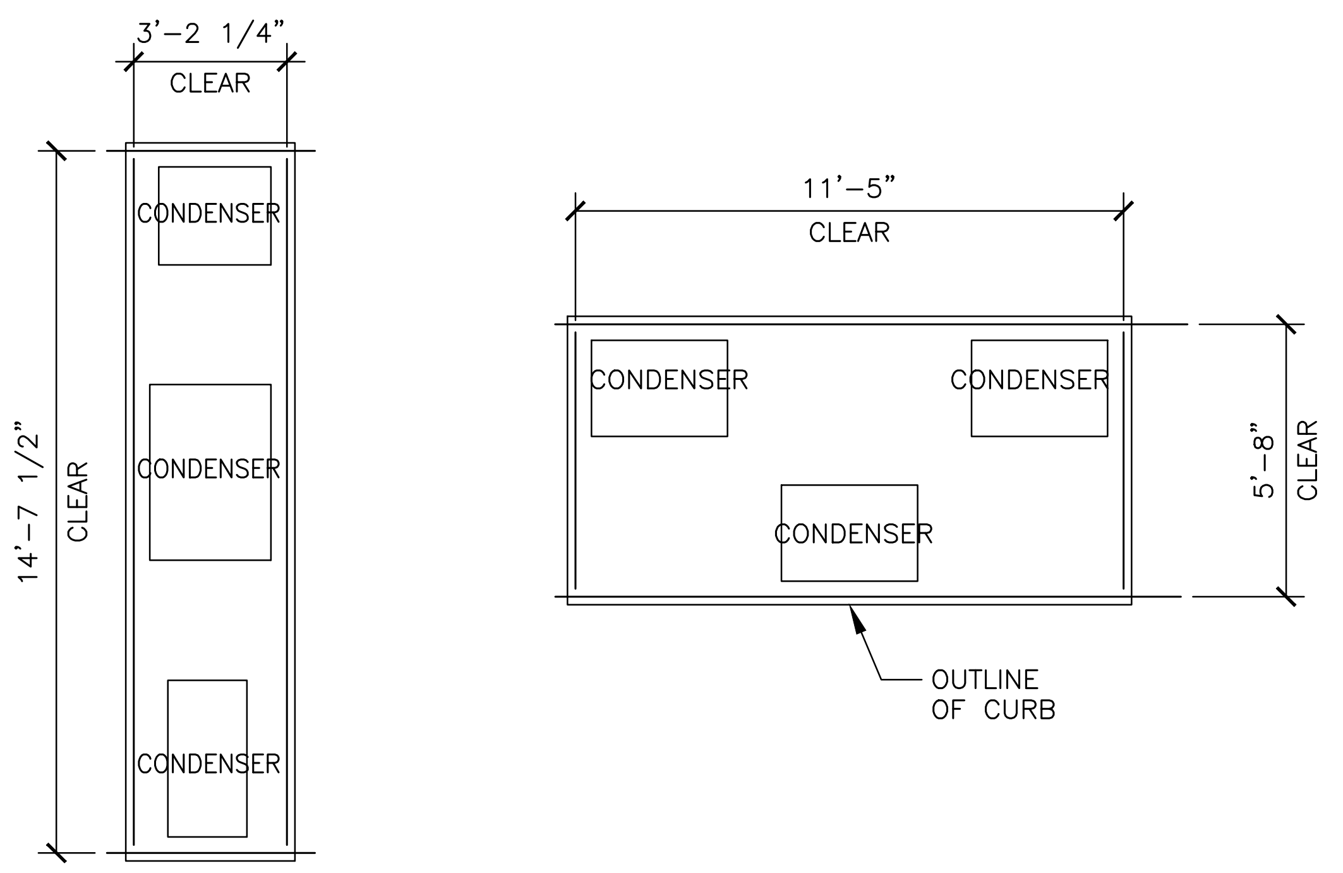
6
S3.2

## 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.


PROVIDE 2-2x8 VERTICAL AT PENETRATIONS. SEE JOIST SCHEDULE FOR CONNECTION INFORMATION
CURB CLR. VERIFY W/ VENDOR, TYP.
CURB CLR. VERIFY W/ VENDOR, TYP.
DUCT CLR. VERIFY W/ VENDOR, TYP.
PROVIDE 2-2x8 VERTICAL UNDER CURB. SEE JOIST SCHEDULE FOR CONNECTION INFORMATION
OUTLINE OF CURB
DUCT CLR. VERIFY W/ VENDOR, TYP.
RTU 1
RTU 3
RTU 2



7
S3.2

## ROOF TOP UNIT CLEARANCES

1/4" = 1'-0"

8
S3.2

## NOT USED

N.T.S.

9
S3.2

## NOT USED

N.T.S.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| – | – | – | – |

DAVID BALMA
NUMBER PE-2015003007
2/19/2026

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PREPARED FOR:
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**McDonald's USA, LLC**

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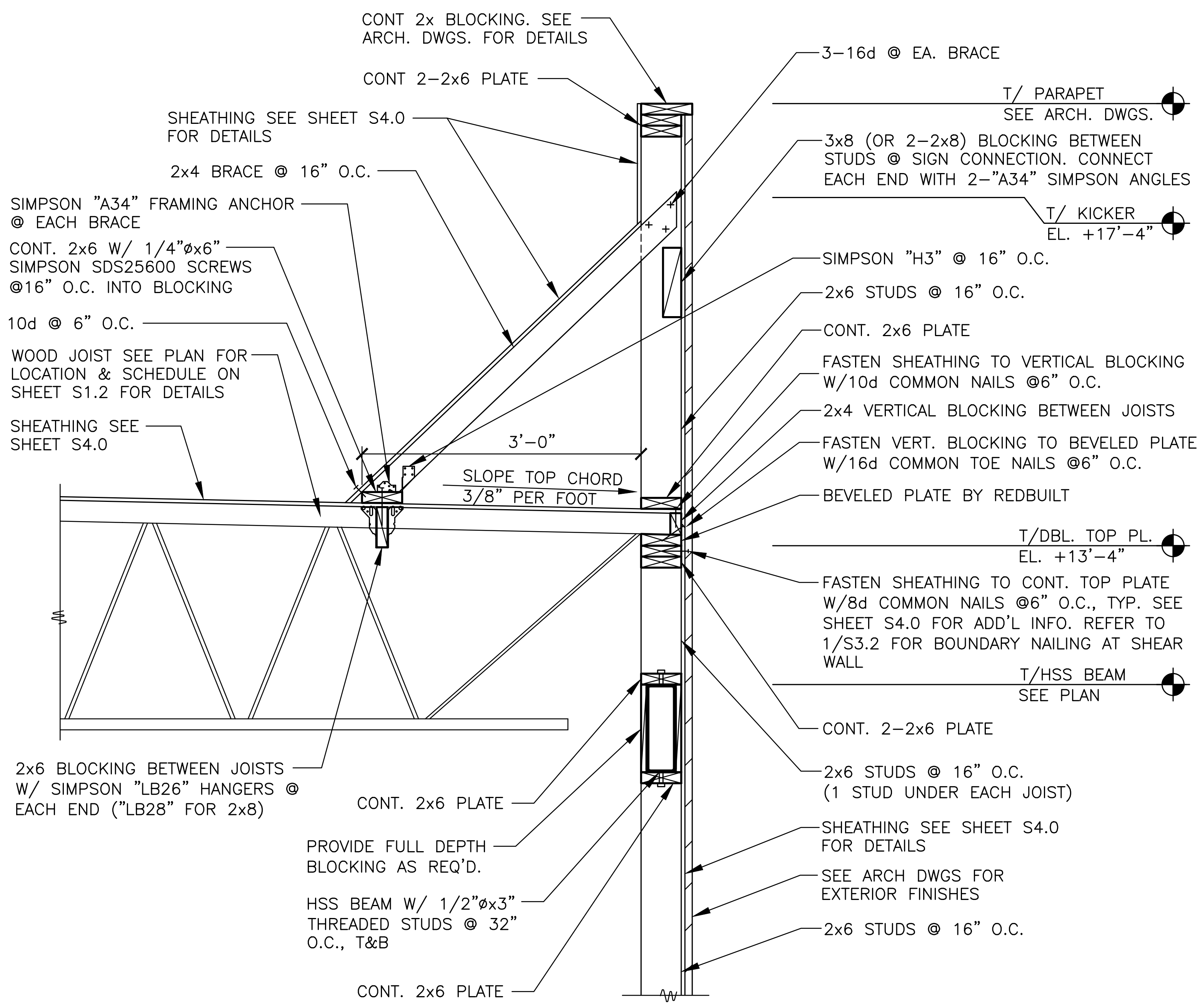
DRAWN BY
J.CARRAS
STD ISSUE DATE
2025 05
REVIEWED BY
Z.GROVE
DATE ISSUED
10-16-2025
C.S.G. PROJECT #
TKA.36772

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH
NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
S3.2
DETAILS

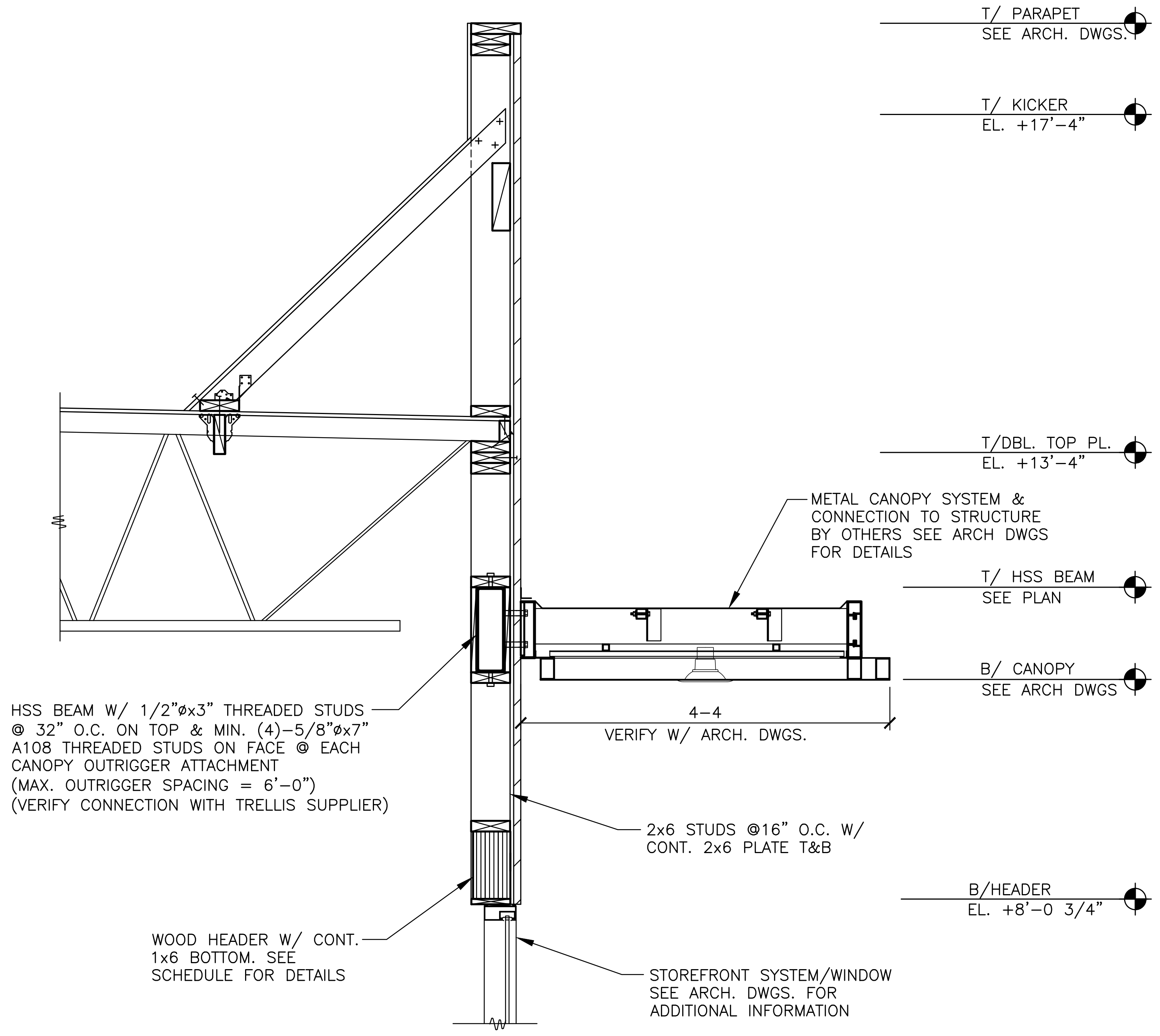

CONT 2x BLOCKING. SEE ARCH. DWGS. FOR DETAILS
CONT 2–2x6 PLATE
SHEATHING SEE SHEET S4.0 FOR DETAILS
2x4 BRACE @ 16" O.C.
SIMPSON "A34" FRAMING ANCHOR @ EACH BRACE
CONT. 2x6 W/ 1/4"ø x6" SIMPSON SDS25600 SCREWS @16" O.C. INTO BLOCKING
10d @ 6" O.C.
WOOD JOIST SEE PLAN FOR LOCATION & SCHEDULE ON SHEET S1.2 FOR DETAILS
SHEATHING SEE SHEET S4.0
3'–0"
SLOPE TOP CHORD 3/8" PER FOOT
2x6 BLOCKING BETWEEN JOISTS W/ SIMPSON "LB26" HANGERS @ EACH END ("LB28" FOR 2x8)
CONT. 2x6 PLATE
PROVIDE FULL DEPTH BLOCKING AS REQ'D.
HSS BEAM W/ 1/2"ø x3" THREADED STUDS @ 32" O.C., T&B
CONT. 2x6 PLATE
3–16d @ EA. BRACE
T/ PARAPET
SEE ARCH. DWGS.
3x8 (OR 2–2x8) BLOCKING BETWEEN STUDS @ SIGN CONNECTION. CONNECT EACH END WITH 2–"A34" SIMPSON ANGLES
T/ KICKER
EL. +17'–4"
SIMPSON "H3" @ 16" O.C.
2x6 STUDS @ 16" O.C.
CONT. 2x6 PLATE
FASTEN SHEATHING TO VERTICAL BLOCKING W/10d COMMON NAILS @6" O.C.
2x4 VERTICAL BLOCKING BETWEEN JOISTS
FASTEN VERT. BLOCKING TO BEVELED PLATE W/16d COMMON TOE NAILS @6" O.C.
BEVELED PLATE BY REDBUILT
T/DBL. TOP PL.
EL. +13'–4"
FASTEN SHEATHING TO CONT. TOP PLATE W/8d COMMON NAILS @6" O.C., TYP. SEE SHEET S4.0 FOR ADD'L INFO. REFER TO 1/S3.2 FOR BOUNDARY NAILING AT SHEAR WALL
T/HSS BEAM
SEE PLAN
CONT. 2–2x6 PLATE
2x6 STUDS @ 16" O.C. (1 STUD UNDER EACH JOIST)
SHEATHING SEE SHEET S4.0 FOR DETAILS
SEE ARCH DWGS FOR EXTERIOR FINISHES
2x6 STUDS @ 16" O.C.

1
S3.5

## SECTION

3/4" = 1'–0"

SEE SECTION 1/S3.5 FOR ADDITIONAL INFORMATION

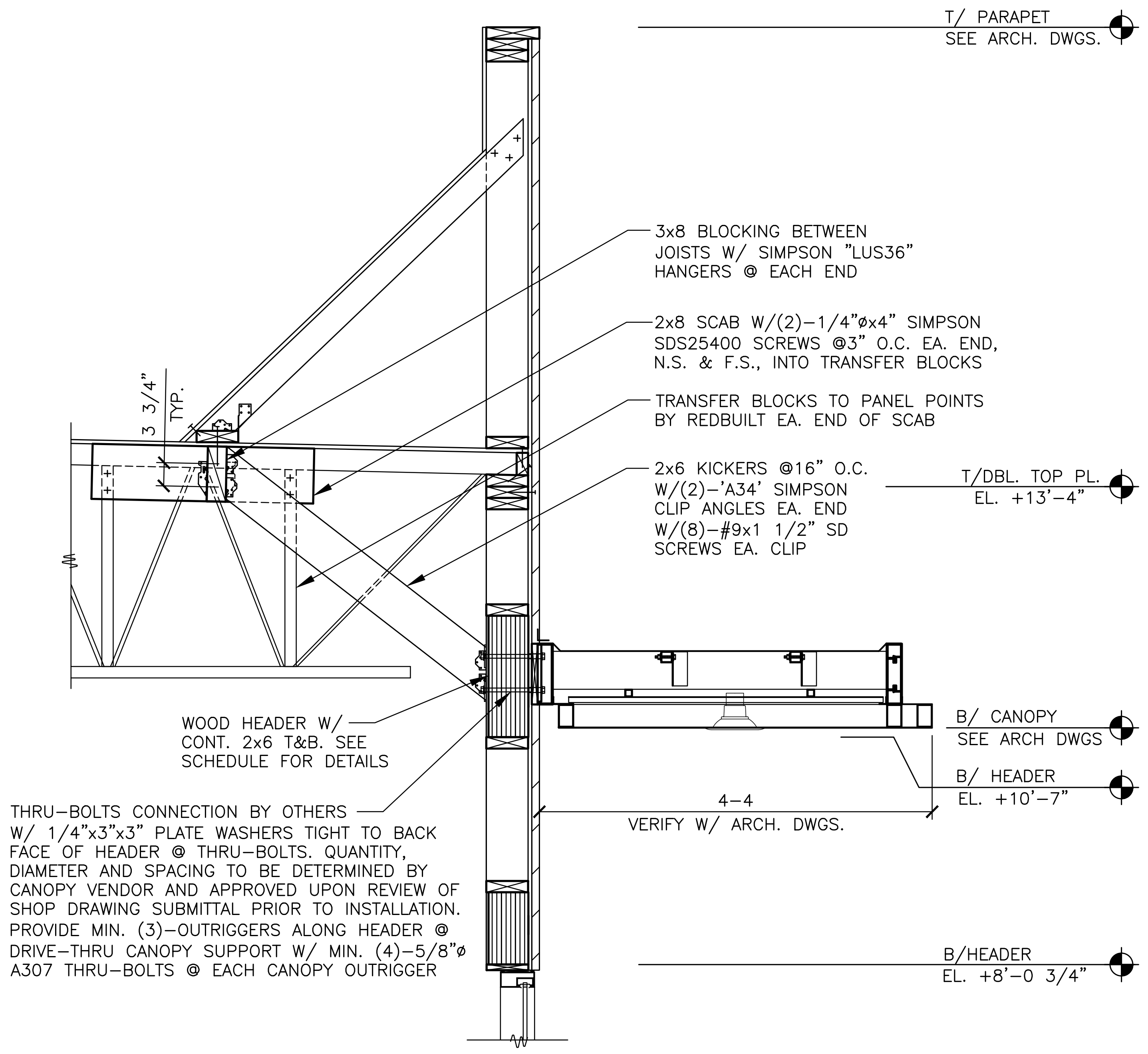

T/ PARAPET
SEE ARCH. DWGS.
T/ KICKER
EL. +17'–4"
T/DBL. TOP PL.
EL. +13'–4"
METAL CANOPY SYSTEM & CONNECTION TO STRUCTURE BY OTHERS SEE ARCH DWGS FOR DETAILS
T/ HSS BEAM
SEE PLAN
B/ CANOPY
SEE ARCH DWGS
4–4
VERIFY W/ ARCH. DWGS.
HSS BEAM W/ 1/2"ø x3" THREADED STUDS @ 32" O.C. ON TOP & MIN. (4)–5/8"ø x7" A108 THREADED STUDS ON FACE @ EACH CANOPY OUTRIGGER ATTACHMENT (MAX. OUTRIGGER SPACING = 6'–0") (VERIFY CONNECTION WITH TRELLIS SUPPLIER)
2x6 STUDS @16" O.C. W/ CONT. 2x6 PLATE T&B
B/HEADER
EL. +8'–0 3/4"
WOOD HEADER W/ CONT. 1x6 BOTTOM. SEE SCHEDULE FOR DETAILS
STOREFRONT SYSTEM/WINDOW SEE ARCH. DWGS. FOR ADDITIONAL INFORMATION

2
S3.5

## SECTION

3/4" = 1'–0"

SEE SECTION 2/S3.5 FOR ADDITIONAL INFORMATION


T/ PARAPET
SEE ARCH. DWGS.
3x8 BLOCKING BETWEEN JOISTS W/ SIMPSON "LUS36" HANGERS @ EACH END
2x8 SCAB W/(2)–1/4"ø x4" SIMPSON SDS25400 SCREWS @3" O.C. EA. END, N.S. & F.S., INTO TRANSFER BLOCKS
TRANSFER BLOCKS TO PANEL POINTS BY REDBUILT EA. END OF SCAB
3 3/4" TYP.
2x6 KICKERS @16" O.C. W/(2)–'A34' SIMPSON CLIP ANGLES EA. END W/(8)–#9x1 1/2" SD SCREWS EA. CLIP
T/DBL. TOP PL.
EL. +13'–4"
WOOD HEADER W/ CONT. 2x6 T&B. SEE SCHEDULE FOR DETAILS
B/ CANOPY
SEE ARCH DWGS
B/ HEADER
EL. +10'–7"
4–4
VERIFY W/ ARCH. DWGS.
THRU–BOLTS CONNECTION BY OTHERS W/ 1/4"x3"x3" PLATE WASHERS TIGHT TO BACK FACE OF HEADER @ THRU–BOLTS. QUANTITY, DIAMETER AND SPACING TO BE DETERMINED BY CANOPY VENDOR AND APPROVED UPON REVIEW OF SHOP DRAWING SUBMITTAL PRIOR TO INSTALLATION. PROVIDE MIN. (3)–OUTRIGGERS ALONG HEADER @ DRIVE–THRU CANOPY SUPPORT W/ MIN. (4)–5/8"ø A307 THRU–BOLTS @ EACH CANOPY OUTRIGGER
B/HEADER
EL. +8'–0 3/4"

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 |
|---|---|---|---|
| – | – | – | – |

DAVID BALMA
NUMBER
PE-2015003007
2/19/2026

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McDonald's USA, LLC

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DRAWN BY
J.CARRAS
STD ISSUE DATE
2025 05
REVIEWED BY
Z.GROVE
DATE ISSUED
10–16–2025
C.S.G. PROJECT #
TKA.36772

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
S3.5
FRAMING SECTIONS

# STRUCTURAL GENERAL NOTES:

## DESIGN AND LOADING

1. THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:
    - A. BUILDING CODE: 2006 INTERNATIONAL BUILDING CODE
    - B. FLOOR:
        - LIVE LOAD: 100 PSF
    - C. ROOF:
        - LIVE LOAD: 20 PSF
        - DEAD LOAD: 20 PSF
    - D. SNOW:
        - GROUND LOAD: 20 PSF
        - FLAT ROOF LOAD: 20 PSF
        - SNOW EXPOSURE FACTOR, CE: 1.0
        - IMPORTANCE FACTOR, I: 1.0
        - THERMAL COEFFICIENT, CT: 1.0
    - E. WIND:
        - ULTIMATE WIND SPEED: 115 MPH (3–SECOND GUST)
        - RISK CATEGORY: II
        - WIND EXPOSURE: C
        - PRESSURES PER ASCE 7
    - F. SEISMIC:
        - RISK CATEGORY: II
        - IMPORTANCE FACTOR: 1.00
        - SITE CLASS: C
        - SS = 0.151, S1= 0.087
        - SDS = 0.121, SD1 = 0.099
        - DESIGN CATEGORY: B
        - PLYWOOD SHEAR WALLS (R = 6.5)
        - STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R = 3.0)
        - CS1: 0.019 (LONGITUDINAL DIRECTION) CS2: 0.040 (TRANSVERSE DIRECTION)
        - DESIGN BASE SHEAR = SEE CALCULATIONS
        - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
    - G. FLOOD LOAD: N/A
    - H. SPECIAL LOADS: N/A

## FOUNDATION NOTES

1. THE FOUNDATION DESIGN OF THIS BUILDING WAS BASED ON THE FOLLOWING CRITERIA:
    - A. MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 5000 PSF.
    - B. RECOMMENDED BY ECS MIDWEST, LLC IN THEIR REPORT #16:15801 DATED 8/6/2025
    - C. ANY FILL REQUIRED BELOW SLABS ON GRADE OR FOOTINGS SHALL BE COMPACTED AS REQUIRED BY THE SOILS REPORT NOTED IN ITEM #2.
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.

## 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 1704 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 1704. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2006 INTERNATIONAL BUILDING CODE SECTIONS/LOCATIONS:
    - A. SOILS – SECTION 1704.7 PER TABLE 1704.7
    - B. CONCRETE – SECTION 1704.4 PER TABLE 1704.4
    - C. STEEL – SECTION 1704.3 PER TABLE 1704.3
    - D. WOOD – SECTION 1704.6

## 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.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| – | – | – | – |

DAVID BALMA
NUMBER
PE-2015003007
2/19/2026

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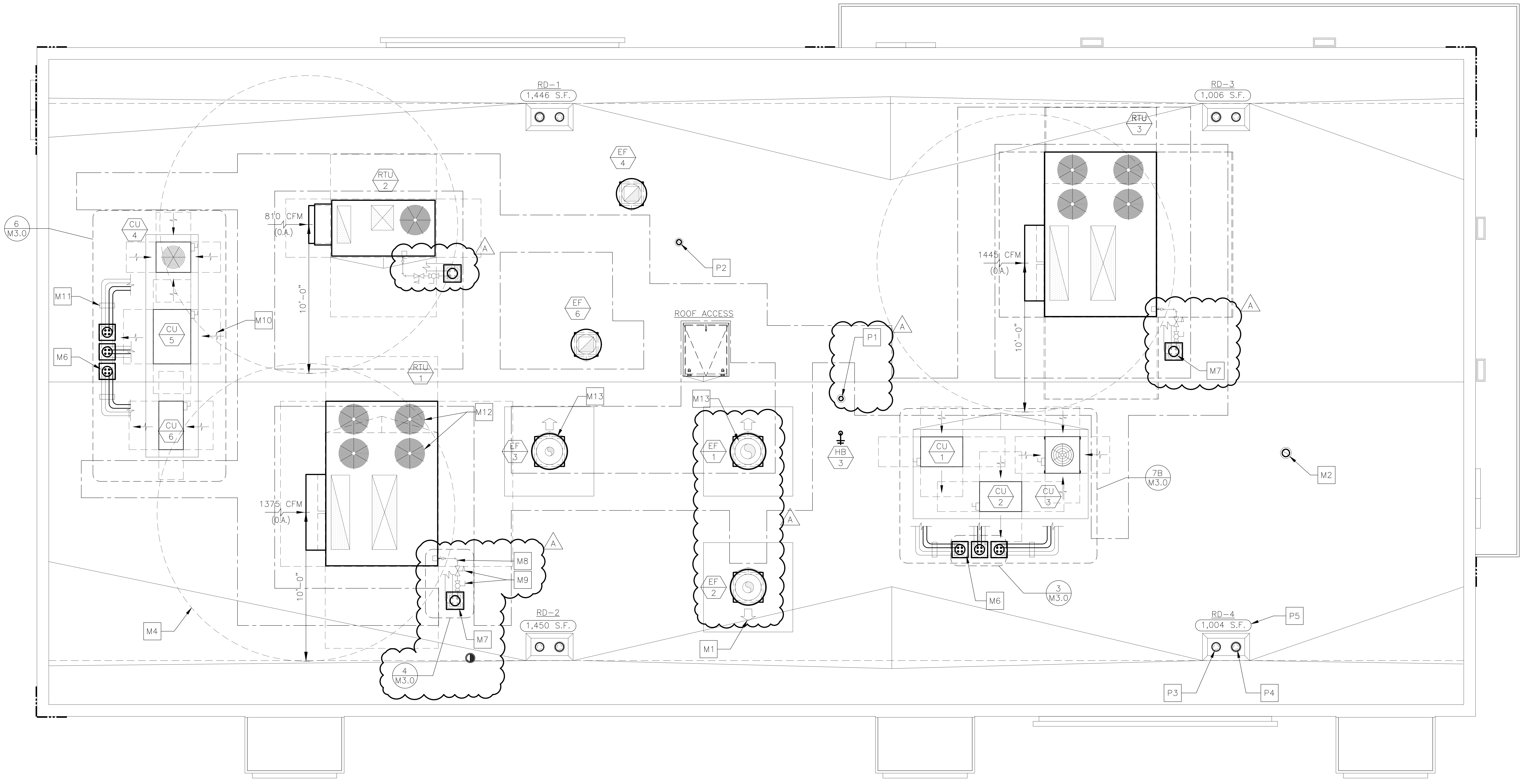
DRAWN BY: J.CARRAS
STD ISSUE DATE: 2025 05
REVIEWED BY: Z.GROVE
DATE ISSUED: 10–16–2025
C.S.G. PROJECT #: TKA.36772

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
S4.0
STRUCTURAL NOTES



CONDENSATE LINE FROM RTUs DOWN THROUGH THE ROOF ON UNITS BASE, TO BE FURNISHED AND INSTALLED BY PC. SEE PLUMBING SHEETS P1.2, P2.1 AND COORDINATION SCHEDULE ON M4.1.

## 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 | NOT USED |
| 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 | ROOF PIPE PORTAL FOR ROOFTOP UNITS (TYP. 3 PLACES) |
| M8 | GAS PIPING FROM ROOF PORTAL TO ROOFTOP UNIT SHALL BE COATED WITH A CORROSION RESISTANT PAINT (SEE SHEET M4.0 "NATURAL GAS SYSTEMS", NOTE 8). |
| M9 | GAS PRESSURE REGULATOR AND SHUT–OFF VALVE, SET PRESSURE AT 7" W.C. – NATURAL GAS (TYP. OF 3) |
| 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 | CONCENTRIC VENTING KIT FOR COMBUSTION AIR INTAKE AND FLUE EXHAUST FOR SEALED COMBUSTION WATER HEATER (SEE PLUMBING DRAWINGS). PROVIDE PORTALS PLUS PLASTIFLASH WITH C–126 CAP (OR EQUAL) FOR ROOF PENETRATION. |
| 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.) |

A

## PIPE PORTAL SCHEDULE

| MANUFACTURER | CURB DIMENSIONS | CURB TYPE | CAP TYPE (QTY) | SERVES |
|---|---|---|---|---|
| RPS | 12"x12"x11"H | RC–2A | N18 (1) | RTU–1 THROUGH RTU–3 |
| RPS | 43"x12"x13"H | RC–2A | N18 (3) | CU–1 THROUGH CU–6 |

## SEQUENCE OF OPERATION

THERMOSTAT SETTINGS

| MODE | FAN | SETPOINTS COOLING | SETPOINTS 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 SUPPLY AND OUTSIDE AIR BY 600 CFM, WHILE MAINTAINING 1240 CFM RETURN AIR. COORDINATE WITH E.C. AND BAS SUPPLIER.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 02/19/26 | CHANGE WH & RTUs TO GAS, DECOR UPDATES | TP |

MATTHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

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DRAWN BY
ES

STD ISSUE DATE
2025 05

REVIEWED BY
CS

DATE ISSUED
10–16–2025

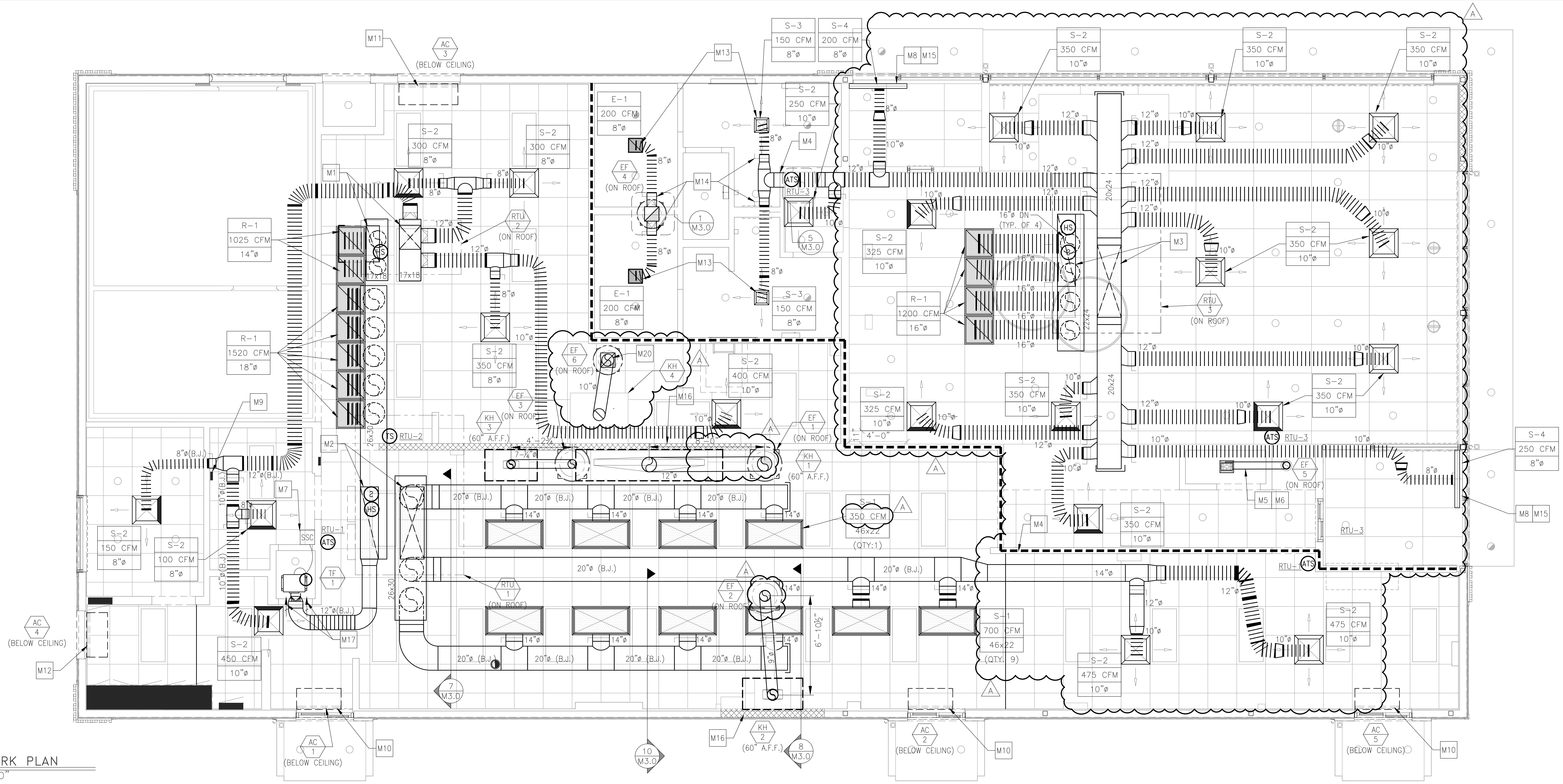
TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281

SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
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 | 18x20 SUPPLY AND 11x30 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 | 6"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 TO 80° F. |
| 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 | 6"X18" DOOR LOUVER BY NATIONAL GUARD PRODUCTS, MODEL: L–700–RX. ONE IN EACH DOOR TO IT CLOSET (200 CFM) (TYP. OF 2). SEE ARCHITECTURAL PLANS FOR LOUVERED DOOR SCHEDULE. |
| M18 | NOT USED |
| M19 | NOT USED |
| M20 | 10" TYPE 304 STAINLESS STEEL DUCT (BY KES) 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. |

## 2018 IMC SECTION 403.3 - VENTILATION SCHEDULE

| UNIT | AREA SERVED | AREA FT² (Az) | CFM/PERSON (Rp) | CFM/FT² (Ra) | PEOPLE OR PEOPLE/1000 FT² (Pz) | UNCORRECTED 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 | 343 | 5 | 0.06 | 4 | 41 | 0.8 | 0.98 | | | | |
| | KITCHEN | 714 | 7.5 | 0.18 | 18 | - | 0.8 | | | | | |
| | | | | | | 305 | | | 311 | 1375 | | |
| RTU-2 | SUPPORT | 603 | 0 | 0.12 | 0 | 72 | 0.8 | 0.84 | - | - | | |
| | MANAGER'S OFFICE | 60 | 5 | 0.06 | 1 | 9 | 0.8 | | - | - | | |
| | CREW ROOM | 96 | 5 | 0.06 | 5 | 30 | 0.8 | | - | - | | |
| | ORDER | 140 | 5 | 0.06 | 7 | 43 | 0.8 | | - | - | | |
| | | | | | | 154 | | | 183 | 810 | | |
| RTU-3 | DINING | 1284 | 7.5 | 0.18 | 90 | 905 | 0.8 | 0.91 | - | - | | |
| | VESTIBULE 1 | 57 | 0 | 0.06 | 0 | 3 | 0.8 | | - | - | | |
| | VESTIBULE 2 | 44 | 0 | 0.06 | 0 | 3 | 0.8 | | - | - | | |
| | WOMEN'S | 135 | 0 | 0.06 | 0 | 8 | 0.8 | | - | - | | |
| | MEN'S | 122 | 0 | 0.06 | 0 | 7 | 0.8 | | - | - | | |
| | | | | | | 927 | | | 1018 | 1445 | | |
| EF-1, 2 & 3 | KITCHEN | 714 | - | 0.7 | - | - | - | - | - | - | 500 | 2405 |
| EF-4 | WOMEN'S | 135 | - | - | - | - | - | - | - | - | 100 | 200 |
| | MEN'S | 122 | - | - | - | - | - | | - | - | 100 | 200 |
| EF-5 | JANITOR'S CLOSET | 19 | - | - | - | - | - | | - | - | 50 | 75 |
| EF-6 | WAREWASHER | - | - | - | - | - | - | | - | - | 350 | 600 |
| | | | | | | | | | | TOTAL: | 1100 | 3480 |

* ZONE AIR DISTRIBUTION EFFECTIVENESS BASED ON ASHRAE 62.1 TABLE 6.2 FOR CEILING SUPPLY PF WARM AIR 15° F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN (IMC TABLE 403.3.1.2)

** VENTILATION SYSTEM EFFICIENCY BASED ON ASHRAE 62.1 TABLE 6.3 AND SECTION 6.2.5 (IMC SECTION 403.3.2.3 MZ)

*** CORRECTED REQUIRED O/A INTAKE REQUIRED FOR SYSTEM CALCULATED BASED ON ASHRAE 62.1 SECTION 6.2 (IMC SECTION 403.3)

## AIR BALANCE SCHEDULE

| UNIT | SUPPLY AIR | RETURN AIR | OUTDOOR AIR | EXHAUST AIR | PRESSURE |
|---|---|---|---|---|---|
| RTU-1 | 7600 | 6225 | 1375 | | 1375 |
| RTU-2 | 2050 | 1240 | 810 | | 810 |
| RTU-3 | 4800 | 3355 | 1445 | | 1445 |
| EF-1 | | | | 1350 | -1350 |
| EF-2 | | | | 575 | -575 |
| EF-3 | | | | 480 | -480 |
| EF-4 | | | | 400 | -400 |
| EF-5 | | | | 75 | -75 |
| EF-6 | | | | 600 | -600 |
| TOTALS | 14450 | 10820 | 3630 | 3480 | 150 |

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, RTU–2 SHALL BE DECREASED BY 600 CFM ACCORDINGLY. REFER TO M1.0 FOR ADDITIONAL DETAILS OF SEQUENCE OF OPERATIONS AND INTERLOCKING REQUIREMENTS.

## HEATING SCHEDULE

| EQUIPMENT | INPUT (BTU/HR) | OUTPUT (BTU/HR) | REQUIRED HEAT (BTU/HR) |
|---|---|---|---|
| ROOFTOP UNIT (RTU-1) | 260,000 | 208,000 | 144,013 |
| ROOFTOP UNIT (RTU-2) | 150,000 | 120,000 | 87,902 |
| ROOFTOP UNIT (RTU-3) | 260,000 | 208,000 | 176,932 |
| TOTALS | 670,000 | 536,000 | 408,847 |

A

| REV | DATE | BY | DESCRIPTION |
|---|---|---|---|
| – | – | | |

MATTHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

PREPARED BY:
CORE STATES GROUP
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Bentonville, AR 72712
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PREPARED FOR:
McDonald's USA, LLC

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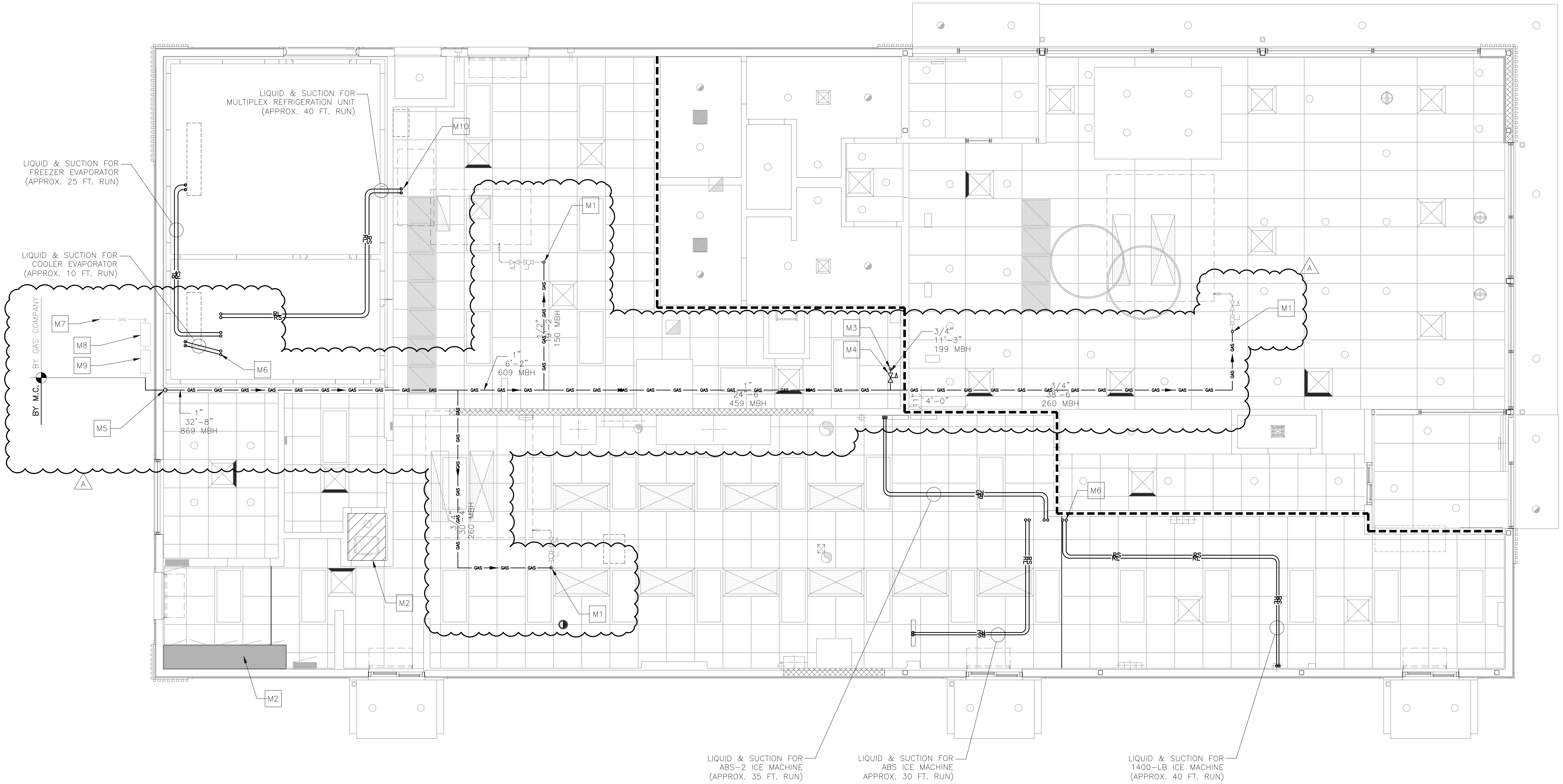
DRAWN BY: ES
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10–16–2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
M1.2
DUCTWORK PLAN


LIQUID & SUCTION FOR MULTIPLEX REFRIGERATION UNIT (APPROX. 40 FT. RUN)
LIQUID & SUCTION FOR FREEZER EVAPORATOR (APPROX. 25 FT. RUN)
LIQUID & SUCTION FOR COOLER EVAPORATOR (APPROX. 10 FT. RUN)
M10
M1
M7
M8
M9
M6
M5
BY GAS COMPANY
BY M.C.
1" 32'-8" 869 MBH
1" 6'-2" 609 MBH
1/2" 19' 150 MBH
1" 24'-6" 459 MBH
M3
M4
3/4" 11'-3" 199 MBH
4'-0"
3/4" 38'-6" 260 MBH
M1
M6
3/4" 30' 260 MBH
M2
M1
M2
A
LIQUID & SUCTION FOR ABS-2 ICE MACHINE (APPROX. 35 FT. RUN)
LIQUID & SUCTION FOR ABS ICE MACHINE (APPROX. 30 FT. RUN)
LIQUID & SUCTION FOR 1400-LB ICE MACHINE (APPROX. 40 FT. RUN)

## MECHANICAL PIPING PLAN

1 / M1.4

1/4"=1'-0"

## DRAWING NOTES

1. GAS PIPING LENGTHS ARE APPROXIMATE AND ARE SHOWN FOR SIZING PURPOSES ONLY. A
2. REFRIGERANT PIPE SIZES SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

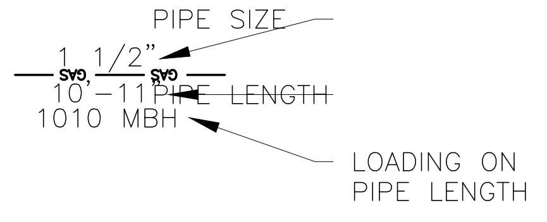
## KEYED NOTES

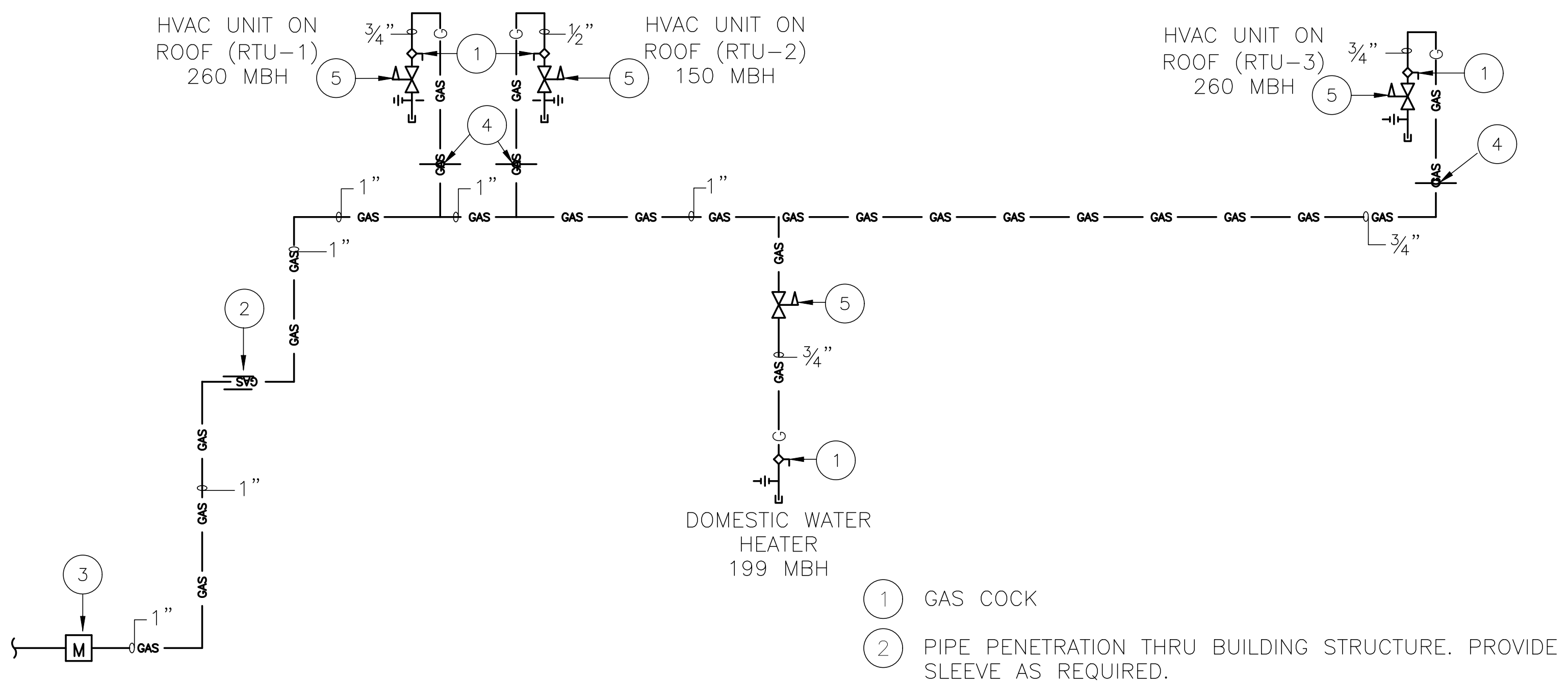
| | |
|---|---|
| M1 | GAS PIPE UP THROUGH ROOF TO RTU. |
| M2 | UTILITIES SHALL NOT BE ROUTED ABOVE TECH. CLOSET. OR SWITCHGEAR. |
| M3 | GAS PIPE DOWN TO WATER HEATER – APPROX. 10 FT. DROP |
| M4 | SIZE REGULATOR PROPERLY FOR APPLICATION – SET GAS PRESSURE REGULATOR OUTLET PRESSURE TO 10" W.C. AND PROVIDE VENT THROUGH ROOF AS REQUIRED |
| M5 | GAS PIPE UP IN WALL – APPROX. 10 FT. RISE |
| M6 | REFRIGERANT LIQUID AND SUCTION LINES UP THROUGH ROOF TO CONDENSING UNITS (TYP. 6 PLACES – SEE DETAIL 3 ON DRAWING M3.0) |
| M7 | INCOMING SERVICE LINE – SEE GAS PIPING NOTES ON DRAWING M4.0 |
| M8 | INCOMING SERVICE REGULATOR SET TO 2 PSIG |
| M9 | INCOMING SERVICE METER – SEE GAS LOAD SCHEDULE FOR SIZING |
| M10 | REFRIGERANT LINES DOWN TO SODA SYSTEM (MULTIPLEX). |

### GAS LOAD SCHEDULE

| EQUIPMENT | INPUT (BTU/HR) | GAS FLOW (1,000 BTU/CF) (CF/HR) |
|---|---|---|
| ROOFTOP UNIT (RTU-1) | 260,000 | 260 |
| ROOFTOP UNIT (RTU-2) | 150,000 | 150 |
| ROOFTOP UNIT (RTU-3) | 260,000 | 260 |
| WATER HEATER (WH-1) | 199,000 | 199 |
| TOTAL | 869,000 | 869 |

## PIPING KEY




A
HVAC UNIT ON ROOF (RTU-1) 260 MBH
HVAC UNIT ON ROOF (RTU-2) 150 MBH
HVAC UNIT ON ROOF (RTU-3) 260 MBH
¾"
½"
1"
¾"
GAS
1
2
3
4
5
M
DOMESTIC WATER HEATER 199 MBH

GAS DEMAND: 869 MBH
GAS PRESSURE: 2 PSIG

## GAS RISER DIAGRAM

NOT TO SCALE

① GAS COCK
② PIPE PENETRATION THRU BUILDING STRUCTURE. PROVIDE PIPE SLEEVE AS REQUIRED.
③ GAS COMPANY METER/REGULATOR
④ GAS PIPING UP THRU THE ROOF. COORDINATE PIPE ROOF PENETRATION WITH AC UNIT LOCATION IN THE FIELD.
⑤ GAS REGULATOR (SEE DETAIL 4/M3.0)

