

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 FINISH 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.

ABBREVIATIONS

GENERAL ABBREVIATIONS

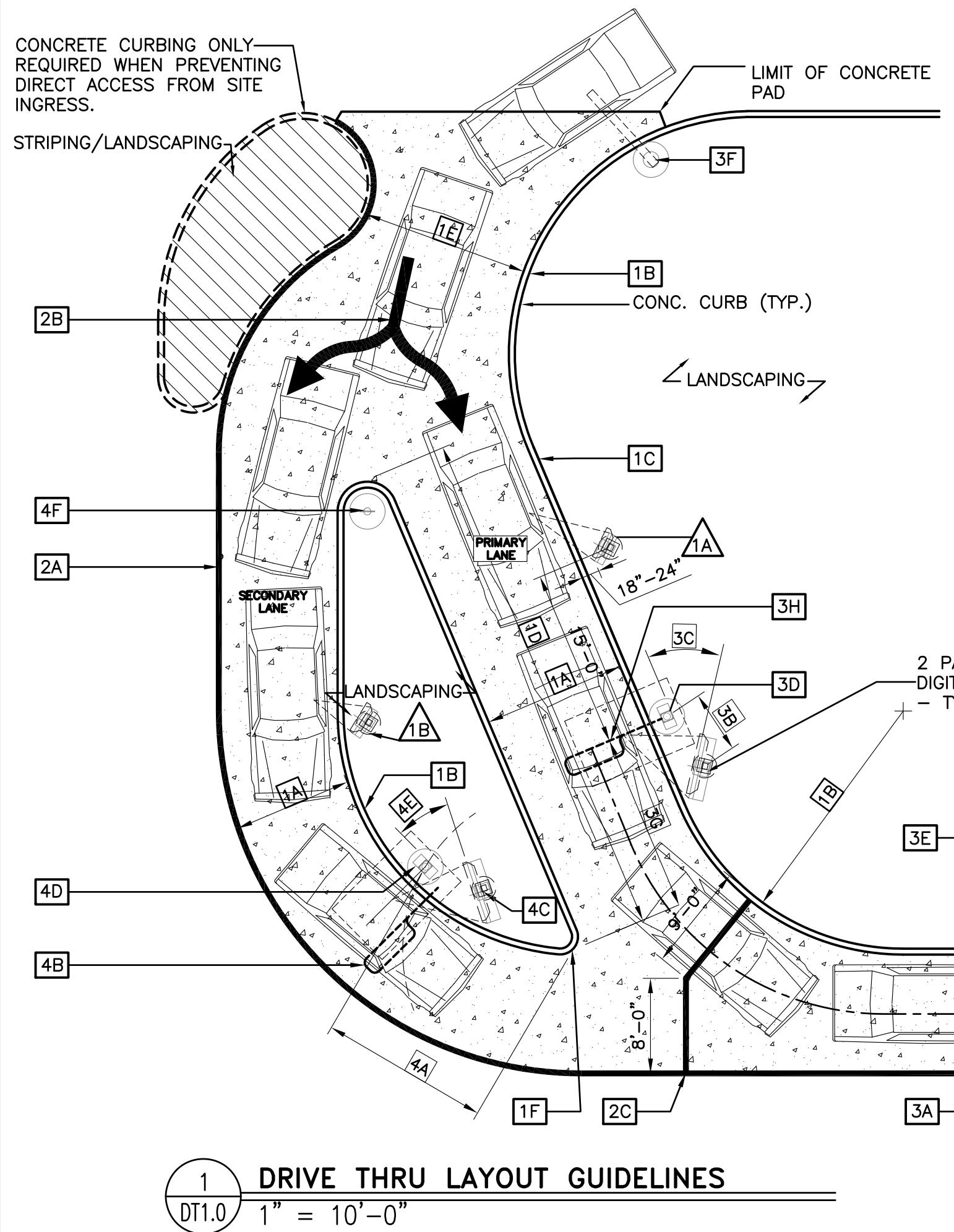
A	ANNEALED	INSUL	INSULATION
AC	AIR CONDITIONING	MAX	MATERIAL
ACT	ACOUSTIC CEILING TILE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MFR	MANUFACTURER
AHU	AIR HANDLING UNIT	MIN	MINIMUM
AL	ALUMINUM	MO	MASONRY OPENING
ASPH	ASPHALT	MR	MOISTURE RESISTANT
CJ	CONTROL JOINT	MTL	METAL
CLNG	CEILING	NA	NOT APPLICABLE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

McDONALD'S ABBREVIATIONS

AP	APOLIC MENTAL PANEL	LAM	LAMINATE
BM	BRAKE METAL	LE	ACCENT LIGHTING
C	ALUMINUM CANOPY	LP	LOW POINT
CG	CORNER GUARD	LL	LEVEL LANDING
CT	WALL TILE	MACHINE	
DE	DECOR ELEMENT	MANAGER	
DEVICE		MF	METAL FASCIA
DMB	DIGITAL MENU BOARD	MS	MOP SINK
DS	DROP SOFFIT	PB	PIPE BILLARD
D/T	DRIVE-THRU	PT	RMHC COIN COLLECTOR
FB	FILL BOX	RL	ROOF LADDER
F/C	FREEZER/COOLER	ROOM	
GC	GENERAL CONTRACTOR	S	McDONALD'S SIGNAGE
HP	HIGH POINT	SCH	SHLUTER
KIOSK		SSBB	SELF SERVE BEVERAGE BAR
L	LIGHT FIXTURE	UN	ALUMINUM CANOPY underscore

DRAWN BY		PREPARED BY:		REVIEWED BY:		DATE ISSUED	
 McDonald's USA, LLC		12400 ARCHITECTURE & PLANNING 12400 PORTLAND AVENUE SOUTH BURNSVILLE, MN 55337 EMAIL: DATA@REPRISEDI.S.COM PHONE: (952) 252-4042 FAX: (952) 252-4943		KOD 01/23/20		01/23/20	
TITLE: 2019 STANDARD BUILDING - BB20 015-0071.00.00		STD ISSUE DATE: 2019_11		DATE ISSUED: 01/23/20		REV. DATE: 01/13/20	
DESCRIPTION: 459-F10-WOOD/WOOD		DESCRIPTION: WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/APOLIC PANEL/BRICK EXT. FINISH		DESCRIPTION: SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS		DESCRIPTION: SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS	
SHEET NO.	015-0071	015-0071	015-0071	015-0071	015-0071	015-0071	015-0071
GENERAL NOTES							
I hereby certify that this drawing, specification or report was prepared under my direction and supervision, and was drawn by me or under the direct supervision of a registered architect, engineer or surveyor duly registered with the State of Minnesota.							
Signature:  Brian Abner, AIA, LEED AP Title: Architect Registration Number: 01234567 Date: 01/23/20							
BY:  Brian Abner, AIA, LEED AP Title: Architect Registration Number: 01234567 Date: 01/23/20							

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

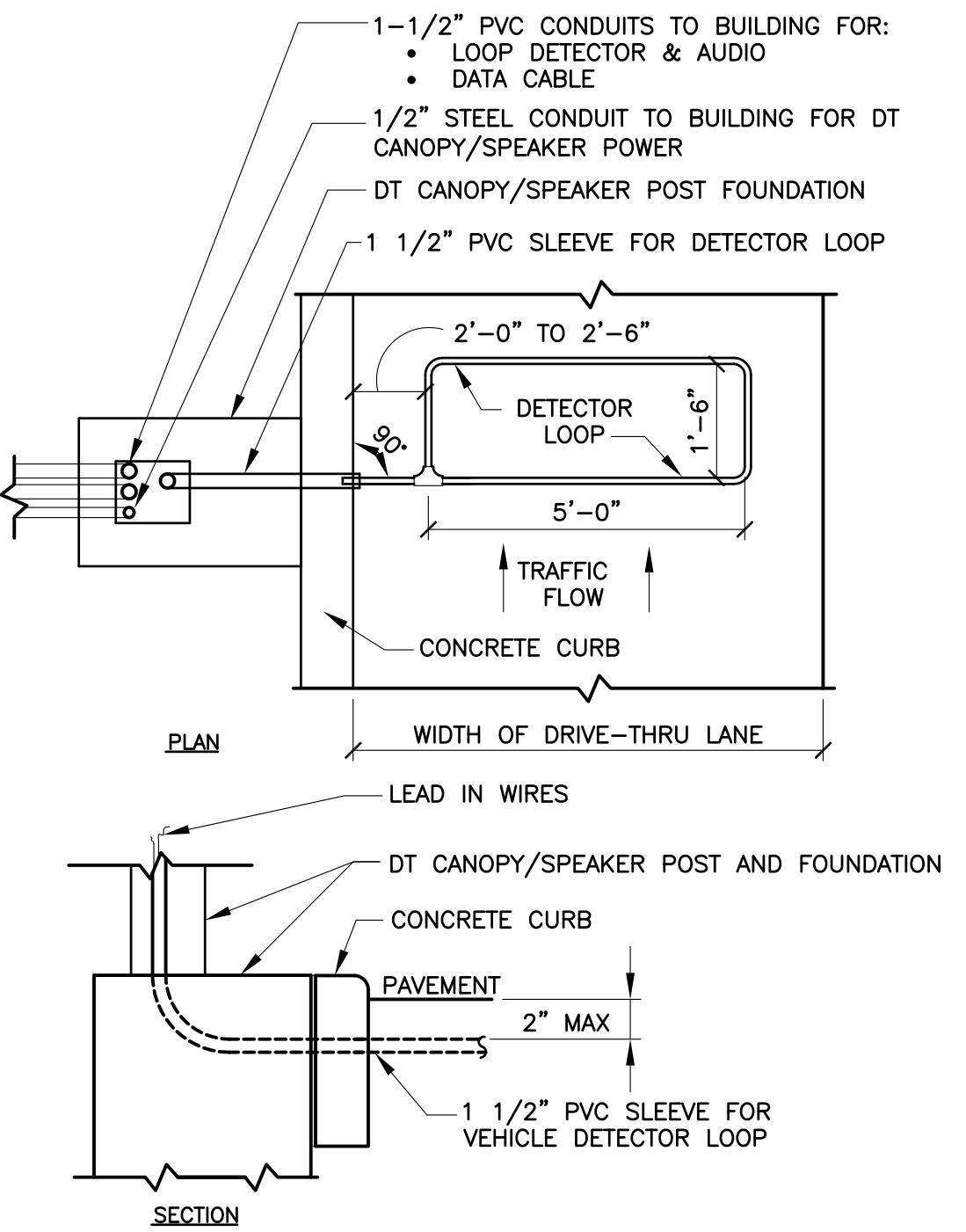


1 DRIVE THRU LAYOUT GUIDELINES

DT1.0 1" = 10'-0"

NOTES

- VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
- CENTER VEHICLE DETECTOR LOOP IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
- NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
- DETECTOR LOOP MANUFACTURERS:
DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWING COMPANIES OR EQUAL.
3M: 1-800-328-0033
HME: 1-800-848-4468
- 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.
- DETECTOR LOOP CONSTRUCTION:
FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.



2 DETECTOR LOOP DETAILS

DT1.0 NOT TO SCALE

SIDE BY SIDE DRIVE-THRU STANDARD 1.0

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 CURBING DETAILS:**
 - 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".
 - THE MIN. RADIUS FOR ALL INSIDE/DRIVER'S SIDE DRIVE-THRU CURBING IS 20'-0".
 - PRIMARY LANE CURBING SHOULD BE AS STRAIGHT AS POSSIBLE. (LESS CURVING, THE BETTER).
 - 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.
 - ENTRANCE LANE ENTERING THE SIDE BY SIDE DRIVE-THRU IS TO BE 14'-0" MIN.
 - THE RADIUS FOR THE ISLAND TIP SHALL BE 1'-6".
- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 PAVEMENT MARKINGS:**
 - 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.
 - 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.
 - 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.
 - THE WORDS "THANK YOU" ARE TO BE PLACED 8" FROM THE EDGE OF THE YELLOW STRIPE TO THE BOTTOM OF THE WORD "YOU".
 - 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.
 - A CIRCLE DIRECTIONAL ARROW CENTERED ABOVE THE WORD "DRIVE THRU" USED TO INDICATE THE DRIVE THRU ENTRY POINT.

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR PRIMARY LANE:**
 - MIN. 60'-0" (+5', 60'-65') LINEAR DISTANCE BETWEEN THE CENTER LINE OF THE PRIMARY DT CANOPY/SPEAKER 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.
 - 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.
 - 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.
 - AUGER "McDONALD'S ORDER HERE CANOPY" CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
 - 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.
 - AUGER "McDONALD'S GATEWAY" SIGN FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
 - 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.
 - THE PRIMARY LANE DETECTOR LOOP SHOULD BE PERPENDICULAR TO THE CENTER OF THE PRIMARY DT CANOPY/SPEAKER.
- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT POSITIONING FOR SECONDARY LANE:**
 - 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.
 - 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.
 - 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 BUT NOT LESS THAN 12" FROM FACE OF CURB.
 - AUGER "McDONALD'S ORDER HERE" DT CANOPY/SPEAKER FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
 - THE SECONDARY MENU BOARD SHOULD BE AT AN ANGLE OF APPROXIMATELY 25° FROM A VEHICLE POSITIONED AT THE DT CANOPY/SPEAKER AND WITH 100% VISIBILITY.
 - "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.
- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 DETECTOR LOOP:**
 - DETECTOR LOOPS SHALL BE LOCATED AT THE CENTER OF THE OPENING WINDOW AT THE CASH AND PRESENTER BOOTHS.

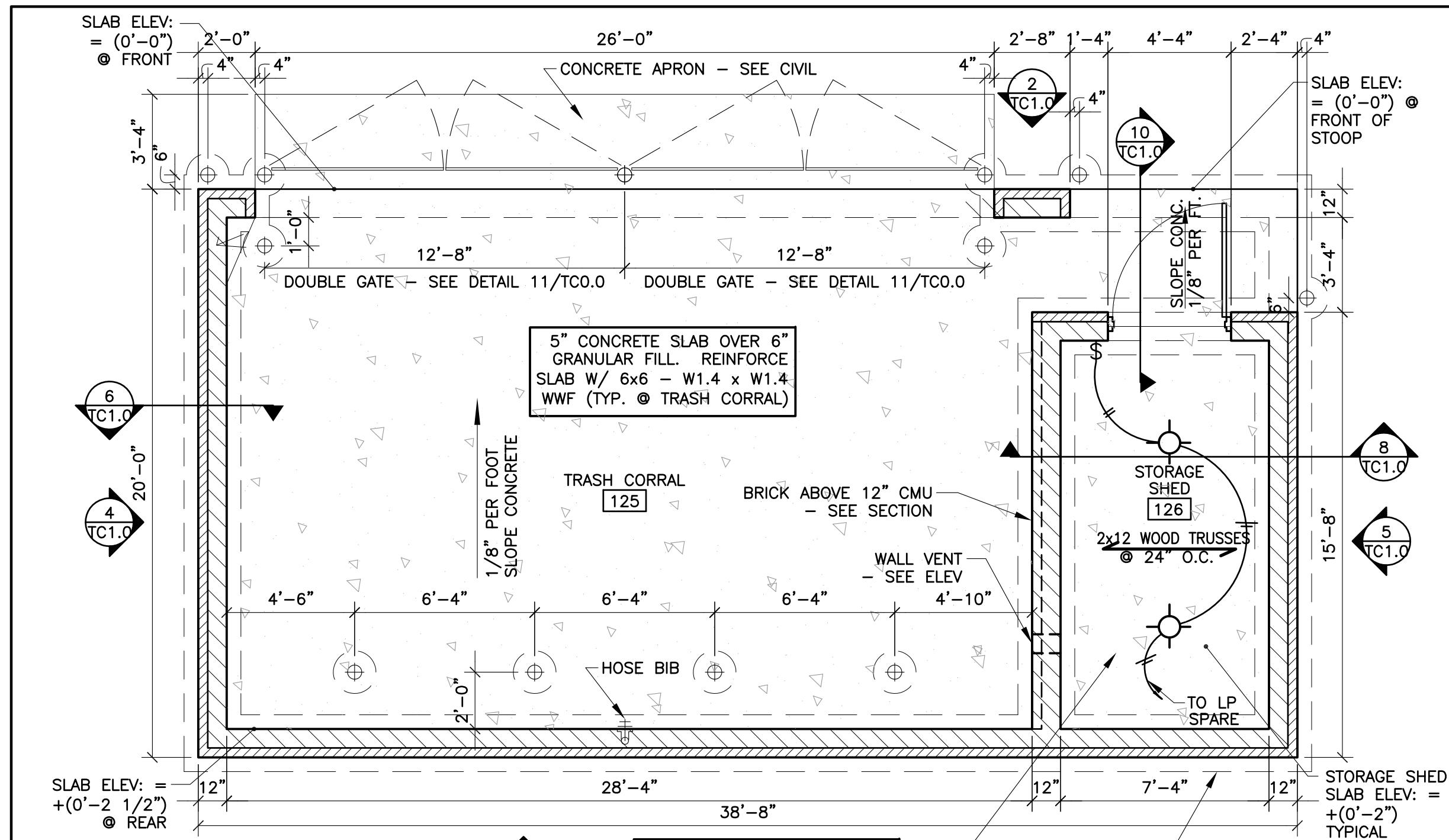
SIDE BY SIDE DRIVE-THRU STANDARD 1.0 FEATURES:

- SIDE BY SIDE DRIVE-THRU STANDARD 1.0 EQUIPMENT:**
 - PRE-BROWSE BOARD MUST BE 18"-24" FROM FACE OF CURB. THE DISTANCE 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.
 - PRE-BROWSE BOARD MUST BE MIN. 12" FROM FACE OF CURB. THE DISTANCE AS MEASURED ALONG FACE OF 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

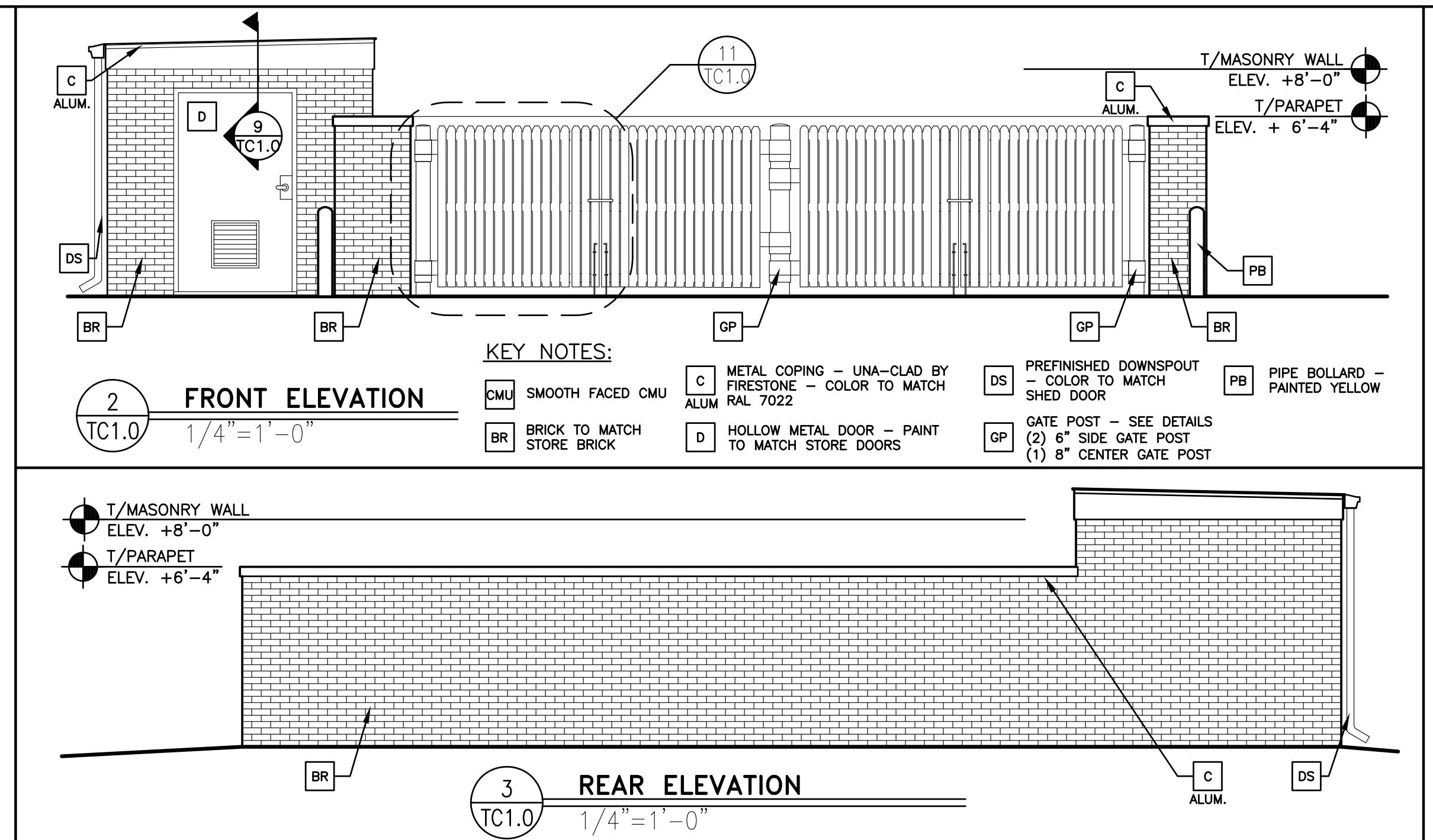
- DRIVE-THRU ELEMENTS:**
DT CANOPY/SPEAKER DRIVE-THRU PYLON/CLEARANCE POLE AND BOLLARD SIGN SHALL BE CONSISTENT WITH THE STANDARD BUILDING DESIGN DRIVE-THRU ELEMENTS.
OTHER DESIGNS MAY NOT BE USED.
- CONTRACTOR SHALL COORDINATE WITH APPLICABLE PLANS, McDONALD'S AREA CONSTRUCTION MANAGER, CONTENT SUPPLIER 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.
- 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.
- 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.
- CONTRACTOR TO COORDINATE THE RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR, CONTENT SUPPLIER AND THE SIGN SUPPLIER.
- CONTRACTOR TO INSTALL PRE-FORMED, PRE-WIRED VEHICLE DETECTOR LOOP.
- CONTRACTOR SHALL VERIFY CONDUIT SIZES REQUIRED BY VEHICLE LOOP DETECTOR SUPPLIER.

PREPARED BY:		McDonald's USA, LLC
© 2019 McDonald's USA, LLC		
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without the express written consent of McDonald's USA, LLC. Use of these drawings and specifications in conjunction with other plans and/or for use on a different site or at a later time, or for any other purpose, requires the services of properly licensed architects and engineers. Reproduction of these drawings and specifications without the express written consent of McDonald's USA, LLC is unauthorized.		
DRAWN BY	STD ISSUE DATE	REVIEWED BY
BB20	2019-11	RH
DESCRIPTION	DATE ISSUED	
2019 STANDARD BUILDING - BB20	11 15 2019	
TITLE NO. 015-0071.00.0		
015-0071.00.0		
DESCRIPTION WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & GI		
WOOD ROOF TRUSS FRAMING		
ELTS./BATEN/METAL PANEL/BRICK EXTERIOR FINISH		
SITE ID 015-0071	SITE ADDRESS 605 South 7th St, Kansas City, KS	BY
DT1.0 DRIVE-THRU DETAILS		



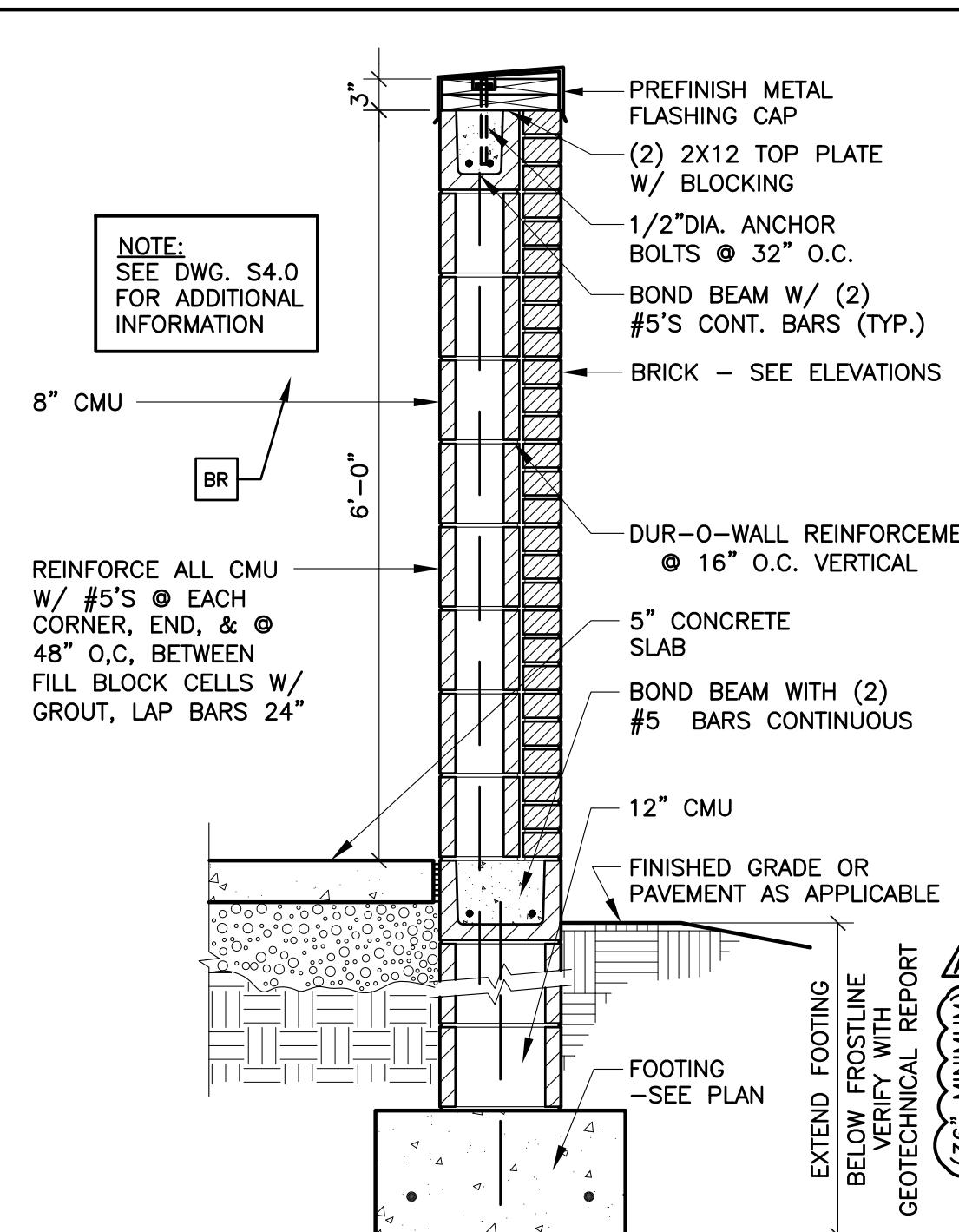
TRASH CORRAL PLAN W/ SHED

NOTE:
1. HOLLOW METAL DOOR SHALL BE 4' 0" x 7' 0" x 1 3/4" WITH FRAME, THRESHOLD, CONTINUOUS SINGE, LEVER HANDLE AND STOREROOM LOCKSET.
2. INCANDESCENT LIGHT FIXTURE SHALL BE FURNISHED, WIRE GUARD, 40 WATT LAMP, AND SURFACE MOUNT, PASS & SEMORE-#44 OR LIGHTING LTD #1742-2000 AWG

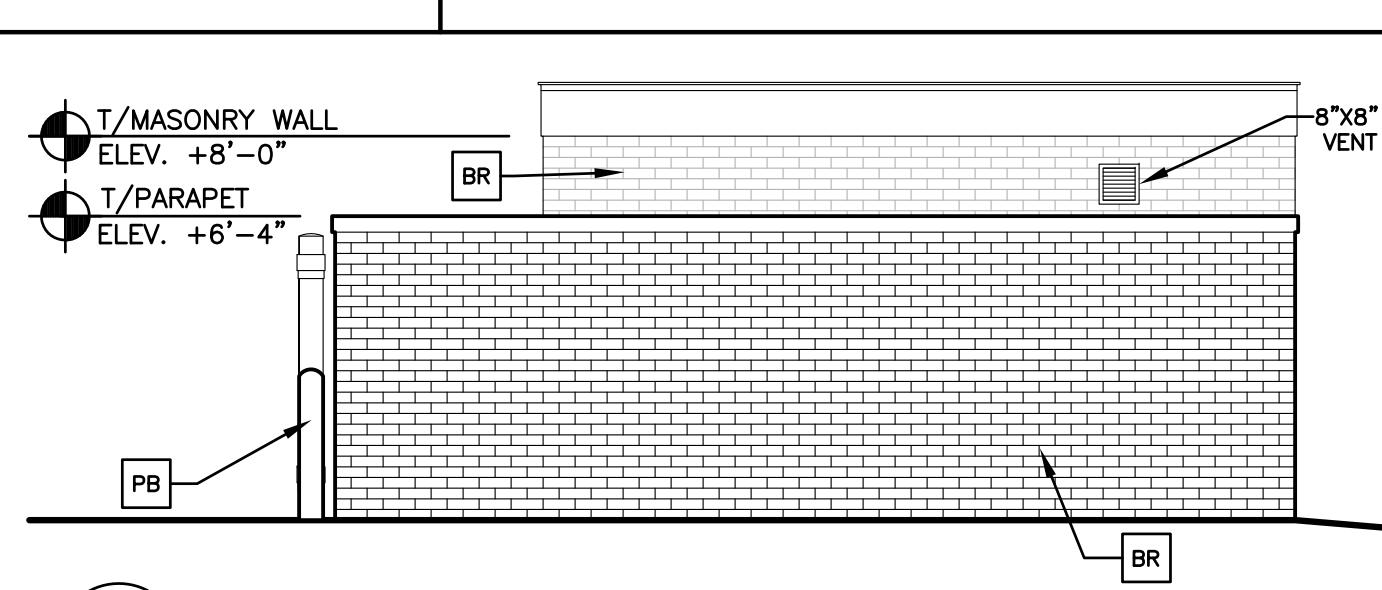


FRONT ELEVATION

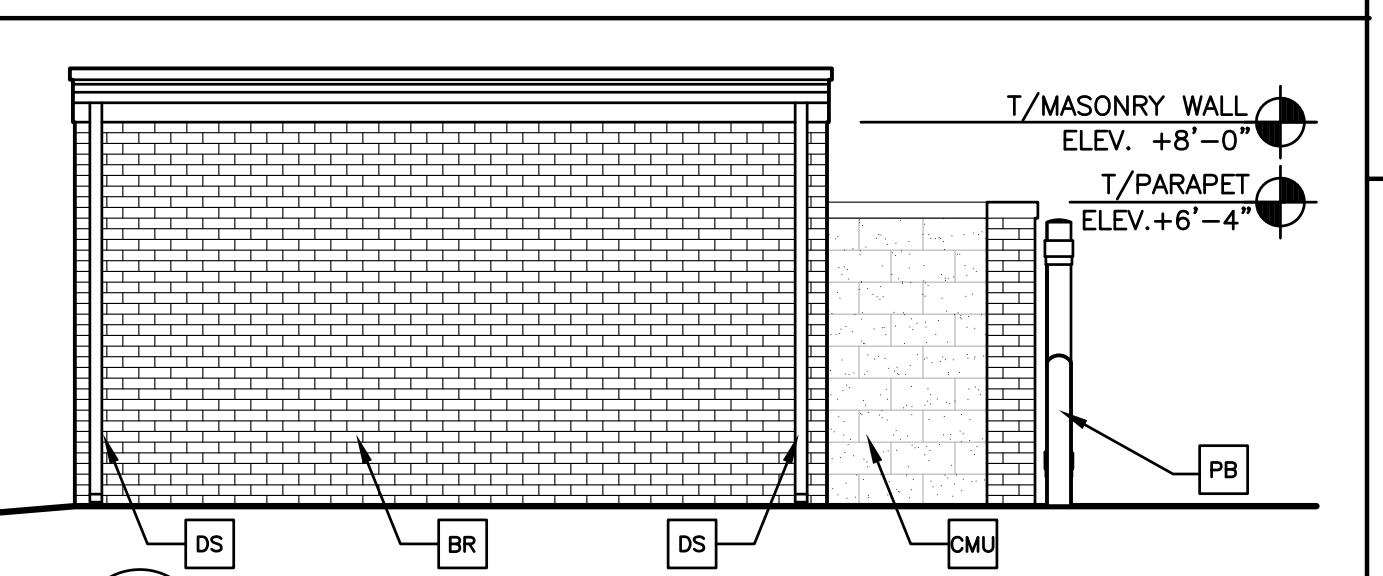
REAR ELEVATION



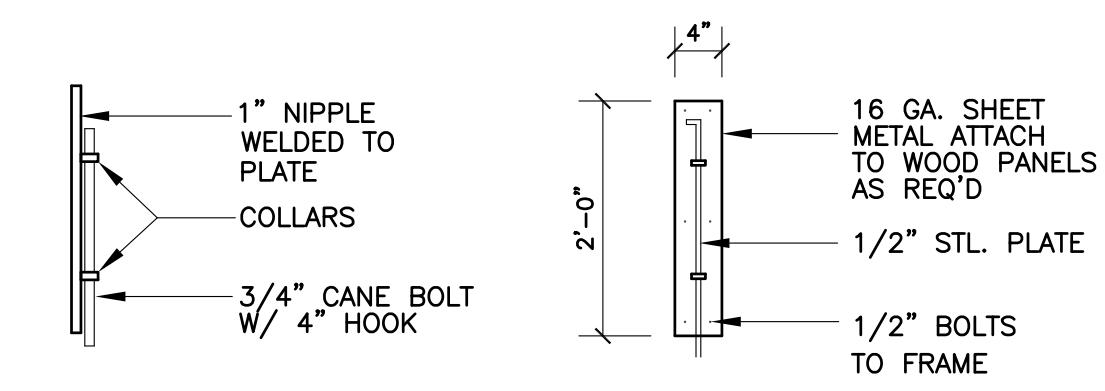
TYPICAL WALL SECTION



LEFT SIDE ELEVATION

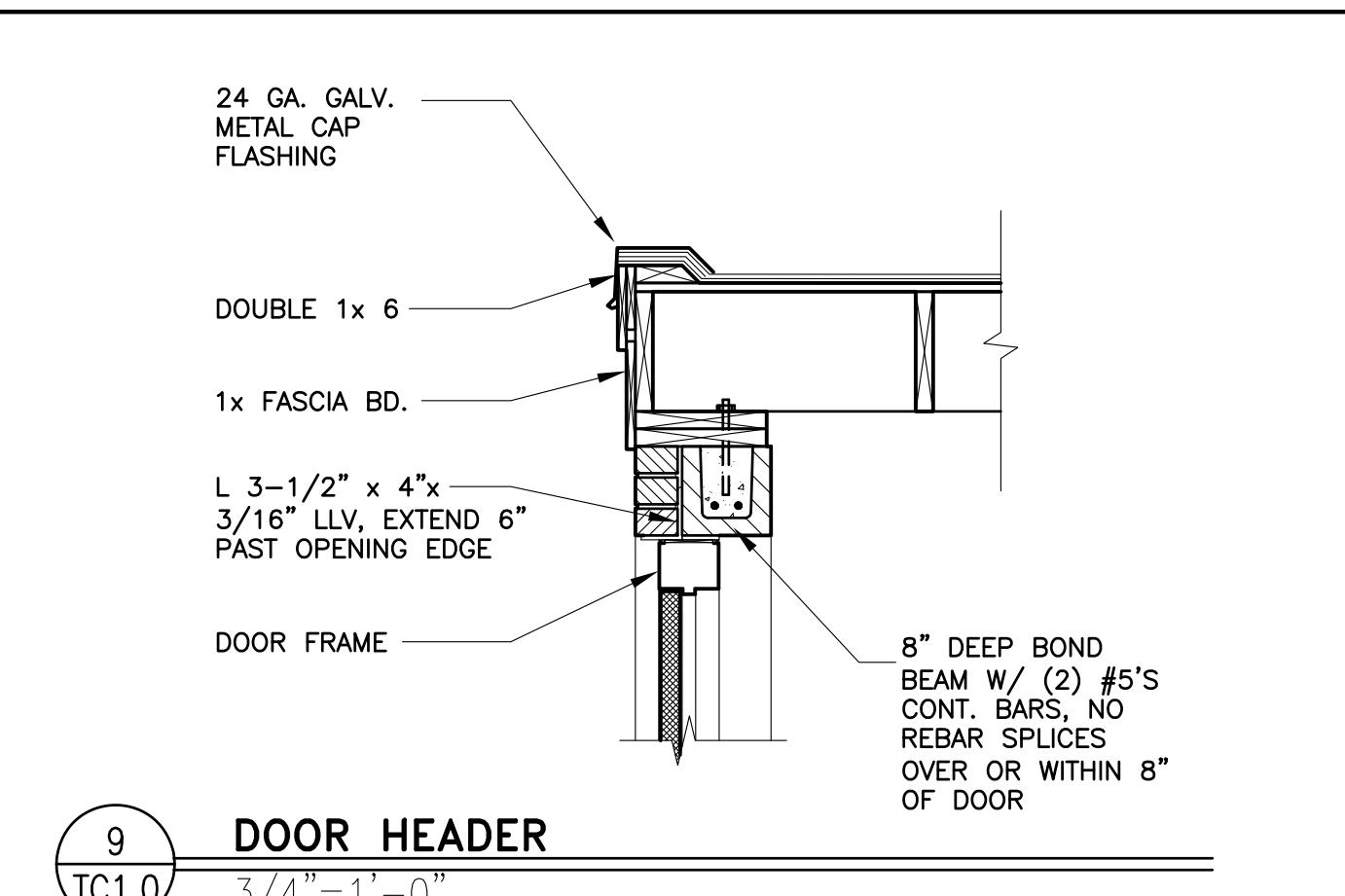
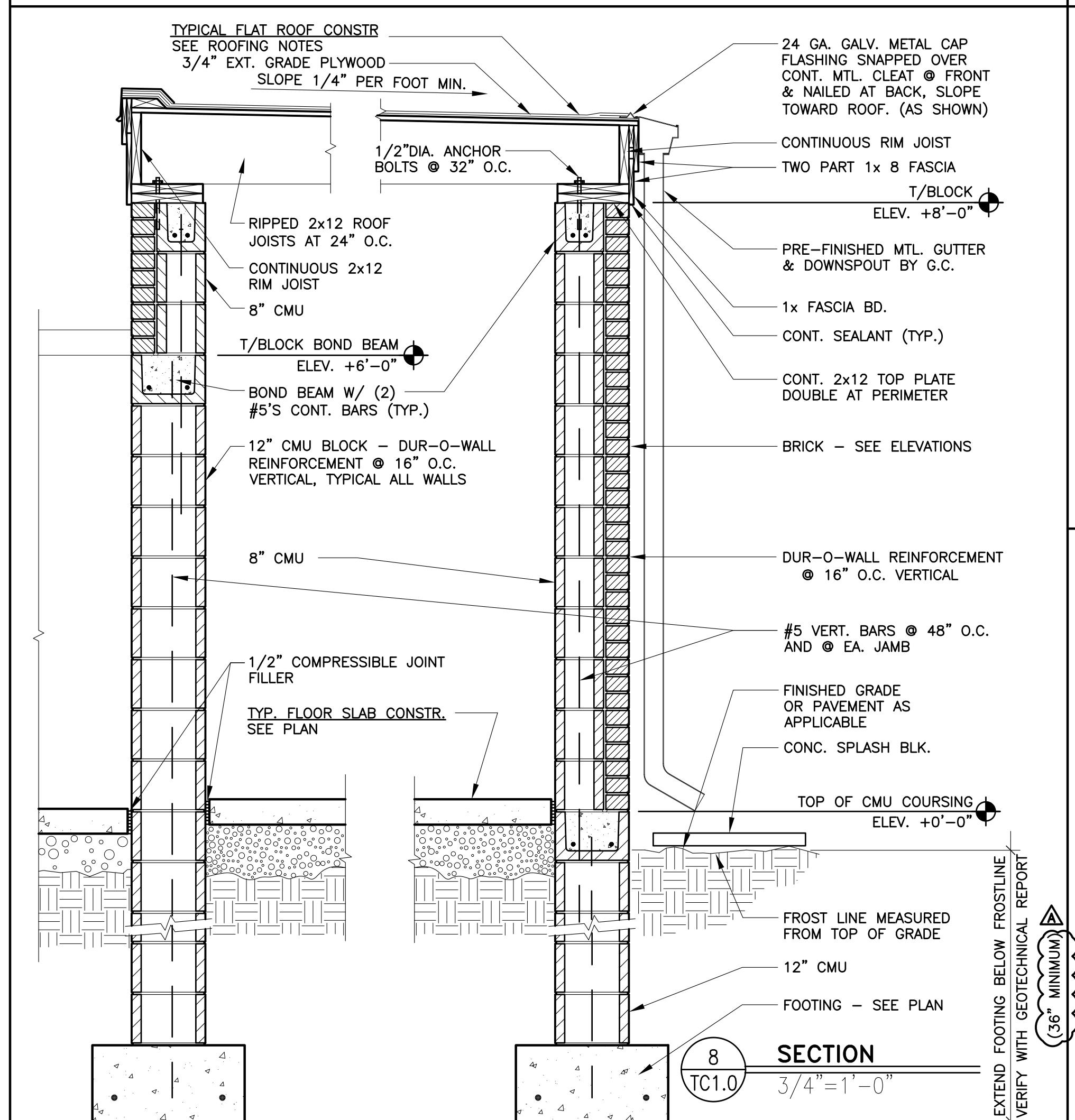


RIGHT SIDE ELEVATION

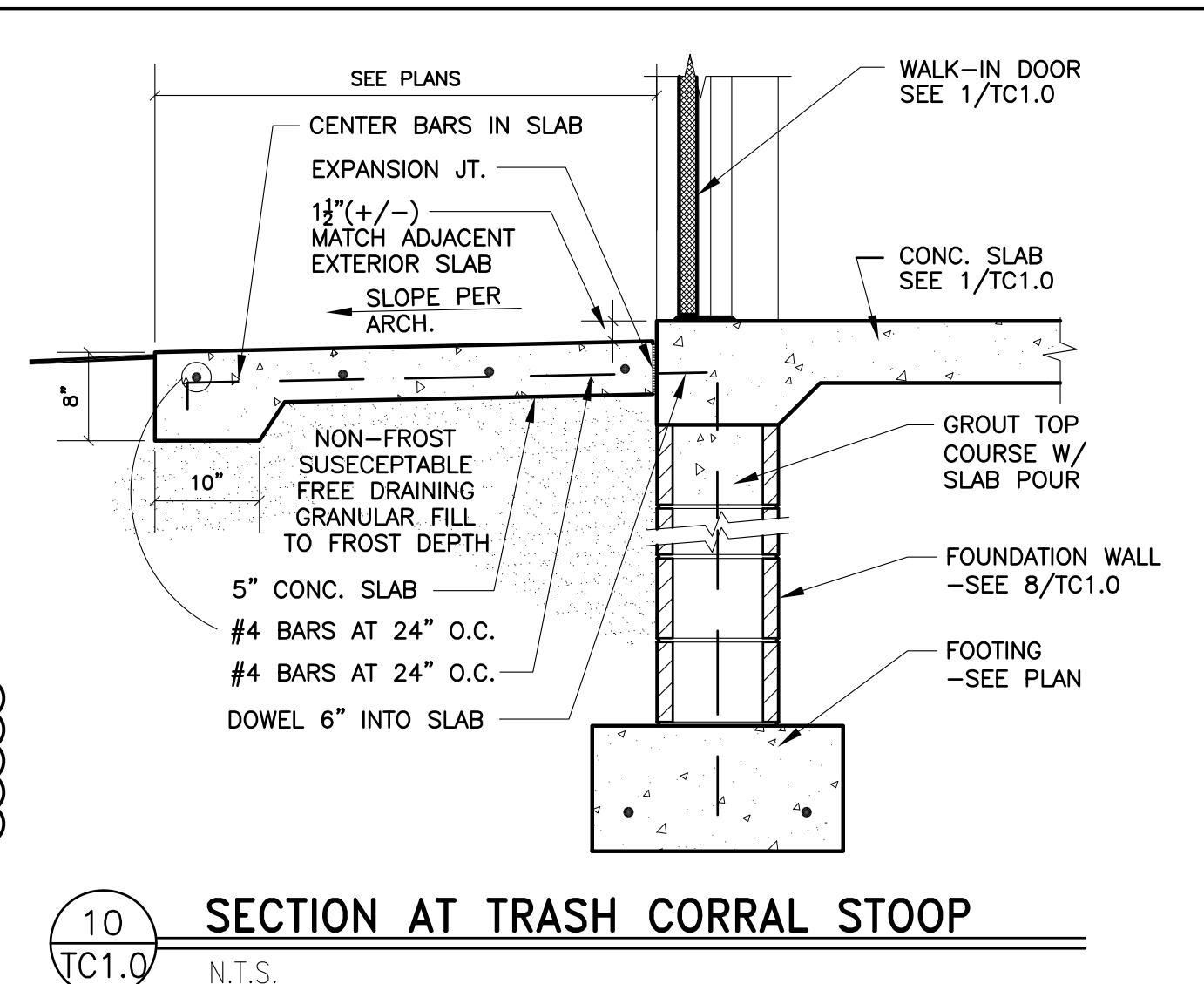


BOLT DETAILS

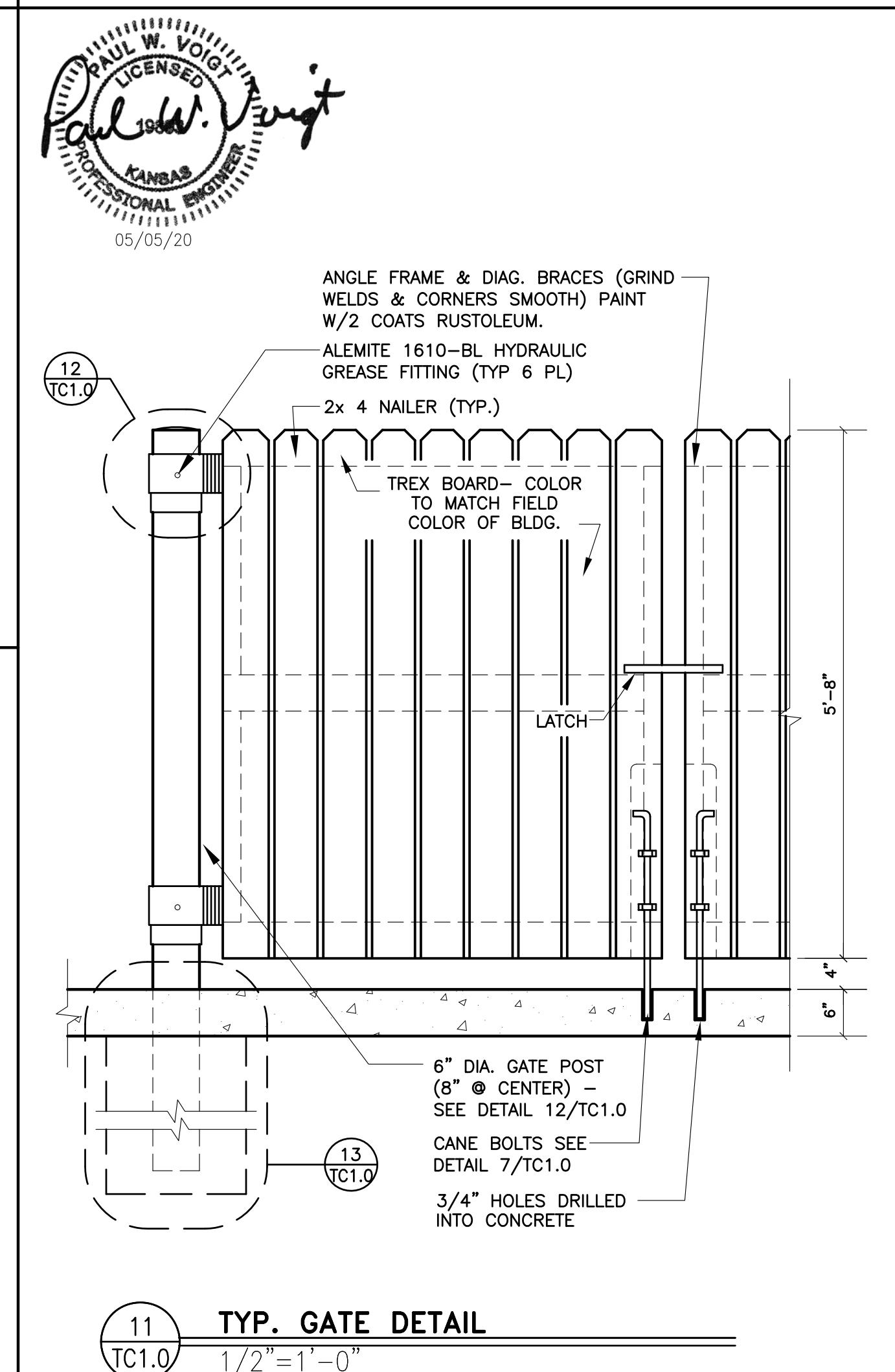
NOT TO SCALE



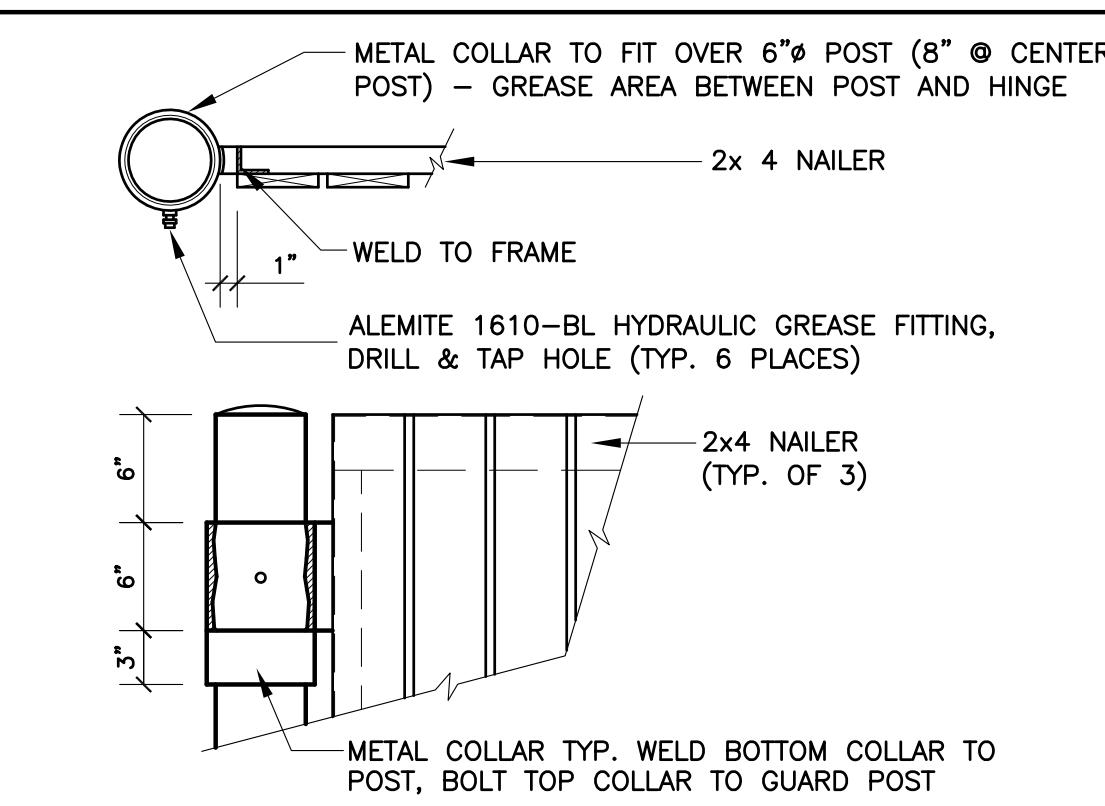
DOOR HEADER



SECTION AT TRASH CORRAL STOOP

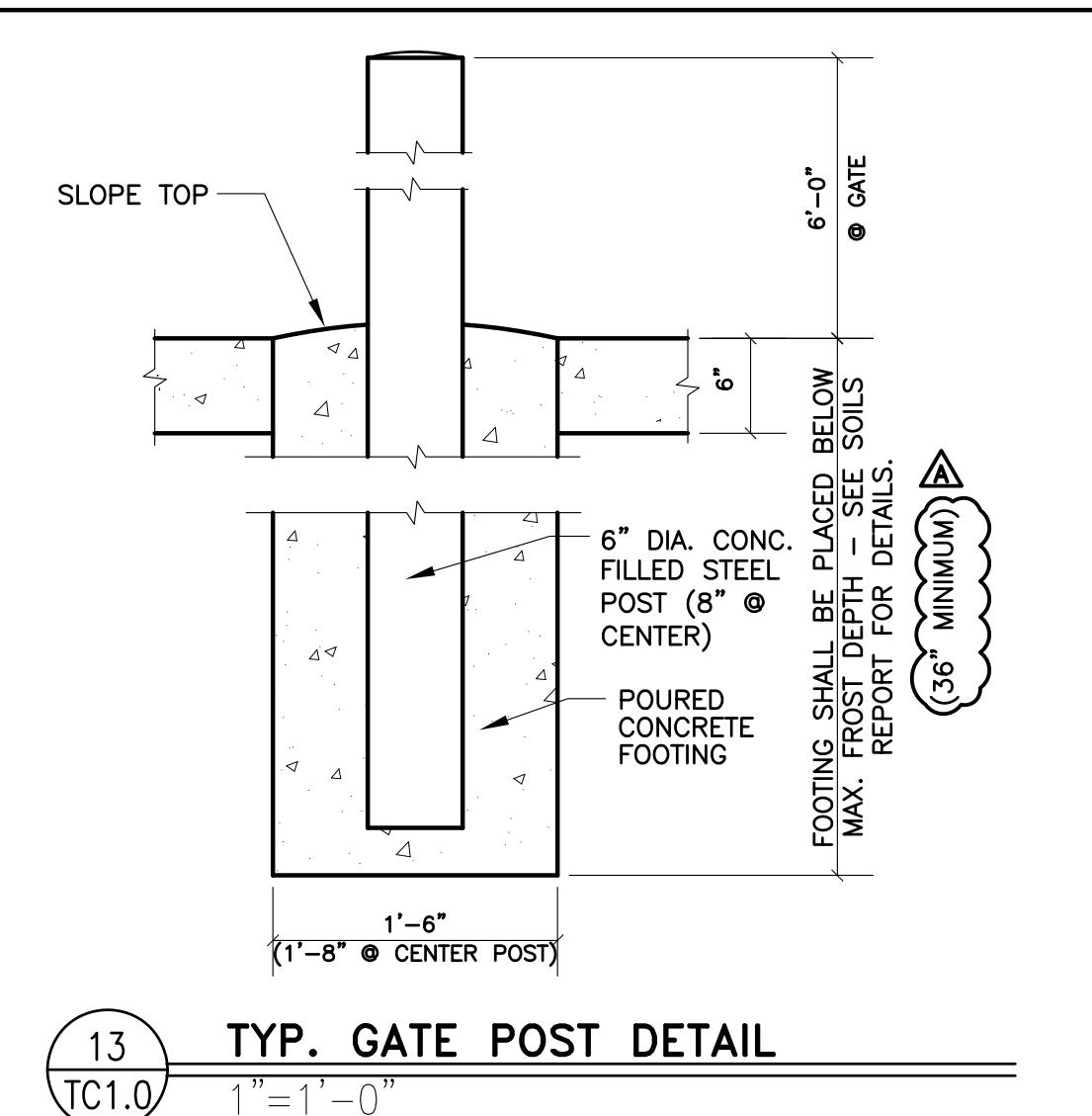


TYP. GATE DETAIL



HINGE DETAILS

NOT TO SCALE



TYP. GATE POST DETAIL

SHEET NO.	TITLE	DRAWN BY	DIA	STD ISSUE DATE	REVIEWED BY	KO	DATE ISSUED	BY
015-0071.00.A	2019 STANDARD BUILDING - BB20	2019-11						
015-0071.00.A	459-F10-WOOD/WOOD							
	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI							
	WOOD ROOF TRUSSES FRAMING							
	FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH							
015-0071	SITE ADDRESS							
605 SOUTH 7TH STREET, KANSAS CITY, KS								

TC1.0
TRASH CORRAL

I hereby certify that the above specification or report was prepared under my direction and supervision and is my original work. I am registered Architect of the State of Kansas.