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 02/03/26 | CHANGE WH & RTUs TO GAS, DECOR UPDATES | TP |

MATHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

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DRAWN BY: ES
STD ISSUE DATE: 2025 05
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TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

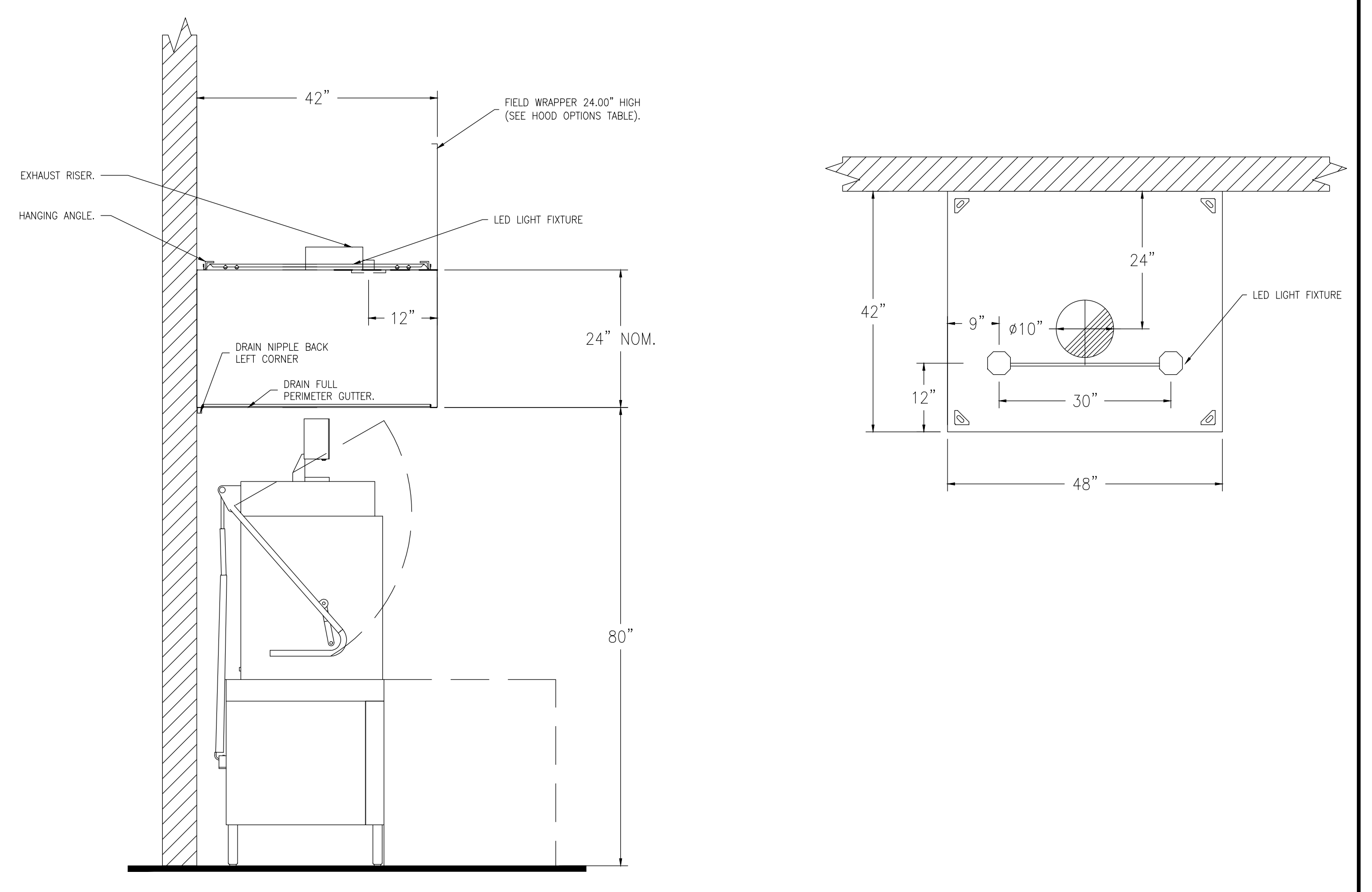
SHEET NO.
024-0281.00.0
M1.4
MECH. PIPING PLAN

*HOOD INFORMATION*

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

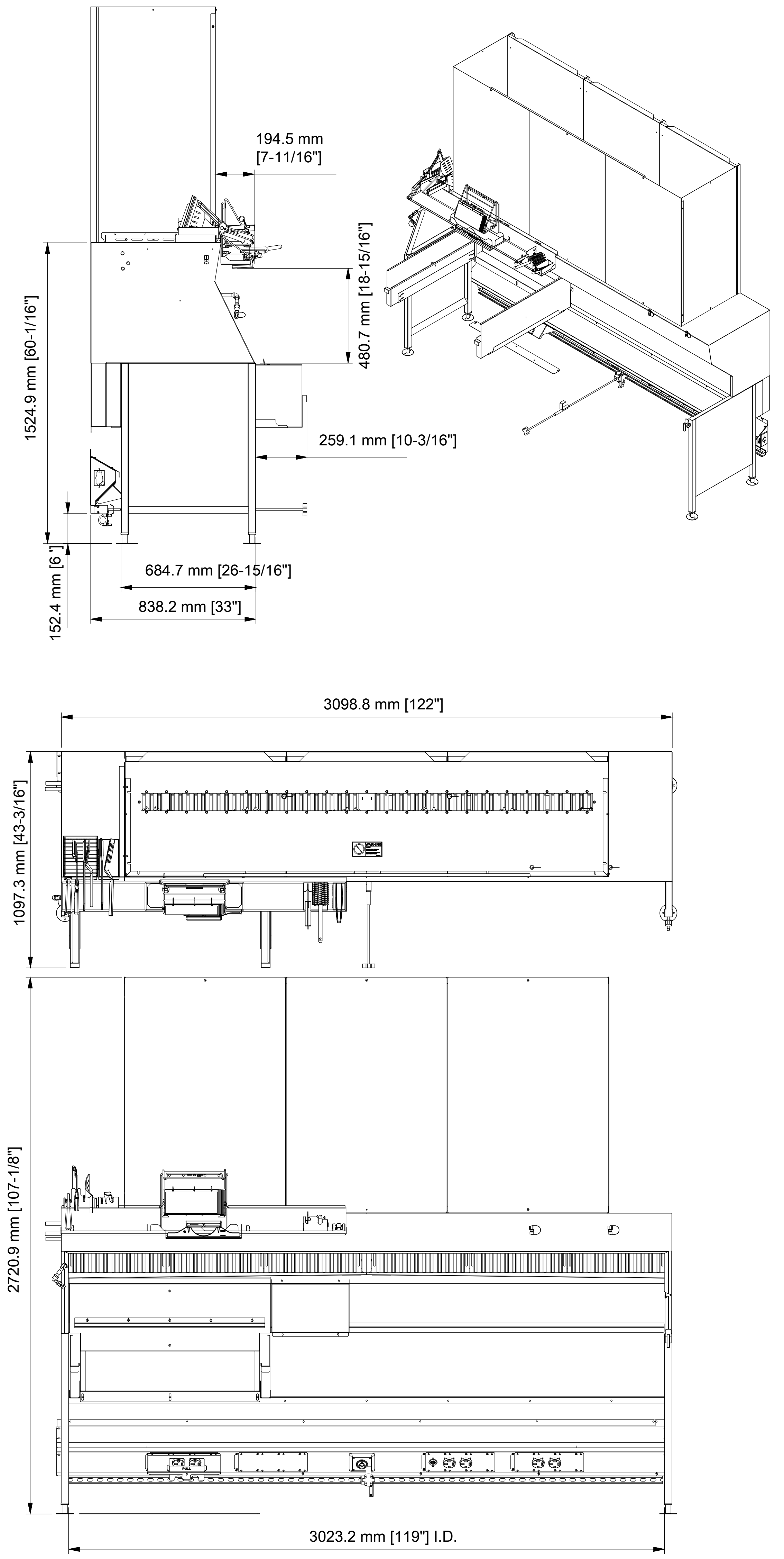
*HOOD OPTIONS*

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


42"
FIELD WRAPPER 24.00" HIGH (SEE HOOD OPTIONS TABLE).
EXHAUST RISER.
HANGING ANGLE.
LED LIGHT FIXTURE
12"
24" NOM.
DRAIN NIPPLE BACK LEFT CORNER
DRAIN FULL PERIMETER GUTTER.
80"
24"
42"
9"
ø10"
LED LIGHT FIXTURE
12"
30"
48"

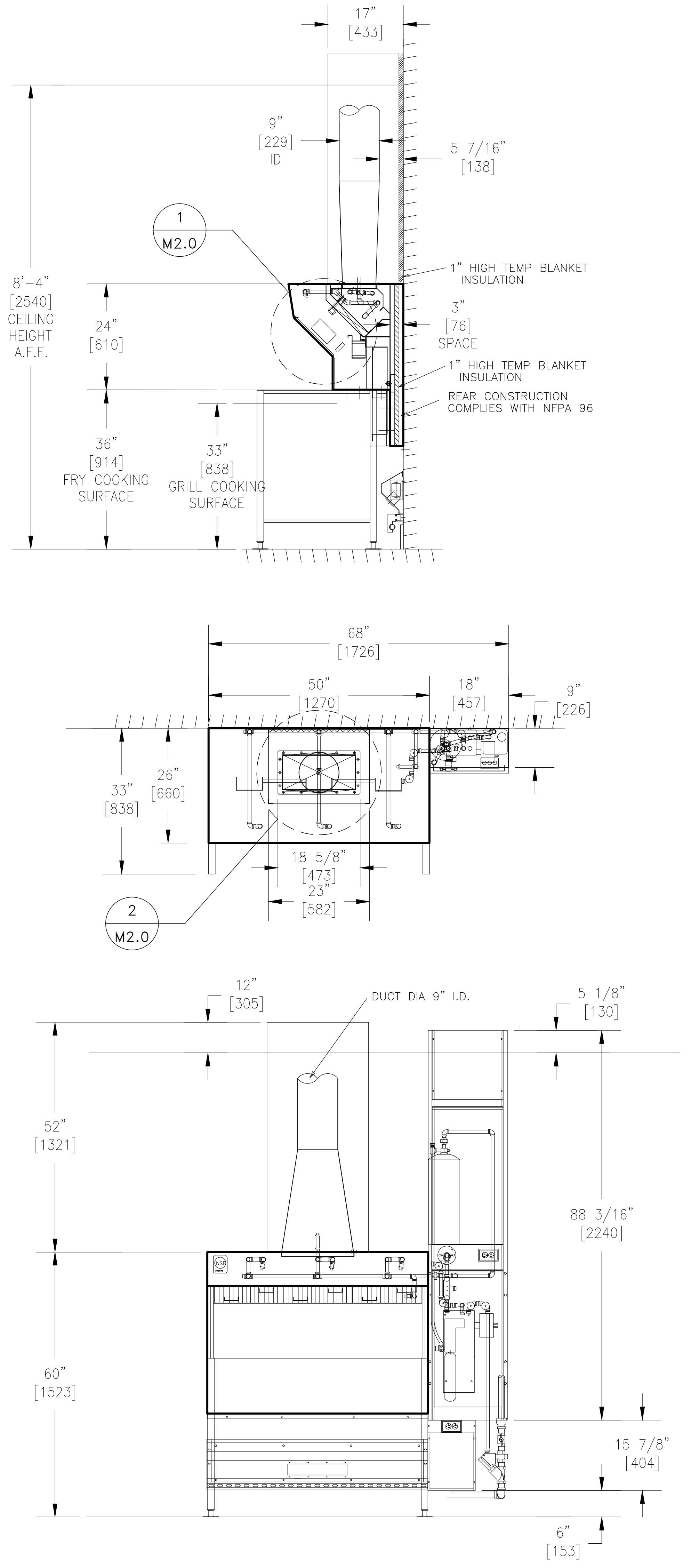
## KITCHEN EXHAUST HOOD (TYPE II)

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



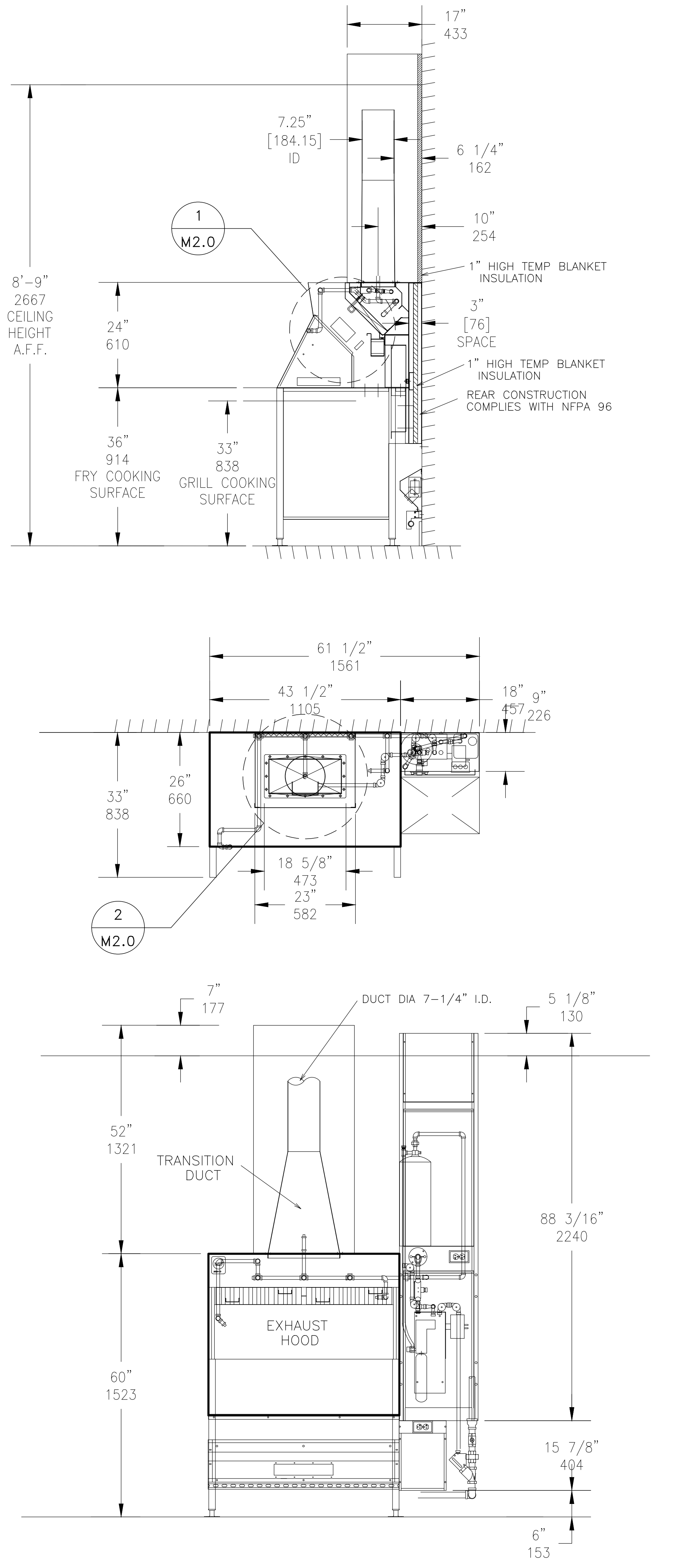
## KITCHEN EXHAUST HOOD (TYPE I)

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



## KITCHEN EXHAUST HOOD (TYPE I)

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

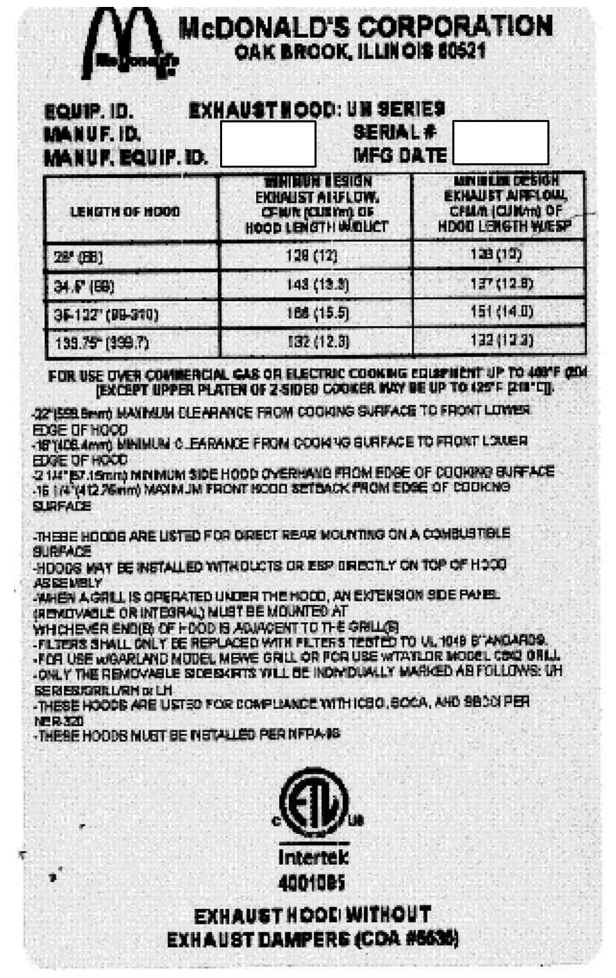


## KITCHEN EXHAUST HOOD (TYPE I)

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

## 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.


**McDONALD'S CORPORATION**
**OAK BROOK, ILLINOIS 60521**

EQUIP. ID. EXHAUST HOOD: UH SERIES
MANUF. ID.
MANUF. EQUIP. ID.
SERIAL #
MFG DATE

| LENGTH OF HOOD | MINIMUM DESIGN EXHAUST AIRFLOW, CFM/ft (CU.M/m) OF HOOD LENGTH W/DUCT | MINIMUM DESIGN EXHAUST AIRFLOW, CFM/ft (CU.M/m) OF HOOD LENGTH W/ESP |
|---|---|---|
| 26" (66) | 128 (12) | 128 (12) |
| 34.6" (88) | 143 (13.3) | 137 (12.8) |
| 36-122" (88-310) | 166 (15.5) | 151 (14.0) |
| 139.75" (353.7) | 132 (12.3) | 132 (12.3) |

FOR USE OVER COMMERCIAL GAS OR ELECTRIC COOKING EQUIPMENT UP TO 400°F (204 [EXCEPT UPPER PLATEN OF 2-SIDED COOKER MAY BE UP TO 425°F [218°C]).

-22"(558.8mm) MAXIMUM CLEARANCE FROM COOKING SURFACE TO FRONT LOWER EDGE OF HOOD
-16"(406.4mm) MINIMUM CLEARANCE FROM COOKING SURFACE TO FRONT LOWER EDGE OF HOOD
-2 1/4"(57.15mm) MINIMUM SIDE HOOD OVERHANG FROM EDGE OF COOKING SURFACE
-16 1/4"(412.75mm) MAXIMUM FRONT HOOD SETBACK FROM EDGE OF COOKING SURFACE

-THESE HOODS ARE LISTED FOR DIRECT REAR MOUNTING ON A COMBUSTIBLE SURFACE
-HOODS MAY BE INSTALLED WITH DUCTS OR ESP DIRECTLY ON TOP OF HOOD ASSEMBLY
-WHEN A GRILL IS OPERATED UNDER THE HOOD, AN EXTENSION SIDE PANEL (REMOVABLE OR INTEGRAL) MUST BE MOUNTED AT WHICHEVER END(S) OF HOOD IS ADJACENT TO THE GRILL(S)
-FILTERS SHALL ONLY BE REPLACED WITH FILTERS TESTED TO UL 1046 STANDARDS.
-FOR USE w/GARLAND MODEL MEWE GRILL OR FOR USE w/TAYLOR MODEL C842 GRILL
-ONLY THE REMOVABLE SIDESKIRTS WILL BE INDIVIDUALLY MARKED AS FOLLOWS: UH SERIES/GRILL/RH or LH
-THESE HOODS ARE LISTED FOR COMPLIANCE WITH ICBO, BOCA, AND SBCCI PER NER-320
-THESE HOODS MUST BE INSTALLED PER NFPA-96

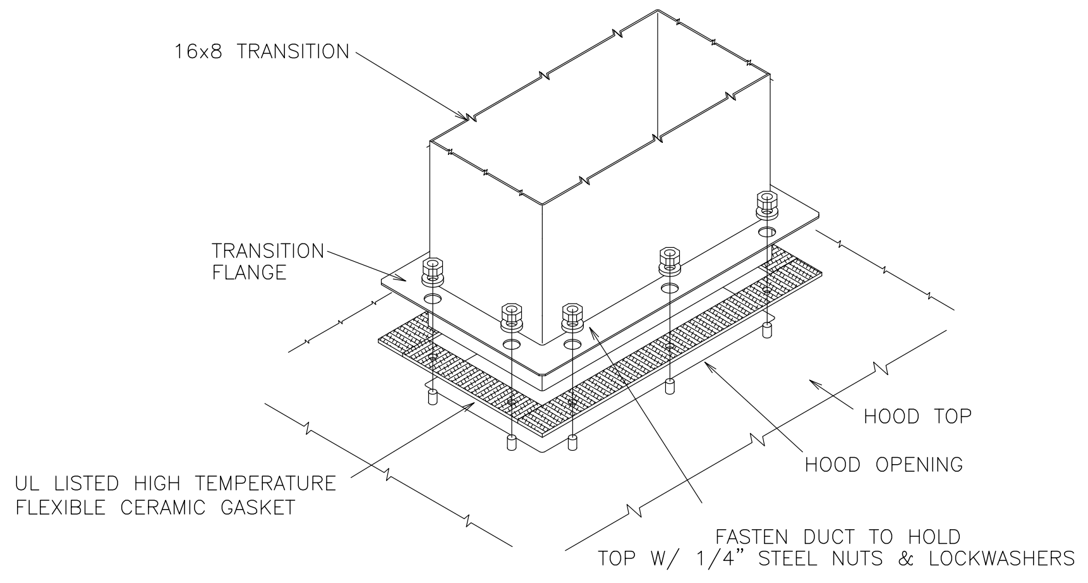
Intertek
4001085

EXHAUST HOOD WITHOUT
EXHAUST DAMPERS (COA #5636)

## DETAIL

UL LABEL
SCALE: NONE

1
M2.0


16x8 TRANSITION
TRANSITION FLANGE
HOOD TOP
HOOD OPENING
UL LISTED HIGH TEMPERATURE FLEXIBLE CERAMIC GASKET
FASTEN DUCT TO HOOD TOP W/ 1/4" STEEL NUTS & LOCKWASHERS

## DETAIL

HOOD CONNECTION
SCALE: NONE

2
M2.0

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
|  |  |  |  |

MATTHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

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DRAWN BY: ES
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

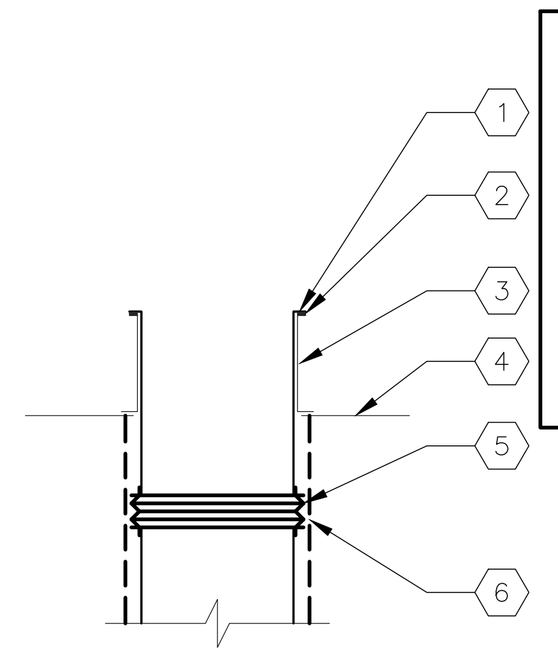
TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281

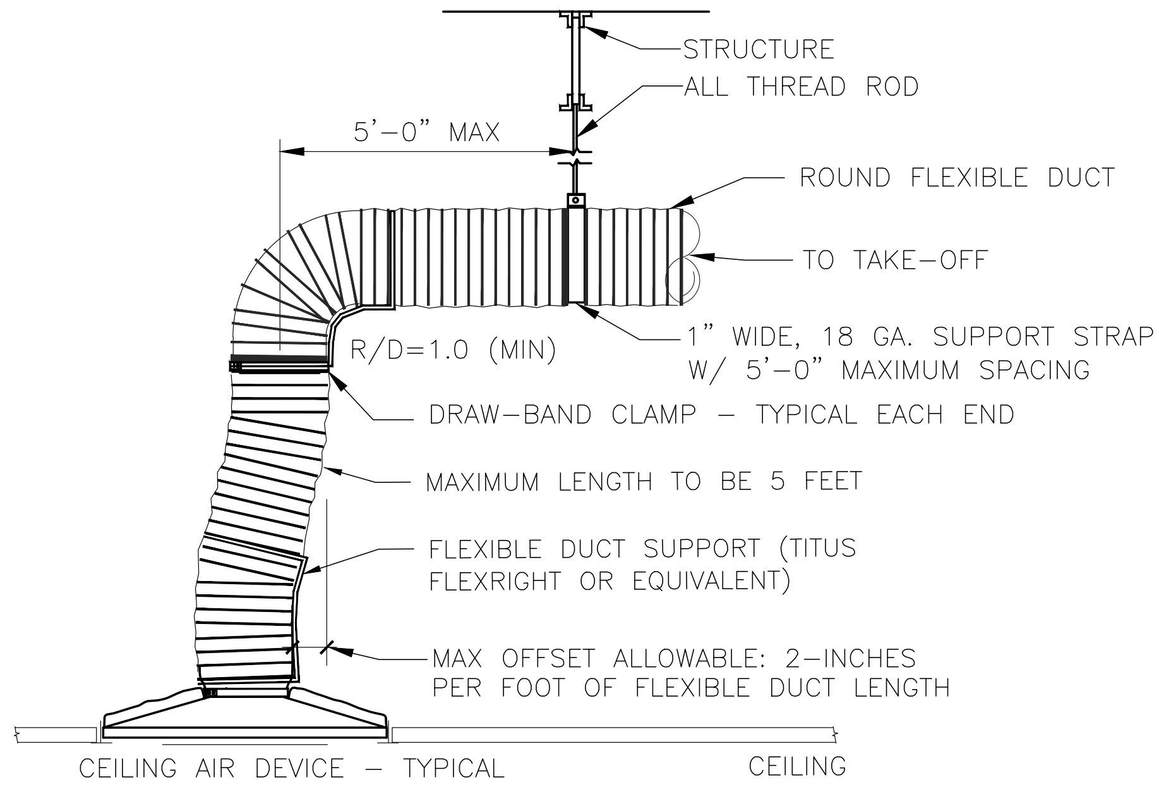
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
**M2.0**
EXHAUST HOODS

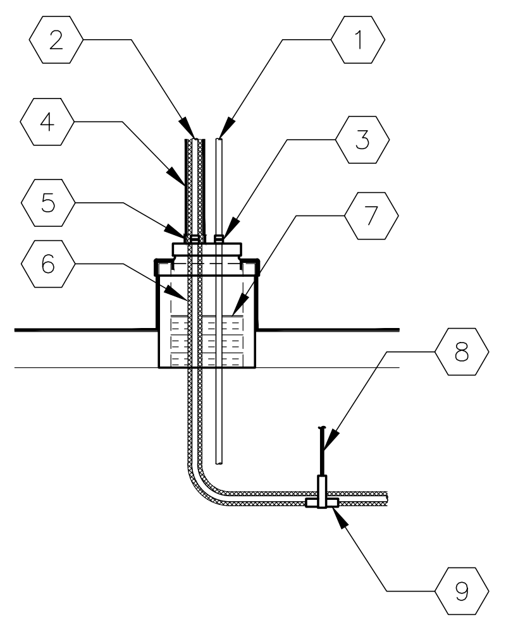


KEYED NOTES:
1. SHEET METAL DUCT DROP (SUPPLY, RETURN OR EXHAUST)
2. FOAM GASKET BETWEEN DUCT AND CURB
3. ROOF CURB
4. ROOF LINE
5. 6" FACE–TO–FACE CANVAS FLEXIBLE CONNECTION
6. 2" EXTERIOR INSULATION (SUPPLY AND RETURN)

DETAIL 1/M3.0
DUCT DROP INSTALLATION
SCALE: NONE

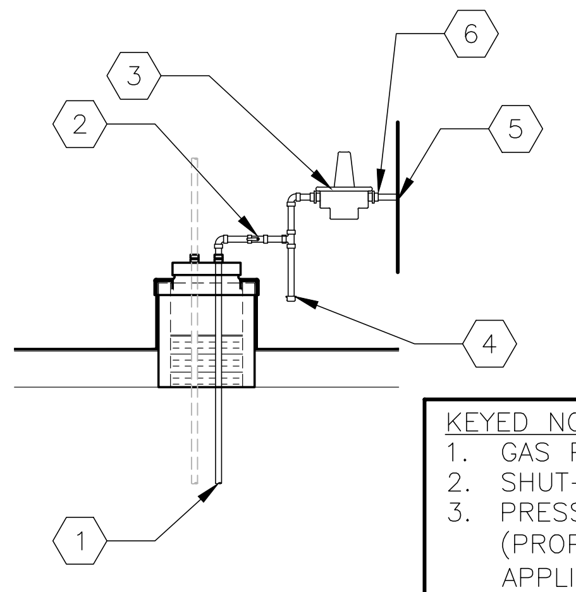

STRUCTURE
ALL THREAD ROD
5'–0" MAX
ROUND FLEXIBLE DUCT
TO TAKE–OFF
1" WIDE, 18 GA. SUPPORT STRAP W/ 5'–0" MAXIMUM SPACING
R/D=1.0 (MIN)
DRAW–BAND CLAMP – TYPICAL EACH END
MAXIMUM LENGTH TO BE 5 FEET
FLEXIBLE DUCT SUPPORT (TITUS FLEXRIGHT OR EQUIVALENT)
MAX OFFSET ALLOWABLE: 2–INCHES PER FOOT OF FLEXIBLE DUCT LENGTH
CEILING AIR DEVICE – TYPICAL
CEILING

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

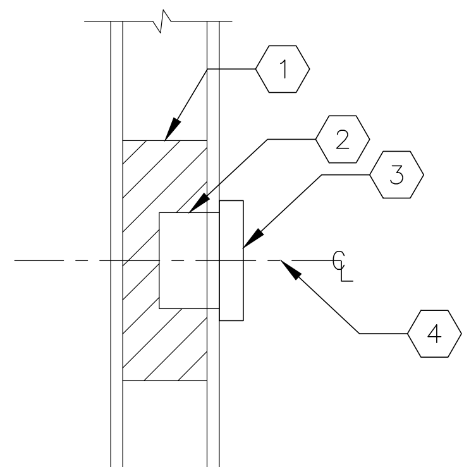
DETAIL 3/M3.0
REFRIGERANT PIPE INSTALLATION
SCALE: NONE



KEYED NOTES:
1. GAS PIPING
2. SHUT–OFF VALVE
3. PRESSURE REGULATOR (PROPERLY SIZED FOR APPLICATION)
4. DIRT LEG
5. ROOFTOP UNIT ENTRY
6. UNION (TYP.)

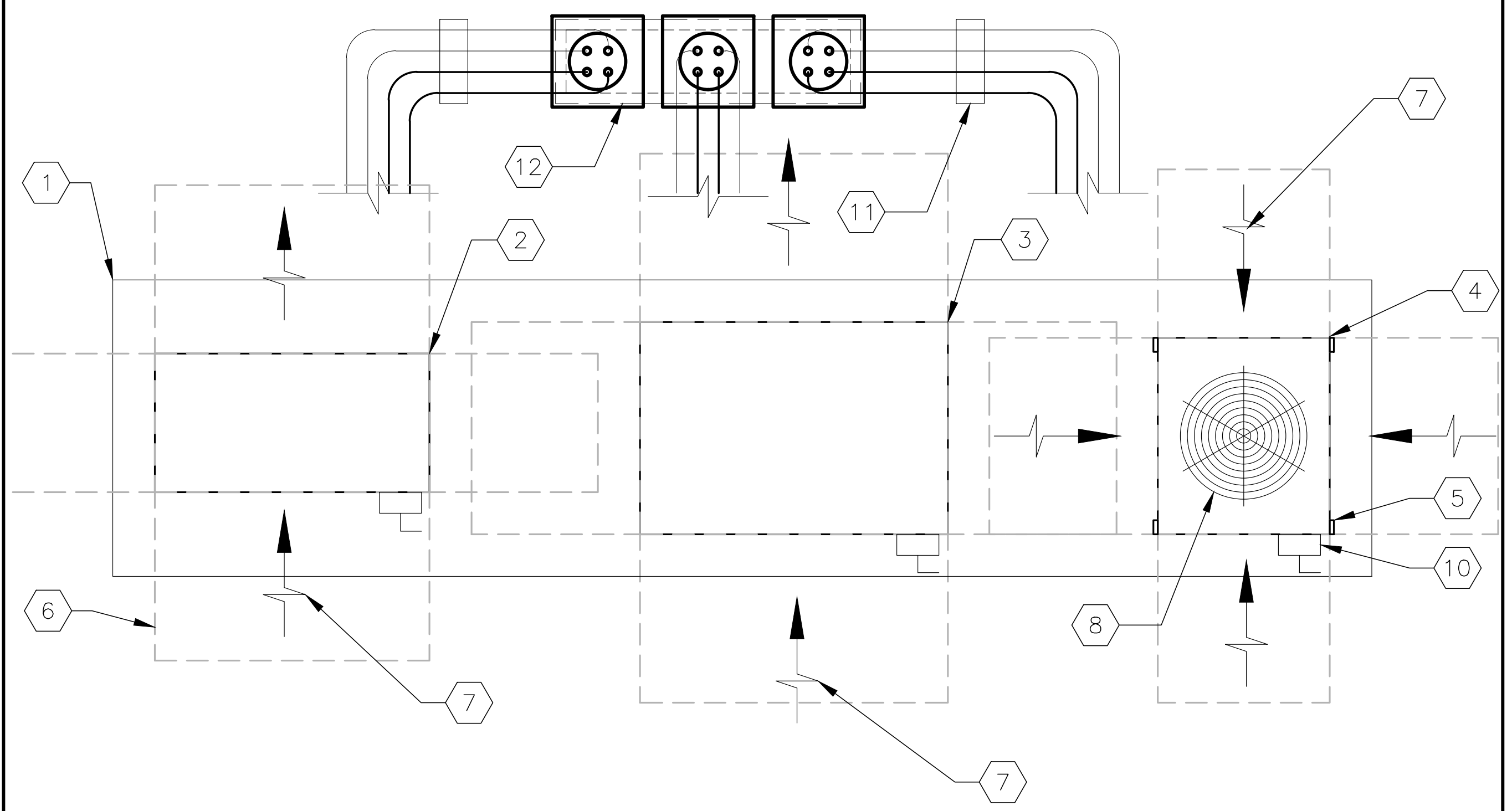
A

DETAIL 4/M3.0
GAS PIPE INSTALLATION
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

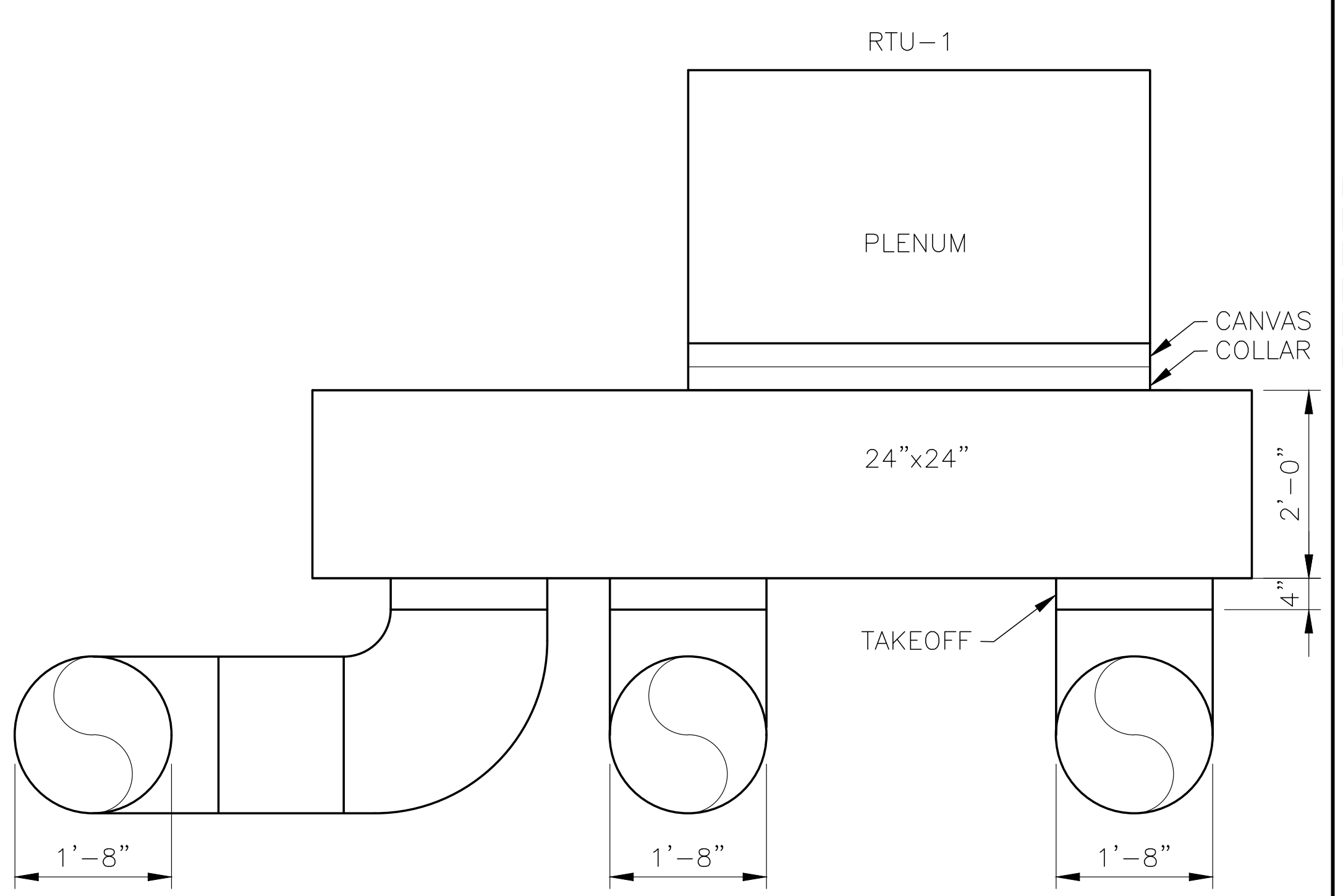


KEYED NOTES:
1. 180"Lx43"Wx14"H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL
2. 39⅛"Lx28⁵⁄₁₆"Wx19¾"H CONDENSING UNIT (COOLER).
3. 43⅞"Lx30½"Wx29¼"H CONDENSING UNIT (FREEZER).
4. 29"Lx24½"Wx34"H CONDENSING UNIT (MULTIPLEX).
5. FASTEN CONDENSING UNIT TO TOP OF PLATFORM AND SEAL FASTENER PENETRATIONS 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

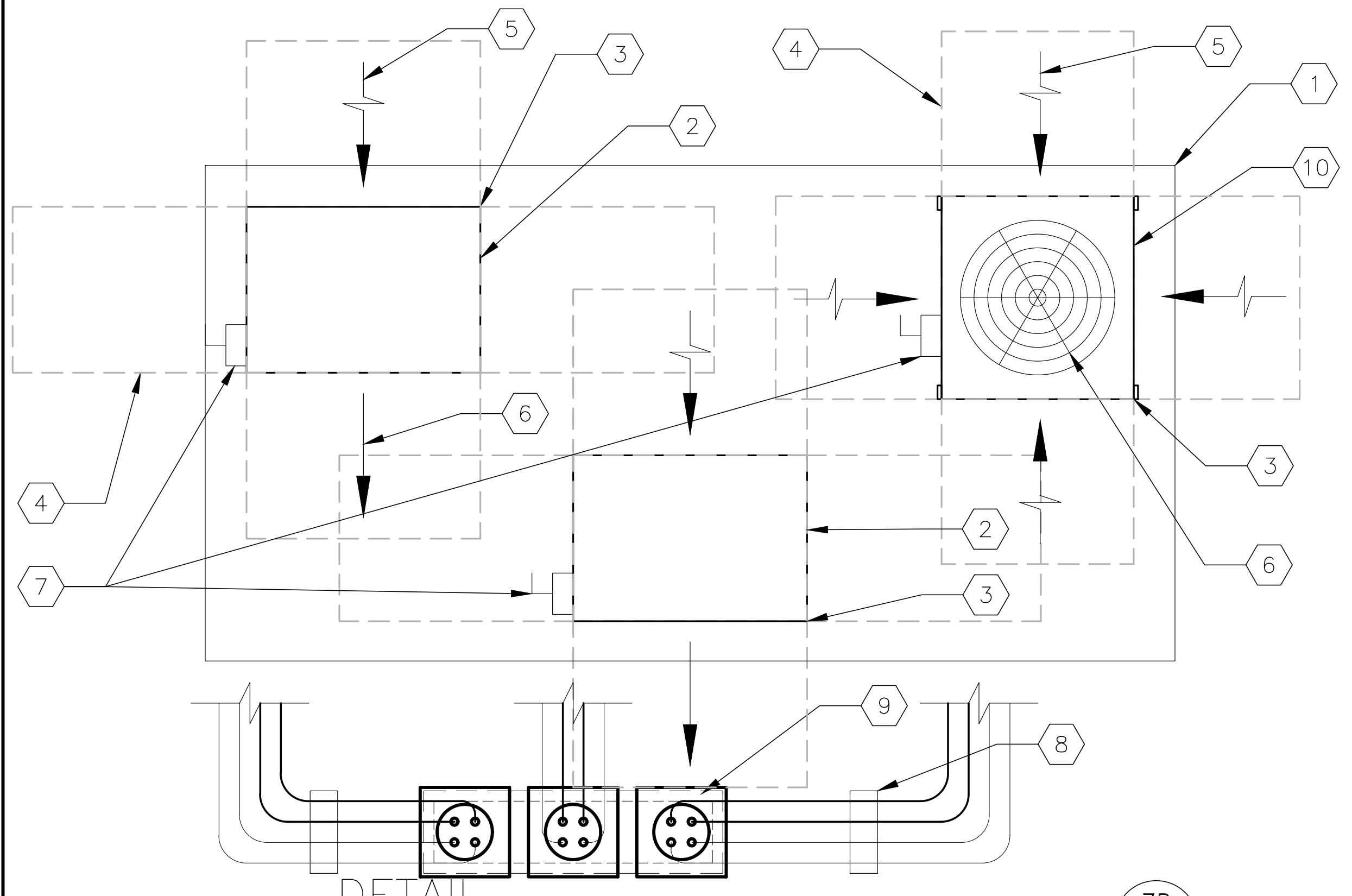
CONDUIT SIZES: (PER CONDENSING UNIT
(1) ¾" POWER
(1) ¾" CONTROL

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"

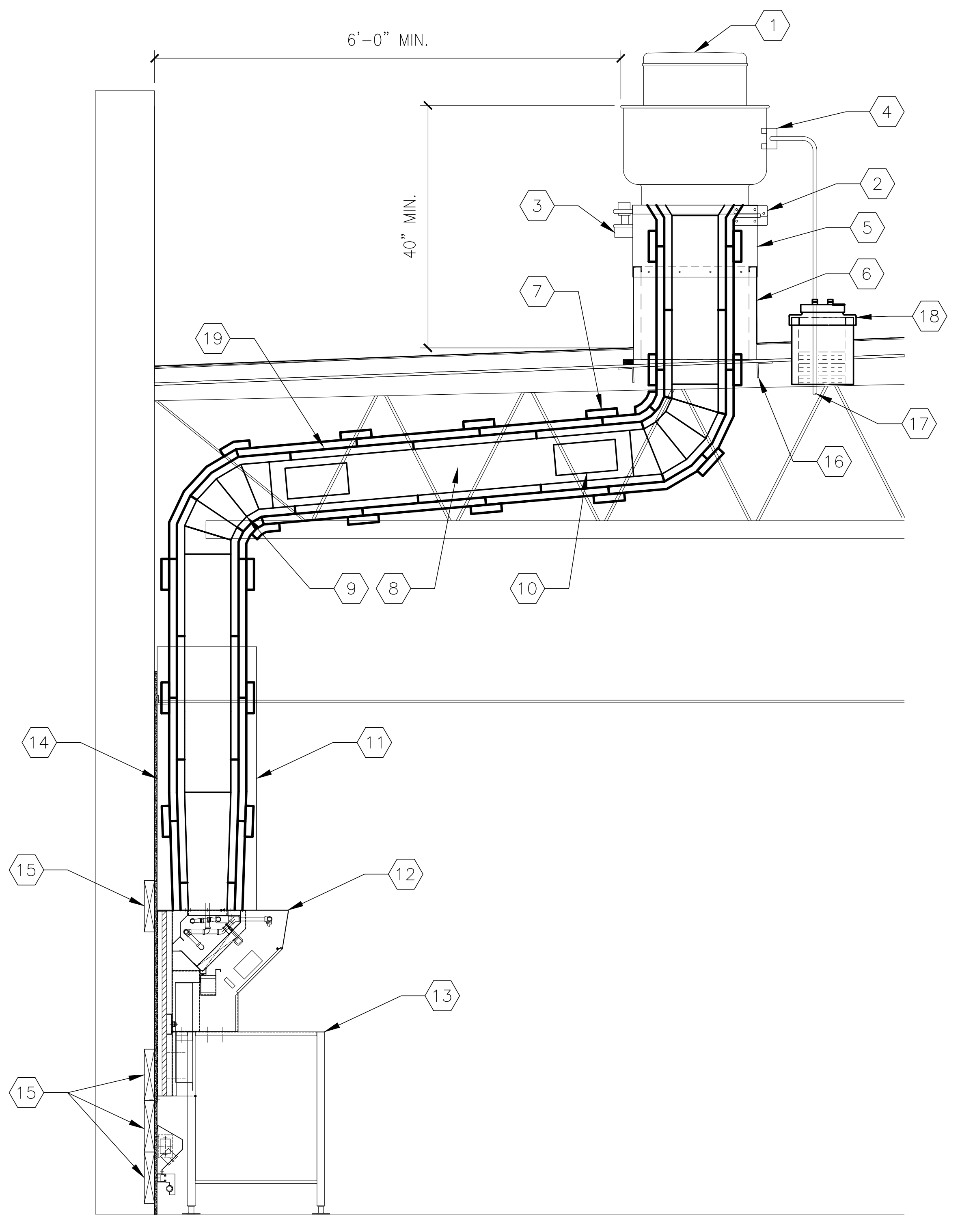


KEYED NOTES:
1. 141"x72"x14"H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL
2. 34"x24⅛"x25¾"H CONDENSING UNIT
3. FASTEN CONDENSING UNIT TO TOP OF PLATFORM AND SEAL FASTENER PENETRATIONS WITH UV RESISTANT SEALANT
4. OUTLINE OF SERVICE CLEARANCE EXTENDING FROM CONDENSING UNIT ON ALL SIDES
5. CONDENSER 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

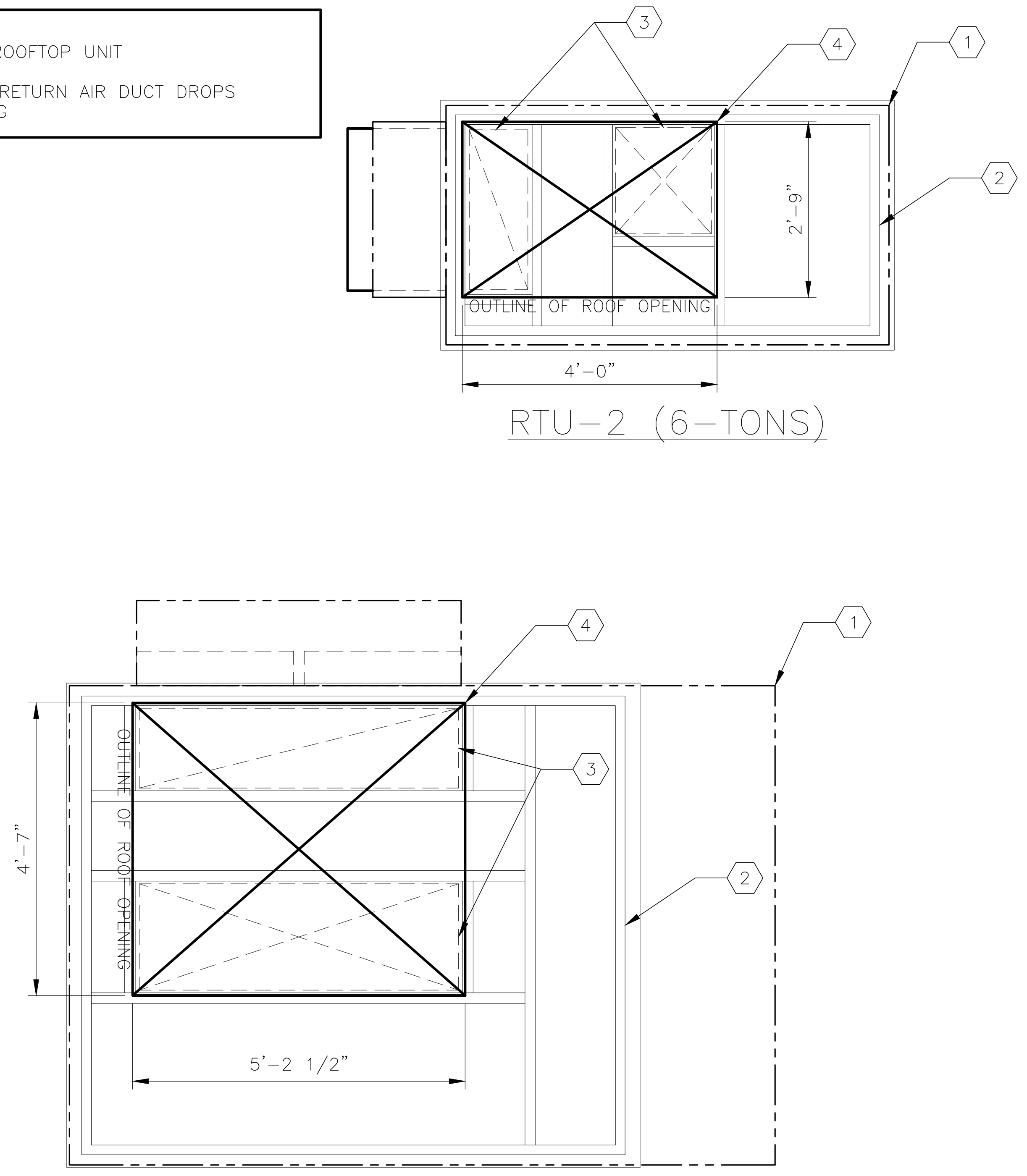
DETAIL 7B/M3.0
REMOTE CONDENSER UNIT (CU–1, CU–2 & CU–3)
SCALE: ½"=1'–0"



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"

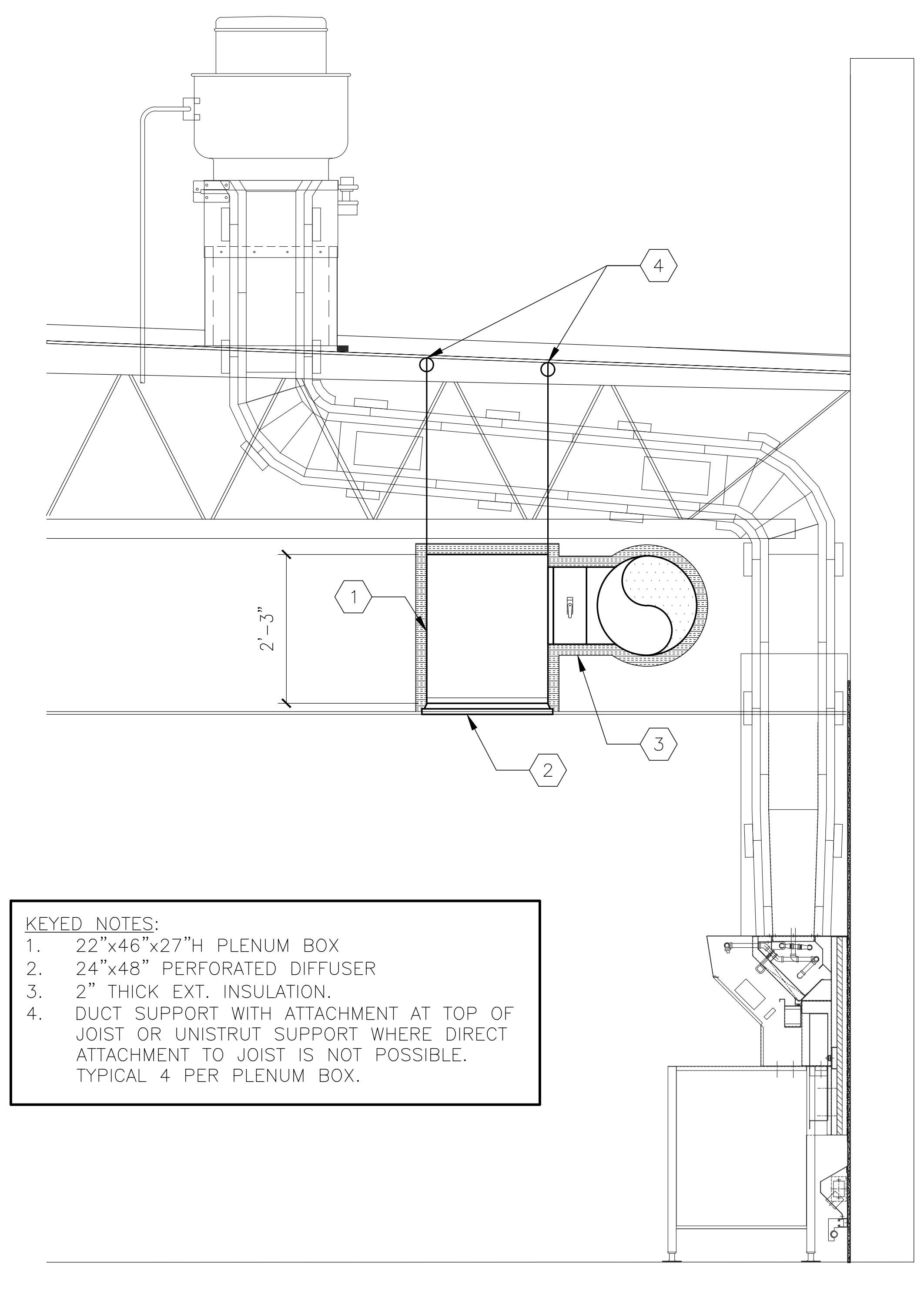
KEYED NOTES:
1. OUTLINE OF ROOFTOP UNIT
2. ROOF CURB
3. SUPPLY AND RETURN AIR DUCT DROPS
4. ROOF OPENING



RTU–2 (6–TONS)

RTU–1 (20 TONS) & RTU–3 (15–TONS)

DETAIL 9/M3.0
ROOF OPENINGS
SCALE: ½"=1'–0"



KEYED NOTES:
1. 22"x46"x27"H PLENUM BOX
2. 24"x48" PERFORATED DIFFUSER
3. 2" THICK EXT. INSULATION.
4. DUCT SUPPORT WITH ATTACHMENT AT TOP OF JOIST OR UNISTRUT SUPPORT WHERE DIRECT ATTACHMENT TO JOIST IS NOT POSSIBLE. TYPICAL 4 PER PLENUM BOX.