Signature: ERIN ANN ARTHUR, AIA, LEED AP
Date: 05/05/20

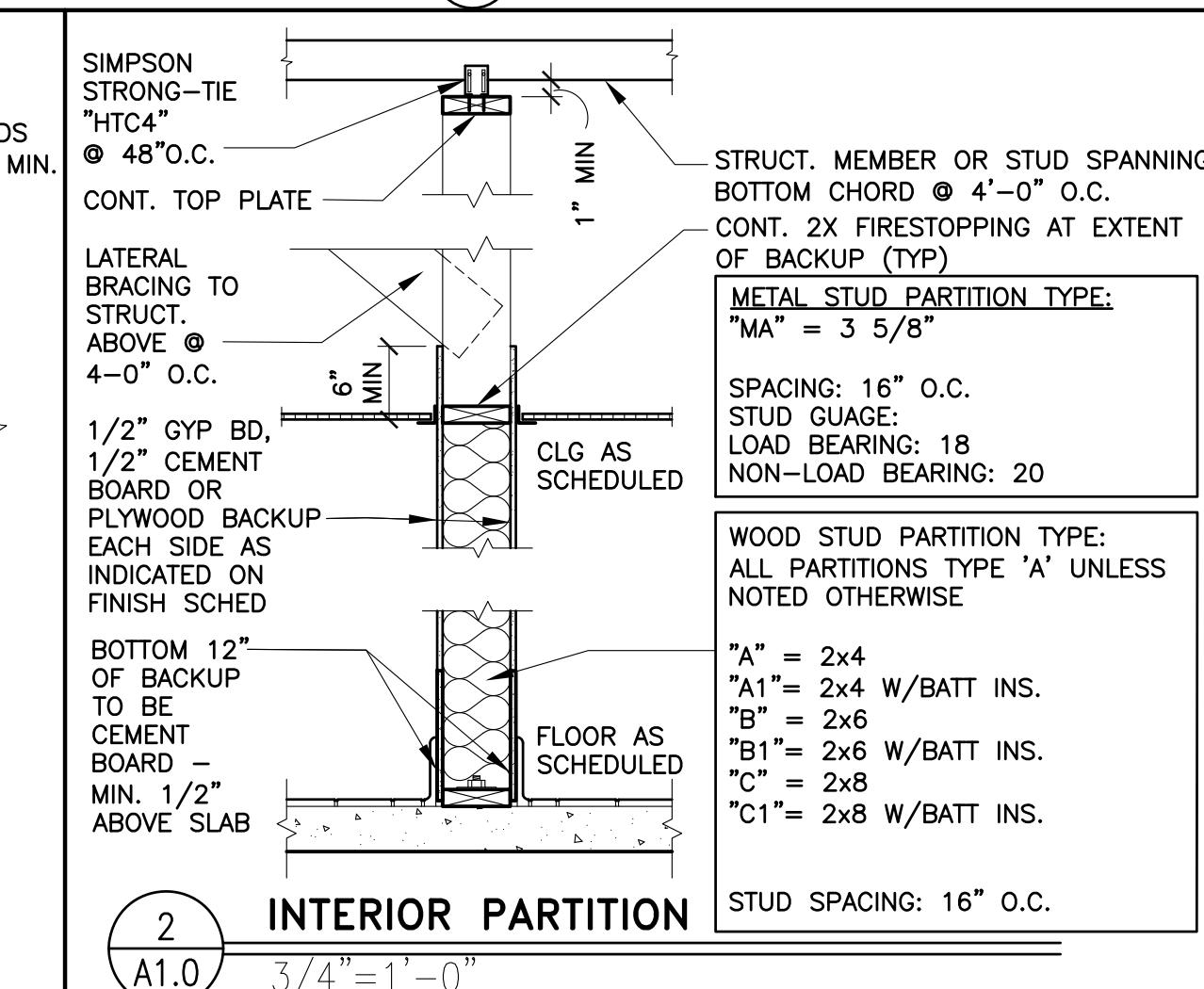
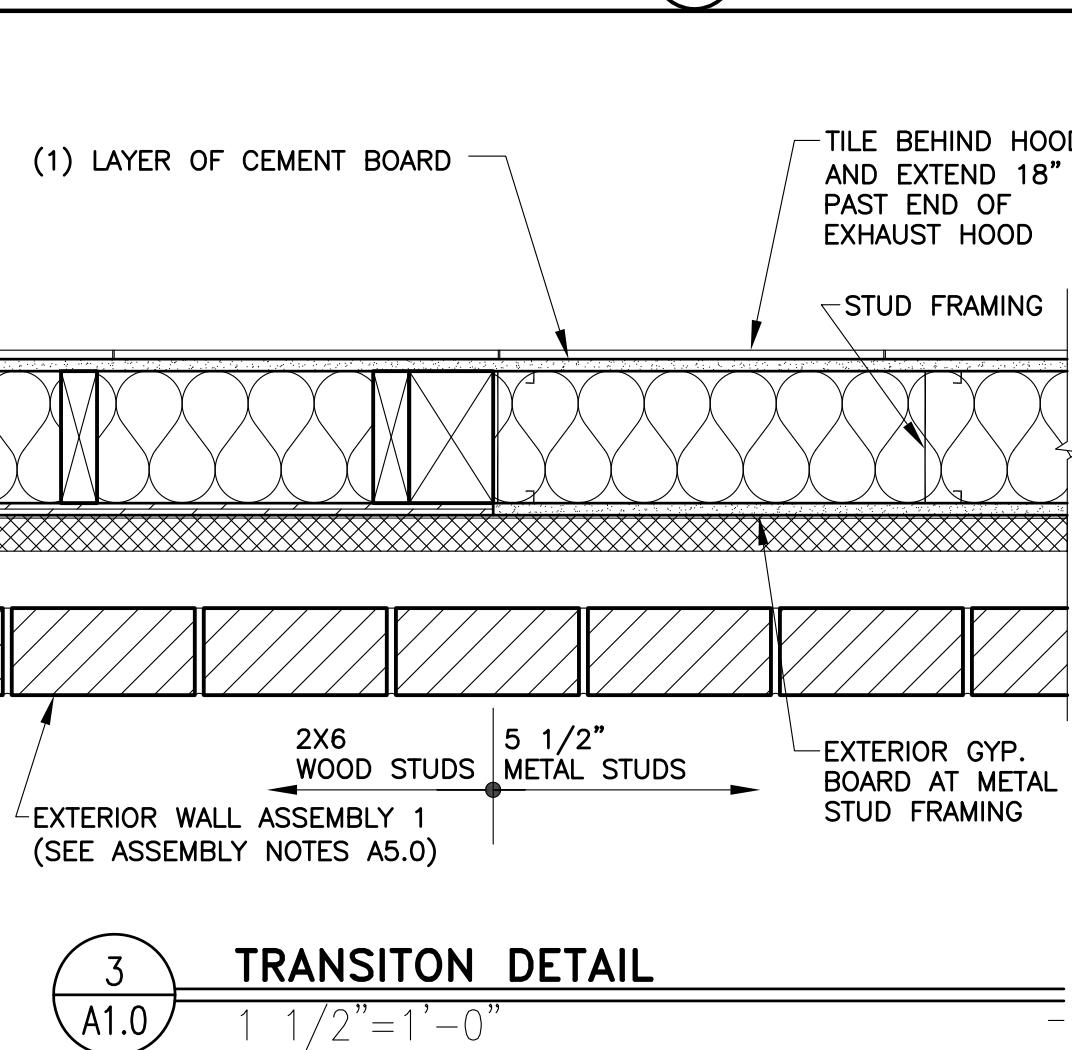
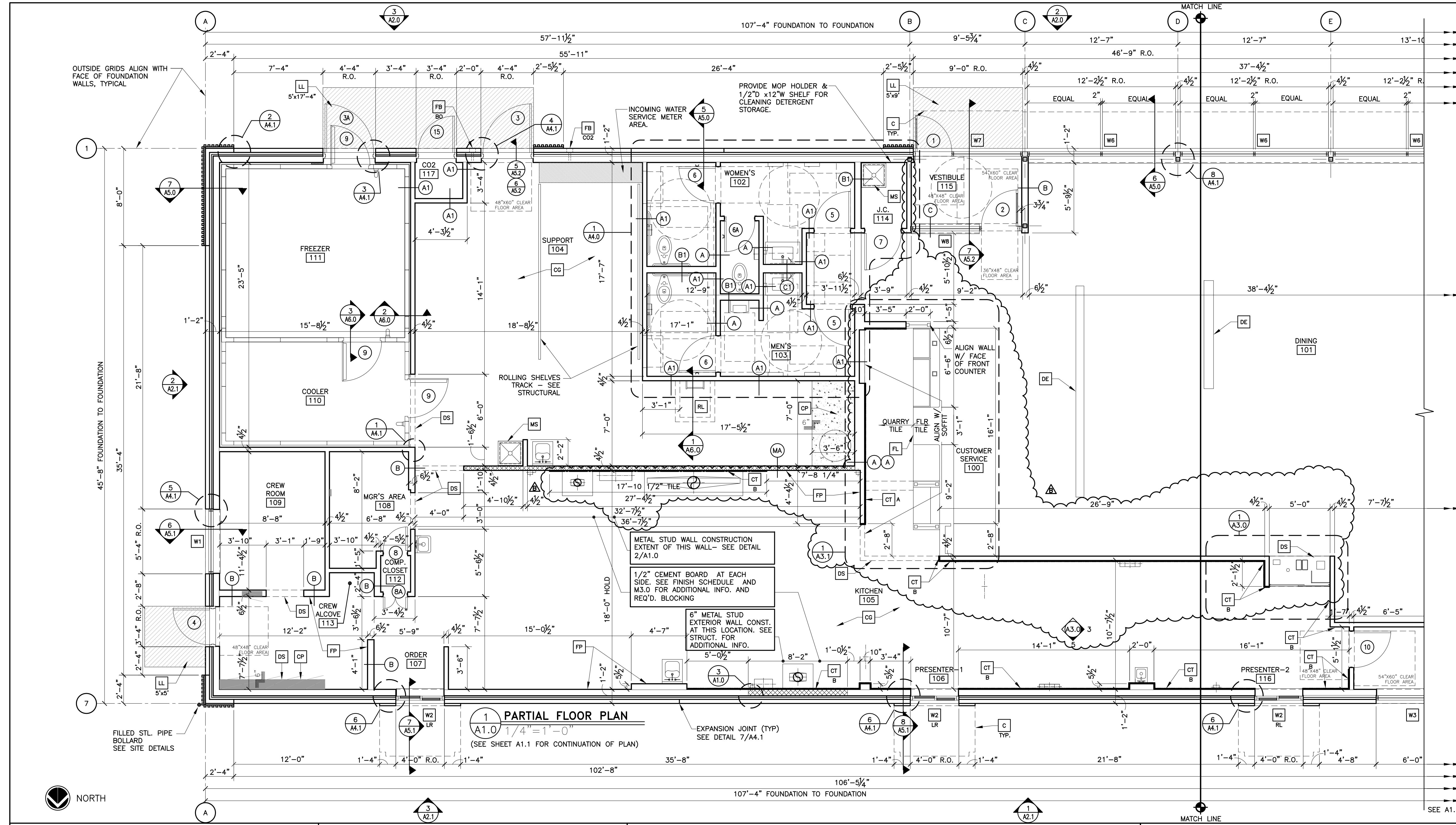
Registration Number:

PREPARED BY:
12400 ARCHITECTURE & PLANNING,
BURNSVILLE, MN 55337
EMAIL: DATA@REPRISEDIGITAL.COM
PHONE: (952) 252-4042
FAX: (952) 252-4943

McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without the express written consent of McDonald's USA, LLC. These drawings and specifications were prepared for use on this specific project and are not suitable for use on other projects or reference or exemplify another project. Reproduction, services or other unauthorized use of these drawings and documents is not authorized.

©2020 McDonald's USA, LLC
PREPARED FOR:
McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without the express written consent of McDonald's USA, LLC. These drawings and specifications were prepared for use on this specific project and are not suitable for use on other projects or reference or exemplify another project. Reproduction, services or other unauthorized use of these drawings and documents is not authorized.

RD#19175



KEY NOTES

- C ALUMINUM CANOPY SYSTEM ABOVE - SEE 4/A5.0 FOR NOTES
- SEE ROOF PLAN FOR DIMENSIONS, SEE ELEVATION FOR
COLORS AND FASCIA LOCATIONS
 - 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 WOOD SCREWS INTO WOOD BLOCKING BULLNOSE COVE
BASE WHERE TILE MEETS STAINLESS STEEL CORNER - SEE
DETAIL 4/A6.0
 - CP CONCRETE EQMT PAD - SEE STRUCTURAL & DETAIL 5/A6.0
 - CT WALL TILE: CERAMIC WALL TILE,
SIZE: 4"x12", PATTERN: STACK BOND,
^A GROUT: MAPEI ULTRACOLOR PLUS - JOINT TO BE $\frac{1}{6}$ " MAX.
SEE DECOR DRAWINGS FOR TILE AND GROUT COLOR SPEC
 - CT WALL TILE: CROSSVILLE - COLOR BY NUMBERS,
COLOR: INTUITIVE GRAY, SIZE: 4"x12", PATTERN: RUNNING BOND
^B GROUT: MAPEI 02 PEWTER - JOINT TO BE $\frac{1}{6}$ " MAX.
USE THIS TILE WHEN HIGH LRV IS REQUIRED
COORDINATE WITH McDONALD'S AREA CONSTRUCTION MANAGER
 - DE DECOR ELEMENT- VERIFY SIZE AND PLACEMENT WITH
DECOR PLANS
 - DS DROPPED SOFFIT ABOVE - SEE REFLECTED CEILING PLAN
 - FB CO2 FILL BOX (EQUIPMENT SCHEDULE ITEM 49.00)
CO2
 - FB OPTIONAL BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18)
BO CONFIRM USE WITH McDONALD'S AREA CONSTRUCTION MANAGER

- FL FLOOR LINE – CHANGE IN MATERIAL – SEE DECOR DRAWINGS**

**FP FIBERGLASS REINFORCED PLASTIC (FRP) – PANOLAM,
GRAY SMOOTH, CLASS C, .075. REFER TO ROOM FINISH
SCHEDULE SHEET A6.1 FOR INSTALLATION LOCATIONS.
FOR ORDERING, CONTACT KIMBERLY LAWSON
Kimberly_Lawson@panolam.com 1-866-925-4377**

**LL LEVEL LANDING @ EXT. DOOR W/ MAX. 2%
RUNNING/CROSS SLOPE AWAY FROM BUILDING
5'x5'**
SIZE OF LANDING

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**

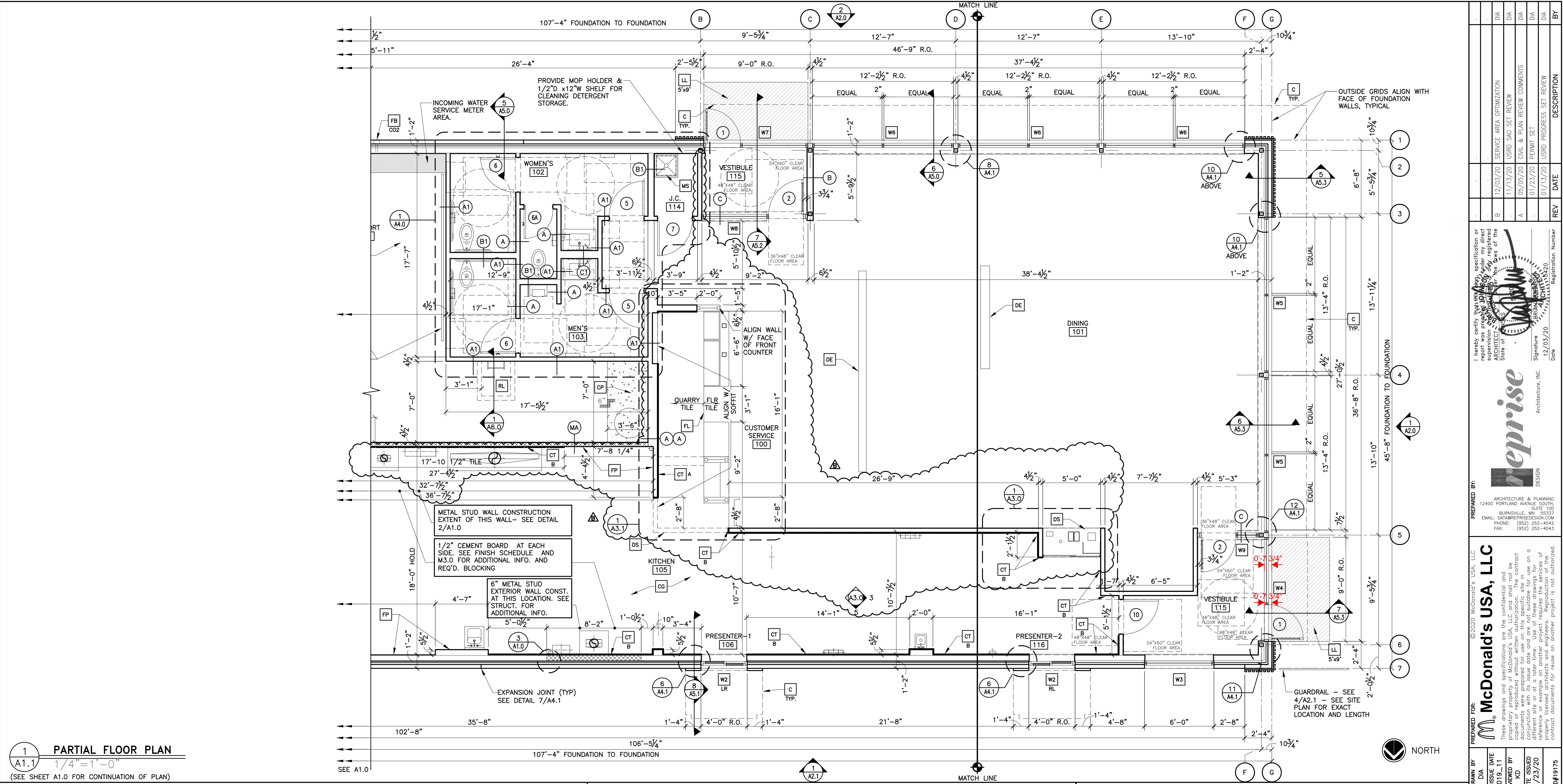
**Wx EXTERIOR WINDOW ASSEMBLY – SEE A2.0,
A2.1 & 4/A5.0 FOR ADDITIONAL NOTES**

SYMBOL LEGEND

- A** — PARTITION TYPE TAG SEE 2/A1.0 **7** DOOR TAG - SEE DOOR SCHEDULE ON
— — EXTENT OF WALL TILE **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 SCHEDULE AND SHEET A6.1 FOR ROOM FINISH SCHEDULES
 5. SEE SITE PLAN FOR SIDEWALKS, RAMPS, ETC.
 6. 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: FORREST PERMA-SIGN 1-800-214-8765; 9292 1ST ST., BOX 588, NEW ROCHELLE, NY 10802; www.forrestpermesigns.com
 7. MAXIMUM OCCUPANCY SIGN TO BE POSTED PER LOCAL CODE. SIGN FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
 8. ALL HANDSINK LOCATIONS SHALL HAVE CEMENT BOARD BACKING 48" IN HEIGHT A.F.F.
 9. GC TO COORDINATE ALL REQUIRED BLOCKING FOR WALL HUNG EQUIPMENT, SHELVES, ETC. FOR PROPER INSTALLATION HEIGHTS.
 10. KNOX BOX TO BE INSTALLED BY GENERAL CONTRACTOR PER LOCAL CODE AS REQUIRED. MODEL AND LOCATION TO BE COORDINATED WITH FIRE MARSHALL.
 11. DASHED LINES @ DOORS, RESTROOMS, & FIXTURES REPRESENT CLEAR FLOOR MANEUVERING CLEARANCES AS REQUIRED BY THE ACCESSIBILITY CODE. CLEARANCES MUST BE MAINTAINED WITHOUT EXCEPTION. IF CONDITIONS PREVENT ANY CLEAR FLOOR SPACE FROM BEING MAINTAINED, CONTACT THE ARCHITECT FOR RESOLUTION.



reprise
Architecture, INC.
DESIGN

Signature: *[Signature]*
Title: ARCHITECT
Date: 12/03/20
Registration Number: 55372
Date: 12/03/20
Signature: *[Signature]*
Title: CIVIL & PLANT DESIGNER
Date: 01/13/20
Registration Number: 55372
Date: 01/13/20

©2020 McDonald's USA, LLC
McDonald's USA, LLC
PREPARED BY:
12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, SUITE 100, BURNSVILLE, MN 55337
EMAIL: DATA@REPRISEDI.S.COM
PHONE: (952) 252-4042
FAX: (952) 252-4943

These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be reproduced or distributed outside the contract documents without the express written consent of McDonald's USA, LLC. These drawings and specifications are prepared for use on this specific project only and are not suitable for use on other projects or reference to another project. Reproduction, services or distribution of these drawings and specifications for use on other projects is not authorized.

Sheet No. 015-0071.00.B

Title: 2019 STANDARD BUILDING - BB20

Drawn by: DIA

Std Issue Date: 2019-11

Reviewed by: KJ

Date Issued: 01/23/20

Site Address: 605 SOUTH 7TH STREET, KANSAS CITY, KS

Site ID: 015-0071

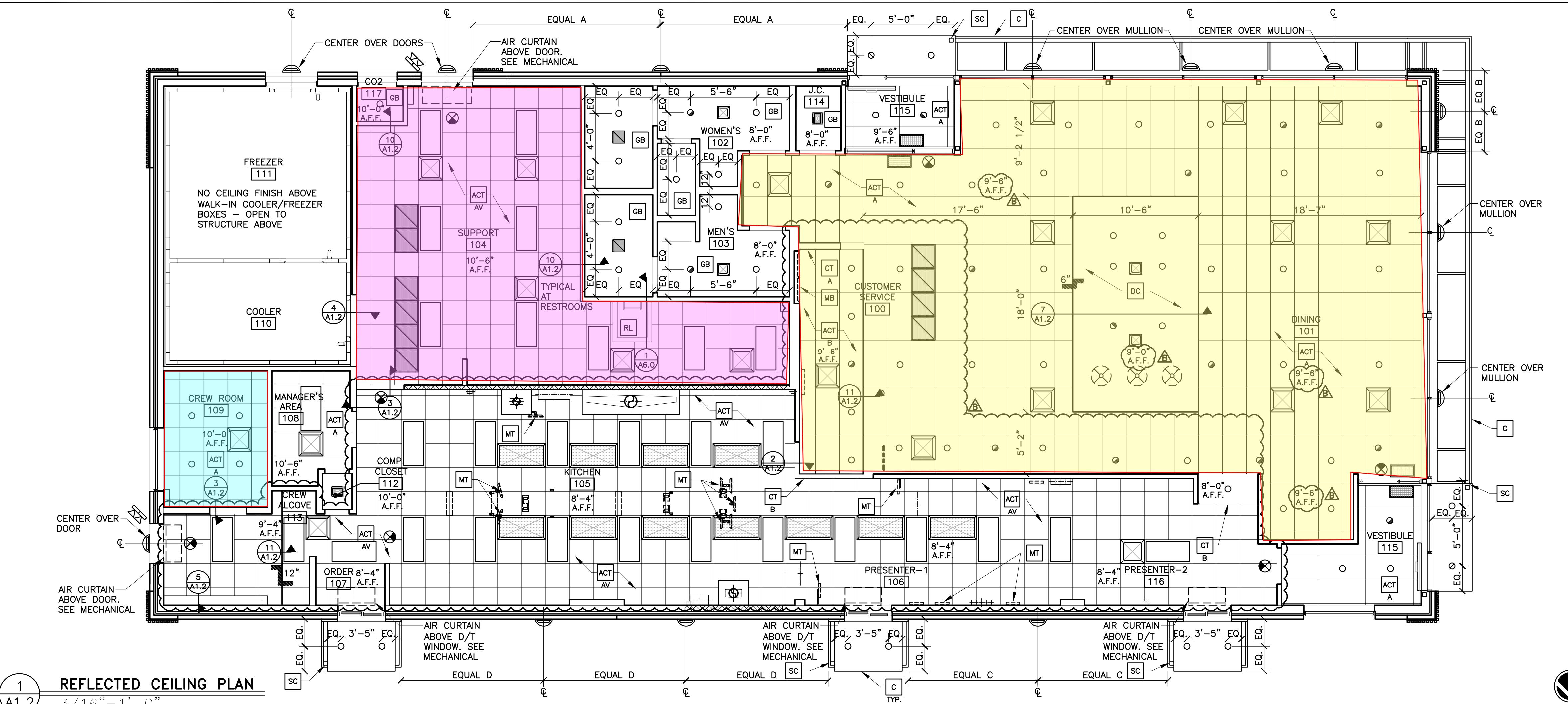
Sheet No. 015-0071.00.B

Title: 4597F10-WOOD/WOOD

Description: WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI
WOOD ROOF TRUSS FRAMING
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH

Floor Plan

A1.1



REFLECTED CEILING PLAN

3/16" = 1'-0"

KEY NOTES

- ACT A ACOUSTICAL CEILING TILE - 24"x48". VERIFY FINISHES WITH DECOR COMPANY
- ACT AV ACOUSTICAL CEILING TILE: VINYL FACED USG 24"x24" CLEAN ROOM CLIMA-PLUS. UNPERFORATED. SMOOTH TEXTURE COLOR: WHITE GRID: USG 15/16" DX/DXL COLOR: WHITE
- ACT B ACOUSTICAL CEILING TILE: USG 24"x48" PREMIER HI-LITE CLIMAPLUS KAPOK PANELS. COLOR: FLAT BLACK 205 GRID: USG 15/16" DX/DXL COLOR: BLACK
- C SC ALUMINUM CANOPY WITH INTEGRAL GUTTER AND SCUPPER - SEE 4/A5.0 FOR NOTES - SEE ROOF PLAN FOR DIMENSIONS - SEE ELEVATION FOR COLOR AND FASCIA LOCATIONS
- CT A WALL TILE: CERAMIC TILE SIZE: 4"x12", PATTERN: STACK BOND GROUT: MAPEI ULTRACOLOR PLUS - JOINT TO BE $\frac{1}{8}$ " MAX SEE DECOR DRAWINGS FOR TILE AND GROUT COLOR SPEC.
- CT B WALL TILE: CERAMIC TILE SIZE: 4"x12", PATTERN: STACK BOND GROUT: MAPEI ULTRACOLOR PLUS - JOINT TO BE $\frac{1}{8}$ " MAX SEE DECOR DRAWINGS FOR TILE AND GROUT COLOR SPEC.
- DC SUSPENDED DECORATIVE CEILING TREATMENT - SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION
- DS DROPPED SOFFIT
- DC-WH BOTTOM TO ALIGN WITH GYP BD AT EXTERIOR WINDOW HEAD MAY BE REPLACED BY ELEMENT BY DECOR SUPPLIER - CONFIRM WITH AREA CONSTRUCTION MANAGER
- GB GYPSUM BOARD CEILING
- MB MENU BOARD WITH BEZELS BY OTHERS UNDER SEPARATE PERMIT - SEE ELEC PLANS
- 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

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

ACT	AV	CT	DC	DS	DC-WH	GB	MB	MT	RL	SC	BY

I hereby certify that the above specification or report was prepared under my direct supervision and direction and is my responsibility. I am not a registered architect. I am not responsible for the drawings of the project.

Signature: *[Signature]* Date: *[Date]*

Registration Number: *[Registration Number]*

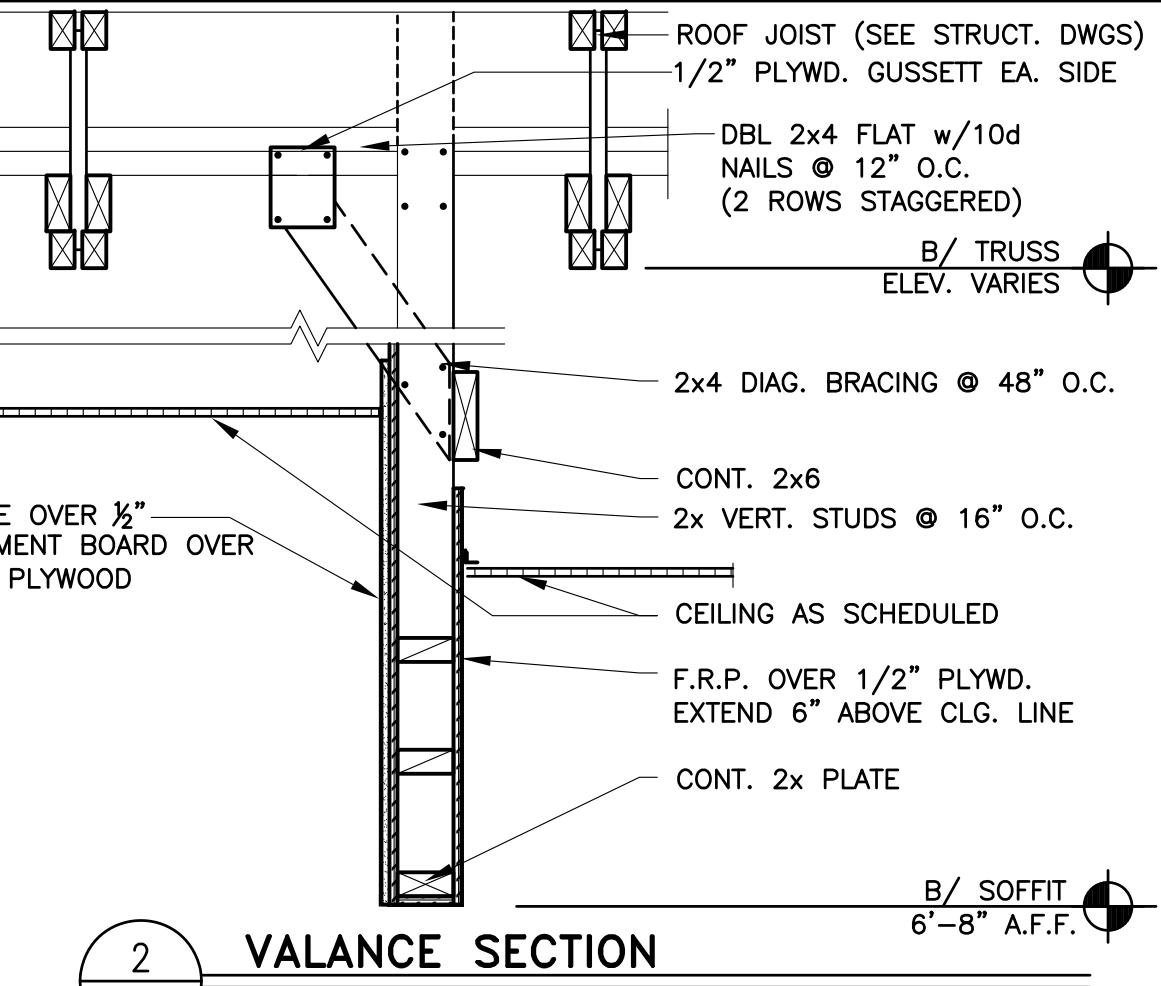
PREPARED BY:
12400 ARCHITECTURE & PLANNING SOUTH, SUITE 100
BURNSVILLE, MN 55337
PHONE: (952) 252-4042
FAX: (952) 252-4943

©2020 McDonald's USA, LLC

These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without the express written consent of McDonald's USA, LLC. These drawings and specifications are intended for use on this specific project only. They are not to be used for any other purpose, in whole or in part, without the express written consent of McDonald's USA, LLC. Any unauthorized use, copying or reproduction of these drawings and specifications is prohibited.

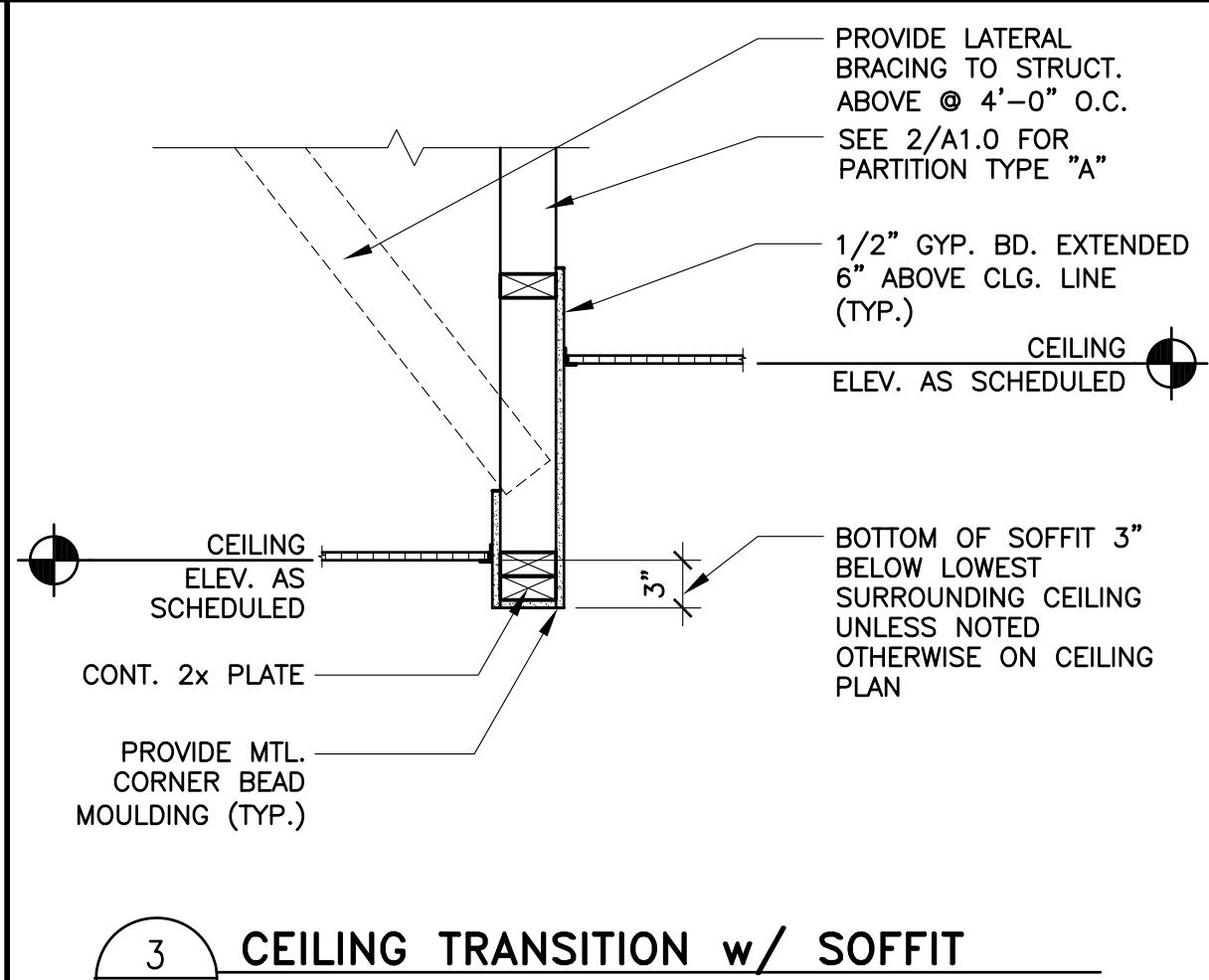
DRAWN BY: DIA STD ISSUE DATE: 2019-11 REVIEWED BY: KO DATE ISSUED: 01/23/20

RD#19175



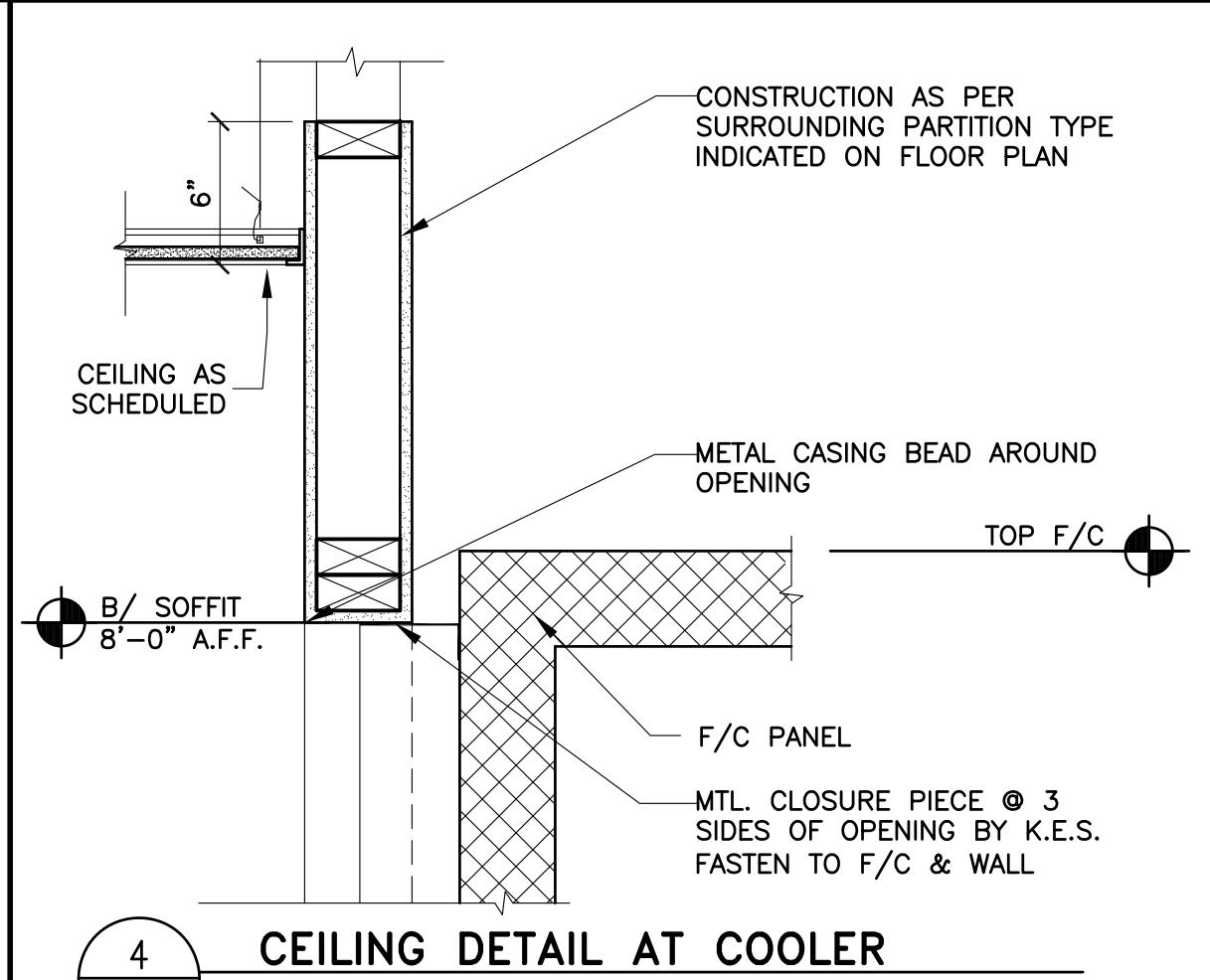
VALANCE SECTION

A1.2 1" = 1'-0"



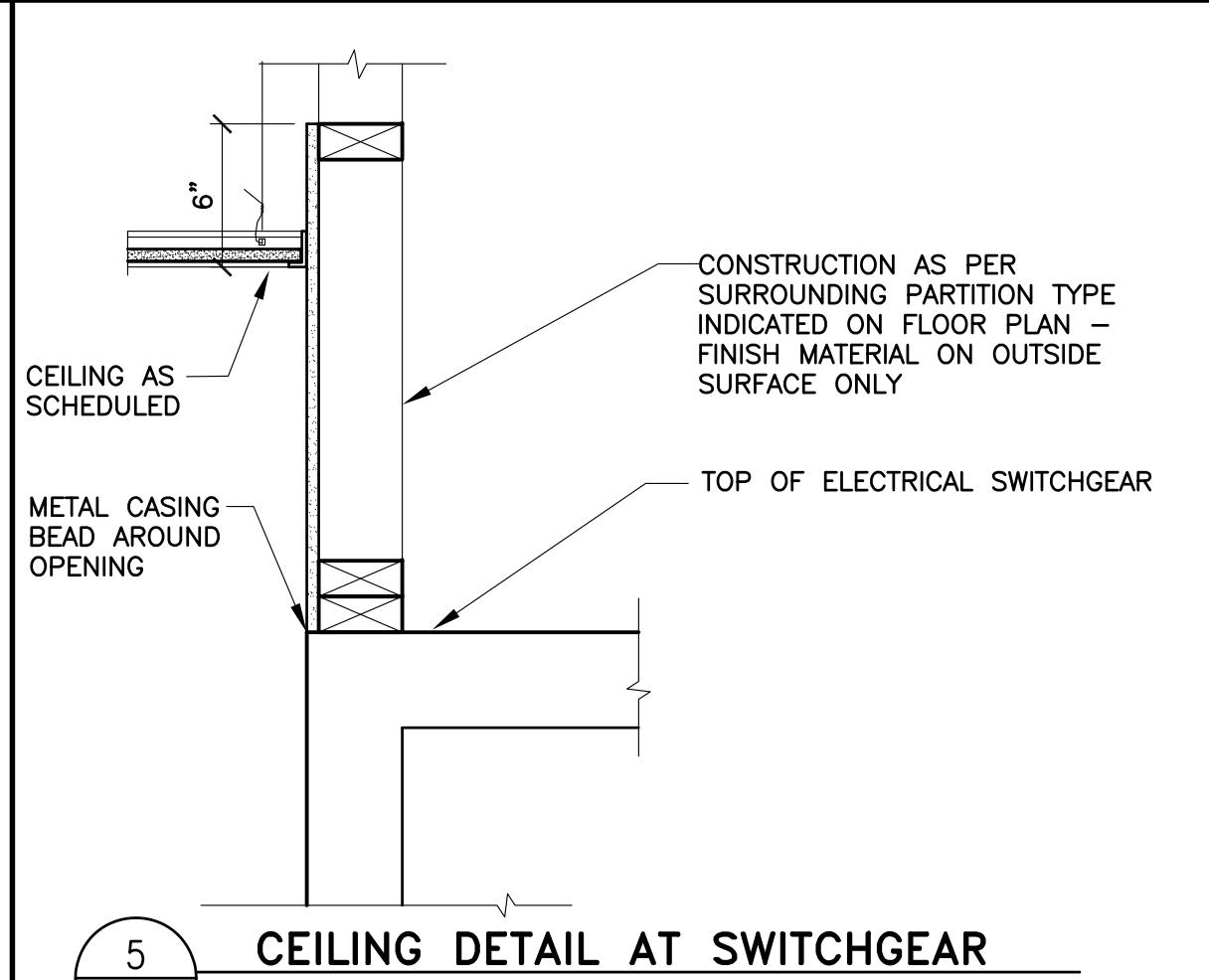
CEILING TRANSITION w/ SOFFIT

A1.2 1" = 1'-0"



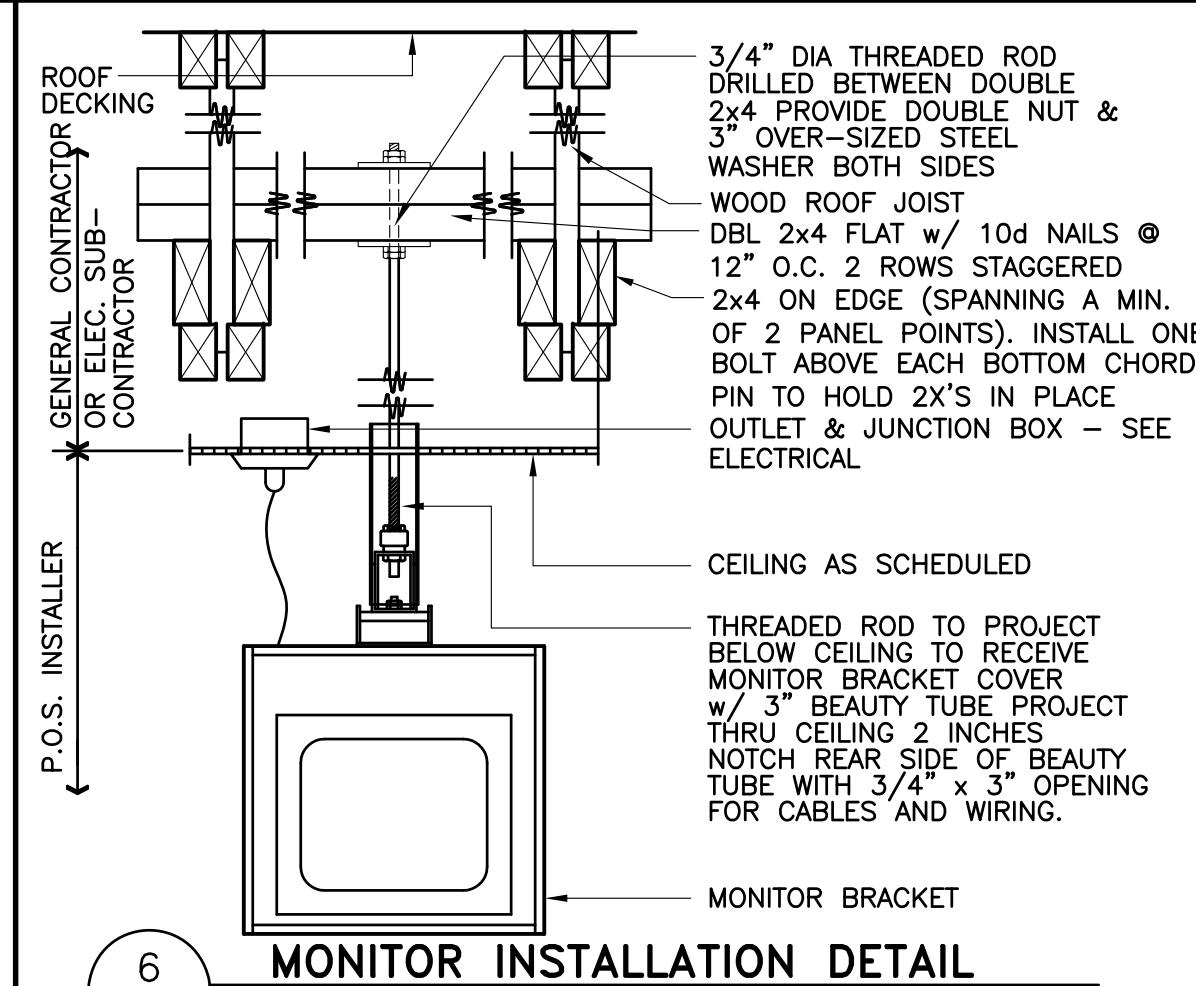
CEILING DETAIL AT COOLER

A1.2 1 1/2" = 1'-0"



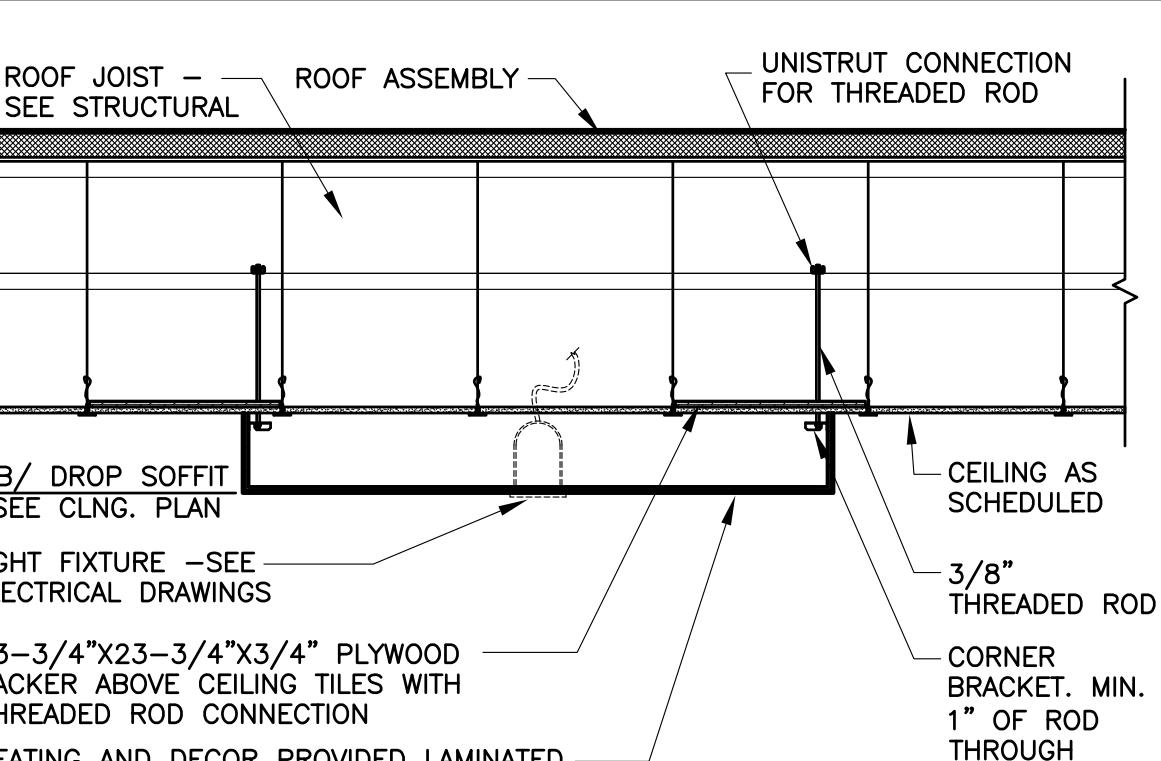
CEILING DETAIL AT SWITCHGEAR

A1.2 1 1/2" = 1'-0"



MONITOR INSTALLATION DETAIL

A1.2 N.T.S.