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

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| – | – | | – |

STATE OF MISSOURI
MATTHEW BRYAN LEWIS
NUMBER PE-2017029404
PROFESSIONAL ENGINEER
02/23/2026

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2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
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.

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.

NATURAL GAS SYSTEMS:
1. ALL GAS PIPING, WATER HEATER VENTS, INTAKES AND FLUES SHALL CONFORM TO THE CURRENT VERSION OF NFPA 54, NATIONAL FUEL GAS CODE, AND ANY LOCAL CODE REQUIREMENTS.
2. THE NATURAL GAS MAIN PIPE SIZING IS BASED ON THE FOLLOWING:
   A. MINIMUM SUPPLY PRESSURE AT THE METER OF 2 PSIG
   B. 1 PSIG PRESSURE DROP FROM METER TO FARTHEST APPLIANCE
   C. 1,000 BTU PER CU. FT. OF NATURAL GAS
3. GAS PIPING RUN-OUTS TO EQUIPMENT ARE SIZED BASED ON THE FOLLOWING:
   A. SUPPLY PRESSURE AT THE REGULATOR OF 10" W.C. (¼ PSIG)
   B. 0.5" W.C. PRESSURE DROP FROM REGULATOR TO FARTHEST APPLIANCE
   C. 1,000 BTU PER CU. FT. OF NATURAL GAS
4. ALL NATURAL GAS PIPE SHALL BE SCHEDULE 40 CARBON STEEL PIPE WITH MALLEABLE IRON FITTINGS AND SHALL BE COMPLY TO ONE OF THE FOLLOWING STANDARDS: ASME B36.10, 10M; ASTM A 53; OR ASTM A 106.
5. NATURAL GAS PRESSURE REGULATORS SHALL BE MAXITROL 325 SERIES OR EQUAL.

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6. ALL SUSPENDED STEEL PIPING SHALL BE SUPPORTED AS FOLLOWS:

| SIZE | MAX. HORIZ. SPACING | MAX. VERT. SPACING |
|---|---|---|
| ½" | 6 FT. | 6 FT. |
| ¾" TO 1" | 8 FT. | 8 FT. |
| ≥1¼" | 10 FT. | 10 FT. |

7. GAS PIPING SHALL NOT PENETRATE ANY FIRE-RATED CHASE OR SHAFT, DUCTWORK OR PLENUM.
8. ALL NATURAL GAS PIPING INSTALLED OUTDOORS SHALL BE COATED WITH A CORROSION RESISTANT PAINT. PAINT COLOR SHALL BE ORANGE OR YELLOW.
9. ALL INTAKE AND VENT PIPING FOR SEALED-COMBUSTION WATER HEATERS SHALL BE PVC OR ABS, SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR.
10. ALL WATER HEATER VENTS SHALL BE LOCATED A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A WATER HEATER VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE FLUE OR VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.
11. UPON COMPLETION OF INSTALLATION, THE GAS PIPING SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND SHALL BE PRESSURE TESTED. PRESSURE TESTING SHALL BE PERFORMED WITH THE EQUIPMENT SHUT-OFF VALVES IN THE CLOSED POSITION TO PROTECT EQUIPMENT FROM DAMAGE DUE TO EXCESSIVE PRESSURE.
12. AFTER THE PRESSURE TEST HAS BEEN COMPLETED AND ANY LEAKS REMEDIED, THE INSTALLING CONTRACTOR SHALL MEASURE AND VERIFY THE FOLLOWING GAS PRESSURES WHILE EQUIPMENT IS IN OPERATION:
   A. GRILL – 6" W.C. NATURAL, 14" W.C. L.P.
   B. FRYER – 6" W.C. NATURAL, 14" W.C. L.P.
   C. WATER HEATER – 6" W.C. NATURAL, 14" W.C. L.P.
   D. HVAC UNIT – 7" W.C. NATURAL, 14" W.C. L.P.
13. IF THE MINIMUM PRESSURES ARE NOT MET, THIS SHALL BE IMMEDIATELY REPORTED TO THE MCDONALD'S AREA CONSTRUCTION MANAGER.

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CONDENSATE PIPING:
1. CONDENSATE PIPING SHALL BE GALVANIZED STEEL, COPPER OR PVC.
2. PVC PIPE SHALL BE PAINTED WITH WATER BASED LATEX PAINTING TO RESIST DEGRADATION FROM ULTRAVIOLET EXPOSURE.
3. PIPE SUPPORTS SHALL BE RPS MODEL PMP-2 OR EQUAL. QUANTITY AS REQUIRED DEPENDANT UPON PIPING MATERIAL.
4. 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. |

5. CONDENSATE PIPING SHALL SLOPE A MINIMUM OF ⅛" PER FOOT.
6. 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" |

# LEGEND

| | |
|---|---|
| TS | TEMPERATURE SENSOR |
| ATS | AVERAGING TEMPERATURE SENSOR |
| CO2 | CO2 SENSOR FOR ROOFTOP UNIT DEMAND CONTROL VENTILATION |
| HS | HUMIDITY SENSOR |
| T | THERMOSTAT |
| S | SMOKE DETECTOR |
| KH<br>2 | EQUIPMENT TAG |
| R-1<br>1750 CFM<br>18"ø | DIFFUSER INFORMATION<br>LINE 1: TAG<br>LINE 2: AIRFLOW<br>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 |

MECHANICAL & PLUMBING COMMISSIONING

1. MECHANICAL & PLUMBING ENGINEER OF RECORD: REVIEW IECC CHAPER 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.

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| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 02/03/26 | CHANGE WH & RTUs TO GAS, DECOR UPDATES | TP |

MATTHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

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DRAWN BY: ES
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
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 |
| 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. ALL WATER HEATERS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY SEALED–COMBUSTION WATER HEATERS. THE INSTALLATION OF STANDARD EFFICIENCY GRAVITY–VENTED WATER HEATERS IS PROHIBITED. PLEASE REFER TO THE LATEST EDITION OF IECC FOR SERVICE WATER–HEATING EQUIPMENT PERFORMANCE EFFICIENCY REQUIREMENTS.
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. ALL GAS PIPING FOR COOKING EQUIPMENT SHALL TERMINATE IN THE CEILING PRIOR TO THE INSTALLATION OF THE PIPING CHASE. UPON INSTALLATION OF THE CHASE, THE GAS PIPING SHALL THEN BE CONTINUED IN THE CHASE FOR FINAL CONNECTION TO THE APPLIANCE.
14. ALL GAS PIPING FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE PLUMBING CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.
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–1 | TITUS<br>PRICE | PDR<br>PDDRE | LAY–IN | 48x24 | WHITE | 7 | 1,2,8 |
| S–2 | TITUS<br>PRICE | OMNI<br>SPD | LAY–IN | 24x24 | VARIES | 4,6,7 | 1,6,7,8 |
| S–3 | TITUS<br>PRICE | OMNI<br>SPD | LAY–IN | 12x12 | VARIES | 1,2,7 | 1,3,6,8 |
| S–4 | TITUS<br>PRICE | TBDI–80<br>TBDI4 | LAY–IN | 48"<br>(2) ¾" SLOTS | VARIES | 7 | 1,5,6,8 |
| R–1 | TITUS<br>PRICE | PAR<br>10 | LAY–IN | 24x24 | VARIES | 7 | 1,6,8 |
| R–2 | TITUS<br>PRICE | 355RL<br>530 | SURFACE MOUNT | 4x12 | WHITE | – | 8 |
| E–1 | TITUS<br>PRICE | 355RL<br>530 | LAY–IN | 12x12 | WHITE | 1,7 | 1,8 |

ACCESSORIES:

1. COMBINATION DAMPER AND EQUALIZING GRID
2. PLASTER FRAME FOR DRYWALL CEILING INSTALLATION
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. FABRICATE 46"x22"x27"H PLENUM WITH 14"ø SIDE INLET (SEE DETAIL 10 ON DRAWING M3.0)
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. ACCEPTABLE ALTERNATIVE MANUFACTURERS: NAILOR & METALAIRE.

# AIR CURTAIN SCHEDULE

| TAG | MANUFACTURER | MODEL | SERVES | AIRFLOW | ELEC | ACCESS. | NOTES |
|---|---|---|---|---|---|---|---|
| AC 1 | POWERED AIRE | MP 1–30E | CASH BOOTH | VARIABLE | MCA: 40.5A<br>MOCP: 60A<br>⅕ HP | 2,3,5,6 | 1,2 |
| AC 2 | POWERED AIRE | MP 1–30E | PRESENTER'S BOOTH | VARIABLE | MCA: 40.5A<br>MOCP: 60A<br>⅕ HP | 2,3,5,6 | 1,2 |
| AC 3 | POWERED AIRE | RBT 1–48 | STORAGE ENTRANCE | SINGLE SPEED 2899 CFM | MCA: 10<br>MOCP: 20<br>¾ HP | 1,2,4 | 1,2 |
| AC 4 | POWERED AIRE | RBT 1–36 | REAR ENTRANCE | SINGLE SPEED 2541 CFM | MCA: 10<br>MOCP: 20<br>¾ HP | 1,2,4 | 1,2 |
| AC 5 | POWERED AIRE | MP 1–30 | FORWARD PRESENTER'S BOOTH | VARIABLE | MCA: 5.5<br>MOCP: 10<br>⅕ HP | 2–4 | 1,2 |

ACCESSORIES:

1. NSF LISTING
2. DOOR SWITCH (AC–1,2,3: MAGNETIC; AC–4: ROLLER/PLUNGER)
3. DELAY TIMER
4. 120V/ 1ø /60HZ
5. UNIT MOUNTED VARIABLE SPEED SWITCH
6. 208V/ 1ø /60HZ

NOTES:

1. SET DELAY TIMER TO 30 SECONDS
2. MAINTAIN 7" CLEARANCE FOR MOTOR ACCESS ON SIDE OF AIR CURTAIN.

# CONTROLS

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

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

# KITCHEN HOOD SCHEDULE

| GENERAL | | | | | AIRFLOW | | FILTERS | |
|---|---|---|---|---|---|---|---|---|
| TAG | SERVED BY | MANUFACTURER | MODEL | NOTES | CFM | CFM/LF | QTY/SIZE | FPM |
| KH 1 | EXHAUST FAN (EF–1) | FRANKE<br>H&K | UH–122 | 1–4 | 1350 | 166 | (5)10x20 | 263 |
| KH 2 | EXHAUST FAN (EF–2) | FRANKE<br>H&K | UH–50 | 1–4 | 575 | 173 | (3)10x16 | 255 |
| KH 3 | EXHAUST FAN (EF–3) | FRANKE<br>H&K | UH–43 | 1–4 | 480 | 166 | (2)10x20 | 255 |
| KH 4 | EXHAUST FAN (EF–6) | FRANKE<br>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

| GENERAL | | | | | | DESIGN | | | | ELECTRICAL | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TAG | MANUFACTURER | MODEL | SERVES | ACCESSORIES | NOTES | CFM | S.P. | BHP | FRPM | VOLTS | Ø | Hz | HP | FLA AMPS |
| EF 1 | ACCUREX | XCUE–14010VG124MCD | KITCHEN HOOD (KH–1) | 1–5,13,14 | 1,2,6 | 1350 | 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 | 480 | 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 | 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 | 9–12 | 1–3,5 | 75 | 0.25 | – | 880 | 115 | 1 | 60 | – | 0.52 |
| 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 | 9,15 | 1–4 | 400 | 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. WITH INTEGRATED NIGHTLIGHT
13. WINDBAND EXTENSION ON FAN OUTLET
14. VARIGREEN 10VDC ELECTRONICALLY COMMUTATED MOTOR
15. SQUARE DUCT CONNECTOR (8"X8").

NOTES:

1. NO SUBSTITUTIONS PERMITTED
2. TO ORDER 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/GAS

| | | | | SUPPLY FAN | | | | | COOLING COIL (DX) | | | | | | HEAT EXCHANGER (GAS) | | | | | | | UNIT POWER CONNECTION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | ENTERING AIR | | LEAVING AIR | | COOLING CAPACITY (MBH) | | | | TOTAL CAPACITY (MBH) | | | | | | | | | | | |
| TAG | AREA SERVED | NOMINAL TONNAGE | MINIMUM OA (CFM) | SUPPLY AIRFLOW (CFM) | EXT. S.P. (IN W.C.) | MHP | BHP | RPM | DB °F | WB °F | DB °F | WB °F | SENSIBLE | TOTAL | ENTERING AIR (DB °F) | LEAVING AIR (DB °F) | INPUT | OUTPUT | # OF STAGES | MINIMUM EFFICIENCY | WEIGHT (LBS.)* | VOLT. | PHASE | MCA | MOCP | MANUFACTURER | MODEL NO. | ACCESSORIES |
| RTU-1 | KITCHEN | 20 | 1,375 | 7,600 | 1.40 | 7.5 | 5.6 | 1,024 | 78.6 | 65.5 | 55.0 | 55.0 | 197.9 | 249.7 | 56.3 | 85 | 260 | 208 | 2 | IEER: 15.4 | 2,961 | 208 | 3 | 98 | 110 | LENNOX | LGT 240 H5M S 1Y | 1, 3, 4, 5,7, 9, 11, 12, 16, 17, 19, 20, 21 |
| RTU-2 | SUPPORT | 6 | 810 | 2,050 | 0.80 | 1.5 | 0.9 | 1,592 | 82.8 | 66.4 | 55.0 | 55.0 | 63.2 | 77.9 | 42.4 | 85 | 150 | 120 | 2 | IEER: 17.3 | 1,055 | 208 | 3 | #N/A | #N/A | LENNOX | LGT 072 H5E H 1Y | 1, 3, 4, 5,7, 8, 9, 11, 12, 13, 19, 20, 21 |
| RTU-3 | DINING ROOM | 15 | 1,445 | 4,800 | 1.0 | 3.0 | 2.2 | 811 | 80.9 | 66.7 | 55.0 | 55.0 | 133.5 | 182.5 | 48.5 | 85 | 260 | 208 | 2 | IEER: 15.4 | 2,751 | 208 | 3 | 64 | 70 | LENNOX | LGT 180 H5M S 1Y | 1, 3, 4, 5, 7, 8, 9, 11, 12, 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 SENS
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

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

*NOTES:*

1. NO SUBSTITUTIONS PERMITTED.
2. TO ORDER LENNOX EQUIPMENT, CALL (800)367-6285 TO ORDER AND FAX COPY OF SCHEDULE TO (800)453-7290. EMAIL: mcdonalds@lennoxind.com.
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.
5. ROOFTOP UNITS PROVIDED WITH R-454B REFRIGERANT.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 02/19/26 | RTUS & WH TO GAS, DECOR REVISION | TP |

MATHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

PREPARED BY:
**CORE STATES GROUP**
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PREPARED FOR:
**McDonald's USA, LLC**

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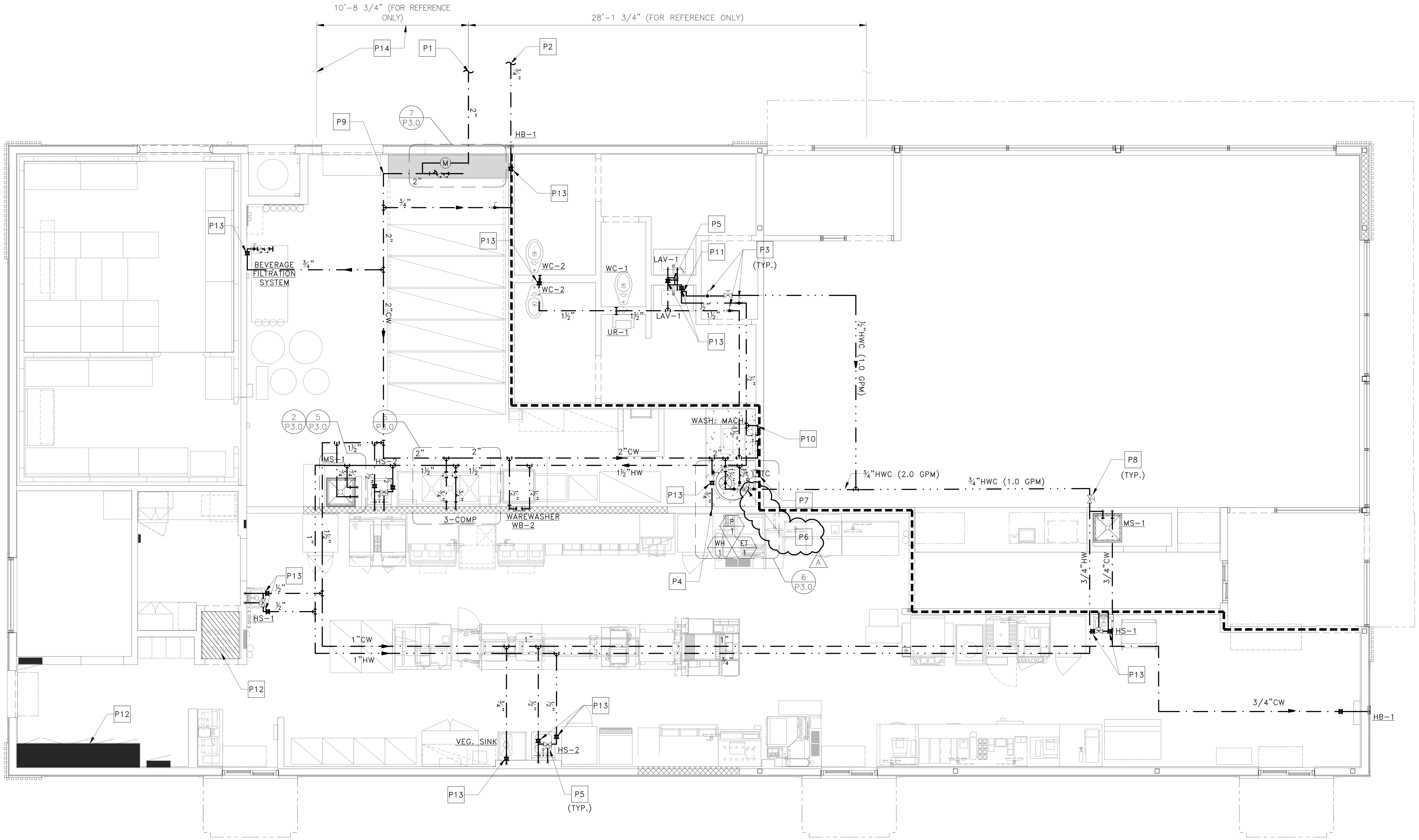
DRAWN BY: TP/ES
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10–16–2025

TITLE:
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION:
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS: 490 AMERICANA BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
M4.1
SCHEDULES



## DOMESTIC WATER PIPING

1 P1.0

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.

P6 AQUASTAT INTEGRAL TO PUMP SHALL SHUT OFF PUMP WHEN RECIRCULATION TEMPERATURE REACHES 140°F. SEE DETAIL 6 ON DRAWING P3.0. A

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.

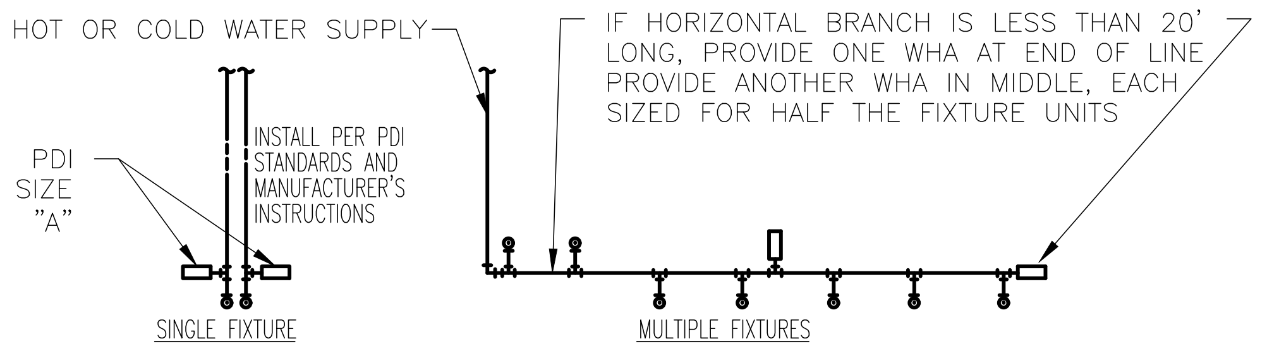
P10 PROPERLY SEAL ALL PIPE PENETRATIONS THROUGH DRAFT STOP WALL (TYP.)

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.


HOT OR COLD WATER SUPPLY
IF HORIZONTAL BRANCH IS LESS THAN 20' LONG, PROVIDE ONE WHA AT END OF LINE PROVIDE ANOTHER WHA IN MIDDLE, EACH SIZED FOR HALF THE FIXTURE UNITS
PDI SIZE "A"
INSTALL PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS
SINGLE FIXTURE
MULTIPLE FIXTURES

| 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 |

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 WSFU | SUPPLY CONNECTIONS COLD | SUPPLY CONNECTIONS 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 | 1" | – | 10 |
| 1 | KITCHEN SINK (3-COMP) | 4 | ¾" | ¾" | 4 |
| 2 | MOP SINK | 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 |

(57 GPM)

| BY | REV | DATE | DESCRIPTION |
|---|---|---|---|
| TP | A | 02/03/26 | CHANGE WH & RTUs TO GAS, DECOR UPDATES |

MATTHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

PREPARED BY:
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PREPARED FOR:
**McDonald's USA, LLC**

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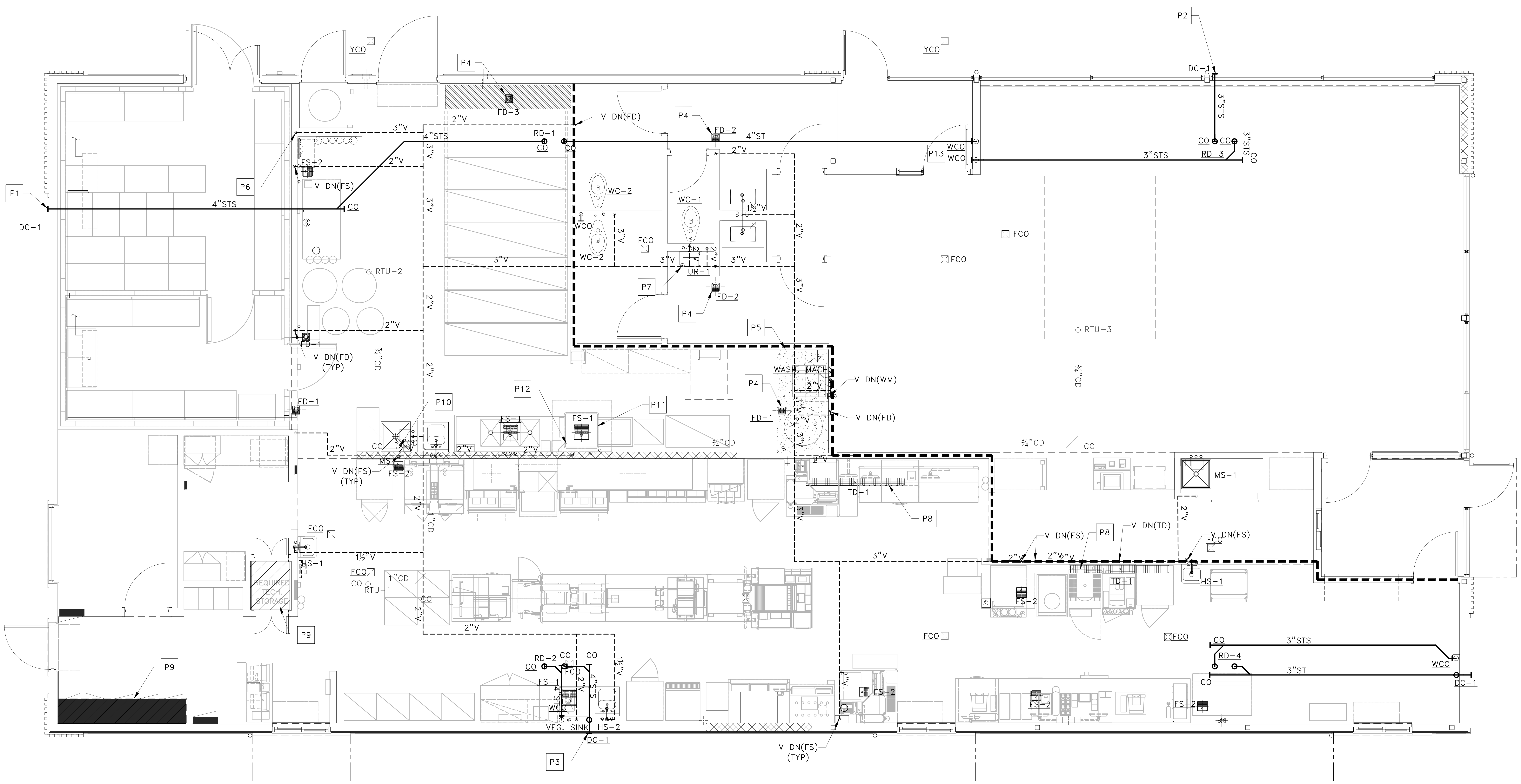
DRAWN BY: ES
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE
2025 STANDARD BUILDING - BB20
4597 - WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
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. |
| 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. |

## STORM PIPE SIZING

RAINFALL = 3.2 IN./HR

VERTICAL LEADERS

| | ROOF AREA | SIZE |
|---|---|---|
| ROOF DRAIN | SQ. FT. | IN. |
| RD-1 | 1,446 | 4 |
| RD-2 | 1,450 | 4 |
| RD-3 | 1,006 | 3 |
| RD-4 | 1,004 | 3 |
| TOTAL | 4,906 | |

HORIZONTAL PIPING (SLOPE ⅛" PER FOOT)

| | ROOF AREA | SIZE |
|---|---|---|
| ROOF DRAIN | SQ. FT. | IN. |
| RD-2 & RD-4 | 2,454 | 6 |
| RD-2, RD-3 & RD-4 | 3,460 | 6 |
| RD-1, RD-2, RD-3 & RD-4 | 4,906 | 6 |

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|

MATHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

PREPARED BY:
CORE STATES GROUP
212 SE 34th Street, Suite 2
Bentonville, AR 72712
479.877.3465
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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY ES
STD ISSUE DATE 2025 05
REVIEWED BY CS
DATE ISSUED 10-16-2025

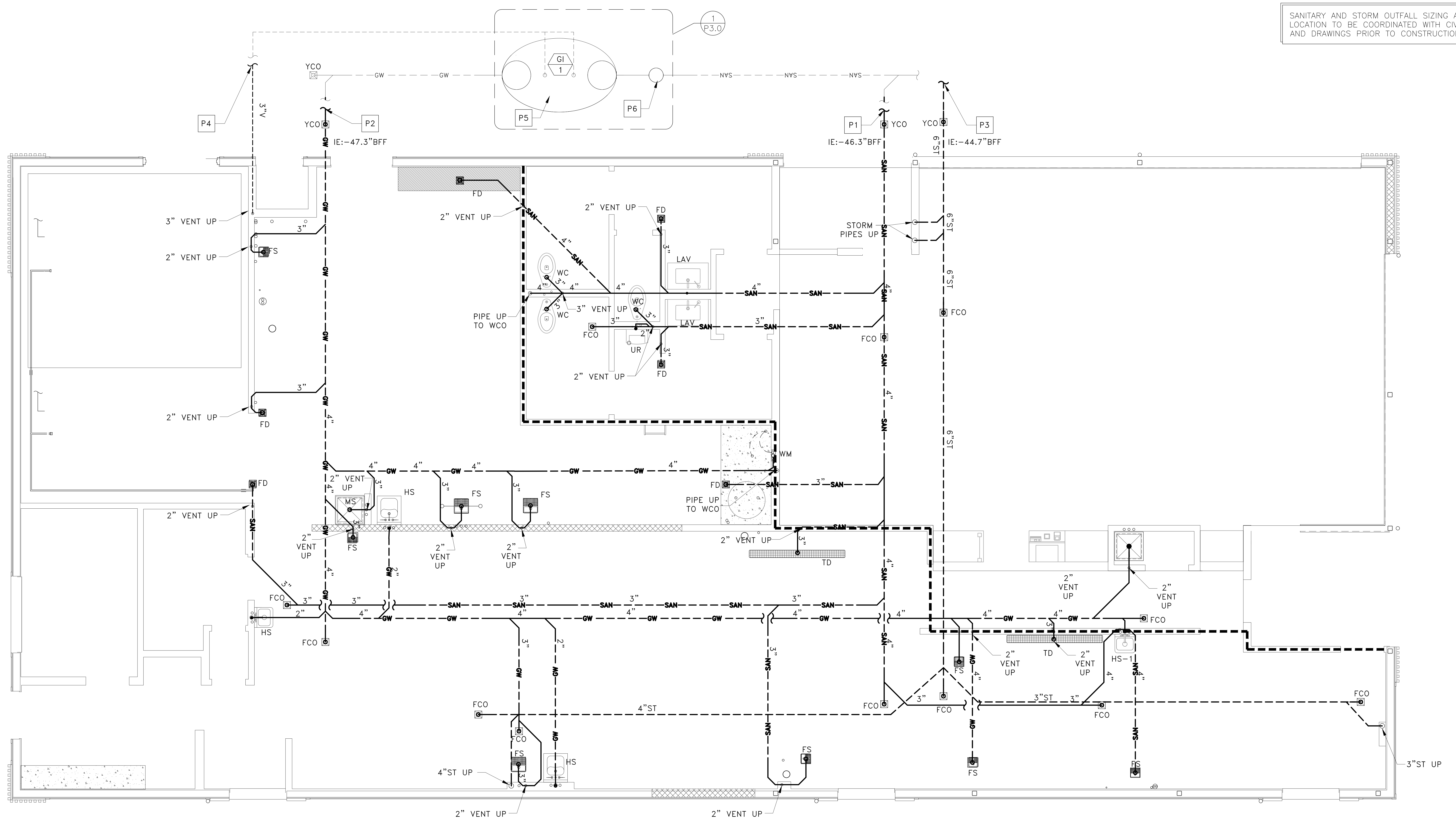
TITLE
2025 STANDARD BUILDING - BB20
4597 - WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
P1.2
VENT & STORM PIPING PLAN

SANITARY AND STORM OUTFALL SIZING AND LOCATION TO BE COORDINATED WITH CIVIL ENGINEER AND DRAWINGS PRIOR TO CONSTRUCTION.



## 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 | NSTALL SAMPLE CHAMBER GREEN TURTLE OR APPROVED ALTERNATIVE. |

## 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 | – | – |
| 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 | 8 | 40 |
| FLOOR DRAIN OR SINK | 4 IN. | 6 | 1 | 6 |
| WASHING MACHINE | 2 IN. | 3 | 1 | 3 |
| WASH SINK (HAND SINK) | 1½ IN. | 2 | 4 | 8 |
| | | | TOTAL | 63 |

## STORM PIPE SIZING

RAINFALL = 3.2 IN./HR

VERTICAL LEADERS

| ROOF DRAIN | ROOF AREA SQ. FT. | SIZE IN. |
|---|---|---|
| RD–1 | 1,446 | 4 |
| RD–2 | 1,450 | 4 |
| RD–3 | 1,006 | 3 |
| RD–4 | 1,004 | 3 |
| | | |
| TOTAL | 4,906 | |

HORIZONTAL PIPING (SLOPE ⅛" PER FOOT)

| ROOF DRAIN | ROOF AREA SQ. FT. | SIZE IN. |
|---|---|---|
| RD–2 & RD–4 | 2,454 | 6 |
| RD–2, RD–3 & RD–4 | 3,460 | 6 |
| RD–1, RD–2, RD–3 & RD–4 | 4,906 | 6 |

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

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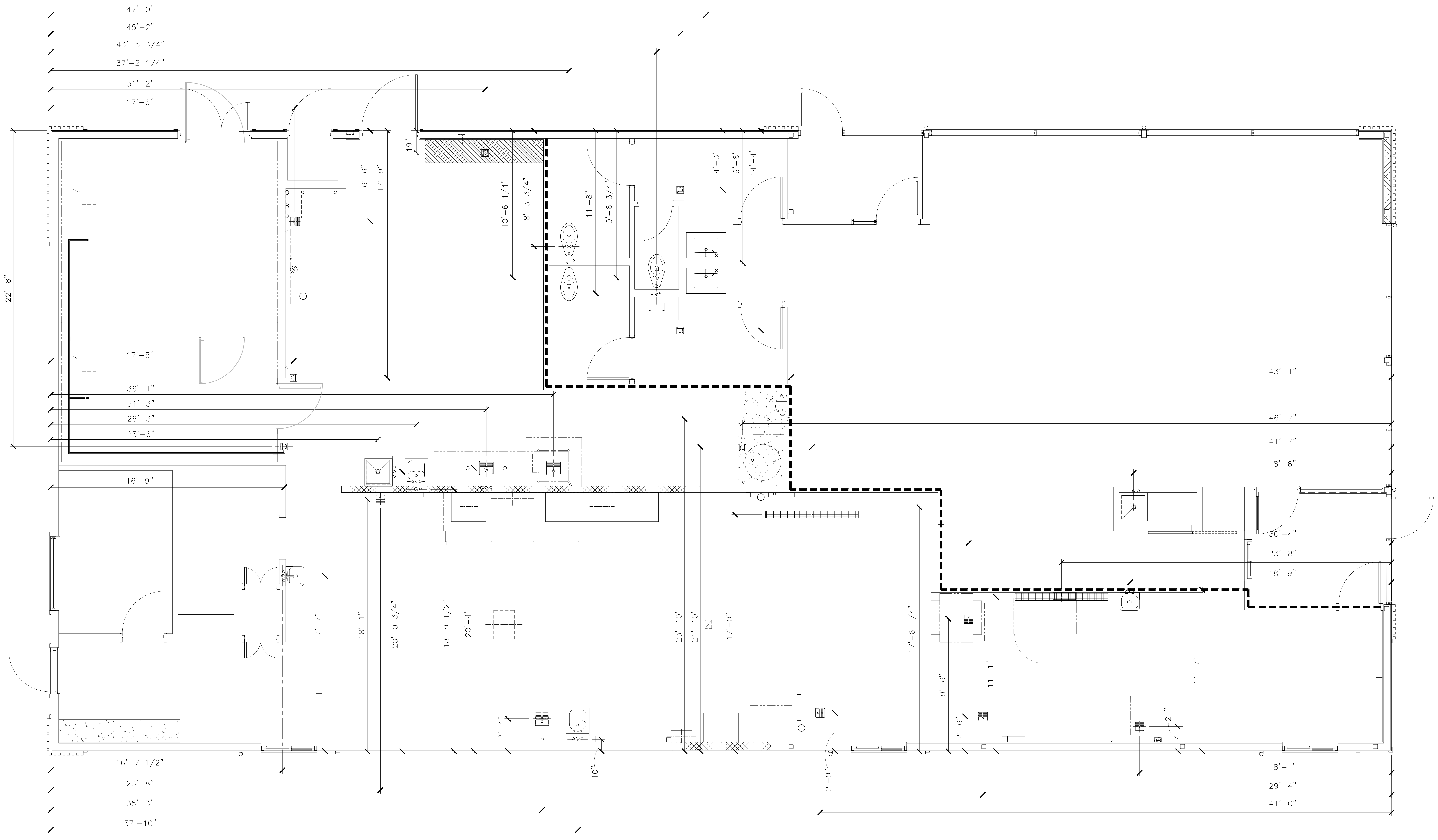
024–0281.00.0
P1.3
UNDERGROUND PLUMBING



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.

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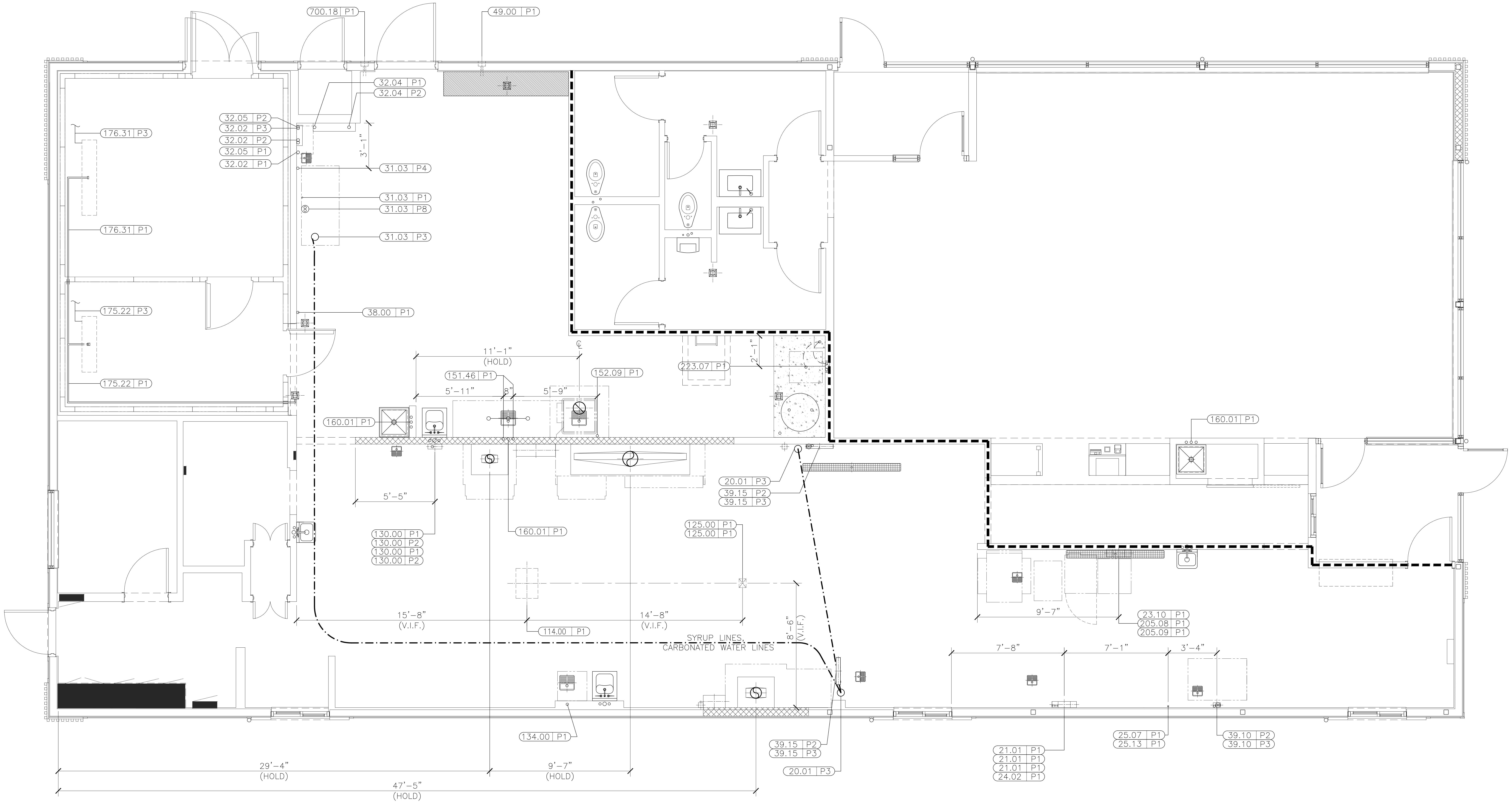

1
P1.6

## 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 – "T" 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 |
| 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 |
| 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 |

VIF = Verify in Field
PC = Plumbing Contractor
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## PLUMBING SCHEDULE

| TAG # | QTY | DESCRIPTION | GAS TYPE | GAS BTU | GAS SIZE | HW | CW | MISC PLBG | HGT AFF | DRAIN | REQUIREMENTS & REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 039.10P3 | 1 | ICE MACHINE – 1400 LB. | – | – | – | – | – | REFRIG LINES | – | – | REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT |
| 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" | – | SEE RMKS | 2" INDIRECT | PC TO PROVIDE HW, CW, INDIRECT DRAIN PIPING, DRAIN @ 9" AFF. FOR ECOLAB FROM WB–2, SPLIT CW: $\frac{1}{2}$" CW TO DTV, $\frac{3}{8}$" CW TO VAPOR VENT. |
| 160.01P1 | 3 | CHEMICAL SYSTEM | – | – | – | 3/4" 110 | – | – | SEE RMKS | – | PC TO PROVIDE 3/4" MHT. FINAL CONNECTIONS BY EQUIPMENT INSTALLER PER LOCAL CODE, SEE SHEET P3.0 FOR INSTALLATION HEIGHT |
| 175.19P1 | 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 |
| 175.19P3 | 1 | COOLER EVAPORATOR | – | – | – | – | – | REFRIG LINES | – | – | RUN TO REMOTE CONDENSING UNIT–INSULATE FULL RUN LENGTH –INSTALLED BY REFRIG. CONTRACTOR |
| 176.28P1 | 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. |
| 176.28P3 | 1 | FREEZER EVAPORATOR | – | – | – | – | – | REFRIG LINES | – | – | RUN TO REMOTE CONDENSING UNIT–INSULATE FULL RUN LENGTH–INSTALLED BY REFRIG. CONTRACTOR |
| 205.08P1 | 1 | BIC 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. |

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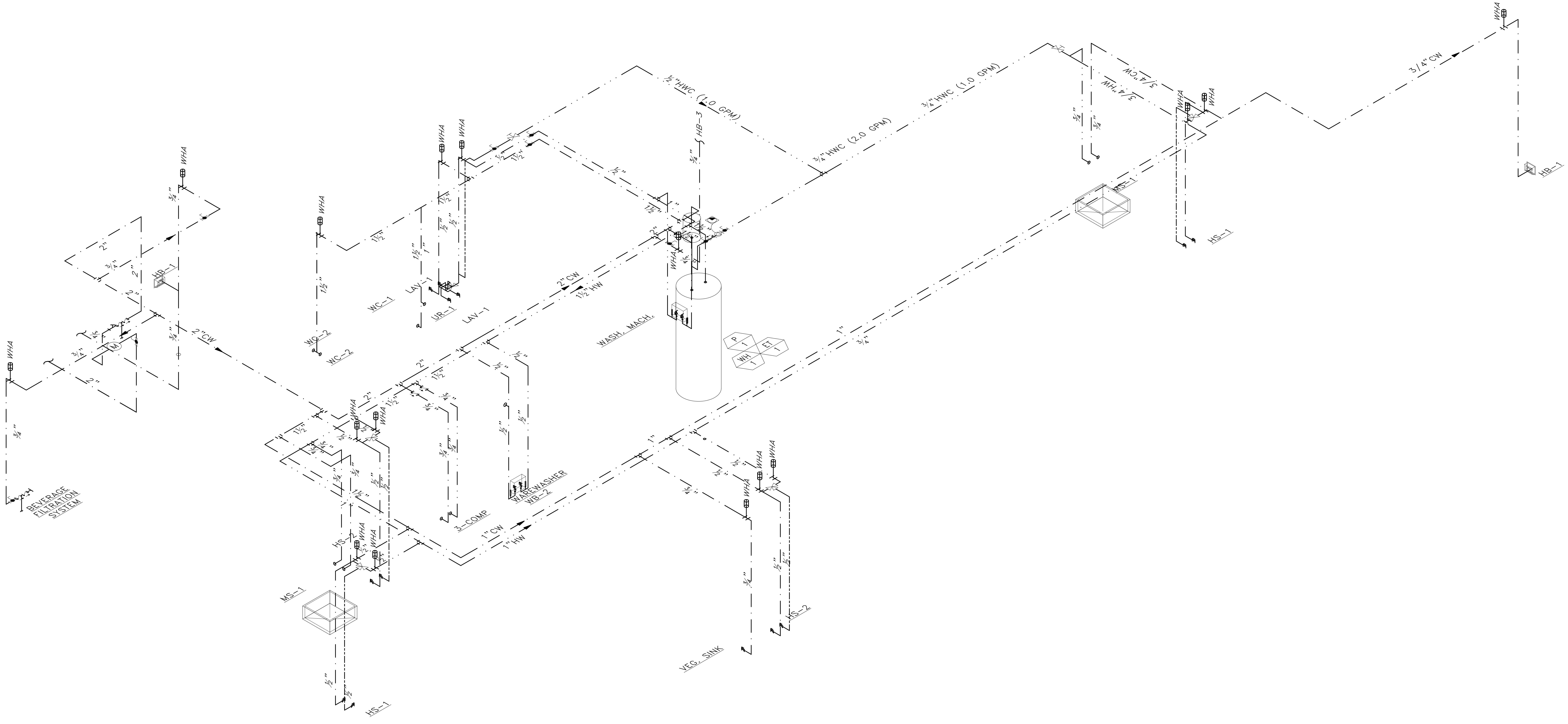

## DOMESTIC WATER PIPING ISOMETRIC

1
P2.0
SCALE: NONE

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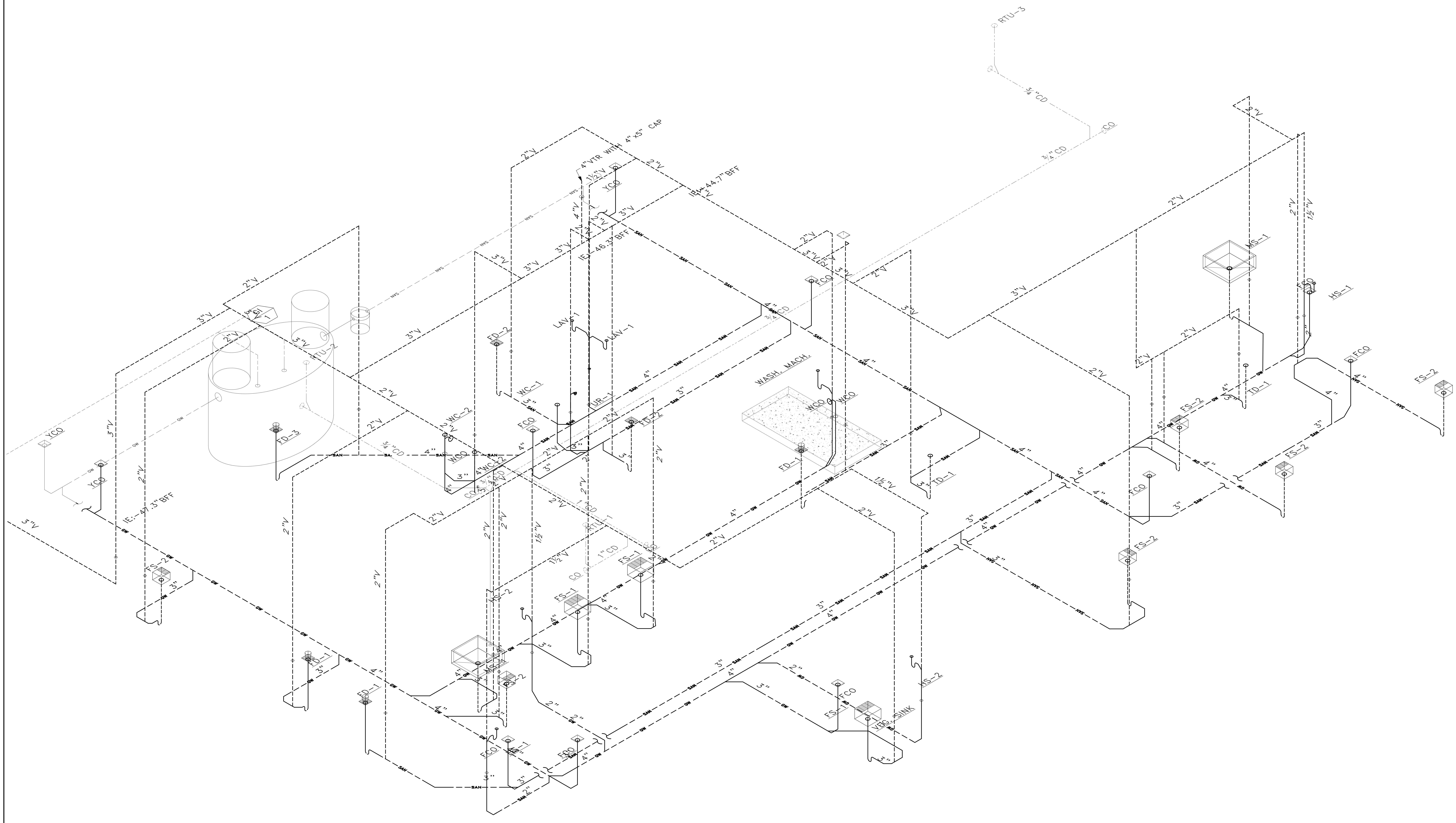