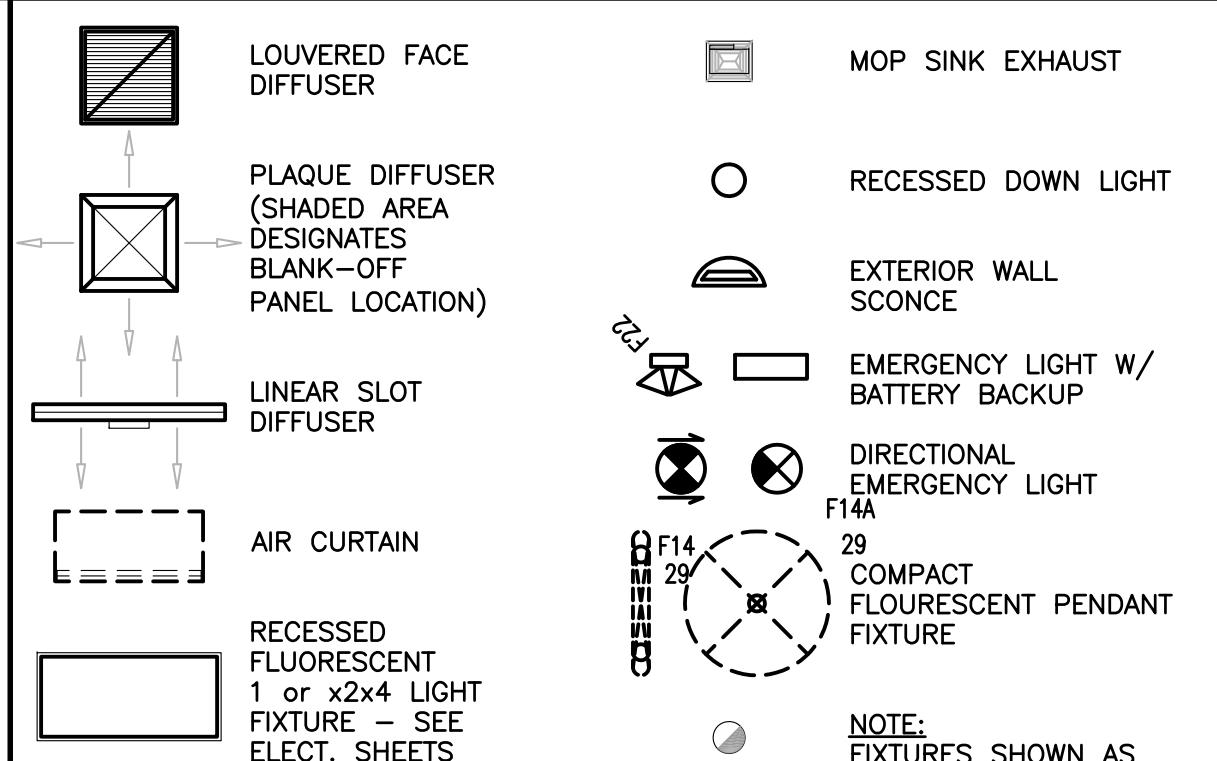
CEILING TRANSITION w/ SOFFIT

A1.2 1/2" = 1'-0" COORDINATE w/ DECOR



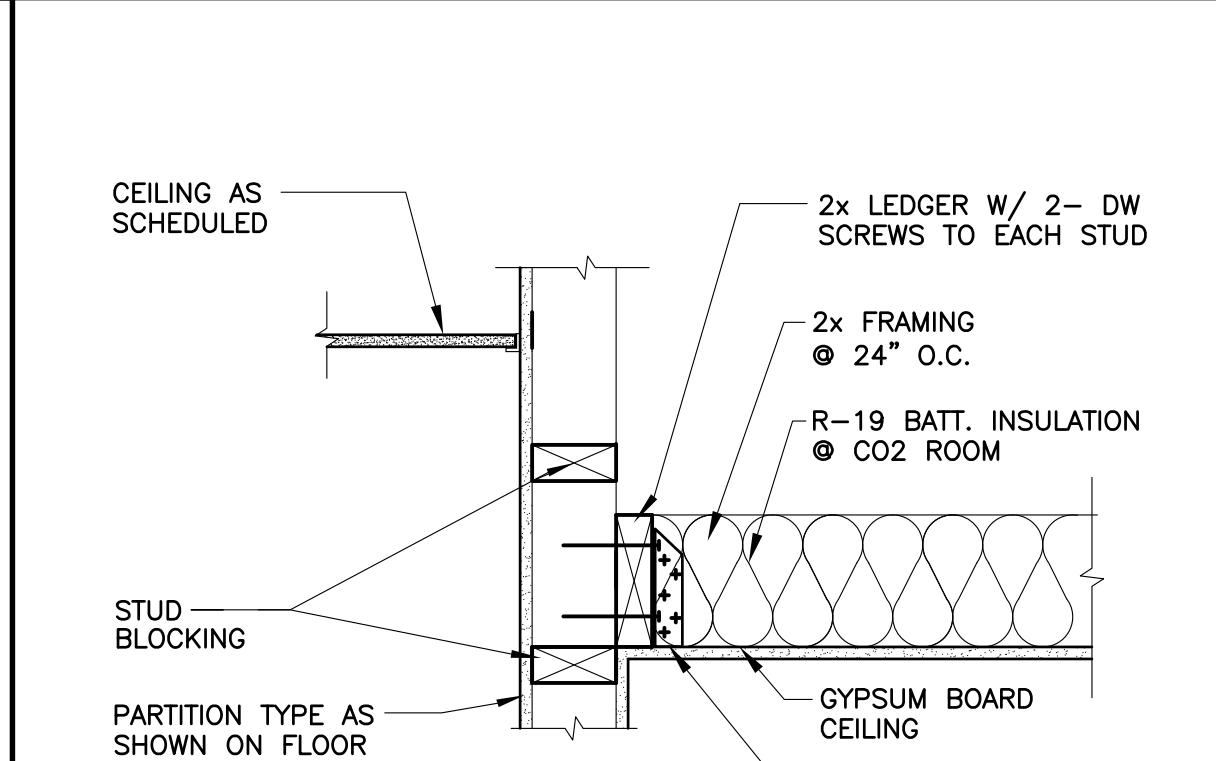
DETAIL NOT USED

A1.2 NOT TO SCALE



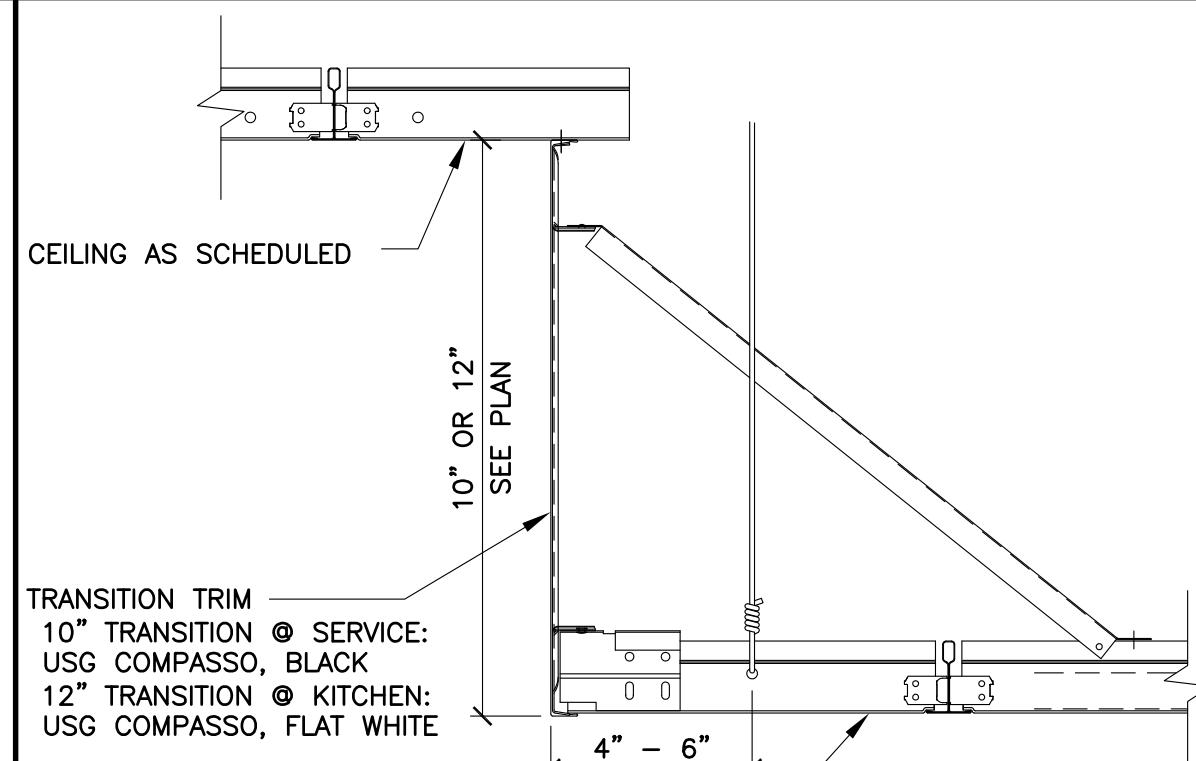
SYMBOL LEGEND

A1.2 NOT TO SCALE



GYP BD CEILING DETAIL

A1.2 1 1/2" = 1'-0" A0610WB1

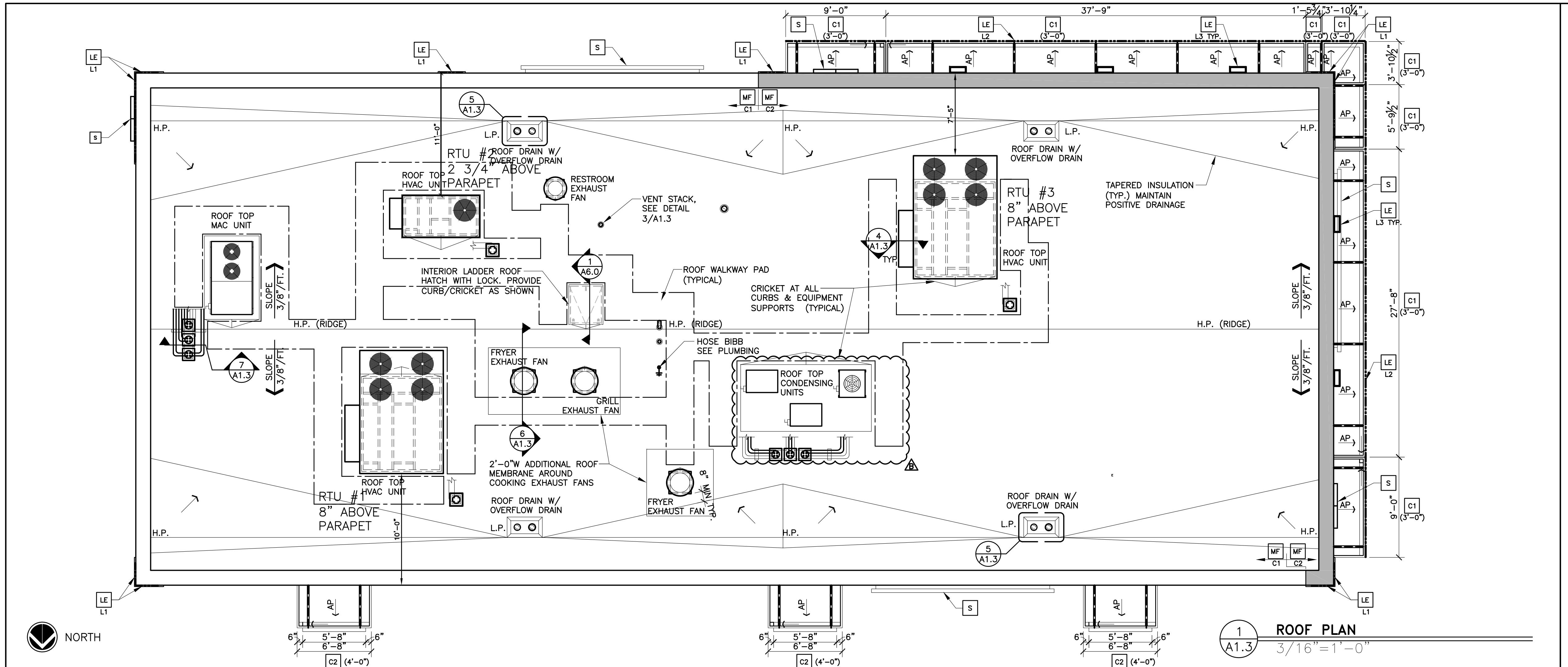


ACOUSTIC CEILING TRANSITION

A1.2 N.T.S. COORDINATE w/ DECOR

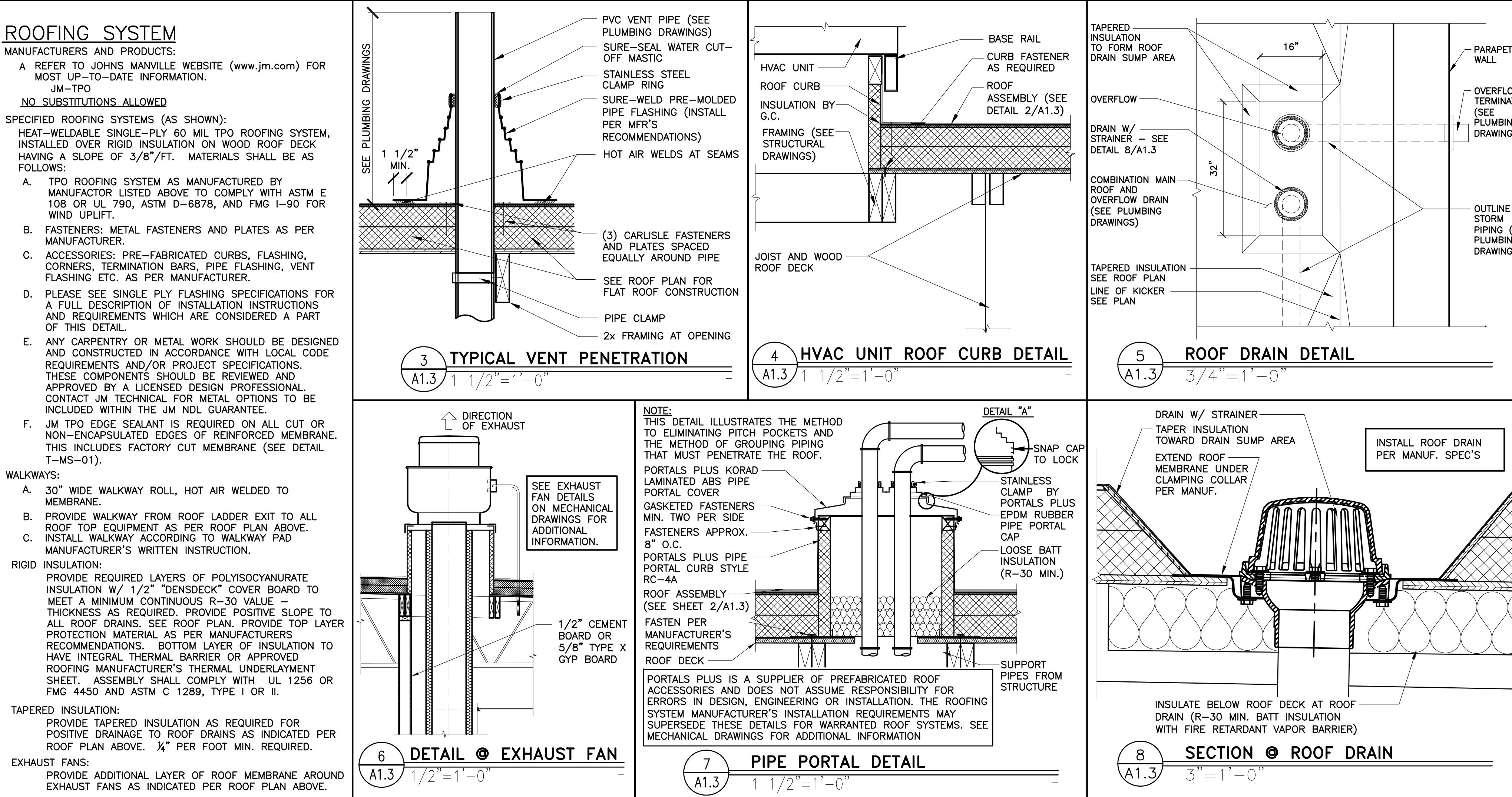
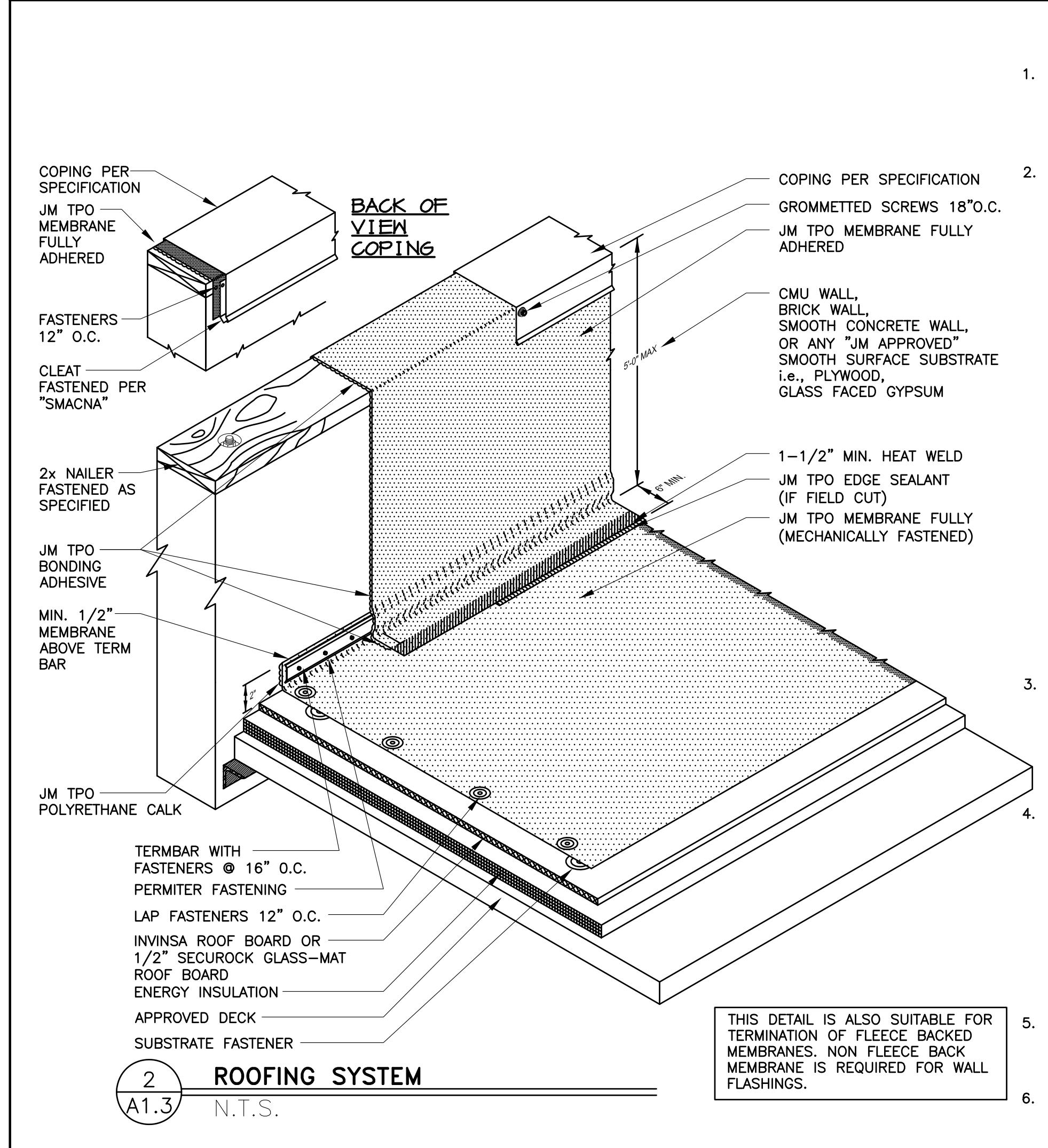
SHEET NO.	TITLE	DESCRIPTION	STD ADDRESS
015-0071.00.B	2019 STANDARD BUILDING - BB20 459-F10-WOOD/WOOD	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/AUPOIC PANEL/BRICK EXT. FINISH	605 SOUTH 7TH STREET, KANSAS CITY, KS 015-0071

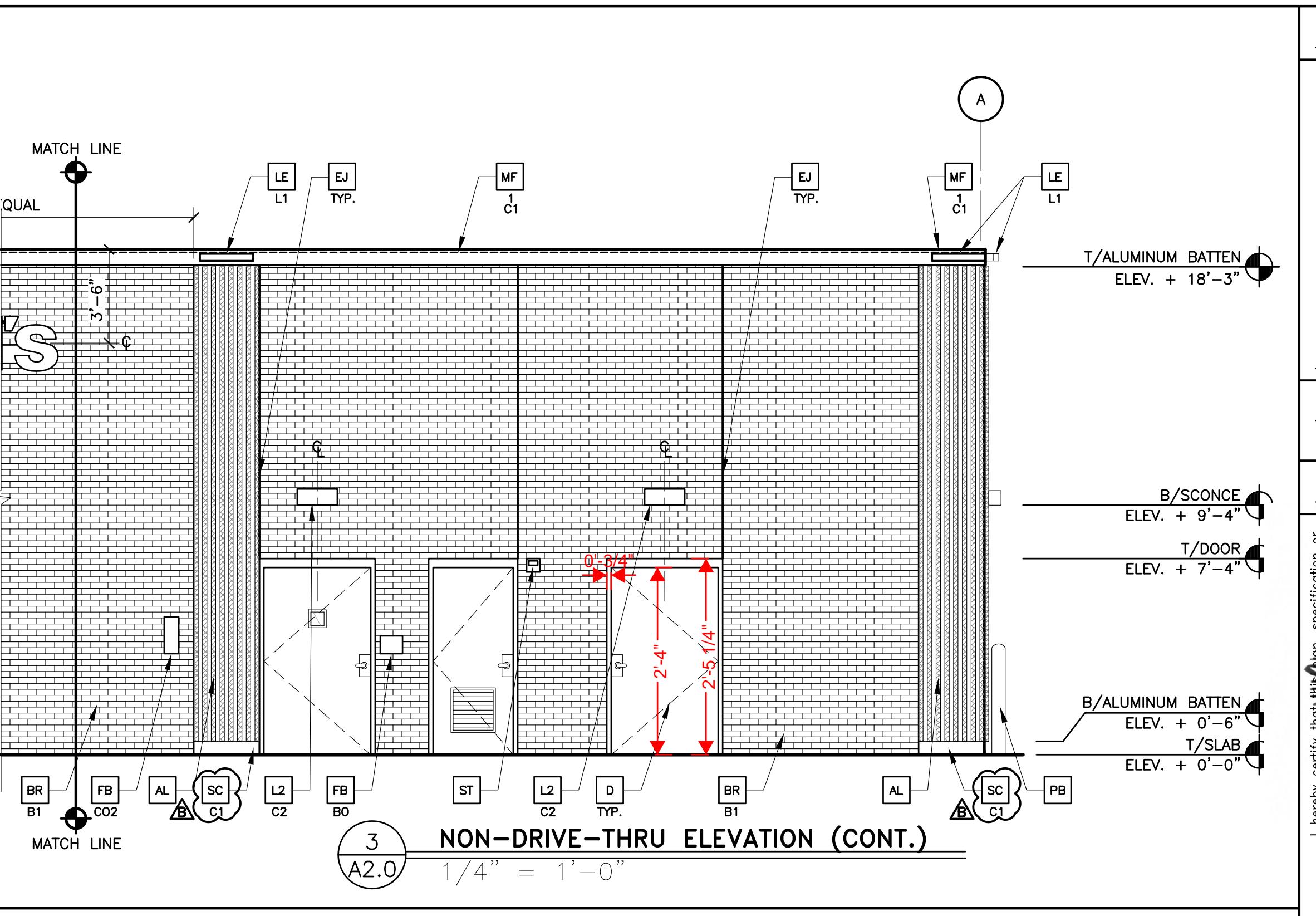
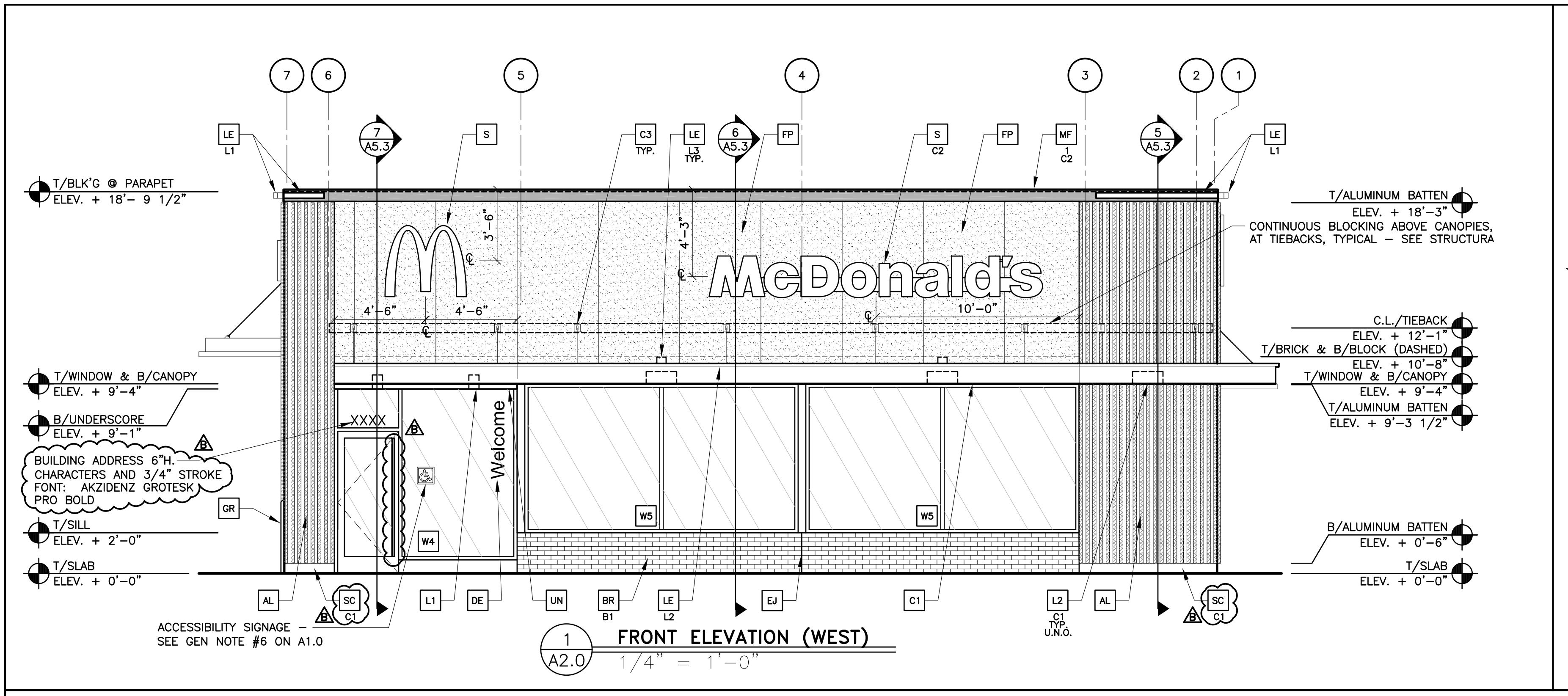
A1.2 REFLECTED CLG. PLAN



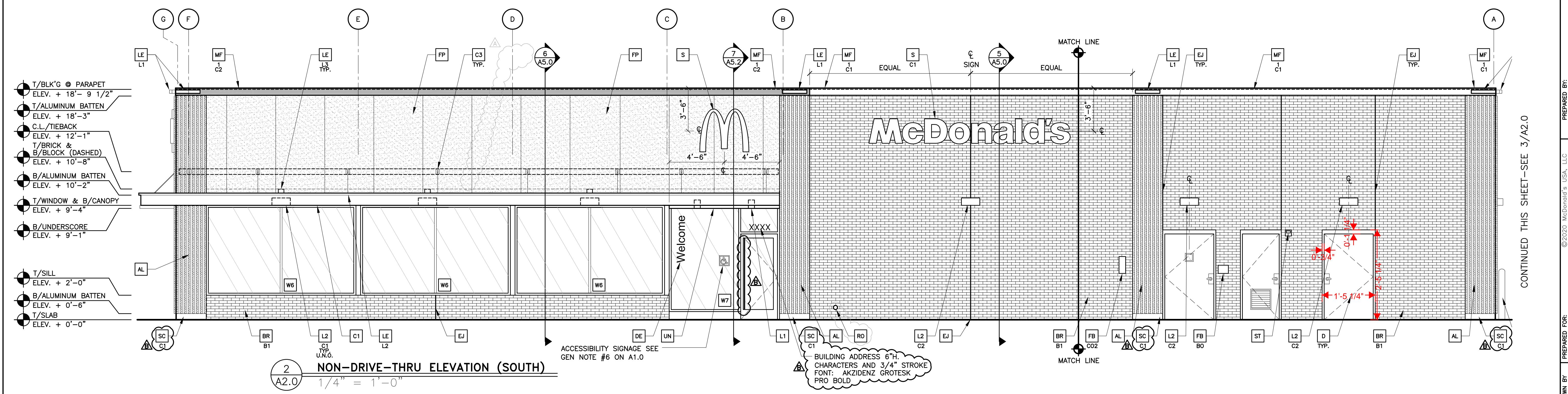
SHEET NO.	TITLE	REV	DATE	DESCRIPTION
	2019 STANDARD BUILDING - BB20	B	12/03/20	SERVICE AREA OPTIMIZATION
	459/F10-WOOD/WOOD	A	05/15/20	USFD SA SET REVIEW
			11/15/20	CIVIL & PLAN REVIEW COMMENTS
			01/23/20	PERMIT SET
			01/13/20	USD PROGRESS SET REVIEW
				BY

PREPARED BY:	McDonald's USA, LLC	DRAWN BY:	REVIEWED BY:	DATE ISSUED:	DATE REVISED:	SITE ADDRESS:
© 2020 McDonald's USA, LLC	© 2020 McDonald's USA, LLC	DIA 2019-11	KO	01/23/20	RD#19175	605 SOUTH 7TH STREET, KANSAS CITY, KS



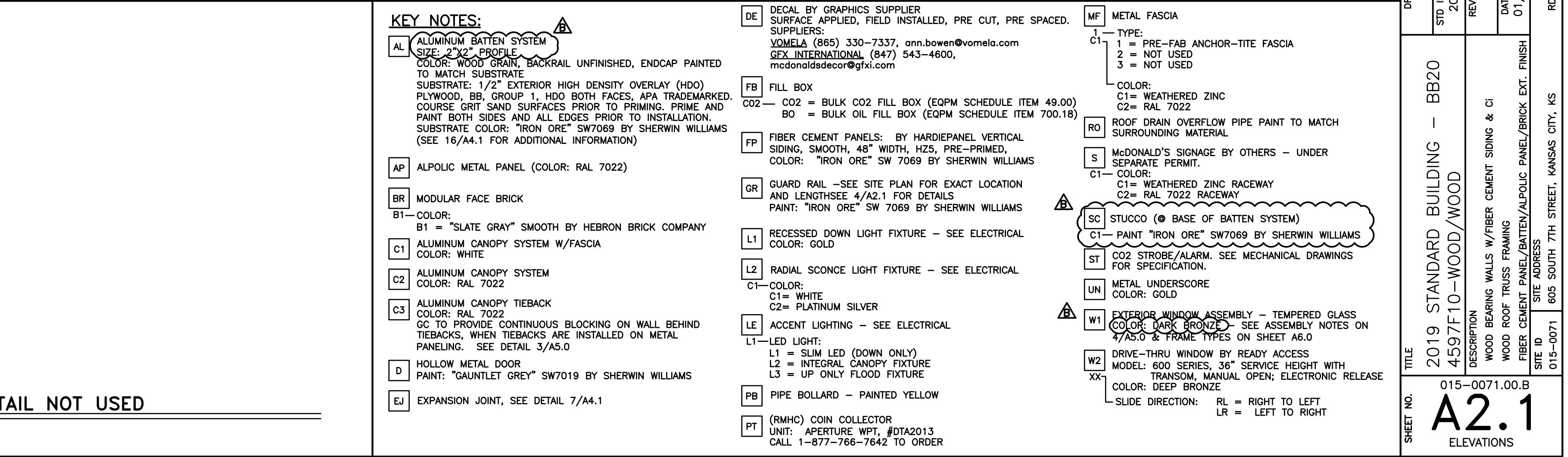
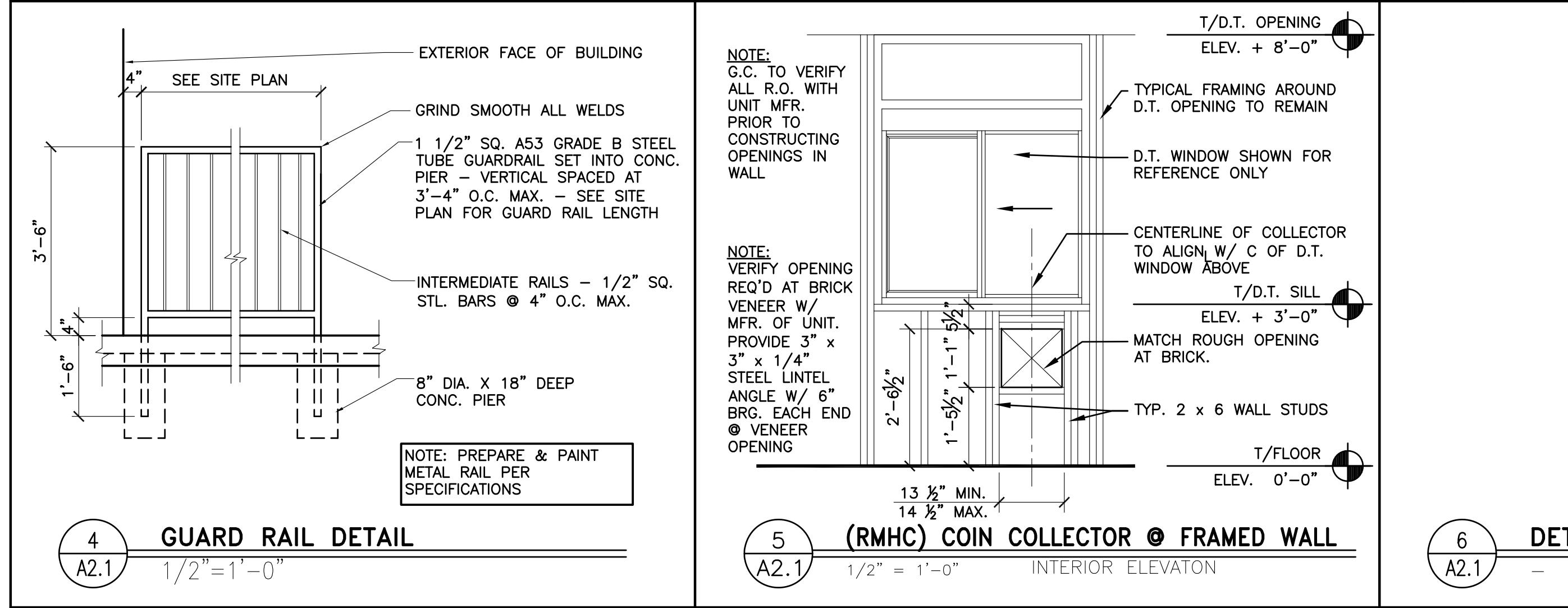
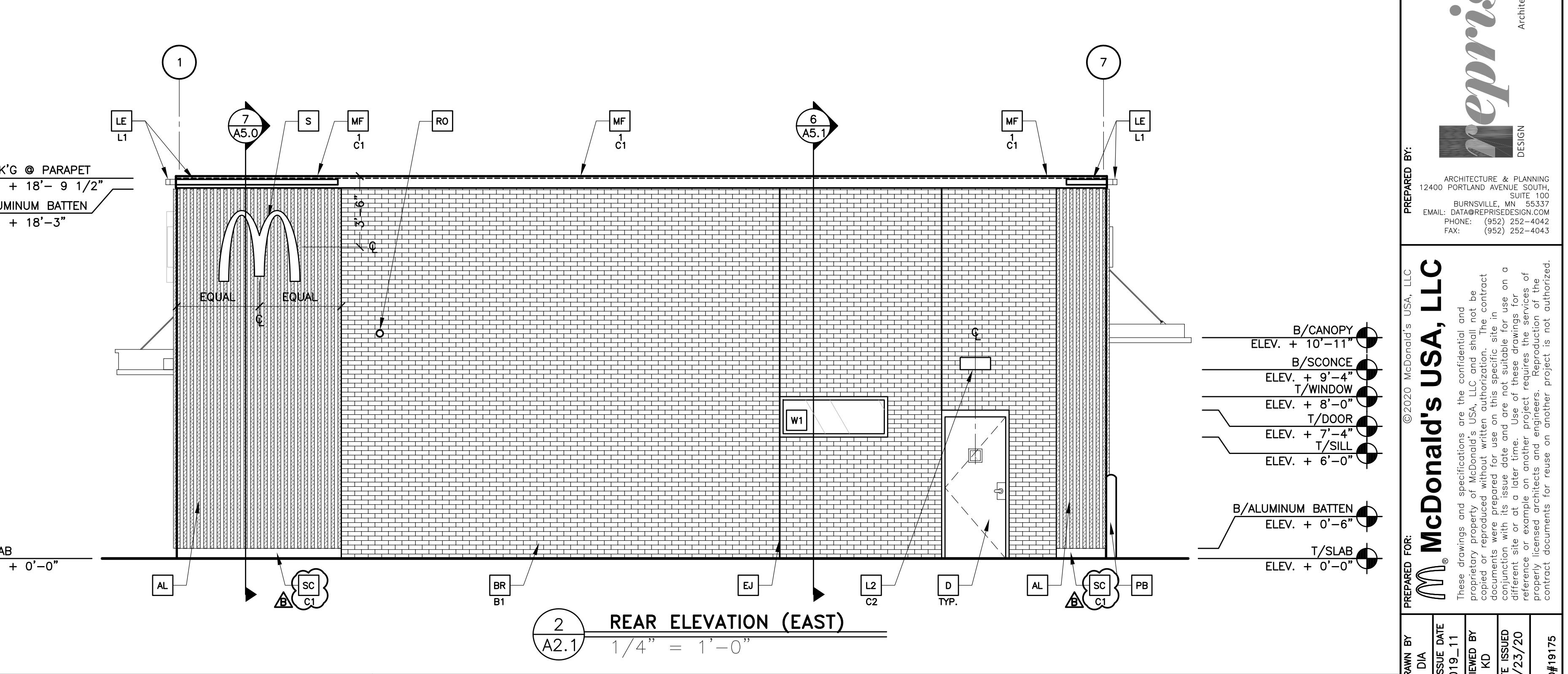
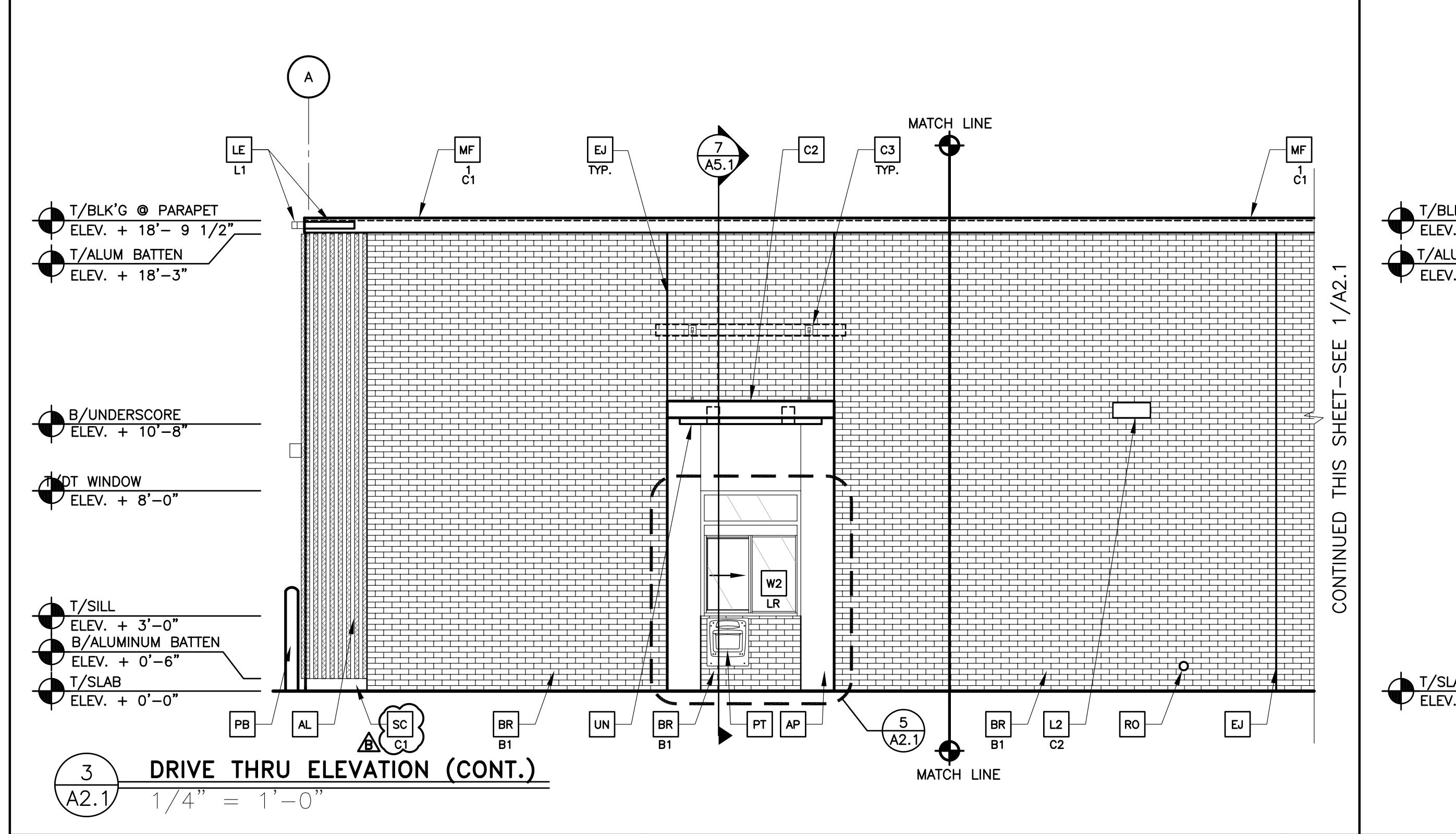
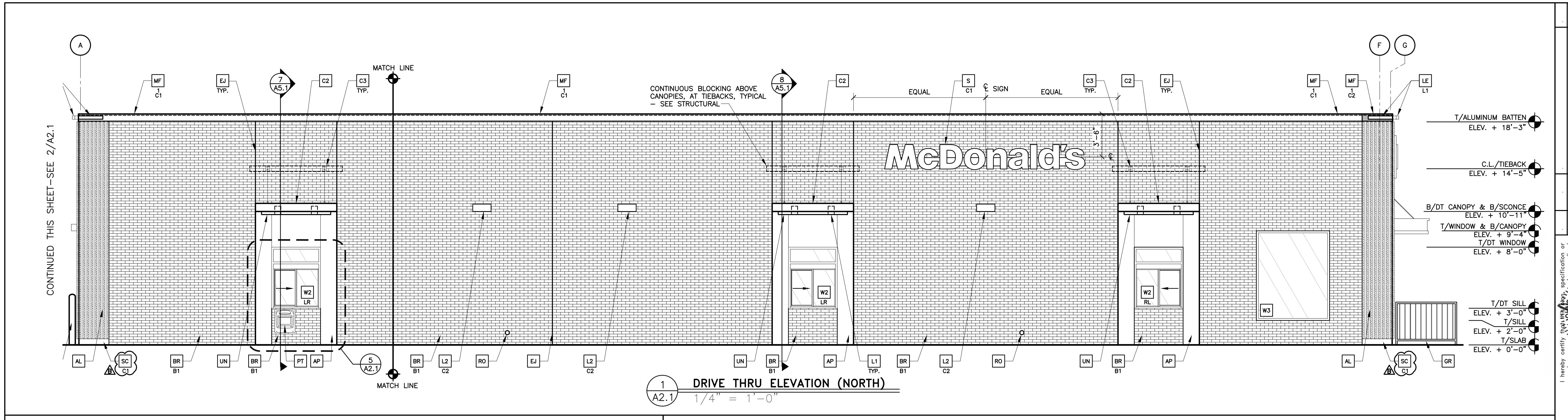


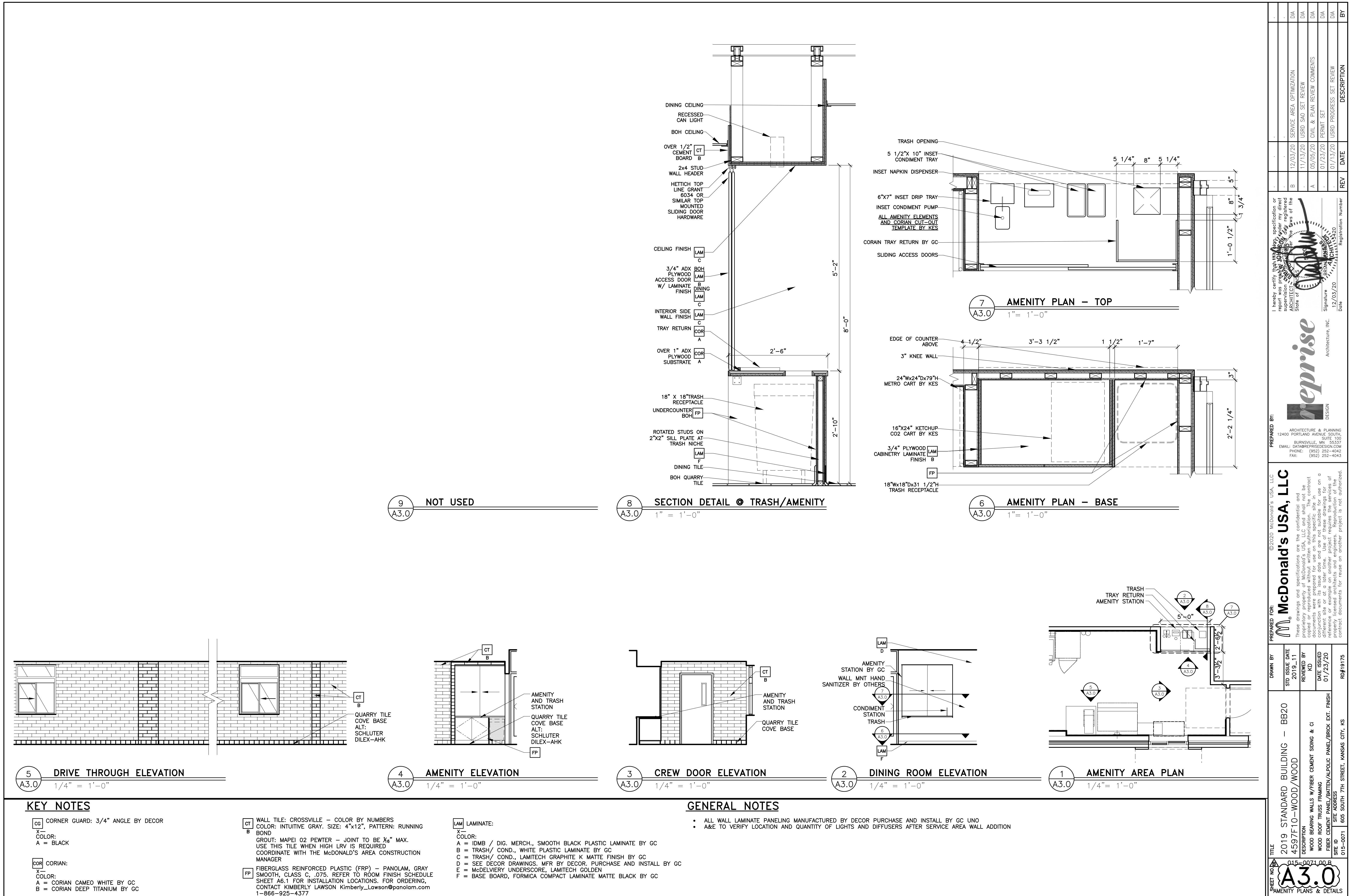
REVISION	DATE	DESCRIPTION
B	12/03/20	USED S&O SET REVIEW COMMENTS
A	05/05/20	CIVIL & PLAN REVIEW COMMENTS
DIA	01/23/20	PERMIT SET
DIA	01/13/20	USED PROGRESS SET REVIEW
DIA	BY	Signature: Brian A. Schaeffer, AIA, LEED AP, NCARB, CDT, AIA Registration Number: 12400 Date: 12/03/20

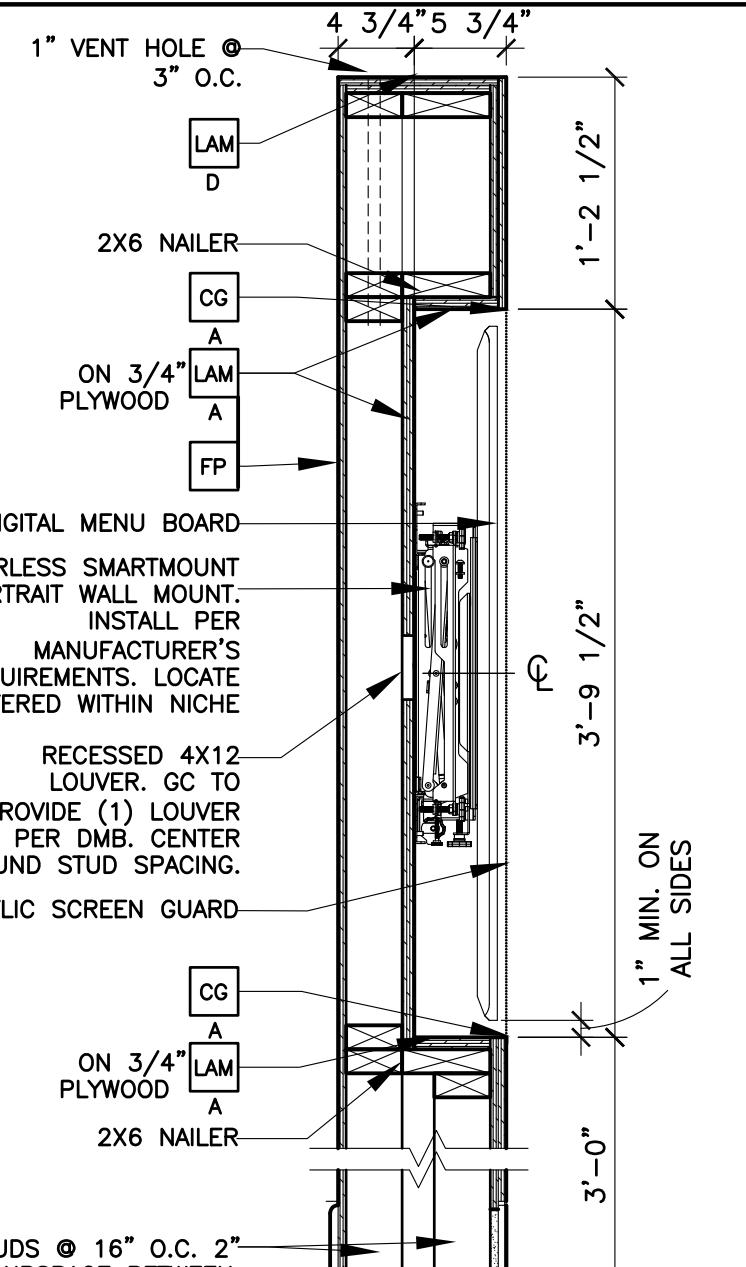


PREPARED BY:	McDonald's USA, LLC
DESIGN	©2020 McDonald's USA, LLC
12400 ARCHITECTURE & PLANNING 12400 PORTLAND AVENUE SOUTH, SUITE 100 BURNSVILLE, MN 55337 EMAIL: DATAREPRESENTER@MCD.COM PHONE: (952) 252-4042 FAX: (952) 252-4943	
PREPARED FOR:	
McDonald's USA, LLC	
These drawings and specifications are the confidential and proprietary of McDonald's USA, LLC and shall not be reproduced or distributed outside of the project team or its specific client without written permission from McDonald's USA, LLC. These drawings and specifications are prepared for use on this specific project only. They are not suitable for use on other projects or for reference or example. Any unauthorized use of these drawings and specifications is prohibited.	