1 P2.1 WASTE & VENT PIPING ISOMETRIC

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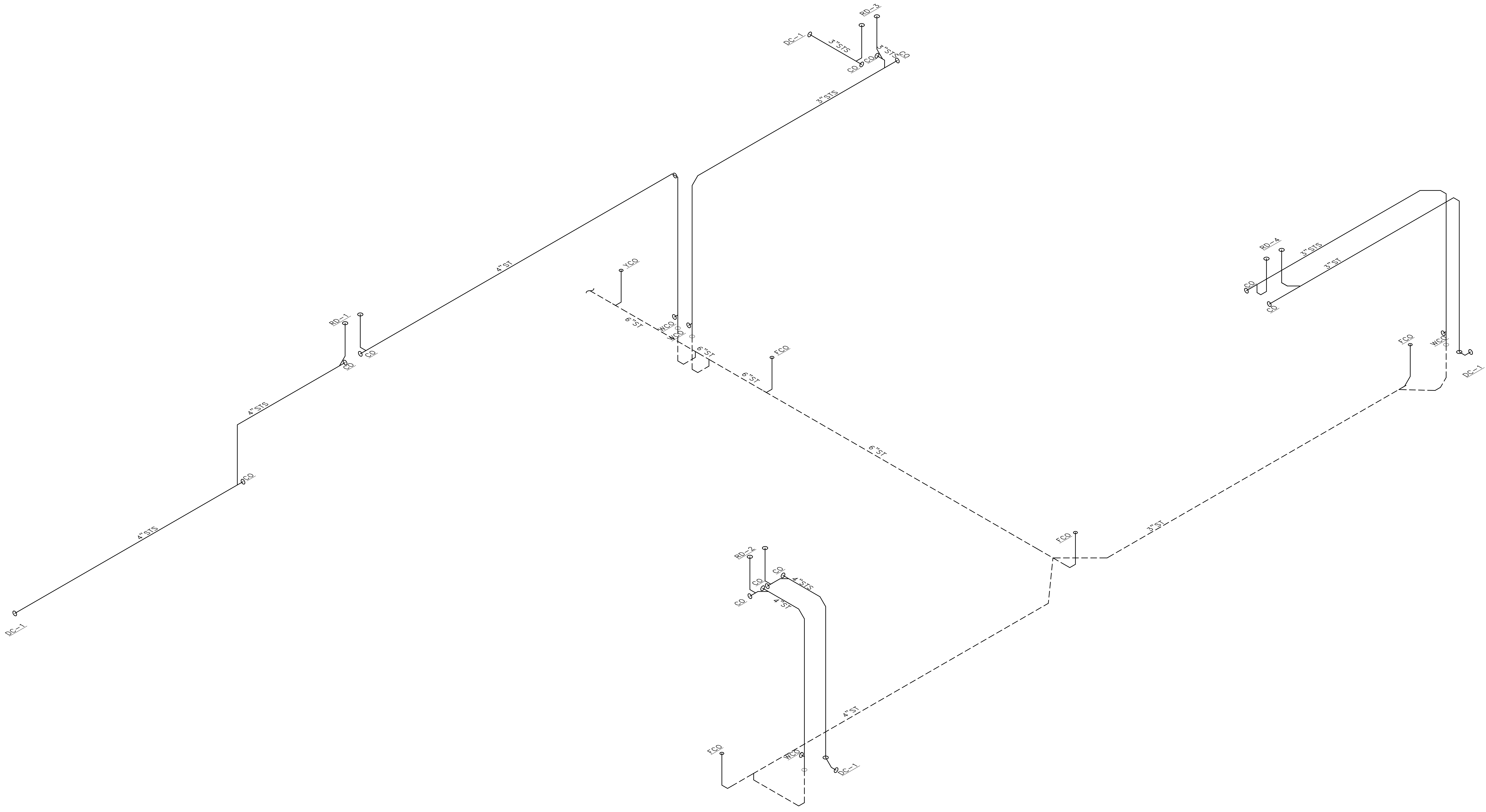

1
P2.2

## STORM PIPING ISOMETRIC

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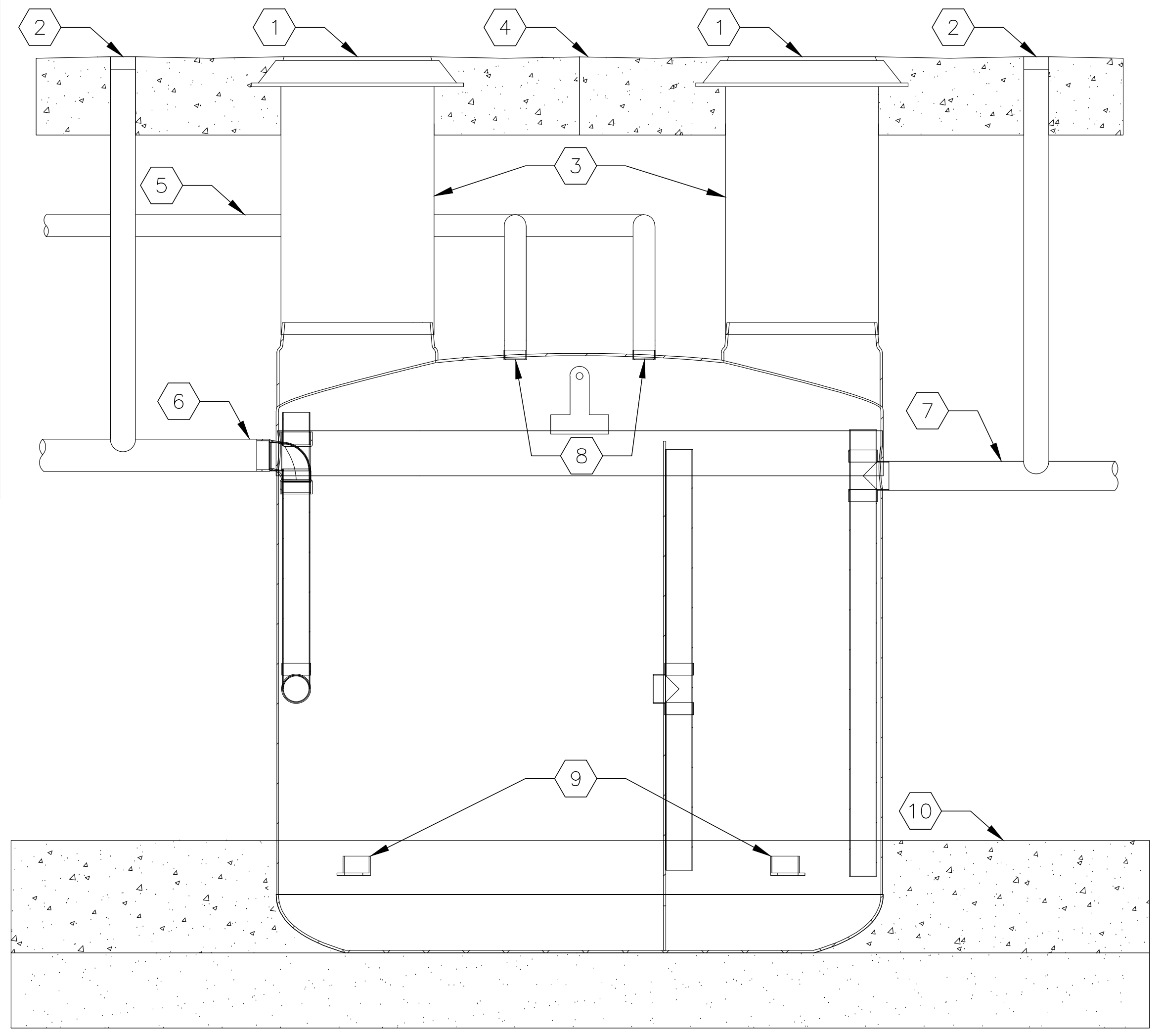
024-0281.00.0
P2.2
STORM ISOMETRIC

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. 4"ø INLET
7. 4"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.



ELEVATION VIEW

DETAIL 1 / P3.0
GREASE INTERCEPTOR INSTALLATION
SCALE: NONE

**Grease Trap Sizing Formula (EPA-2 Model)**

A. Determine maximum drainage flow from fixtures:

| Type of fixture | Flow rate per unit | | Quantity |
|---|---|---|---|
| Triple sink, 2 in. drain | 35 | gpm | 1 |
| Washing machine | 10 | gpm | 1 |
| Warewasher | 25 | gpm | 1 |
| Hand sink | 15 | gpm | 4 |
| Mop sink | 20 | gpm | 2 |
| Vegetable Sink, 3 in drain | 20 | gpm | 1 |
| *Total* | *128* | *gpm* | *10* |

B. Total - Divided by number of fixtures

| | |
|---|---|
| *Total* | *12.8 gpm* |

C. Loading factor

| | |
|---|---|
| Fast food - paper delivery | 0.5 |

D. B x C = Sub-total

| | |
|---|---|
| *Sub-total* | *6.4 gpm* |

E. D x 60 min. = Max. flow for one-hour

| | |
|---|---|
| *Max. Flow* | *384 gpm* |

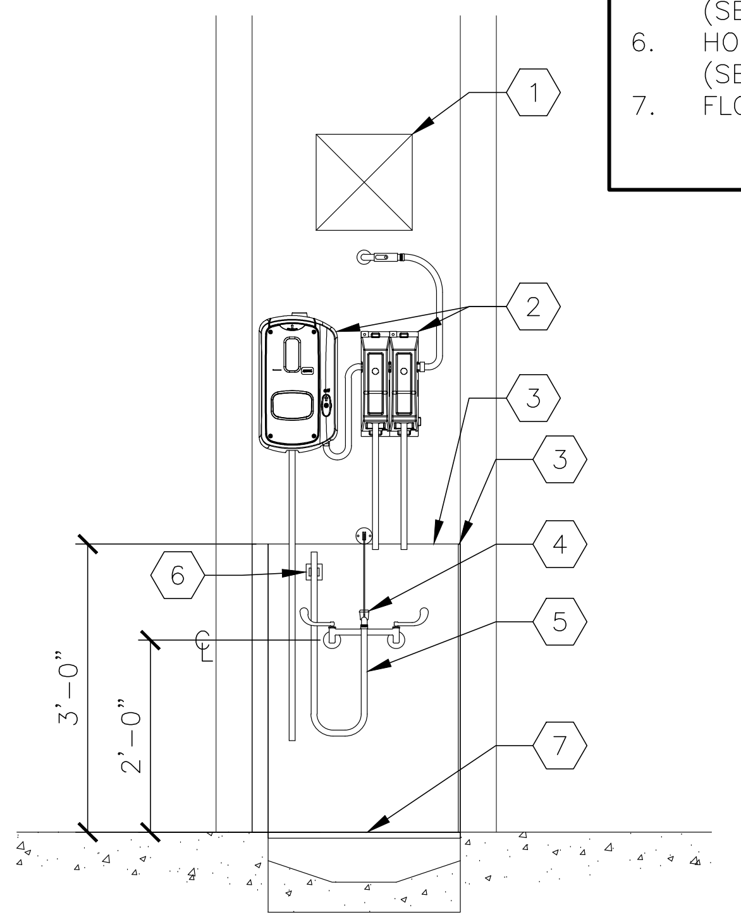
F. E x 2 hour retention time = Volume of Trap in gallons

| | |
|---|---|
| *Volume of Trap* | *768 gallons* |

| Minimum Grease Trap Size |
|---|
| 1300 gallons |

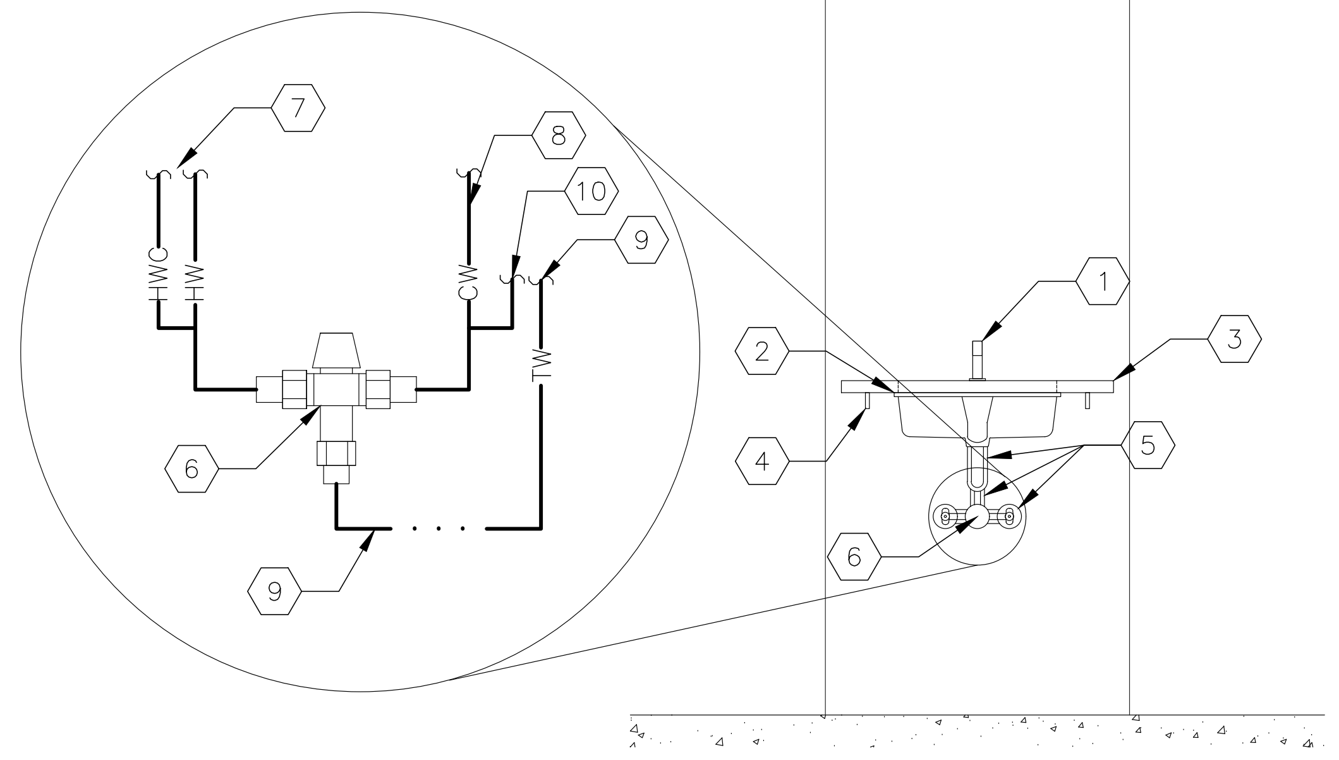
GRAVITY GREASE INTERCEPTOR SIZING (EPA-2 MODEL)

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

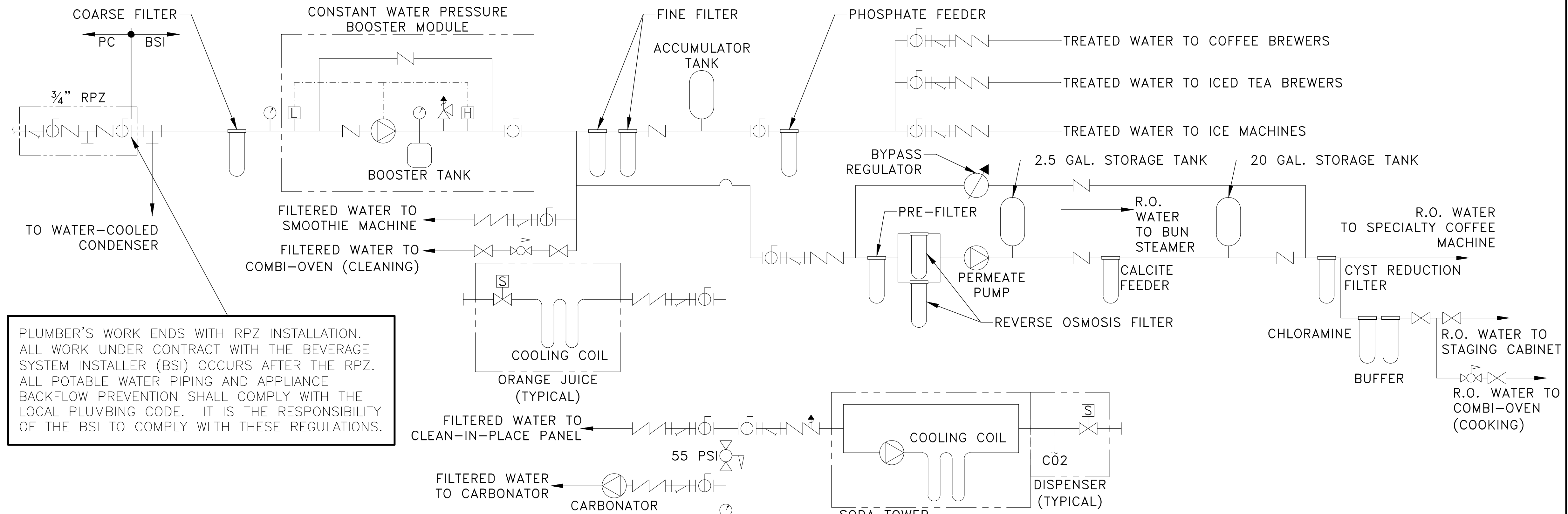


DETAIL 2 / P3.0
RECESSED MOP SINK
SCALE: ½"=1'-0"

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.



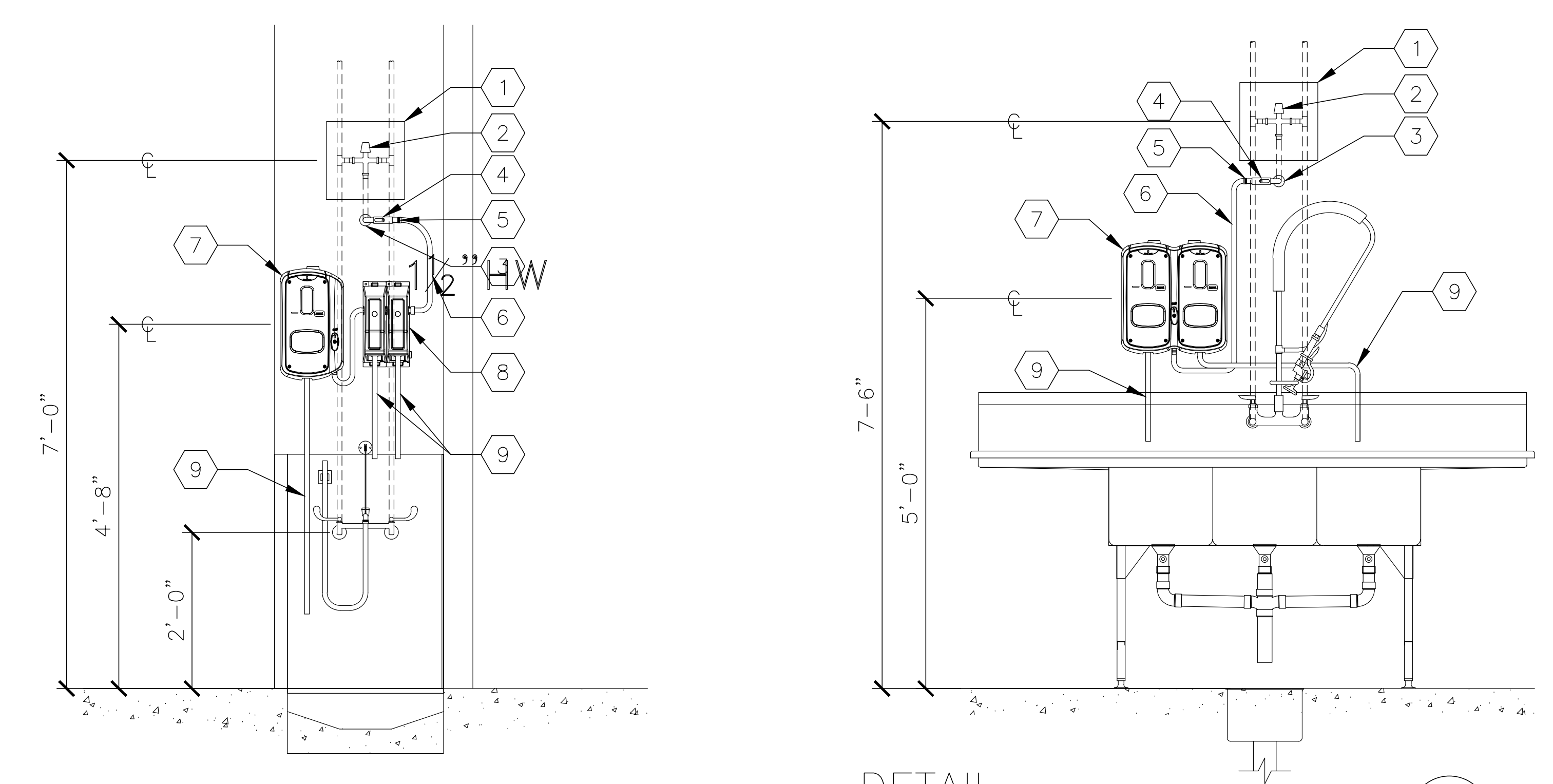
DETAIL 3 / P3.0
LAVATORY (PUBLIC)
SCALE: ½"=1'-0"



COARSE FILTER
PC
BSI
¾" RPZ
TO WATER-COOLED CONDENSER
CONSTANT WATER PRESSURE BOOSTER MODULE
L
H
BOOSTER TANK
FINE FILTER
ACCUMULATOR TANK
PHOSPHATE FEEDER
TREATED WATER TO COFFEE BREWERS
TREATED WATER TO ICED TEA BREWERS
TREATED WATER TO ICE MACHINES
BYPASS REGULATOR
2.5 GAL. STORAGE TANK
20 GAL. STORAGE TANK
PRE-FILTER
R.O. WATER TO BUN STEAMER
R.O. WATER TO SPECIALTY COFFEE MACHINE
FILTERED WATER TO SMOOTHIE MACHINE
FILTERED WATER TO COMBI-OVEN (CLEANING)
PERMEATE PUMP
CALCITE FEEDER
CYST REDUCTION FILTER
S
COOLING COIL
ORANGE JUICE (TYPICAL)
REVERSE OSMOSIS FILTER
CHLORAMINE
BUFFER
R.O. WATER TO STAGING CABINET
R.O. WATER TO COMBI-OVEN (COOKING)
FILTERED WATER TO CLEAN-IN-PLACE PANEL
55 PSI
COOLING COIL
S
C02
DISPENSER (TYPICAL)
SODA TOWER (TYPICAL)
FILTERED WATER TO CARBONATOR
CARBONATOR PUMP

PLUMBER'S WORK ENDS WITH RPZ INSTALLATION. ALL WORK UNDER CONTRACT WITH THE BEVERAGE SYSTEM INSTALLER (BSI) OCCURS AFTER THE RPZ. ALL POTABLE WATER PIPING AND APPLIANCE BACKFLOW PREVENTION SHALL COMPLY WITH THE LOCAL PLUMBING CODE. IT IS THE RESPONSIBILITY OF THE BSI TO COMPLY WIITH THESE REGULATIONS.

DETAIL 4 / P3.0
BEVERAGE SYSTEM DISTRIBUTION SCHEMATIC
SCALE: NONE

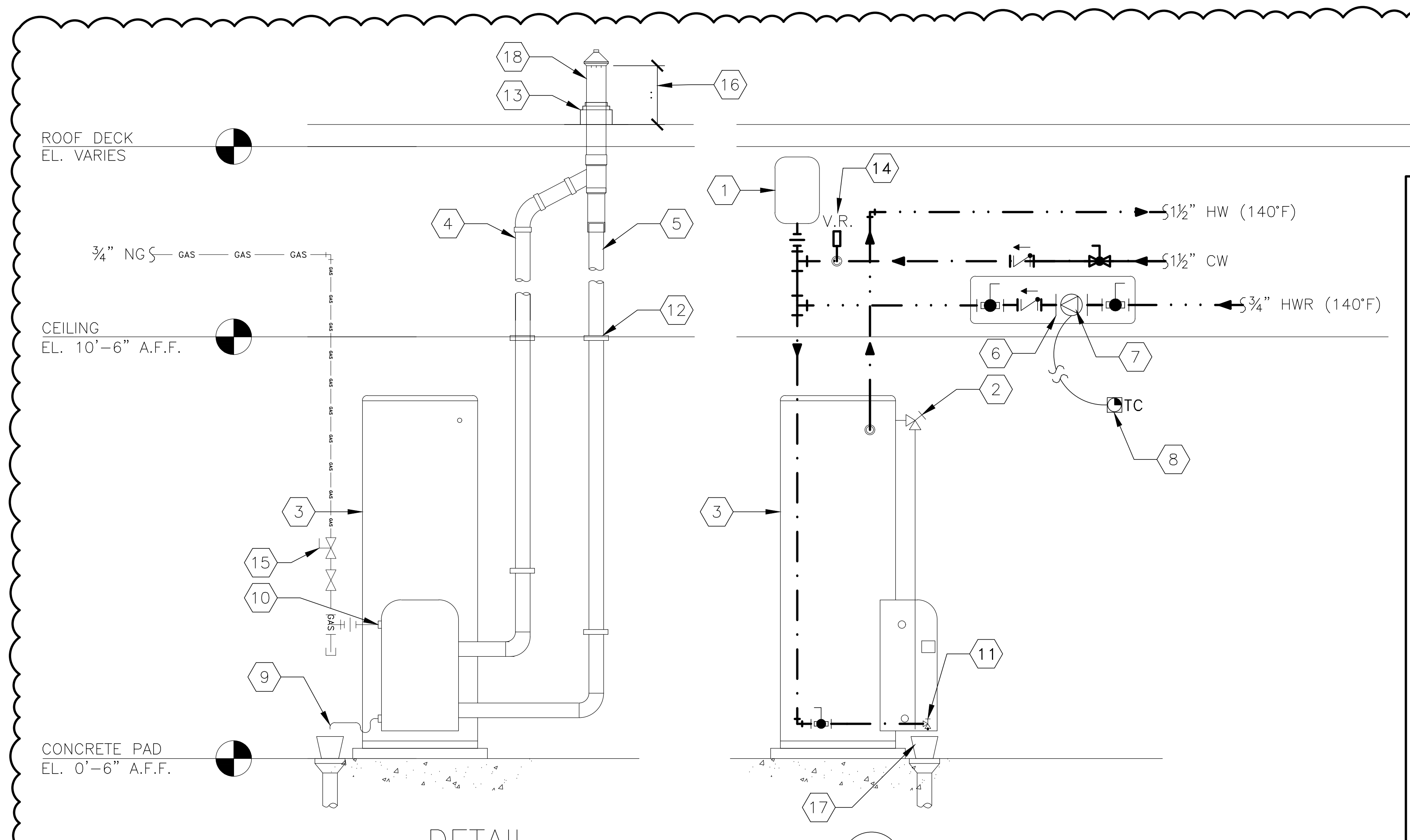


KEYED NOTES:
1. 12"x12" ACCESS PANEL (COORDINATE INSTALLATION WITH G.C.)
2. THERMOSTATIC MIXING VALVE SET TO 110°F (SEE VALVE SCHEDULE)
3. PIPE THROUGH WALL WITH ESCUTCHEON PLATE
4. SHUT-OFF VALVE
5. ¾" MHT CONNECTION

***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

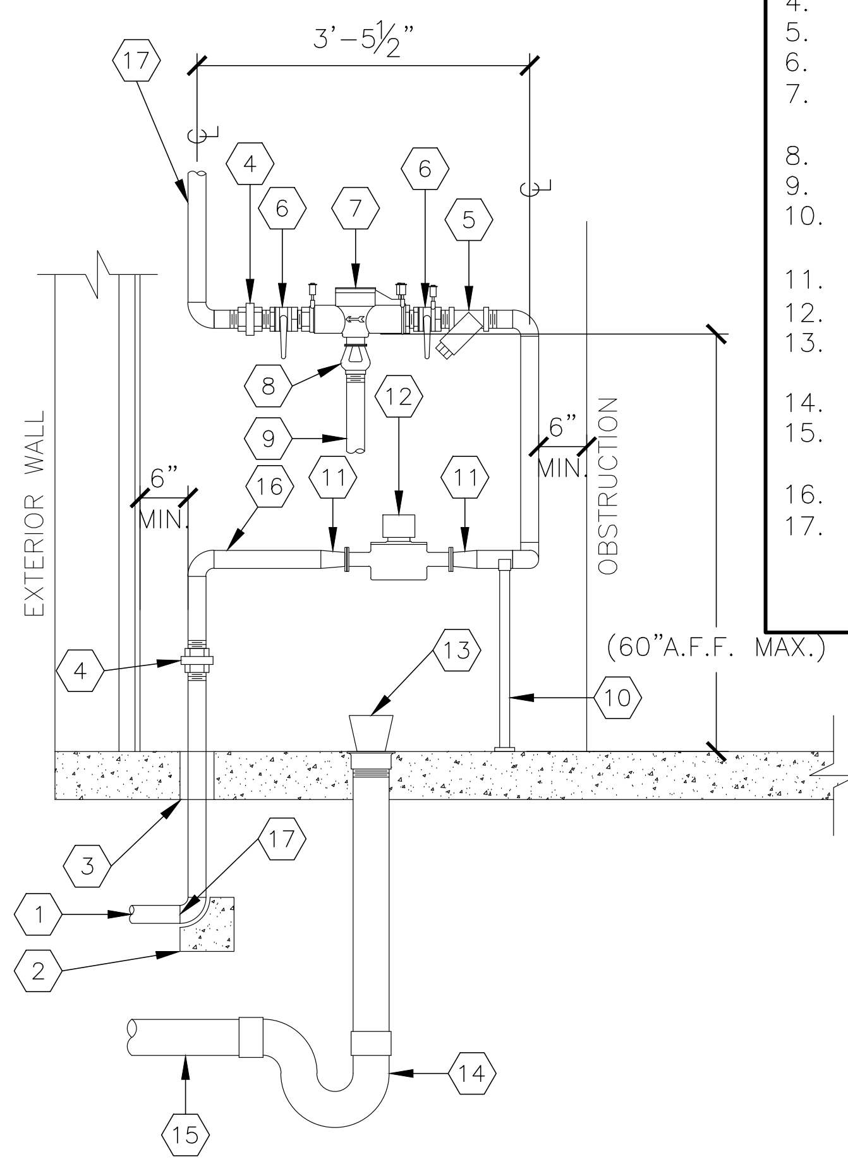
DETAIL 5 / P3.0
CHEMICAL SYSTEM INSTALLATION
SCALE: ½"=1'-0"



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. 3" PVC INTAKE. (SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS)
5. 3" ABS MIN. 84" REQ'D. (SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS).
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. GAS CONNECTION
11. WATER HEATER DRAIN (EXTEND TO FLOOR DRAIN)
12. PIPE SUPPORT EVERY 5 FT. MINIMUM
13. PIPE BOOT BY PORTALS PLUS (OR EQUAL)
14. PROVIDE VACUUM RELIEF VALVE FOR BOTTOM-FED WATER HEATERS (ANSI Z21.22) WILKINS MODEL VR10.
15. GAS PRESSURE REGULATOR (AS APPLICABLE).
16. CONCENTRIC VENT KIT. MAINTAIN 12" MIN. CLEARANCE ABOVE HIGHEST ANTICIPATED SNOW LEVEL. MAXIMUM OF 24" ABOVE ROOF.
17. FLOOR DRAIN WITH FUNNEL OR FLOOR SINK. REFER TO P1.2 FOR PLAN AND P4.1 FOR SCHEDULE.
18. 4.5" COMBINED CONCENTRIC VENT. (SIZE PER MANUFACTURER'S INSTALLATIONS INSTRUCTIONS).

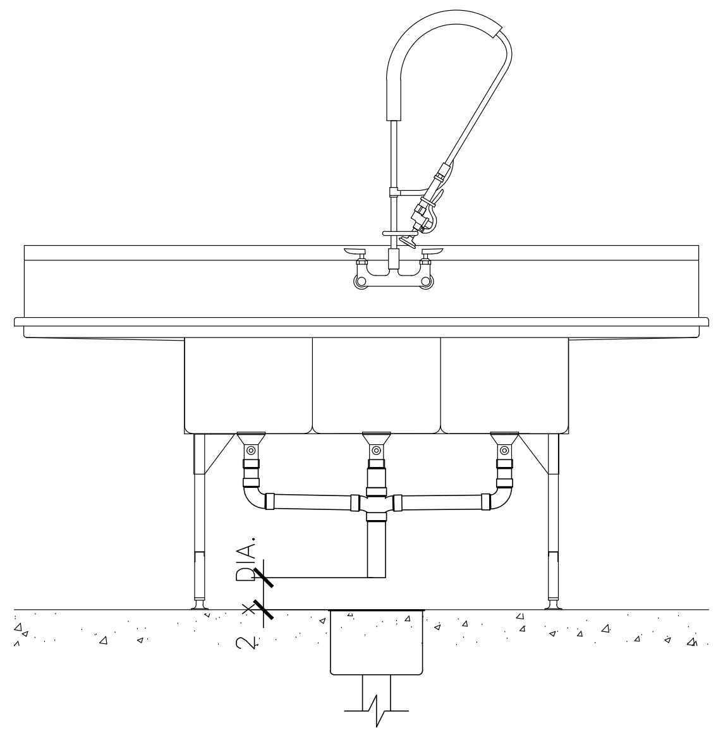
A

DETAIL 6 / P3.0
WATER HEATER PIPING
SCALE: NONE

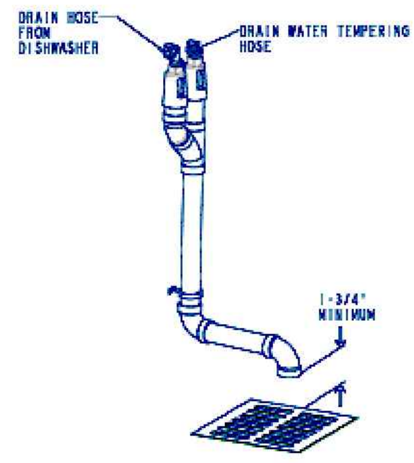


KEYED NOTES:
1. INCOMING UNDERGROUND WATER SERVICE SIZED PER DOMESTIC WATER CALCULATIONS. (MIN. 2")
2. BLOCKING AT CHANGES IN DIRECTION
3. MINIMUM ½" ANNULAR CLEARANCE
4. UNION
5. BRONZE STRAINER
6. QUARTER-TURN BALL VALVE
7. REDUCED PRESSURE ZONE (RPZ) ASSEMBLY
8. AIR GAP FOR RELIEF VALVE
9. PIPING 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 / P3.0
INCOMING WATER SERVICE
SCALE: ½"=1'-0"



DETAIL 8 / P3.0
INDIRECT DRAINAGE PIPING (TYP.)
SCALE: ½"=1'-0"



DETAIL 9 / P3.0
WAREWASHER DRAIN AIR GAP KIT
SCALE: NTS

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 02/03/26 | CHANGE WH & RTUs TO GAS, DECOR UPDATES | TP |

MATTHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

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PREPARED FOR:
**McDonald's USA, LLC**

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DRAWN BY: ES
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE: 2025 STANDARD BUILDING – BB20 4597 – WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & CI WOOD TRUSS ROOF FRAMING E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH
NSN: 8043
L/C: 024-0281
SITE ADDRESS: 490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
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.

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 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. 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
4. IF PEX PIPING IS USED, ALL MAINS SHALL BE UPSIZED BY 0.5" DIAMETER.
5. 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.
6. 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.
7. PROVIDE A MINIMUM ½" ANNULAR CLEARANCE AROUND ALL PIPE SLAB PENETRATIONS.
8. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INCOMING SERVICE WHERE REQUIRED BY CODE. (MIN. 60" A.F.F.)
9. AN EXPANSION TANK SHALL BE INSTALLED ON THE COLD WATER LINE INLET TO THE WATER HEATER. SEE EXPANSION TANK SCHEDULE.
10. 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.
11. CPVC PIPE SHALL BE FLOWGUARD GOLD OR FLOWGUARD BENDABLE AS MANUFACTURED BY LUBRIZOL.
12. CPVC PIPE SHALL BE CONNECTED WITH FLOWGUARD GOLD YELLOW LOW-VOC SOLVENT CEMENT AS MANUFACTURED BY IPS WELD-ON OR OATEY.
13. ALL CPVC PIPE SHALL BE INSULATED TO PREVENT EXPOSURE TO GREASE.
14. 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" | 3 FT. | 10 FT. |
| PEX ≥1¼" | 4 FT. | 10 FT. |

15. 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).
16. 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.
17. ALL WATER SUPPLY LINES SHALL BE PROVIDED WITH A QUARTER-TURN SHUT-OFF VALVE BEFORE FINAL CONNECTION TO EQUIPMENT.
18. QUARTER-TURN SHUT-OFF VALVES SHALL BE INSTALLED UPSTREAM OF ANY INLINE BACKFLOW PREVENTION DEVICE.
19. ALL VALVES AND BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WITH FITTINGS THAT FACILITATE REMOVAL IN CASE OF FAILURE.
20. ALL OVERHEAD WATER LINES SHALL BE INSULATED PER SCHEDULE THIS SHEET WITH EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7.
21. 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 CHAPER 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.

A

## 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 |
| L | 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<br>STS | STORM SEWER (PRIMARY)<br>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 |
|---|---|---|---|
| A | 02/03/26 | CHANGE WH & RTUs TO GAS, DECOR UPDATES | TP |

MATTHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

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DRAWN BY: ES
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
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.
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. ALL WATER HEATERS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY SEALED–COMBUSTION WATER HEATERS. THE INSTALLATION OF STANDARD EFFICIENCY GRAVITY–VENTED WATER HEATERS IS PROHIBITED.
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. ALL GAS PIPING FOR COOKING EQUIPMENT SHALL TERMINATE IN THE CEILING PRIOR TO THE INSTALLATION OF THE PIPING CHASE. UPON INSTALLATION OF THE CHASE, THE GAS PIPING SHALL THEN BE CONTINUED IN THE CHASE FOR FINAL CONNECTION TO THE APPLIANCE.
14. ALL GAS PIPING FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE PLUMBING CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.
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. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
21. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
22. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
23. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
24. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
25. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
26. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
27. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.
28. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.

# 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

# 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

# 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 MBH | RECOV. 100°F ΔT GPH | ELECTRICAL VOLTS | ELECTRICAL Ø | ELECTRICAL Hz | ELECTRICAL F.L.A. |
|---|---|---|---|---|---|---|---|---|---|---|
| WH–1 | BRADFORD–WHITE | EF–100T–199E–3N | 100 | GAS | 199 | 239 | 120 | 1 | 60 | <20 |
| | RHEEM | GHE100SU/SS–200(A) | 100 | | | 227 | | | | |

ACCESSORIES:
1. CONCENTRIC VENT KIT.

NOTES:
1. MINIMUM THERMAL EFFICIENCY 97%

# VALVE SCHEDULE

| MANUFACTURER | MODEL | TEMP. SETTING | LISTING | SERVES |
|---|---|---|---|---|
| WATTS | LFMMV | 110°F | ASSE 1017,1069,1070 | CHEMICAL SYSTEM MIXING |
| WATTS | LFMMV | 104°F | ASSE 1017,1069,1070 | LAVS & HAND SINKS MIXING |
| ZURN | ZW3870XLT | 104°F | | |
| 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 GMC1300–UPC | 4" INLET, 4" 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. NOT USED
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<br>ZURN | SF–2150<br>ZG6950XL–F–10S | 0.5 GPM (0.08 GAL/10 SEC CYCLE) | FAUCET OPERATION: SENSOR | |
| F–2 | FAUCET FOR MS–1 | ZURN | Z843M4 | | FAUCET OPERATION: MANUAL<br>SEE DETAIL 2 ON DRAWING P3.0 | 5' VINYL HOSE<br>WALL HOOK |
| FCO | 6x6 FLOOR CLEAN OUT | ZURN<br>JAY R. SMITH | Z1400–SZ<br>4040 | | SEE DRAWINGS FOR PIPE SIZES<br>SEE NOTE 8 | |
| FD–1 | 6x6 FLOOR DRAIN WITH FUNNEL | ZURN<br>JAY R. SMITH | Z415–SZ1<br>3510–F25 | | PIPE SIZE: 3"<br>STRAINER SIZE: 6" NICKEL BRONZE | FUNNEL: ZURN Z329<br>SEE NOTE 8 |
| FD–2 | 6x6 FLOOR DRAIN | ZURN<br>JAY R. SMITH | Z415–SZ1<br>2005 | | PIPE SIZE: 3"<br>STRAINER SIZE: 6" NICKEL BRONZE | FUNNEL: NONE<br>SEE NOTE 8 |
| FD–3 | 6x6 FLOOR DRAIN WITH FUNNEL | ZURN<br>JAY R. SMITH | Z415–SZ1<br>3510–F25 | | PIPE SIZE: 4"<br>STRAINER SIZE: 6" NICKEL BRONZE | FUNNEL: ZURN Z329<br>SEE NOTE 8 |
| FD–4 | 6x6 FLOOR DRAIN | ZURN<br>JAY R. SMITH | Z415–SZ1<br>2005 | | PIPE SIZE: 4"<br>STRAINER SIZE: 6" NICKEL BRONZE | FUNNEL: NONE<br>SEE NOTE 8 |
| FS–1 | 12x12 FLOOR SINK WITH HALF–GRATE | ZURN<br>JAY R. SMITH | ZN1901<br>3435 | | PIPE SIZE: 3"<br>DOME STRAINER: ALUMINUM | GRATE: HALF – NICKEL–BRONZE<br>SEE NOTE 8 |
| FS–2 | 8x8 FLOOR SINK WITH HALF–GRATE | ZURN<br>JAY R. SMITH | ZN1910<br>3415 | | PIPE SIZE: 3"<br>DOME STRAINER: ALUMINUM | GRATE: HALF – NICKEL–BRONZE<br>SEE NOTE 8 |
| FS–3 | 8x8 FLOOR SINK | ZURN<br>JAY R. SMITH | ZN1910<br>3415 | | PIPE SIZE: 3"<br>DOME STRAINER: ALUMINUM | GRATE: FULL – NICKEL–BRONZE<br>SEE NOTE 8 |
| HB–1 | WALL HYDRANT | WOODFORD<br>ZURN<br>JAY R. SMITH | B65<br>Z1320–EZ<br>5519 | | WALL CLAMP: ADJUSTABLE<br>VERIFY WALL THICKNESS | SEE NOTE 3 |
| HB–2 | YARD HYDRANT | WOODFORD | S4H | | SEE NOTES 4 & 9 | |
| HB–3 | ROOF HYDRANT | WOODFORD | SRH–MS | | (NO DRAIN REQUIRED) | |
| HS–1 | STAINLESS STEEL HAND SINK | ADVANCE TABCO | 7–PS–61 | 1 GPM | FAUCET: INCLUDED WITH SINK | SEE NOTES 6 & 10 |
| HS–2 | STAINLESS STEEL HAND SINK – ADA | ADVANCE TABCO | 7–PS–26 | 1 GPM | FAUCET: INCLUDED WITH SINK | SEE NOTES 6 & 10 |
| LAV–1 | LAVATORY | KOHLER<br>SLOAN | K–2882–0<br>SS3021 | | FAUCET: F–1<br>TRUEBRO LAVGUARD2 MODEL #102–E–Z<br>CORIAN COUNTER BY G.C. | SEE NOTE 10<br>SEE DETAIL 3 ON P3.0<br>SEE NOTE 11 |
| MS–1 | MOP SINK | FIELD FABRICATED<br><br>ADVANCE TABCO | RECESSED – FLOOR<br>(24x24x12)<br>9–OP–24FM–SS | | FAUCET: F–2<br>INCLUDES HOSE, HOSE BRACKET AND TWO (2) 24"Wx36"H WALL GUARDS<br>SEE DETAIL 2 ON P3.0 | |
| TD–1 | TRENCH DRAIN | ZURN | Z886–DGC | | CLASS C –DUCTILE IRON SLOTTED GRATE. NO–HUB BOTTOM OUTLET. BOTTOM DOME STRAINER. CLOSED END CAP | |
| UR–1 | ADA WALL–HUNG URINAL | SLOAN<br>ZURN<br>– | SU–1009<br>ZK5755.380.00<br>– | 0.125 GPF | FLUSH VALVE: SLOAN SOLIS 8186<br>ZURN ZTR6203–ULF–LL<br>¾" I.P.S., 1" TOP SPUD | FLUSH VALVE OPERATION: SENSOR<br>SEE NOTE 2 |
| WB–1 | WALL BOX FOR WASHING MACHINE | SIOUX CHIEF | 696–2313 | | HAMMER ARRESTERS INCLUDED WITH BOX<br>MOUNTING HEIGHT: 12" A.F.F. | SEE NOTE 7 |
| WB–2 | WALL BOX FOR WAREWASHER | SIOUX CHIEF | 696–241MF | | MOUNTING HEIGHT: 12" A.F.F. | SEE NOTE 7. ORDER WITH TWO (2) ¾"FHT AND ½"MIP ADAPTERS. |
| WC–1 | WATER CLOSET | SLOAN<br>ZURN<br>– | ST–2009<br>ZK5655.381.00.03.00<br>– | 1.28 GPF | FLUSH VALVE: SLOAN SOLIS 8111<br>ZURN ZTR6200EV–LL<br>1" I.P.S., 1½" TOP SPUD | FLUSH VALVE OPERATION: SENSOR<br>SEAT: BEMIS MODEL 2155CT |
| WC–2 | ADA WATER CLOSET | SLOAN<br>ZURN<br>– | ST–2029 ADA<br>ZK5655.4MC.00.03.00<br>– | 1.28 GPF | FLUSH VALVE: SLOAN SOLIS 8111<br>ZURN ZTR6200EV–CC–LL<br>1" I.P.S., 1½" TOP SPUD | FLUSH VALVE OPERATION: SENSOR<br>SEAT: BEMIS MODEL 2155CT |
| – | SOILED DISHTABLE (3–COMPARTMENT SINK) | – | – | | ITEM: 151.46 | SEE NOTE 7 |
| – | VEGETABLE PREPARATION SINK | – | – | | ITEM: 134.00 | SEE NOTE 7 |
| – | WAREWASHER | ECOLAB | XL–HTHH–VV | | ITEM: 152.09<br>WALL BOX: WB–2 | SEE NOTE 7. TIE ½"HW INTO ECOLAB. SPLIT CW: ½" TO DTV, ⅜" TO VAPOR VENT. |
| – | WASHING MACHINE | – | – | | ITEM: 223.07<br>WALL BOX: WB–1 | SEE NOTE 7 |
| WCO | WALL CLEAN OUT | ZURN<br>JAY R. SMITH | Z1446<br>9776T | | SEE DRAWINGS FOR PIPE SIZES | INCLUDE VANDAL–PROOF SCREW IN PUBLIC AREAS |
| WHA | WATER–HAMMER ARRESTER | SIOUX CHIEF | SERIES 650 | | – | SEE SHEET P1.2 |
| **ROOF DRAINS AND ACCESSORIES** | | | | | | |
| DC–1 | OVERFLOW DOWNSPOUT COVER | ZURN<br>JAY R. SMITH | Z199–SS<br>1770–BS | | SEE DRAWINGS FOR PIPE SIZES<br>BIRD SCREEN | SEE NOTE 8 |
| RD–1 THRU RD–4 | COMBINATION MAIN ROOF AND OVERFLOW DRAIN | ZURN | Z165 | | SEE DRAWINGS FOR PIPE SIZES<br>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 ⅛" 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.