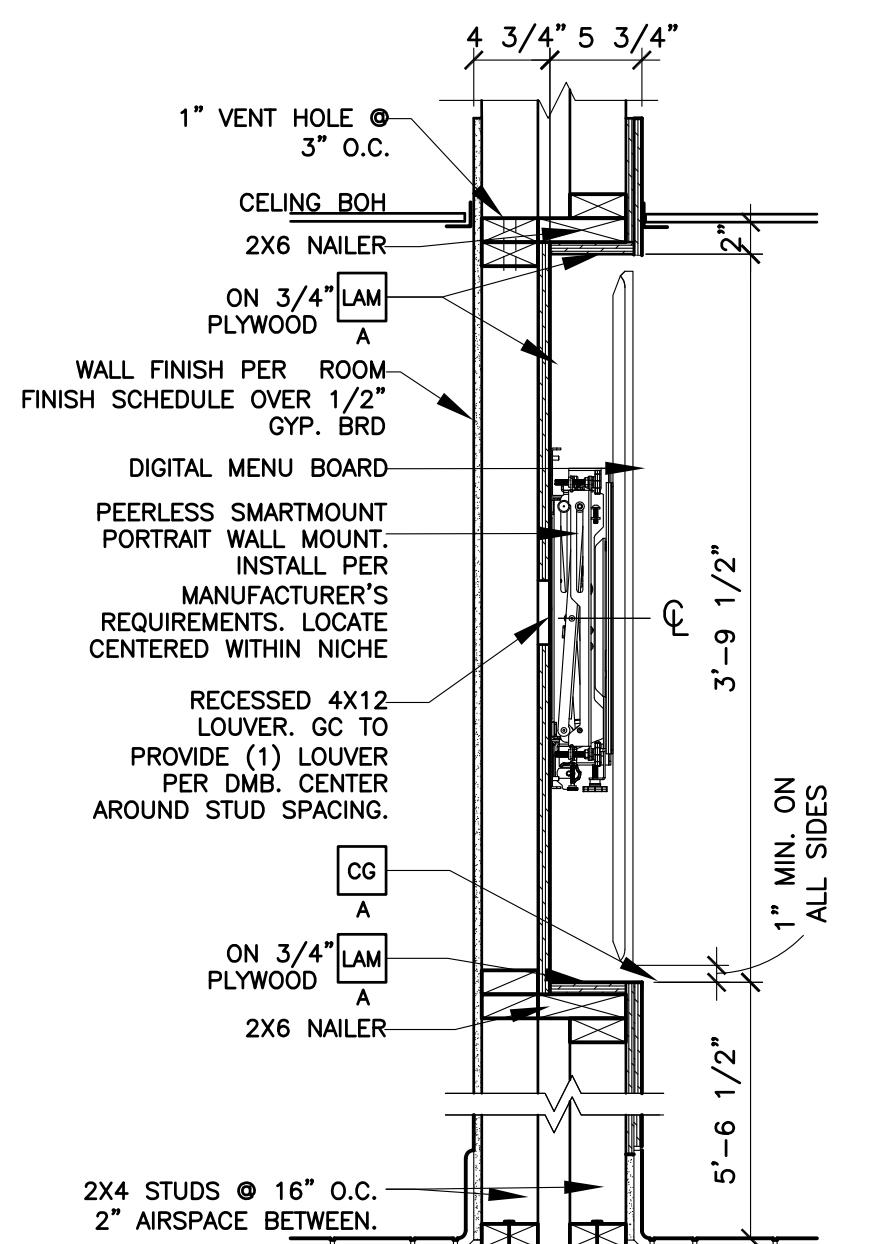
KEY NOTES:	
[A1] ALUMINUM BATTEN SYSTEM COLOR: WOOD GRAIN BACKRAIL UNFINISHED, ENDCAP PAINTED TO MATCH SUBSTRATE SUBSTRATE: 1/2" EXTERIOR HIGH DENSITY OVERLAY (HDO) PLYWOOD, BB GROUP 1, HDO BOTH FACES APA TRADEMARKED COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS PAINT BOTH SIDES AND ALL EDGES PRIOR TO INSTALLATION SUBSTRATE COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS (SEE 16/A.1 FOR ADDITIONAL INFORMATION)	[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@gfx.com
[A2] ALPOLIC METAL PANEL (COLOR: RAL 7022)	[MF] METAL FASCIA C1 = PRE-FAB ANCHOR-TIE FASCIA C2 = NOT USED C3 = WEATHERED ZINC C4 = RAL 7022
[BR] MODULAR FACE BRICK BT-COLOR: BT = "SLATE GRAY" SMOOTH BY HEBRON BRICK COMPANY	[FB] FILL BOX C02 = CO2 BULK CO2 FILL BOX (EQPM SCHEDULE ITEM 49.00) BO = BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18)
[C1] ALUMINUM CANOPY SYSTEM W/FASCIA COLOR: WHITE	[FP] FIBER CEMENT PANELS: BY HARDEIPANEL VERTICAL SIDING, 48" WIDTH, HZ5, PRE-PRIMED, COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
[C2] ALUMINUM CANOPY SYSTEM COLOR: RAL 7022	[GR] GUARD RAIL - SEE SITE PLAN FOR EXACT LOCATION AND LENGTHSEE 4/A2.1 FOR DETAILS PAINT: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
[C3] ALUMINUM CANOPY TIEBACK COLOR: RAL 7022 GC TO PROVIDE CONTINUOUS BLOCKING ON WALL BEHIND TIEBACKS, WHEN TIEBACKS ARE INSTALLED ON METAL PANELING. SEE DETAIL 3/A5.0	[L1] RECESSED DOWN LIGHT FIXTURE - SEE ELECTRICAL COLOR: GOLD
[D] HOLLOW METAL DOOR PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS	[L2] RADIAL SCONCE LIGHT FIXTURE - SEE ELECTRICAL C1-COLOR: C1 = WHITE C2 = PLATINUM SILVER
[EJ] EXPANSION JOINT, SEE DETAIL 7/A4.1	[LE] ACCENT LIGHTING - SEE ELECTRICAL L1 = SLIM LED (DOWN ONLY) L2 = INTEGRAL CANOPY FIXTURE L3 = UP ONLY FLOOD FIXTURE
	[PB] PIPE BOLLARD - PAINTED YELLOW
	[PT] (RMHC) COIN COLLECTOR UNIT: APERTURE WPT, #DTA2013 CALL 1-877-766-7642 TO ORDER
	SLIDE DIRECTION: RL = RIGHT TO LEFT LR = LEFT TO RIGHT
SHEET NO. 015-0071.00.B	TITLE 2019 STANDARD BUILDING - BB20
SITE ID 015-0071	DESCRIPTION 4.59'F10-WOOD/WOOD
SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS	



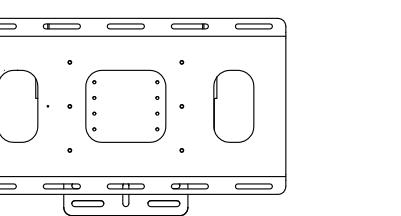




11 SECTION @ DIGITAL MERCHANDISER

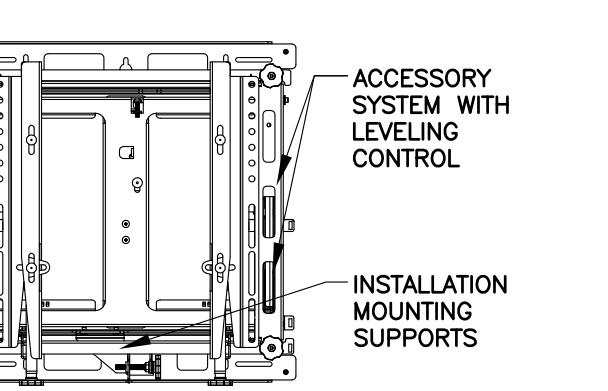


SECTION @ MENU BOARDS



DER READY BOARD (ORB)

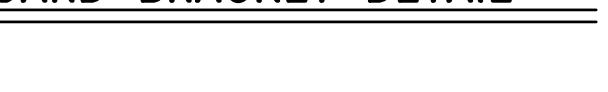
WALL BRACKET



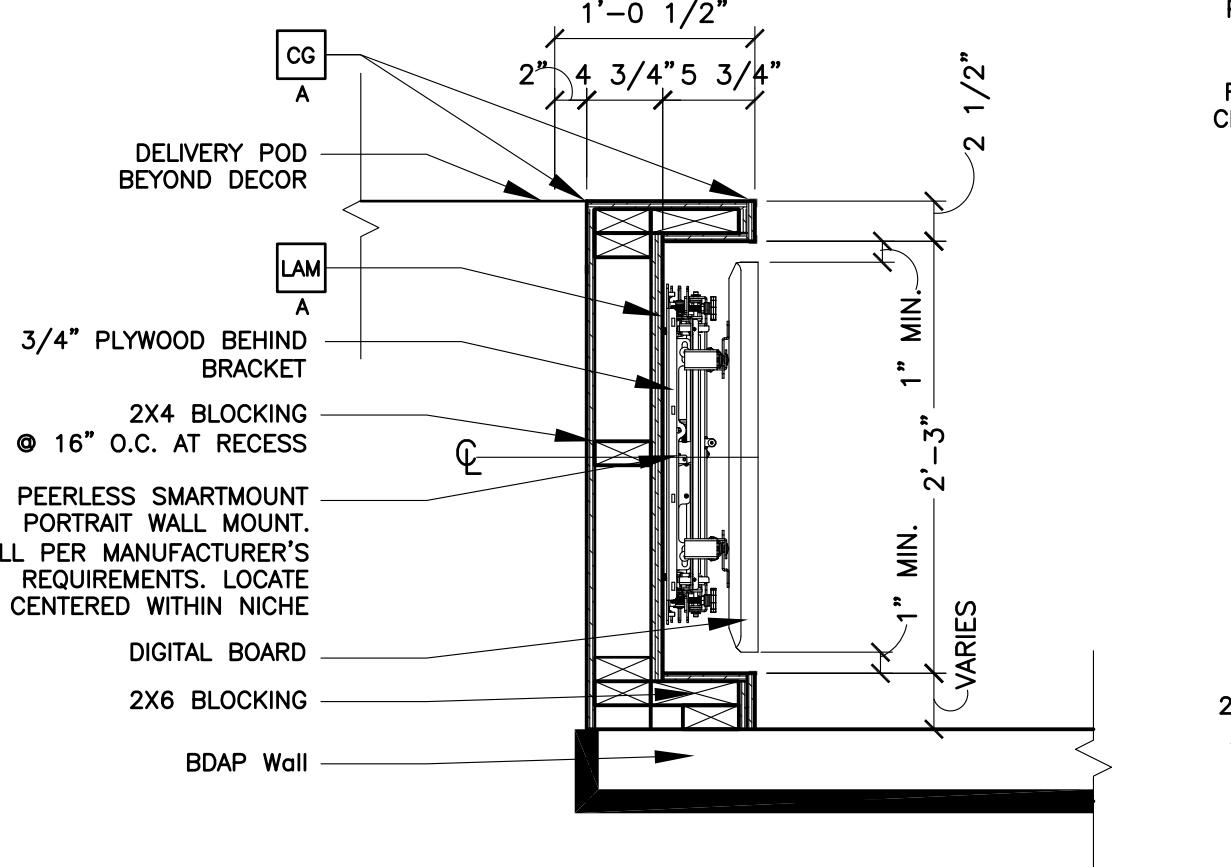
DIGITAL MERCHANDISER /
NU BOARD WALL BRACKET

STUDS OR 3/4" PLYWOOD BACKING
FACTURER'S INSTALLATION INSTRUCTIONS

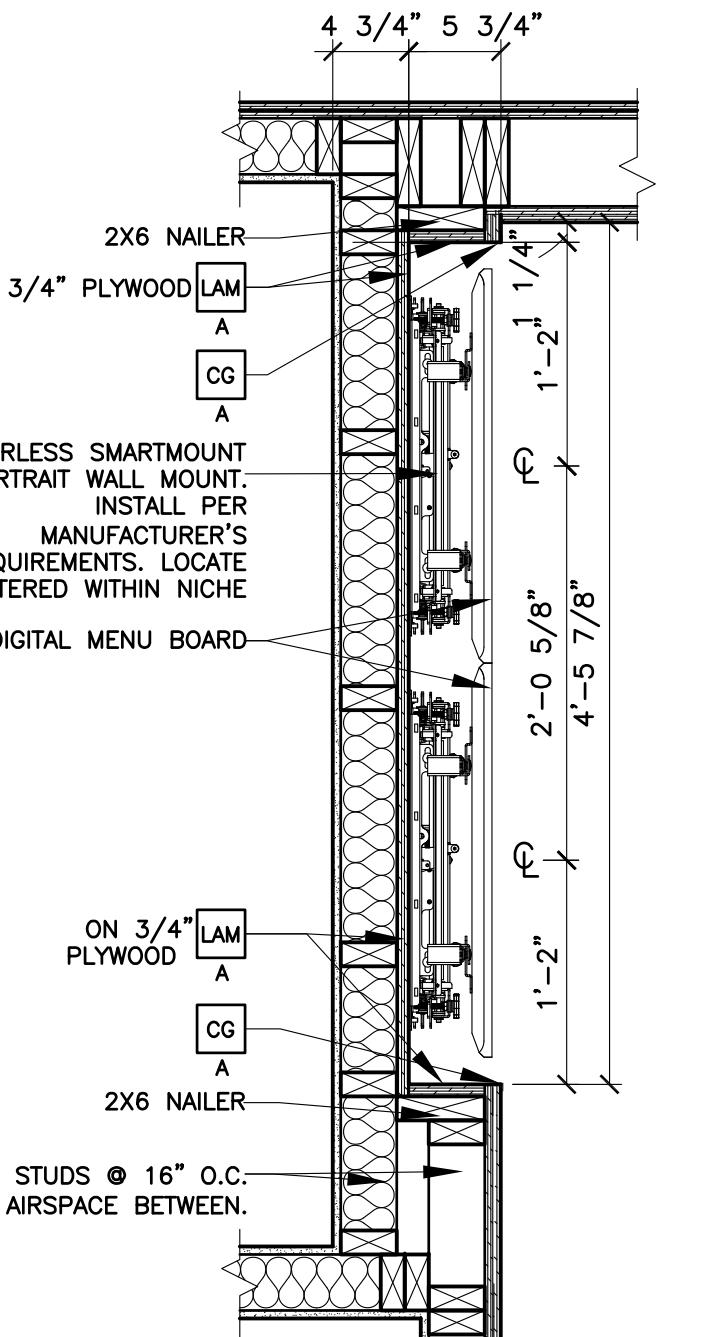
- SECURE TO STUDS OR 3/4" PLYWOOD BACKING
FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS**



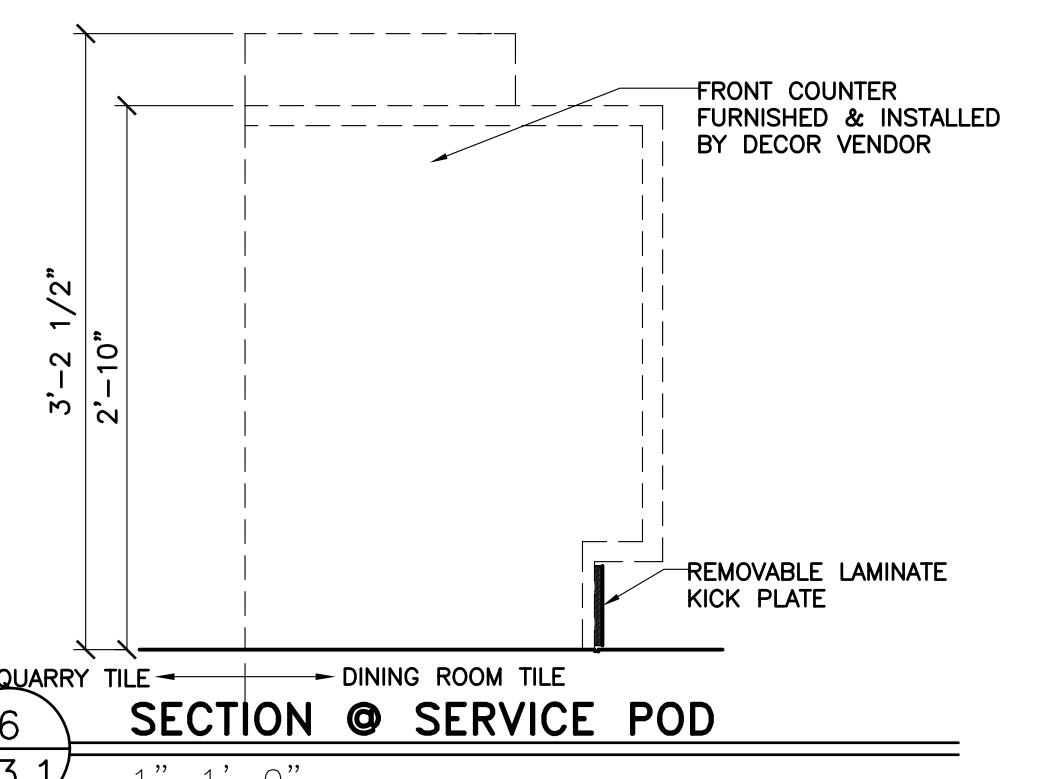
DIGITAL BOARD BRACKET DETAIL



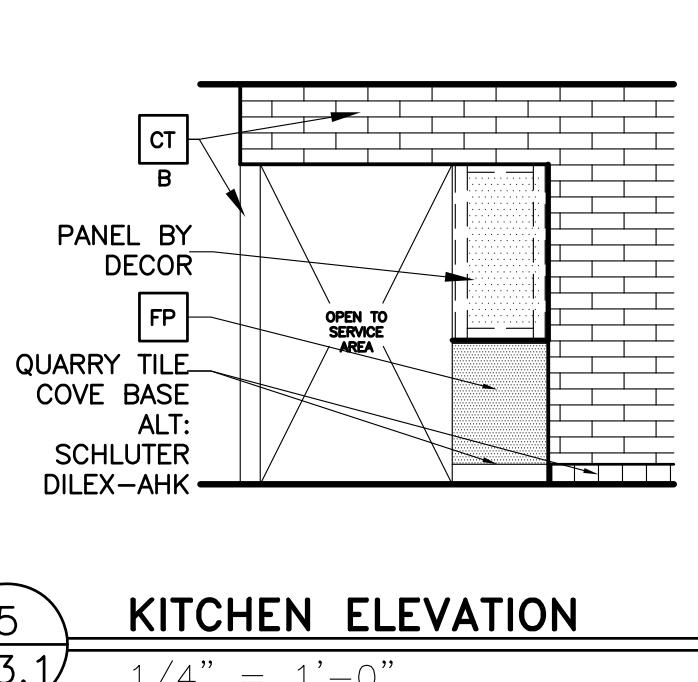
PLAN DETAIL @ DIGITAL MERCHANDISER



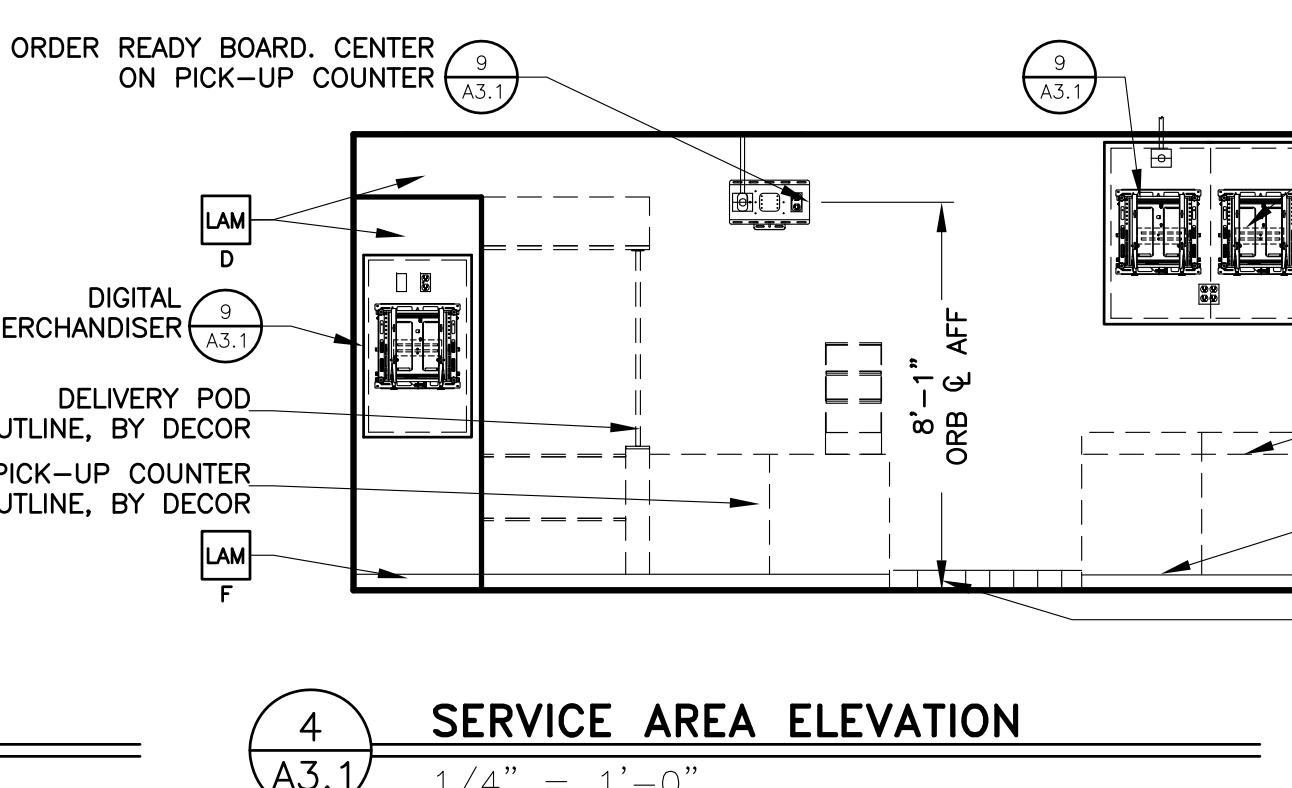
PLAN DETAIL @ MENU BOARDS



QUARRY TILE ← → DINING ROOM TILE
6 SECTION @ SERVICE POD
3 1 1" 1' 0"

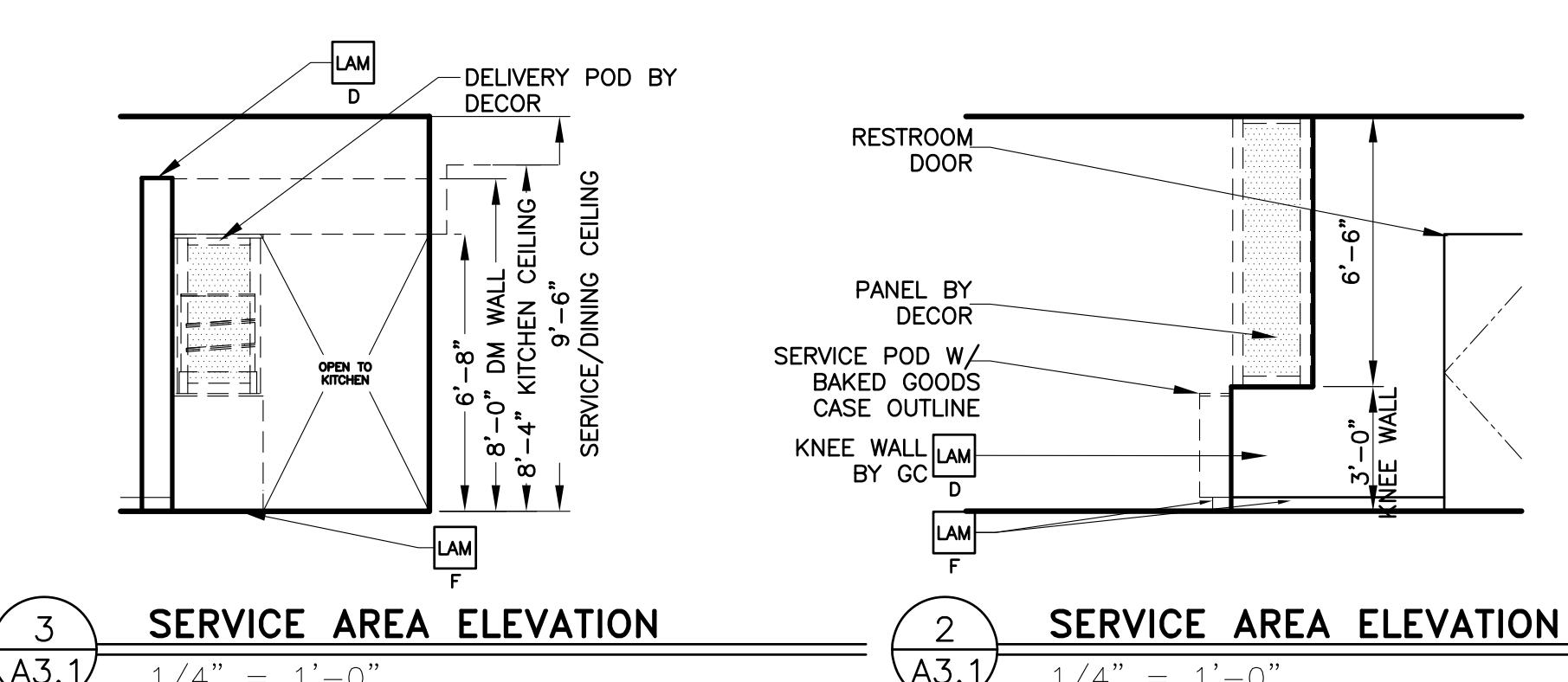


3.1 $1/4'' = 1' - 0''$



SERVICE AREA ELEVATION

4
A3.1 $1\frac{1}{4}'' = 1'-0''$



3 SERVICE AREA ELEVATION

KEY NOTES

CG CORNER GUARD: 3/4" ANGLE BY DECOR

X—
COLOR:
A = BLACK

CORIAN:
 COLOR:
A = CORIAN CAMEO WHITE BY GC
B = CORIAN DEEP TITANIUM BY GC

CT WALL TILE: CROSSVILLE - COLOR BY NUMBERS
B COLOR: INTUITIVE GRAY. SIZE: 4"x12", PATTERN: RUNNING BOND
GROUT: MAPEI O2 PEWTER - JOINT TO BE $\frac{1}{16}$ " MAX.
USE THIS TILE WHEN HIGH LRV IS REQUIRED

COORDINATE WITH THE McDONALD'S AREA CONSTRUCTION
MANAGER

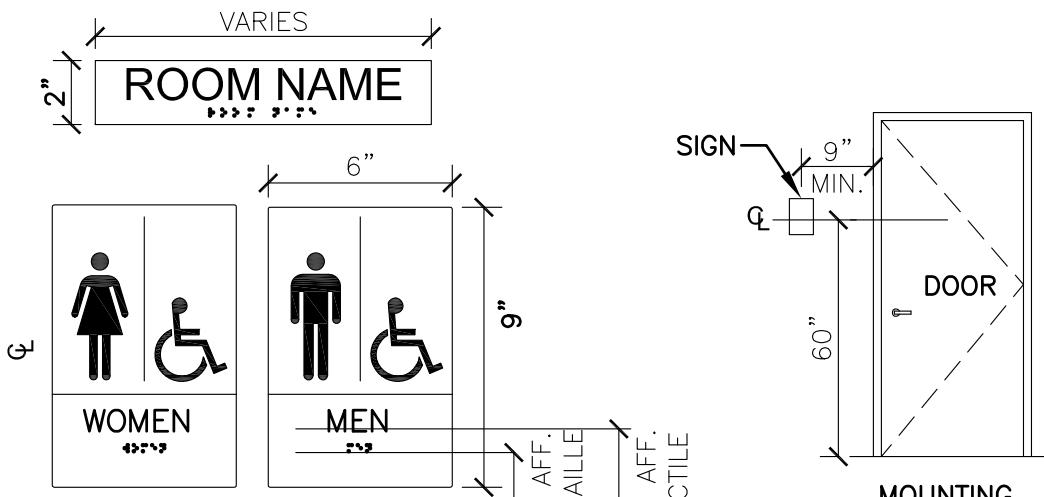
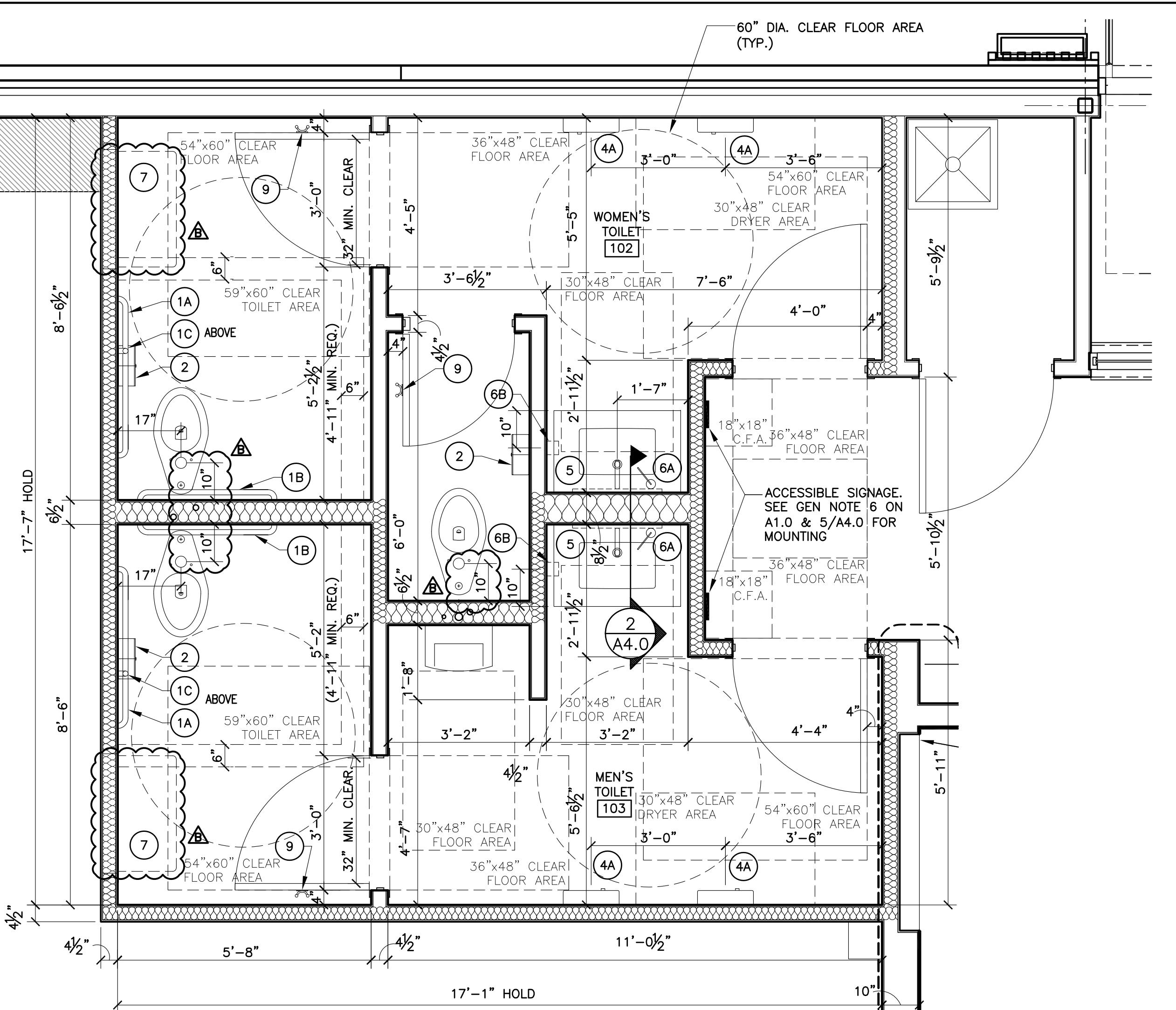
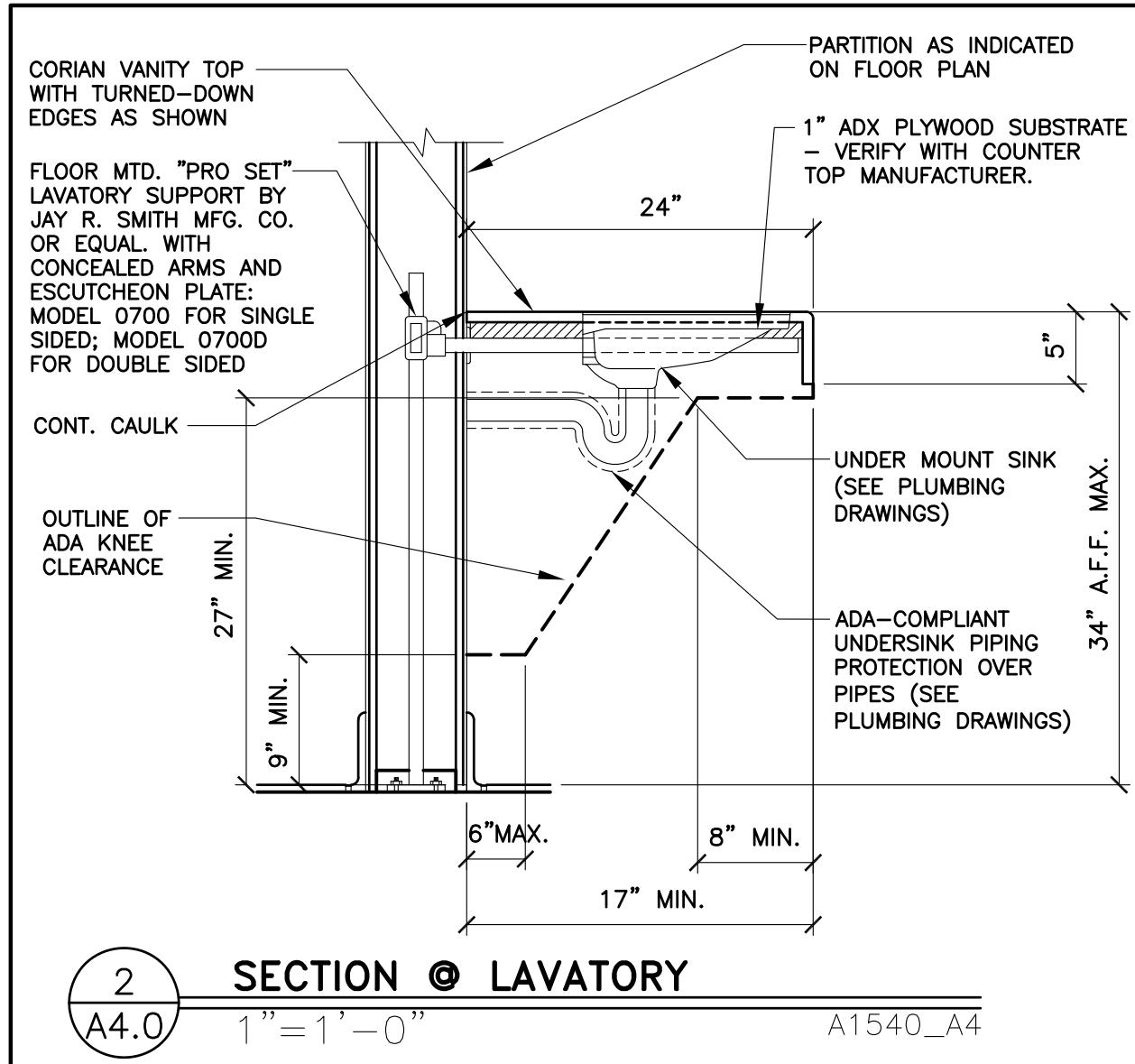
FP FIBERGLASS REINFORCED PLASTIC (FRP) – PANOLAM, GRAY
SMOOTH, CLASS C, .075. REFER TO ROOM FINISH SCHEDULE
SHEET A6.1 FOR INSTALLATION LOCATIONS. FOR ORDERING,
CONTACT KIMBERLY LAWSON Kimberly_Lawson@panolam.com
1-866-925-4377

LAM LAMINATE:

X—
COLOR:
A = IDMB / DIG. MERCH., SMOOTH BLACK PLASTIC LAMINATE BY GC
B = TRASH/ COND., WHITE PLASTIC LAMINATE BY GC
C = TRASH/ COND., LAMITECH GRAPHITE K MATTE FINISH BY GC
D = SEE DECOR DRAWINGS. MFR BY DECOR. PURCHASE AND INSTALL BY GC
E = McDELVIERY UNDERSCORE, LAMITECH GOLDEN
F = BASE BOARD, FORMICA COMPACT LAMINATE MATTE BLACK BY GC

GENERAL NOTES

- ALL WALL LAMINATE PANELING MANUFACTURED BY DECOR PURCHASE AND INSTALL BY GC UNO
 - A&E TO VERIFY LOCATION AND QUANTITY OF LIGHTS AND DIFFUSERS AFTER SERVICE AREA WALL ADDITION



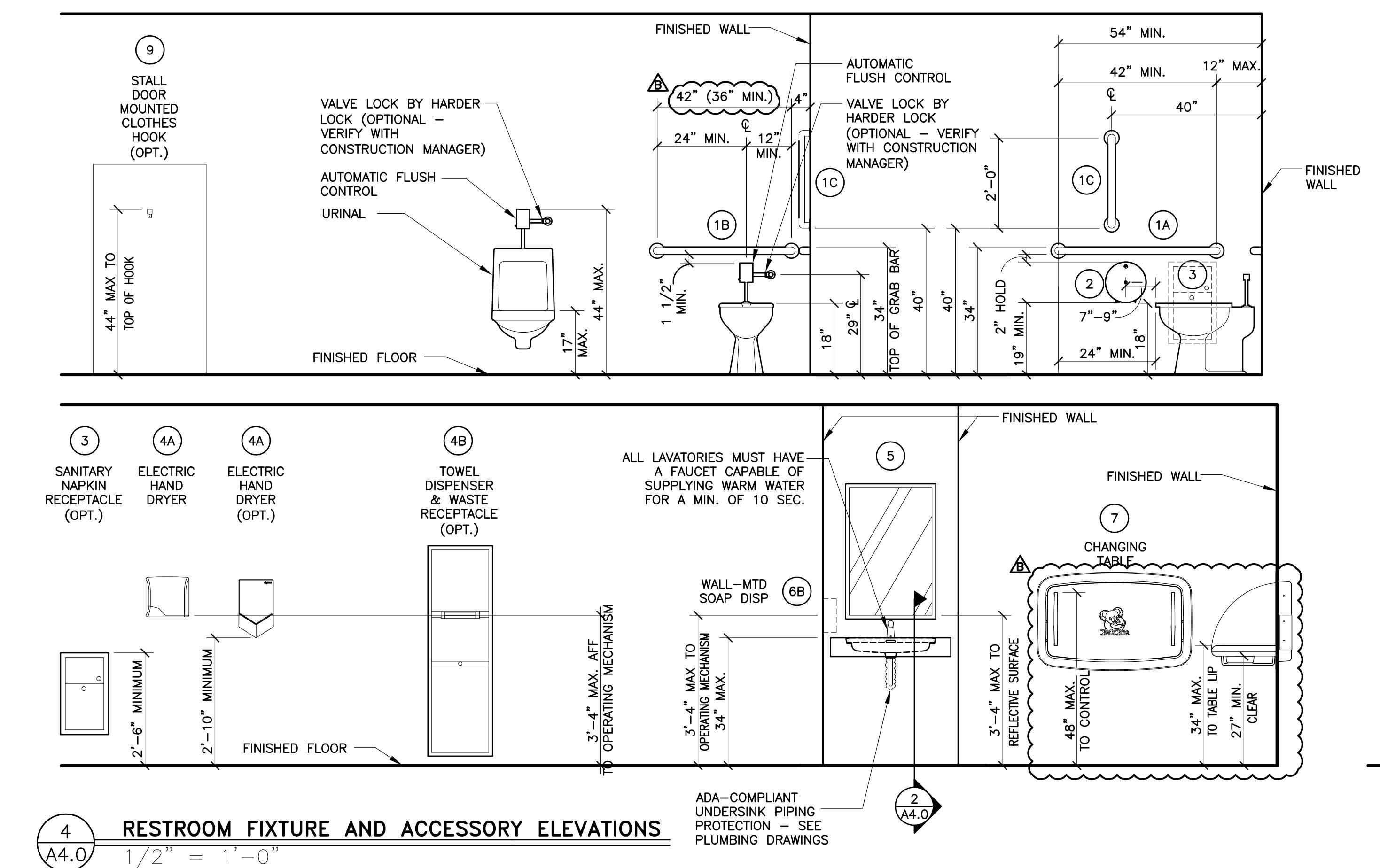
GRAPHICS SHOWN ARE FOR REFERENCE ONLY.
GC TO PROVIDE ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY:

FORREST PERMA-SIGN
9292 1ST ST. BOX 588
NEW ROCHELLE, NY 10802
www.forsigns.com
1-800-214-8765

SIGNAGE NOTES:

- EACH EXIT DOOR SHALL HAVE A TAUCLE 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.
- 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.

ACCESSIBLE SIGNAGE
N.T.S.



RESTROOM ACCESSORY SCHEDULE

SHEET NO.	TITLE	DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED	BY
015-0071.00.B	2019 STANDARD BUILDING - BB20	KO	2019-11	KO	01/23/20	12/03/20
459-F10-WOOD/WOOD	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/AUPOVIC PANEL/BRICK EXTER. FINISH					
015-0071.00.B	RESTROOM PLAN					

<p>CLOSURE DETAIL @ COOLER A4.1 1 1/2"=1'-0"</p>	<p>BATTEN TO BRICK TRANSITION A4.1 1 1/2"=1'-0"</p>	<p>DOOR JAMB @ F/C DOOR A4.1 1 1/2"=1'-0"</p>	<p>EXT.DORR JAMB DETAIL A4.1 1 1/2"=1'-0"</p>	<p>CREW WINDOW JAMB DETAIL A4.1 1 1/2"=1'-0"</p>
<p>ORDER WINDOW JAMB DETAIL A4.1 1 1/2"=1'-0"</p>	<p>EXPANSION JOINT DETAILS A4.1 1 1/2"=1'-0"</p>	<p>DETAIL @ COLUMN A4.1 1 1/2"=1'-0"</p>	<p>NOT USED A4.1 -</p>	<p>BATTEN TO FIBER CEMENT PANEL TRANSITION A4.1 1 1/2"=1'-0" 4597 ONLY</p>
<p>CORNER DETAIL @ ENTRY A4.1 1 1/2"=1'-0" 4597 ONLY</p>	<p>DETAIL @ COLUMN A4.1 1 1/2"=1'-0" 4597 ONLY</p>	<p>NOT USED A4.1 -</p>	<p>NOT USED A4.1 -</p>	<p>NOT USED A4.1 -</p>
<p>ALUMINUM BATTEN DETAIL A4.1 1/4"=1'-0"</p>	<p>SECTION A: PLAN DETAIL AT BATTENS SCALE: 3'=1'-0" ALL SUBSTRATE, HAT CHANNELS AND TRIM BY GC.</p>	<p>ELEVATION DETAIL AT BATTEN JOINTS SCALE: 1 1/2"=1'-0" PRIME AND PAINT ALL SIDES AND EDGES PRIOR TO INSTALLING</p>	<p>NOT USED A4.1 -</p>	<p>NOT USED A4.1 -</p>

I hereby certify that the above specification or drawing was prepared under my direct supervision and control by me, a registered Architect, and was registered with the State of Kansas Board of Architecture and Engineering.

reprise
Architecture, Inc.
DESIGN

12400 PORTLAND AVENUE SOUTH
BURNSVILLE, MN 55337
PHONE: (952) 252-4042
FAX: (952) 252-4943

©2020 McDonald's USA, LLC
McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be reproduced or distributed outside the contract documents without the express written consent of McDonald's USA, LLC. These drawings and specifications are intended for use on this specific project only. They are not to be used for any other purpose or in conjunction with its issue date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of an authorized McDonald's USA, LLC representative. Use of these drawings on other projects is not authorized.

RD#19175

DRAWN BY DIA STD ISSUE DATE

2019-11

REVIEWED BY KID

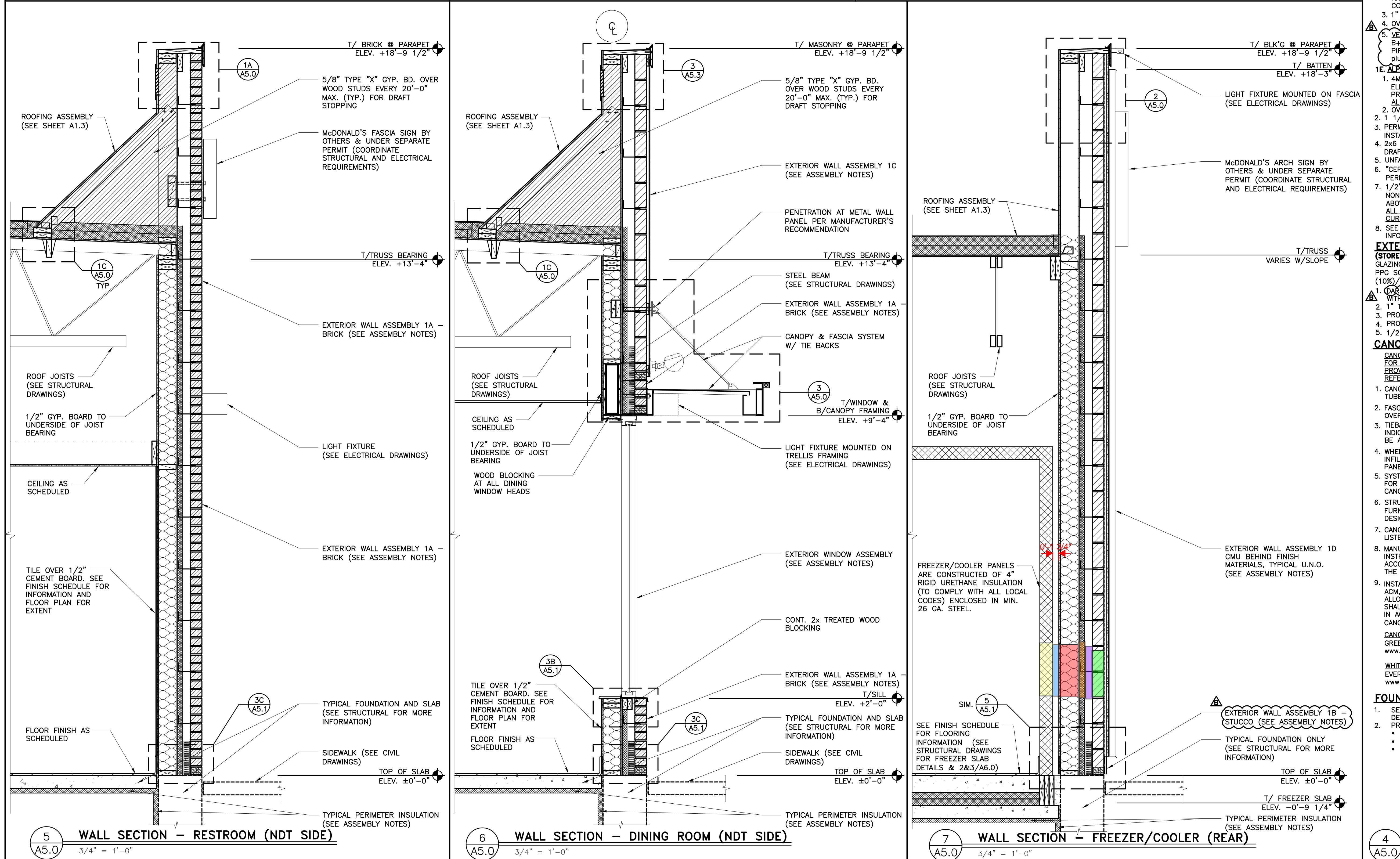
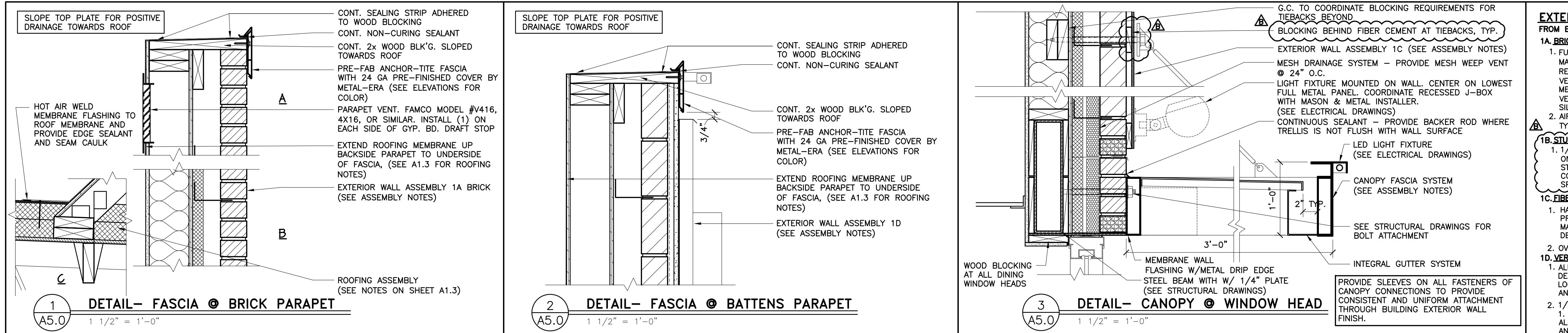
DATE ISSUED 01/23/20

SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS

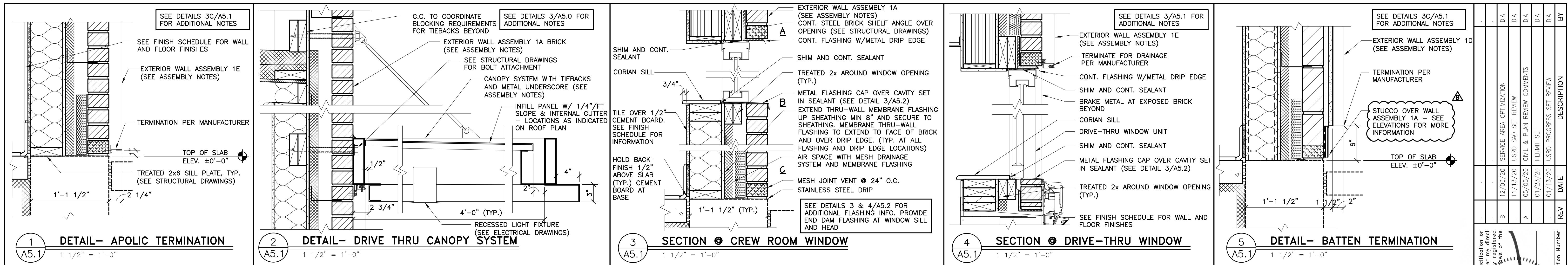
SITE ID 015-0071

SHEET NO. 015-0071.00.0

PLAN DETAILS A4.1



SHEET NO.	TITLE	DRAWN BY	REVISED BY	DATE ISSUED	DATE REVISED	BY
015-0071.00.B	2019 STANDARD BUILDING - BB20 459°F10-WOOD/WOOD	DIA STD ISSUE DATE 2019-11 KID	DIA REVIEWED BY KID	01/23/20	01/23/20	REVIEW COMMENTS CIVIL & PLAN REVIEW PERMIT SET PROGRESS SET REVIEW DESCRIPTION WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH SITE ID 015-0071 SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS



Registration Number

Date

Signature

Architect, Inc.

DESIGN

McDonald's USA, LLC

PREPARED BY:

DIA

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

12/03/20

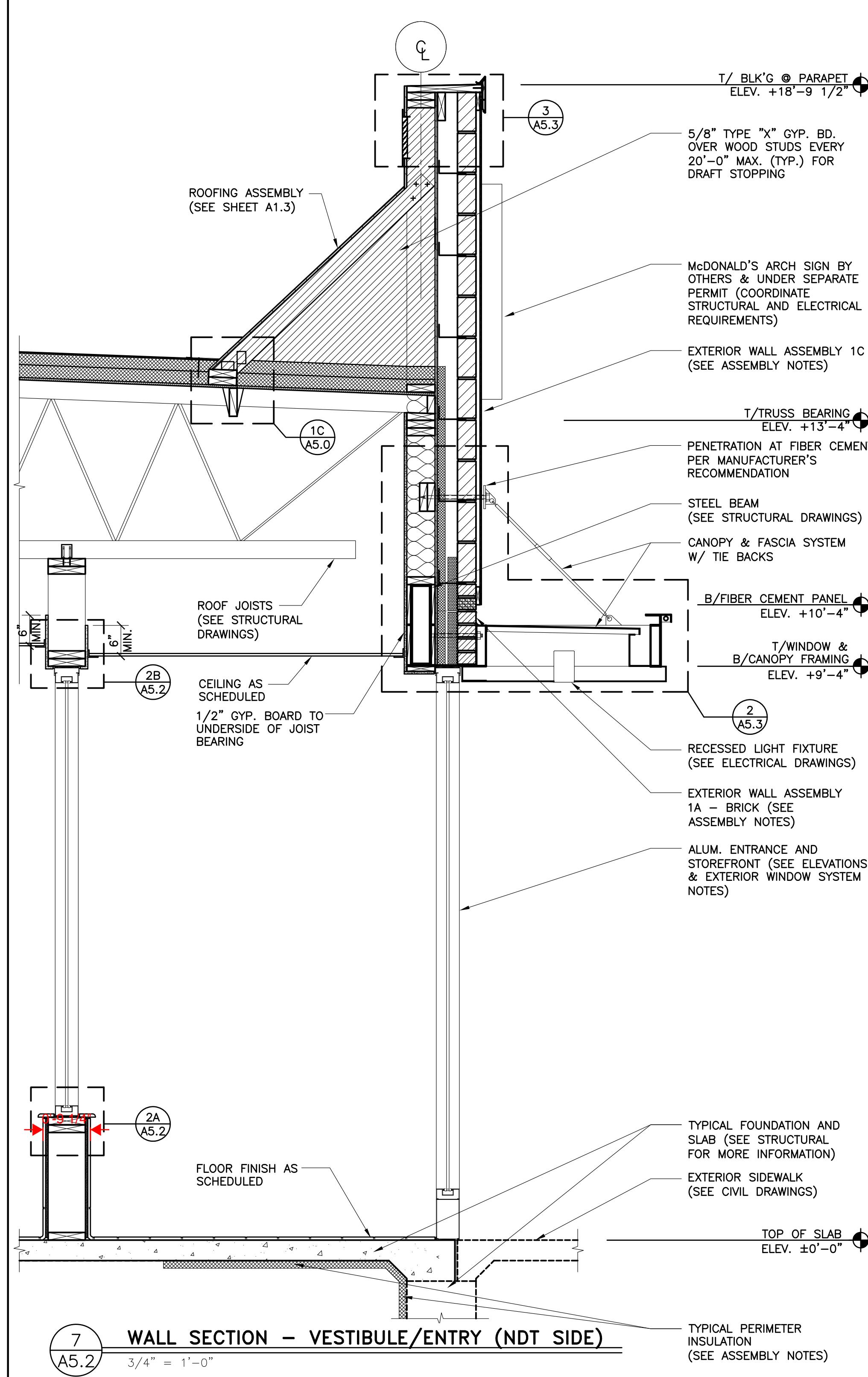
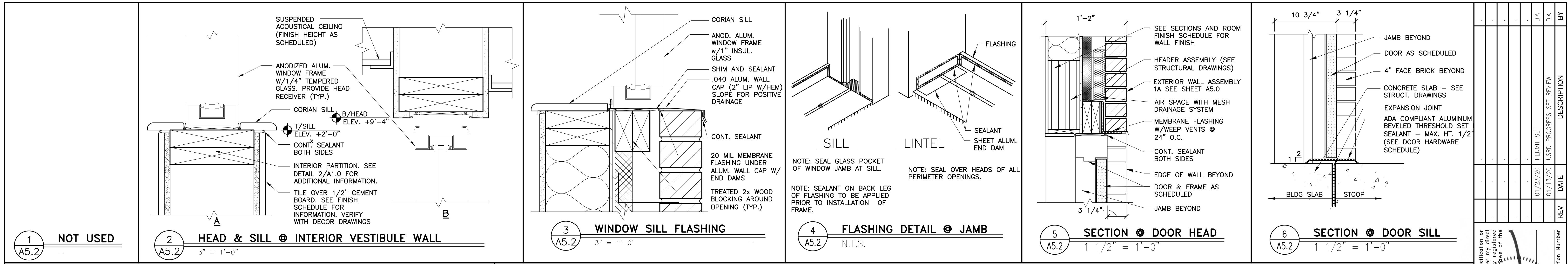
12/03/20

12/03/20

12/03/20

12/03/20

12/03/20



SHEET NO.	TITLE	DRAWN BY	DIA
015-0071.00.0	2019 STANDARD BUILDING - BB20	STD ISSUE DATE	2019-11
015-0071.00.0	459-F10-WOOD/WOOD	REVIEWED BY	KO
015-0071.00.0	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI	DATE ISSUED	01/23/20
015-0071.00.0	WOOD ROOF TRUSS FRAMING	RD#19175	
015-0071.00.0	FIBER CEMENT PANEL/BATTEN/AUPOIC PANEL/BRICK EXT. FINISH		
SITE ID	SITE ADDRESS		
015-0071	605 SOUTH 7TH STREET, KANSAS CITY, KS		

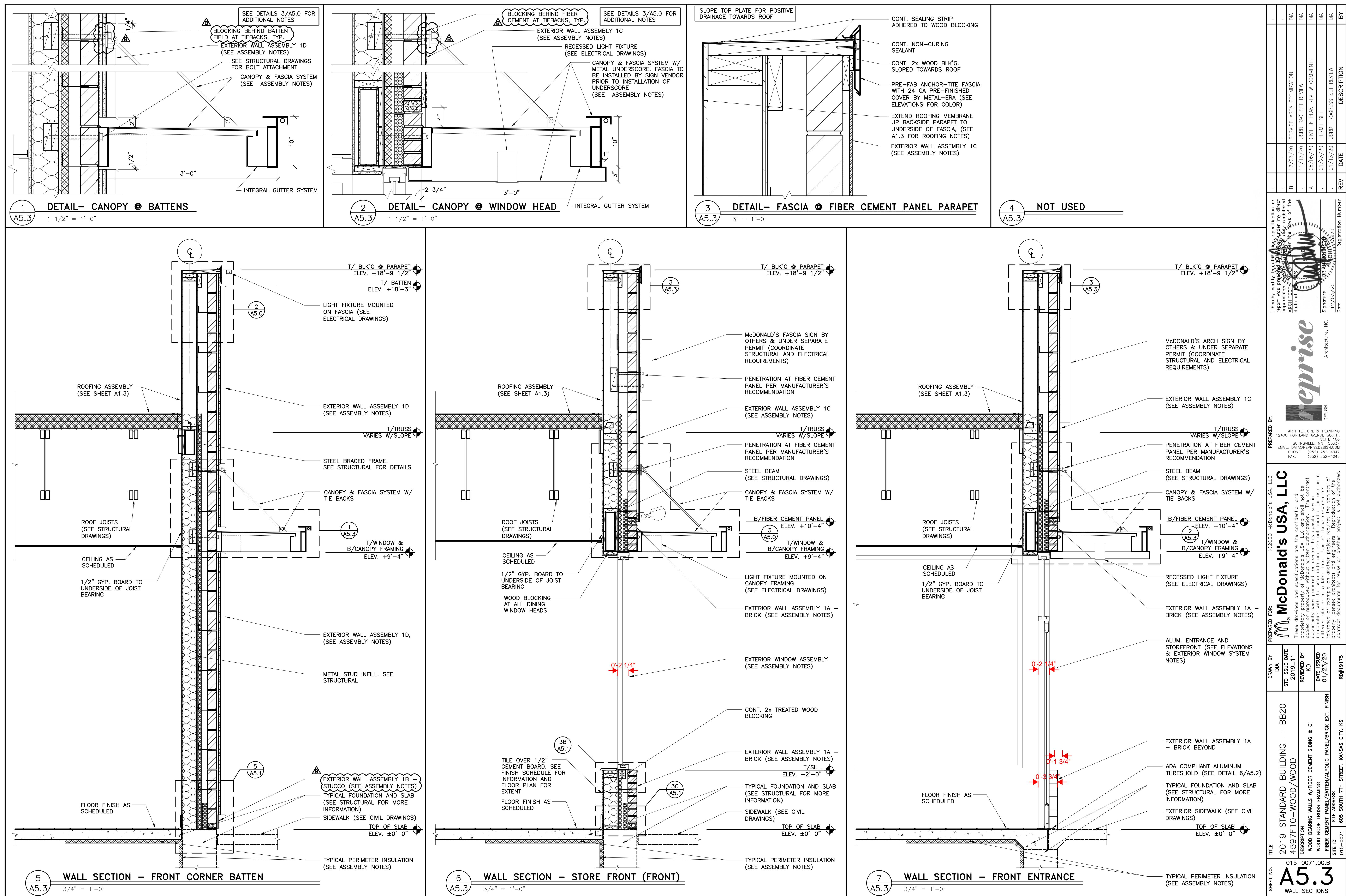
A5.2
WALL SECTIONS

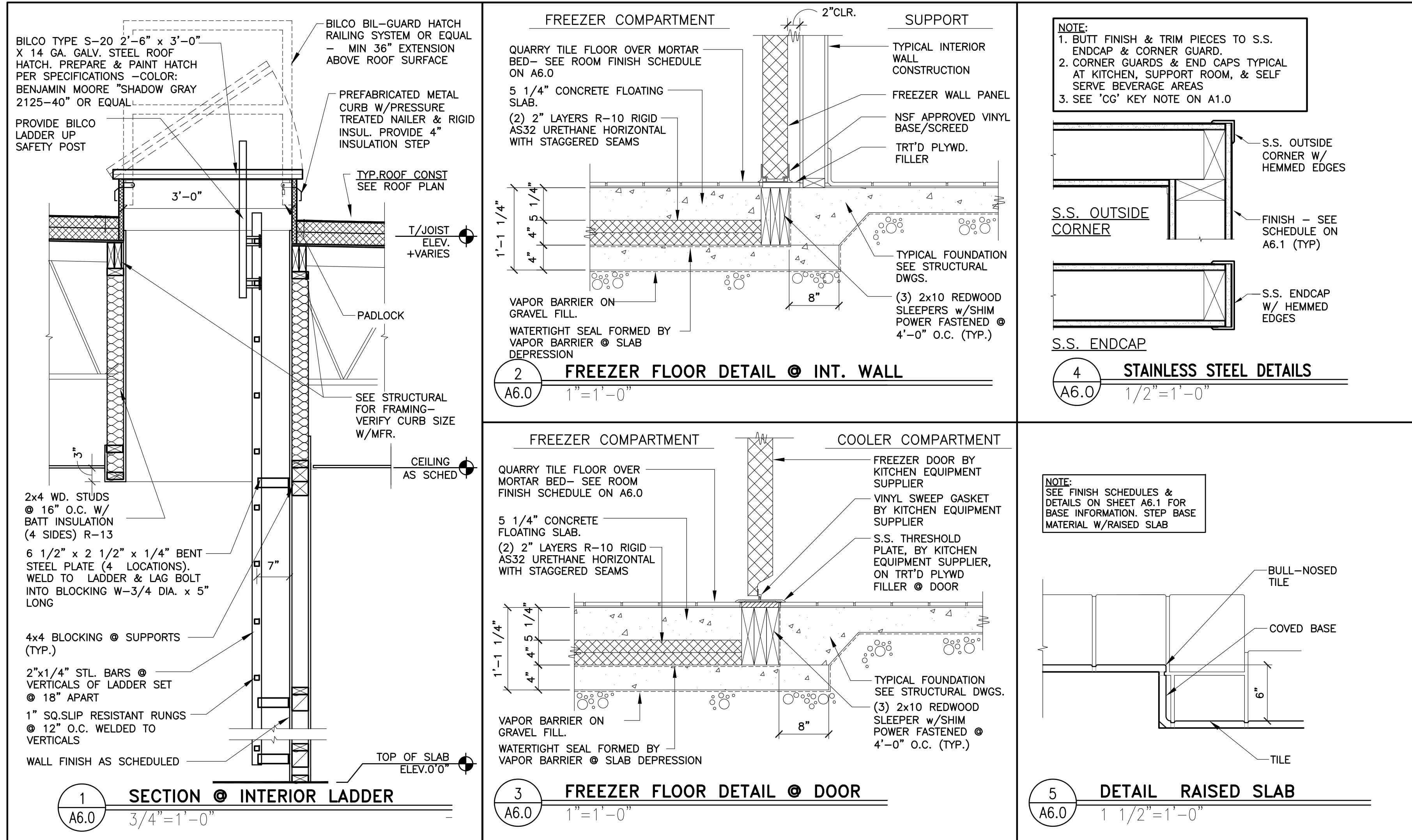
reprise
Architecture, INC.
DESIGN

I hereby certify that this drawing, specification or report was prepared under my direct supervision and direction and is my original work. I am a registered Architect in the State of Kansas and my registration number is 100-120. I have read and understand the Kansas Building Code and the Kansas Residential Code. I have also read and understood the terms of my contract with the client and the scope of work.