TO ORDER PLUMBING FIXTURES, CONTACT HUGHES SUPPLY:
E–MAIL:
MCDCOORD@HUGHESSUPPLY.COM
OR MCDCOORD@HAJOCA.COM

| | | | | | | |
|---|---|---|---|---|---|---|
| WCO | Wall Clean Out | ZURN<br>JAY R. SMITH | Z1446<br>9776T | | SEE DRAWINGS FOR PIPE SIZES | INCLUDE VANDAL-PROOF SCREWS IN PUBLIC AREAS |

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 02/03/26 | CHANGE WH & RTUs TO GAS, DECOR UPDATES | TP |

MATTHEW BRYAN LEWIS
NUMBER PE-2017029404
02/23/2026

PREPARED BY:
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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: ES
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10–16–2025

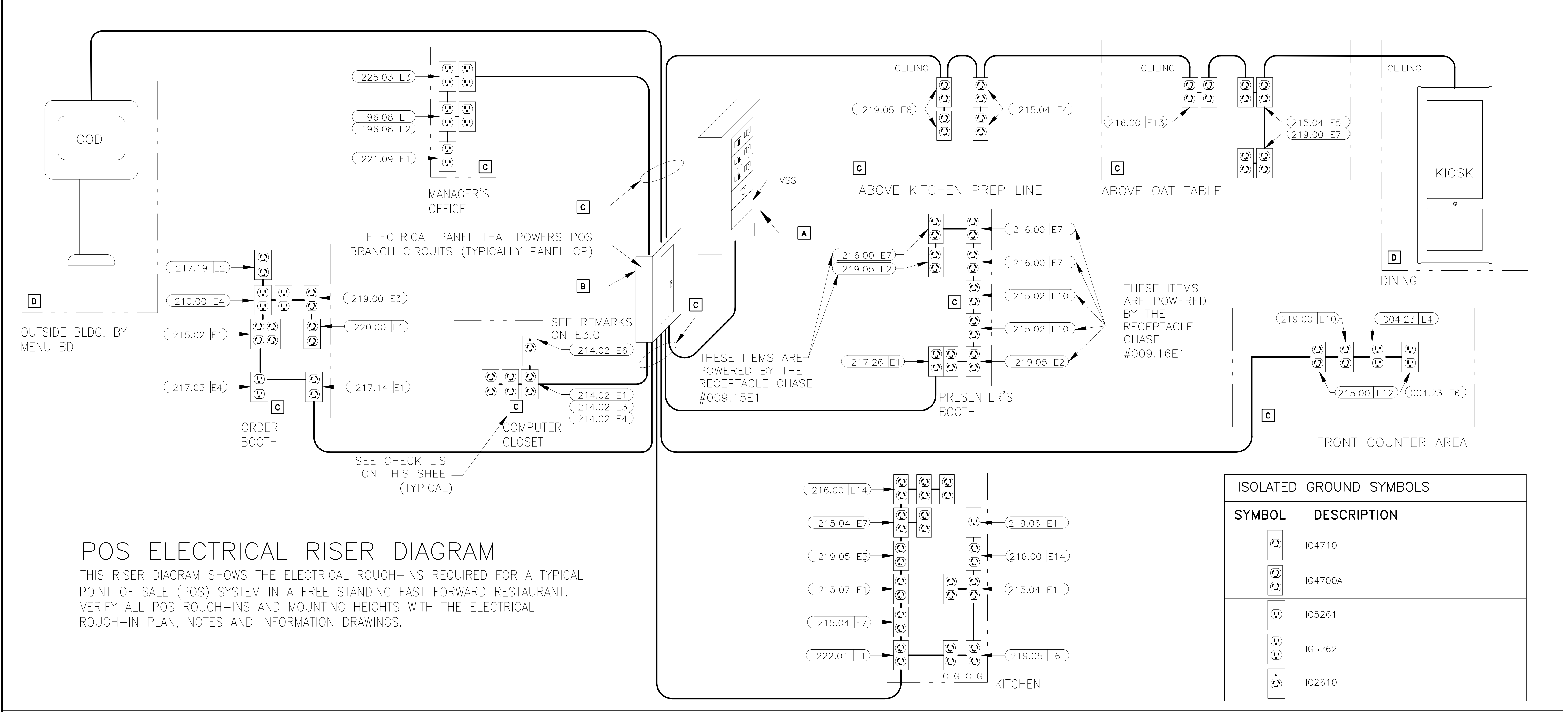
TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
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 |
|---|---|
| ⊙ | IG4710 |
| ⊙ | 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

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

2/20/26

PREPARED BY:
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Bentonville, AR 72712
479.877.3465
www.core-states.com

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: DA
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

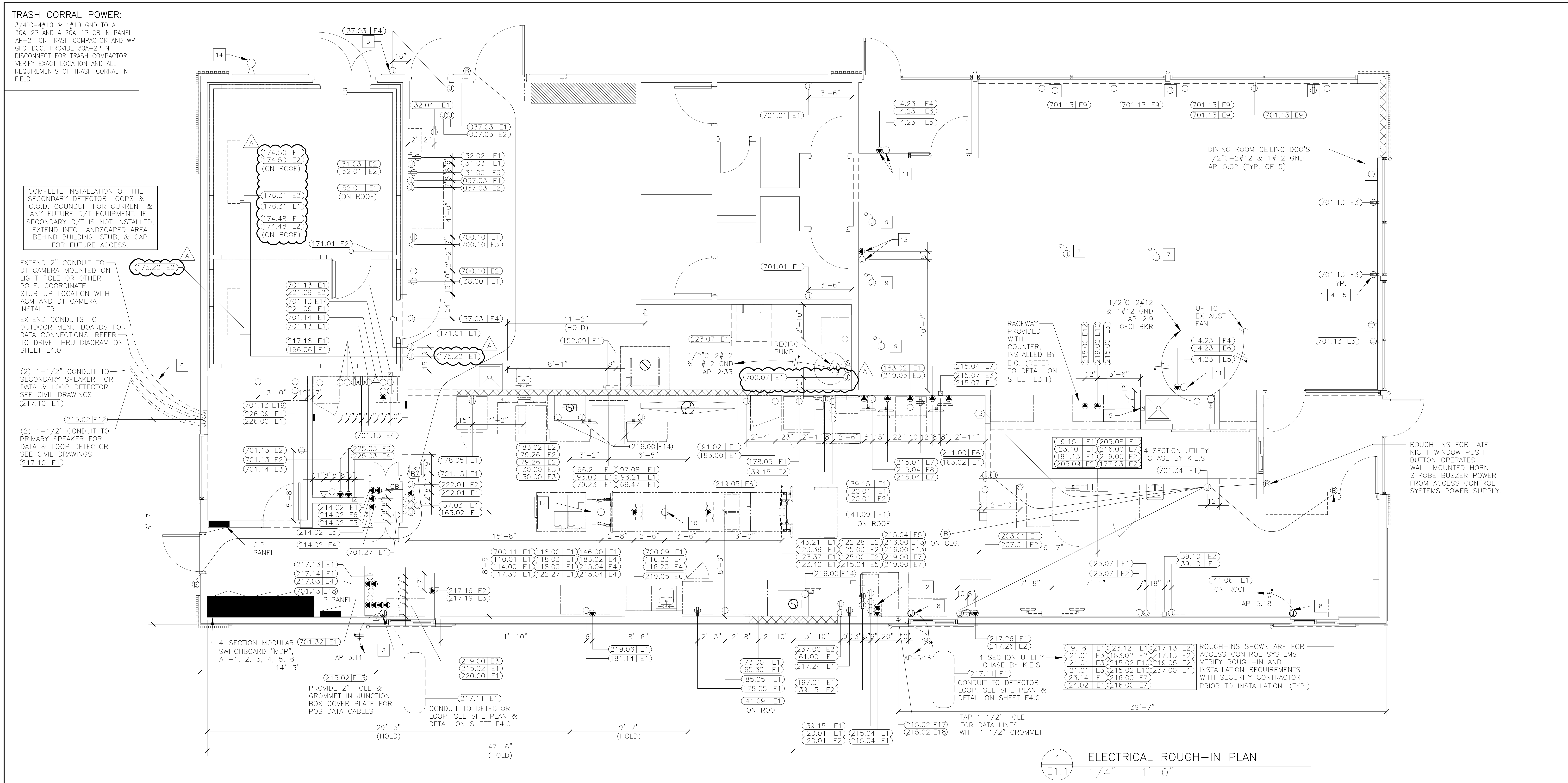
TITLE: 2025 STANDARD BUILDING - BB20
4597 - WOOD/WOOD

DESCRIPTION:
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281

SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
E1.0
POS RISER DIAGRAM



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 |
| T | 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<br>= 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 |
| ‖X | 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 ½"D JUNCTION BOX AT DOOR FOR INSTALLATION OF DOOR ALARM UNIT. STUB 1/2"C ABOVE CEILING FROM JUNCTION BOX. PROVIDE ½"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 ½"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 ¾" 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 AT&T TO PROVIDE #8 GRD CONDUCTOR FROM BUILDING EXTERIOR WIRELESS ACCESS POINT TO ABOVE INTERIOR CEILING. EC TO EXEND CONDUCTOR TO BUILDING GROUNDING SYSTEM. COORDINATE EXACT LOCATION OF ACCESS POINT IN FIELD WITH AT&T.

15 CONTRACTOR TO PUNCH HOLES IN SERVICE POD FOR CABLE AND CONDUIT ROUTING. UTILIZE BUSHINGS PROVIDE WITH SERVICE POD TO PROTECT CABLES.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 2/3/26 | CHANGING WATER HEATER AND RTUS TO GAS, DECOR UPDATES | DA |

2/20/26

PREPARED BY:
**CORE STATES GROUP**
212 SE 34th. Street, Suite 2
Bentonville, AR 72712
479.877.3465
www.core-states.com

PREPARED FOR:
**McDonald's USA, LLC**

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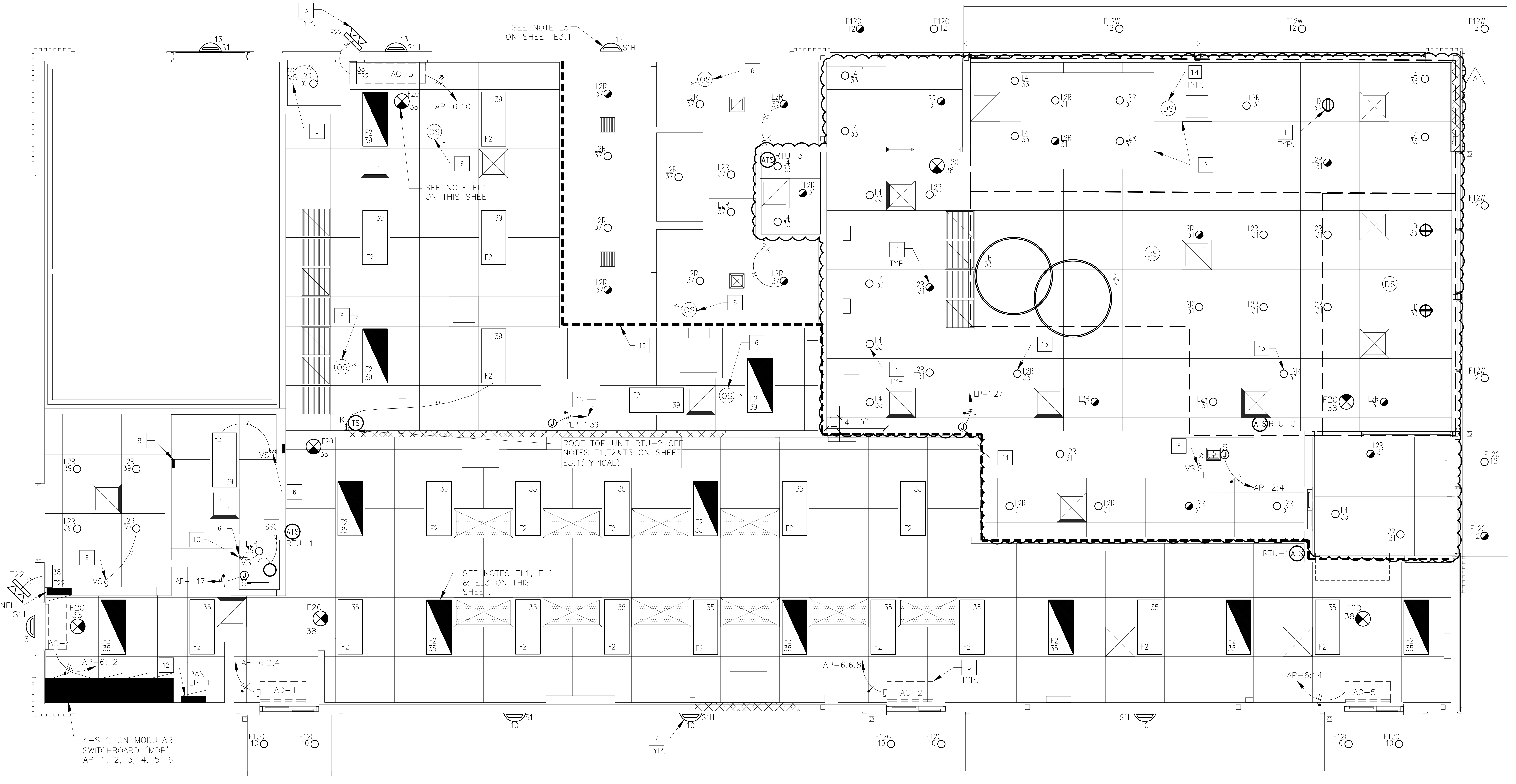
DRAWN BY: DA
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE
2025 STANDARD BUILDING - BB20
4597 - WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

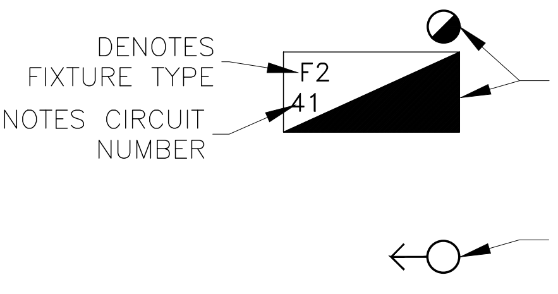
NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
E1.1
ROUGH-IN PLAN


SEE NOTE L5 ON SHEET E3.1
SEE NOTE EL1 ON THIS SHEET
ROOF TOP UNIT RTU-2 SEE NOTES T1,T2&T3 ON SHEET E3.1(TYPICAL)
SEE NOTES EL1, EL2 & EL3 ON THIS SHEET
4-SECTION MODULAR SWITCHBOARD "MDP", AP-1, 2, 3, 4, 5, 6
PANEL CP
PANEL LP-1
RTU-1
RTU-3
AC-1
AC-2
AC-3
AC-4
AC-5
AP-6:10
AP-6:12
AP-6:2,4
AP-1:17
AP-6:6,8
AP-6:14
AP-2:4
LP-1:39
LP-1:27
TYP.
S1H
F12G
F12W
F20
F22
L2R
L4
F2
4'-0"

1
E2.0
LIGHTING FLOOR PLAN
1/4"=1'-0"

KEY



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.

SEE SHEET E3.1 FOR GENERAL LIGHTING NOTES AND "ROOF PLAN" (SHEET E2.1) FOR ADDITIONAL ELECTRICAL ROUGH-IN & LIGHTING 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.

## 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 & FI2G 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.

A

## 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,<br>EMERGENCY FIXTURE # CBT24-A-LSCS-EDD-ELL14-HIGH |
| F7 | ▭ | 1' X 4' GRID TROFFER | PRISMATIC ACRYLIC | 38W | LED | – | RECESSED | SECURITY LIGHTING # CBT14-A-LSCS-EDD-HIGH |
| L2R | ○ | 4" LED ADJUSTABLE DOWN LIGHT | – | 16W | LED | – | RECESSED | SECURITY LIGHTING # RDA-136LM-30-FL-S/RDA-136-H<br>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<br>VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC |
| F12G | ○ | 6" LED DOWN LIGHT – GOLD TRIM | – | 12.5W | LED | – | RECESSED | SECURITY LIGHTING # 8542-5CCT |
| B | ○○ | RING PENDANT | – | 55W EA | LED | – | SUSPENDED | SECURITY LIGHTING # MPLN-63R-400-LM-30-DGCDS |
| D | ⦶ | ORBIT PENDANT | – | 17W | LED | – | SUSPENDED | SECURITY LIGHTING # MPLN-11R-120-LM-30-DGCDG |
| 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 SCONCE – 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 GSSS. ALL OTHER INTERIOR LIGHTING INCLUDING EMERGENCY AND EXIT FURNISHED BY GC

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 2/3/26 | CHANGING WATER HEATER AND RTUS TO GAS, DECOR UPDATES | DA |

STATE OF MISSOURI
JOHN DALE
PROFESSIONAL ENGINEER
2/20/26

PREPARED BY:
CORE STATES GROUP
212 SE 34th. Street, Suite 2
Bentonville, AR 72712
479.877.3465
www.core-states.com

PREPARED FOR:
McDonald's USA, LLC
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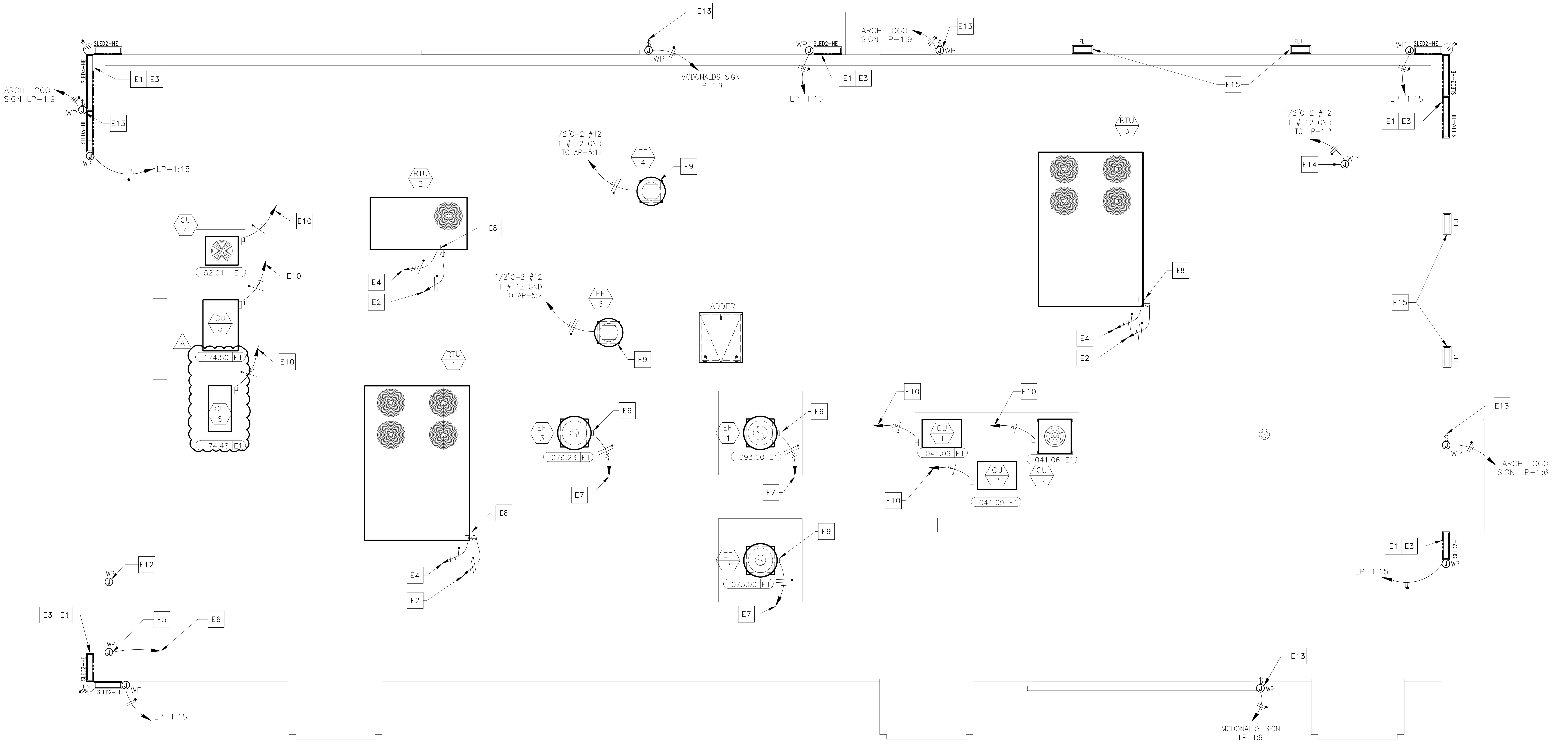
DRAWN BY
DA
STD ISSUE DATE
2025 05
REVIEWED BY
CS
DATE ISSUED
10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
E2.0
LIGHTING PLAN



# 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 | NOT USED. |
| 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) |

## 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: RFL2-44L-25-5K7-W-UNV-K-IO-JWIO |

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 2/3/26 | CHANGING WATER HEATER AND RTUS TO GAS, DECOR UPDATES | DA |

2/20/26

PREPARED BY:
CORE STATES GROUP
212 SE 34th. Street, Suite 2
Bentonville, AR 72712
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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY
DA
STD ISSUE DATE
2025 05
REVIEWED BY
CS
DATE ISSUED
10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
E2.1
ELEC. ROOF PLAN

# ELECTRICAL SCHEDULE

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor
VIF = Verify in Field

| 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–5:(20,22) | 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"<br>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"<br>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<br>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 |
| 079.23E1 | 1 | UNIVERSAL EXHAUST HOOD FULL–CLAM/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" | – |
| 093.00E1 | 1 | UNIVERSAL EXHAUST HOOD FULL–CLAM GRILL | 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 3–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 | 120/1 | 5.0 | 20A | 1/2"C–2#12 | AP–5:28 | BY KES | 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 RECEPTCLE |
| 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 RECEPTCLE |
| 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–5:42 | 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 | 17.6 | 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 | 22.4 | 40A | 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 | 1.2 | 15A | 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 | 12.0 | 15A | 1/2"C–2#12 | AP–6:(13,15) | | 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 |

A

# ELECTRICAL SCHEDULE

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor
VIF = Verify in Field

| 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. | 20A | 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 | 20A | 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 | 20A | 1/2"C–2#12IG | CP:20,22 | IG5262 | 4'–6" | FOR MONITOR, PRINTER AND THIN CLIENT |
| 225.03E4 | 1 | OFFICE PACKAGE/DESK UNIT | DATA CABLE | – | – | – | – | 4x4x4 PB | 4'–6" | EXTEND 2 1/2" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLE |
| 226.00E1 | 1 | CREW MICROWAVE | 120/1 | 10.0 | 20A | 1/2"C–2#12 | AP–1:5 | 5–20R | 1'–6" | EC TO PROVIDE SIMPLEX ON DEDICATED CIRCUIT FOR CREW MICROWAVE |
| 226.09E1 | 1 | CREW SMART LOCKERS | 120/1 | 1.7 | 20A | 1/2"C–2#12 | AP–2:11 | 5–20R | 1'–6" | FOR SMART LOCKER AND CREW REFRIGERATOR |
| 237.00E2 | 1 | PIE DISPLAY | 120/1 | 4.7 | 20A | 1/2"C–2#12 | AP–5:24 | 5–20R | 5'–5" | – |
| 237.00E4 | 1 | PIE DISPLAY | 120/1 | 4.7 | 20A | 1/2"C–2#12 | AP–5:26 | BY KES | SEE RMKS | EC TO EXTEND CIRCUIT TO KES OUTLET IN CHASE |
| 700.07E1 | 1 | WATER HEATER – GAS | 120/1 | 4.0 | 20A | 1/2"C–2#12 | AP–2:13 | JB | SEE RMKS | EC TO VERIFY JB HEIGHT IN FIELD – EC TO PROVIDE PADLOCKABLE DEVICE AT CCT BRKR PER NEC 422.31 |
| 700.09E1 | 1 | ECONOMY OEP BOX W/MOUNTING HARDWARE | – | – | – | – | – | BY KES | SEE RMKS | CEILING MOUNTED |
| 700.10E1 | 1 | BULK OIL SYSTEM | 120/1 | 7.2, 10.0 | (2) 20A | 1/2"C– 2#12 | AP–2:15,27 | (2)5–20R | 8'–0" | PROVIDE DOUBLE DUPLEX WALL PLATE. FOR OIL PUMP AND RECIRCULATION HEATING SYSTEM |
| 700.10E2 | 1 | BULK OIL SYSTEM | 120/1 | 6.9 | 20A | 1/2"C–2#12 | AP–5:25 | 5–20R | 1'–6" | FOR GRILL GREASE PUMP |
| 700.10E3 | 1 | BULK OIL SYSTEM | PHONE BOX | – | – | – | – | RJ–11C JACK | 8'–0" | TELEPHONE LINE FOR TELEMETRY SYSTEM |
| 700.11E1 | 1 | OEP UTILITY PANEL W/ MOUNTING HARDWARE – STATIC BOX | – | – | – | – | – | – | SEE RMKS | SUPPLIED WITH RECEPTACLES,ITEM MOUNTS ON CEILING |
| 701.01E1 | 2 | HAND DRYER | 120/1 | 9.1 | 20A | 1/2"C–2#12 | AP–6:1,3 | JB | SEE RMKS | INSTALL JB AT A MOUNTING HGT. THAT RESULTS IN DRYER BOTTOM EDGE TO BE AT 44" AFF. |
| 701.13E1 | 3 | DCO – GENERAL PURPOSE | 120/1 | 1.5 | 20A | 1/2"C–2#12 | AP–1:1 | 5–20R | 4'–6" | CONTROL VIA CONTACTOR PANEL. PERMANENTLY MARK RECEP. |
| 701.13E14 | 2 | DCO – GENERAL PURPOSE | 120/1 | 1.7 | 20A | 1/2"C–2#12 | AP–1:1 | 5–20R | 4'–6" | CONTROL VIA CONTACTOR PANEL. PERMANENTLY MARK RECEP. PROVIDE USB CHARGER RECEP., HUBBELL USB20X2* AND DEEP BOX AS REQ. |
| 701.13E18 | 1 | DCO – GENERAL PURPOSE | 120/1 | 1.5 | 20A | 1/2"C–2#12 | AP–1:3 | 5–20R | 4'–6" | – |
| 701.13E19 | 1 | DCO – GENERAL PURPOSE | 120/1 | 1.7 | 20A | 1/2"C–2#12 | AP–1:1 | 5–20R | 1'–6" | CONTROL VIA CONTACTOR PANEL. PERMANENTLY MARK RECEP. PROVIDE USB CHARGER RECEP., HUBBELL USB20X2* AND DEEP BOX AS REQ. |
| 701.13E2 | 2 | DCO – GENERAL PURPOSE | 120/1 | 1.7 | 20A | 1/2"C–2#12 | AP–1:1 | 5–20R | 3'–6" | CONTROL VIA CONTACTOR PANEL. PERMANENTLY MARK RECEP. PROVIDE USB CHARGER RECEP., HUBBELL USB20X2* AND DEEP BOX AS REQ. |
| 701.13E3 | 3 | DCO – GENERAL PURPOSE | 120/1 | 1.5 | 20A | 1/2"C–2#12 | AP–2:6 | 5–20R | 1'–6" | – |
| 701.13E4 | 2 | DCO – GENERAL PURPOSE | 120/1 | 3.0 | 20A | 1/2"C–2#12 | AP–1:3 | (2) 5–20R | FLUSH ON CLG | PROVIDE DOUBLE DUPLEX WALL PLATE |
| 701.13E9 | 5 | DCO – GENERAL PURPOSE | 120/1 | 1.5 | 20A | 1/2"C–2#12 | AP–2:42 | 5–20R | 1'–6" | – |
| 701.14E1 | 1 | TELEPHONE | PHONE BOX | – | – | – | – | RJ–11C JACK | 4'–6" | – |
| 701.14E3 | 1 | TELEPHONE | PHONE BOX | – | – | – | – | RJ–11C JACK | 3'–6" | – |
| 701.15E1 | 1 | DOOR BUZZER | 120/1 | .5 | 20A | 1/2"C–2#12 | LP–1:16 | – | 8'–0" | CONNECT TRANSFORMER TO POWER & ROUTE LOW VOLTAGE WIRES OVERHEAD TO DOOR BUTTON |
| 701.27E1 | 1 | DCO–SATELLITE MUSIC SYSTEM | 120/1 | 1.0 | 20A | 1/2"C–2#12 | AP–5:30 | (2) 5–20R | 3'–0" | PROVIDE DOUBLE DUPLEX WALL PLATE |
| 701.32E1 | 1 | REMOTE ORDER TAKER BATTERY PACK | 120/1 | 2.0 | 20A | 1/2"C–2#12 | AP–1:9 | (2) 5–20R | 4'–6" | PROVIDE DOUBLE DUPLEX WALL PLATE. FIELD VERIFY HEIGHT AND LOCATION WITH ACM |

A

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 2/3/26 | CHANGING WATER HEATER AND RTUS TO GAS, DECOR UPDATES | DA |

STATE OF MISSOURI
PROFESSIONAL ENGINEER
2/20/26

PREPARED BY:
**CORE STATES GROUP**
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Bentonville, AR 72712
479.877.3465
www.core-states.com

PREPARED FOR:
**McDonald's USA, LLC**

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DRAWN BY
DA
STD ISSUE DATE
2025 05
REVIEWED BY
CS
DATE ISSUED
10–16–2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

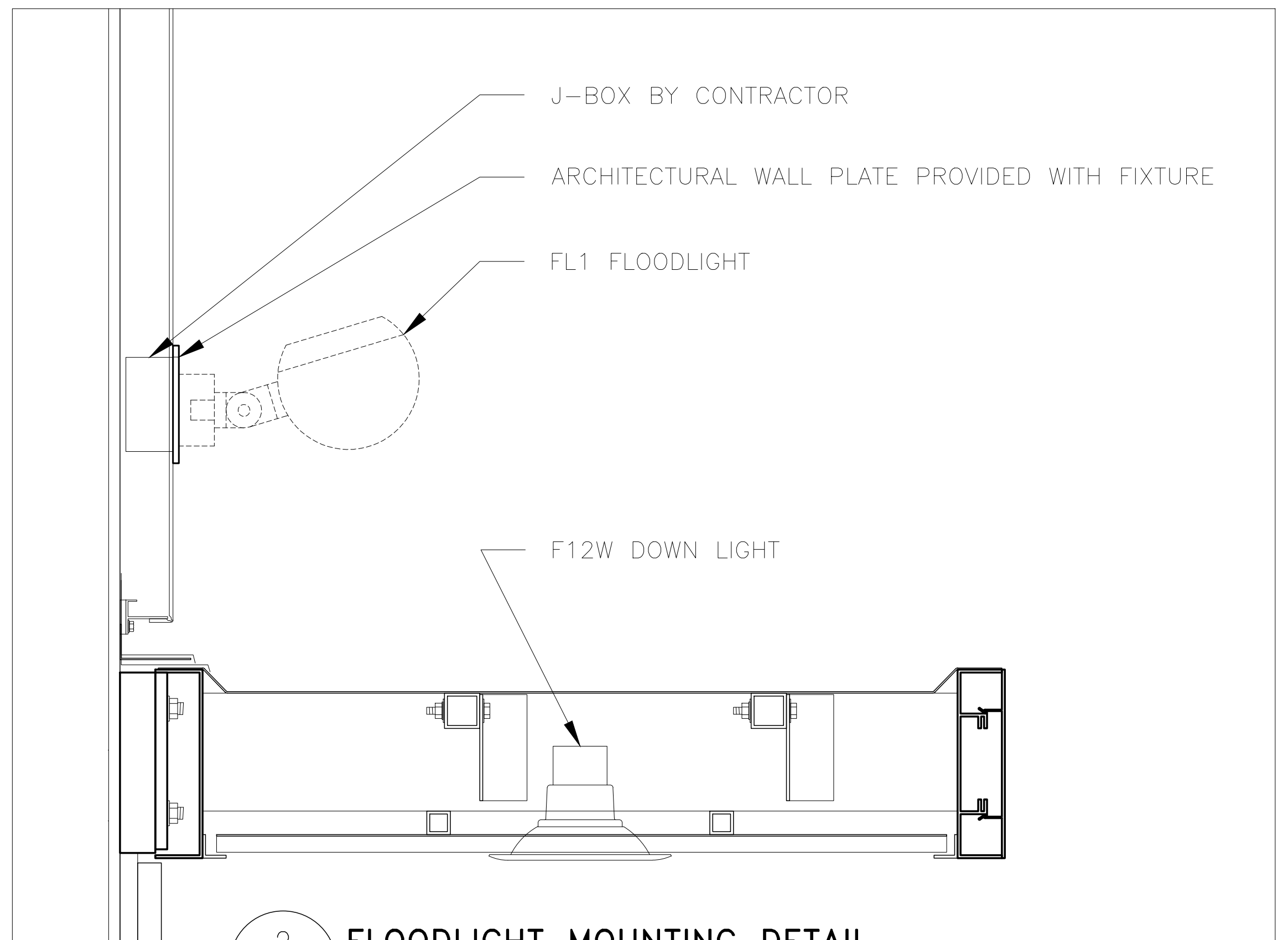
NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
E3.0
ROUGH–IN SCHEDULE

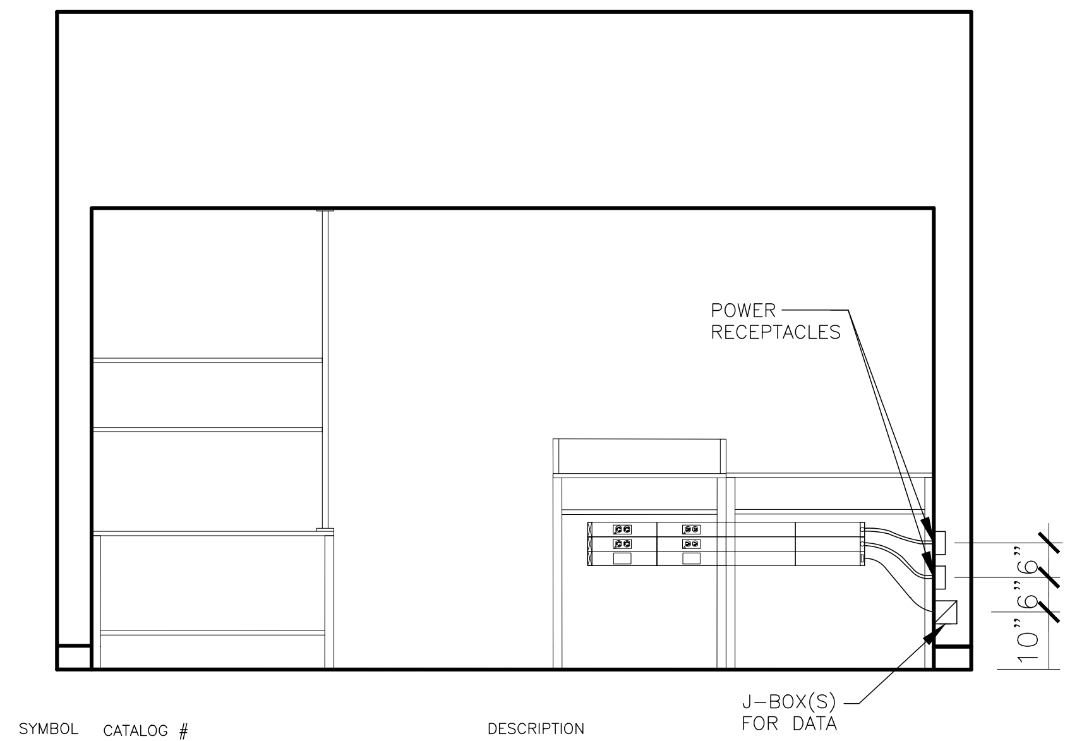
PB = Pullbox
JB = Junction Box
EC = Electrical Contractor
VIF = Verify in Field

# 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 E-3.1 **FLOODLIGHT MOUNTING DETAIL**
NOT TO SCALE



| SYMBOL | CATALOG # | DESCRIPTION |
|---|---|---|
| ▭ | HBLALU57DR & IG4700 | RECEPTACLE COVERPLATE WITH ORANGE, TWIST LOCK, ISOLATED GROUND DUPLEX RECEPTACLE |
| ▭ | HBLALU57DR & 5-20R FOR BAKED GOODS AND IG5262 FOR CASH | RECEPTACLE COVERPLATE WITH STRAIGHT BLADE RECEPTACLE |
| ▭ | HBLALU57LPB | COMMUNICATIONS COVERPLATE |
| ▭ | HBLALU7620B02M290 | 2' SECTION OF RACEWAY. INCLUDES COUPLERS |
| ▭ | HBLALU7620B03M290 | 3' SECTION OF RACEWAY. INCLUDES COUPLERS |
| ▭ | HBLALU7610B2M2 | SERVICE ENTRANCE FITTING & BUSHING FOR DATA CABLES |
| ▭ | HBLALU7610B | BLANK END FITTING |
| N/A | HBLALU5701 | COUPLER (INCLUDED WITH RACEWAY SECTION) |
| N/A | HBLALU5709 | 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.

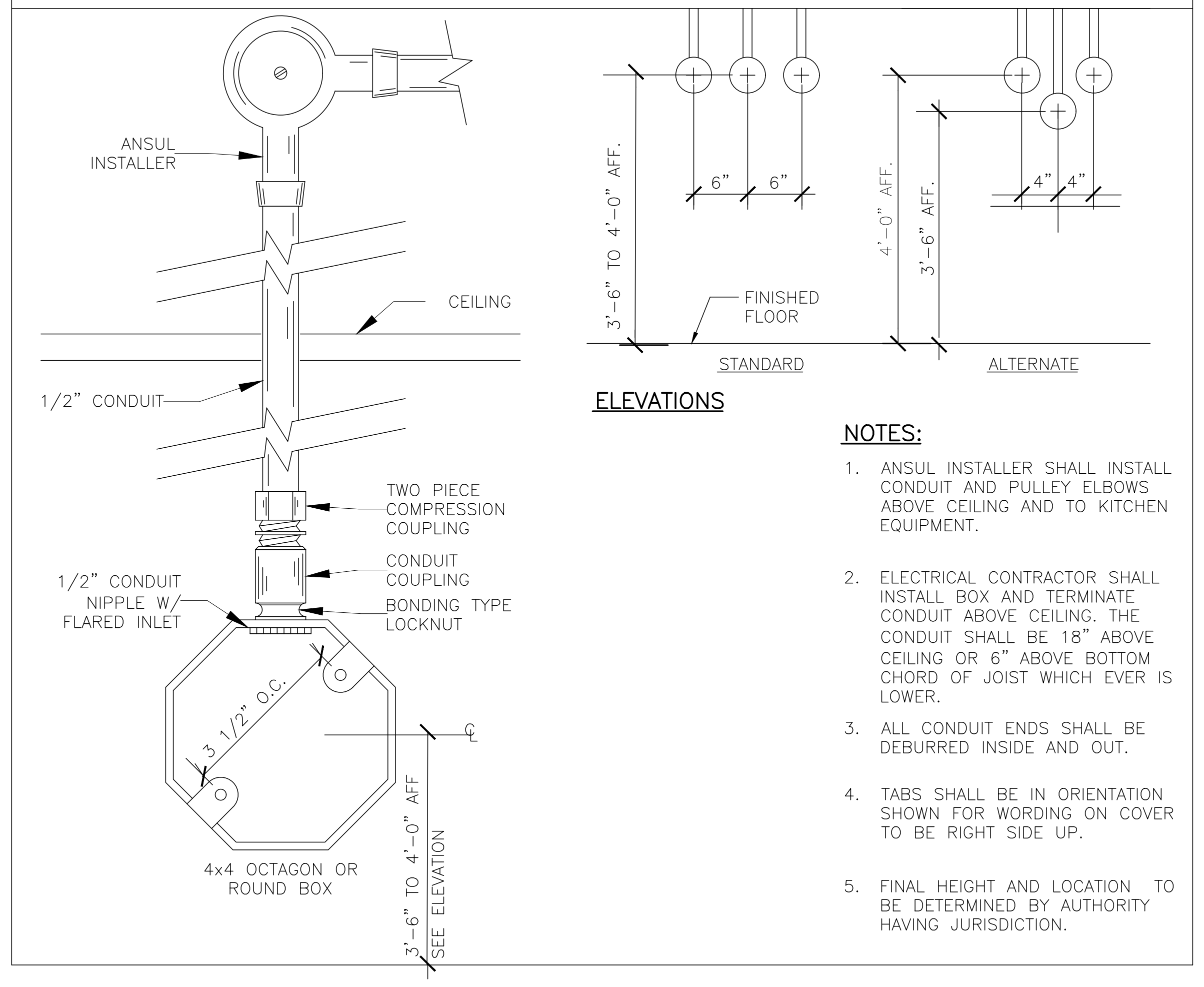
3. DETAIL SHOWN IS A TYPICAL CONFIGURATION ONLY. SITE SPECIFICS MIGHT CAUSE DEVIATIONS.

4. PART NUMBERS SHOWN REFLECT HUBBELL, SOME SUPPIERS MAY USE WIREMOLE EQUIVALENT.

1 E-3.1 **SERVICE POD RACEWAY DETAIL**
NOT TO SCALE

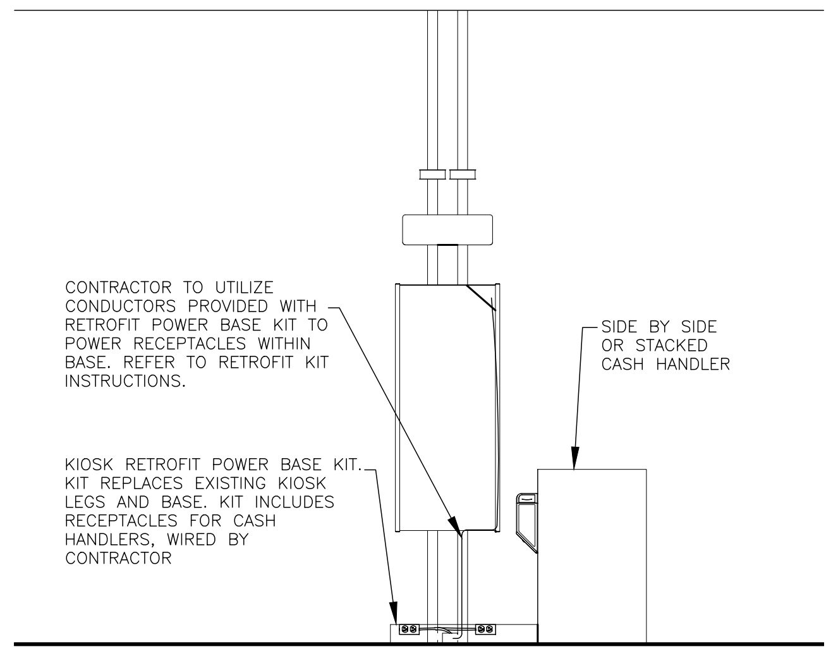
## REMOTE ANSUL PULL STATION

FOR REFERENCE



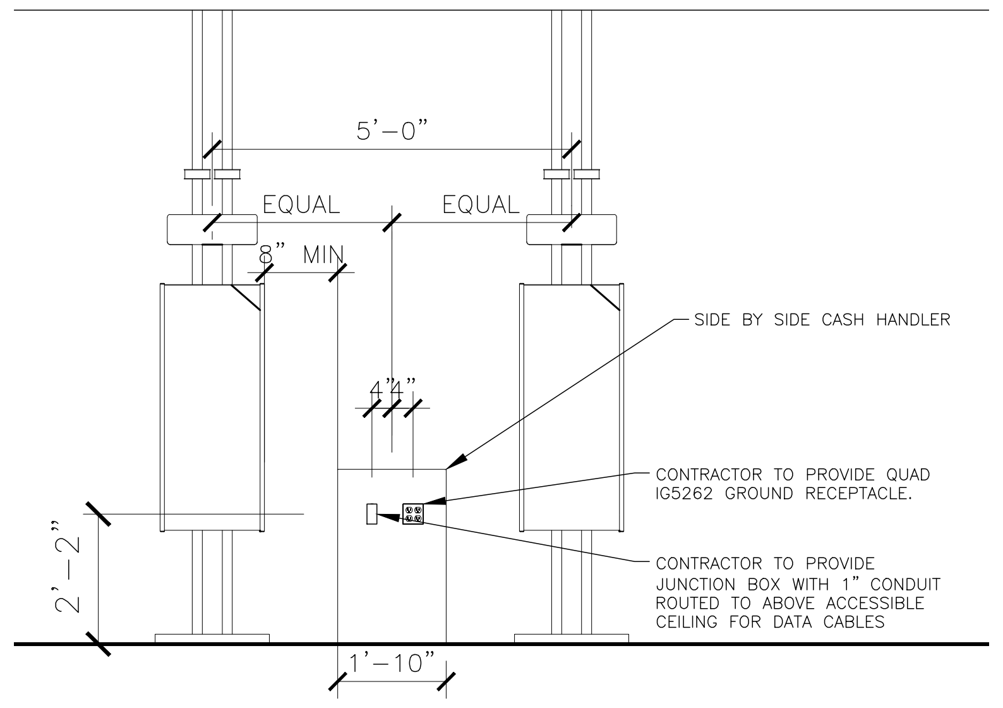
NOTES:

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.


CONTRACTOR TO UTILIZE CONDUCTORS PROVIDED WITH RETROFIT POWER BASE KIT TO POWER RECEPTACLES WITHIN BASE. REFER TO RETROFIT KIT INSTRUCTIONS.
SIDE BY SIDE OR STACKED CASH HANDLER
KIOSK RETROFIT POWER BASE KIT. KIT REPLACES EXISTING KIOSK LEGS AND BASE. KIT INCLUDES RECEPTACLES FOR CASH HANDLERS, WIRED BY CONTRACTOR

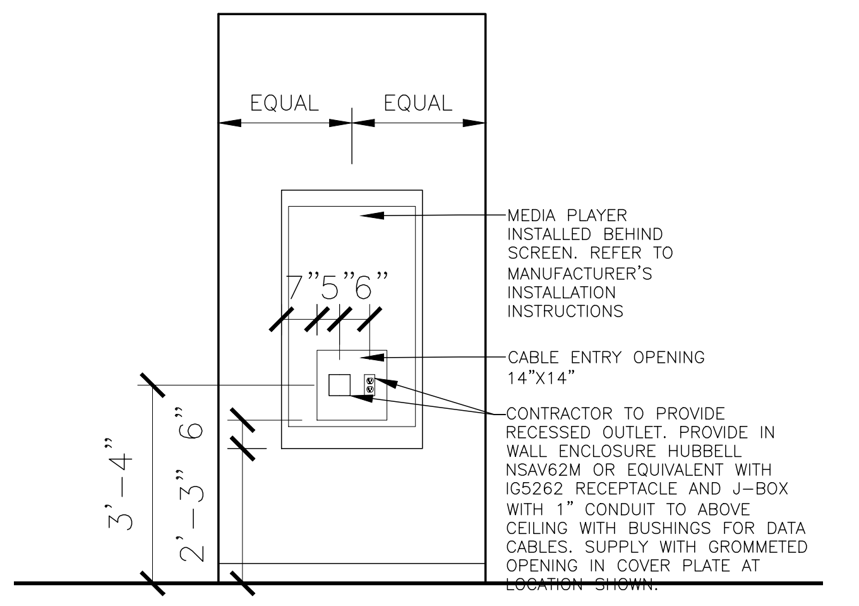
NOTES:
1. THIS EXAMPLE IS FOR A SIDE BY SIDE CASH HANDLER THAT DOES NOT HAVE A GC WALL BEHIND IT AND IS NEXT TO A KIOSK. IT IS ALSO INTENDED FOR ALL STACKED CASH HANDLERS.
2. EACH SIDE BY SIDE CASH HANDLER UTILIZES 3 PLUGS AND ADDS 4.4 AMPS OF LOAD TO THE KIOSK CIRCUIT.
3. EACH STACKED CASH HANDLER UTILIZED 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 E-3.1 **TYP. CASH HANDLER POWER DETAIL**
NOT TO SCALE


5'-0"
EQUAL
EQUAL
8" MIN
4"
4"
SIDE BY SIDE CASH HANDLER
CONTRACTOR TO PROVIDE QUAD IG5262 GROUND RECEPTACLE.
CONTRACTOR TO PROVIDE JUNCTION BOX WITH 1" CONDUIT ROUTED TO ABOVE ACCESSIBLE CEILING FOR DATA CABLES
2'-2"
1'-10"

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.

4 E-3.1 **CASH HANDLER POWER DETAIL W/REAR TO WALL**
NOT TO SCALE


EQUAL
EQUAL
MEDIA PLAYER INSTALLED BEHIND SCREEN. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS
7"
5"
6"
CABLE ENTRY OPENING 14"X14"
CONTRACTOR TO PROVIDE RECESSED OUTLET. PROVIDE IN WALL ENCLOSURE HUBBELL NSAV62M OR EQUIVALENT WITH IG5262 RECEPTACLE AND J-BOX WITH 1" CONDUIT TO ABOVE CEILING WITH BUSHINGS FOR DATA CABLES. SUPPLY WITH GROMMETED OPENING IN COVER PLATE AT LOCATION SHOWN.
3'-4"
2'-3"
6"

NOTES:
1. THIS EXAMPLE IS FOR A WALL MOUNTED DIGITAL MERCHANDISER.

3 E-3.1 **DIGITAL MERCHANDISER POWER DETAIL**
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<br>>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<br>>2.5" IMC THREADED FTGS | <2" EMT SET SCREW. FTGS<br>>2.5" IMC THREADED FTGS | EMT<br>1/2"- 2" SET SCREW FTGS<br>2.5" - 4" COMPR. FTGS |
| AIR HANDLING CEILING/SPACE | <2" EMT COMPR. FTGS<br>>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<br>>2.5" IMC THREADED. FTGS | <2" EMT COMPR. FTGS >2.5" IMC THREADED. FTGS | EMT<br>1/2" - 2" SET SCREW FTGS<br>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 GC 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.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

2/20/26

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DRAWN BY: DA
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
E3.1
NOTES & DETAILS

Q:\RESTAURANTS\MCDONALDS CORPORATION\INITIATIVES\TAYLOR KEMPKES\BOONVILLE, MO (490 AMERICANA) 024-1281 – TKA.25.41802.01\DESIGN FILES\ARCHITECTURE\ELEC.DWG 02-20-2026 19:50

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 |

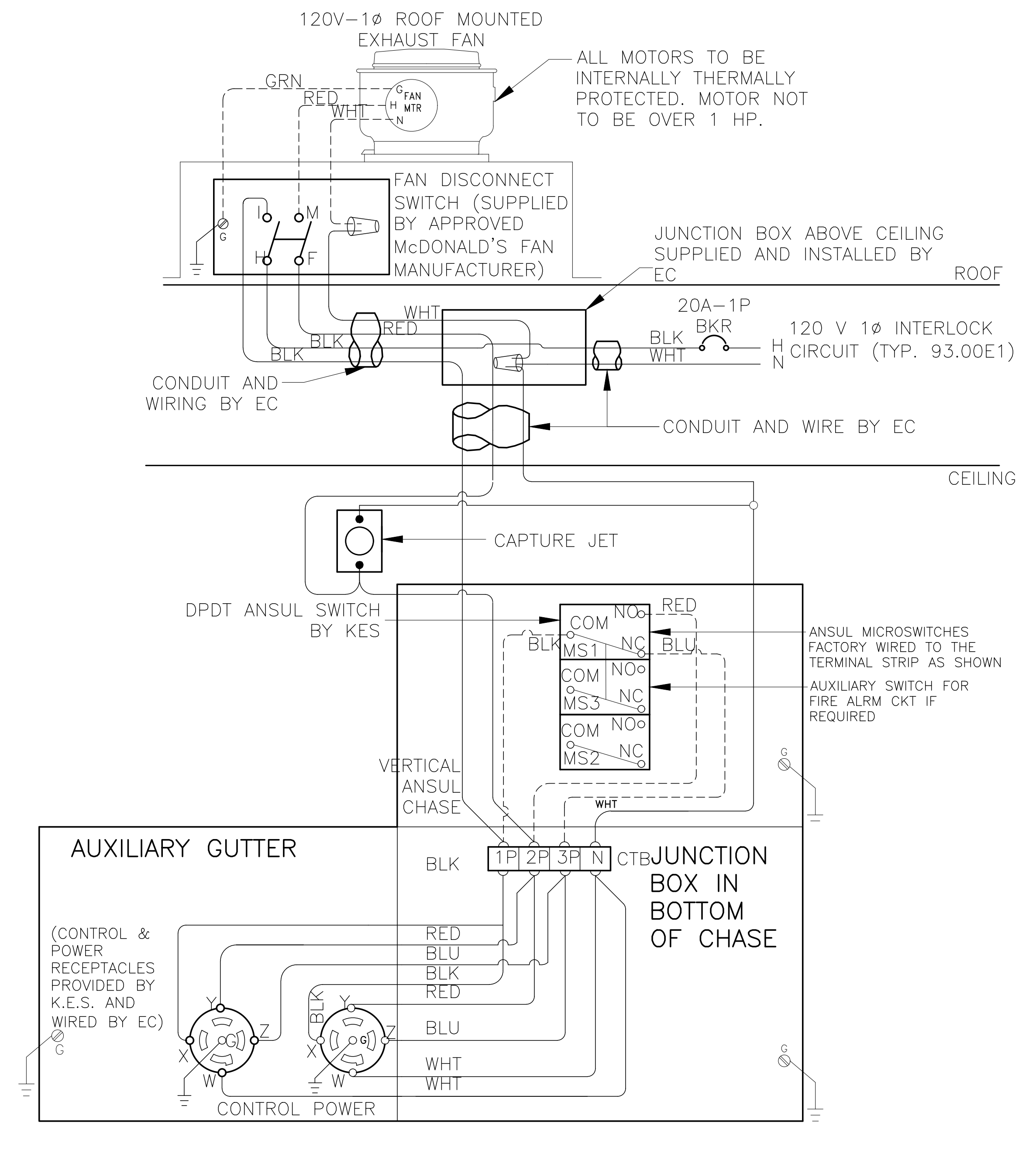
| COOKING EQUIPMENT EXHAUST FAN | MAKE UP PROVIDED BY |
|---|---|
| EF/1 | RTU–3 |
| EF/2 | RTU–1 |
| EF/3 | RTU–2 |

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.

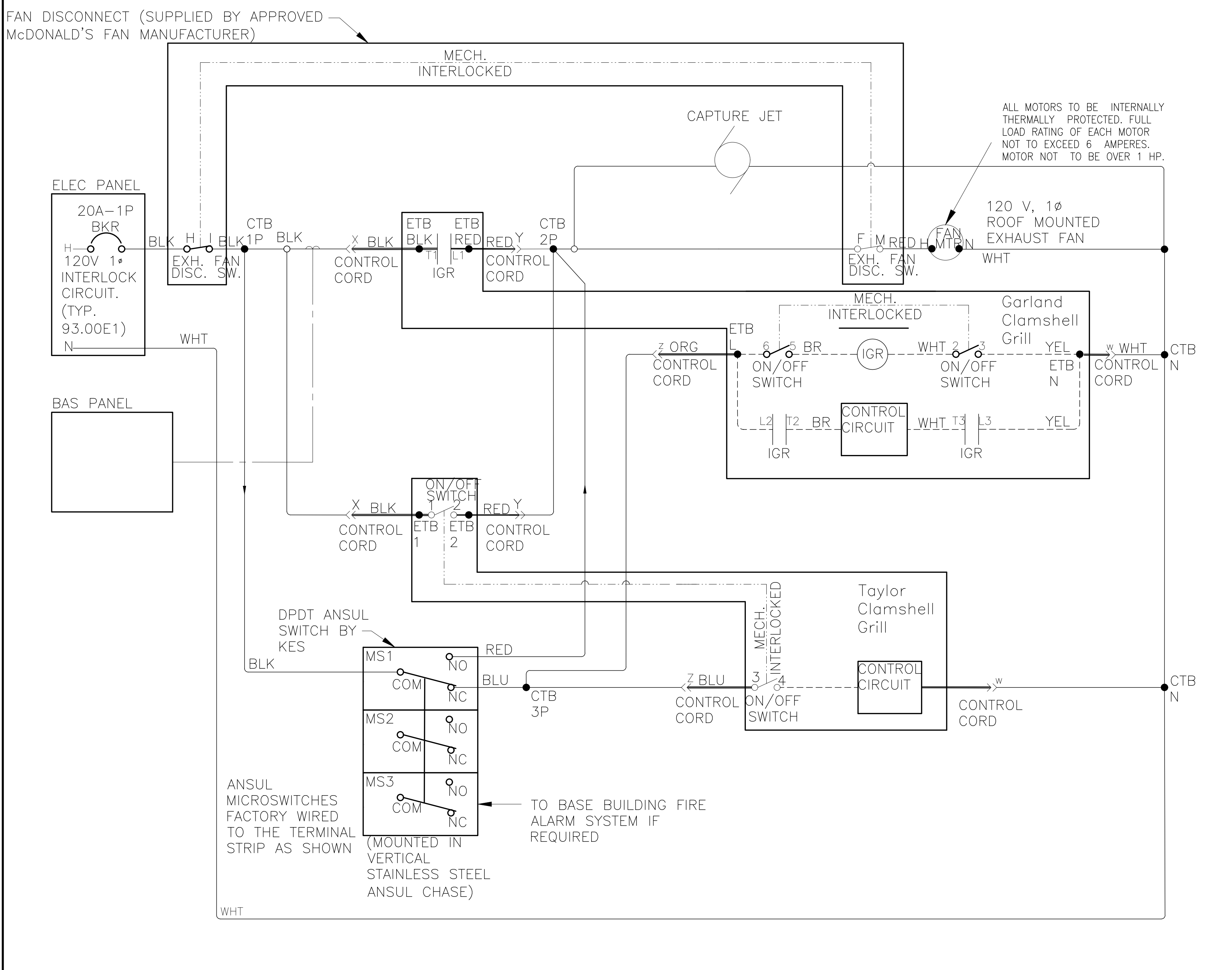
## 1 TYPICAL MAKEUP AIR RTU EXHAUST FAN SCHEDULE
E–3.2 FOR REFERENCE ONLY

REVISED: 6/18


120V–1ø ROOF MOUNTED EXHAUST FAN
ALL MOTORS TO BE INTERNALLY THERMALLY PROTECTED. MOTOR NOT TO BE OVER 1 HP.
GRN
RED
WHT
FAN MTR
FAN DISCONNECT SWITCH (SUPPLIED BY APPROVED McDONALD'S FAN MANUFACTURER)
JUNCTION BOX ABOVE CEILING SUPPLIED AND INSTALLED BY EC
ROOF
20A–1P BKR
120 V 1ø INTERLOCK CIRCUIT (TYP. 93.00E1)
CONDUIT AND WIRING BY EC
CONDUIT AND WIRE BY EC
CEILING
CAPTURE JET
DPDT ANSUL SWITCH BY KES
ANSUL MICROSWITCHES FACTORY WIRED TO THE TERMINAL STRIP AS SHOWN
AUXILIARY SWITCH FOR FIRE ALRM CKT IF REQUIRED
MS1
MS3
MS2
COM
NO
NC
VERTICAL ANSUL CHASE
AUXILIARY GUTTER
BLK
BLU
1P 2P 3P N CTB
JUNCTION BOX IN BOTTOM OF CHASE
(CONTROL & POWER RECEPTACLES PROVIDED BY K.E.S. AND WIRED BY EC)
CONTROL POWER

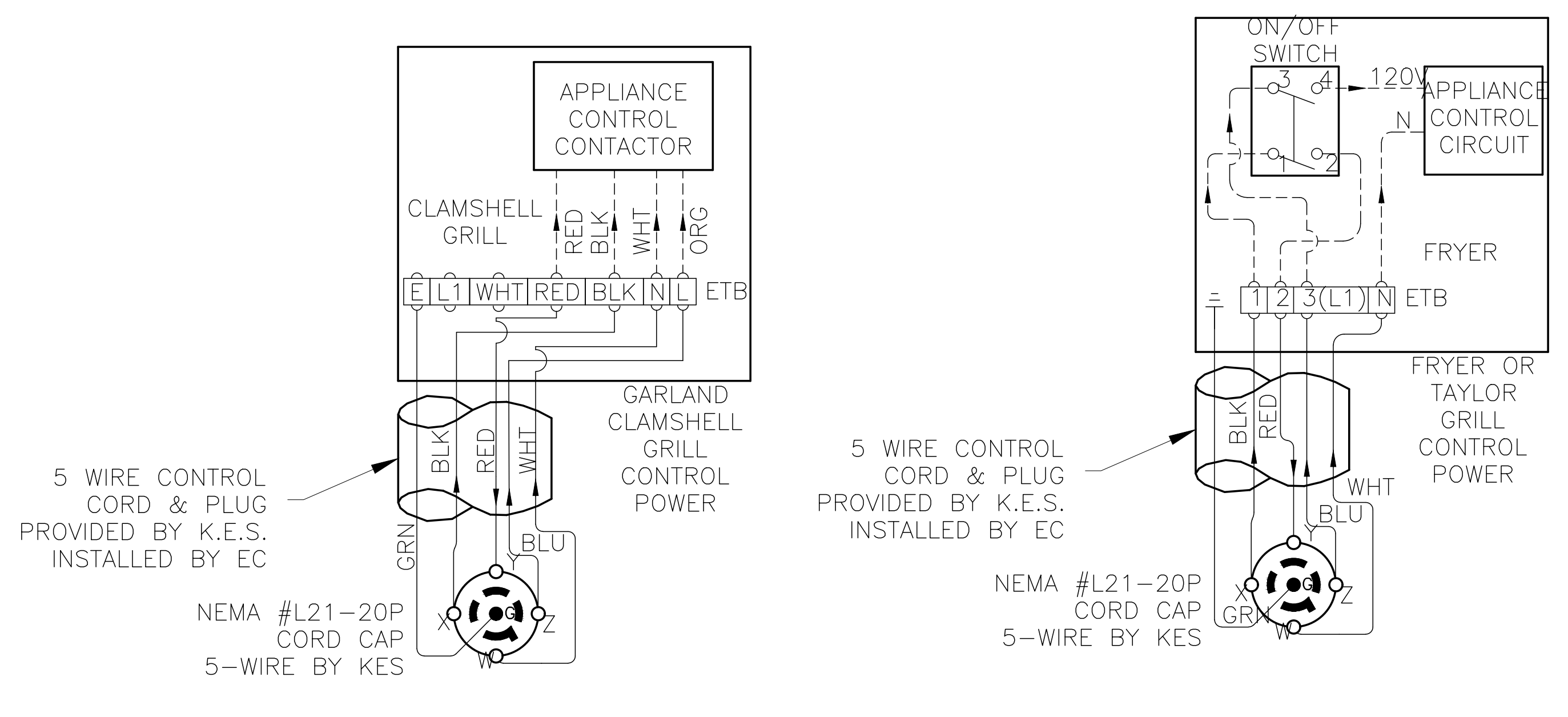
## 2 INTERLOCK WIRING DIAGRAM FOR EXHAUST FAN AND COOKING EQUIPMENT
E–3.2 FOR REFERENCE ONLY

REVISED: 6/18


FAN DISCONNECT (SUPPLIED BY APPROVED McDONALD'S FAN MANUFACTURER)
MECH. INTERLOCKED
CAPTURE JET
ALL MOTORS TO BE INTERNALLY THERMALLY PROTECTED. FULL LOAD RATING OF EACH MOTOR NOT TO EXCEED 6 AMPERES. MOTOR NOT TO BE OVER 1 HP.
120 V, 1ø ROOF MOUNTED EXHAUST FAN
ELEC PANEL
20A–1P BKR
120V 1ø INTERLOCK CIRCUIT (TYP. 93.00E1)
EXH. FAN DISC. SW.
CONTROL CORD
IGR
Garland Clamshell Grill
ON/OFF SWITCH
CONTROL CIRCUIT
BAS PANEL
Taylor Clamshell Grill
DPDT ANSUL SWITCH BY KES
MS1
MS2
MS3
ANSUL MICROSWITCHES FACTORY WIRED TO THE TERMINAL STRIP AS SHOWN
(MOUNTED IN VERTICAL STAINLESS STEEL ANSUL CHASE)
TO BASE BUILDING FIRE ALARM SYSTEM IF REQUIRED

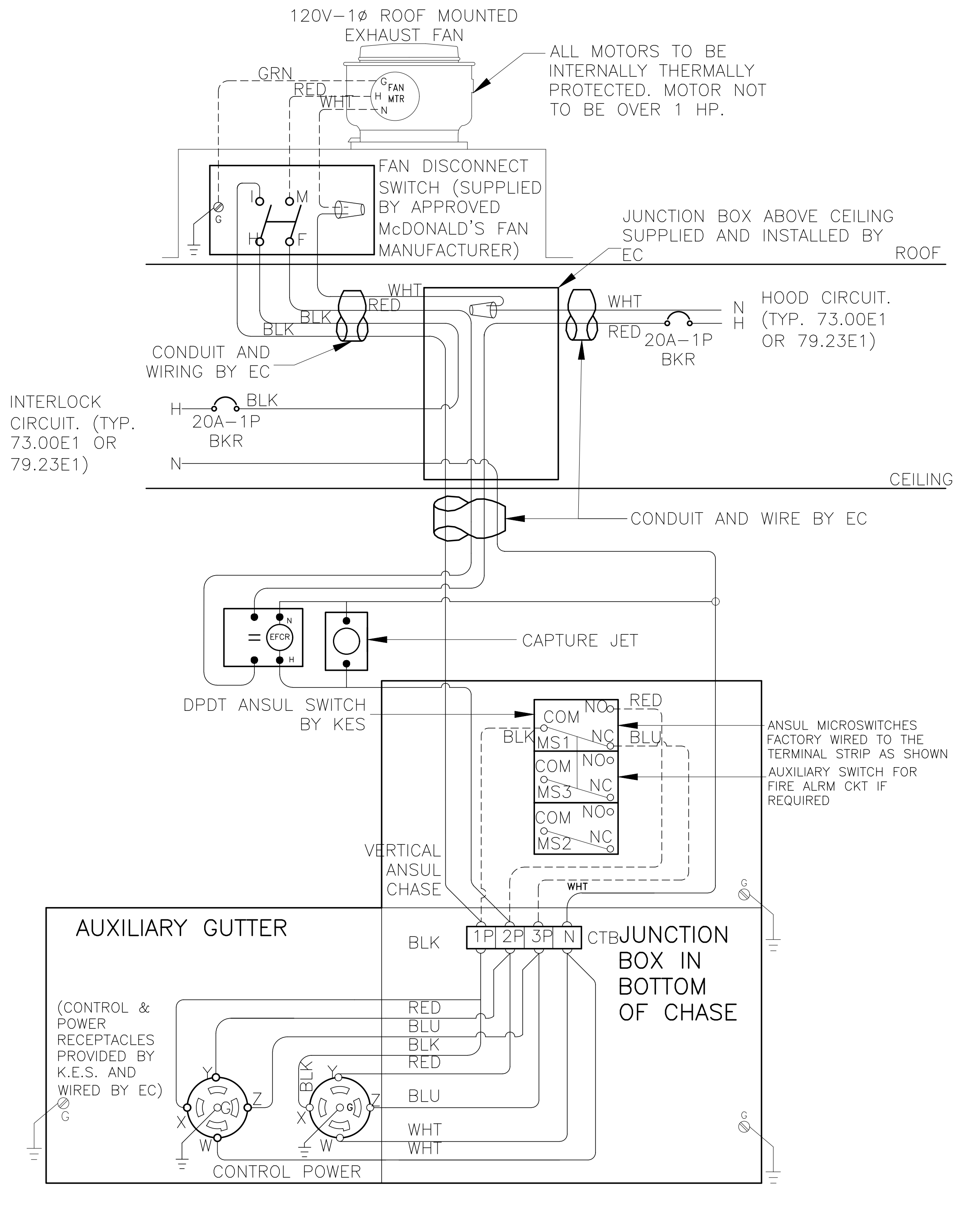
## 3 INTERLOCK LADDER DIAGRAM
E–3.2 FOR REFERENCE ONLY

REVISED: 6/18


APPLIANCE CONTROL CONTACTOR
CLAMSHELL GRILL
ETB
GARLAND CLAMSHELL GRILL CONTROL POWER
5 WIRE CONTROL CORD & PLUG PROVIDED BY K.E.S. INSTALLED BY EC
NEMA #L21–20P CORD CAP 5–WIRE BY KES
ON/OFF SWITCH
120V
APPLIANCE CONTROL CIRCUIT
FRYER
FRYER OR TAYLOR GRILL CONTROL POWER
5 WIRE CONTROL CORD & PLUG PROVIDED BY K.E.S. INSTALLED BY EC
NEMA #L21–20P CORD CAP 5–WIRE BY KES

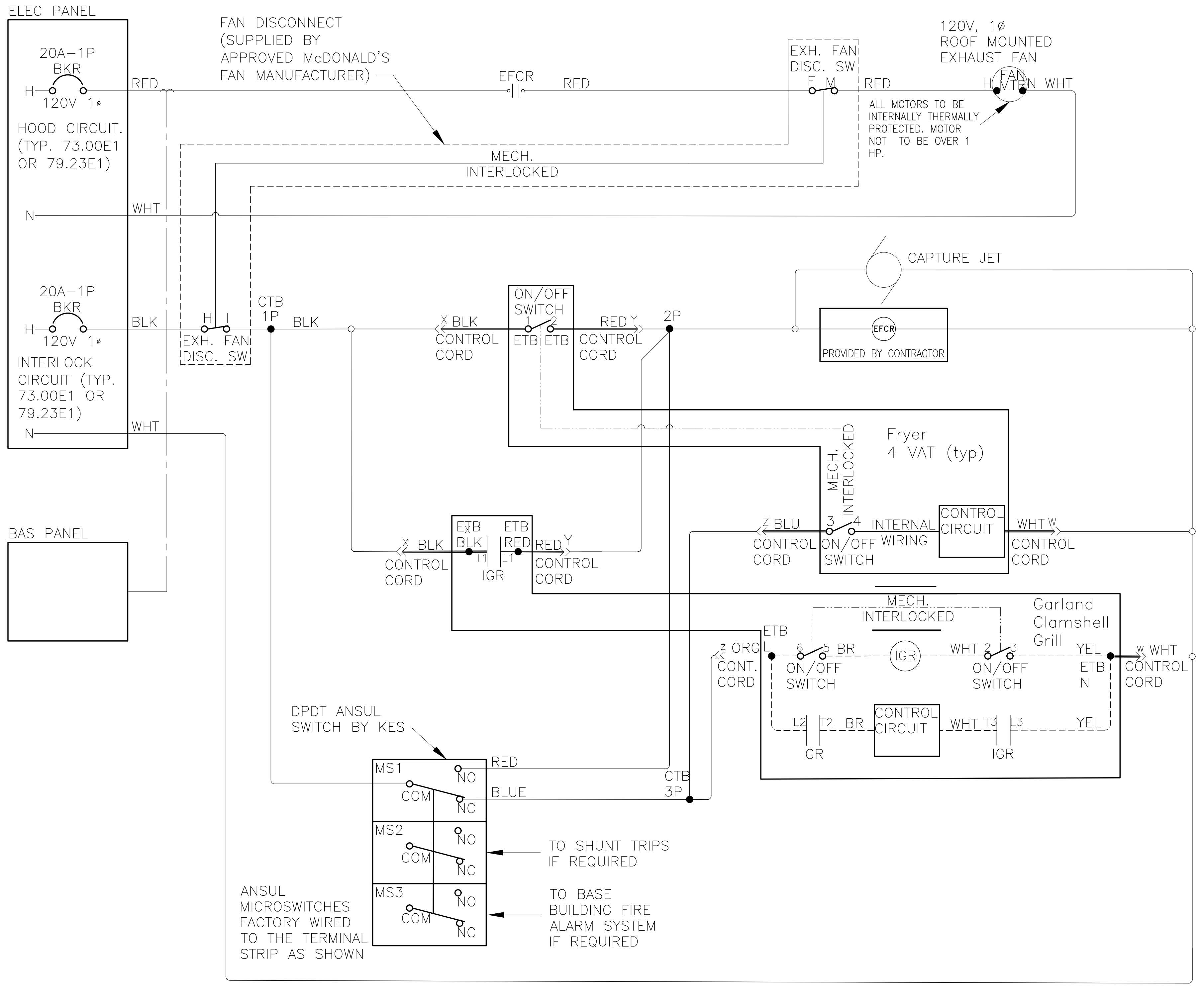
## 4 CONTROL CORD CONNECTION
E–3.2 FOR REFERENCE ONLY

REVISED: 6/18


120V–1ø ROOF MOUNTED EXHAUST FAN
ALL MOTORS TO BE INTERNALLY THERMALLY PROTECTED. MOTOR NOT TO BE OVER 1 HP.
FAN DISCONNECT SWITCH (SUPPLIED BY APPROVED McDONALD'S FAN MANUFACTURER)
JUNCTION BOX ABOVE CEILING SUPPLIED AND INSTALLED BY EC
ROOF
HOOD CIRCUIT. (TYP. 73.00E1 OR 79.23E1)
20A–1P BKR
CONDUIT AND WIRING BY EC
INTERLOCK CIRCUIT. (TYP. 73.00E1 OR 79.23E1)
CEILING
CONDUIT AND WIRE BY EC
CAPTURE JET
DPDT ANSUL SWITCH BY KES
ANSUL MICROSWITCHES FACTORY WIRED TO THE TERMINAL STRIP AS SHOWN
AUXILIARY SWITCH FOR FIRE ALRM CKT IF REQUIRED
VERTICAL ANSUL CHASE
AUXILIARY GUTTER
JUNCTION BOX IN BOTTOM OF CHASE
(CONTROL & POWER RECEPTACLES PROVIDED BY K.E.S. AND WIRED BY EC)
CONTROL POWER

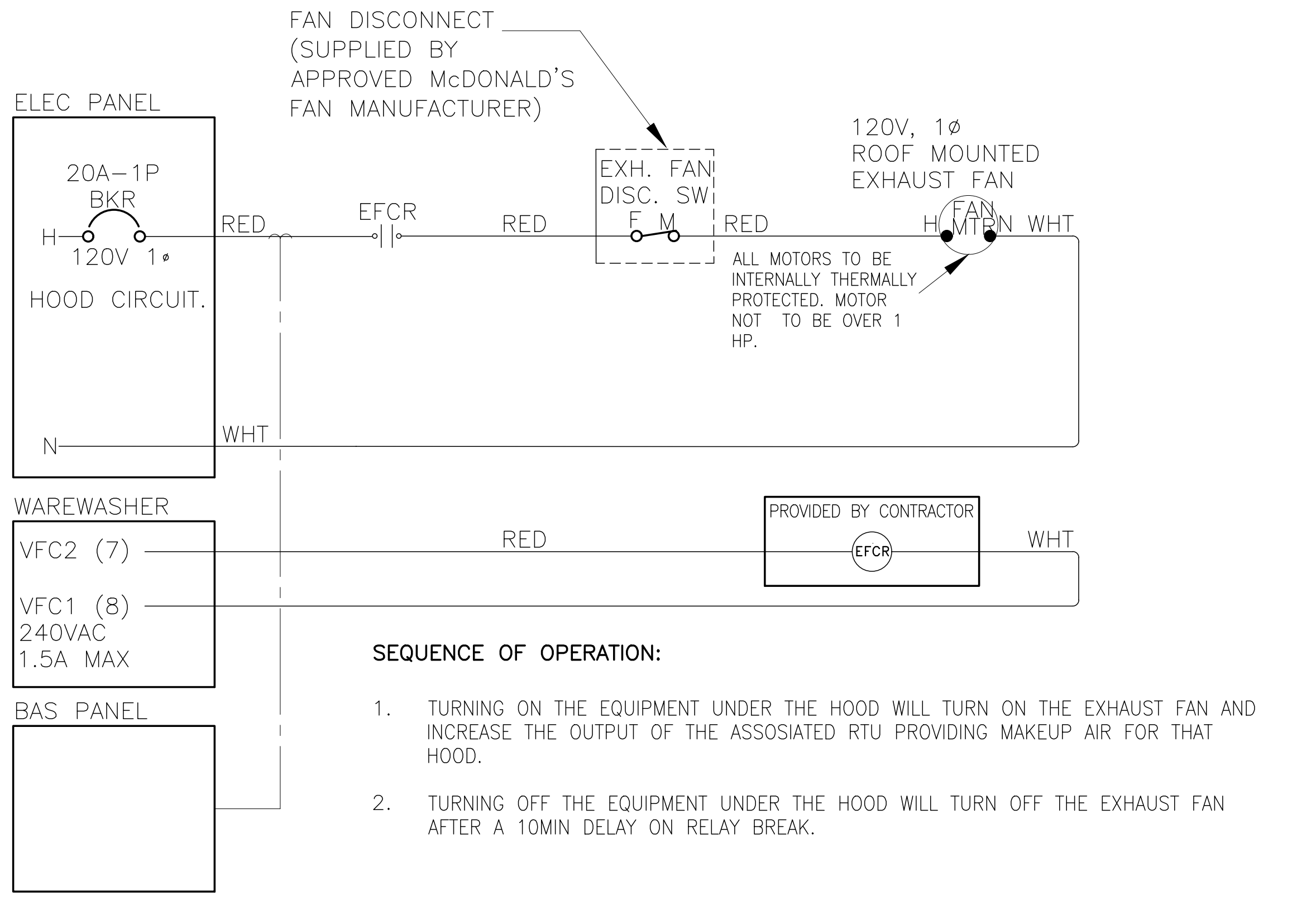
## 5 INTERLOCK WIRING DIAGRAM FOR EXHAUST FAN AND COOKING EQUIPMENT
E–3.2 FOR REFERENCE ONLY

REVISED: 6/18


ELEC PANEL
20A–1P BKR
120V 1ø
HOOD CIRCUIT. (TYP. 73.00E1 OR 79.23E1)
FAN DISCONNECT (SUPPLIED BY APPROVED McDONALD'S FAN MANUFACTURER)
EFCR
EXH. FAN DISC. SW.
120V, 1ø ROOF MOUNTED EXHAUST FAN
ALL MOTORS TO BE INTERNALLY THERMALLY PROTECTED. MOTOR NOT TO BE OVER 1 HP.
MECH. INTERLOCKED
INTERLOCK CIRCUIT (TYP. 73.00E1 OR 79.23E1)
CAPTURE JET
PROVIDED BY CONTRACTOR
BAS PANEL
Fryer 4 VAT (typ)
INTERNAL WIRING
CONTROL CIRCUIT
Garland Clamshell Grill
DPDT ANSUL SWITCH BY KES
TO SHUNT TRIPS IF REQUIRED
TO BASE BUILDING FIRE ALARM SYSTEM IF REQUIRED
ANSUL MICROSWITCHES FACTORY WIRED TO THE TERMINAL STRIP AS SHOWN

## 6 INTERLOCK LADDER DIAGRAM
E–3.2 FOR REFERENCE ONLY

REVISED: 6/18


FAN DISCONNECT (SUPPLIED BY APPROVED McDONALD'S FAN MANUFACTURER)
ELEC PANEL
20A–1P BKR
120V 1ø
HOOD CIRCUIT.
EFCR
RED
EXH. FAN DISC. SW.
120V, 1ø ROOF MOUNTED EXHAUST FAN
ALL MOTORS TO BE INTERNALLY THERMALLY PROTECTED. MOTOR NOT TO BE OVER 1 HP.
WHT
WAREWASHER
VFC2 (7)
VFC1 (8) 240VAC 1.5A MAX
PROVIDED BY CONTRACTOR
EFCR
BAS PANEL

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 INTERLOCK LADDER DIAGRAM FOR EXHAUST FAN AND WAREWASHER
E–3.2 FOR REFERENCE ONLY

REVISED: 02/24

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

2/20/26

PREPARED BY:
CORE STATES GROUP
212 SE 34th. Street, Suite 2
Bentonville, AR 72712
479.877.3465
www.core-states.com

PREPARED FOR:
McDonald's USA, LLC

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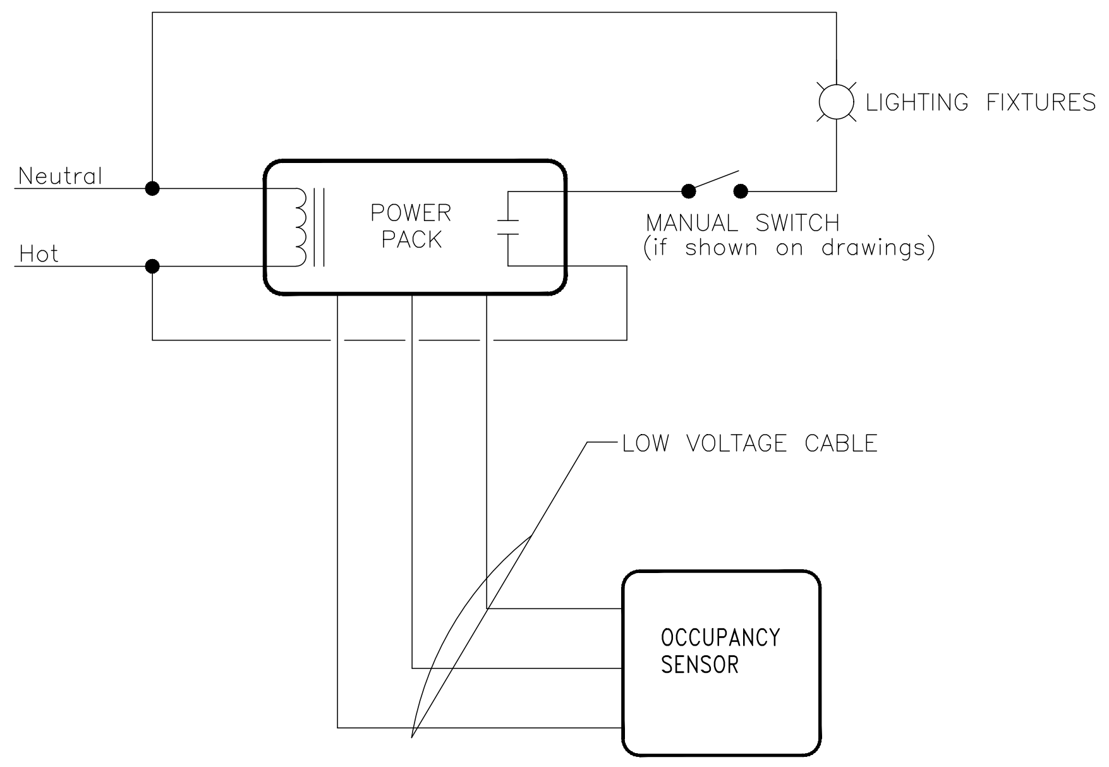
DRAWN BY DA
STD ISSUE DATE 2025 05
REVIEWED BY CS
DATE ISSUED 10–16–2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233–9756

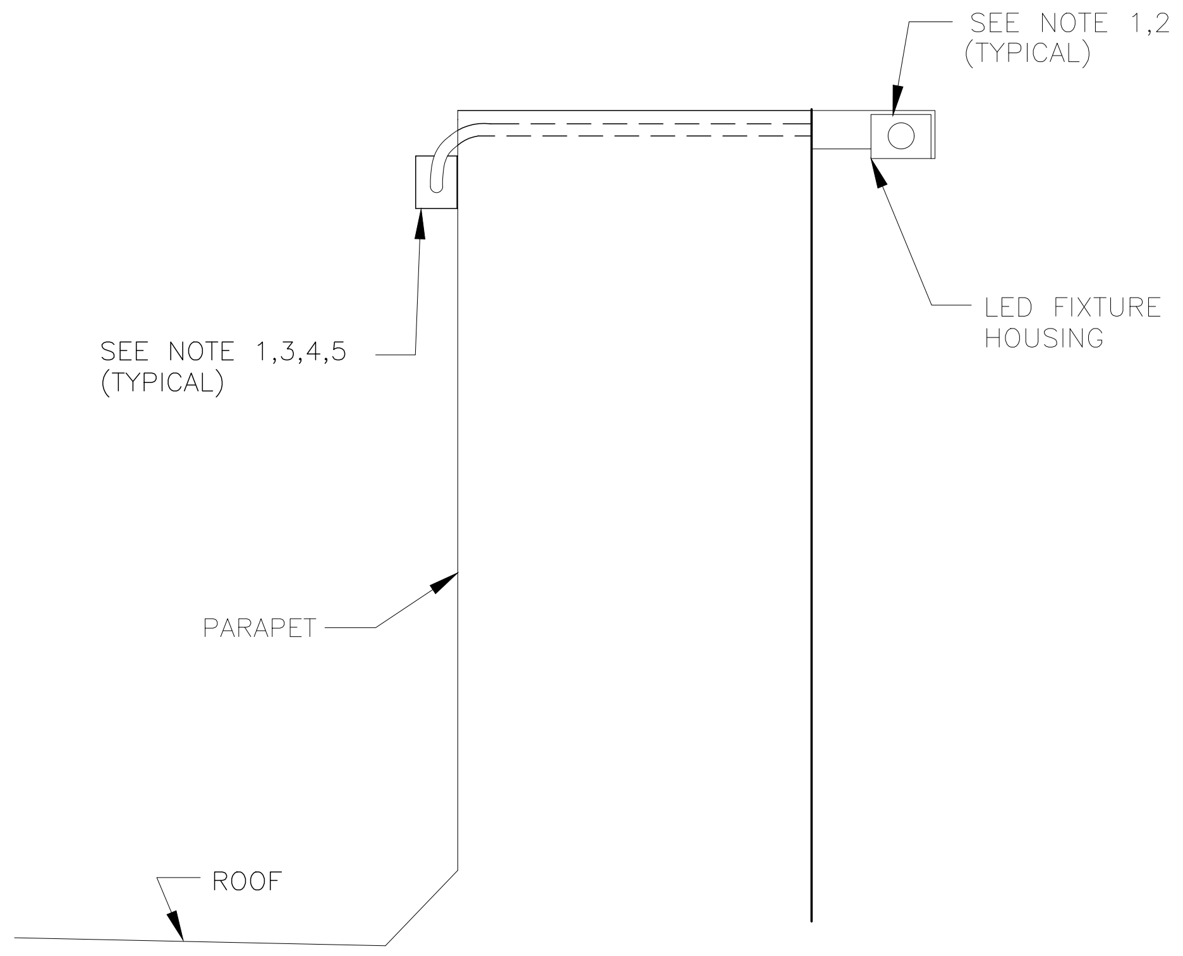
SHEET NO.
024–0281.00.0
E3.2
INTERLOCK DIAGRAMS



NOTES:

1. REFER TO LIGHTING PLAN FOR OCCUPANCY SENSOR LOCATIONS AND QUANTITIES.

## 1 OCCUPANCY SENSOR CONTROL DETAIL
E-4.0 NOT TO SCALE



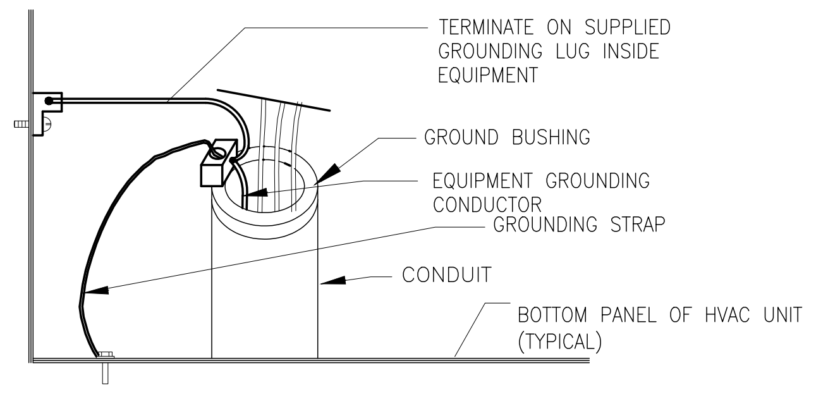
## 3 BRAND WALL LIGHTING DETAIL
E-4.0 NOT TO SCALE

### 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.

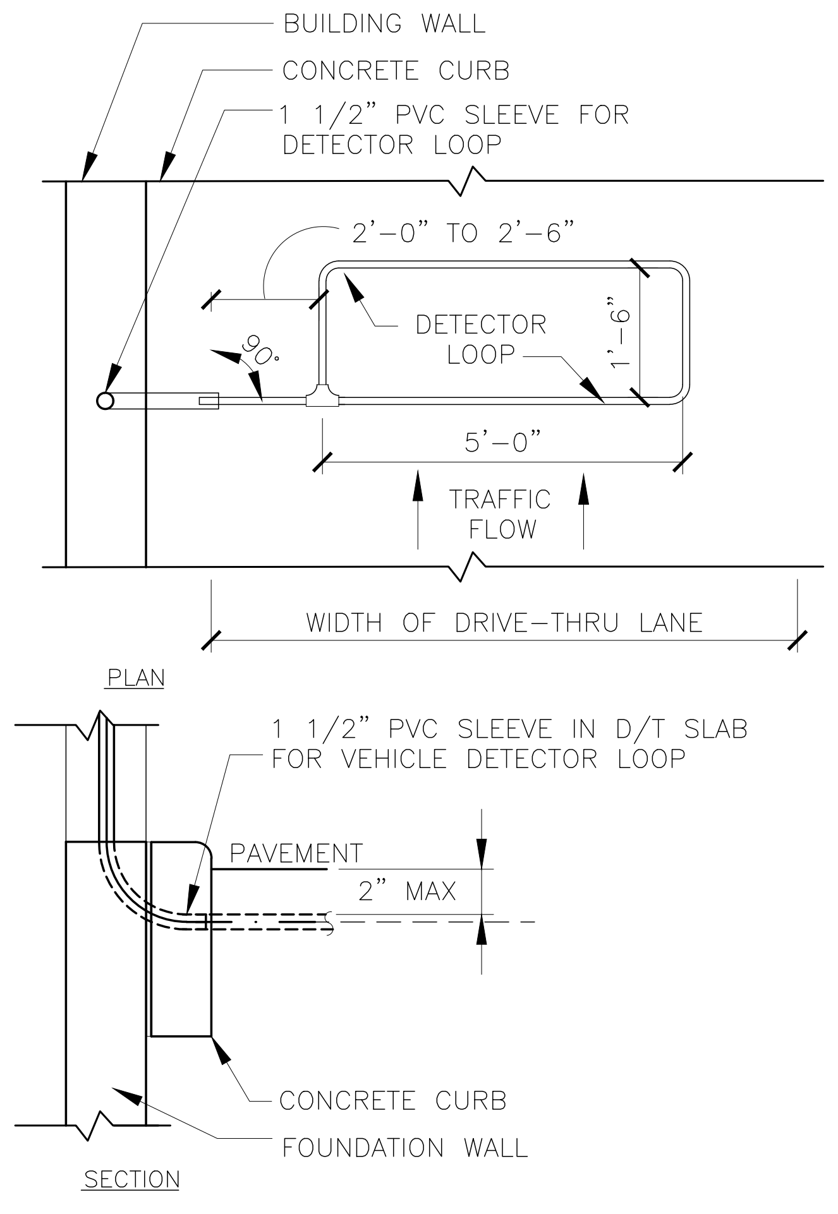
## CONDUIT, WIRE SIZE AND GROUNDING FOR HVAC UNITS

| 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 |

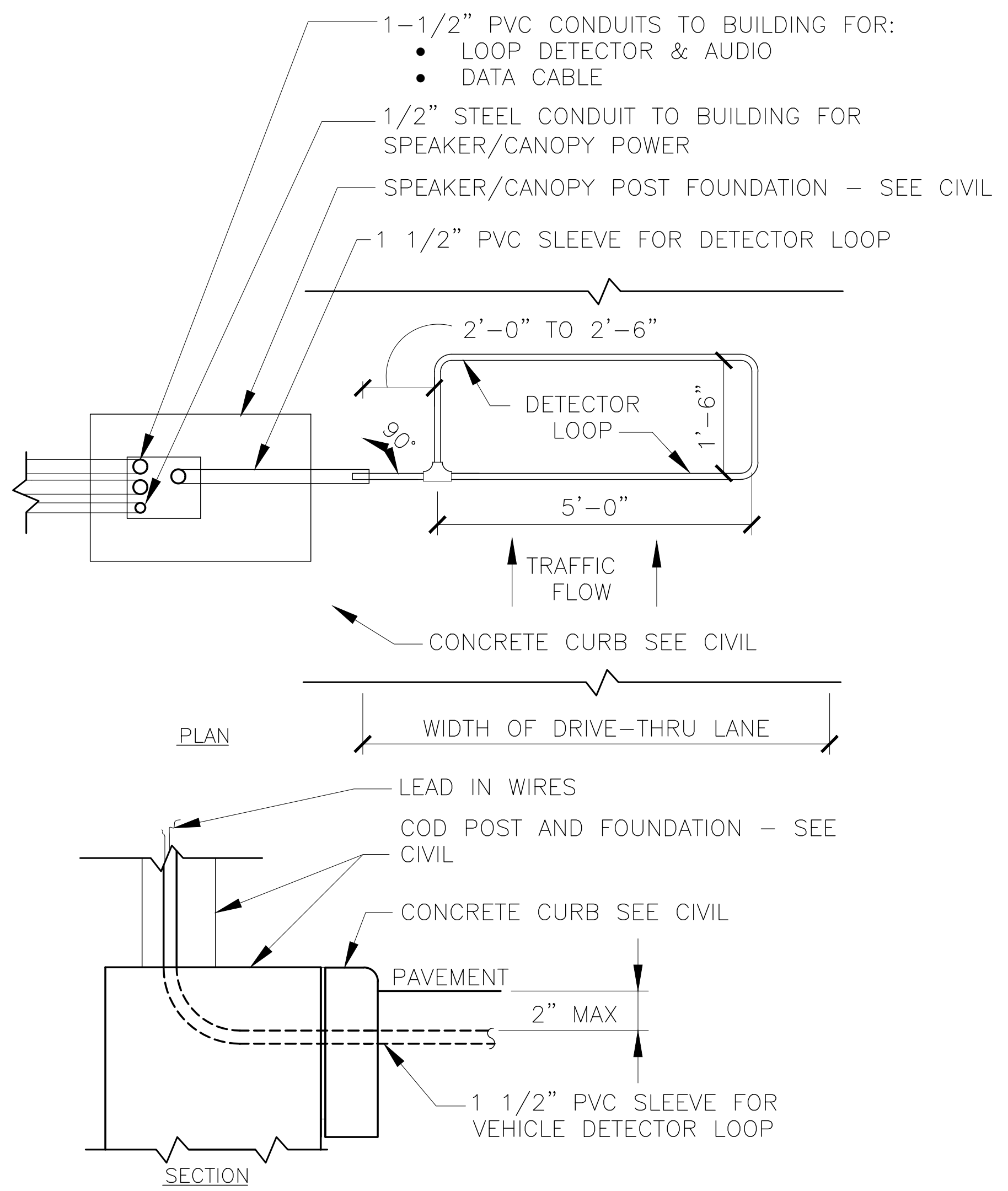

TERMINATE ON SUPPLIED GROUNDING LUG INSIDE EQUIPMENT
GROUND BUSHING
EQUIPMENT GROUNDING CONDUCTOR
GROUNDING STRAP
CONDUIT
BOTTOM PANEL OF HVAC UNIT (TYPICAL)

## 4 HVAC GROUNDING DETAIL
E-4.0 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

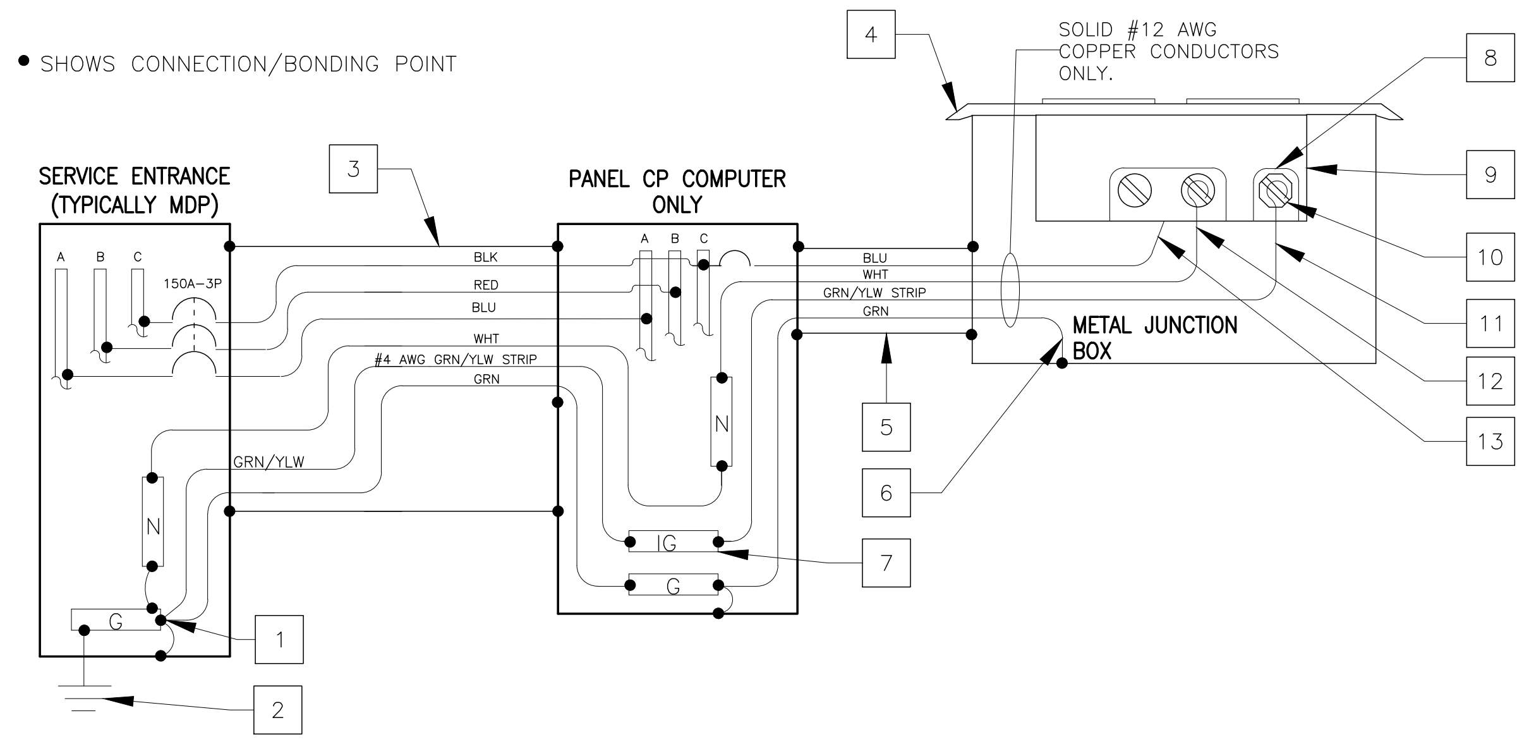

1-1/2" PVC CONDUITS TO BUILDING FOR:
• LOOP DETECTOR & AUDIO
• DATA CABLE
1/2" STEEL CONDUIT TO BUILDING FOR SPEAKER/CANOPY POWER
SPEAKER/CANOPY POST FOUNDATION – SEE CIVIL
1 1/2" PVC SLEEVE FOR DETECTOR LOOP
2'-0" TO 2'-6"
90°
DETECTOR LOOP
1'-6"
5'-0"
TRAFFIC FLOW
CONCRETE CURB SEE CIVIL
PLAN
WIDTH OF DRIVE-THRU LANE
LEAD IN WIRES
COD POST AND FOUNDATION – SEE CIVIL
CONCRETE CURB SEE CIVIL
PAVEMENT
2" MAX
1 1/2" PVC SLEEVE FOR VEHICLE DETECTOR LOOP
SECTION

A – C.O.D. DETECTOR LOOP

## 2 DETECTOR LOOP DETAILS
E-4.0 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

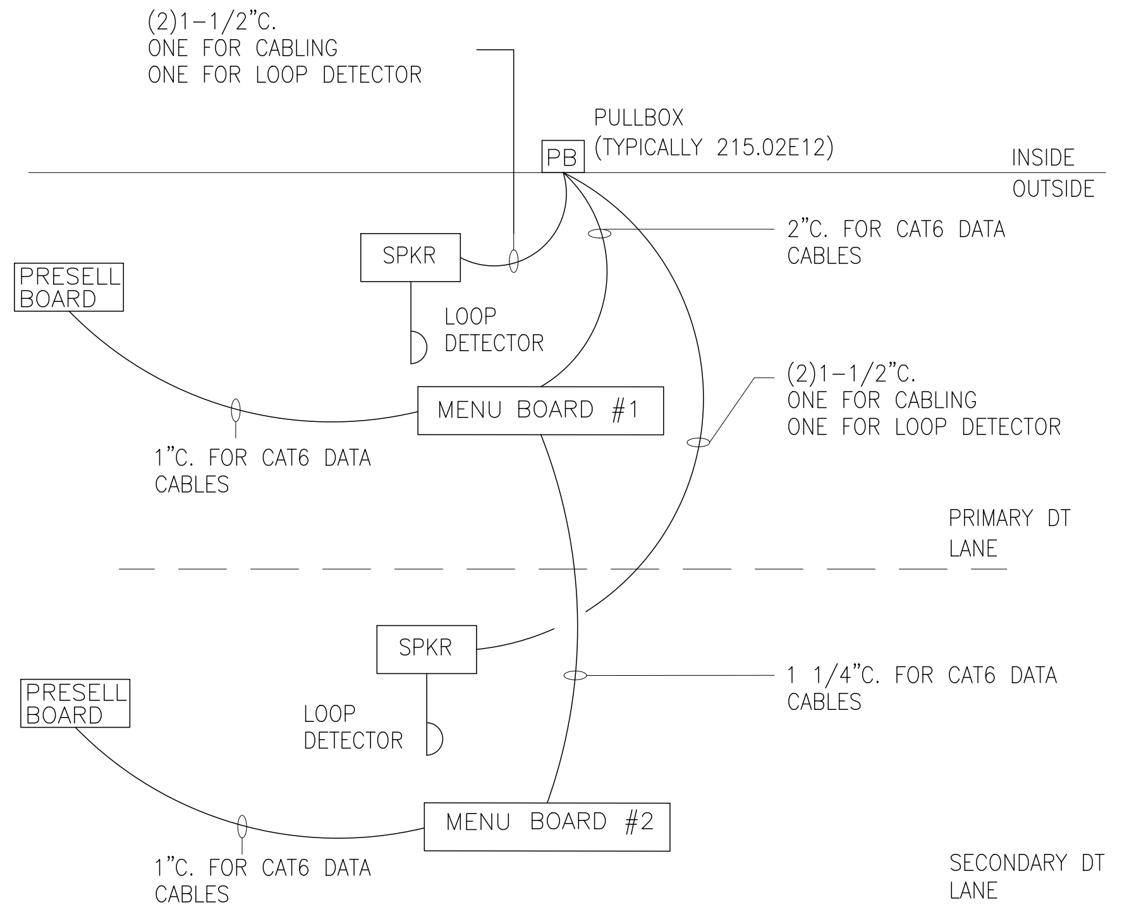
1. ALL P.O.S. EQUIPMENT (COMPUTERS,PRINTERS,MONITORS KVS, MODEM, HUB & COD) SHALL BE POWERED FROM THE COMPUTER PANEL.

   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.

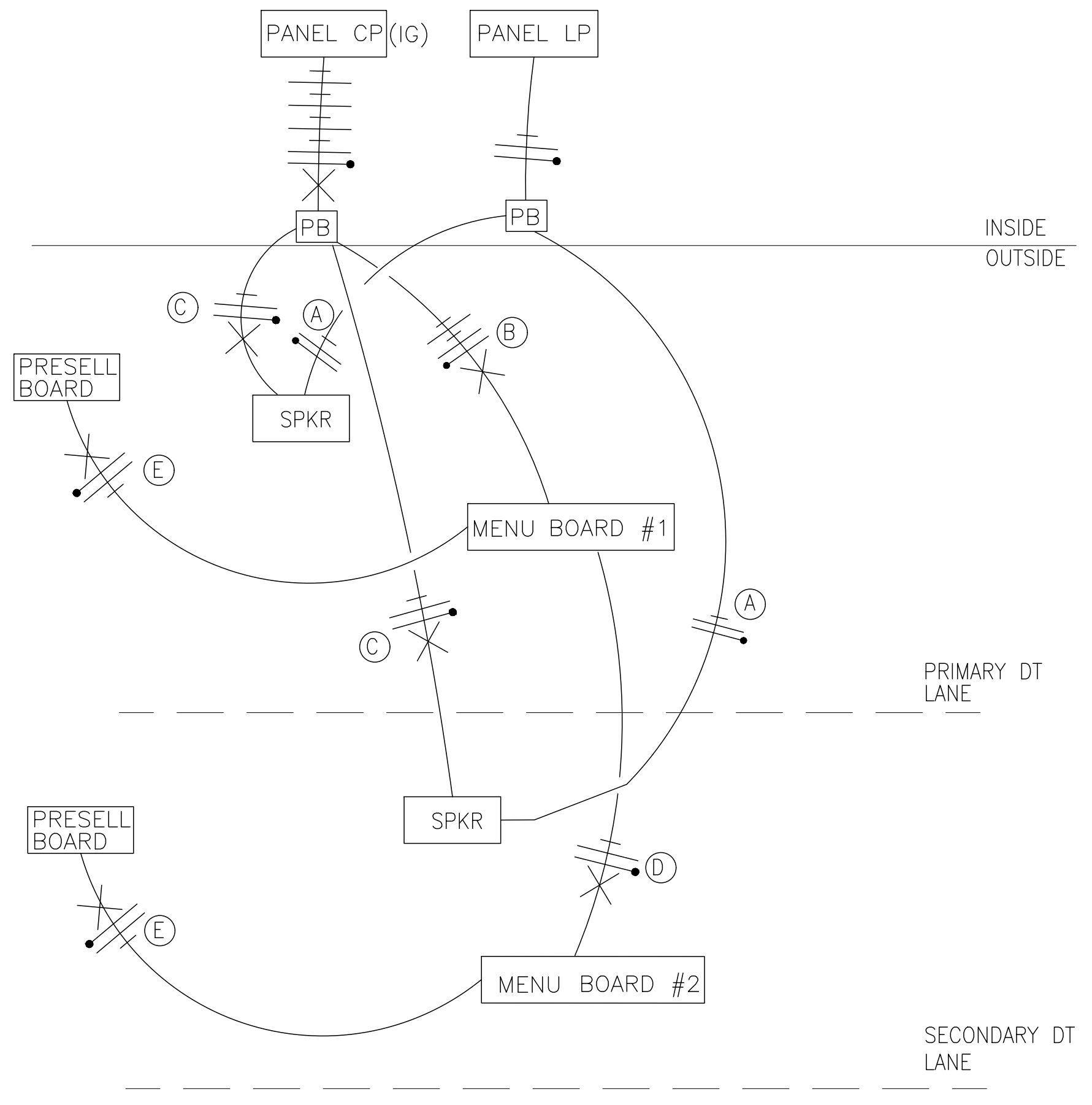
### KEY NOTES

| | |
|---|---|
| 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 POS & COD ISOLATED GROUND/DEDICATED CIRCUIT
E-4.0 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.