Signature: *[Signature]* Date: 01/23/20
Registration Number: 100-120
Date: 01/23/20

BY

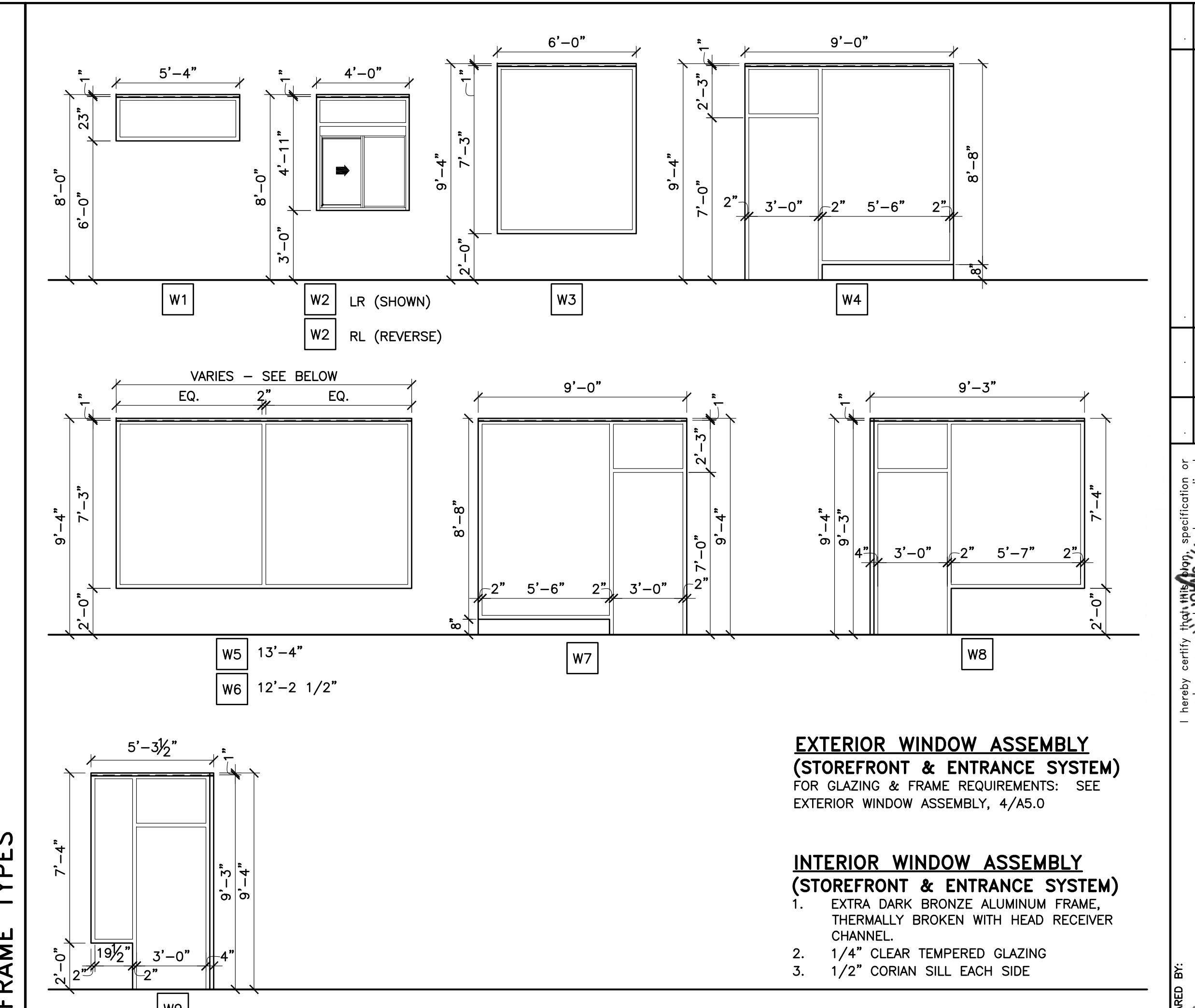




DOOR HARDWARE

GENERAL NOTES:

- ALL EXIT DOORS SHALL BE KEYLESS IN THE DIRECTION OF EGRESS.
- THE OPENING FORCE OF ALL EXT. PUSH/PULL DOORS SHALL NOT EXCEED 8 1/2 LBS.
- THE OPENING FORCE OF ALL INTERIOR PUSH/PULL DOORS SHALL NOT EXCEED 5 LBS.
- PROVIDE PANIC HARDWARE FOR ALL EXTERIOR DOORS AS NOTED ON THE DOOR SCHEDULE.
- DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- DOOR #5 - RESTROOM ENTRY
1. 3 EA HINGE BB1279 4 1/2 X 4 1/2 US26D HAGER
2. 1 EA CLOSER LDP4031 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 BY FIXING 32L 1" DIA ALT. OPTION: 1 EA PULLPLATE SANITRASP #32-1000 - UMCO 32D, 40° AFF MOUNTED CENTER OF PULL
5. 1 EA KICKPLATE 1905 4 1/2 X 34 US26D HAGER
6. 1 EA DOOR STOP 236W US32D HAGER
7. 1 EA FINGER GRD MKIB PULL SIDE BRN F.SAFE
8. 1 EA FINGER GRD MKIB PULL SIDE BRN F.SAFE
9. 1 EA STEPNUL PULL SIDE (OPTIONAL)
- DOOR #1 - #1A - ENTRY DOOR/EMERGENCY EXIT (IA NOT USED)
1. 1 EA CLOSER LCN 4041 x 18
2. 3 EA HINGES OFFSET PIVOT ANSI - A-156.4 GRADE 1; PROVIDE EXPOSED PARTS OF ALUMINUM ALLOY AS SUPPLIED BY DOOR MANUFACTURER
3. 1 EA DOOR #1A ONLY PULL HANDLE ROUGHWOOD MFG. MODEL: RM3301 SIZE: 1-1/4" DIA OTC, 5"-10" FINISH; TO MATCH STOREFRONT DOOR, OFFSET MOUNTING TYPE 1X4D - 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, READ "THIS DOOR MUST REMAIN UNLOCKED WHENEVER THE BUILDING IS OCCUPIED/DURING BUSINESS HOURS."
- DOOR #2 - 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.
- 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 99750-LD 48" SP28 V.DUPRIN
4. 1 EA TRIM 990DT US26D V.DUPRIN
5. 1 EA EXIT ALARM FAX2500 FLUSH DETEX
6. 1 EA LOCKGUARD CLP110 US32D DON-JO
7. 1 EA TREADPLATE 24 X 46 UMCO
8. 1 EA WTH/STP 160V 48 X 84 N.GUARD
9. 1 EA THRESHOLD 325HD 48" N.GUARD
10. 1 EA SWEEP 101VA 48" N.GUARD
11. 1 EA VIEW FRAME LVGLFD 9 X 9 DKB W/FLAP ON INSIDE N.GUARD
- DOOR #3A - FREEZER DELIVERY
1. 1 EA HINGE 780-112HD 83" ALUM HAGER
2. 1 EA DEADBOLT B661P 626 SCHLAGE
3. 1 EA PULL 435C US26 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
- 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 99750-LD 36" SP28 V.DUPRIN
4. 1 EA TRIM 990DT US26D V.DUPRIN
5. 1 EA EXIT ALARM FAX2500 FLUSH DETEX
6. 1 EA LOCKGUARD CLP110 US32D DON-JO
7. 1 EA TREADPLATE 24 X 34 UMCO
8. 1 EA WTH/STP 160V 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 LVGLFD 9 X 9 DKB W/FLAP ON INSIDE N.GUARD

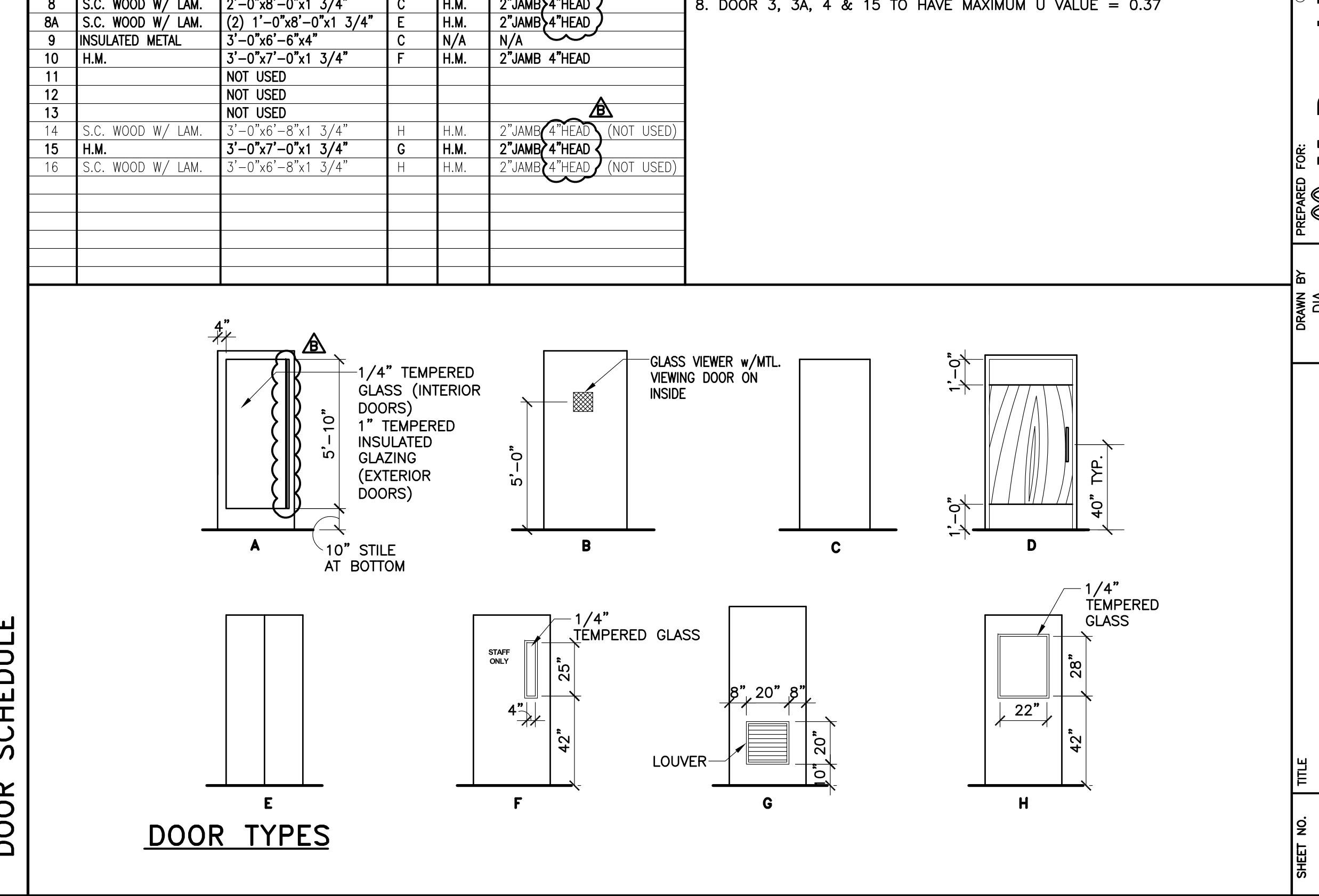


FRAME TYPES

DOOR SCHEDULE					
MARK	DOOR	MATERIAL	SIZE	TYPE	FRAME
1	DOOR #5 - RESTROOM ENTRY	1. ALUM.	3'-0" x 7'-0" x 1 3/4"	A	ALUM. (NOTE 5)
1A		2. ALUM. NOT USED			
2	DOOR #10 CREW	3. ALUM. 3'-0" x 7'-0" x 1 3/4"	B	H.M.	2"JAMB 4"HEAD
3		4. H.M. 4'-0" x 7'-0" x 1 3/4"	C	H.M.	2"JAMB 4"HEAD
4		5. H.M. 4'-0" x 7'-0" x 1 3/4"	B	H.M.	2"JAMB 4"HEAD
5		6. S.C. WOOD W/ LAM. 3'-0" x 6"-8" x 1 3/4"	C	H.M.	2"JAMB 4"HEAD
6		7. S.C. WOOD W/ LAM. 3'-0" x 4"-8" x 1 3/4"	D	H.M.	2"JAMB 4"HEAD
7		8. S.C. WOOD W/ LAM. 2'-6" x 6"-8" x 1 3/4"	D	H.M.	2"JAMB 4"HEAD
8		9. S.C. WOOD W/ LAM. 2'-0" x 8"-1" x 3/4"	C	H.M.	2"JAMB 4"HEAD
9		10. S.C. WOOD W/ LAM. 2'-0" x 8"-1" x 3/4"	E	H.M.	2"JAMB 4"HEAD
10		11. S.C. WOOD W/ LAM. 3'-0" x 6"-8" x 1 3/4"	F	H.M.	2"JAMB 4"HEAD
11		12. NOT USED			
12		13. NOT USED			
13		14. S.C. WOOD W/ LAM. 3'-0" x 6"-8" x 1 3/4"	H	H.M.	2"JAMB 4"HEAD (NOT USED)
14		15. H.M. 3'-0" x 7'-0" x 1 3/4"	G	H.M.	2"JAMB 4"HEAD
15		16. S.C. WOOD W/ LAM. 3'-0" x 6"-8" x 1 3/4"	H	H.M.	2"JAMB 4"HEAD (NOT USED)

GENERAL DOOR NOTES:

- GC TO INSTALL ACCESSIBILITY DOOR SIGNS WHERE REQ'D BY LOCAL CODES - SEE GENERAL NOTE 6, SHEET A1.0
- DETETX ALARM CONTACT SWITCHES SHALL BE RECESSED INTO THE TOP OF DOOR & HOLLOW METAL FRAME ABOVE.
- DOORS, DOOR FRAMES, & HARDWARE FOR DOORS 3, 3A, 4, 5, 6, 7, 8, 8A, 10, 14, 15, 16 SUPPLIED BY: UNIVERSAL MANUFACTURING 1-800-821-1414.
- DOOR 9 SUPPLIED BY FREEZER/COOLER MANUFACTURER
- SEE ELEVATIONS AND WALL SECTIONS
- ALL INTERIOR SOLID CORE WOOD DOORS TO HAVE A LAMINATED FINISH, AS INDICATED PER DECOR DWGS
- DOOR 8 & 8A - LAMINATED FINISH - "WILSONART DOVE GREY" D92-60
- DOOR 3, 3A, 4 & 15 TO HAVE MAXIMUM U VALUE = 0.37



DOOR TYPES

TITLE	2019 STANDARD BUILDING - BB20	DIA	STD ISSUE DATE	REVIEWED BY	DATE ISSUED	REVISION	DESCRIPTION	PREPARED FOR:	DRAWN BY
SHEET NO.	459-F10-WOOD/WOOD	2019_11	KD	01/23/20	01/23/20	BY	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/AUPOVIC PANEL/BRICK EXT. FINISH SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS 015-0071.00.B	McDonald's USA, LLC	©2020 McDonald's USA, LLC
DOOR & HARDWARE	A6.0								
REVISION	REV	DATE	BY						

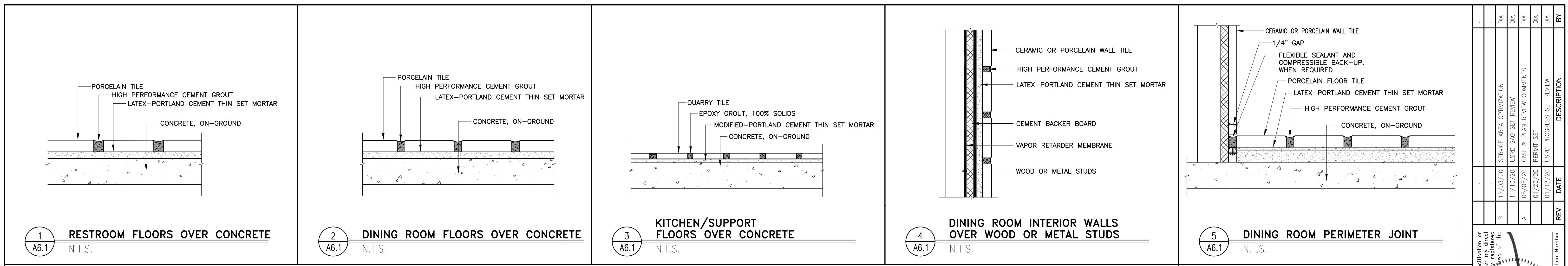
These drawings and specifications are the confidential and proprietary documents of McDonald's USA, LLC and shall not be reproduced or distributed outside of the project for which they were prepared except for reason of this specific project. It is the intent of the owner that these drawings not be copied or otherwise reproduced for use on other projects or for any other purpose. These drawings are the property of McDonald's USA, LLC and are to be returned to the owner upon completion of the project or otherwise authorized by the owner. Any unauthorized documents for release on another project is not authorized.

I hereby certify that the above specification or drawing was prepared under my direct supervision or direction by [Signature] of the firm of [Signature]. I further certify that the drawings were registered with the State of [Signature] on [Date].

Signature: [Signature]

Date: [Signature]

Registration Number: [Signature]



WALL TILE SCHEDULE					
MARK	ROOM NAME	WALL	MORTAR SETTING BED	GROUT	
100	CUSTOMER SERVICE	CERAMIC OR PORCELAIN WALL TILE (NOTE 4C)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT	GENERAL TILE NOTES: 1. REFERENCE: 2017 MCDONALD'S PROJECT MANUAL - SECTION 093000
101	DINING	CERAMIC OR PORCELAIN WALL TILE (NOTE 4B & 4C)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT	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) MAYFLOWER RED 31XA (OPTIONAL) - VERIFY W/ MCDONALD'S ACM
102	WOMEN'S TOILET	CERAMIC OR PORCELAIN WALL TILE (NOTE 4B)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT	3. DINING ROOM FLOOR TILE: MAIN & ACCENT: USE ONLY APPROVED TILE SERIES AND COLORS BY CROSSVILLE AND EUROWEST. VERIFY COLOR AND PATTERN PER INTERIOR DECOR DRAWINGS. A) MUST BE PER MCDONALD'S USA, LLC: STANDARDS FOR INTERIOR FLOOR TILE AND APPROVED TILE LIST. B) MUST MEET THE FOLLOWING: STATIC COEFFICIENT OF FRICTION (PER ASTM F1667-96) LEVEL SURFACES: MINIMUM 0.50 DRY AND WET (MCDONALD'S STANDARD) DYNAMIC COEFFICIENT OF FRICTION (PER ANSI A137.1 2012) LEVEL SURFACES: MINIMUM 0.5 DRY AND WET (MCDONALD'S STANDARD)
103	MEN'S TOILET	CERAMIC OR PORCELAIN WALL TILE (NOTE 4B)	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	HIGH PERFORMANCE CEMENT GROUT	4. 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. D) SEE INTERIOR DECOR DRAWINGS FOR ALL LOCATIONS.
104	SUPPORT	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	BEFORE FINAL INSPECTION, REMOVE PROTECTIVE COVERINGS AND PERFORM FINAL CLEANING.
105	KITCHEN	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	5. TILE CLEANER: DETERDEK, BY FILA SURFACE CARE PRODUCTS - NO SUBSTITUTIONS ALLOWED CAN BE ORDERED BY EUROWEST, CROSSVILLE, OR DIRECT FROM MANUFACTURER: FILA/DETREK POST INSTALLATION CLEANING REQUIRED ON ALL FLOOR TILE INSTALLATIONS PRIOR TO RESTAURANT TURN OVER.
106	PRESENTER-1	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	APPLY CLEANER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFERENCE: MCDONALD'S PROJECT MANUAL - SECTION 09300 TILING INTERIOR.
107	ORDER	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	6. GROUT COLOR AND MANUFACTURER AS INDICATED ON SHEET A1.0 AND INTERIOR DECOR DRAWINGS.
108	MANAGER'S AREA	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
109	CREW ROOM	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
110	COOLER	QUARRY TILE (NOTE 2)	4" ALUM. COVED BASE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
111	FREEZER	QUARRY TILE (NOTE 2)	4" ALUM. COVED BASE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
112	COMPUTER CLOSET	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
113	CREW ALCOVE	QUARRY TILE (NOTE 2)	COVED QUARRY TILE	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	
114	JANITOR'S CLOSET	PORCELAIN FLOOR TILE (NOTE 3)	COVED QUARRY TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	
115	VESTIBULE	PORCELAIN FLOOR TILE (NOTE 3)	NONE - WALL TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	
116	PRESENTER-2	PORCELAIN FLOOR TILE (NOTE 2)	COVED QUARRY TILE	LATEX-PORTLAND CEMENT THIN SET (MEDIUM BED)	
117	CO2	N/A - SEE ROOM FINISH SCHEDULE	---	MODIFIED-PORTLAND CEMENT THIN SET MORTAR (MEDIUM BED)	

ROOM FINISH SCHEDULE					
MARK	ROOM NAME	WALLS	CEILING *	REMARKS	
100	CUSTOMER SERVICE	CEMENT BOARD	TILE **	SEE DECOR DRAWINGS, TILE AS NOTED ON A1.0	GENERAL FINISH NOTES: 1. ALL FINISH SURFACES OF WALL AND CEILING MATERIALS SHALL BE CLASS B AND SHALL HAVE A FLAME SPREAD RATING OF 26 TO 75 AND A SMOKE DENSITY OF 450 MAX. (PER IBC TABLE 803.9). 2. DECORATIVE MATERIALS SHALL BE FLAME RETARDANT AND MEET THE CRITERIA OF NFPA 701. 3. DECORATIVE MATERIAL SHALL NOT CONCEAL EXITS, EXIT LIGHTS, ALARM STATIONS, HOSE CABINETS, AND EXTINGUISHER LOCATIONS. 4. WHEN BUILDING TYPE IS A NON-COMBUSTIBLE CATEGORY, ALL PLYWOOD SHALL BE FIRE RETARDANT TREATED. 5. A. FRP OVER CEMENT BD BEHIND 3-COMP SINK TO HGT OF BACK SPASH. B. TILE WAINTSCOT TO 6' A.F.F. OVER CEMENT BD. OVER EXT GRADE PLYWOOD (NOTE 4) AT MOP SINKS 6. PROVIDE CEMENT BOARD BACKER OR EQUIVALENT AT ALL TILE LOCATIONS. 7. PROVIDE VAPOR BARRIER BEHIND PLYWOOD AT WALLS AND BEHIND GYP. AT CEILING * SEE CEILING PLAN FOR HEIGHTS & LAYOUTS ** WVC ON EXTERIOR WALL ASSEMBLIES TO BE PERFORATED
101	DINING	CEM BD/GYP BD	TILE/V.W.C. **	SEE DECOR DRAWINGS FOR EXTENT	
102	WOMEN'S TOILET	CEMENT BOARD	TILE	SEE DECOR DRAWINGS FOR EXTENT	
103	MEN'S TOILET	CEMENT BOARD	TILE	SEE DECOR DRAWINGS FOR EXTENT	
104	SUPPORT	1/2" PLYWD (NOTE 4)	FRP	STAINLESS STEEL CORNERS	SEE SHEET A1.0 FOR EXTENT OF CEMENT BOARD, SS OR CT
105	KITCHEN	1/2" PLYWD (NOTE 4)	FRP	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0	
106	PRESENTER-1	CEM BD, 1/2" PLYWD (NOTE 4)	TILE	TILE AS NOTED ON A1.0	
107	ORDER	1/2" PLYWD (NOTE 4)	FRP	2'x2' VINYL-FACED LAY-IN	
108	MANAGER'S AREA	1/2" PLYWD (NOTE 4)	FRP	2'x2' VINYL-FACED LAY-IN	
109	CREW ROOM	CEM BD/GYP BD	TILE/V.W.C. **	SEE DECOR DRAWINGS FOR EXTENT	SEE A1.0 FOR PARTITION TYPE AND ROOM FINISH SCHEDULE FOR WALL FINISH
110	COOLER	N/A	PRE-FAB METAL SKIN PANEL	PRE-FAB METAL SKIN PANEL	COVED QUARRY TILE BASE 1 1/2" x 1 1/2" x 3/16" ALUMINUM FRAME AROUND PERIMETER 1 1/4" x 1 1/4" x 3/16" ALUMINUM BAR GRATE W/ 1" X 1/8" CROSS GRATE
111	FREEZER	N/A	PRE-FAB METAL SKIN PANEL	PRE-FAB METAL SKIN PANEL	QUARRY TILED INTERIOR
112	COMPUTER CLOSET	1/2" PLYWD (NOTE 4)	FRP	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.0	RECESSED MOP SINK. SEE STRUCTURAL DRAWINGS FOR SIZE AND LOCATION
113	CREW ALCOVE	1/2" PLYWD (NOTE 4)	FRP	2'x2' VINYL-FACED LAY-IN	WATERPROOF MEMBRANE TO BE APPLIED AT SUMP AREA AND 1'-0" PERIMETER AT ADJOINING FLOOR AND WALL AREAS
114	JANITOR'S CLOSET	1/2" PLYWD (NOTE 4)	FRP	PAINTED GYP. BD.	NOTE: PROVIDE POSITIVE SLOPE TO DRAIN
115	VESTIBULE	CEM BD/GYP BD	TILE/V.W.C. **	SEE DECOR DRAWINGS FOR EXTENT	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 DIMENSIONS.)
116	PRESENTER-2	CEM BD, 1/2" PLYWD (NOTE 4)	TILE	TILE AS NOTED ON A1.0	
117	CO2	1/2" PLYWD (NOTE 4)	FRP	PAINTED GYP. BD.	

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

12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, BURNSVILLE, MN 55337
PHONE: (952) 252-4042 FAX: (952) 252-4943

DESIGN BY: **reprise** Architecture, Inc.

11/15/2020 Signature: *[Signature]* Date: *[Date]*

These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or otherwise reproduced without the express written consent of McDonald's USA, LLC. These drawings and specifications are prepared for use on this specific project only. It is the responsibility of the user to determine if these drawings are suitable for use on other projects. Use of these drawings for a different project requires the written consent of McDonald's USA, LLC. Any unauthorized use of these drawings or specifications may result in criminal prosecution under the U.S. Copyright Laws.

© 2020 McDonald's USA, LLC

McDonald's USA, LLC

These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or otherwise reproduced without the express written consent of McDonald's USA, LLC. These drawings and specifications are prepared for use on this specific project only. It is the responsibility of the user to determine if these drawings are suitable for use on other projects. Use of these drawings for a different project requires the written consent of McDonald's USA, LLC. Any unauthorized use of these drawings or specifications may result in criminal prosecution under the U.S. Copyright Laws.

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

12400 ARCHITECTURE & PLANNING, PORTLAND AVENUE SOUTH, BURNSVILLE, MN 55337
PHONE: (952) 252-4042 FAX: (952) 252-4943

CONTACT: NATIONAL ACCOUNTS DIVISION
PHONE: (888) 424-6287 FAX: (908) 849-4295
NATIONALACCOUNTS@SGROUP.COM

OPTIONAL: VERIFY WITH MCDONALD'S CONSTRUCTION MANAGER

DRAWN BY: **reprise** DESIGN BY: **McDonald's USA, LLC**

STD ISSUE DATE: 2019-11 REVIEWED BY: KO DATE ISSUED: 01/23/2020 SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS 64107

RD#19175

1 1/2" = 1'-0"

SEE A1.0 FOR PARTITION TYPE AND ROOM FINISH SCHEDULE FOR WALL FINISH

COVED QUARRY TILE BASE
1 1/2" x 1 1/2" x 3/16" ALUMINUM FRAME AROUND PERIMETER
1 1/4" x 1 1/4" x 3/16" 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

NOTE: PROVIDE POSITIVE SLOPE TO DRAIN

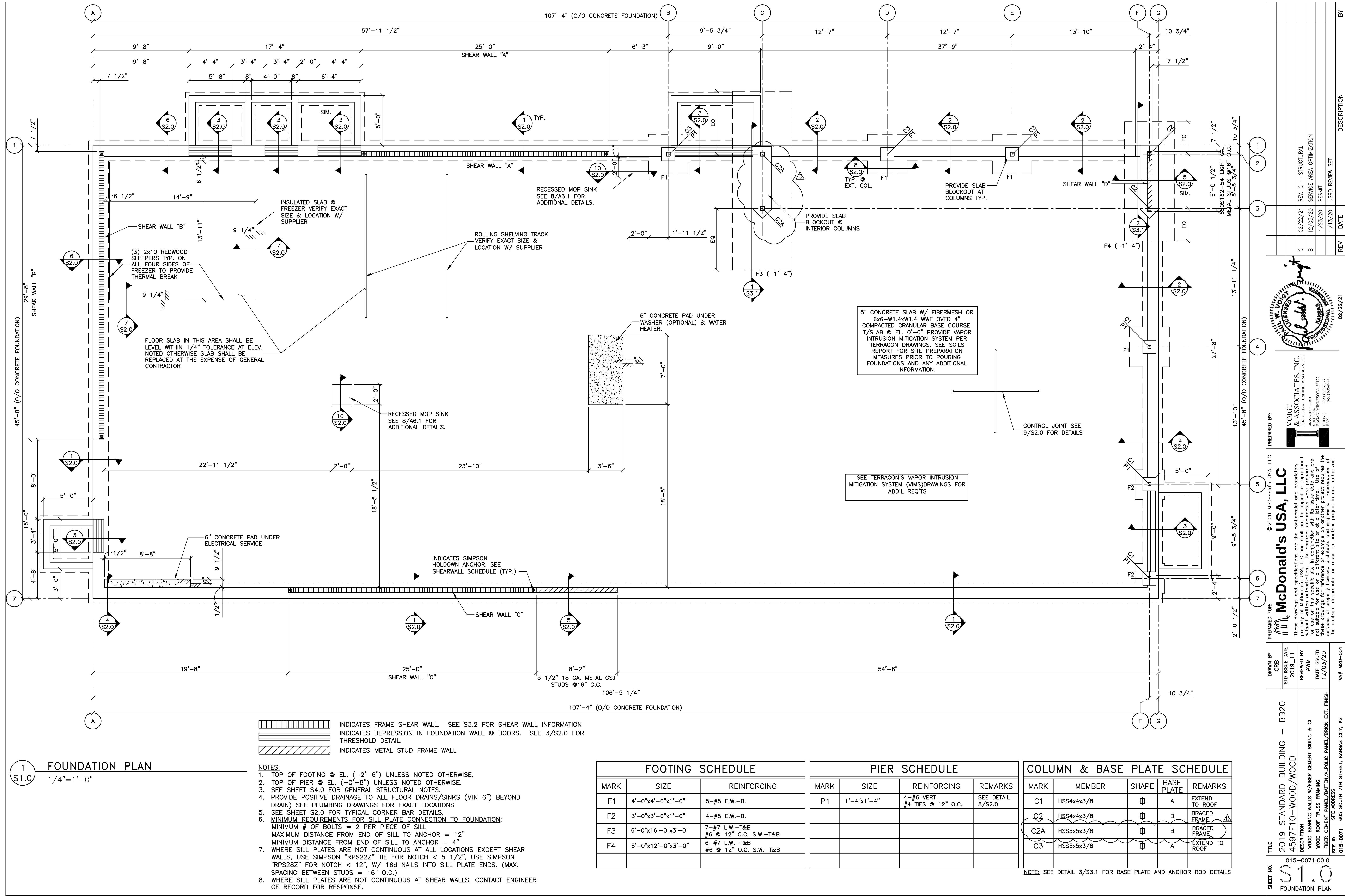
PRE-FAB MOP SINK BY ADVANCE TABCO AVAILABLE AS AN ALTERNATE OPTION. SEE P4.1 WHERE PRE-FAB MOP SINK USED. (DEPTH TO BE 8-7/8" TO ACCOMMODATE FACTORY BUILT MOP SINK DIMENSIONS.)

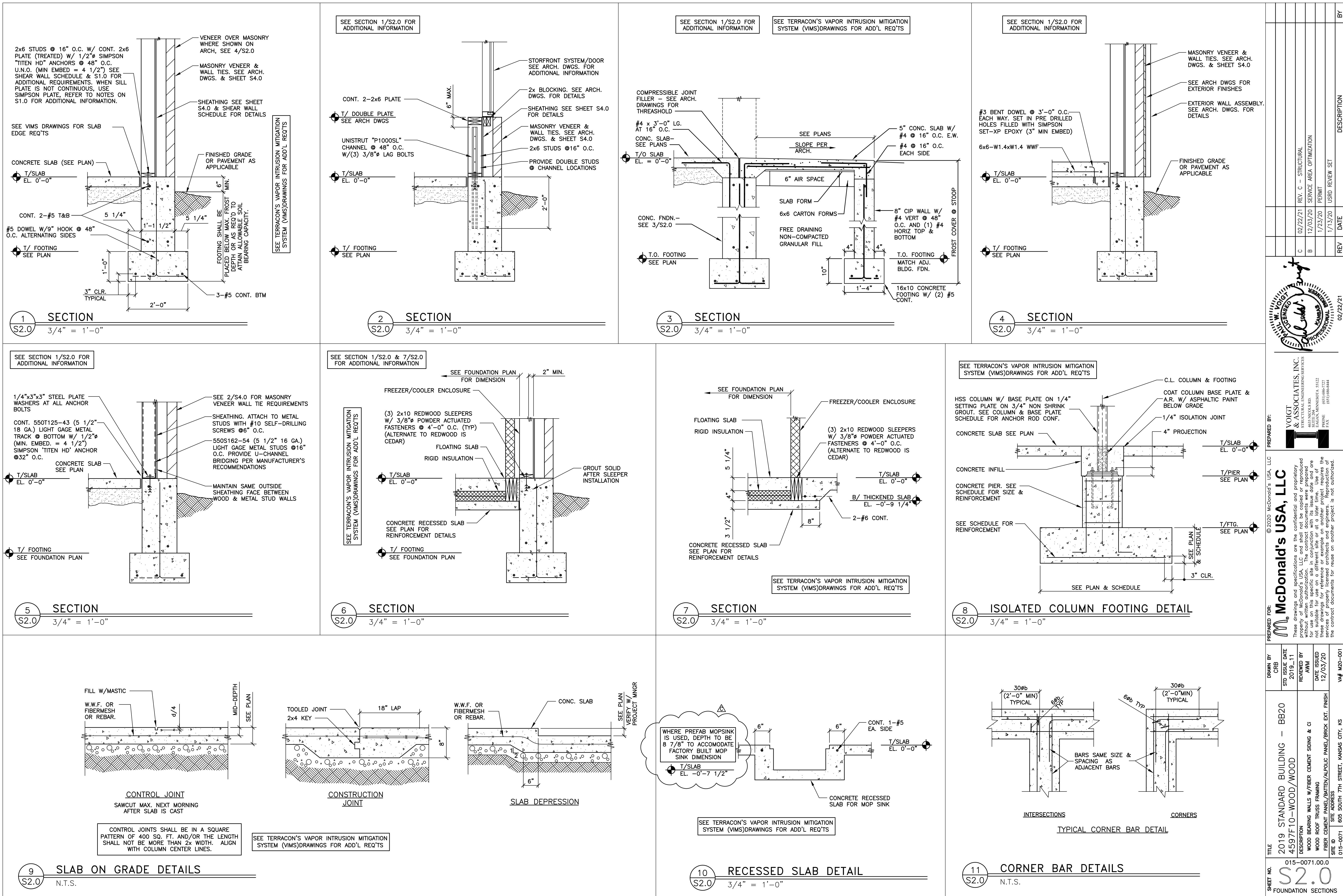
SEE PLUMBING DRAWINGS FOR DRAIN SPECIFICATION

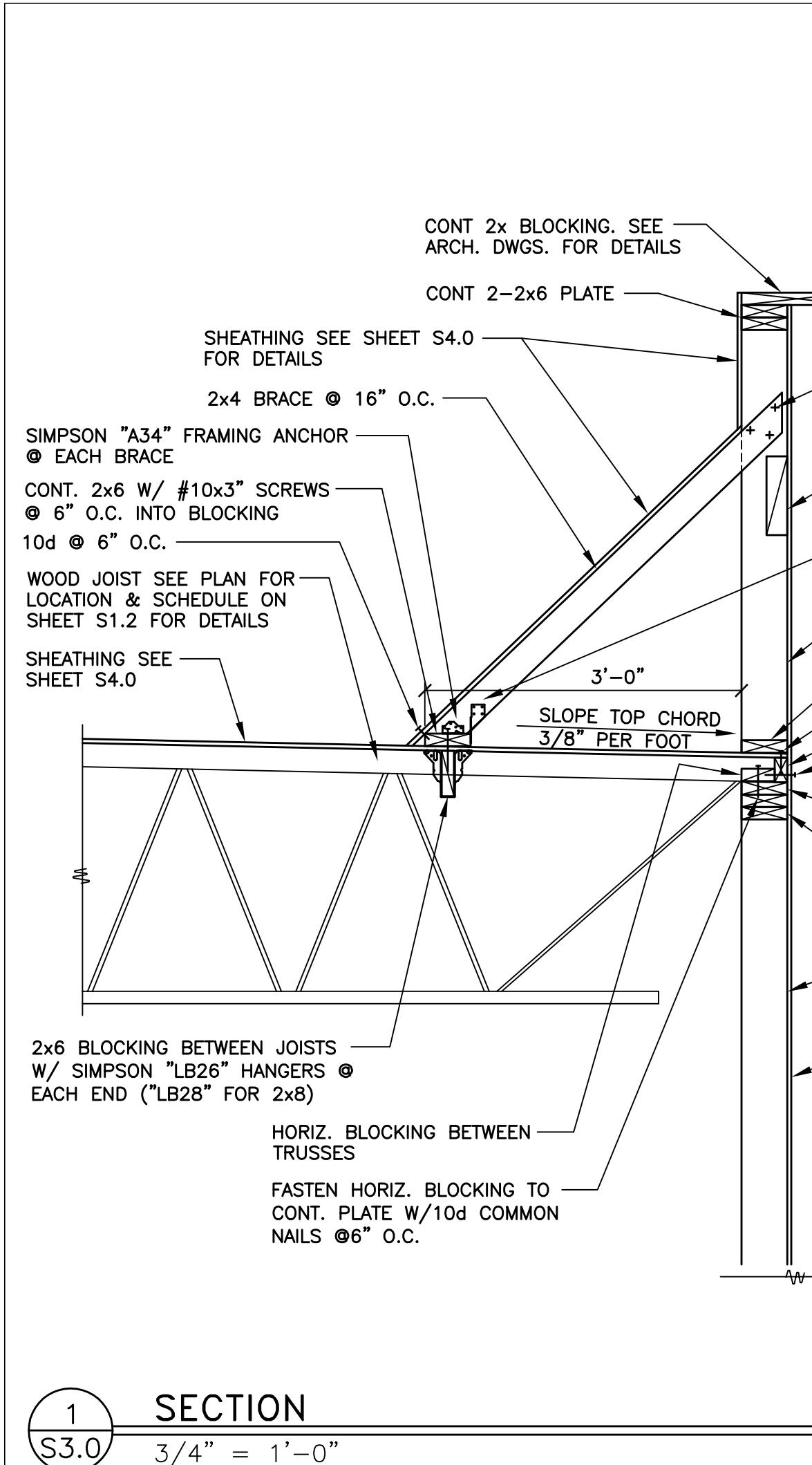
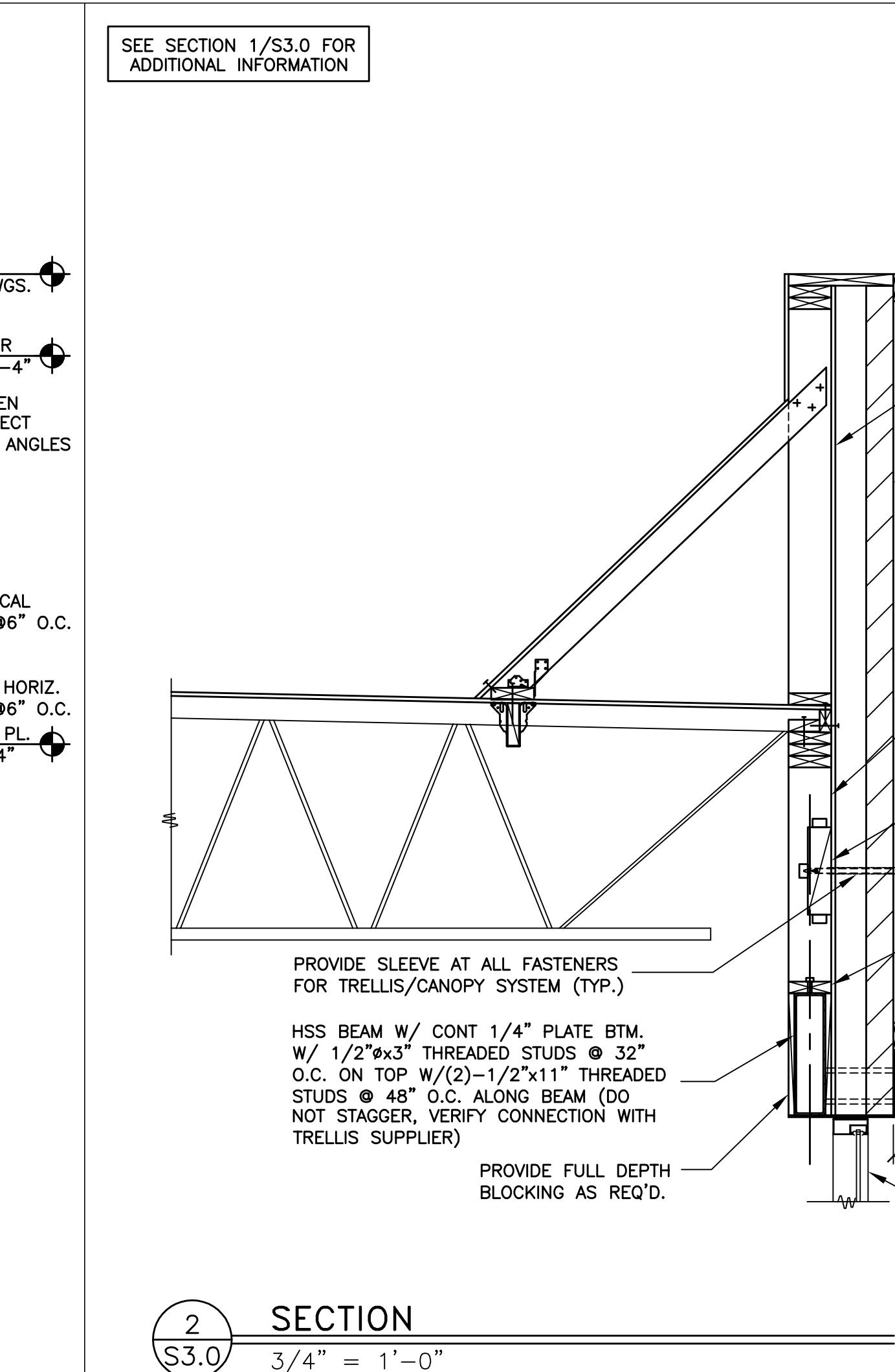
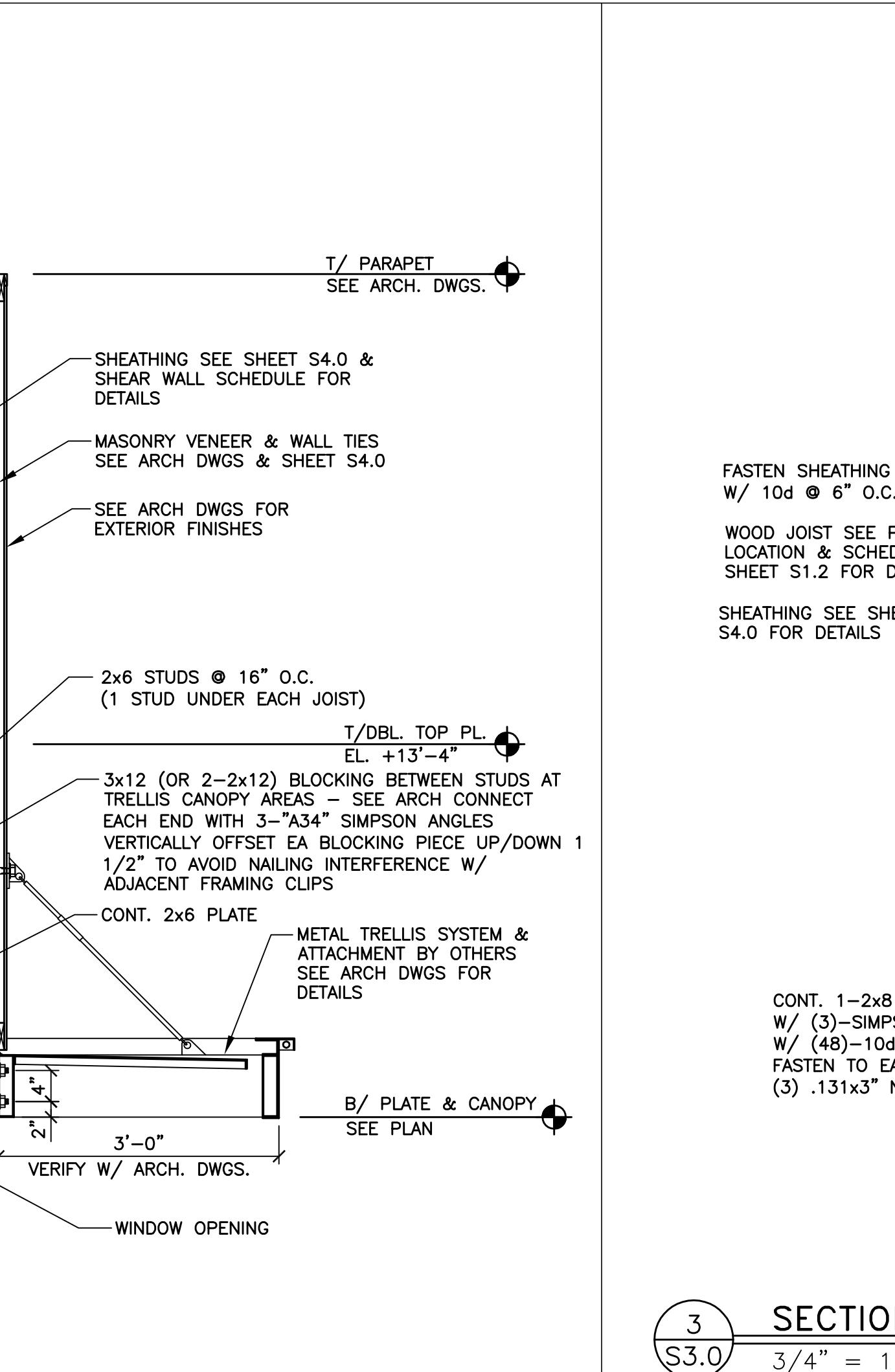
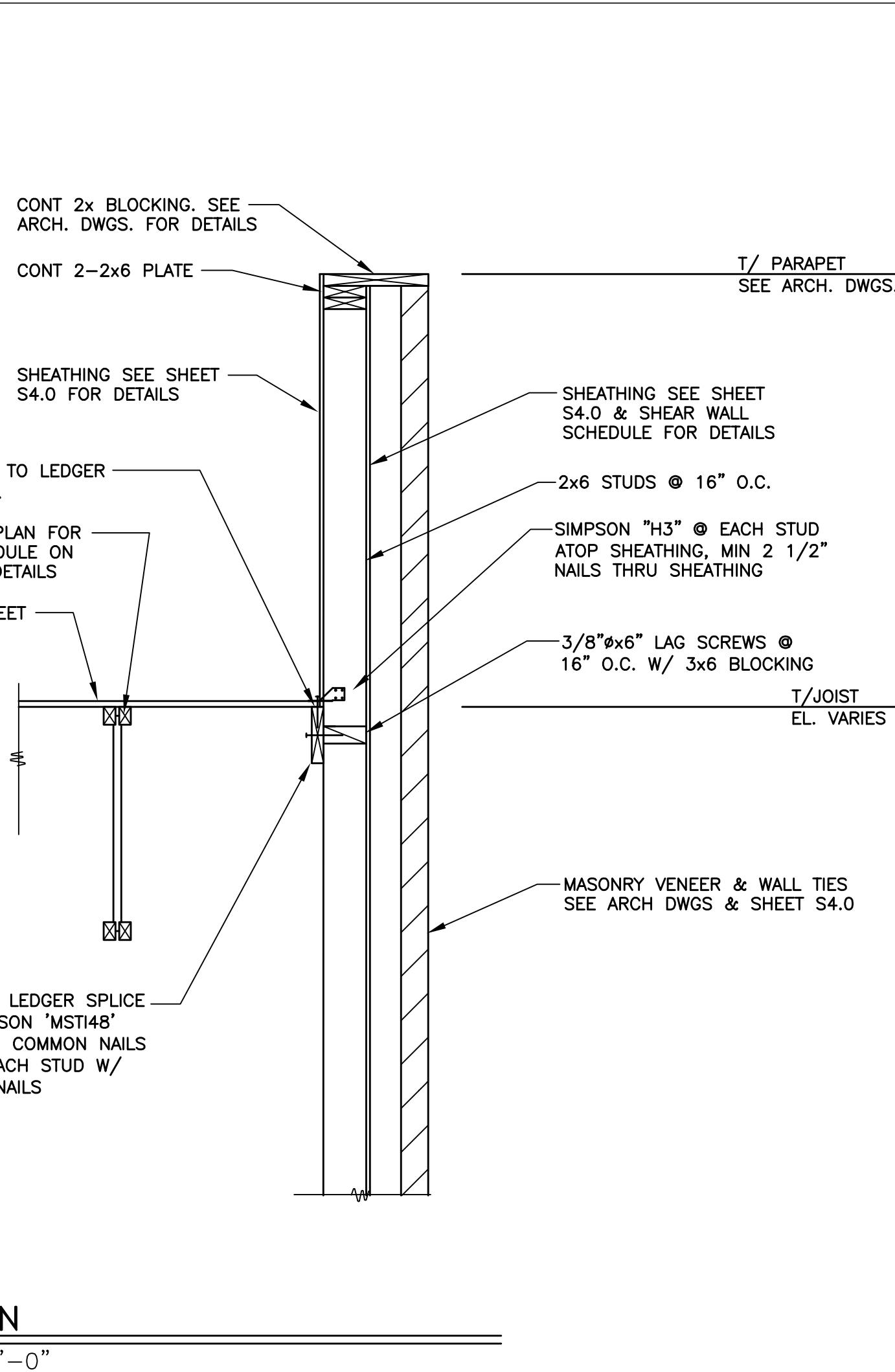
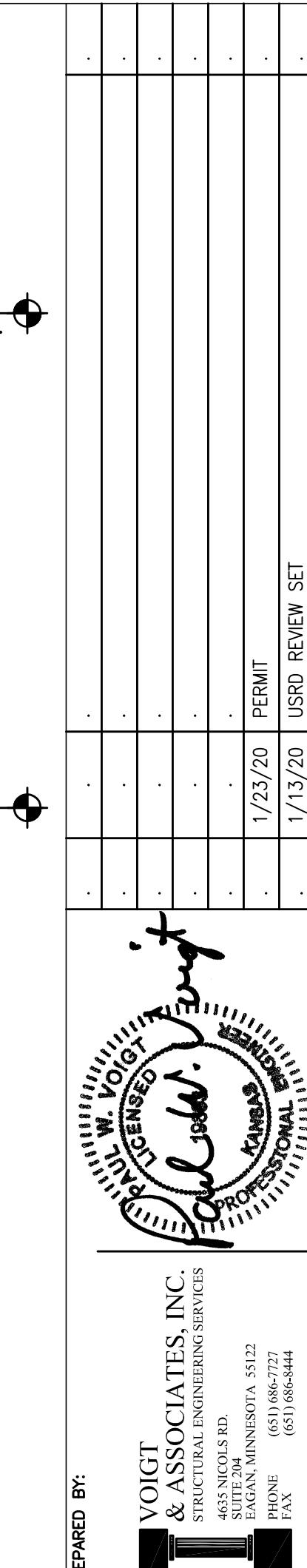
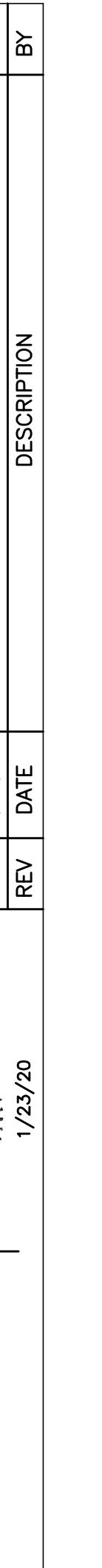
8 MOP SINK