Ⓐ 2#12 & 1#12 GND. TO LP-1 FOR COD CANOPY LIGHTING.

Ⓑ 4#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.

Ⓒ 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.

Ⓓ 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.

Ⓔ 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 |
|---|---|---|---|

2/20/26

PREPARED BY:
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PREPARED FOR:
**McDonald's USA, LLC**

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DRAWN BY
DA

STD ISSUE DATE
2025 05

REVIEWED BY
CS

DATE ISSUED
10-16-2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

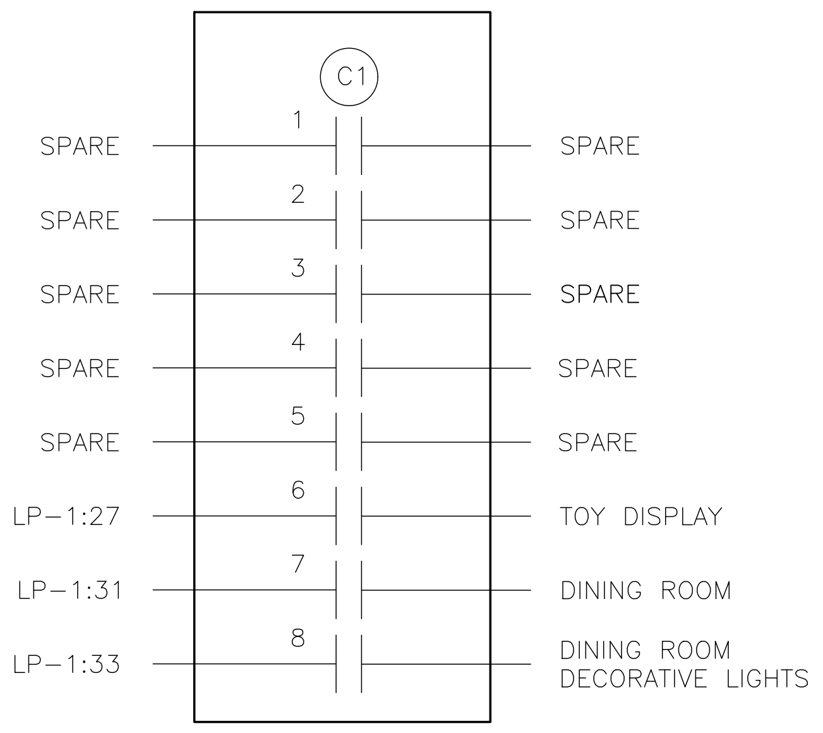
NSN: 8043
L/C: 024-0281

SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233-9756

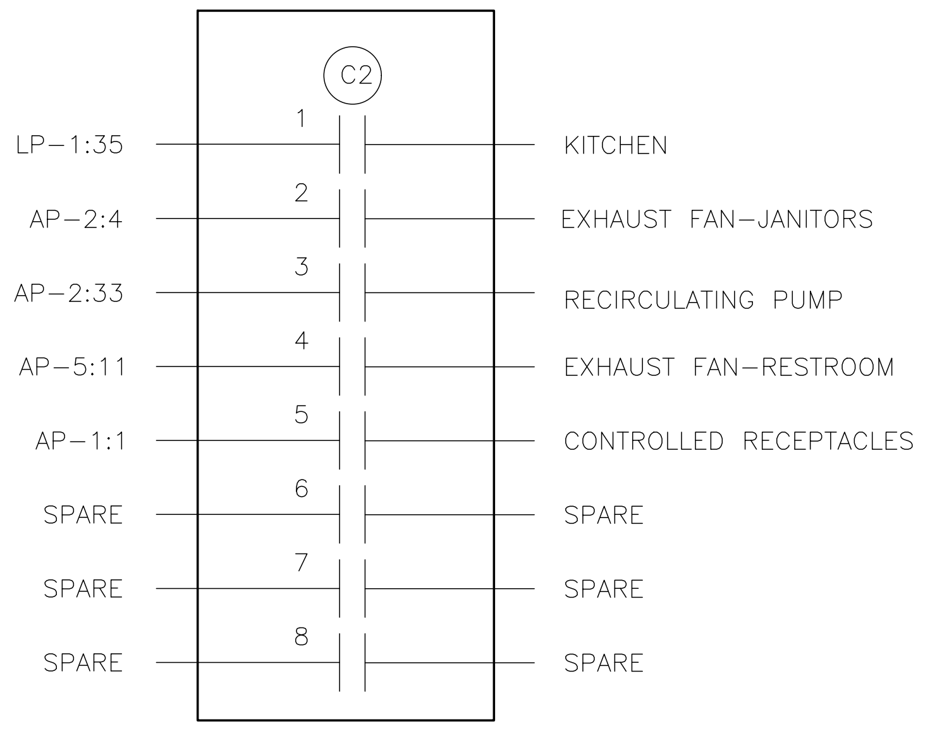
SHEET NO.
024-0281.00.0
E4.0
WIRING DETAILS

# LIGHTING CONTROL SYSTEM

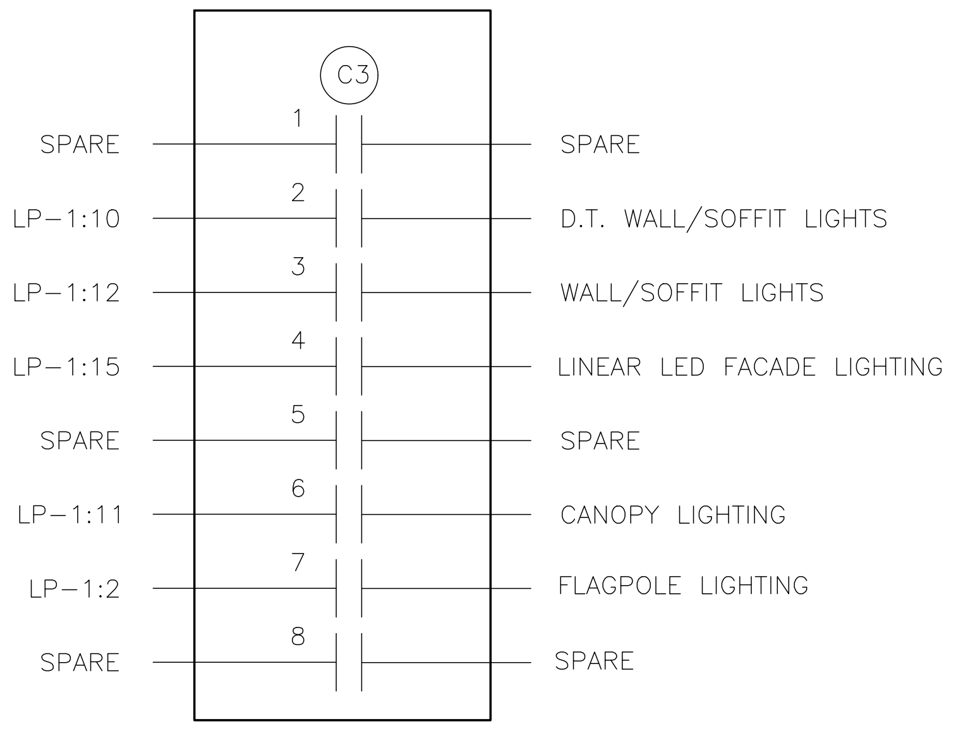
### INTERIOR CUSTOMER LIGHTING



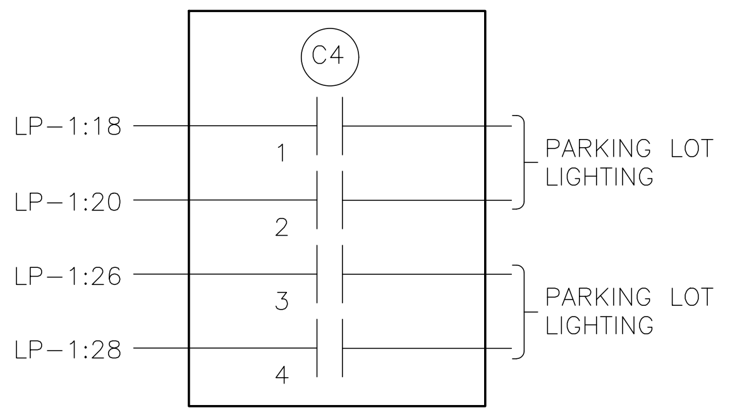
### INTERIOR CREW LIGHTING


C2
1 LP–1:35 — KITCHEN
2 AP–2:4 — EXHAUST FAN–JANITORS
3 AP–2:33 — RECIRCULATING PUMP
4 AP–5:11 — EXHAUST FAN–RESTROOM
5 AP–1:1 — CONTROLLED RECEPTACLES
6 SPARE — SPARE
7 SPARE — SPARE
8 SPARE — SPARE

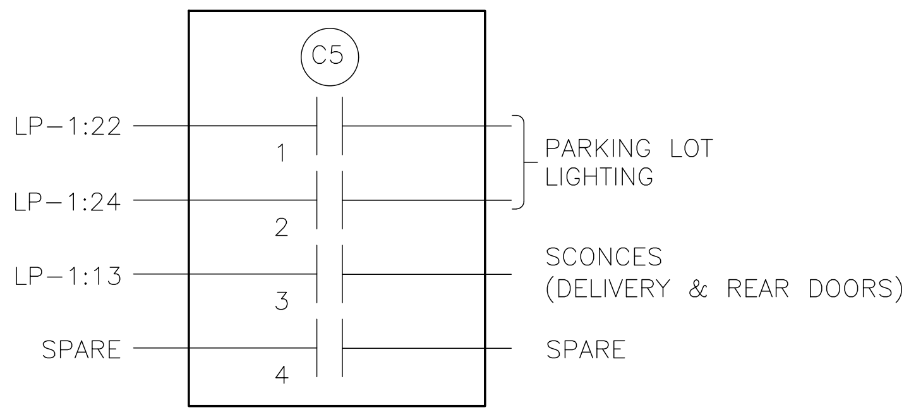
### BUILDING FACADE


C3
1 SPARE — SPARE
2 LP–1:10 — D.T. WALL/SOFFIT LIGHTS
3 LP–1:12 — WALL/SOFFIT LIGHTS
4 LP–1:15 — LINEAR LED FACADE LIGHTING
5 SPARE — SPARE
6 LP–1:11 — CANOPY LIGHTING
7 LP–1:2 — FLAGPOLE LIGHTING
8 SPARE — SPARE

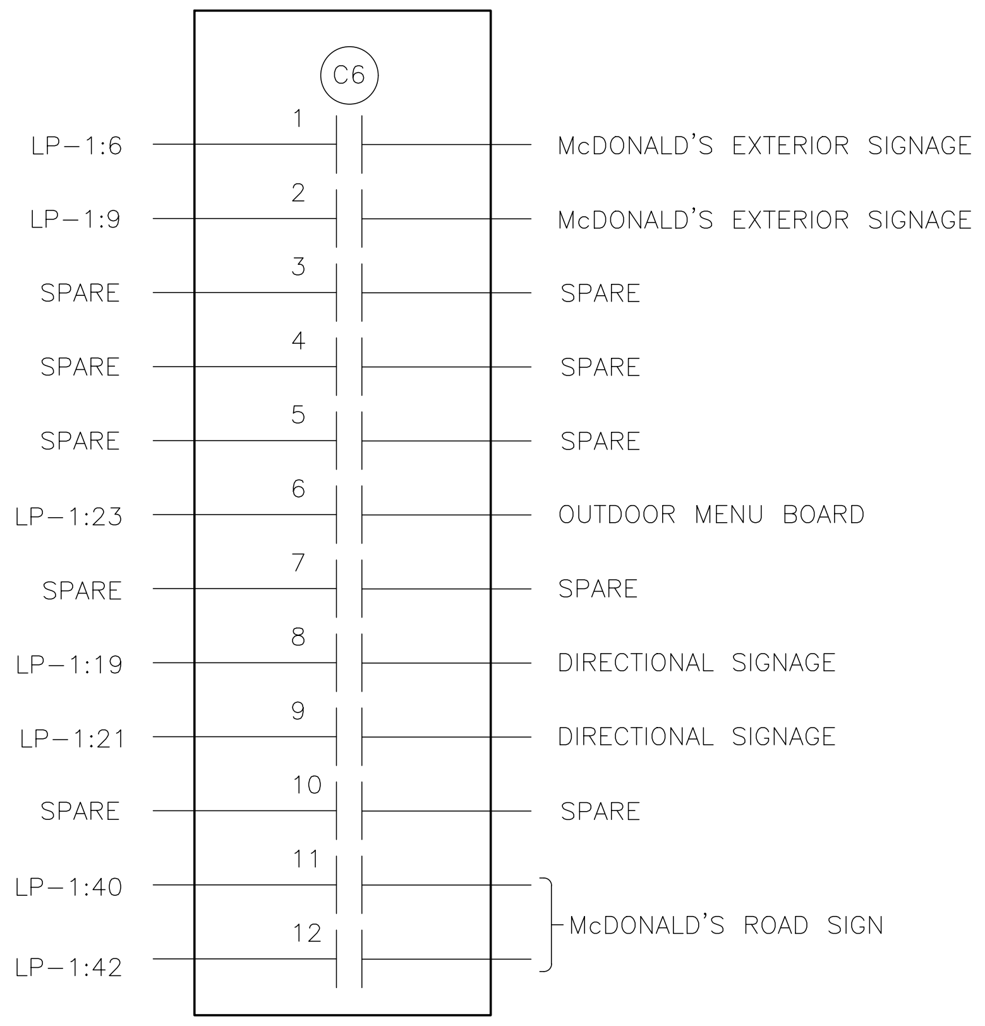
### EXTERIOR LIGHTING



### EXTERIOR LIGHTING



### EXTERIOR SIGNAGE


C6
1 LP–1:6 — McDONALD'S EXTERIOR SIGNAGE
2 LP–1:9 — McDONALD'S EXTERIOR SIGNAGE
3 SPARE — SPARE
4 SPARE — SPARE
5 SPARE — SPARE
6 LP–1:23 — OUTDOOR MENU BOARD
7 SPARE — SPARE
8 LP–1:19 — DIRECTIONAL SIGNAGE
9 LP–1:21 — DIRECTIONAL SIGNAGE
10 SPARE — SPARE
11 LP–1:40
12 LP–1:42
McDONALD'S ROAD SIGN

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 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 NOTES

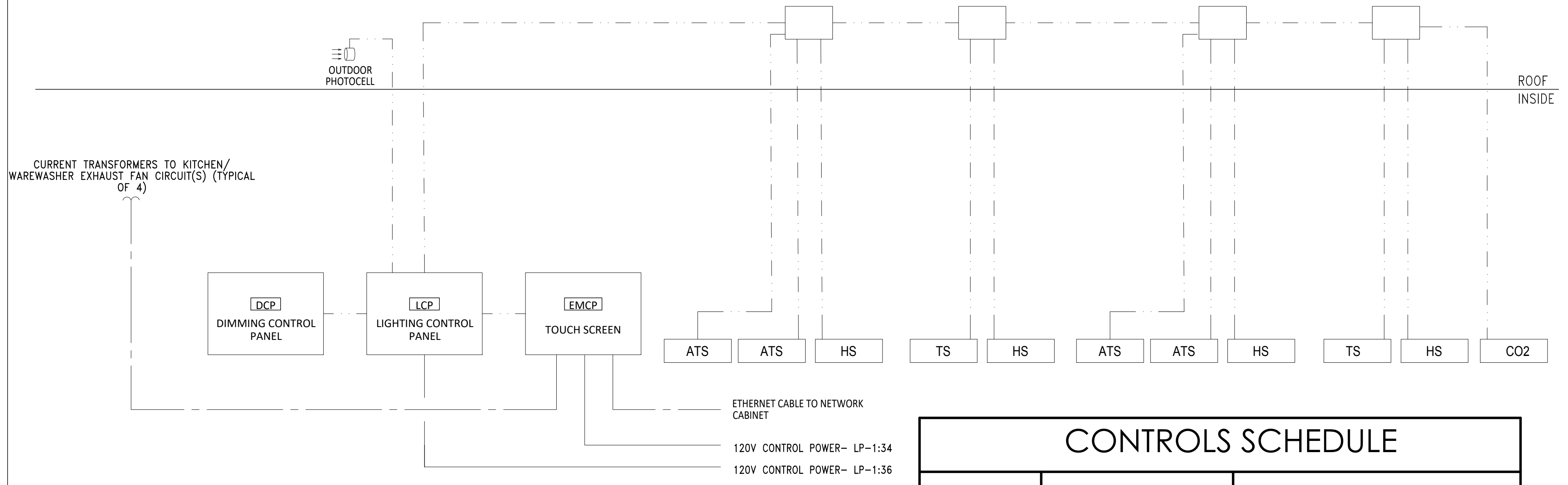
BAS1. THE DIAGRAM SHOWN ABOVE IS SCHEMATIC IN NATURE AND SHOWS THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF THE BUILDING AUTOMATION SYSTEM. EXACT EQUIPMENT REQUIREMENTS AND QUANTITIES WILL VARY PER SITE. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT EQUIPMENT AND INSTALLATION REQUIREMENTS 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.

# BUILDING AUTOMATION SYSTEM

INSTALLATION & TECHNICAL ASSISTANCE INFORMATION:
LENNOX BAS: McD@CCBAC.com


OUTDOOR PHOTOCELL
ROOF
INSIDE
CURRENT TRANSFORMERS TO KITCHEN/ WAREWASHER EXHAUST FAN CIRCUIT(S) (TYPICAL OF 4)
DCP
DIMMING CONTROL PANEL
LCP
LIGHTING CONTROL PANEL
EMCP
TOUCH SCREEN
ATS
ATS
HS
TS
HS
ATS
ATS
HS
TS
HS
CO2
ETHERNET CABLE TO NETWORK CABINET
120V CONTROL POWER– LP–1:34
120V CONTROL POWER– LP–1:36

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 |

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | TPF |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2/20/26

PREPARED BY:
CORE STATES GROUP
212 SE 34th. Street, Suite 2
Bentonville, AR 72712
479.877.3465
www.core-states.com

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY
DA
STD ISSUE DATE
2025 05
REVIEWED BY
CS
DATE ISSUED
10–16–2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD
DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH
NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
E4.1
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 | | | | BRKR | TRIP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | | REQ | POLES | NO. | NO. | POLES | REQ | DESCRIPTION | A | B | 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 | |
| | | 0 | Spare | 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 | 4804 |
| | | | | | | | | | | Connect Amps | | 34 | 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 | | | | BRKR | TRP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | DESCRIPTION | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | 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 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 | | | | BRKR | TRP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | DESCRIPTION | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 1608 | | | Ice machine 1400LB | H | 20A-3 | 1 | 2 | 20A-1 | | Spare | 0 | | |
| | 1608 | | \| | \| | \| | 3 | 4 | 20A-1 | | Janitors EF | | 100 | |
| | | 1608 | \| | \| | \| | 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 | |
| | | 204 | Crew Smart Lockers | G | 20A-1 | 11 | 12 | \| | \| | \| | | | 2496 |
| 480 | | | Water Heater, Gas | L | 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 | 14188 | 15380 | 17030 |
| | | | | | | | | | | Connect Amps | | 129 | Amps |
| | | | | | | | | | | Demand Amps | | 86 | 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 | | | | BRKR | TRP | CCT | CCT | TRIP- | BRKR | | WATTS | | |
| A | B | C | DESCRIPTION | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | 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 | |
| | | | Space | | | 29 | 30 | | | Space | | | 0 |
| 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 |

## SEE SHEET E3.1 FOR GENERAL ELECTRICAL NOTES

BREAKER MODIFICATIONS:

G – GFCI PERSONNEL PROTECTION (5MA)
HID – HID & SWD RATED
L – HANDLE LOCK
H – HACR RATED
S – SWITCH DUTY RATED
SHT – SHUNT TRIP

TOTAL BUILDING 208Y/120V, 3 PHASE, 4–WIRE GENERAL SERVICE POWER BASED ON NEC 220.88 FOR A NOT "ALL ELECTRIC" NEW RESTAURANT.

## SPLIT UTILITIES CALC

| NEC Optional Method | (kW) | (A) |
|---|---|---|
| 1. Continuous Loads: | 36 | 100 |
| 2. Kitchen Loads: | 342 | 951 |
| 3. HVAC Loads: | 80 | 223 |
| 4. Cooling: | 0 | 0 |
| 5. Total (1+2+3+4): | 459 | 1273 |
| 6. Base Value (See 220.88): | 325 | 902 |
| 7. Amount Over Base Value (5-6): | 134 | 371 |
| 8. Demand Factor: | 0.45 | |
| 9. Adjusted Value (8*7): | 60 | 167 |
| 10. Adjusted Base Value (220.88): | 262.5 | 729 |
| 11. Demand (9+10): | 323 | **896** |

| MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1 | | | | | | PANEL AP-4 | | | | 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | | BRKR | TRP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | DESCRIPTION | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | 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 | | | | BRKR | TRP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | DESCRIPTION | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | 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 | Univeral 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 | | |
| | 0 | | Spare | | 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 | | | \| | \| | \| | 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 | | | Bulk Oil System | G | 20A-1 | 25 | 26 | 20A-1 | G | Pie Display | 564 | | |
| | 2620 | | Universal Radiant Toaster | G | 30A-2 | 27 | 28 | 20A-1 | G | Optimized Breakfast Table | | 600 | |
| | | 2620 | \| | \| | \| | 29 | 30 | 20A-1 | | DCO-Muzak satellite system | | | 120 |
| 3531 | | | Warewasher 1of2 | G | 40A-3 | 31 | 32 | 20A-1 | | Clg. Mt window recepts | 540 | | |
| | 3531 | | \| | \| | \| | 33 | 34 | 20A-2 | G | Humidified holding cabinet | | 947 | |
| | | 3531 | \| | \| | \| | 35 | 36 | \| | \| | \| | | | 947 |
| 2678 | | | Warewasher 2of2 | G | 30A-3 | 37 | 38 | 25A-2 | H | Remote Condensing Unit | 1831 | | |
| | 2678 | | \| | \| | \| | 39 | 40 | \| | \| | \| | | 1831 | |
| | | 2678 | \| | \| | \| | 41 | 42 | 20A-1 | G | Butter Warmer | | | 60 |
| | | | | | | | | | | Total Connect | 17969 | 18661 | 16605 |
| | | | | | | | | | | Connect Amps | | 148 | Amps |
| | | | | | | | | | | Demand Amps | | 96 | Amps |

| MLO, AIC: NOTES D6,D7,&D8, Mounting: FLUSH, NEMA | | | | | | PANEL AP-6 | | | | 225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | | BRKR | TRP | CCT | CCT | TRIP | BRKR | | WATTS | | |
| A | B | C | DESCRIPTION | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 1092 | | | Hand Dryer | L,G | 20A-1 | 1 | 2 | 60A-2 | | Unit AC-1 | 4212 | | |
| | 1092 | | Hand Dryer | L,G | 20A-1 | 3 | 4 | \| | | \| | | 4212 | |
| | | 0 | Spare | L,G | 20A-1 | 5 | 6 | 60A-2 | | Unit AC-2 | | | 4212 |
| 0 | | | Spare | L,G | 20A-1 | 7 | 8 | \| | | \| | 4212 | | |
| | 125 | | Cooler Evap | H | 15A-2 | 9 | 10 | 20A-1 | | Unit AC-3 | | 1200 | |
| | | 125 | \| | \| | \| | 11 | 12 | 20A-1 | | Unit AC-4 | | | 1200 |
| 1248 | | | Freezer Evap | H | 15A-2 | 13 | 14 | 20A-1 | | Unit AC-5 | 660 | | |
| | 1248 | | \| | \| | \| | 15 | 16 | 20A-1 | | Spare | | 0 | |
| | | 0 | Spare | | 20A-1 | 17 | 18 | 20A-1 | | Spare | | | 0 |
| 0 | | | Spare | | 20A-1 | 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 | 11424 | 7877 | 5537 |
| | | | | | | | | | | Connect Amps | | 69 | Amps |
| | | | | | | | | | | Demand Amps | | 47 | Amps |

| 1000A MCB, NOTES D6, D7, & D8, Mounting: Free Standing, NEMA 1 | | | | | | PANEL MDP | | | | 208Y/120 VAC, 3PH, 4W | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | | BRKR | TRP | CCT | CCT | TRP | BRKR | | WATTS | | |
| A | B | C | DESCRIPTION | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | C |
| 2062 | 5409 | 4804 | Lighting Panel 1; LP-1 | | 225A-3 | 1 | 2 | 225A-3 | | Appliance Panel; AP-1 | 16290 | 13950 | 17976 |
| 14188 | 15380 | 17030 | Appliance Panel; AP-2 | | 225A-3 | 3 | 4 | 225A-3 | SHT | Appliance Panel; AP-3 | 26472 | 26472 | 26472 |
| 11760 | 11760 | 11760 | *Roof Top Unit 1 | H | 110A-3 | 5 | 6 | 150A-3 | L | CP Panel | 8430 | 6384 | 8760 |
| 11424 | 7877 | 5537 | Appliance Panel; AP-6 | | 225A-3 | 7 | 8 | 70A-3 | H | *Roof Top Unit 3 | 7680 | 7680 | 7680 |
| 17969 | 18661 | 16605 | 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 | 50A-3 | H | *Roof Top Unit 2 | 3840 | 3840 | 3840 |
| 0 | 0 | 0 | Space | | | 13 | 14 | | | Space | | | |
| 2688 | 2688 | 2688 | Remote Cond Unit | H | 40A-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 | 156183 | 153813 | 148580 |
| | | | | | | | | | | Connect Amps | | 1273 | Amps |

## 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

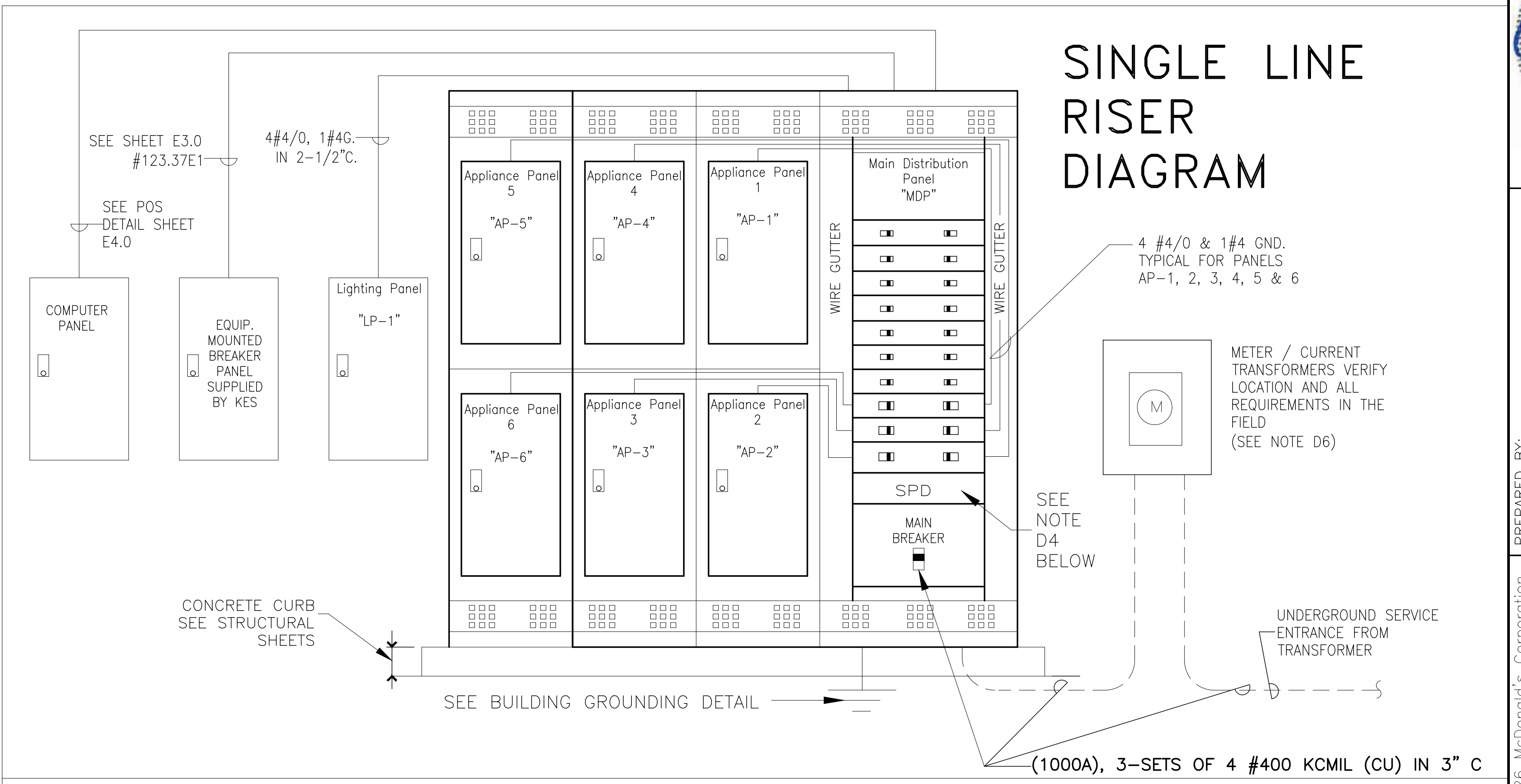
SPD INTEGRAL: I–LINE SERIES,
(208Y/120V, 3Ø)

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. CONTACT UTILITY/PM/GC/EC AS REQUIRED.

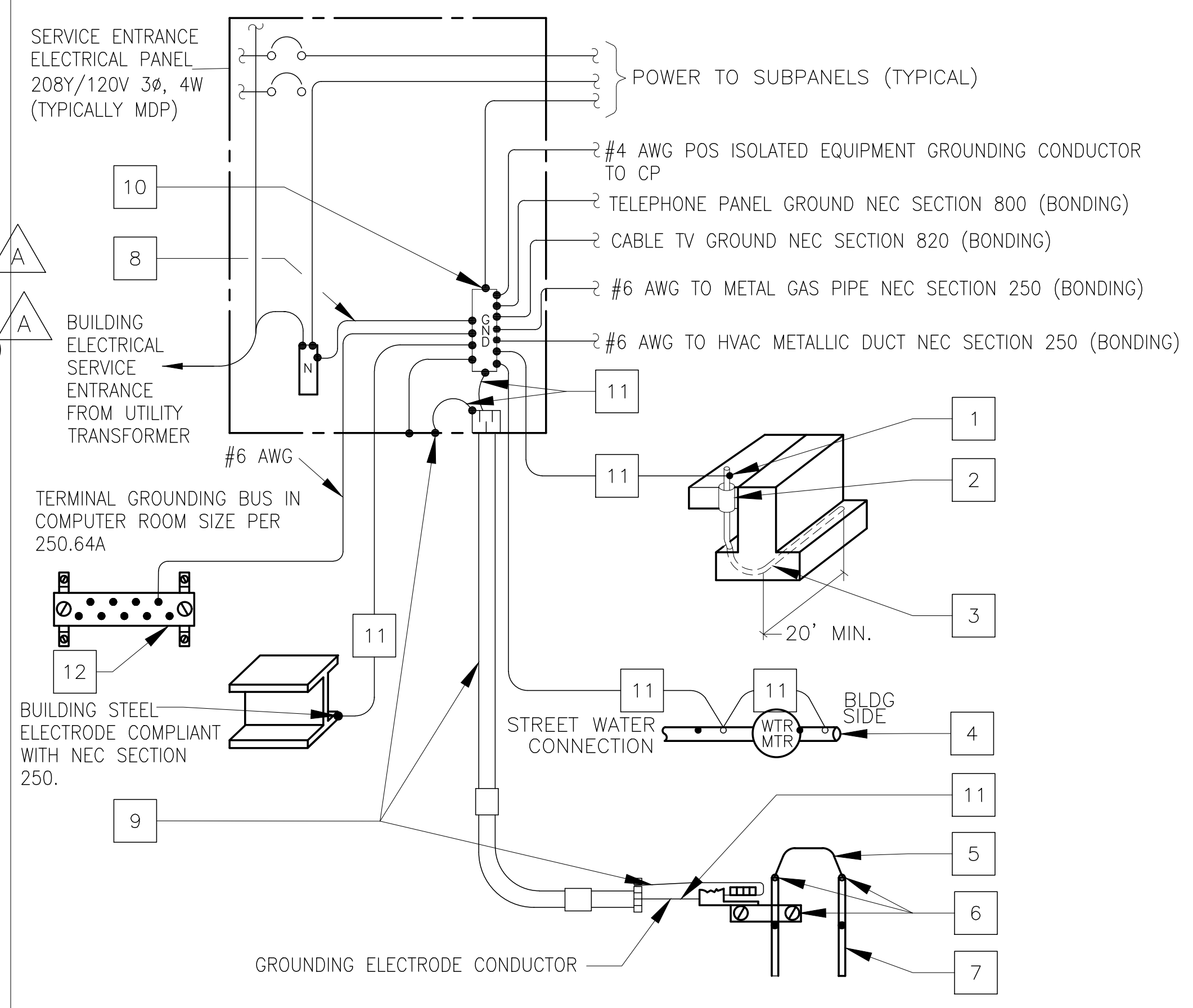
D7. BRANCH BREAKERS IN ALL LP, AP AND (CP IF USED) PANELS SHALL HAVE A NEMA SYMMETRICAL RMS RATING OF 10,000 AMPS. ALL CIRCUIT BREAKERS IN AP, LP AND CP PANELS SHALL BE SERIES RATED WITH THE CIRCUIT BREAKERS IN PANEL MDP SO THAT ALL CIRCUIT BREAKERS IN ALL BRANCH PANELBOARDS ARE PROTECTED AGAINST THE MAXIMUM FAULT CURRENT AVAILABLE AT THE MAIN SERVICE DISCONNECT. NO DESIGN CHANGES SHALL BE MADE TO THE DISTRIBUTION SYSTEM WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL ELECTRICAL ENGINEER OF RECORD. FOR A SERIES RATED SYSTEM USING PANEL BOARDS MANUFACTURED BY SQUARE–D USE A FULLY RATED MAIN BREAKER (SM–RGC) AS WELL AS OTHER FULLY RATED BREAKERS IN THE MDP (QG, FH, RGC) AND SERIES RATED BREAKERS (QO (B), QO (B) VH) IN THE SUB–BREAKERS.

| 150 MLO AIC: SEE NOTES D6, D7, & D8, Mounting: Flush | | | | | | COMPUTER PANEL | | | | 150A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WATTS | | | | BRKR | TRP | CCT | CCT | TRIP- | BRKR | | WATTS | | |
| A | B | C | DESCRIPTION | REQ | PLS | NO. | NO. | PLS | REQ | DESCRIPTION | A | B | 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 | Spare | | | 0 |
| 1860 | | | Exterior Menu Boards/Media Player | L | 20A-1 | 25 | 26 | 20A-1 | G,L | Kvs Mon Prep | 360 | | |
| | 0 | | Spare | 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 | L | 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 | 6384 | 8760 |
| | | | | | | | | | | Connect Amps | | 65 | Amps |
| | | | | | | | | | | Demand Amps | | 82 | Amps |

## SINGLE LINE RISER DIAGRAM


SEE SHEET E3.0
#4/0, 1#4G IN 2–1/2"C.
SEE POS DETAIL SHEET E4.0
COMPUTER PANEL
EQUIP. MOUNTED BREAKER PANEL SUPPLIED BY KES
Lighting Panel "LP-1"
Appliance Panel 5 "AP-5"
Appliance Panel 4 "AP-4"
Appliance Panel 1 "AP-1"
Appliance Panel 6 "AP-6"
Appliance Panel 3 "AP-3"
Appliance Panel 2 "AP-2"
WIRE GUTTER
WIRE GUTTER
Main Distribution Panel "MDP"
SPD
MAIN BREAKER
4 #4/0 & 1#4 GND. TYPICAL FOR PANELS AP-1, 2, 3, 4, 5 & 6
METER / CURRENT TRANSFORMERS VERIFY LOCATION AND ALL REQUIREMENTS IN THE FIELD (SEE NOTE D6)
SEE NOTE D4 BELOW
CONCRETE CURB SEE STRUCTURAL SHEETS
SEE BUILDING GROUNDING DETAIL
UNDERGROUND SERVICE ENTRANCE FROM TRANSFORMER
(1000A), 3–SETS OF 4 #400 KCMIL (CU) IN 3" C

## BUILDING ELECTRICAL GROUNDING DETAIL


SERVICE ENTRANCE ELECTRICAL PANEL 208Y/120V 3ø, 4W (TYPICALLY MDP)
POWER TO SUBPANELS (TYPICAL)
#4 AWG POS ISOLATED EQUIPMENT GROUNDING CONDUCTOR TO CP
TELEPHONE PANEL GROUND NEC SECTION 800 (BONDING)
CABLE TV GROUND NEC SECTION 820 (BONDING)
#6 AWG TO METAL GAS PIPE NEC SECTION 250 (BONDING)
#6 AWG TO HVAC METALLIC DUCT NEC SECTION 250 (BONDING)
BUILDING ELECTRICAL SERVICE ENTRANCE FROM UTILITY TRANSFORMER
TERMINAL GROUNDING BUS IN COMPUTER ROOM SIZE PER 250.64A
BUILDING STEEL ELECTRODE COMPLIANT WITH NEC SECTION 250.
#6 AWG
20' MIN.
STREET WATER CONNECTION
WTR MTR
BLDG SIDE
GROUNDING ELECTRODE CONDUCTOR
1
2
3
4
5
6
7
8
9
10
11
12

### 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 | 1000A | 1200A |
|---|---|---|
| 3/0 CU | 3/0 CU | 4/0 CU |

● SHOWS CONNECTION/BONDING POINT

12 TERMINAL GROUNDING BUS AT 90"AFF. HARGER #GBI14212D.

D8. PANELBOARD SUPPLIER SHALL MARK CLEARLY & LEGIBLY ON THE DOORS OF ALL PANELS. DOORS OF ALL PANELS "CAUTION – SERIES RATED SYSTEM ______A AVAILABLE. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED."

D9. ALL BREAKERS SHALL BE THE BOLT–ON TYPE. ALL CIRCUIT BREAKERS SHALL BE CAPABLE OF BEING LOCKED OUT TO COMPLY WITH OSHA REGULATION 1910.147 LOCKOUT/TAGOUT PROCEDURES.

D10. BRANCH BREAKERS OF 2P AND 3P CONFIGURATION SHALL HAVE A COMMON TRIP.

D11. ALL CIRCUIT BREAKERS USED TO SWITCH LIGHT FIXTURES SHALL BE APPROVED FOR THE PURPOSE AND MARKED "SWD".

D12. ALL HVAC CIRCUIT BREAKERS SHALL BE HACR TYPE. SEE TABLE ON SHEET E4.0 FOR CONDUIT AND WIRE SIZE REQUIREMENTS.

D13. PANELBOARD SUPPLIER SHALL PROVIDE ENGRAVED PLASTIC LAMINATED LABELS TO IDENTIFY ALL PANELS. LABEL FOR COMPUTER PANEL SHALL READ "COMPUTER ONLY PANEL".

D14. ALL PANELS SHALL BE PROVIDED WITH A KEY LOCK AND LATCH. EACH PANEL SHALL HAVE TWO KEYS WITH ALL PANELS KEYED ALIKE.

D15. PANELBOARD MANUFACTURER SHALL PROVIDE ARC–FLASH WARNING LABELS FOR MDP AND ALL BRANCH PANELBOARDS IN ACCORDANCE WITH NEC110.

D16. ALL RECEPTACLES IN THE KITCHEN AREA MUST HAVE GROUND FAULT CIRCUIT–INTERRUPTER PROTECTION PER NEC 210.8 (B) (2).

D17. ON PROJECTS RATED 1200 AMPS OR MORE, AND FOLLOWING NEC 2017 OR NEWER, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DATA COLLECTION INCLUDING BUT NOT LIMITED TO UTLITY TRANSFORMER DATA, CABLE LENGTHS, ETC AND COORDINATING WITH THE SWITCHBOARD SUPPLIER OR ELECTRICAL ENGINEER SO THAT AN ARC FLASH STUDY CAN BE PREFORMED. SUPPLIER SHALL SHARE THE RESULTS OF THE STUDY WITH THE ENGINEER OF RECORD SO THAT THE APPROPRIATE ARC ENERGY REDUCTION METHOD MEETING THE REQUIREMENTS ON NEC 240.87 CAN BE APPLIED. CONTRACTOR SHALL ALSO BE RESPONSIBLE TO AFFIX THE LABELS ON THE DESIGNATED EQUIPMENT PROVIDED BY THE SUPPLIER.

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 2/3/26 | CHANGING WATER HEATER AND RTUS TO GAS, DECOR UPDATES | DA |

2/20/26

PREPARED BY:
**CORE STATES** GROUP
212 SE 34th Street, Suite 2
Bentonville, AR 72712
479.877.3465
www.core-states.com

PREPARED FOR:
**McDonald's USA, LLC**

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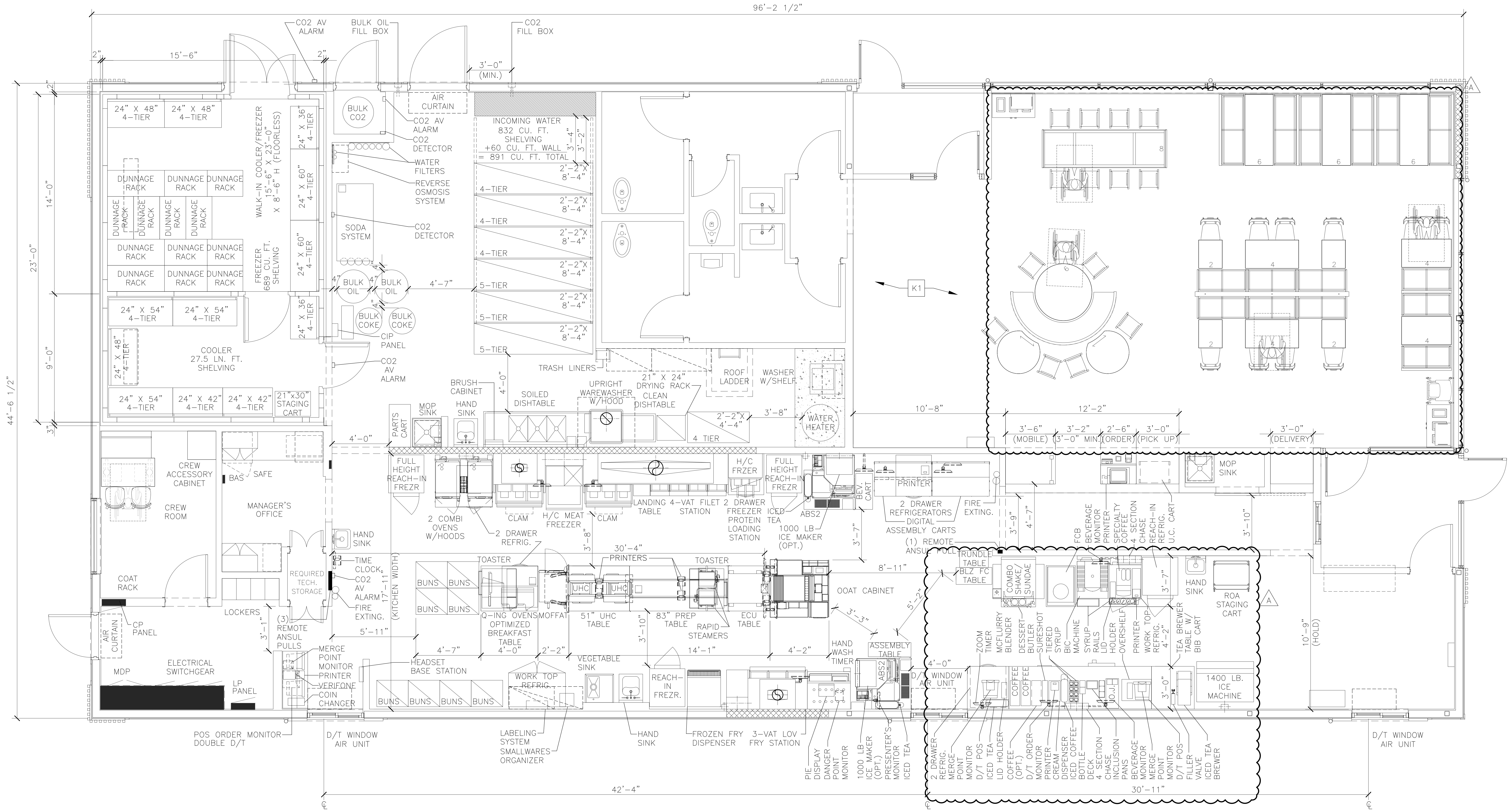
DRAWN BY DA
STD ISSUE DATE 2025 05
REVIEWED BY CS
DATE ISSUED 10–16–2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA BOONVILLE, MO. 65233–9756

SHEET NO.
024–0281.00.0
E4.2
SPLIT UTIL. DIST.



## 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 |
|---|---|---|---|
| A | 2/3/26 | CHANGING WATER HEATER AND RTU'S TO GAS, DECOR UPDATES | SO |

JOHN DALE
2/20/26

PREPARED BY:
CORE STATES GROUP
212 SE 34th. Street, Suite 2
Bentonville, AR 72712
479.877.3465
www.core-states.com

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY
DA

STD ISSUE DATE
2025 05

REVIEWED BY
CS

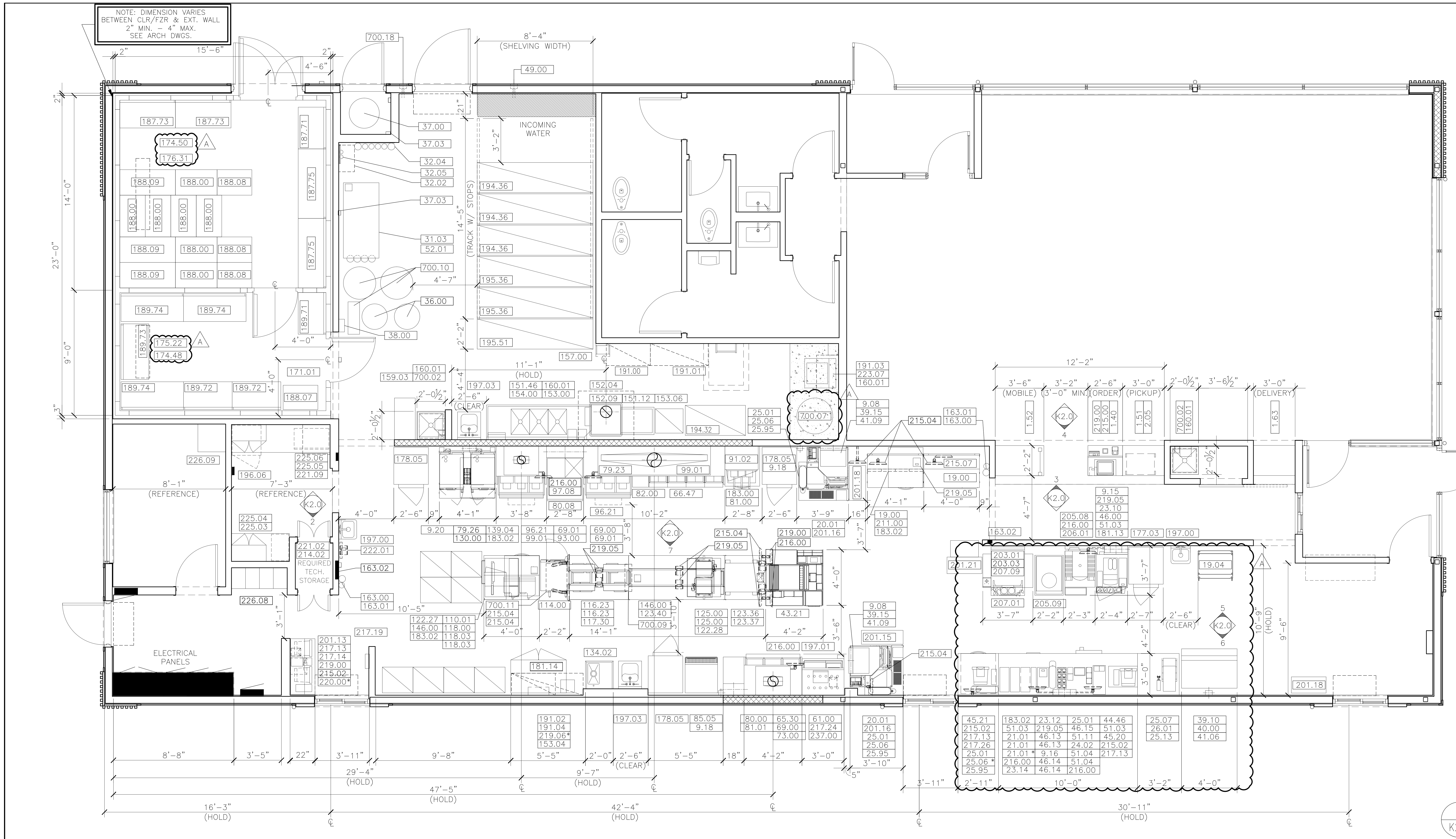
DATE ISSUED
10-16-2025

TITLE
2025 STANDARD BUILDING - BB20
4597 - WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
K1.0
KITCHEN COVER SHT



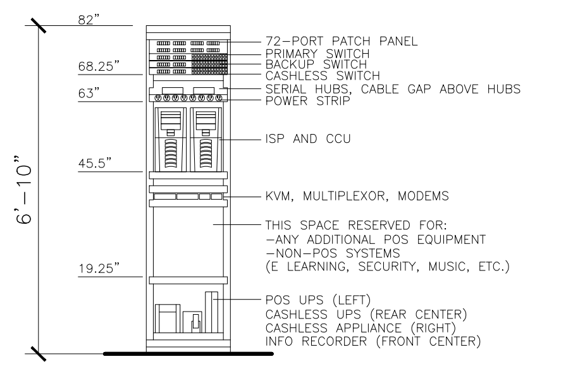
## DRAWING NOTES

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 9 ON A1.0 PRIOR TO INSTALLATION

SEE SHEET K2.1 FOR EQUIPMENT SCHEDULE

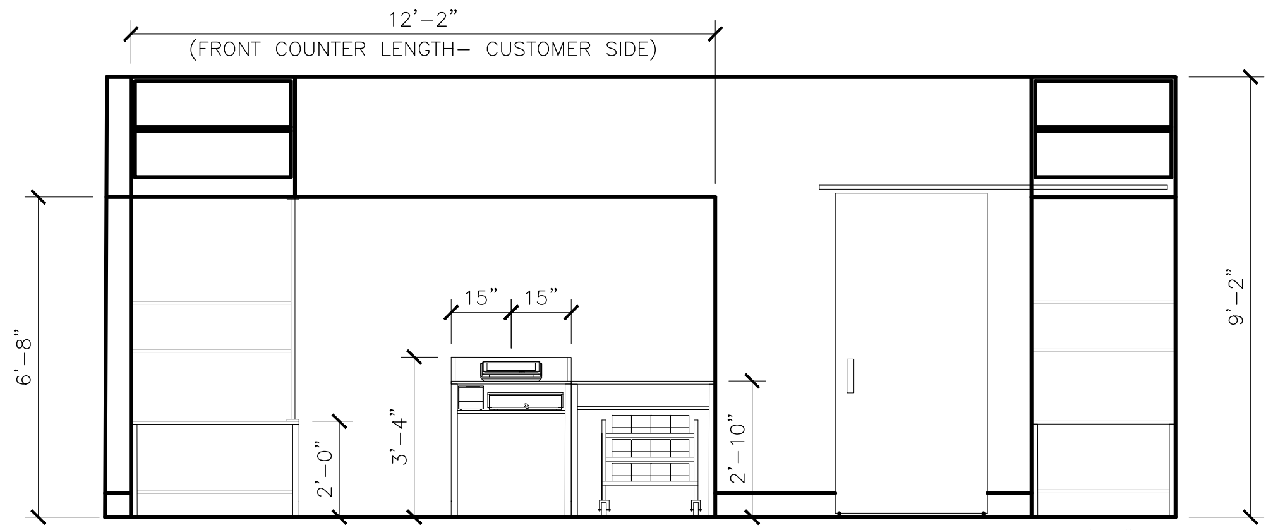
1 K2.0 KITCHEN EQUIPMENT PLAN

1/4" = 1'-0"


72-PORT PATCH PANEL
PRIMARY SWITCH
BACKUP SWITCH
CASHLESS SWITCH
SERIAL 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)
CASHLESS UPS (REAR CENTER)
CASHLESS APPLIANCE (RIGHT)
INFO RECORDER (FRONT CENTER)
6'-10"

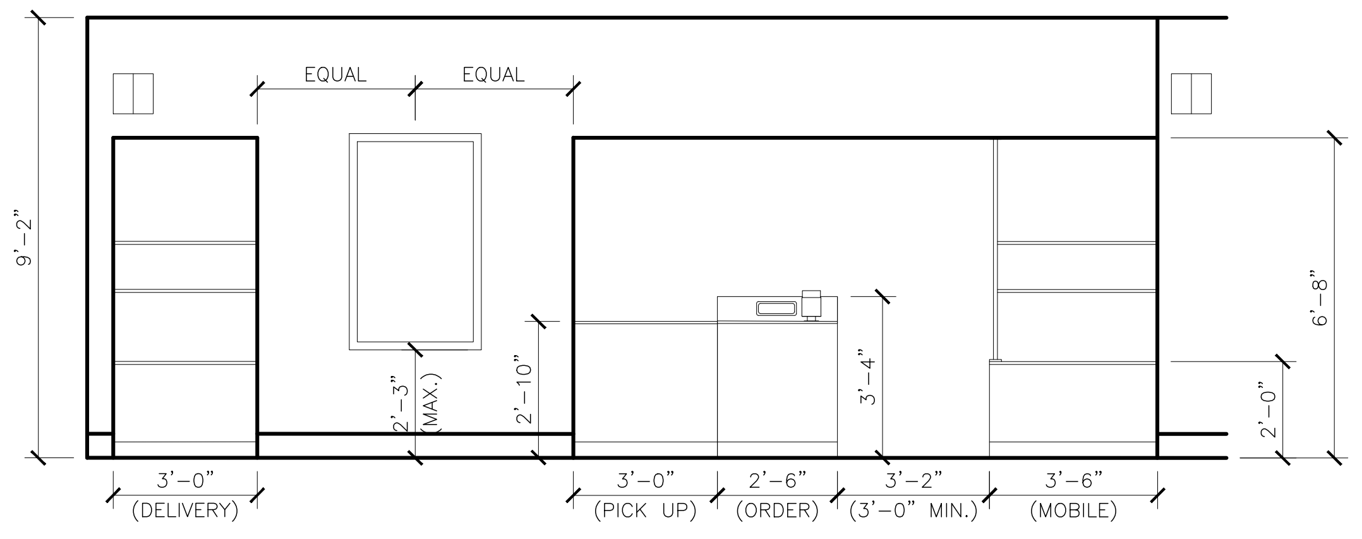
2 K2.0 COMPUTER CLOSET RACK

1/4" = 1'-0"



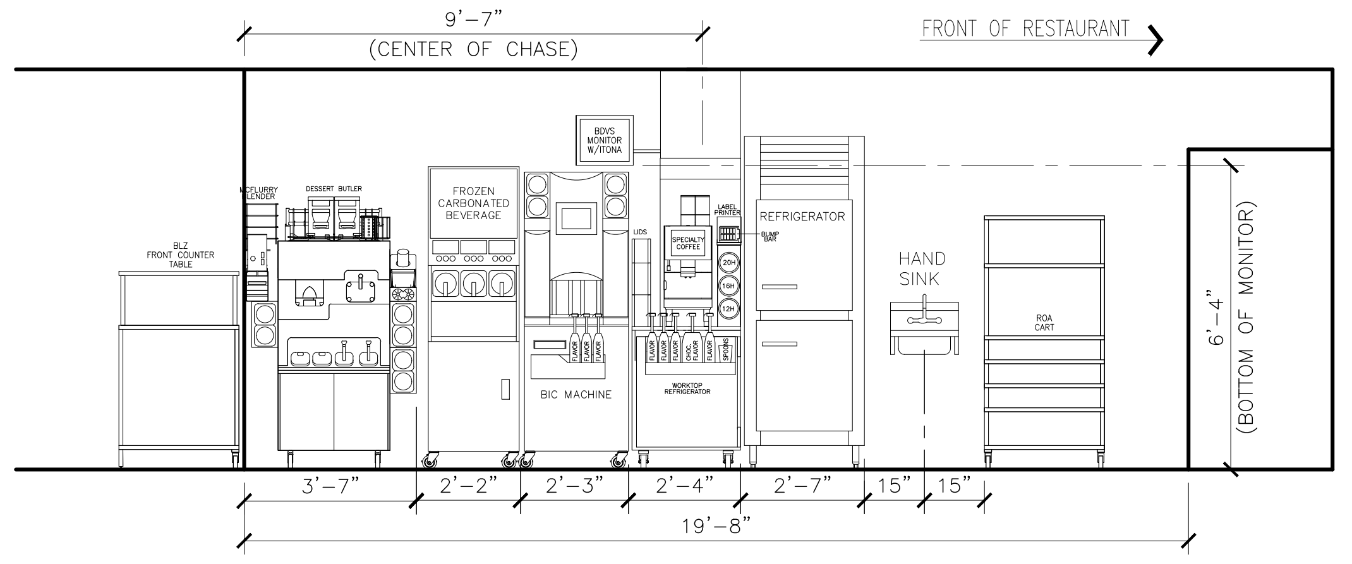
3 K2.0 FRONT COUNTER

1/4" = 1'-0"



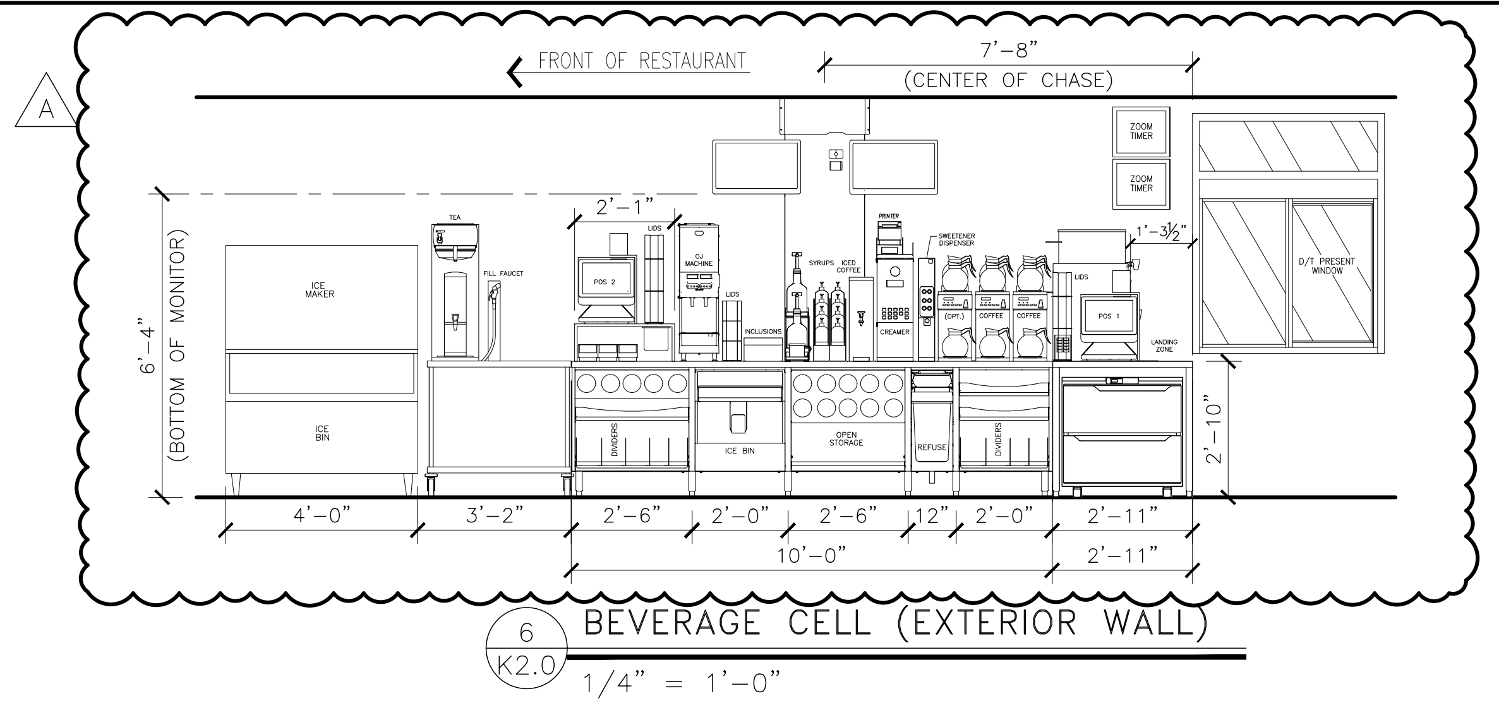
4 K2.0 FRONT COUNTER ELEVATION

1/4" = 1'-0"



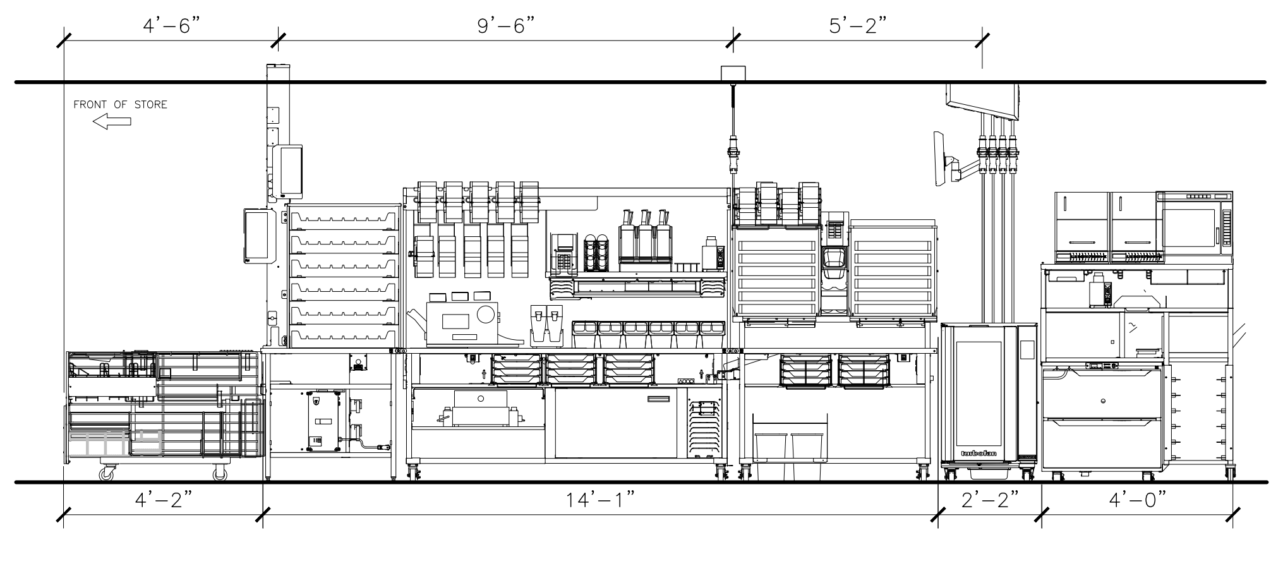
5 K2.0 BEVERAGE CELL (INTERIOR WALL)

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 |
|---|---|---|---|
| A | 2/3/26 | CHANGING WATER HEATER AND RTU'S TO GAS, DECOR UPDATES | SO |

2/20/26

PREPARED BY:
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PREPARED FOR:
**McDonald's USA, LLC**

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| DRAWN BY | DA |
| STD ISSUE DATE | 2025 05 |
| REVIEWED BY | CS |
| DATE ISSUED | 10-16-2025 |

TITLE
2025 STANDARD BUILDING - BB20
4597 - WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024-0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233-9756

SHEET NO.
024-0281.00.0
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 | |
| 23.10 | | 1 | ESPRESSO BREWER | FRANKE | FM850 | – | 4 | KES | – | |
| 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 | – | |
| 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 | |
| 36.00 | | 2 | BULK COKE | CHART INDUSTRIES | 10667511 | – | 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" | – | 2 | KES | CONCEALS WATER AND CONDENSING UNIT LINES | |
| 41.06 | | 1 | ICE MACHINE REMOTE CONDENSER – 1400 LB. | MANITOWOC | JCT–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 | | 1 | SMALL RISER SHELF – 18" TO 30" | FRANKE | 18006010 | – | 2 | KES | – | |
| 45.20 | | 1 | MODULAR BEVERAGE CABINET – 10'–0" | KES | – | – | 2 | KES | – | |
| 45.21 | | 1 | BEVERAGE CABINET – DRIVE–THRU TABLE 35" | KES | – | – | 2 | KES | – | |
| 46.00 | | 1 | CUP DISPENSER VERTICAL 3 CUP | KES | – | – | 2 | KES | – | |
| 46.13 | | 2 | SYRUP BOTTLE RACK | H&K | HK15028 | – | 2 | KES | – | |
| 46.14 | | 2 | BOTTLE DOCK | KES | 95058 | – | | KES | – | |
| 46.15 | | 1 | INCLUSION PAN HOLDER | KES | 95099 | – | | 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 | | 3 | CUP LID HOLDER 3 HIGH S/S | KES | – | – | 2 | KES | – | |
| 51.04 | | 2 | 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 | |
| 69.01 | | 2 | CAPTURE JET PLENUM – GRILL | HALTON | CJP–G | MH27607 | 2 | KES | ATTACH TO UNIVERSAL EXHAUST HOOD | |
| 73.00 | | 1 | UNIVERSAL EXHAUST HOOD 3–VAT FRYER | KES | UH–50 | MH12755 | 2 | KES | – | |
| 79.23 | | 1 | UNIVERSAL EXHAUST HOOD FULL–CLAM/4–VAT FRYER | KES | UH–122 | MH12755 | 2 | KES | – | |
| 79.26 | | 2 | VENTLESS HOOD FOR COMBI OVEN | CONVOTHERM | CONOVENT MINI 6.10 | E325060 | 2 | KES | – | |
| 80.00 | | 1 | MECHANICAL CHASE | KES | 9"x18" SGCL. | E163328 | 2 | KES | – | |
| 80.08 | | 1 | MECHANICAL CHASE | KES | 9"x32" 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 | – | |
| 82.00 | | 1 | LANDING TABLE | INTERMETRO | TLDP–S | – | 2 | KES | – | |
| 85.05 | | 1 | FROZEN FRY DISPENSER | RAM | 280–FP | E140753 | 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 51" AFF | HCWF1.99A INSTALL HARDWARE KIT REQUIRED |
| 93.00 | | 1 | UNIVERSAL EXHAUST HOOD FULL–CLAM GRILL | KES | UH–43 | MH12755 | 2 | KES | – | |
| 96.21 | | 2 | 36" NEXT GEN 3–PLATEN CLAMSHELL GRILL – ELECTRIC | GARLAND | ME–3PX | E28898 | 4 | KES | – | |
| 97.08 | | 1 | MEAT FREEZER – DOUBLE WIDE – HIGH CAPACITY – RIGHT HAND | KES | HCMF30B–RH | SA6032 S | 2 | KES | AIR–COOLED, SELF–CONTAINED | |
| 99.01 | | 2 | GRILL TOOL ORGANIZER – 43" HOOD | 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. | |

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 174.50 | | 1 | REMOTE CONDENSING UNIT | MASTER–BILT | MSLA040MC | SA5649 | – | KES | ALT. VENDOR HEATCRAFT. VERIFY EQUIPMENT SELECTION AND POWER REQ. W/ KES. | |
| 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 | | 3 | 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 | | 1 | 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 | – | |
| 191.00 | | 1 | VALANCE SHELVING – 18" x 36" | INTERMETRO | M1836C–MP | – | 2 | KES | MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED | |
| 191.01 | | 1 | 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 | |
| 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 | | 8 | 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 | – | |
| 700.07 | | 1 | WATER HEATER – GAS | 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: 9900762 | |
| 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 | |

SEE SHEET K2.0 FOR EQUIPMENT
LAYOUT AND TAG IDENTIFICATION

## 1 K2.1 KITCHEN SCHEDULE

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| A | 2/3/26 | CHANGING WATER HEATER AND RTU'S TO GAS, DECOR UPDATES | SO |

2/20/26

PREPARED BY:
**CORE STATES GROUP**
212 SE 34th. Street, Suite 2
Bentonville, AR 72712
479.877.3465
www.core-states.com

PREPARED FOR:
**McDonald's USA, LLC**

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DRAWN BY
DA
STD ISSUE DATE
2025 05
REVIEWED BY
CS
DATE ISSUED
10–16–2025

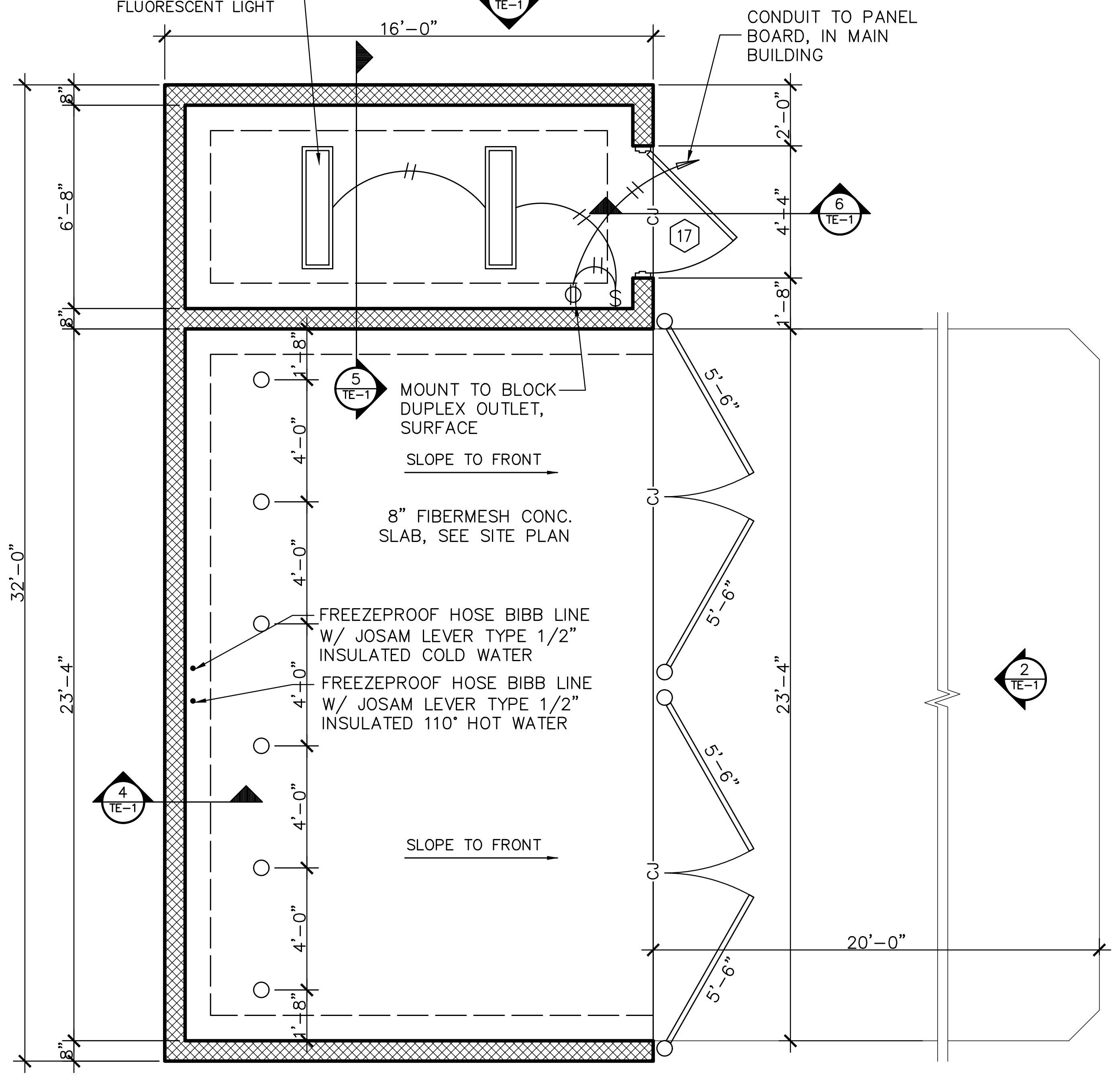
TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281

SITE ADDRESS
490 AMERICANA BOONVILLE, MO, 65233–9756

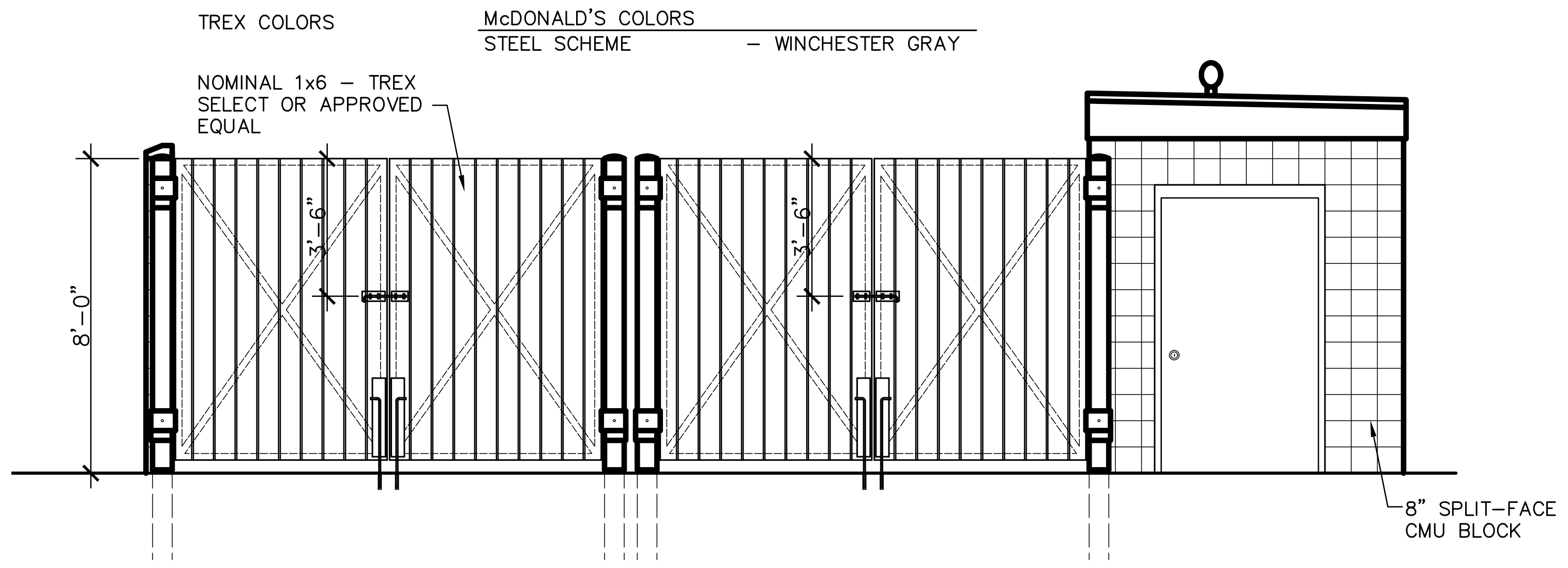
SHEET NO.
024–0281.00.0
K2.1
KITCHEN SCHEDULE


MODEL A8–100HM–AR
FIXTURE 'LITHONIA' 4'
FLUORESCENT LIGHT
3 TE–1
16'–0"
CONDUIT TO PANEL BOARD, IN MAIN BUILDING
2'–0"
4'–4"
1'–8"
6 TE–1
17
CJ
S
8"
6'–8"
8"
32'–0"
23'–4"
1'–8"
4'–0"
5 TE–1
MOUNT TO BLOCK DUPLEX OUTLET, SURFACE
SLOPE TO FRONT
8" FIBERMESH CONC. SLAB, SEE SITE PLAN
FREEZEPROOF HOSE BIBB LINE W/ JOSAM LEVER TYPE 1/2" INSULATED COLD WATER
FREEZEPROOF HOSE BIBB LINE W/ JOSAM LEVER TYPE 1/2" INSULATED 110° HOT WATER
4 TE–1
SLOPE TO FRONT
5'–6"
2 TE–1
20'–0"

## 1 TE1.0 TRASH ENCLOSURE PLAN W/ SHED

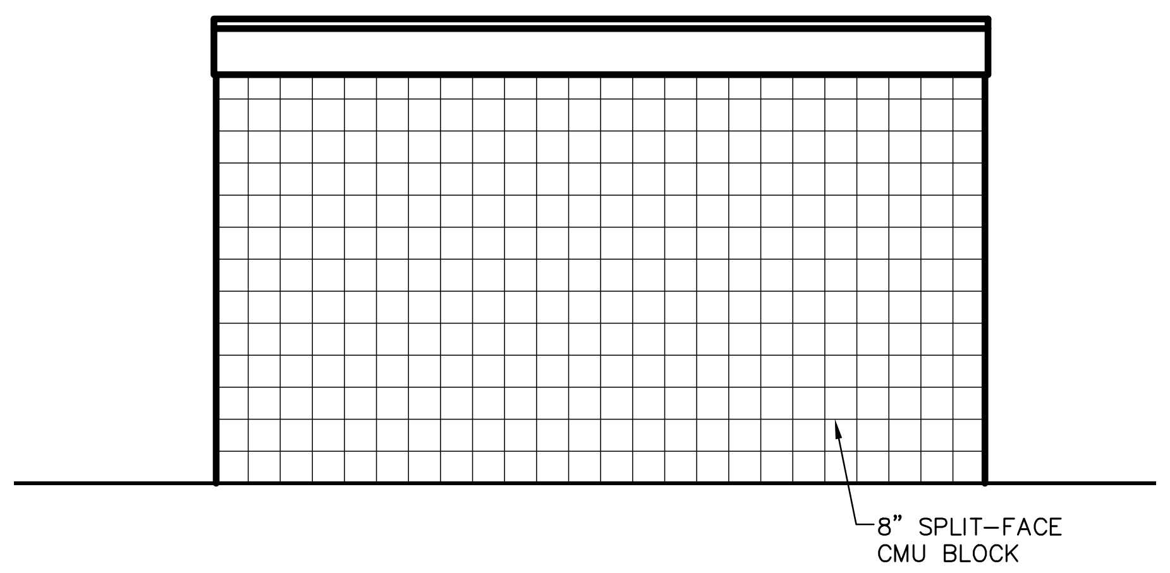
1/4"=1'–0"

NOTE:
1. ALL WOOD SHALL BE TREATED AND PAINTED
2. ALL STEEL CONNECTIONS SHALL BE FULL WELDED.


TREX COLORS
McDONALD'S COLORS
STEEL SCHEME – WINCHESTER GRAY
NOMINAL 1x6 – TREX SELECT OR APPROVED EQUAL
8'–0"
3'–6"
8" SPLIT–FACE CMU BLOCK

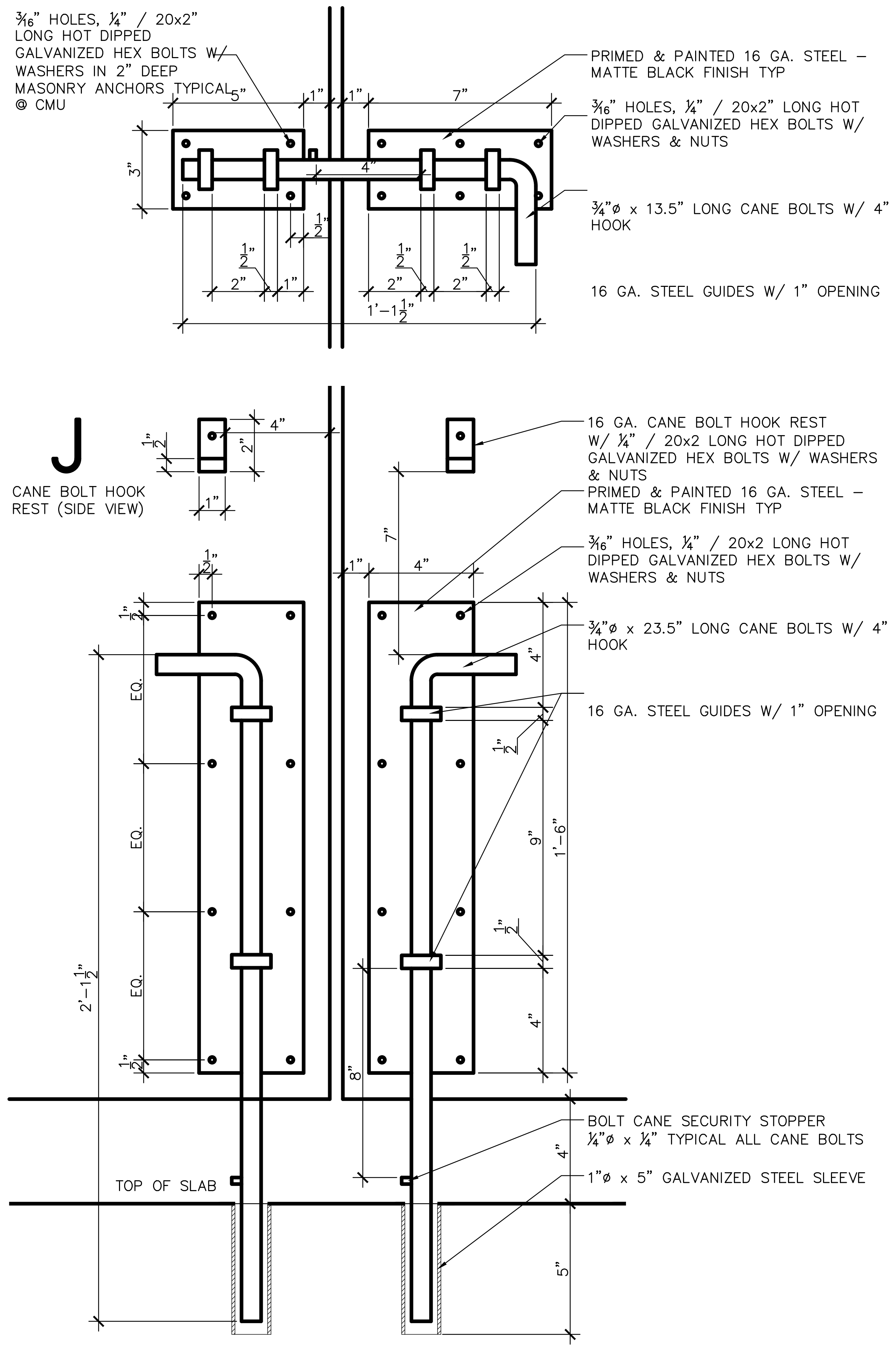
## 2 TE1.0 TRASH ENCLOSURE FRONT ELEVATION

1/4"=1'–0"



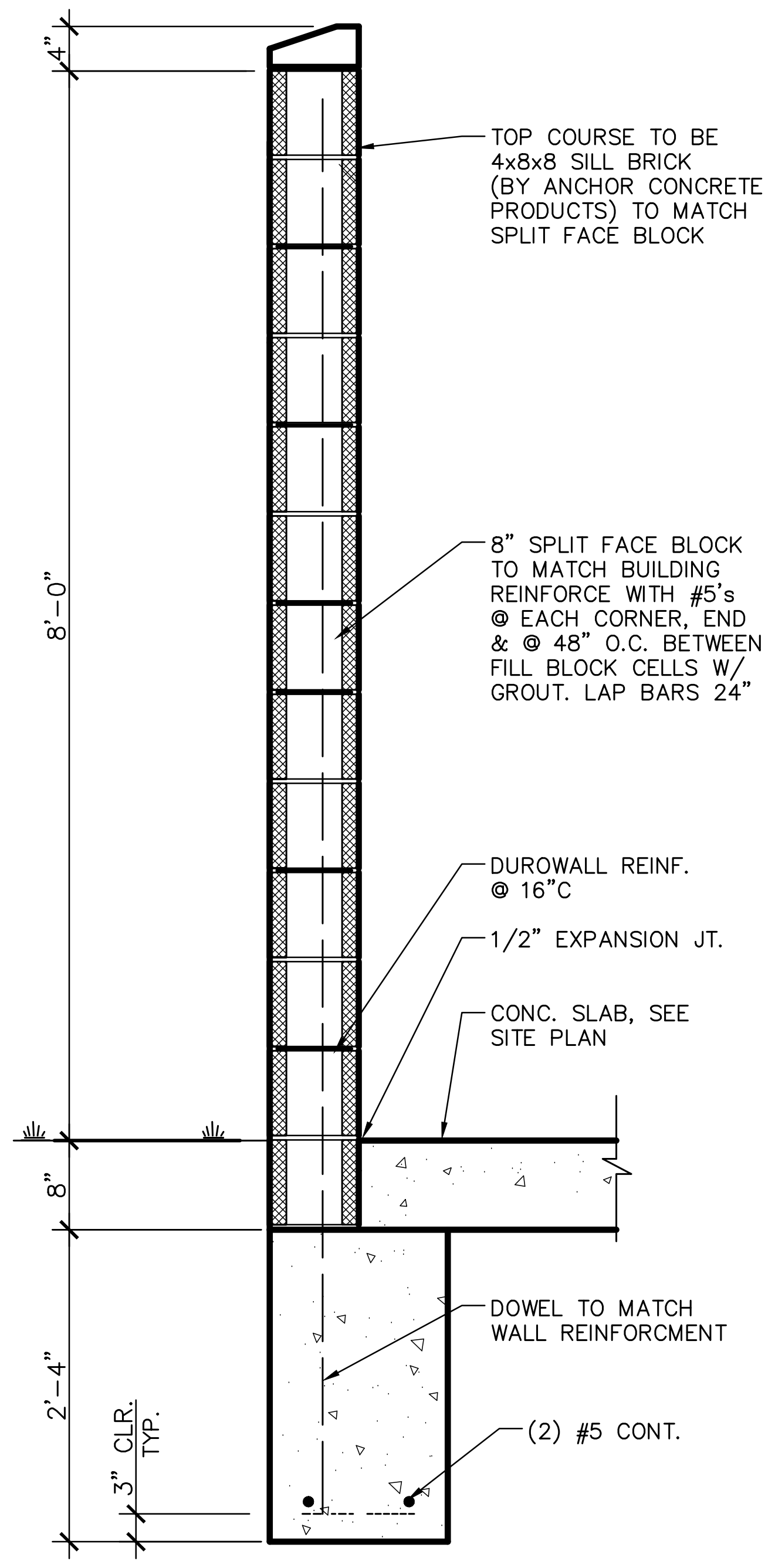
## 3 TE1.0 TRASH ENCLOSURE SIDE ELEVATION

1/4"=1'–0"


3/16" HOLES, 1/4" / 20x2" LONG HOT DIPPED GALVANIZED HEX BOLTS W/ WASHERS IN 2" DEEP MASONRY ANCHORS TYPICAL @ CMU
PRIMED & PAINTED 16 GA. STEEL – MATTE BLACK FINISH TYP
3/16" HOLES, 1/4" / 20x2" LONG HOT DIPPED GALVANIZED HEX BOLTS W/ WASHERS & NUTS
3/4"ø x 13.5" LONG CANE BOLTS W/ 4" HOOK
16 GA. STEEL GUIDES W/ 1" OPENING
5"
1"
1"
7"
3"
4"
1/2"
2"
1'–1 1/2"
J
CANE BOLT HOOK REST (SIDE VIEW)
16 GA. CANE BOLT HOOK REST W/ 1/4" / 20x2 LONG HOT DIPPED GALVANIZED HEX BOLTS W/ WASHERS & NUTS
PRIMED & PAINTED 16 GA. STEEL – MATTE BLACK FINISH TYP
3/16" HOLES, 1/4" / 20x2 LONG HOT DIPPED GALVANIZED HEX BOLTS W/ WASHERS & NUTS
3/4"ø x 23.5" LONG CANE BOLTS W/ 4" HOOK
16 GA. STEEL GUIDES W/ 1" OPENING
EQ.
2'–1 1/2"
9"
1'–6"
8"
BOLT CANE SECURITY STOPPER 1/4"ø x 1/4" TYPICAL ALL CANE BOLTS
TOP OF SLAB
1"ø x 5" GALVANIZED STEEL SLEEVE
5"

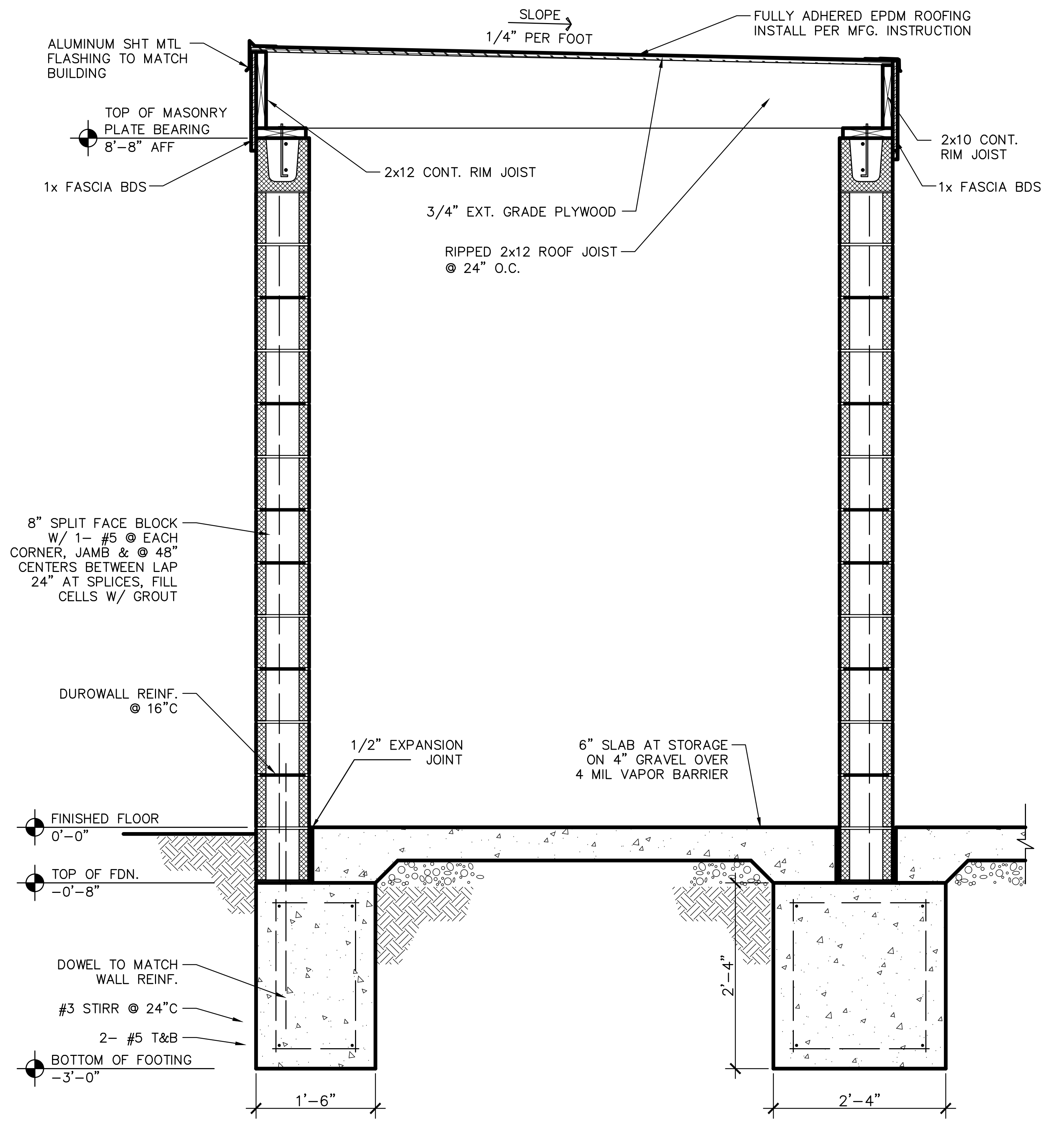
## 7 TE1.0 BOLT DETAILS

3"=1'–0"


4"
TOP COURSE TO BE 4x8x8 SILL BRICK (BY ANCHOR CONCRETE PRODUCTS) TO MATCH SPLIT FACE BLOCK
8'–0"
8" SPLIT FACE BLOCK TO MATCH BUILDING REINFORCE WITH #5's @ EACH CORNER, END & @ 48" O.C. BETWEEN FILL BLOCK CELLS W/ GROUT. LAP BARS 24"
DUROWALL REINF. @ 16"C
1/2" EXPANSION JT.
CONC. SLAB, SEE SITE PLAN
8"
DOWEL TO MATCH WALL REINFORCMENT
2'–4"
(2) #5 CONT.
3" CLR. TYP.

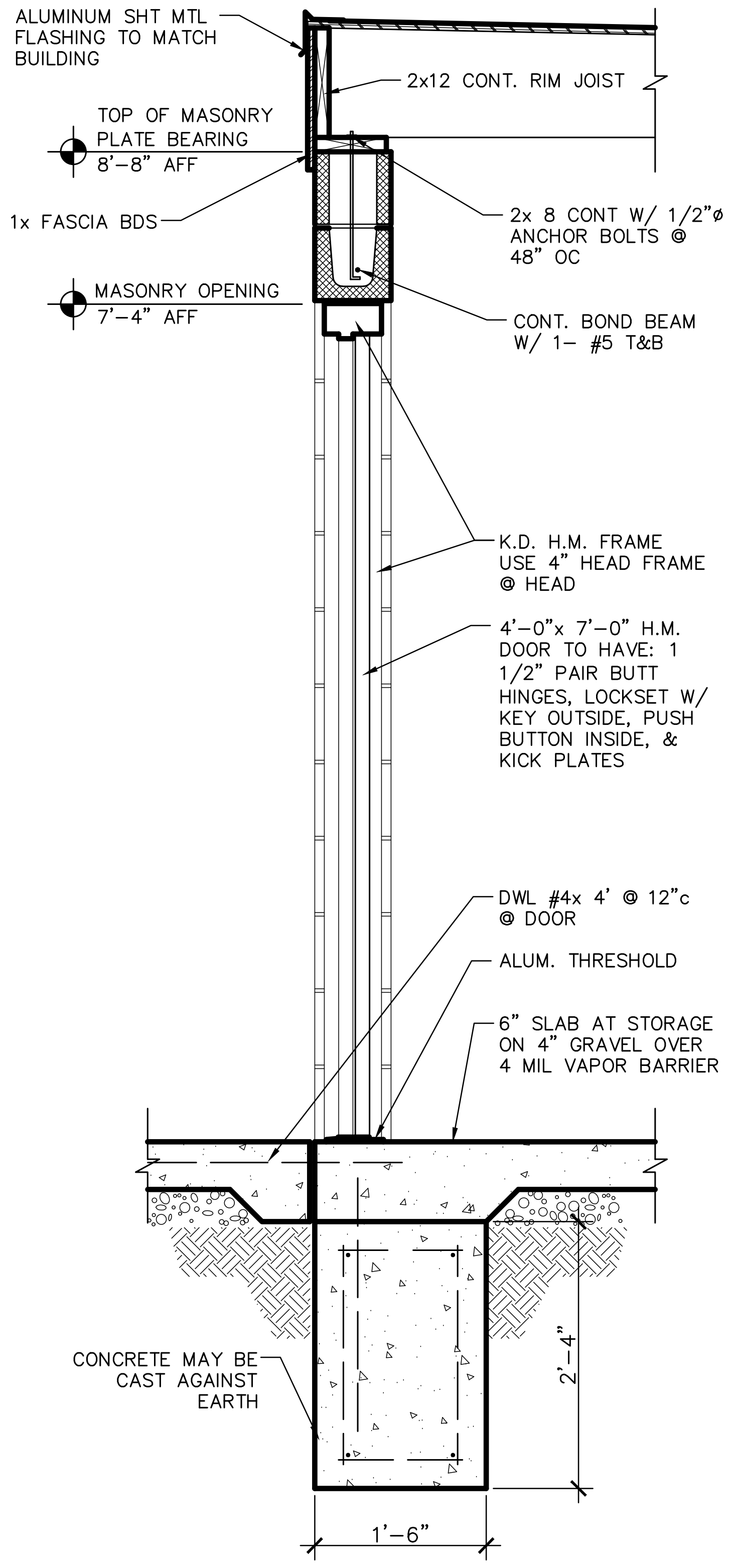
## 4 TE1.0 TYPICAL WALL SECTION

3/4"=1'–0"


SLOPE 1/4" PER FOOT
FULLY ADHERED EPDM ROOFING INSTALL PER MFG. INSTRUCTION
ALUMINUM SHT MTL FLASHING TO MATCH BUILDING
TOP OF MASONRY PLATE BEARING 8'–8" AFF
2x12 CONT. RIM JOIST
3/4" EXT. GRADE PLYWOOD
RIPPED 2x12 ROOF JOIST @ 24" O.C.
2x10 CONT. RIM JOIST
1x FASCIA BDS
1x FASCIA BDS
8" SPLIT FACE BLOCK W/ 1– #5 @ EACH CORNER, JAMB & @ 48" CENTERS BETWEEN LAP 24" AT SPLICES, FILL CELLS W/ GROUT
DUROWALL REINF. @ 16"C
1/2" EXPANSION JOINT
6" SLAB AT STORAGE ON 4" GRAVEL OVER 4 MIL VAPOR BARRIER
FINISHED FLOOR 0'–0"
TOP OF FDN. –0'–8"
DOWEL TO MATCH WALL REINF.
#3 STIRR @ 24"C
2– #5 T&B
BOTTOM OF FOOTING –3'–0"
2'–4"
1'–6"
2'–4"

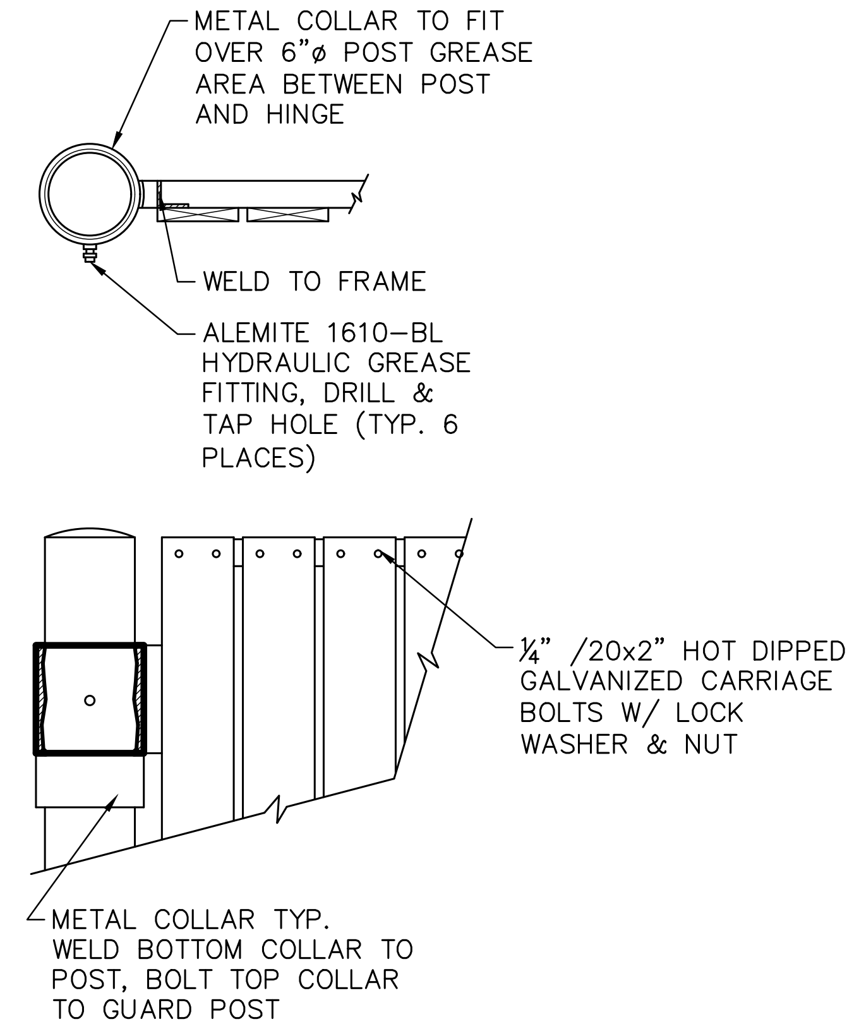
## 5 TE1.0 SECTION THRU STORAGE ROOM

3/4"=1'–0"


ALUMINUM SHT MTL FLASHING TO MATCH BUILDING
2x12 CONT. RIM JOIST
TOP OF MASONRY PLATE BEARING 8'–8" AFF
1x FASCIA BDS
2x 8 CONT W/ 1/2"ø ANCHOR BOLTS @ 48" OC
MASONRY OPENING 7'–4" AFF
CONT. BOND BEAM W/ 1– #5 T&B
K.D. H.M. FRAME USE 4" HEAD FRAME @ HEAD
4'–0"x 7'–0" H.M. DOOR TO HAVE: 1 1/2" PAIR BUTT HINGES, LOCKSET W/ KEY OUTSIDE, PUSH BUTTON INSIDE, & KICK PLATES
DWL #4x 4' @ 12"c @ DOOR
ALUM. THRESHOLD
6" SLAB AT STORAGE ON 4" GRAVEL OVER 4 MIL VAPOR BARRIER
CONCRETE MAY BE CAST AGAINST EARTH
2'–4"
1'–6"

## 6 TE1.0 SECTION THRU STORAGE ROOM

3/4"=1'–0"


METAL COLLAR TO FIT OVER 6"ø POST GREASE AREA BETWEEN POST AND HINGE
WELD TO FRAME
ALEMITE 1610–BL HYDRAULIC GREASE FITTING, DRILL & TAP HOLE (TYP. 6 PLACES)
1/4" /20x2" HOT DIPPED GALVANIZED CARRIAGE BOLTS W/ LOCK WASHER & NUT
METAL COLLAR TYP. WELD BOTTOM COLLAR TO POST, BOLT TOP COLLAR TO GUARD POST

## 8 TE1.0 HINGE DETAILS

NTS

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |

WILLIAM SHEPPARD
NUMBER A-2024044882
11-14-2025

PREPARED BY:
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ARCHITECT
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PHONE 501-624-5679

PREPARED FOR:
**McDonald's USA, LLC**

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DRAWN BY: OS
STD ISSUE DATE: 2025 05
REVIEWED BY: CS
DATE ISSUED: 10–16–2025

TITLE
2025 STANDARD BUILDING – BB20
4597 – WOOD/WOOD

DESCRIPTION
WOOD BEARING WALLS W/HARDIE BOARD EXTERIOR FINISH & Ci
WOOD TRUSS ROOF FRAMING
E.I.F.S./BATTEN/LAP SIDING EXTERIOR FINISH

NSN: 8043
L/C: 024–0281
SITE ADDRESS
490 AMERICANA
BOONVILLE, MO, 65233–9756

SHEET NO.
024–0281.00.0
**TE1.0**
TRASH ENCLOSURE