A6.1 1 1/2" = 1'-0"

FINISH SCHEDULES

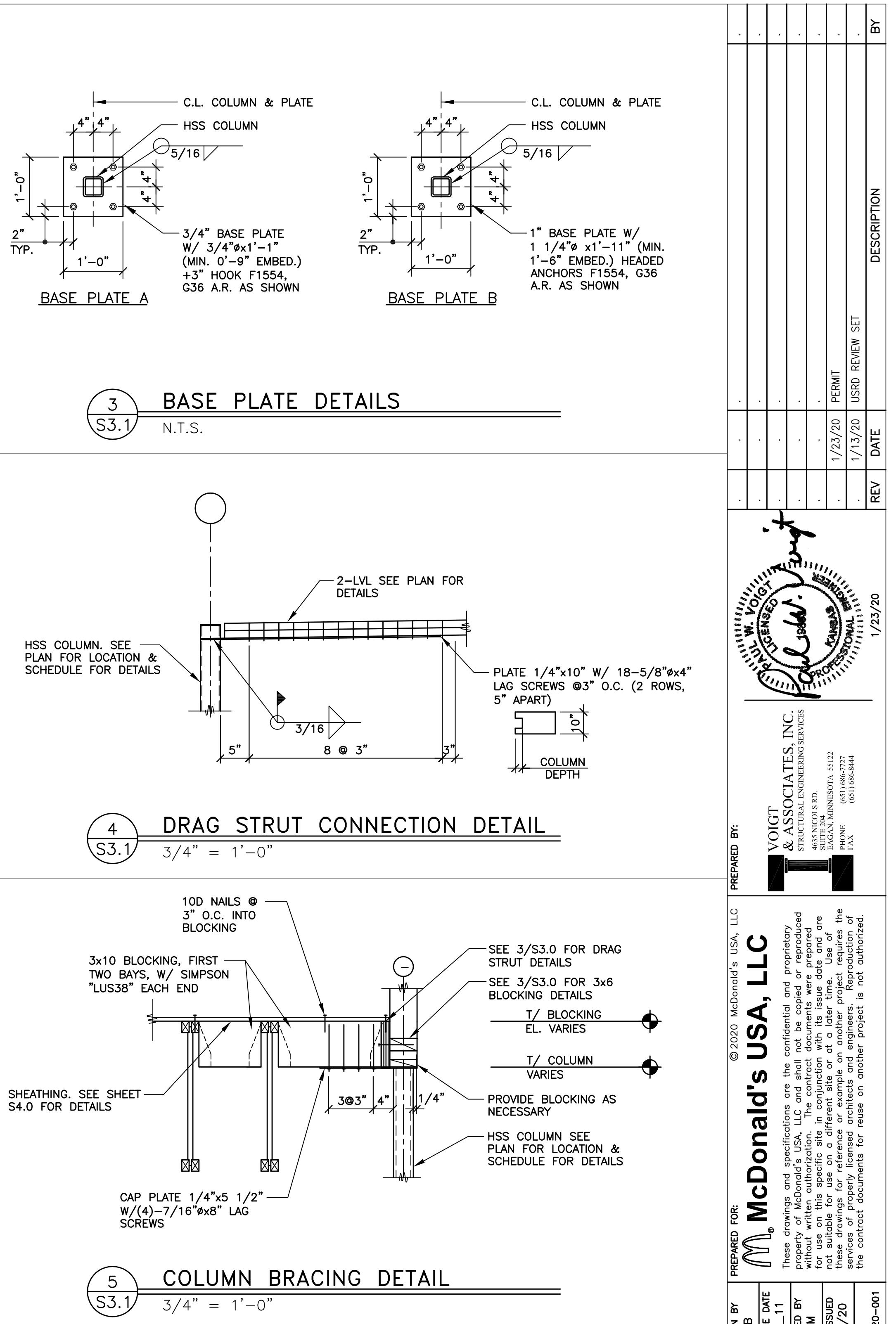
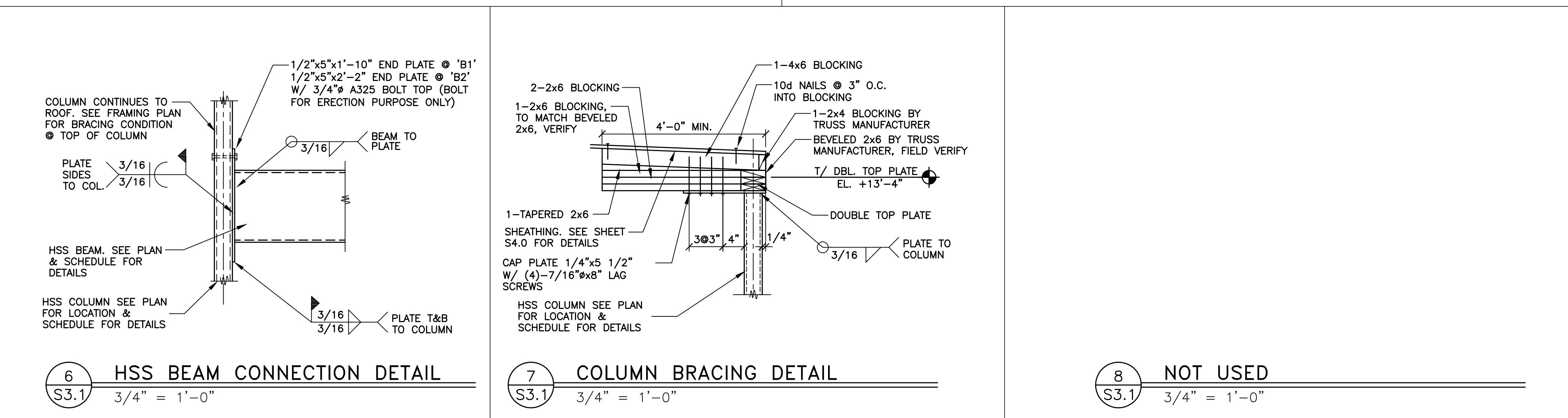
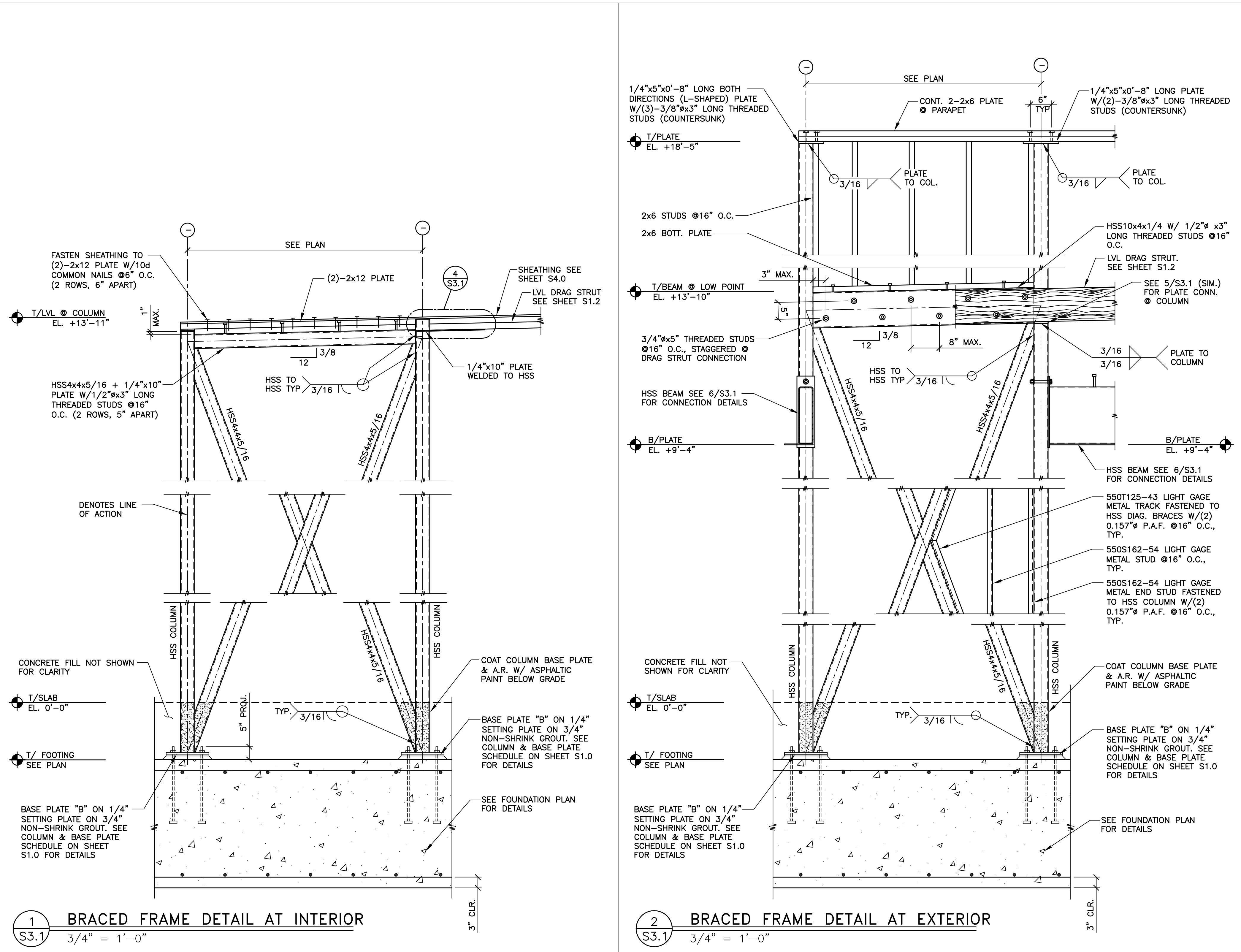




SHEET NO.	TITLE	DRAWN BY	PREPARED BY:
015-0071.00.0	2019 STANDARD BUILDING - BB20 459-7F10-WOOD/WOOD	CRB	VOIGHT & ASSOCIATES, INC. STRUCTURAL ENGINEERING SERVICES 4035 NICOLIS RD. ELLIPTICAL MINNESOTA A 58122 (651) 686-2722 (651) 686-4444
	DESCRIPTION	STD ISSUE DATE	REVISED BY
1	SECTION S3.0	3/4" = 1'-0"	1/23/20 PERMIT
2	SECTION S3.0	3/4" = 1'-0"	1/13/20 USD/R/REVIEW SET
3	SECTION S3.0	3/4" = 1'-0"	1/23/20 REV DATE
4	SECTION S3.0	3/4" = 1'-0"	1/23/20 BY
5	SECTION S3.0	3/4" = 1'-0"	1/23/20
6	SECTION S3.0	3/4" = 1'-0"	1/23/20
7	SECTION S3.0	3/4" = 1'-0"	1/23/20
1		<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>CONT 2x BRACING SEE ARCH. DWGS. FOR DETAILS</p> <p>2x4 BRACE @ 16" O.C.</p> <p>SIMPSON "A34" FRAMING ANCHOR @ EACH BRACE</p> <p>CONT. 2x6 W/ #10x3" SCREWS @ 6" O.C. INTO BLOCKING</p> <p>10d @ 6" O.C.</p> <p>WOOD JOIST SEE PLAN FOR LOCATION & SCHEDULE ON SHEET S1.2 FOR DETAILS</p> <p>SHEATHING SEE SHEET S4.0</p> <p>3' - 0"</p> <p>SLOPE TOP CHORD 3/8" PER FOOT</p> <p>3-16d @ EA. BRACE</p> <p>T/ PARAPET SEE ARCH. DWGS.</p> <p>T/ KICKER EL. +17'-4"</p> <p>3x8 (OR 2-2x8) BLOCKING BETWEEN STUDS @ SIGN CONNECTION. CONNECT EACH END WITH 2- "A34" SIMPSON ANGLES</p> <p>SIMPSON "H3" @ 16" O.C.</p> <p>CONT. 2x6 PLATE</p> <p>FASTEN SHEATHING TO CONT. VERTICAL BLOCKING W/ 10d COMMON NAILS @ 6" O.C.</p> <p>CONT. 2x4 VERTICAL BLOCKING</p> <p>FASTEN CONT. VERT. BLOCKING TO HORIZ. BLOCKING W/ 10d COMMON NAILS @ 6" O.C.</p> <p>T/DBL. TOP PL. EL. +13'-4"</p> <p>BEVELED PLATE BY REBUILT</p> <p>CONT. 2x6 PLATE</p> <p>2x6 STUDS @ 16" O.C. (1 STUD UNDER EACH JOIST)</p> <p>SHEATHING SEE SHEET S4.0 & SHEAR WALL SCHEDULE FOR DETAILS</p> <p>2x6 BLOCKING BETWEEN JOISTS W/ SIMPSON "LB26" HANGERS @ EACH END ("LB28" FOR 2x8)</p> <p>HORIZ. BLOCKING BETWEEN TRUSSES</p> <p>FASTEN HORIZ. BLOCKING TO CONT. PLATE W/ 10d COMMON NAILS @ 6" O.C.</p> <p>MASONRY VENEER & WALL TIES SEE ARCH. DWGS & SHEET S4.0</p> <p>SECTION S3.0 3/4" = 1'-0"</p>	
2		<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>2x6 STUDS @ 16" O.C. (1 STUD UNDER EACH JOIST)</p> <p>T/DBL. TOP PL. EL. +13'-4"</p> <p>3x12 (OR 2-2x12) BLOCKING BETWEEN STUDS AT TRELLIS CANOPY AREAS - SEE ARCH. CONNECT EACH END WITH 3- "A34" SIMPSON ANGLES VERTICALLY OFFSET EA BLOCKING PIECE UP/DOWN 1 1/2" TO AVOID NAILING INTERFERENCE W/ ADJACENT FRAMING CLIPS</p> <p>CONT. 2x6 PLATE</p> <p>METAL TRELLIS SYSTEM & ATTACHMENT BY OTHERS SEE ARCH. DWGS FOR DETAILS</p> <p>PROVIDE SLEEVE AT ALL FASTENERS FOR TRELLIS/CANOPY SYSTEM (TYP.)</p> <p>HSS BEAM W/ CONT 1/4" PLATE BTM, W/ 1/2"x3" THREADED STUDS @ 32" O.C. ON TOP W/(2)-1/2"x1" THREADED STUDS @ 48" O.C. ALONG BEAM (DO NOT STAGGER, VERIFY CONNECTION WITH TRELLIS SUPPLIER)</p> <p>PROVIDE FULL DEPTH BLOCKING AS REQ'D.</p> <p>VERIFY W/ ARCH. DWGS.</p> <p>WINDOW OPENING</p> <p>SECTION S3.0 3/4" = 1'-0"</p>	
3		<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>CONT. 1-2x8 LEDGER SPLICE W/ (3)-SIMPSON 'MST148' W/ (48)-10d COMMON NAILS FASTEN TO EACH STUD W/ (3) .131x3" NAILS</p> <p>MASONRY VENEER & WALL TIES SEE ARCH. DWGS & SHEET S4.0</p> <p>SECTION S3.0 3/4" = 1'-0"</p>	
4		<p>SEE SECTION 2/S3.0 & 3/S3.0 FOR ADDITIONAL INFORMATION</p> <p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>FASTEN SHEATHING TO DRAG STRUT W/ 10d COMMON NAILS @ 6" O.C.</p> <p>3x6 BLOCKING BETWEEN STUDS</p> <p>T/JOIST EL. VARIES</p> <p>3/8"x6" LAG SCREWS @ 16" O.C.</p> <p>CONT. LVL DRAG STRUT SEE PLAN FOR SIZE & SPLICE REQUIREMENTS</p> <p>3' - 0"</p> <p>VERIFY W/ ARCH. DWGS.</p> <p>WINDOW OPENING</p> <p>B/ PLATE & CANOPY SEE PLAN</p> <p>SECTION S3.0 3/4" = 1'-0"</p>	
5		<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>SEE SECTION 4/S3.0 FOR ADDITIONAL INFORMATION</p> <p>3x8 (OR 2-2x8) BLOCKING BETWEEN STUDS AT TRELLIS CANOPY AREAS - SEE ARCH. CONNECT EACH END WITH 3- "A34" SIMPSON ANGLES</p> <p>T/DBL. TOP PL. EL. +13'-4"</p> <p>METAL TRELLIS SYSTEM & ATTACHMENT BY OTHERS SEE ARCH. DWGS FOR DETAILS</p> <p>PROVIDE SLEEVE AT ALL FASTENERS FOR TRELLIS/CANOPY SYSTEM (TYP.)</p> <p>4-4</p> <p>VERIFY W/ ARCH. DWGS.</p> <p>WOOD HEADER W/ CONT. 1x6 BOTTOM SEE SCHEDULE FOR DETAILS</p> <p>MASONRY VENEER LINTEL SEE SCHEDULE FOR DETAILS</p> <p>B/ HEADER EL. +8'-0 3/4"</p> <p>SECTION S3.0 3/4" = 1'-0"</p>	
6		<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>SEE ARCH. DWGS FOR EXTERIOR FINISHES</p> <p>2x6 STUDS @ 16" O.C.</p> <p>CONT. 2x6 TOP PLATE</p> <p>HSS BEAM W/ 1/2"x3" THREADED STUDS @ 32" O.C. ON TOP</p> <p>T/JOIST EL. VARIES</p> <p>3x12 (OR 2-2x12) BLOCKING BETWEEN STUDS AT TRELLIS CANOPY AREAS - SEE ARCH. CONNECT EACH END WITH 3- "A34" SIMPSON ANGLES VERTICALLY OFFSET EA BLOCKING PIECE UP/DOWN 1 1/2" TO AVOID NAILING INTERFERENCE W/ ADJACENT FRAMING CLIPS USE #10 SCREWS IN LIEU OF TYP NAILS INTO METAL STUDS</p> <p>CONT. 1x10 BETWEEN HSS & DRAG STRUT</p> <p>CONT. 550T125-43 (5 1/2" 18 GA.) LIGHT GAGE METAL TRACK FASTENED TO HSS W/(2) 0.157" PAF @ EA. STUD</p> <p>550S162-54 (5 1/2" 16 GA.) LIGHT GAGE METAL INFILL STUDS @ 16" O.C. PROVIDE U-CHANNEL BRIDGING PER MANUFACTURER'S RECOMMENDATIONS</p> <p>T/DBL. TOP PL. EL. +13'-4"</p> <p>B/ CANOPY SEE ARCH.</p> <p>SECTION S3.0 3/4" = 1'-0"</p>	
7		<p>SEE SECTION 1/S3.0 FOR ADDITIONAL INFORMATION</p> <p>SEE 2/S4.0 FOR MASONRY VENEER WALL TIE REQUIREMENTS</p> <p>CONT 2x6 PLATE</p> <p>T/DBL. TOP PL. EL. +13'-4"</p> <p>(2)-#10 SCREWS - TRACK TO STUD</p> <p>CONT. 550T125-43 (5 1/2" 18 GA.) LIGHT GAGE METAL TRACK</p> <p>(2)-#10 SCREWS - TRACK TO TOP PLATE PER STUD</p> <p>550S162-54 (5 1/2" 16 GA.) LIGHT GAGE METAL INFILL STUDS @ 16" O.C. PROVIDE U-CHANNEL BRIDGING PER MANUFACTURER'S RECOMMENDATIONS</p> <p>MANTAIN SAME OUTSIDE SHEATHING FACE BETWEEN WOOD & METAL STUD WALLS</p> <p>SHEATHING SEE SHEET S4.0 FOR DETAILS</p> <p>SECTION S3.0 3/4" = 1'-0"</p>	

©2020 McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without written authorization. In the event that these drawings are reproduced, it is understood that the contractor documents were prepared for the project named above and are to be used only for that project. If a copy of these drawings is required for use on a different site or for reference or example on another project, the contractor documents for reuse on another project is not authorized.

DRAWN BY
CRB
STD ISSUE DATE
2019-11
REVIEWED BY
AVW
DATE ISSUED
1/23/20
PREPARED FOR:
McDonald's USA, LLC
550S162-54 (5 1/2" 16 GA.) LIGHT GAGE METAL INFILL STUDS @ 16" O.C. PROVIDE U-CHANNEL BRIDGING PER MANUFACTURER'S RECOMMENDATIONS
MAINTAIN SAME OUTSIDE SHEATHING FACE BETWEEN WOOD & METAL STUD WALLS
SHEATHING SEE SHEET S4.0 FOR DETAILS
SECTION S3.0
FRAMING SECTIONS
015-0071.00.0
S3.0
FIBER CEMENT PANEL/BATTEN/ALUMINUM/BRICK EX. FINISH
SITE ID
015-0071
605 SOUTH 7TH STREET, KANSAS CITY, KS
SITE ADDRESS



SHEET NO.	TITLE	DRAWN BY	CRB	STD ISSUE DATE	2019-11	REVIEWED BY	AVM	DATE ISSUED	1/23/20	PERMIT
015-0071.00.0	2019 STANDARD BUILDING - BB20 459-7F10-WOOD/WOOD									

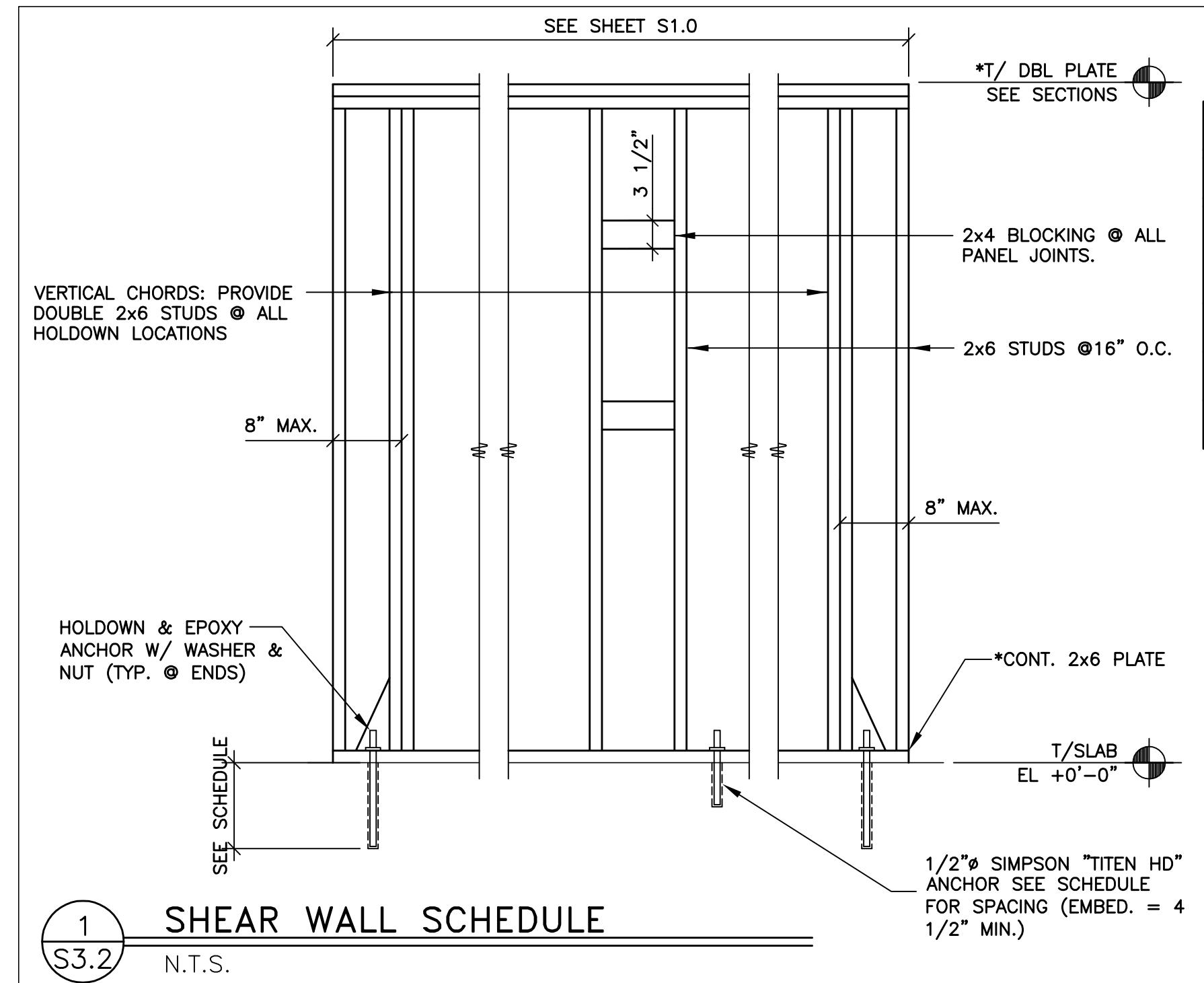
DESCRIPTION: WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI
W/O ROOF TRUSS FRAMING
FIBER CEMENT PANEL/BATTEN/ALUMINUM/BRICK EXTER. FINISH
SITE ID: 0071.00.0
SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS

McDonald's USA, LLC

VOIGT & ASSOCIATES, INC.
STRUCTURAL ENGINEERING SERVICES
4635 NICOLLS RD.
ELGIN, ILLINOIS 60137
(630) 867-2222
(630) 867-4444

©2020 McDonald's USA, LLC
These drawings are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without written authorization. In the event of unauthorized copying, McDonald's USA, LLC reserves the right to sue for damages. These drawings are for reference or example on another project. Reproduction of these drawings for property licensed architects and engineers, or for other use on another project, is not authorized.

W. Voigt
S. J. Associates, Inc.
Professional Engineers
1/23/20



1 SHEAR WALL SCHEDULE

N.T.S.

<p>1. FOR NATIONAL ACCOUNT PACKAGE & PRICING CONTACT REDBUILT @ 1-866-859-6757 2. JOIST MFGR. TO VERIFY SIZE AT HVAC ROOF TOP UNITS.</p> <table border="1"> <thead> <tr> <th>HEADER</th> <th>HANGER</th> </tr> </thead> <tbody> <tr> <td>2x6</td> <td>LUS26</td> </tr> <tr> <td>2-2x6</td> <td>LUS26-2</td> </tr> <tr> <td>2x8</td> <td>LUS28</td> </tr> <tr> <td>2-2x8</td> <td>LUS28-2</td> </tr> <tr> <td>2x10</td> <td>LUS210</td> </tr> <tr> <td>2-2x10</td> <td>LUS210-2</td> </tr> </tbody> </table> <p>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 3 SEC GUST - EXPOSURE C, UNFACTORED ASCE 7-10 LOADS WIND UPLIFT: INTERIOR = 26.4 PSF ULTIMATE PERIMETER = 31.4 PSF (ULTIMATE WITHIN 5 FT. OF OUTSIDE WALLS) DEAD LOAD RESISTANCE = 8 PSF</p>	HEADER	HANGER	2x6	LUS26	2-2x6	LUS26-2	2x8	LUS28	2-2x8	LUS28-2	2x10	LUS210	2-2x10	LUS210-2	<p>JOIST J1 PROFILE</p> <p>HEADER & HANGER SEE SCHED. WEBS TO BE DESIGNED TO ALLOW FOR 16" DUCT TO PASS THROUGH.</p> <p>LOAD TRANSFER BLOCKS CONCENTRATED LOADS</p> <p>SNOW DRIFT LOAD (PSF) WIDTH (FT)</p> <table border="1"> <thead> <tr> <th>DRAFT</th> <th>SHORt DIRECTION</th> <th>26</th> <th>6.1</th> </tr> </thead> <tbody> <tr> <th>LONG DIRECTION</th> <th>41</th> <th>9.8</th> </tr> </tbody> </table> <p>NOTE: SNOW DRIFT LOADS BASED ON NOMINAL, UNFACTORED GROUND SNOW LOADS. SEE SHEET S4.0 FOR ADDITIONAL INFORMATION.</p>	DRAFT	SHORt DIRECTION	26	6.1	LONG DIRECTION	41	9.8	<p>JOIST NOTES</p> <p>N.T.S.</p> <p>ROOF TOP UNIT CLEARANCES</p> <p>OUTLINE OF CURB</p> <p>OUTLINE OF CURB</p> <p>PROVIDE 2-2x8 VERTICAL UNDER CURB SEE JOIST SCHEDULE FOR CONNECTION INFORMATION</p> <p>1/4" = 1'-0"</p> <p>NOT USED</p> <p>N.T.S.</p> <p>NOT USED</p> <p>N.T.S.</p> <p>NOT USED</p> <p>N.T.S.</p>
HEADER	HANGER																						
2x6	LUS26																						
2-2x6	LUS26-2																						
2x8	LUS28																						
2-2x8	LUS28-2																						
2x10	LUS210																						
2-2x10	LUS210-2																						
DRAFT	SHORt DIRECTION	26	6.1																				
LONG DIRECTION	41	9.8																					
<p>ROOF TOP UNIT CLEARANCES</p> <p>1/4" = 1'-0"</p>	<p>CONDENSER</p> <p>CONDENSER</p> <p>CONDENSER</p> <p>CONDENSER</p> <p>MAC UNIT</p> <p>OUTLINE OF CURB</p>	<p>NOT USED</p> <p>N.T.S.</p> <p>NOT USED</p> <p>N.T.S.</p> <p>NOT USED</p> <p>N.T.S.</p>																					

SHEET NO.	TITLE	DRAWN BY	PREPARED BY:
015-0071.00-0	2019 STANDARD BUILDING - BB20	CRB	M. McDonald's USA, LLC

STD ISSUE DATE	REVIEWED BY	DATE ISSUED	PERMIT
2019-11	AVM	1/23/20	1/23/20 USD REVIEW SET

©2020 McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without written authorization. The contract documents were prepared without regard to local codes and standards. In case of conflict, the local codes and standards shall govern. These drawings are not suitable for use on a different site or for reference or example on another project. Reproduction of these drawings by licensed architects and engineers, or otherwise, without the express written consent of McDonald's USA, LLC, is unauthorized.

SITE ID	SITE ADDRESS	V#	M#
015-0071.00-0	605 SOUTH 7TH STREET • KANSAS CITY, KS	001	001

STRUCTURAL GENERAL NOTES:

DESIGN AND LOADING

1. THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:
 - A. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE
 - B. FLOOR:
 - LIVE LOAD: 125 PSF
 - DEAD LOAD: 20 PSF
 - 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
 - C. WIND:
 - BASIC WIND SPEED: 115 MPH (3-SECOND GUST ULTIMATE)
IMPORTANCE FACTOR: 1.00
BUILDING OCCUPANCY CATEGORY: II
WIND EXPOSURE: C
PRESSURES PER ASCE7
 - D. SEISMIC:
 - OCCUPANCY CATEGORY: II
IMPORTANCE FACTOR: 1.00
SITE CLASS: D
 $SS = 0.1116, S_1 = 0.0636$
 $SDS = 0.118, SD_1 = 0.101$
DESIGN CATEGORY: B
PLYWOOD SHEAR WALLS ($R = 6.5$)
OSCBF ($R = 3.25$)
 $C_{s1} = 0.018, C_{s2} = 0.036$
DESIGN BASE SHEAR = SEE CALCULATIONS
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
 - E. FLOOD LOAD: N/A
 - F. 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 = 2000 PSF.
- B. RECOMMENDED BY OLSSON, INC - IN THEIR REPORT #019-1175 DATED 5-22-19, ANY FILL REQUIRED BELOW SLABS ON GRADE OR FOOTINGS SHALL BE COMPAKTED 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 B
- G. STRUCTURAL ANGLES A36

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 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 INTERMEDIATE SUPPORTS, U.N.O.
3. ROOF SHEATHING SHALL BE 23/32" (3/4" NOMINAL) APA RATED 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 1705 OF IBC AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2012 INTERNATIONAL BUILDING CODE SECTIONS/LOCATIONS:
 - A. SOILS - SECTION 1705.6 PER TABLE 1705.6
 - B. CONCRETE - SECTION 1705.3 PER TABLE 1705.3
 - C. STEEL - SECTION 1705.2 (SEE AISC 360.10)

MISCELLANEOUS

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

CONCRETE BLOCK JOINT REINFORCEMENT

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

1 CONCRETE BLOCK JOINT REINFORCEMENT

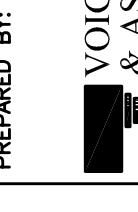
VENEEER TIE REQUIREMENTS:

1. USE THE FOLLOWING:
VENEEER TIES W/ WIRE SIZE (W2.8 OR 3/16") SPACED 16" O.C. VERTICALLY AND 32" HORIZONTALLY. ADDITIONAL TIES ALONG ALL OPENINGS GREATER THAN 16" ARE REQUIRED TO BE LOCATED WITHIN 12" OF OPENING AND SPACED 36" O.C. MAX. AROUND OPENING PERIMETER. (HOHMANN & BARNARD VBT-VEE-BYNA TIE WITH DW10-HS ANCHOR PLATE OR EQUAL).

2 VENEER TIE REQUIREMENTS

McDonald's USA, LLC

©2020 McDonald's USA, LLC

PREPARED BY: 

These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without written authorization. The contract documents were prepared by Voigt & Associates, Inc. Structural Engineering Services, Inc., located at 4635 Nicolai Rd., Suite 100, Edina, MN 55422. These drawings and specifications are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.

©2020 McDonald's USA, LLC

PREPARED FOR:

STRUCTURAL ENGINEERING SERVICES

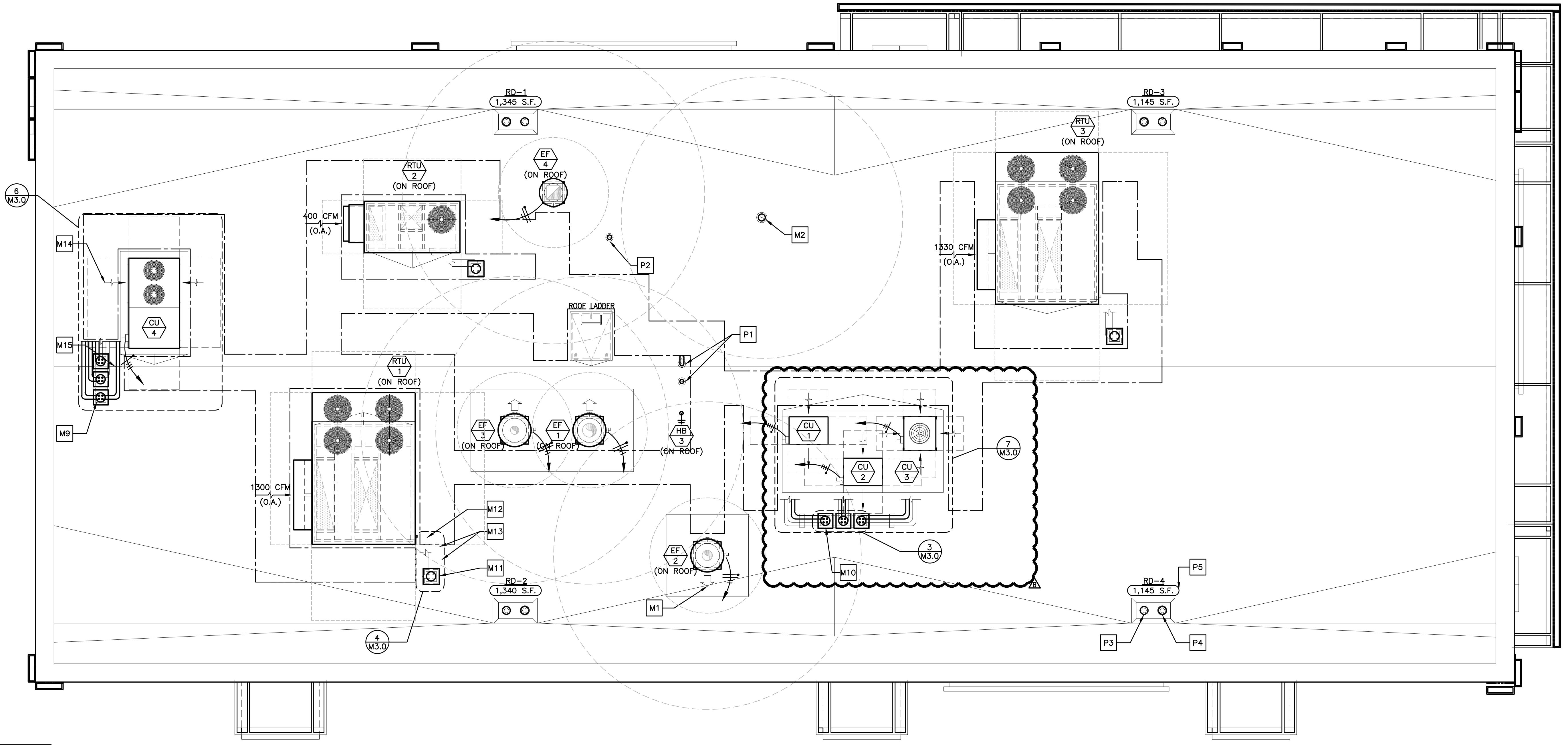
4635 NICOLAI RD.
EDINA, MN 55422
PHONE: (612) 967-2727
FAX: (612) 967-4444

015-0071.00.0

S4.0

STRUCTURAL NOTES

SHEET NO.	TITLE	DRAWN BY	CRB	STD ISSUE DATE	REVIEWED BY	DATE ISSUED	PERMIT
015-0071.00.0	2019 STANDARD BUILDING - BB20 4597-10-WOOD/WOOD			2019-11	AVM	1/23/20	1/23/20 USD/RVW SET



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

DRAWING NOTES

- ROOFTOP EQUIPMENT LOCATIONS SHOWN ARE GENERAL. ACTUAL LOCATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS.
- ROOF OPENINGS FOR ROOFTOP UNITS AND EXHAUST FANS SHALL BE COORDINATED WITH THE MANUFACTURER.
- 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.
- PRIOR TO INSTALLING THE TOP OF THE EQUIPMENT PLATFORM, INSIDE OF THE PLATFORM SHALL BE INSULATED WITH AS MUCH BATT INSULATION AS POSSIBLE.

DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN ON DRAWINGS, OR SHOWN ON DRAWINGS BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS, IF NOT OTHERWISE DIRECTED. INSTALLATION OF ALL SYSTEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE WORK DESCRIBED IN THE SPECIFICATIONS IS IN CONFLICT WITH THE WORK SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL SUPPLY THE GREATER QUANTITY, QUALITY AND COST VIA THE BID AND CONTACT THE ENGINEER FOR CLARIFICATION ON DIRECTION PRIOR TO INSTALLATION.

PRIOR TO BD, THE CONTRACTOR SHALL REVIEW THE MECHANICAL, ELECTRICAL AND KITCHEN EQUIPMENT DRAWINGS. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL RELEVANT WORK IN THE ENTIRE SET OF DOCUMENTS AND REPORT ALL DISCREPANCIES BETWEEN THESE DRAWINGS TO THE ENGINEER PRIOR TO BIDDING FOR CLARIFICATION. IF DISCREPANCIES REMAIN UNRESOLVED DUE TO A SHORT TIME FRAME, THE CONTRACTOR SHALL INCLUDE THE MOST WORK AND THE HIGHER COSTS IN THE BID. SOLUTIONS TO UNREPORTED DISCREPANCIES WILL BE DETERMINED BY THE ARCHITECT/ENGINEER, WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.

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.
- M3 NOT USED
- M4 NOT USED
- M5 NOT USED
- M6 NOT USED
- M7 NOT USED
- M8 NOT USED
- M9 ROOF PIPE PORTAL FOR MAC UNIT
- M10 ROOF PIPE PORTAL FOR CONDENSING UNITS
- M11 ROOF PIPE PORTAL FOR ROOFTOP UNITS (TYP. 3 PLACES)
- M12 GAS PIPING FROM ROOF PORTAL TO ROOFTOP UNIT SHALL BE COATED WITH A CORROSION RESISTANT PAINT (SEE GAS PIPING NOTES)
- M13 GAS PRESSURE REGULATOR AND SHUT-OFF VALVE (TYP.)
- M14 ARROW INDICATES DIRECTION OF AIRFLOW FOR CONDENSING OR ROOFTOP UNIT AIR INTAKE (TYP.)
- M15 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.

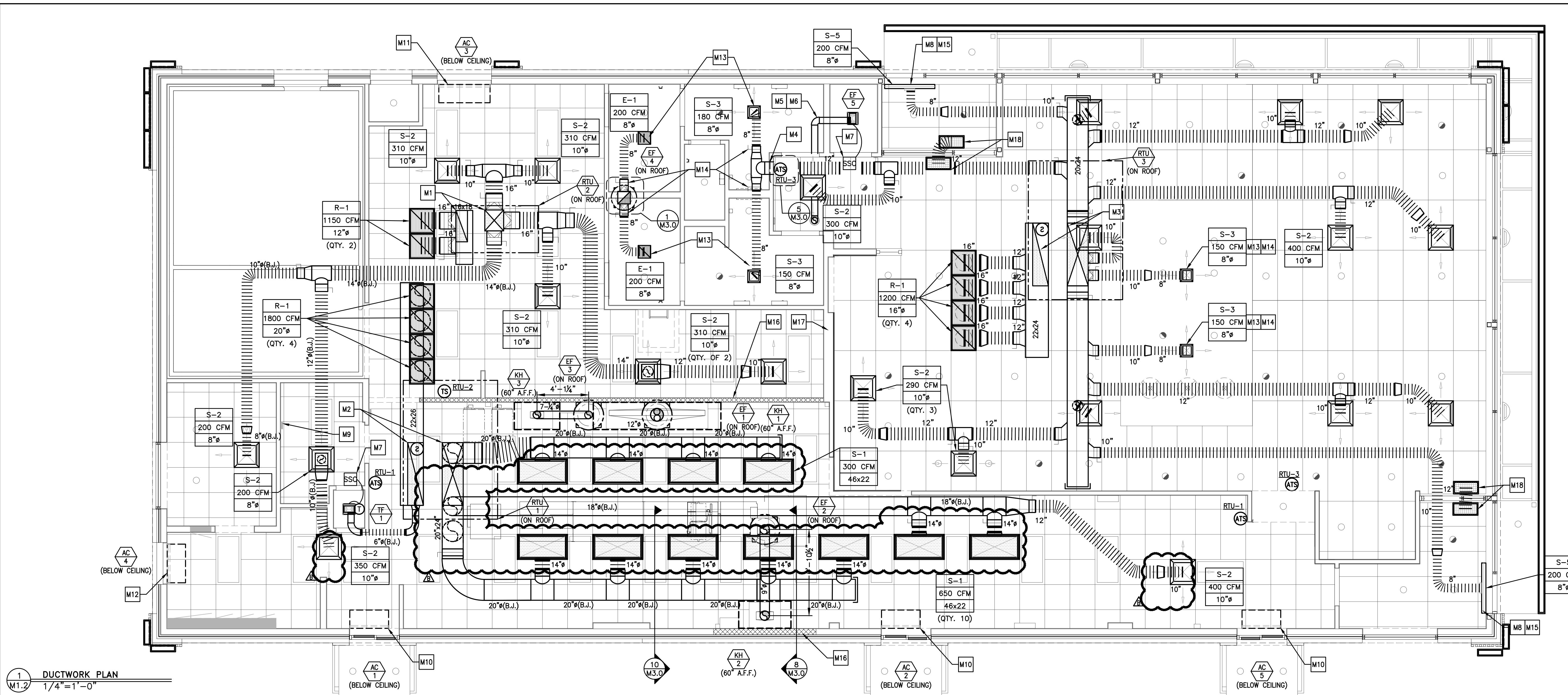
PIPE PORTAL SCHEDULE

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-4
RPS	27"x12"x13"H	RC-2A	N18 (2)	CU-1 THROUGH CU-3

SEQUENCE OF OPERATION

- 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)

PREPARED BY:		McDonald's USA, LLC	
© 2020 McDonald's USA, LLC			
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in conjunction with the issuance of one or more other drawings or plans. These drawings and specifications are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of a licensed architect and engineers. Reproduction of the contract documents for reuse on another project is not authorized.			
PREPARED FOR:		emmanuelson-podas consulting engineers	
3801.0037		Emmanuelson-Podas, Inc. Edina, MN 55439 (612) 990-0050 www.epinc.com	
DRAWN BY: M.J.W.		REVIEWED BY: W.L.W.	
STD ISSUE DATE: 2019-11		TERM ISSUED: 01-23-20	
DESCRIPTION: 2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD WOOD BEARING WALLS W/ FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH		CO2 (FOR DCV) MINIMUM 400 PPM MAXIMUM 1000 PPM	
SITE ID: 015-0071.00.B		SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS	
SHEET NO. 015-0071.00.B		TITLE M1.0	
DRAWING NUMBER: 015-0071.00.B		REVISION NUMBER: 0	
DATE: 12/03/20		BY: MICHAEL WEBER LICENSED 17648 KANSAS PROFESSIONAL ENGINEER 12/03/20	



DRAWING NOTES

- ALL DUCTWORK SHALL BE RUN BETWEEN OR THROUGH THE JOISTS UNLESS NOTED OTHERWISE. DUCTWORK DESIGNATED WITH (B.J.) SHALL BE RUN BELOW THE JOISTS.
- DUCT SIZES SHOWN ARE INTERNAL FREE AREA DIMENSIONS UNLESS NOTED OTHERWISE.
- ALL SHEET METAL DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION IS NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES FOR INSULATION REQUIREMENTS.
- CARBON STEEL KITCHEN EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES AND DETAILS FOR INSULATION REQUIREMENTS.
- RETURN AIRFLOW VOLUME SHOWN ON PLAN IS FOR DUCTWORK SIZING PURPOSES WHEN THE UNIT IS IN RECIRCULATION (UNOCCUPIED) MODE.
- 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.

- 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-3)
- M3 20x60 SUPPLY AND 15x60 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-3)
- M4 PROVIDE SHEET METAL DUCT AT ALL DRAFTSTOP WALL PENETRATIONS (TYP.) (WHERE REQUIRED BY CODE.)
- 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.
- M8 SET DIFFUSER (S-5) FOR VERTICAL AIR 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"
- M13 MINIMUM SWITCHGEAR'S CLEARANCE REQUIREMENT
- 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 CONTRACTOR TO PROVIDE LOUVRED RETURN AIR BEHIND EACH MENU BOARD.

KEYED NOTES

- M18 PROVIDE TITUS 50F OR EQUAL, 24x12 OPEN CEILING GRATE PAINTED TO MATCH CEILING. PROVIDE PLASTER FRAMING FOR DRYWALL CEILING APPLICATIONS.

2015 IMC SECTION 403.3 - VENTILATION SCHEDULE

UNIT	AREA SERVED	AREA FT ²	CFM/PERSON	CFM/FT ³	PEOPLE OR PEOPLE/1000 FT ³	UNCORRECTED REQUIRED O/A CFM	Ez*	REQUIRED O/A CFM (Vot)**	ACTUAL O/A CFM	REQUIRED EXHAUST CFM	ACTUAL EXHAUST CFM
RTU-1	PRESENTER	352	5	0.06	4	42	0.8	0.90			
	KITCHEN	682	7.5	0.18	18		0.8				
RTU-2	SUPPORT	574	0	0.12	0	69	0.8	0.90	-	-	
	MANAGER'S OFFICE	59	5	0.06	1	9	0.8		-	-	
	CREW ROOM	99	5	0.06	5	31	0.8		-	-	
	ORDER	140	5	0.06	7	43	0.8		-	-	
RTU-3	DINING	1759	7.5	0.18	95	1030	0.8	0.91	151	168	400
	PRESENTER	0	5	0.06	0	0	0.8		-	-	
	VESTIBULE 1	90	0	0.06	0	5	0.8		-	-	
	VESTIBULE 2	53	0	0.06	0	3	0.8		-	-	
	WOMEN'S	136	0	0.06	0	8	0.8		-	-	
	MEN'S	122	0	0.06	0	7	0.8		-	-	
RTU-4	PLAYPLACE	0	7.5	0.18	0	1054		0.96	1080	1330	
	EATERY	1759	7.5	0.18	95	1030	0.8		0	0	
EF-1, 2 & 3	KITCHEN	682	-	0.7	-	-	-	-	-	477	2405
EF-4	WOMEN'S	136	-	-	-	-	-	-	100	200	
EF-6	MEN'S	122	-	-	-	-	-	-	100	200	
	PLAYPLACE (UNISEX)	0	-	-	-	-	-	-	0	0	

* Zone Air Distribution Effectiveness Based on ASHRAE 62.1 Table 6.2 for Ceiling Supply of Warm Air 15° F or More Above Space Temperature and Ceiling Return (IMC Table 403.3.1.2)

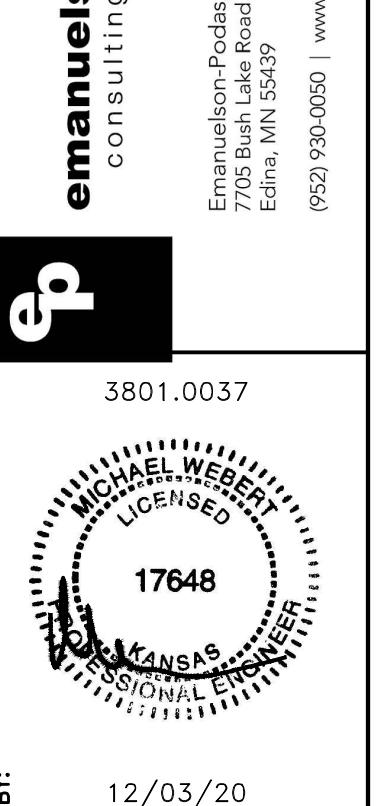
** Ventilation System Efficiency Based on ASHRAE 62.1 Table 6.3 and Section 6.2.5 (IMC Section 403.3.2 MZ)

*** Corrected Required O/A Intake Required for System Calculated Based on ASHRAE 62.1 Section 6.2 (IMC Section 403.3)

DESCRIPTION	HEATING SCHEDULE			
	EQUIPMENT	INPUT (kW)	OUTPUT (BTU/HR)	REQUIRED HEAT (BTU/HR)
ROOFTOP UNIT (RTU-1)	39	133,107	110,956	
ROOFTOP UNIT (RTU-2)	13	44,369	42,383	
ROOFTOP UNIT (RTU-3)	52	177,476	140,516	
TOTALS	104	354,952	293,855	

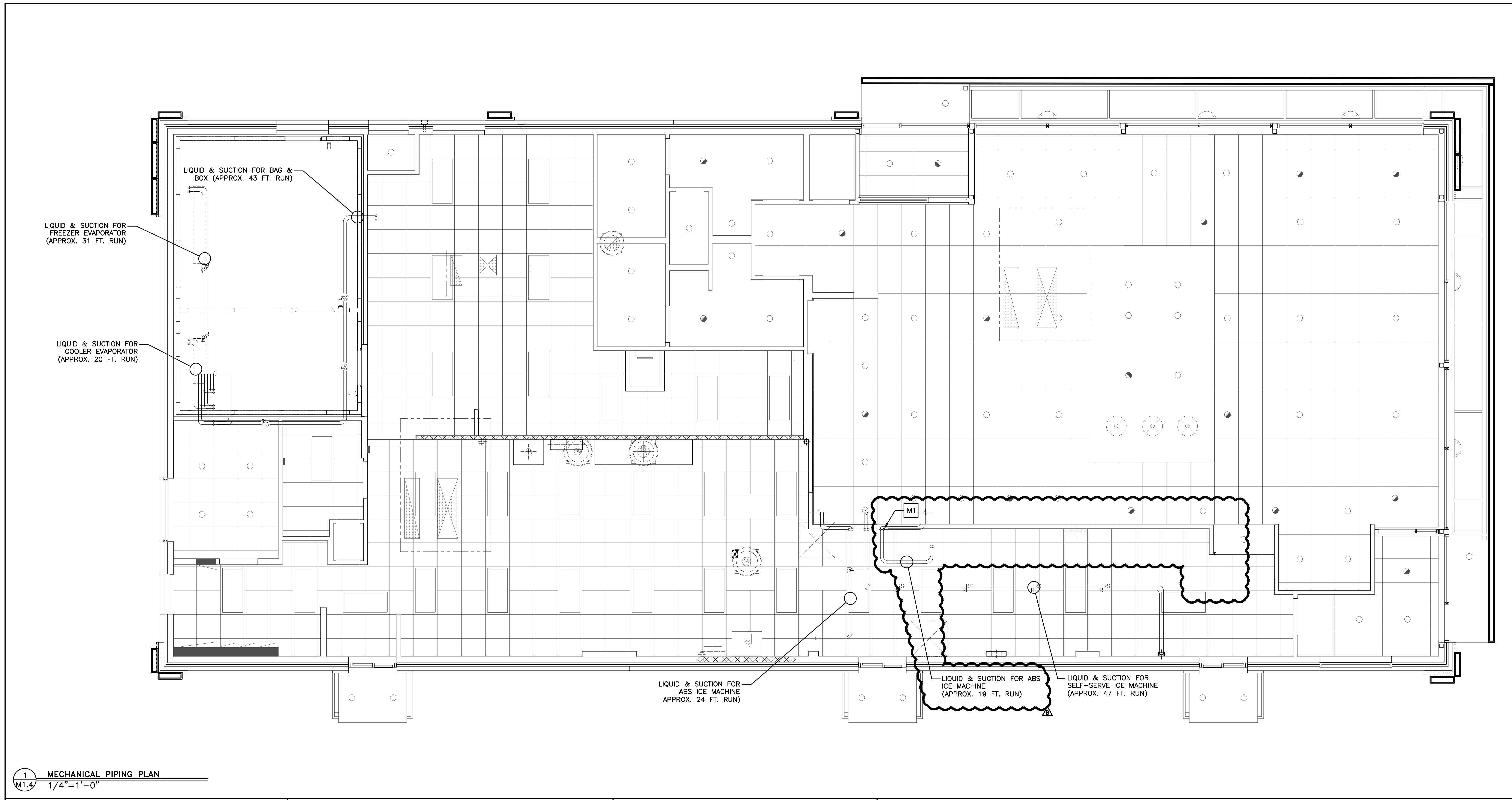
SHEET NO.	TITLE		DRAWN BY	REVIEWED BY	STD ISSUE DATE	STD ISSUE DATE
	2019 STANDARD BUILDING - BB20	4597F10-WOOD/WOOD	M.J.W	N.J.W	12/03/20	12/03/20
015-0071.00.B	DUCTWORK PLAN					
M1.2						

DESCRIPTION	DATE
emmanuelson-podas consulting engineers	12/03/20
Emmanuelson-Podas, Inc.	11/17/20
Edina, MN 55439	05/05/20
(612) 930-0050 www.eppinc.com	01/23/20
PREPARED BY:	12/03/20



McDonald's USA, LLC

These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without the written consent of the owner. The drawings and specifications are issued for use on this specific site in conjunction with the issuance of the permit. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the drawings and specifications for reuse on another project is not authorized.



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

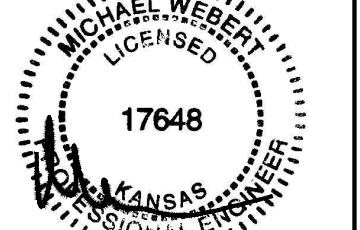
DRAWING NOTES

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

KEYED NOTES

- M1 REFRIGERANT LIQUID AND SUCTION LINES UP THROUGH ROOF TO CONDENSING UNITS (TYP. 6 PLACES - SEE DETAIL 3 ON DRAWING M3.0)

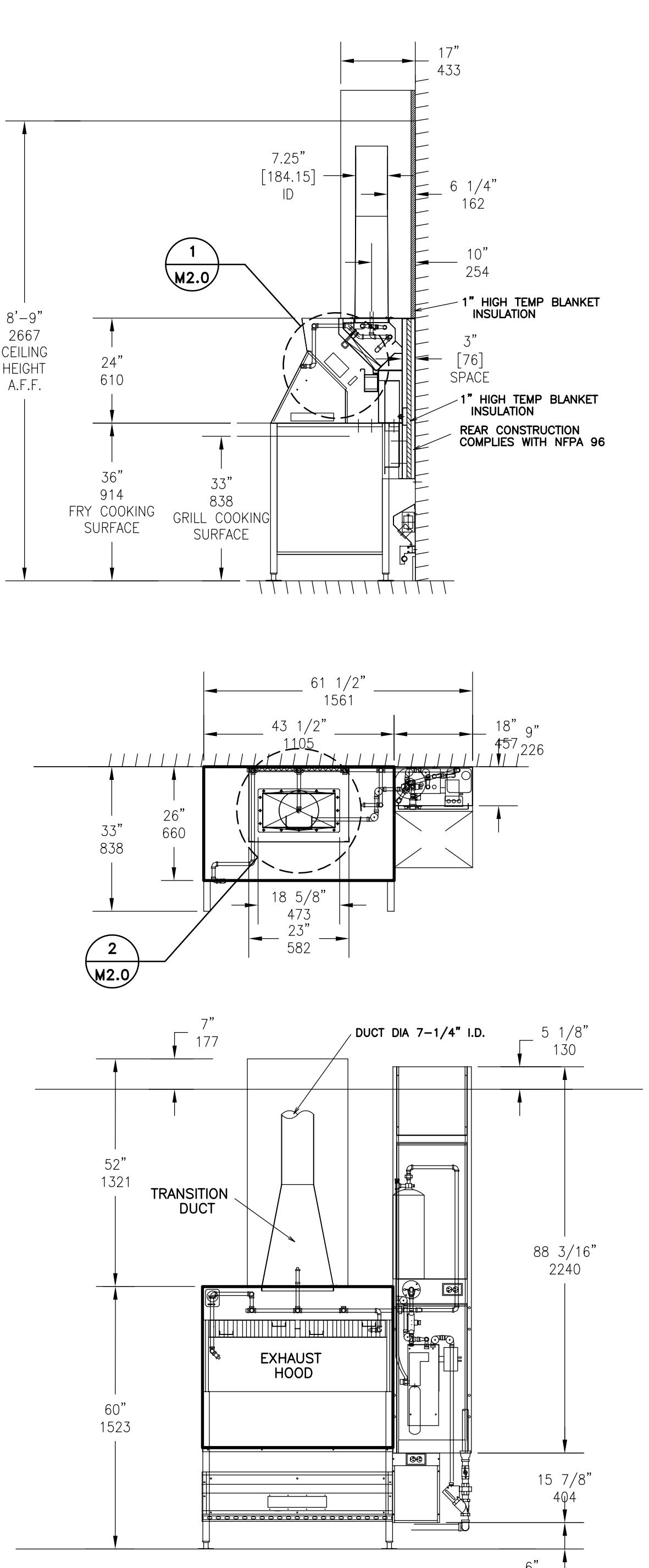
SHEET NO.	TITLE	PREPARED BY:	REVIEWED BY:	DATE ISSUED:	PERMIT SET:	PROGRESS SET REVIEW:	REV:	DESCRIPTION	BY:
015-0071.00.B	M1.4 MECH. PIPING PLAN	McDonald's USA, LLC	W.L.W.	12/03/20	11/13/20	05/05/20	01/13/20	SERVICE AREA OPTIMIZATION USER/SAO SET REVIEW CIVIL & PLAN REVIEW COMMENTS PERMIT SET PROGRESS SET REVIEW	emmanuelson-podas consulting engineers Emmanuel-Podas, Inc. 3801.0037 Edna, IA 50549 (920) 930-0050 www.epinc.com



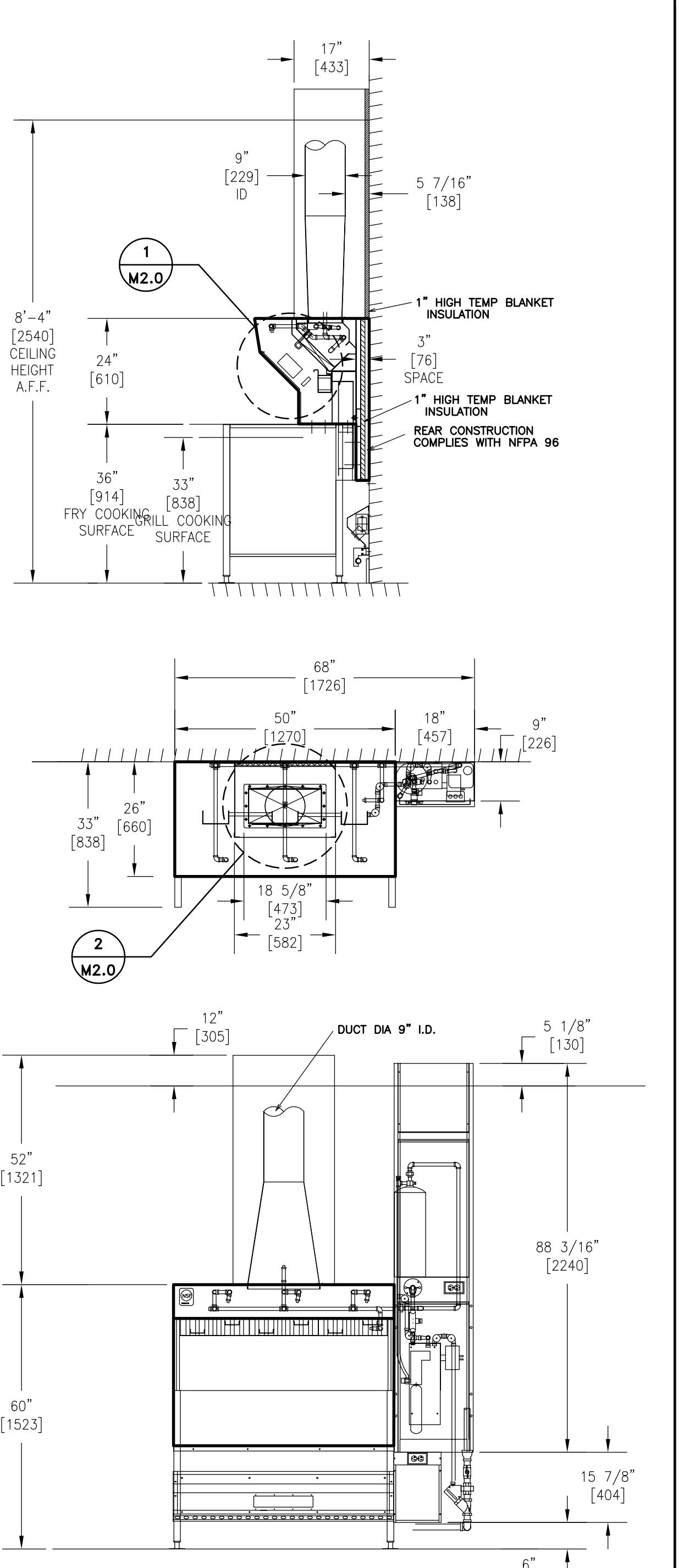
12/03/20

17648

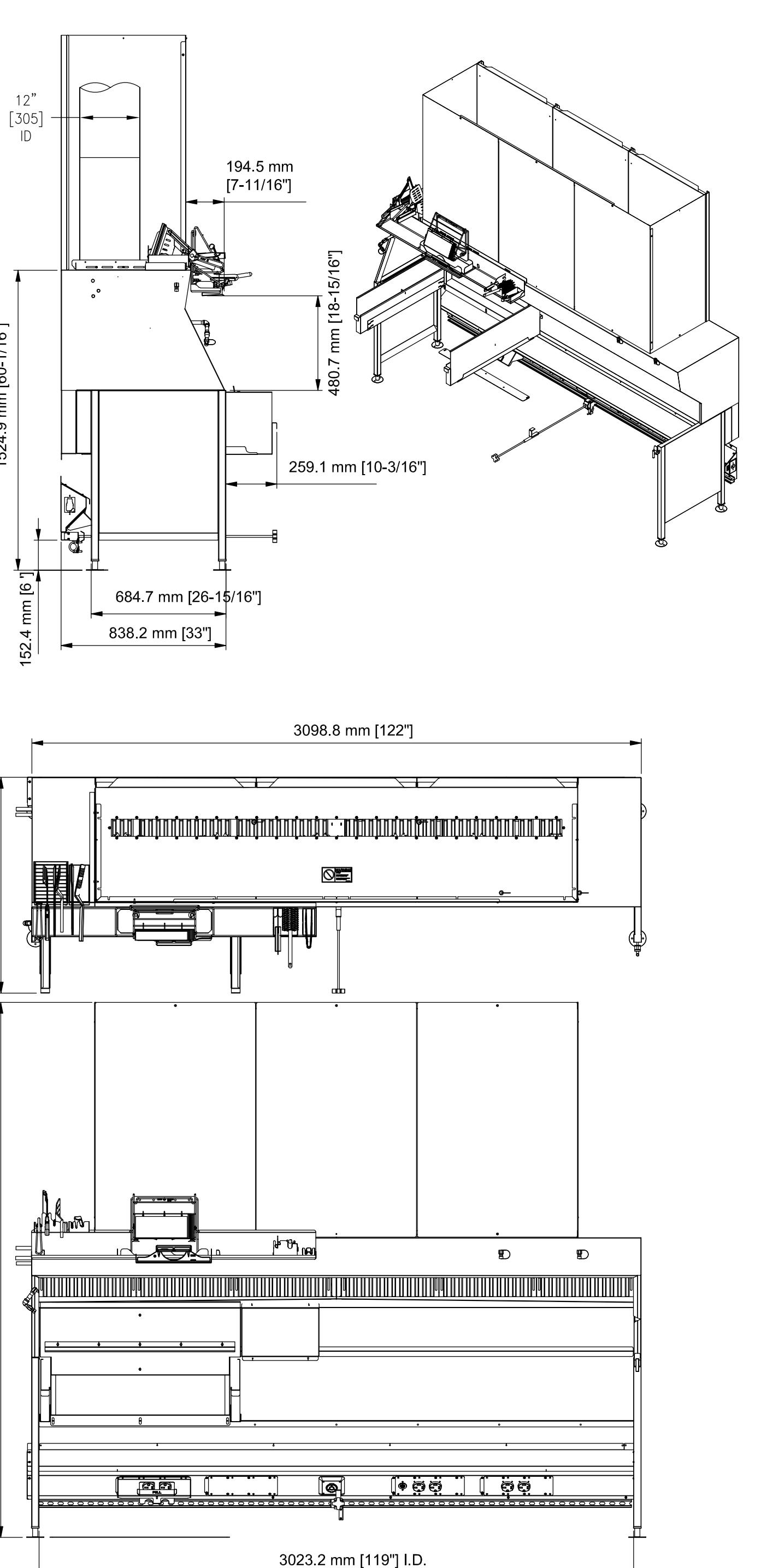
KANSAS
LICENSED PROFESSIONAL ENGINEER



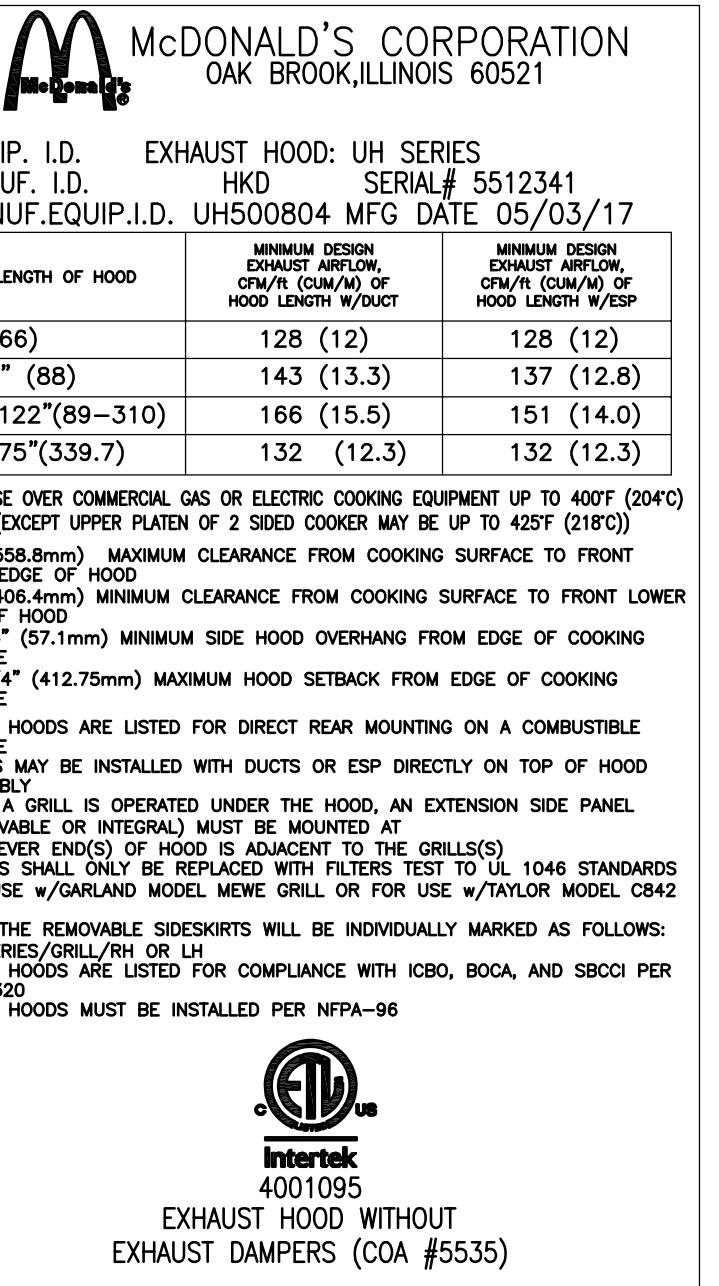
KITCHEN EXHAUST HOOD
TAG: KH-3 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: $\frac{1}{2}''=1'-0''$



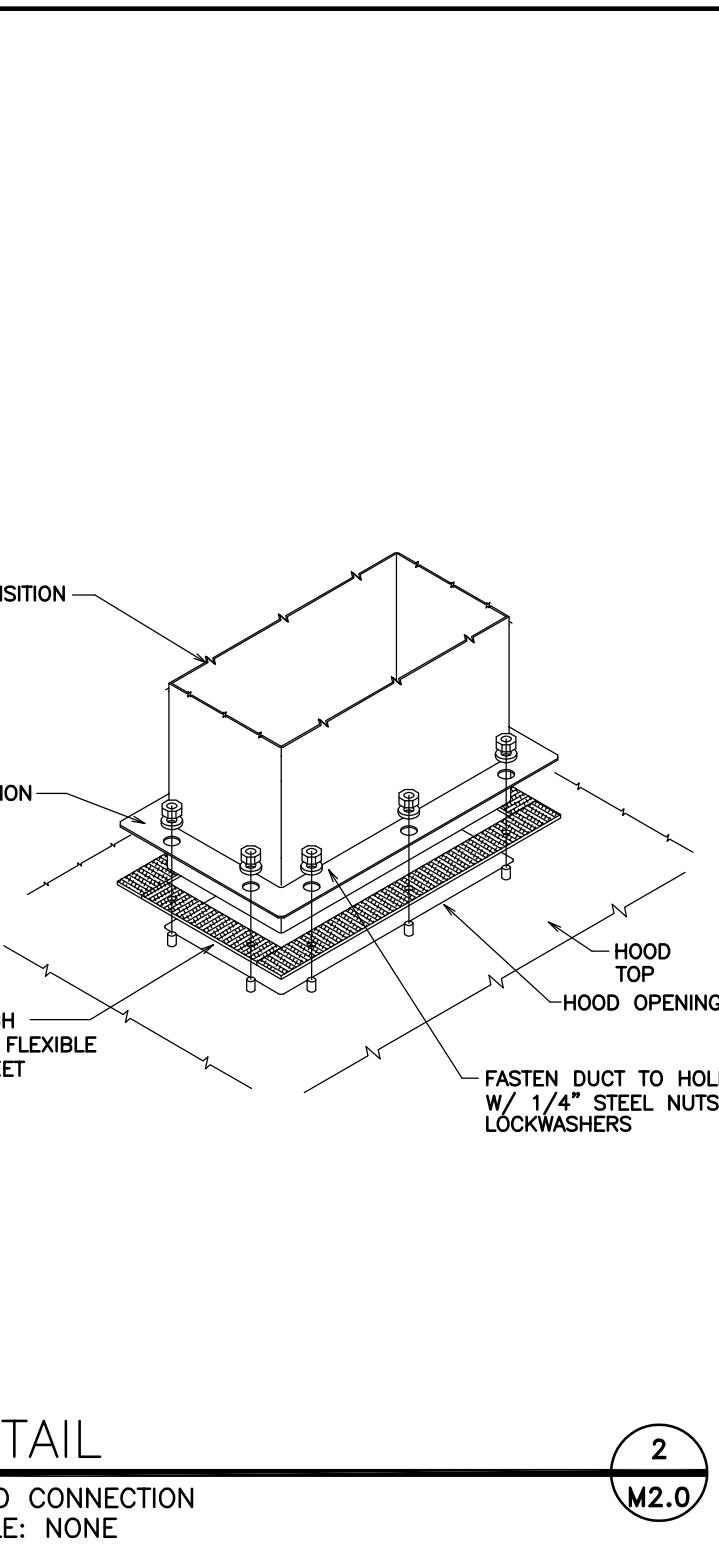
KITCHEN EXHAUST HOOD
TAG: KH-2, KH-3 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: $\frac{1}{2}''=1'-0''$



KITCHEN EXHAUST HOOD
TAG: KH-1 (SEE KITCHEN EXHAUST HOOD SCHEDULE)
SCALE: $\frac{1}{2}''=1'-0''$



DETAIL
UL LABEL
SCALE: NONE



DETAIL
HOOD CONNECTION
SCALE: NONE

OWNER SELECTED EQUIPMENT WITH
MANUFACTURER CUT SHEET
FOR INFORMATION PURPOSES ONLY

TITLE	2019 STANDARD BUILDING - BB20	STD ISSUE DATE	2019-11	REVIEWED BY	WLW
DESCRIPTION	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI				
	WOOD ROOF TRUSS FRAMING				
	FIBER CEMENT PANEL/BATTEN/ALUMINUM/BRICK EXTER. FINISH				
SHEET NO.	015-0071.00.0	SITE ID	015-0071	SITE ADDRESS	605 SOUTH 7TH STREET, KANSAS CITY, KS
					REV. DATE
					BY

3801.0037

17648

01/23/20

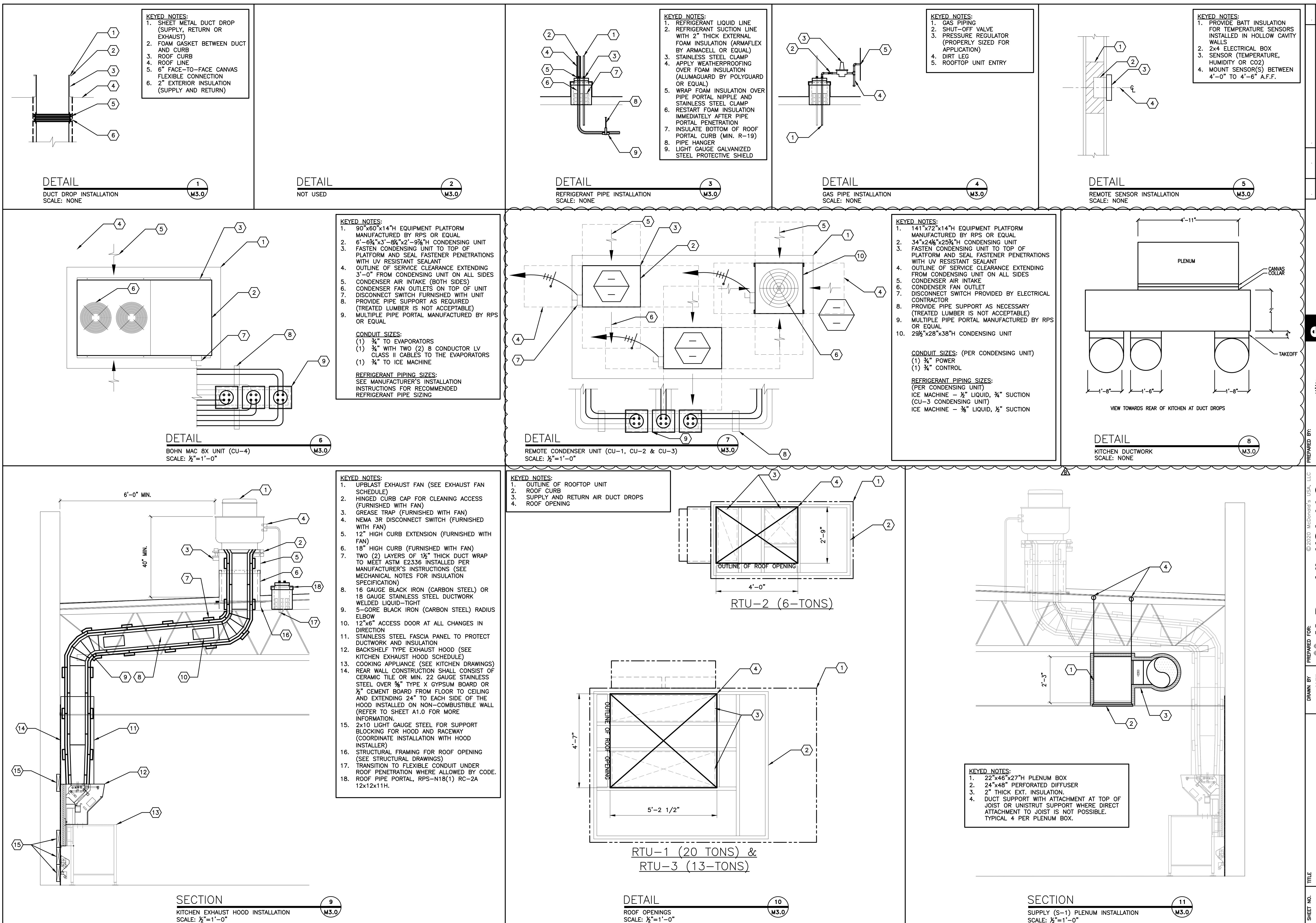
*MICHAEL WEBER
LICENSED
PROFESSIONAL ENGINEER
KANSAS STATE BOARD
REGISTRATION NO. 17648*

© 2020 McDonald's USA, LLC
PREPARED BY: **McDonald's USA, LLC**
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on other projects or sites without the express written consent of McDonald's USA, LLC and its specific project manager. Use of these drawings for reference or example on another project requires the services of a properly licensed architect or engineer. Reproduction of the contract documents for reuse on another project is not authorized.

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 TO E3.2 FOR HOOD/FAN INTERLOCK DETAILS

DRAWN BY: —M.J.W
STD ISSUE DATE: 2019-11
REVIEWED BY: WLW
DESCRIPTION: WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI
WOOD ROOF TRUSS FRAMING
FIBER CEMENT PANEL/BATTEN/ALUMINUM/BRICK EXTER. FINISH
SITE ID: 015-0071.00.0
SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS
REV. DATE: 01-23-20
TITLE: M2.0
DESCRIPTION: EXHAUST HOODS



TITLE	DETAILS	DESCRIPTION	BY
2019 STANDARD BUILDING - BB20	4597F10-WOOD/WOOD	W.L.W.	12/03/20
WOOD BEARING WALLS W/ FIBER CEMENT SIDING & CI	WOOD ROOF TRUSS FRAMING	W.L.W.	05/05/20
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH		W.L.W.	01/23/20
015-0071	015-0071	W.L.W.	PROGRESS SET REVIEW
015-0071	015-0071	W.L.W.	PERMIT SET
015-0071	015-0071	W.L.W.	CIVIL & PLAN REVIEW COMMENTS
015-0071	015-0071	W.L.W.	SAFETY SET REVIEW
015-0071	015-0071	W.L.W.	SERVICE AREA OPTIMIZATION
015-0071	015-0071	W.L.W.	11/17/20

emanuelson-podas
consulting engineers
Emmanuelson-Podas, Inc.
Edina, MN 55439
(612) 930-0050 | www.eppinc.com
3801.0037
MICHAEL WEBER
LICENSED
17648
12/03/20

© 2020 McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in construction with the issued date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.

SHEET NO.	TITLE	DETAILS	PREPARED FOR:
015-0071.00.B	M3.0	SECTION	McDonald's USA, LLC

MECHANICAL NOTES		LEGEND	ABBREVIATIONS																																																																									
<p>GENERAL:</p> <ol style="list-style-type: none"> ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION. 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. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK. 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.ABCHQ.COM/DIRECTORY, HTTP://WWW.NEBC.ORG/DIRECTORY.HTM, HTTP://WWW.TABCERTIFIED.ORG/SITE/CONTENT/CONTRACTORS/SEARCH 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. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM. <p>VENTILATION SYSTEMS:</p> <ol style="list-style-type: none"> ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SMACNA STANDARDS. ALL DUCTWORK DIMENSIONS ARE INTERNAL FREE AREA DIMENSIONS AND SIZED FOR 0.1" W.C. PER 100 FT. OF DUCT. 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. 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. ALL DUCT DROPS INTO THE BUILDING SHALL BE OFFSET AS NECESSARY TO ALLOW FOR THE CLEAR INSTALLATION OF THE EXTERNAL DUCTWORK INSULATION. ALL DUCTWORK BRANCHES SHALL BE SUPPLIED WITH A VOLUME DAMPER FOR BALANCING. VOLUME DAMPER SHALL HAVE A 2" OFFSET TO ACCOMMODATE EXTERNAL INSULATION. 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. 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. ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED WITHIN THE CEILING SPACE SHALL BE EXTERNALLY INSULATED. INSULATION SHALL BE 2" THICK MICROLITE XG-100 BY JOHNS MANVILLE OR EQUAL. 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 1/2" THICK RIGID POLYSTYRENE, POLYURETHANE OR POLYISOCYANURATE BOARD (MIN. R-7.5). INTERNAL FIBERGLASS INSULATION SHALL BE LINATEX BY JOHNS MANVILLE OR EQUAL. EXTERNAL RIGID BOARD INSULATION SHALL BE THERMAPINK BY OWENS CORNING OR EQUAL. 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. 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. 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 BARIER BY POLYGUARD OR EQUAL. BOTTOM OF EXTERNAL WEATHERPROOFING SHALL BE VAPORGUARD 5 MIL MEMBRANE BY POLYGUARD OR EQUAL. ALL FLEXIBLE DUCTWORK, METALLIC AND NONMETALLIC, SHALL CONFORM TO THE FOLLOWING: <ul style="list-style-type: none"> A. 2" THICK INSULATION (R-6.0) B. INTEGRAL VAPOR BARRIER C. LISTED AND LABELED UL 181, CLASS 0 OR CLASS 1 D. INSTALLED IN ACCORDANCE WITH: <ul style="list-style-type: none"> i. SMACNA STANDARDS, ii. AIR DIFFUSION COUNCIL INSTALLATION GUIDELINES, AND/OR iii. MANUFACTURER'S INSTALLATION INSTRUCTIONS FLEXIBLE DUCTWORK SHALL NOT PENETRATE WALLS. SHEET METAL DUCTWORK IS REQUIRED AT ALL FIRE-RATED AND DRAFTSTOP WALL PENETRATIONS. 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. DUCT-MOUNTED SMOKE DETECTORS 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. ALL SUPPLY AIR DIFFUSERS SHALL BE INSULATED TO PREVENT CONDENSATION. ALL AIR DEVICES LOCATED IN DRYWALL CEILINGS SHALL BE SUPPLIED WITH AN INTEGRAL VOLUME DAMPER ACCESSIBLE FROM THE AIR DEVICE FACE TO FACILITATE BALANCING. 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. 		<p>GENERAL:</p> <ol style="list-style-type: none"> GRILL - 6" W.C. NATURAL, 14" W.C. L.P. FRYER - 6" W.C. NATURAL, 14" W.C. L.P. WATER HEATER - 6" W.C. NATURAL, 14" W.C. L.P. HVAC UNIT - 6" W.C. NATURAL, 14" W.C. L.P. IF THE MINIMUM PRESSURES ARE NOT MET, THIS SHALL BE IMMEDIATELY REPORTED TO THE McDONALD'S AREA CONSTRUCTION MANAGER. <p>COMMERCIAL KITCHEN EXHAUST SYSTEMS:</p> <ol style="list-style-type: none"> 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). ALL GREASE EXHAUST DUCTWORK JOINTS SHALL BE EITHER TELESCOPING OR BELL TYPE. BUTT-WELDED JOINTS ARE PROHIBITED. 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. 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. 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". ALL HORIZONTAL GREASE EXHAUST DUCTWORK SHALL BE INSTALLED WITH A MINIMUM 1/4" PER FOOT SLOPE AND SHALL BE PITCHED BACK TOWARD THE HOOD. 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. <p>REFRIGERANT PIPING:</p> <ol style="list-style-type: none"> ALL REFRIGERATION WORK SHALL BE PERFORMED BY A CERTIFIED REFRIGERATION CONTRACTOR. ALL REFRIGERANT PIPING SHALL BE SEAMLESS COPPER TUBING OF TYPE L IN ACCORDANCE WITH ASTM B 88 AND ALL JOINTS SHALL BE SOLDERED. 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. ALL SUSPENDED REFRIGERANT PIPING SHALL BE SUPPORTED AS FOLLOWS: <table border="1"> <thead> <tr> <th>MATERIAL</th> <th>MAX. HORIZ. SPACING</th> <th>MAX. VERT. SPACING</th> </tr> </thead> <tbody> <tr> <td>COPPER TUBING $\leq \frac{1}{4}$"</td> <td>6 FT.</td> <td>10 FT.</td> </tr> <tr> <td>COPPER TUBING $\geq \frac{1}{2}$"</td> <td>10 FT.</td> <td>10 FT.</td> </tr> </tbody> </table> ALL REFRIGERANT PIPING SHALL BE SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. 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. ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL. ALL REFRIGERANT PIPING SYSTEMS SHALL BE PRESSURE TESTED FOR LEAKS PRIOR TO START-UP. ALL LEAKS SHALL BE REMEDIED PRIOR TO BUILDING TURNOVER. <p>CO2 DETECTION EQUIPMENT:</p> <ol style="list-style-type: none"> 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. 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. 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. <p>NATURAL GAS SYSTEMS (IF APPLICABLE):</p> <ol style="list-style-type: none"> 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. THE NATURAL GAS MAIN PIPE SIZING IS BASED ON THE FOLLOWING: <ul style="list-style-type: none"> A. MINIMUM SUPPLY PRESSURE AT THE METER OF 2 PSIG B. 1 PSIG PRESSURE DROP FROM METER TO FARDEST APPLIANCE C. 1,000 BTU PER CU. FT. OF NATURAL GAS GAS PIPING RUN-OUTS TO EQUIPMENT ARE SIZED BASED ON THE FOLLOWING: <ul style="list-style-type: none"> A. SUPPLY PRESSURE AT THE REGULATOR OF 10" W.C. (4" PSIG) B. 0.5" W.C. PRESSURE DROP FROM REGULATOR TO FARDEST APPLIANCE C. 1,000 BTU PER CU. FT. OF NATURAL GAS 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. NATURAL GAS PRESSURE REGULATORS SHALL BE MAXITROL 325 SERIES OR EQUAL. ALL SUSPENDED STEEL PIPING SHALL BE SUPPORTED AS FOLLOWS: <table border="1"> <thead> <tr> <th>SIZE</th> <th>MAX. HORIZ. SPACING</th> <th>MAX. VERT. SPACING</th> </tr> </thead> <tbody> <tr> <td>$\frac{1}{2}$"</td> <td>6 FT.</td> <td>6 FT.</td> </tr> <tr> <td>$\frac{3}{4}$" TO 1"</td> <td>8 FT.</td> <td>8 FT.</td> </tr> <tr> <td>$\geq 1\frac{1}{2}$"</td> <td>10 FT.</td> <td>10 FT.</td> </tr> </tbody> </table> GAS PIPING SHALL NOT PENETRATE ANY FIRE-RATED CHASE OR SHAFT, DUCTWORK OR PLENUM. ALL NATURAL GAS PIPING INSTALLED OUTDOORS SHALL BE COATED WITH A CORROSION RESISTANT PAINT. PAINT COLOR SHALL BE ORANGE OR YELLOW. 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. 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. 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. 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: 	MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING	COPPER TUBING $\leq \frac{1}{4}$ "	6 FT.	10 FT.	COPPER TUBING $\geq \frac{1}{2}$ "	10 FT.	10 FT.	SIZE	MAX. HORIZ. SPACING	MAX. VERT. SPACING	$\frac{1}{2}$ "	6 FT.	6 FT.	$\frac{3}{4}$ " TO 1"	8 FT.	8 FT.	$\geq 1\frac{1}{2}$ "	10 FT.	10 FT.	ABBREVIATIONS <table border="1"> <tr> <td>ACM</td> <td>AREA CONSTRUCTION MANAGER</td> </tr> <tr> <td>B.J.</td> <td>BELOW JOISTS</td> </tr> <tr> <td>BSI</td> <td>BEVERAGE SYSTEM INSTALLER</td> </tr> <tr> <td>DCV</td> <td>DEMAND CONTROL VENTILATION</td> </tr> <tr> <td>E.A.</td> <td>EXHAUST AIR</td> </tr> <tr> <td>EC</td> <td>ELECTRICAL CONTRACTOR</td> </tr> <tr> <td>FAC</td> <td>FIRE ALARM CONTRACTOR</td> </tr> <tr> <td>FOB</td> <td>FLAT ON BOTTOM</td> </tr> <tr> <td>FOT</td> <td>FLAT ON TOP</td> </tr> <tr> <td>FPC</td> <td>FIRE PROTECTION CONTRACTOR</td> </tr> <tr> <td>GC</td> <td>GENERAL CONTRACTOR</td> </tr> <tr> <td>I.D.</td> <td>INSIDE DIMENSION</td> </tr> <tr> <td>KEI</td> <td>KITCHEN EQUIPMENT INSTALLER</td> </tr> <tr> <td>KES</td> <td>KITCHEN EQUIPMENT SUPPLIER</td> </tr> <tr> <td>M.A. (S)</td> <td>MIXED AIR - SUMMER</td> </tr> <tr> <td>M.A. (W)</td> <td>MIXED AIR - WINTER</td> </tr> <tr> <td>MC</td> <td>MECHANICAL CONTRACTOR</td> </tr> <tr> <td>O.A.</td> <td>OUTDOOR AIR</td> </tr> <tr> <td>O.D.</td> <td>OUTSIDE DIMENSION</td> </tr> <tr> <td>O/O</td> <td>OWNER/OPERATOR</td> </tr> <tr> <td>PC</td> <td>PLUMBING CONTRACTOR</td> </tr> <tr> <td>R.A.</td> <td>RETURN AIR</td> </tr> <tr> <td>RC</td> <td>REFRIGERATION CONTRACTOR</td> </tr> <tr> <td>S.A.</td> <td>SUPPLY AIR</td> </tr> <tr> <td>S.P.</td> <td>STATIC PRESSURE</td> </tr> <tr> <td>TAB</td> <td>TEST AND BALANCE CONTRACTOR</td> </tr> </table>	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	TAB	TEST AND BALANCE CONTRACTOR
MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING																																																																										
COPPER TUBING $\leq \frac{1}{4}$ "	6 FT.	10 FT.																																																																										
COPPER TUBING $\geq \frac{1}{2}$ "	10 FT.	10 FT.																																																																										
SIZE	MAX. HORIZ. SPACING	MAX. VERT. SPACING																																																																										
$\frac{1}{2}$ "	6 FT.	6 FT.																																																																										
$\frac{3}{4}$ " TO 1"	8 FT.	8 FT.																																																																										
$\geq 1\frac{1}{2}$ "	10 FT.	10 FT.																																																																										
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																																																																											
TAB	TEST AND BALANCE CONTRACTOR																																																																											

emmanuelson-podas
Consulting Engineers
Emmanuelson-Podas, Inc.
17648
3801.0037

© 2020 McDonald's USA, LLC
PREPARED BY:
MICHAEL WEBER
LICENSED
17648
01/23/20

© 2020 McDonald's USA, LLC
PREPARED FOR:
McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on other projects or sites without the express written consent of McDonald's USA, LLC and shall not be used in conjunction with its issued drawings for use on this specific site or on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of a properly licensed architect or engineer. Reproduction of the contract documents for reuse on another project is not authorized.

SHEET NO. 015-0071.00.0
M4.0
GENERAL NOTES
TITLE: 2019 STANDARD BUILDING - BB20
DRAWN BY: M.J.W.
STD ISSUE DATE: 2019-11
REVIEWED BY: W.L.W.
DATE ISSUED: 01-23-20
DESCRIPTION: WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXTER. FINISH
SITE ADDRESS: 605 SOUTH 7TH STREET, KANSAS CITY, KS
SITE ID: 015-0071
REV. DATE: 01/13/20
USD/R: 01/13/20
PERMIT SET: 01/23/20
PROGRESS SET REVIEW: 01/13/20
BY: REV. DATE: 01/13/20

COORDINATION SCHEDULE

	FURNISH	INSTALL	FINAL CONNECTION	NOTES
GENERAL REQUIREMENTS				1-3
MECHANICAL PERMIT	MC			1-3
HOT WORK (WELDING) PERMIT (IF APPLICABLE)	KES			1-3
REFRIGERATION PERMIT (IF APPLICABLE)	MC			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	MC	MC		1-5, 17, 22
ROOF CURBS	MC	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	MC	MC		1-3, 17, 22
ROOF CURBS	MC	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				
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	PC	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	MC	MC		1-3, 6, 17, 22
ROOF CURBS	MC	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
GAS PIPING (IF APPLICABLE)	KES	EC	EC	1-3, 24, 27
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	PC	PC		1-3, 23, 27
FAUCET	PC	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 SPRINKLER 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	MC	EC	EC	1-3, 22, 27

AIR DEVICE SCHEDULE

TAG	MANUFACTURER	MODEL	BORDER	SIZE	COLOR	ACCESSORIES	NOTES
S-1	TITUS	PDR	LAY-IN	48x24	WHITE	7	1,2
S-2	TITUS	SPD	LAY-IN	24x24	VARIABLE	4,6,7	1,6,7
S-3	TITUS	SPD	LAY-IN	12x12	VARIABLE	1,2,7	1,3,6
S-5	TITUS	TBDI-80	LAY-IN	(1) 48" SLOT	VARIABLE	7	1,5,6
R-1	TITUS	60L	LAY-IN	24x24	VARIABLE	3,7	1,6
E-1	TITUS	60L	LAY-IN	12x12	WHITE	1,7	1

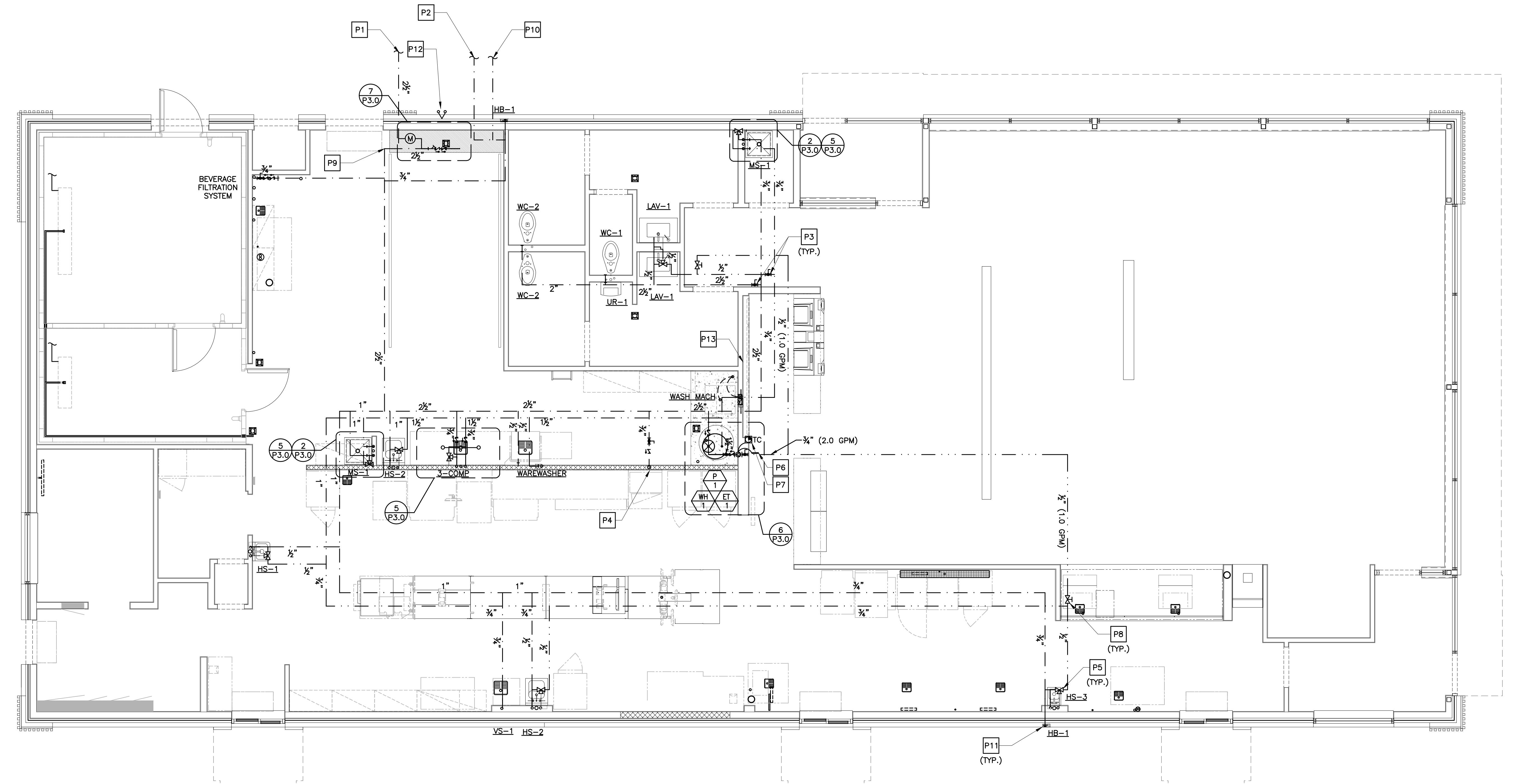
NOTES:

- 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 AREA 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 SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED WITH THE AREA 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 AREA 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

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

TAG	MANUFACTURER	MODEL	SERVES	AIRFLOW	ELEC	ACCESS.	NOTES
AC 1	POWERED AIRE	MP 1-30E	CASH BOOTH	VARIABLE	8 KW 1/2 HP	2,3,5-7	1-2
AC 2	POWERED AIRE	MP 1-30E	PRESENTER'S BOOTH	VARIABLE	8 KW 1/2 HP	2,3,5-7	1-2
AC 3	POWERED AIRE	RBT 1-48	STORAGE ENTRANCE	2,559 CFM	MCA: 10 MOPC: 20 3/4 HP	1-4	1,2
AC 4	POWERED AIRE	RBT 1-36	REAR ENTRANCE	2,541 CFM	MCA: 10 MOPC: 20 3/4 HP	1-4	1,2
AC 5	POWERED AIRE	MP 1-30	FORWARD PRESENTER'S BOOTH	VARIABLE	MCA: 5.5 MOPC: 10 3/4 HP	2-4	1,2</td



1 DOMESTIC WATER PIPING PLAN
P1.0 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.
2. ALL WATER DISTRIBUTION PIPING SHALL BE INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS.
3. ALL OUTDOOR UTILITIES MOUNTED ON THE WALL MUST BE PAINTED TO MATCH THE BUILDING

DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN ON DRAWINGS, OR SHOWN ON DRAWINGS BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS. IF NOT OTHERWISE DIRECTED, INSTALLATION OF ALL SYSTEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE WORK DESCRIBED IN THE SPECIFICATIONS IS IN CONFLICT WITH THE WORK SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL SUPPLY THE GREATER QUANTITY, QUALITY AND COST VIA THE BID AND CONTACT THE ENGINEER FOR CLARIFICATION ON DIRECTION PRIOR TO INSTALLATION.

PRIOR TO BID, THE CONTRACTOR SHALL REVIEW THE MECHANICAL, ELECTRICAL AND KITCHEN EQUIPMENT DRAWINGS. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL RELEVANT WORK IN THE ENTIRE SET OF DOCUMENTS AND REPORT ALL DISCREPANCIES BETWEEN THESE DRAWINGS TO THE ENGINEER PRIOR TO BIDDING FOR CLARIFICATION. DISCREPANCIES REMAIN UNRESOLVED DUE TO A SHORT TIME FRAME, THE CONTRACTOR SHALL INCLUDE THE MOST WORK AND THE HIGHER COSTS IN THE BID. SOLUTIONS TO UNREPORTED DISCREPANCIES WILL BE DETERMINED BY THE ARCHITECT/ENGINEER, WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.

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 AND HOSE BIBB ISOLATION. SEE VALVE SCHEDULE. ALL LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P4 1/4" COLD WATER UP TO ROOF HYDRANT.
- P5 MIXING VALVE LOCATIONS SHOWN FOR INFORMATIONAL PURPOSES. SEE DETAIL 3 ON DRAWING P3.0 FOR MIXING VALVE INSTALLATION DETAILS.
- P6 PIPE-MOUNTED AQUASTAT TO SHUT PUMP DOWN WHEN RECIRCULATION TEMPERATURE REACHES 140°F. SEE DETAIL 6 ON DRAWING P3.0.
- P7 TIME CLOCK TO SHUT PUMP AND WATER HEATER DOWN DURING UNOCCUPIED HOURS. SEE ELECTRICAL DRAWINGS FOR WIRING DETAIL.
- P8 BALANCING VALVE FOR RECIRCULATION SYSTEM. SEE VALVE SCHEDULE. ALL BALANCING VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P9 WATER PIPING AFTER CEILING PENETRATION CAN TRANSITION TO CPVC WHERE PERMITTED BY CODE.
- P10 VERIFY IRRIGATION SYSTEM, PROVIDE WATER LINE WITH BACKFLOW PREVENTER, VERIFY EXACT LOCATION WITH LANDSCAPE. 1" SEWER DEDUCT METER AND BACKFLOW ASSEMBLY.
- P11 PROVIDE FREEZE PROOF HYDRANT.

FIRE DEPARTMENT SIAMESE CONNECTION. SPRINKLER CONTRACTOR SHALL ROUTE LINE IN ACCESSIBLE CEILING SPACE FROM CONNECTION TO FIRE SPRINKLER SERVICE. MAKE ALL CONNECTIONS REQUIRED. VERIFY PIPE SIZE AND LOCATION OF SIAMESE WITH CIVIL AND FIRE MARSHALL. PROVIDED BY OTHERS. COORDINATE LOCATION OF SIAMESE CONNECTION WITH FIRE SPRINKLER SHEETS.

P13 PROPERLY SEAL ALL PIPE PENETRATIONS THROUGH ANY FIRE WALL(TYP)

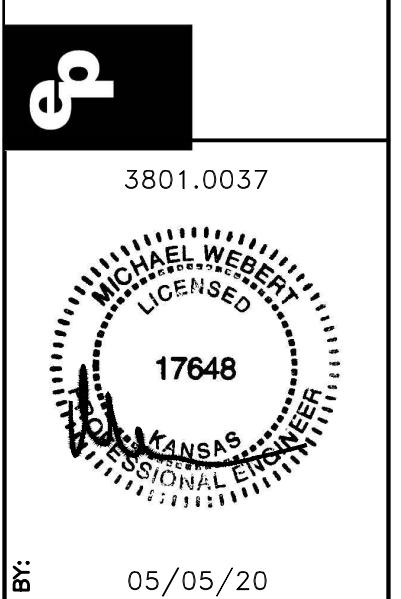
SUPPLY PIPE SIZING - UPC

Fixture Type	SIZE	SUPPLY HW	SUPPLY CW	QUANTITY	TOTAL
URINAL	1 IN.	0	20	1	20
WATER CLOSET	1 IN.	0	90	3	90
LAVATORY SINK	1/2 IN.	1	1	2	2
WASH SINK (HAND SINK)	1/2 IN.	2	2	4	8
MOP SINK	3/4 IN.	3	3	2	6
VEGETABLE SINK	3/4 IN.	0	3	1	3
3-COMP SINK	3/4 IN.	3	3	1	3
WASHING MACHINE	3/4 IN.	4	4	1	4
DISH WASHER	3/4 IN.	1.5	1.5	1	3
HOSE BIB	3/4 IN.	0	2.5	4	5.5
LAWN SPRINKLER	1/2 IN.	0	1	4	4
WATER FILTRATION SYSTEM	3/4 IN.	0	1	3	3
CLEANING FAUCET	1/2 IN.	2	2	0	0
TOTAL					151.5

IF YOU HAVE ANY QUESTIONS REGARDING THE PLANS, PLEASE CALL THE DESIGNER.

DESIGNER: Wendy Wenborg
PHONE/FAX: 952-540-4047
EMAIL: wwwenborg@epinc.com

PREPARED BY:	emmanuelson-podas
CONSULTING ENGINEERS	Emmanuelson-Podas, Inc. Edina, MN 55439 (612) 990-0050 www.epinc.com
DATE:	05/05/20
W/L/W	01/23/20 PERMIT SET
W/L/W	01/13/20 USD PROGRESS SET REVIEW
W/L/W	REV DATE



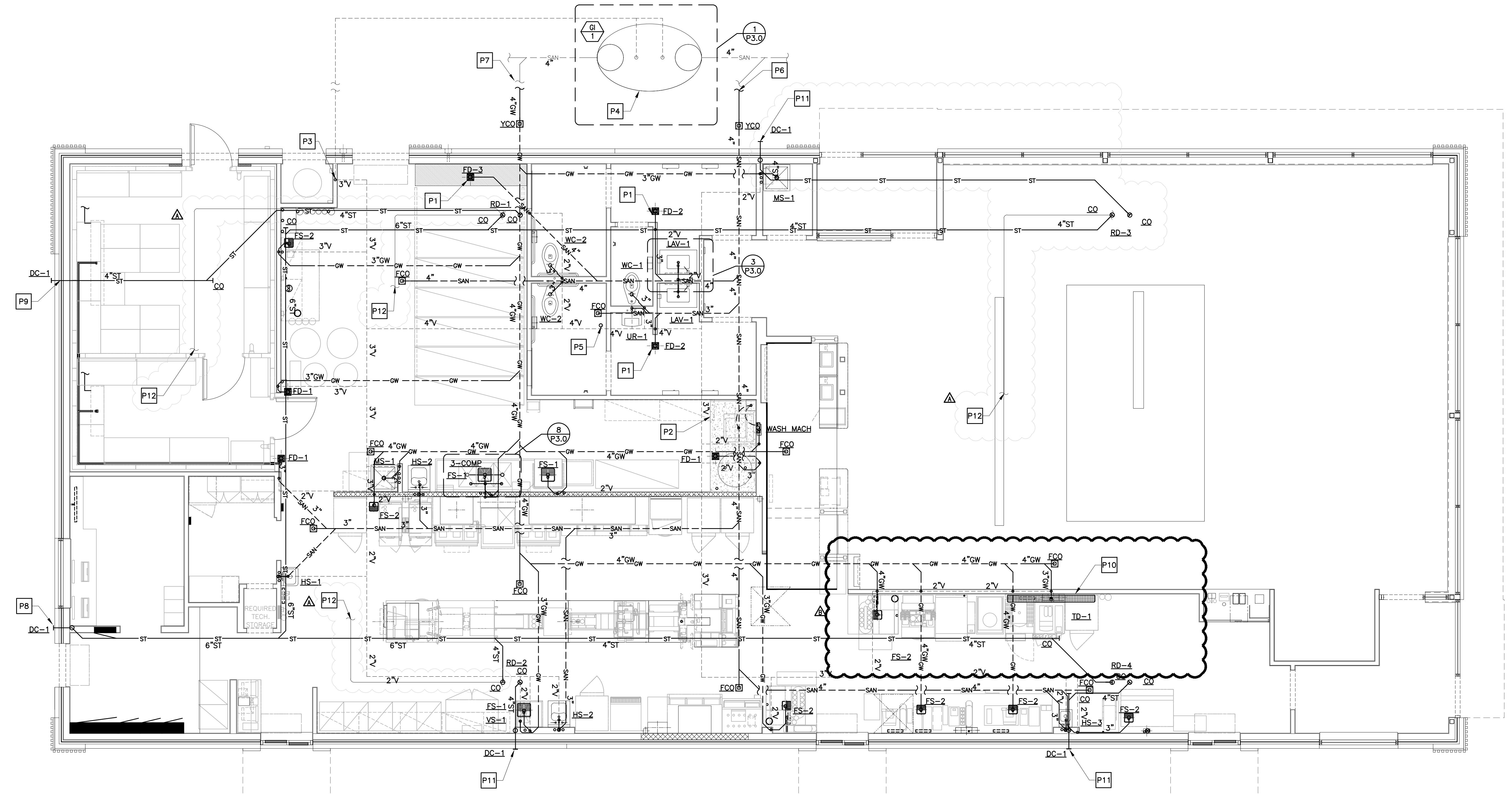
05/05/20

17648

KANSAS STATE BOARD OF ENGINEERING

05/05/20

1764



1 WASTE & VENT PIPING PLAN
P1.2 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 PROVIDE PROSET TRAP GUARD® OR TRAP PRIMER FOR FLOOR DRAIN OR FLOOR SINK.
- P2 TOP OF CONCRETE SLAB IS 0'-6" A.F.F.
- P3 VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.
- P4 GREASE INTERCEPTOR LOCATION SHOWN FOR REFERENCE ONLY. COORDINATE GREASE INTERCEPTOR LOCATION WITH CIVIL ENGINEER AND SITE CONTRACTOR.
- P5 4"x5" VENT THROUGH ROOF
- P6 SANITARY LINE TO SANITARY SEWER. SEE SITE PLAN FOR CONTINUATION.
- P7 GREASE LINE TO EXTERIOR GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION
- P8 TERMINATE BOTTOM OF PRIMARY STORM DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER.
- P9 TERMINATE OVERFLOW DRAIN AS HIGH AS POSSIBLE WITH DOWNSPOUT COVER.
- P10 REFERENCE MANUFACTURER INSTALLATION GUIDE FOR LAYOUT GUIDELINES PRIOR TO INSTALL AND POURING THE SLAB
- P11 TERMINATE BOTTOM OF OVERFLOW DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER.
- P12 ROUTE CONDENSATE TO ROOF DRAIN AS SHOWN

WASTE PIPE SIZING - UPC

Fixture Type	TRAP SIZE	DFU	QUANTITY	TOTAL
URINAL	2 IN.	2	1	2
WATER CLOSET	3 IN.	4	3	12
LAVATORY SINK	1 1/4 IN.	1	2	2
WASH SINK (HAND SINK)	1 1/2 IN.	2	4	8
FLOOR DRAIN OR SINK	3 IN.	6	5	30
FLOOR DRAIN OR SINK	4 IN.	8	1	8
FLOOR DRAIN EMERGENCY	3 IN.	0	0	0
TOTAL				62

GREASE PIPE SIZING - UPC

MOP SINK	3 IN.	3	2	6
FLOOR DRAIN OR SINK	3 IN.	6	10	60
TRENCH DRAIN	4 IN.	8	1	8
WASHING MACHINE	2 IN.	1	3	3
TOTAL				77

STORM PIPE SIZING

RAINFALL = 4 IN./HR
VERTICAL LEADERS

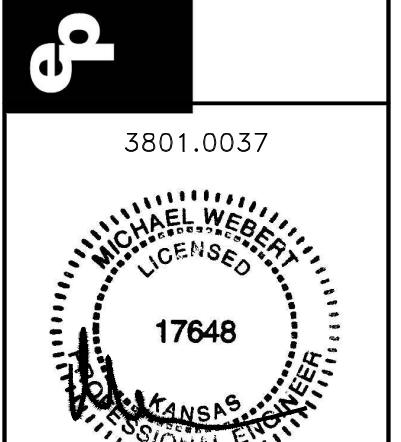
ROOF AREA	SIZE
SQ. FT.	IN.
RD-1	1,345
RD-2	1,340
RD-3	1,145
RD-4	1,145
TOTAL	4,975

HORIZONTAL PIPING (SLOPE X" PER FOOT)

ROOF AREA	SIZE
SQ. FT.	IN.
RD-1	1,345
RD-2	1,340
RD-3	1,145
RD-4	1,145
TOTAL	4,975

DESCRIPTION	REV DATE
W.L.W. SERVICE AREA OPTIMIZATION	12/03/20
W.L.W. USD 500 SET REVIEW	11/13/20
W.L.W. CIVIL & PLAN REVIEW COMMENTS	05/05/20
W.L.W. PERMIT SET	01/23/20
W.L.W. PROGRESS SET REVIEW	01/13/20
W.L.W. REV DATE	

emmanuelson-podas consulting engineers
380.00.037
Michael Weber
LICENSED
17648
KANSAS STATE BOARD OF ENGINEERS
12/03/20



© 2020 McDonald's USA, LLC
PREPARED BY:

McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in construction with the issuance date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.

© 2020 McDonald's USA, LLC
PREPARED FOR:
McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in construction with the issuance date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.

PREPARED BY:
M.J.W.
PREPARED FOR:
McDonald's USA, LLC

These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in construction with the issuance date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.

REVIEWED BY:
W.L.W.

STD ISSUE DATE:
2019-11

DATE ISSUED:
01-23-20

RO#1975

DESCRIPTION:
2019 STANDARD BUILDING - BB20

TITLE:
4597F10-WOOD/WOOD

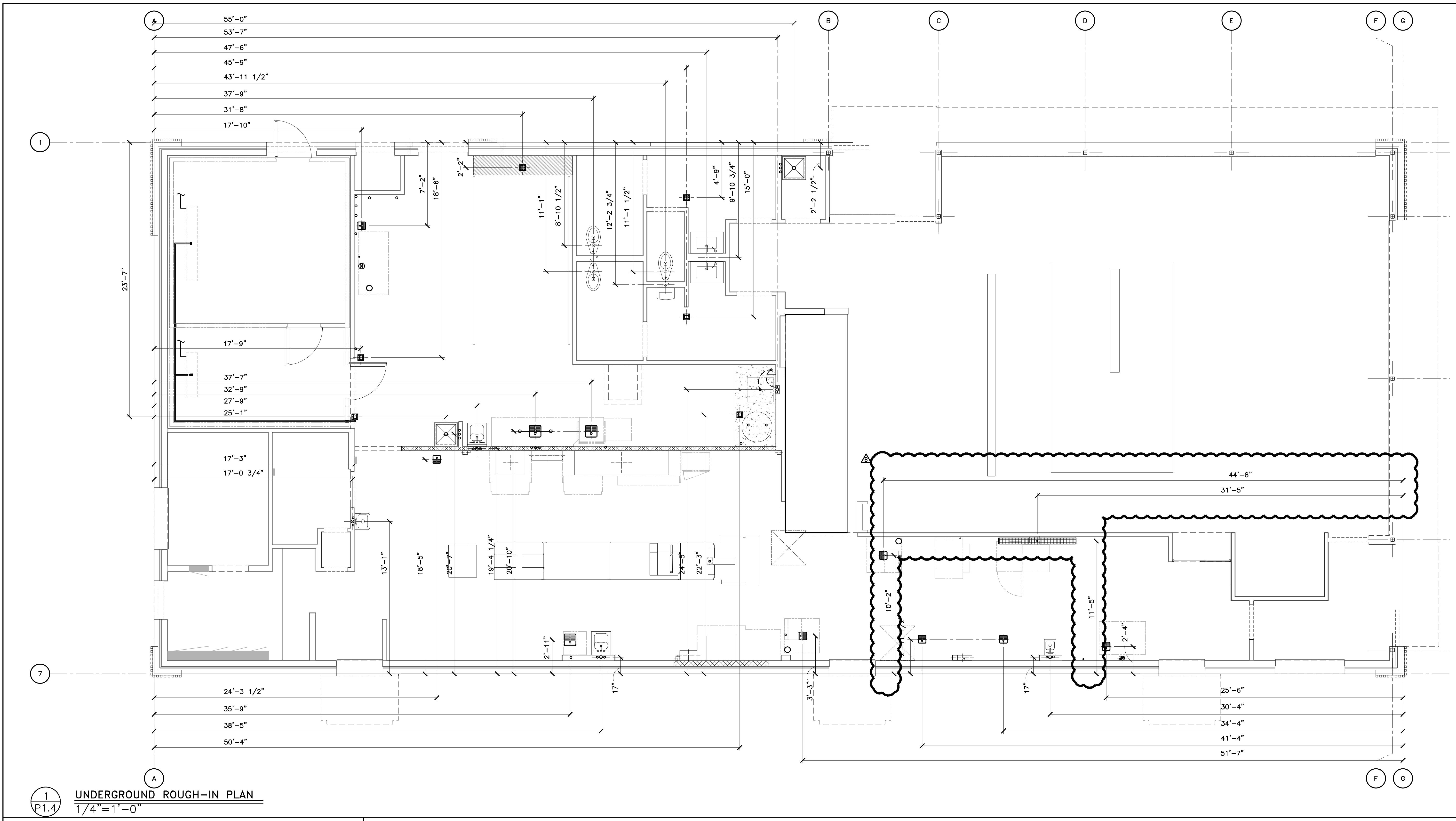
ITEM NO.:
015-0071.00.B

W.L.W. SITE ADDRESS:
605 SOUTH 7TH STREET, KANSAS CITY, KS

W.L.W. SITE ID:
015-0071

W.L.W. SHEET NO.:
P1.2

W.L.W. DRAWING NUMBER:
WASTE, VENT & STORM PIPING

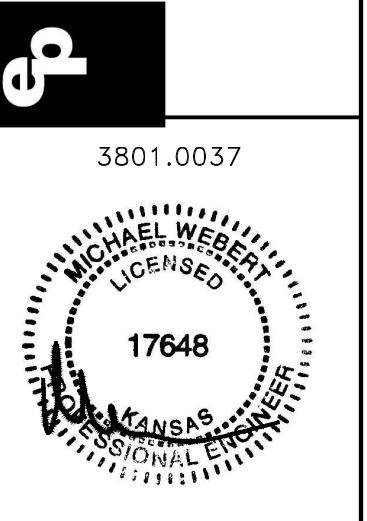


DRAWING NOTES

1. THIS PLAN IS PROVIDED AS A GUIDE FOR THE PLUMBING CONTRACTOR. ALL DIMENSIONS ARE ROUNDED TO THE NEAREST $\frac{1}{4}$ ", AND ARE TAKEN FROM ARCHITECTURAL GRID LINES.

SHEET NO.	TITLE	PREPARED BY:	REVIEWED BY:	DATE ISSUED:	DESCRIPTION	REV:	BY:
015-0071.00.B	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	M.J.W 2019-11	W.L.W 11/17/20	12/03/20	SERVICE AREA OPTIMIZATION		

W.L.W	11/17/20	USED SAO SET REVIEW
W.L.W	05/05/20	CIVIL & PLAN REVIEW COMMENTS
W.L.W	01/23/20	PERMIT SET
W.L.W	01/13/20	PROGRESS SET REVIEW
W.L.W		REV DATE



3801.0037

17648

12/03/20

© 2020 McDonald's USA, LLC

McDonald's USA, LLC

PREPARED FOR:

McDonald's USA, LLC

DRAWN BY:

M.J.W

STD ISSUE DATE:

2019-11

REVIEWED BY:

W.L.W

DATE ISSUED:

01-23-20

DESCRIPTION:

WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI

WOOD ROOF TRUSS FRAMING

FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH

SITE ID:

015-0071

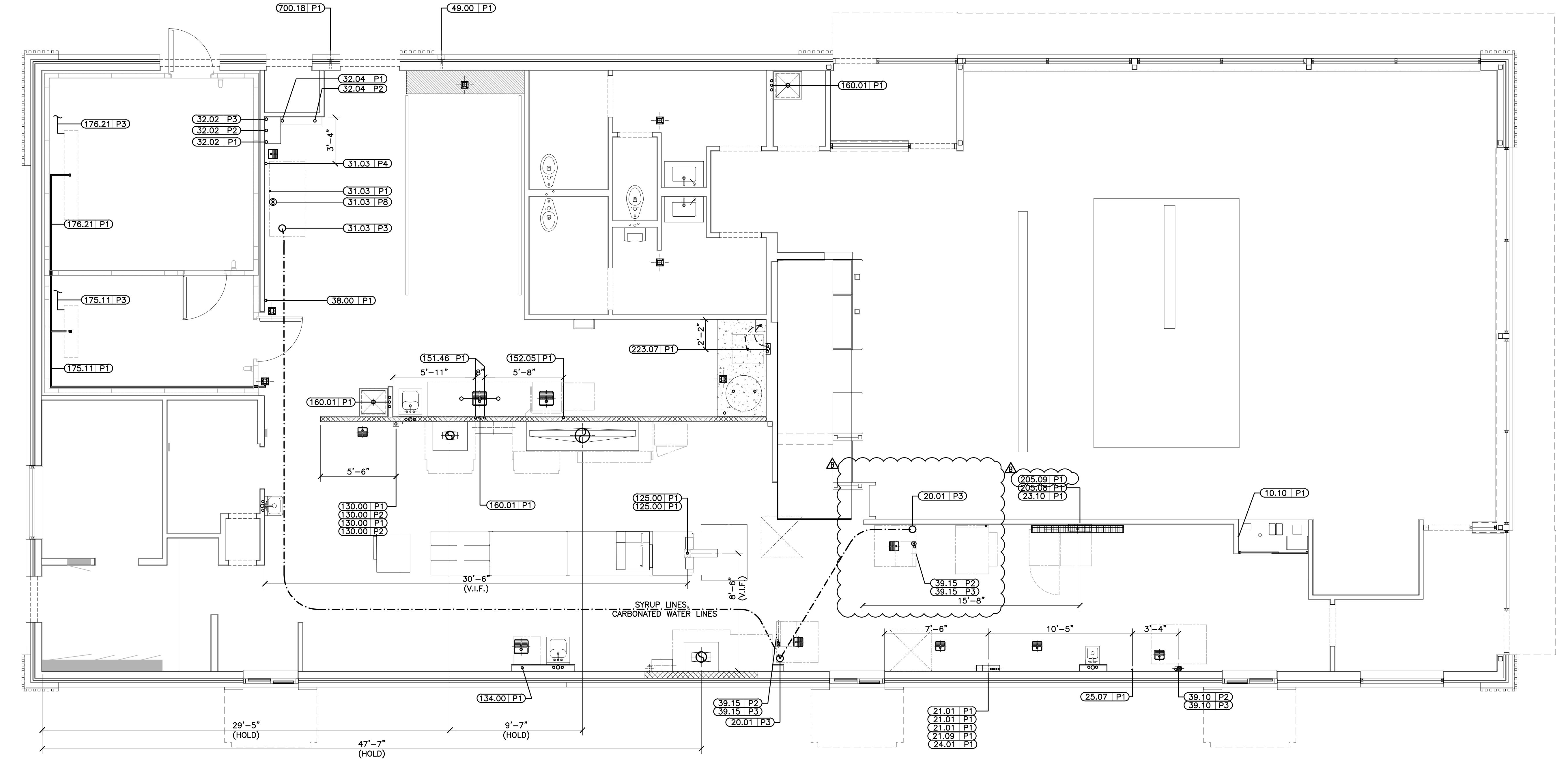
SITE ADDRESS:

605 SOUTH 7TH STREET, KANSAS CITY, KS

REF#19175

P1.4
UNDERGROUND ROUGH-IN

SEE SHEET P1.6 FOR OVERHEAD
DIMENSIONS AND PLUMBING SCHEDULE.



OVERHEAD ROUGH-IN PLAN
P1.6 1/4"=1'-0"

SEE SHEET P1.4 FOR
UNDERGROUND ROUGH-IN PLAN

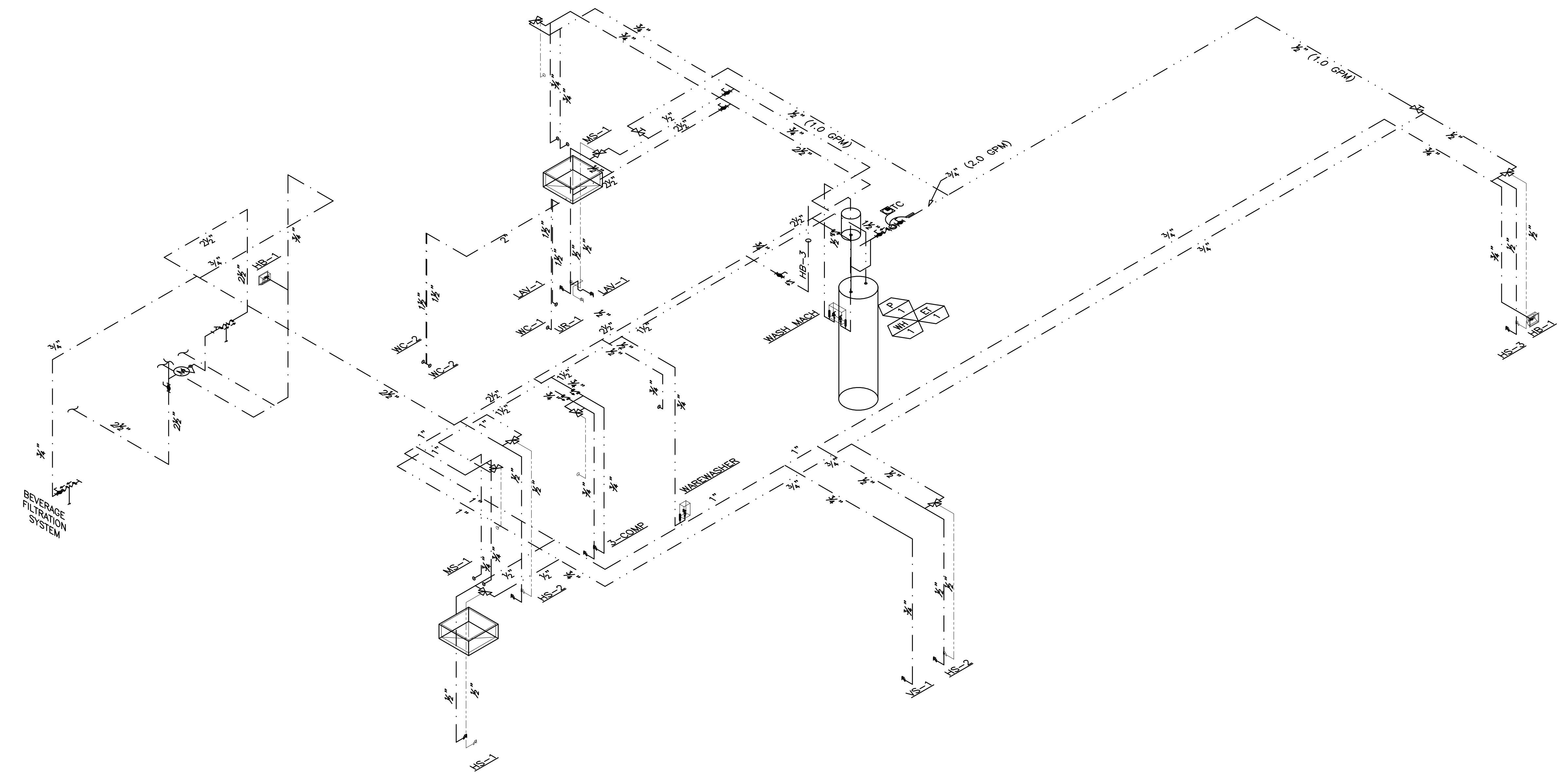
VIF = Verify in Field
PC = Plumbing Contractor
BSI = Beverage System Installer

PLUMBING SCHEDULE

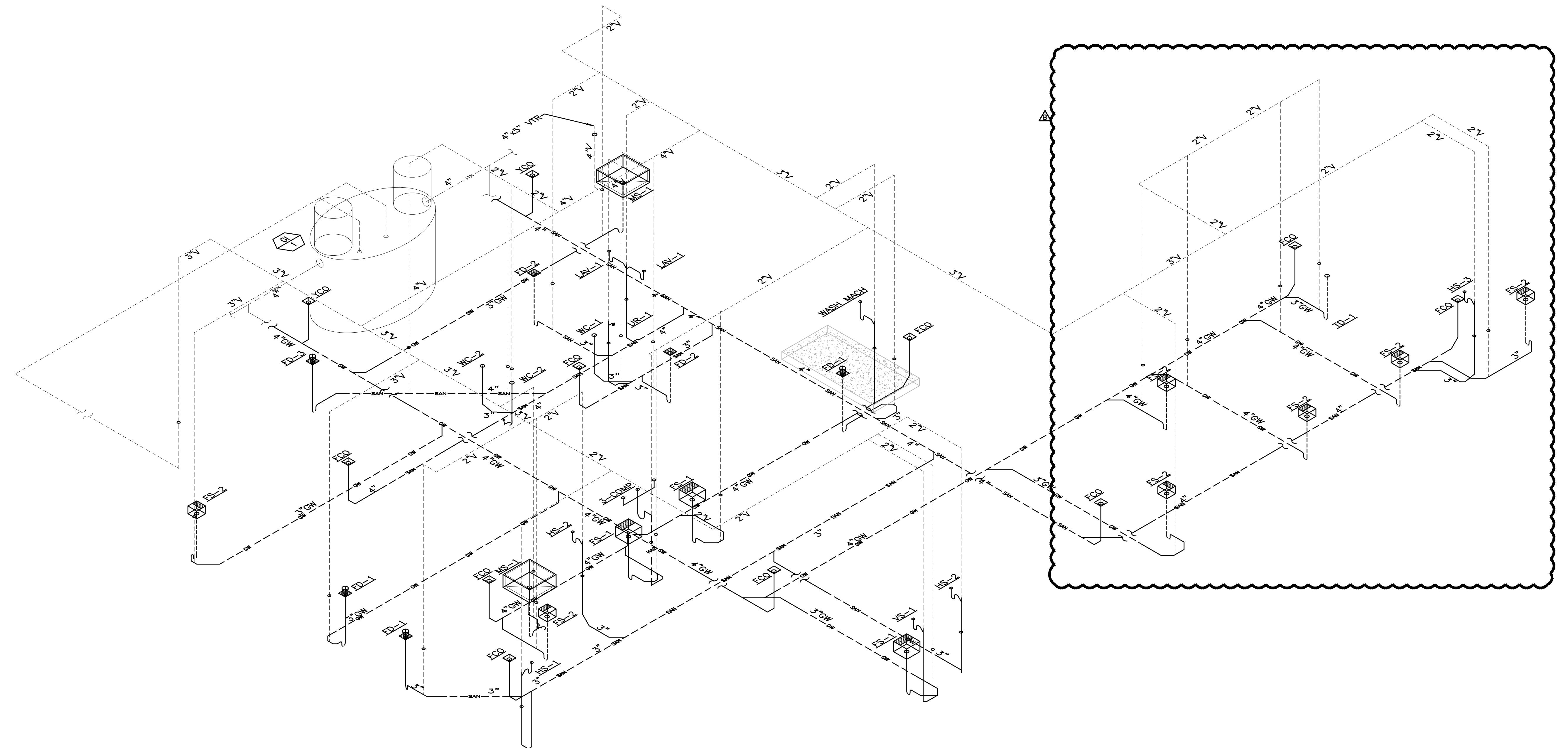
TAG #	QTY	DESCRIPTION	GAS TYPE	GAS BTU	GAS SIZE	HW	CW	MISC PLBG	HGT AFF	DRAIN	REQUIREMENTS & REMARKS
010.10P1	1	CO2 DRIVEN KETCHUP DISPENSERS	-	-	-	-	-	3/8" CO2	SEE RMKS	-	DN CHASE FROM BULK CO2 IF NO CHASE RUN IN 2"COND TO JB -BSI TO CONN CO2 LINE PER LOCAL CODES
020.01P3	2	AUTOMATED BEVERAGE SYSTEM 2.0	-	-	-	-	-	6" PVC CONDUIT	SEE RMKS	-	ABOVE CEILING FROM SODA SYSTEM - TERMINATE AT CHASE
021.01P1	1	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
021.09P1	1	HOT WATER DISPENSER	-	-	-	-	1/4"	-	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	DN CHASE FROM SODA SYSTEM - IF NO CHASE RUN IN 2"COND TO JB -BSI TO CONN CW LINE PER LOCAL CODES
024.01P1	1	ORANGE JUICE DISPENSER	-	-	-	-	1/2"	FLTR	-	SEE RMKS	DN CHASE FROM SODA TOWER CW LINE W/ RECIRC/CHILLED INSULATED BUNDLE-BSI CONN CWLINE LOCAL CODES PERMITTING
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
028.15P3	1	NOT USED	-	-	-	-	-	SODA BUNDLE	SEE RMKS	3/4" IND	DN CHASE FROM SODA SYSTEM - BSI TO MAKE FINAL CONNECTIONS 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	-	-	-	-	3/8"	-	SEE RMKS	-	FLEX LINE OVERHEAD FROM SODA SYSTEM - BSI TO MAKE FINAL CONN PER LOCAL CODES
032.02P2	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM	-	-	-	-	-	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	-	-	-	-	-	1/4"	-	-	-
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
038.00P1	1	CLEAN IN PLACE PANEL	-	-	-	1/2"	FLTR	6'-0"	-	-	FOR CLEANING BULK COKE TANKS. INSTALL HEIGHT TO BOTTOM OF UNIT

PLUMBING SCHEDULE

TITLE	2019 STANDARD BUILDING - BB20	STD ISSUE DATE	2019-11	DRAWN BY	M.J.W	REVIEWED BY	WLW	DESCRIPTION
DESCRIPTION	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI	DATE ISSUED	01-23-20	PREPARED BY:	McDonald's USA, LLC	PREPARED BY:	emmanuelson-podas consulting engineers	These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in construction with the issued date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.
ITEM	4597F10-WOOD/WOOD	PERMIT SET	01/23/20	PERMIT SET	Emmanuelson-Podas, Inc. Edina, MN 55439 (612) 930-0050 www.eppnc.com	PERMIT SET	12/03/20	PERMIT SET
SITE ID	015-0071	PERMIT SET	01/13/20	PERMIT SET	Emmanuelson-Podas, Inc. Edina, MN 55439 (612) 930-0050 www.eppnc.com	PERMIT SET	REV DATE	REV DATE
SHEET NO.	P1.6	OVERHEAD ROUGH-IN	12/03/20	DESCRIPTION	BY			



SHEET NO.	TITLE	DRAWN BY	PREPARED FOR:	BY
015-0071.00.0	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	M.J.W STD ISSUE DATE 2019-11	© 2020 McDonald's USA, LLC McDonald's USA, LLC	emmanuelson-podas Consulting Engineers
	DESCRIPTION WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH	REVIEWED BY WLW		Emmanuelson-Podas, Inc. Edina, MN 55439 (612) 930-0050 www.epinc.com
	SITE ID 015-0071	DATE ISSUED 01-23-20		01/13/20 PERMIT SET 01/13/20 USD PROGRESS SET REVIEW
	SITE ADDRESS 605 SOUTH 7TH STREET, KANSAS CITY, KS	REV DATE		01/13/20 REV DATE
				DESCRIPTION BY

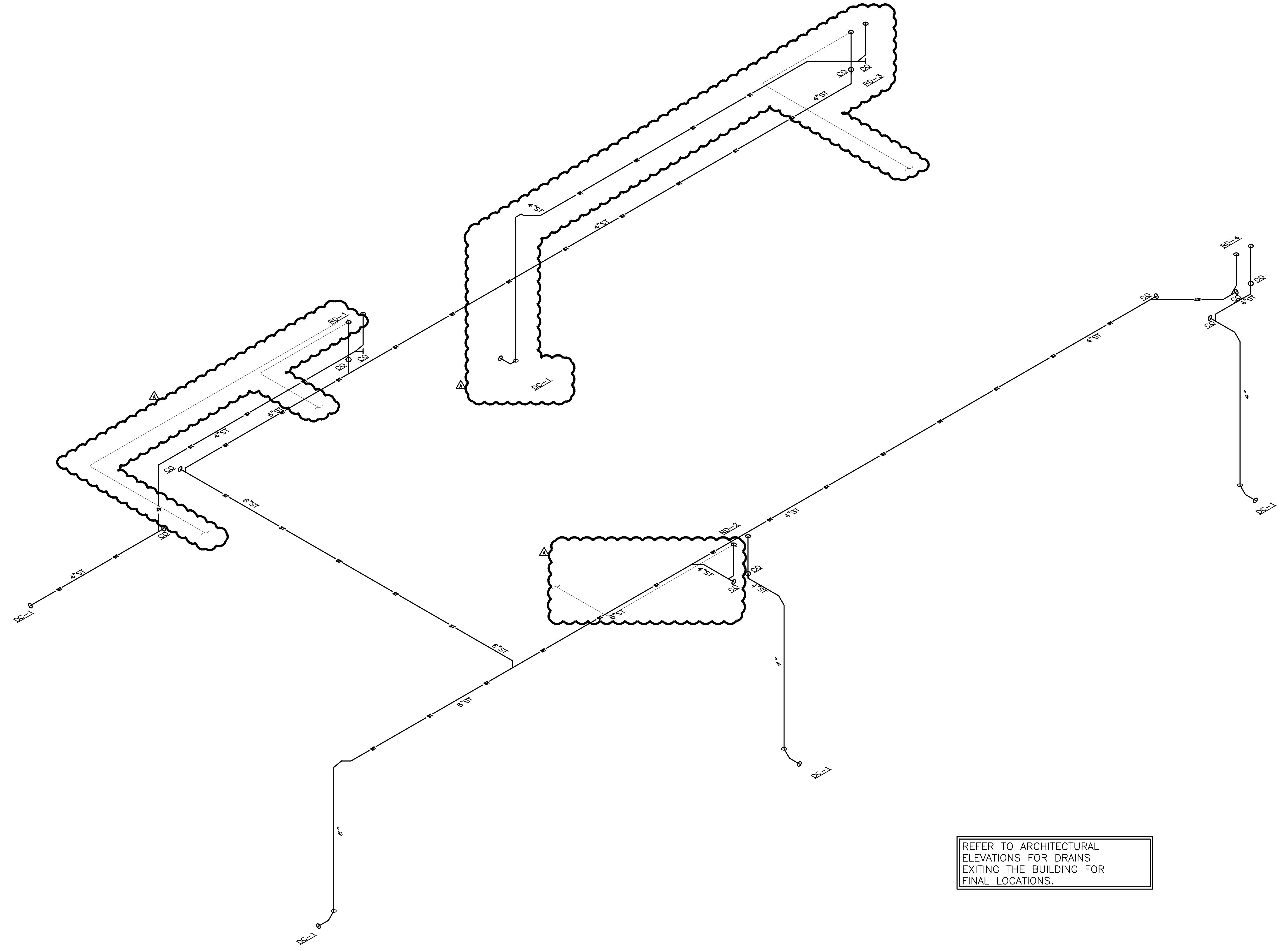


SHEET NO.	TITLE	DRAWN BY	PREPARED BY:	REVIEWED BY	DATE ISSUED	DESCRIPTION	REV. DATE
015-0071.00.B	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	M.J.W 2019-11	© 2020 McDonald's USA, LLC McDonald's USA, LLC	W.L.W 12/03/20	12/03/20	These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on any other site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.	
	DESCRIPTION						
	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH						
	SITE ID	SITE ADDRESS					
015-0071	605 SOUTH 7TH STREET, KANSAS CITY, KS						
	R#19175						

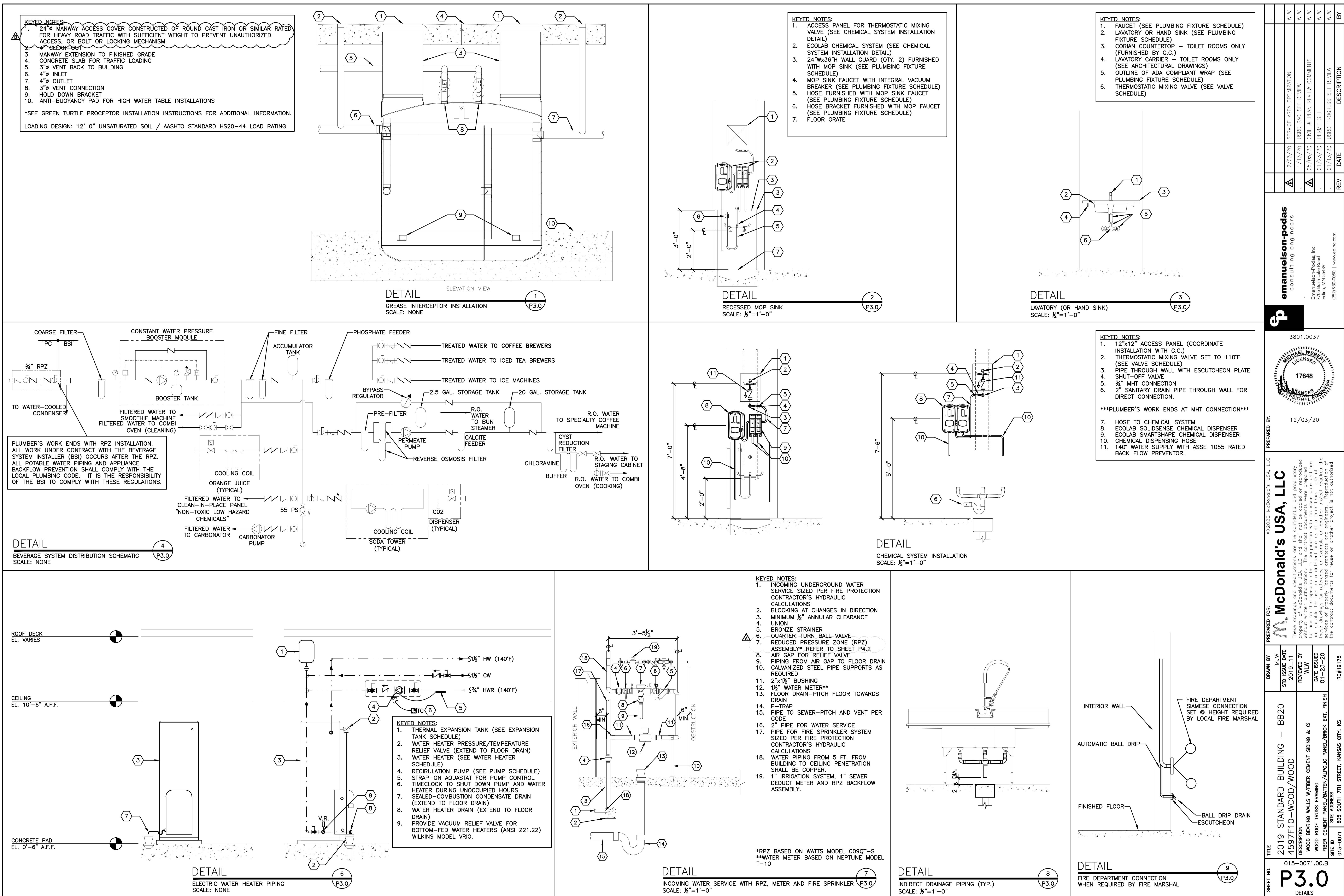
△	12/03/20	SERVICE AREA OPTIMIZATION
△	11/13/20	USRD SAO SET REVIEW
△	05/05/20	CIVIL & PLAN REVIEW COMMENTS
△	01/23/20	PERMIT SET
△	01/13/20	PROGRESS SET REVIEW
REV	DATE	DESCRIPTION



© 2020 Emmanuelson-Podas, Inc.
605 South 7th Street, Kansas City, MO 64105
(913) 930-0050 | www.epinc.com



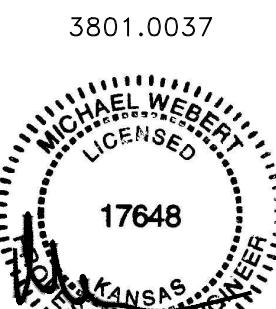
SHEET NO.	TITLE	DRAWN BY	PREPARED BY:	REVIEWED BY	DATE ISSUED	DESCRIPTION	REV. DATE	DESCRIPTION	BY
015-0071.00.A	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	M.J.W STD ISSUE DATE 2019-11	© 2020 McDonald's USA, LLC McDonald's USA, LLC	W.L.W	05/05/20	These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in conjunction with the issuance date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.	01/13/20	CIVIL & PLAN REVIEW COMMENTS PERMIT SET PROGRESS SET REVIEW	emmanuelson-podas consulting engineers Emmanuelson-Podas, Inc. 105 N. Main Street Edwards, IN 46528 (925) 930-0050 www.epinc.com
					01/23/20				
					01/23/20				
					01/13/20				
					05/05/20				



GENERAL PLUMBING NOTES		Grease Interceptor Sizing (MPC) DFU INTERCEPTOR VOLUME (GAL) 8 500 21 750 35 1000 90 1250 172 1500 216 2000 REQUIRED SIZE SIZE INSTALLED 1250 1500	LEGEND		ABBREVIATIONS																		
GENERAL:			— — — — —	COLD WATER PIPING	ACM	AREA CONSTRUCTION MANAGER																	
1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.			— — — — —	TEMPERED WATER PIPING (110°F)	AVB	ATMOSPHERIC VACUUM BREAKER																	
2. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.			— — — — —	HOT WATER PIPING (140°F)	BSI	BEVERAGE SYSTEM INSTALLER																	
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.				RECIRCULATED HOT WATER PIPING	CO	CLEAN-OUT																	
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				OVERHEAD LINES (BY P.C.)	DC	DOWNSPOUT COVER																	
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.				— SAN — — — UNDERGROUND SANITARY PIPING	DFU	DRAINAGE FIXTURE UNIT(S)																	
6. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.				— GW — — — UNDERGROUND GREASE WASTE PIPING	EC	ELECTRICAL CONTRACTOR																	
7. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.				— — — — — VENT PIPING	FAC	FIRE ALARM CONTRACTOR																	
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.			— ST — — — ABOVE GROUND STORM PIPING	FCO	FLOOR CLEAN-OUT																		
9. ALL PIPE SLEEVES SHALL BE PROPERLY SEALED AND INSULATED TO PREVENT HEAT LOSS AND SEEPAGE.		— — ST — — — UNDERGROUND STORM PIPING	FD	FLOOR DRAIN																			
10. ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.		⊕	HOSE BIBB	FPC	FIRE PROTECTION CONTRACTOR																		
11. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.		Z → OR Z ←	CHECK VALVE	FS	FLOOR SINK																		
SANITARY AND VENT SYSTEMS:		⊕	BALL VALVE	GC	GENERAL CONTRACTOR																		
1. THE BUILDING SANITARY PIPE SHALL BE LOCATED A MINIMUM OF 5 FT. FROM THE INCOMING WATER SERVICE, WHERE A 5 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.		⊗	THERMOSTATIC MIXING VALVE	GI	GREASE INTERCEPTOR																		
2. ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR PROTECTO 401 LINED CAST-IRON WHERE REQUIRED BY CODE.		□	FLOOR DRAIN	GPF	GALLONS PER FLUSH																		
3. ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH OF $\frac{1}{4}$ " PER FOOT, OR IF THE (AHU) ALLOWS AS FOLLOWS:		□	CLEAN-OUT (FLOOR OR YARD)	GPM	GALLONS PER MINUTE																		
<table border="1"> <thead> <tr> <th>PIPE SIZE</th> <th>MIN. SLOPE</th> </tr> </thead> <tbody> <tr> <td>2$\frac{1}{2}$" OR LESS</td> <td>$\frac{1}{8}$" PER FT.</td> </tr> <tr> <td>3" TO 6"</td> <td>$\frac{1}{6}$" PER FT.</td> </tr> <tr> <td>8" OR LARGER</td> <td>$\frac{1}{16}$" PER FT.</td> </tr> </tbody> </table>		PIPE SIZE	MIN. SLOPE	2 $\frac{1}{2}$ " OR LESS	$\frac{1}{8}$ " PER FT.	3" TO 6"	$\frac{1}{6}$ " PER FT.	8" OR LARGER	$\frac{1}{16}$ " PER FT.	□	FLOOR SINK	GW	GREASE WASTE										
PIPE SIZE	MIN. SLOPE																						
2 $\frac{1}{2}$ " OR LESS	$\frac{1}{8}$ " PER FT.																						
3" TO 6"	$\frac{1}{6}$ " PER FT.																						
8" OR LARGER	$\frac{1}{16}$ " PER FT.																						
4. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.		○	PRESSURE GUAGE	HS	HAND SINK																		
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.		□	LOW PRESSURE SWITCH	I.P.S.	IRON PIPE SIZE (ALSO NPS)																		
6. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.		□	HIGH PRESSURE SWITCH	KEI	KITCHEN EQUIPMENT INSTALLER																		
7. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.		⊗	SOLENOID VALVE	KES	KITCHEN EQUIPMENT SUPPLIER																		
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.		⊗	THREE-WAY VALVE	LAV	LAVATORY																		
9. ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS:		○	PRESSURE REGULATOR	MC	MECHANICAL CONTRACTOR																		
<table border="1"> <thead> <tr> <th>MATERIAL</th> <th>MAX. HORIZ. SPACING</th> <th>MAX. VERT. SPACING</th> </tr> </thead> <tbody> <tr> <td>COPPER PIPE</td> <td>12 FT.</td> <td>10 FT.</td> </tr> <tr> <td>COPPER TUBING $\leq \frac{1}{2}$"</td> <td>6 FT.</td> <td>10 FT.</td> </tr> <tr> <td>COPPER TUBING $> \frac{1}{2}$"</td> <td>10 FT.</td> <td>10 FT.</td> </tr> <tr> <td>CPVC $\leq 1"$</td> <td>3 FT.</td> <td>10 FT.</td> </tr> <tr> <td>CPVC $\geq 1\frac{1}{2}"$</td> <td>4 FT.</td> <td>10 FT.</td> </tr> </tbody> </table>		MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING	COPPER PIPE	12 FT.	10 FT.	COPPER TUBING $\leq \frac{1}{2}$ "	6 FT.	10 FT.	COPPER TUBING $> \frac{1}{2}$ "	10 FT.	10 FT.	CPVC $\leq 1"$	3 FT.	10 FT.	CPVC $\geq 1\frac{1}{2}"$	4 FT.	10 FT.	○	DUAL CHECK VALVE OR RPZ	MHT	MALE HOSE THREADS
MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING																					
COPPER PIPE	12 FT.	10 FT.																					
COPPER TUBING $\leq \frac{1}{2}$ "	6 FT.	10 FT.																					
COPPER TUBING $> \frac{1}{2}$ "	10 FT.	10 FT.																					
CPVC $\leq 1"$	3 FT.	10 FT.																					
CPVC $\geq 1\frac{1}{2}"$	4 FT.	10 FT.																					
10. ALL PLUMBING FIXTURES SHALL BE VENTED AND THE MAXIMUM DISTANCE FROM THE FIXTURE TRAP TO THE VENT SHALL BE AS FOLLOWS:		○	DUAL CHECK VALVE WITH ATMOSPHERIC VENT	MS	MOP SINK																		
<table border="1"> <thead> <tr> <th>TRAP SIZE</th> <th>SLOPE</th> <th>DISTANCE</th> </tr> </thead> <tbody> <tr> <td>1$\frac{1}{2}$"</td> <td>$\frac{1}{8}$" PER FT.</td> <td>2'-6"</td> </tr> <tr> <td>2$\frac{1}{2}$"</td> <td>$\frac{1}{8}$" PER FT.</td> <td>3'-6"</td> </tr> <tr> <td>3"</td> <td>$\frac{1}{8}$" PER FT.</td> <td>5'-0"</td> </tr> <tr> <td>4" & LARGER</td> <td>$\frac{1}{8}$" PER FT.</td> <td>6'-0"</td> </tr> <tr> <td></td> <td></td> <td>10'-0"</td> </tr> </tbody> </table>		TRAP SIZE	SLOPE	DISTANCE	1 $\frac{1}{2}$ "	$\frac{1}{8}$ " PER FT.	2'-6"	2 $\frac{1}{2}$ "	$\frac{1}{8}$ " PER FT.	3'-6"	3"	$\frac{1}{8}$ " PER FT.	5'-0"	4" & LARGER	$\frac{1}{8}$ " PER FT.	6'-0"			10'-0"	○	STRAINER	NPS	NATIONAL PIPE THREAD STANDARD
TRAP SIZE	SLOPE	DISTANCE																					
1 $\frac{1}{2}$ "	$\frac{1}{8}$ " PER FT.	2'-6"																					
2 $\frac{1}{2}$ "	$\frac{1}{8}$ " PER FT.	3'-6"																					
3"	$\frac{1}{8}$ " PER FT.	5'-0"																					
4" & LARGER	$\frac{1}{8}$ " PER FT.	6'-0"																					
		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.		○	RELIEF VENT	NPT	NATIONAL PIPE THREAD TAPERED																		
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 3 FT. ABOVE THE INTAKE.		○	FULL-PORT BALL VALVE	O/O	OWNER/OPERATOR																		
13. ALL SIDE WALL VENT TERMINATIONS SHALL BE PROTECTED TO PREVENT BIRDS OR RODENTS FROM ENTERING OR BLOCKING THE VENT OPENING.		○	PUMP	OH	OVERHEAD																		
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 PROSTET TRAP GUARD. TRAP GUARD NOT ALLOWED IN KITCHEN AREA		○	BACK FLOW PREVENTER	P	PUMP																		
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.		○	PLUMBING CONTRACTOR	PC	PLUMBING CONTRACTOR																		
16. THE PVC PLASTIC PIPING TO BE INSTALLED MUST COMPLY WITH ONE OF THE FOLLOWING ASTM STANDARDS: D2665, OR F891. THE INSTALLATION MUST COMPLY WITH ASTM STANDARD D2321		○	REFRIGERATION CONTRACTOR	RC	REFRIGERATION CONTRACTOR																		
17. ALL PLASTIC PIPE USED FOR DRAIN, WASTE, AND VENT SYSTEM (ABS, PVC) SHALL COMPLY WITH ASTM D2661 OR F268 (ABS) AND D2665, D2649 OR F891 (PVC). ABOVE GRADE HORIZONTAL RUNS OF PLASTIC WASTE AND VENT PIPE CAN NOT EXCEED 35 FEET IN TOTAL LENGTH, AND ABOVE GRADE VERTICAL STACKS CONSTRUCTED OF PLASTIC PIPE MAY EXCEED 35 FEET IN TOTAL HEIGHT ONLY IF AN APPROVED EXPANSION JOINT IS USED. SOLVENT WELD JOINTS IN PVC AND CPVC PIPE MUST INCLUDE USE OF PRIMER WHICH IS OF CONTRASTING COLOR TO THE PIPE AND CEMENT.		○	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER																		
18. CAST IRON PIPE USED FOR ABOVE GROUND WASTE SYSTEMS MUST MEET ANSI STANDARD A21.2, A21.6, A21.8, A40.5, OR ASTM STANDARD A-74.		○	SANITARY SEWER	SAN	SANITARY SEWER																		
		○	STORM SEWER	ST	STORM SEWER																		
		○	ANTI-SIPHON, SPILL RESISTANT VACUUM BREAKER	SVB	ANTI-SIPHON, SPILL RESISTANT VACUUM BREAKER																		
		○	TEST AND BALANCE CONTRACTOR	TAB	TEST AND BALANCE CONTRACTOR																		
		○	UNDERGROUND	UG	UNDERGROUND																		
		○	URINAL	UR	URINAL																		
		○	VENT	V	VENT																		
		○	WATER CLOSET	WC	WATER CLOSET																		
		○	WALL CLEAN-OUT	WCO	WALL CLEAN-OUT																		
		○	WATER SUPPLY FIXTURE UNIT(S)	WSFU	WATER SUPPLY FIXTURE UNIT(S)																		
		○	YARD CLEAN-OUT	YCO	YARD CLEAN-OUT																		

emmanuelson-podas
consulting engineers

Emmanuelson-Podas, Inc.
Edison, NJ 07003 | (973) 939-0050 | www.eppinc.com



01/23/20

© 2020 McDonald's USA, LLC
McDonald's USA, LLC

These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC, and shall not be copied or reproduced, in whole or in part, or disclosed to third parties, without the express written consent of McDonald's USA, LLC, and shall not be used for any purpose other than the specific project for which issued, nor shall they be used for any other time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of these drawings or any portion thereof for use on another project is not authorized.

DRAWN BY: MJW
STD ISSUE DATE: 2019-11
REVIEWED BY: WLW
DATE ISSUED: 01-23-20
TITLE: 2019 STANDARD BUILDING - BB20
DESCRIPTION: 4597F10-WOOD/WOOD
WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI
WOOD ROOF TRUSS FRAMING
FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH
SITE ADDRESS: 605 SOUTH 11H STREET, KANSAS CITY, KS
SITE ID: 015-0071
RD#19175

P4.0
GENERAL NOTES
SHEET NO. 015-0071.00.0

COORDINATION SCHEDULE					
GENERAL REQUIREMENTS	FURNISH	INSTALL	FINAL CONNECTION	NOTES	
MECHANICAL PERMIT	MC			1-3	
HOT WORK (WELDING) PERMIT (IF APPLICABLE)	KES			1-3	
REFRIGERATION PERMIT (IF APPLICABLE)	MC			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	MC	MC		1-5, 17, 22	
ROOF CURBS	MC	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	MC	MC		1-3, 17, 22	
ROOF CURBS	MC	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					
THERMOSTATS & SUBBASES	MC	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	PC	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 BACKSHELL 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	MC	MC		1-3, 6, 17, 22	
ROOF CURBS	MC	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	
GAS PIPING (IF APPLICABLE)	KES	MC		1-3, 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	PC	PC		1-3, 23, 27	
FAUCET	PC	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 SPRINKLER 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	MC	EC	EC	1-3, 22, 27	

PUMP SCHEDULE					
P-1	MANUFACTURER	MODEL	HP	V	Ø Hz
	GRUNDFOS	UP 15-18 B7	1/25	120	1 60
					1-3
ACCESORIES:					
1. SEE ELECTRICAL DRAWINGS FOR TIMECLOCK WIRING					
2. SEE DETAIL 6 ON DRAWING P3.0					

BACKFLOW PREVENTER SCHEDULE					
TYPE	MFR.	MODEL	ASSE	LISTING	LOCATION
AG FURN. WITH CHEM. SYS.	ZURN	1055B	CHEMICAL SYSTEM	DIN. RM.-MOP SINK	
AG FURN. WITH CHEM. SYS.	ZURN	1055B	CHEMICAL SYSTEM	KITCHEN-MOP SINK	
AVB FURN. WITH CHEM. SYS.	ZURN	1001	CHEMICAL SYSTEM	SUPP. RM.-3-COMP	
AVB FURN. WITH FAUCET	ZURN	1012	MOP SINK FAUCET	SEE DRAWINGS	
VB FURN. WITH HB	ZURN	1012	WALL HYDRANT	SEE DRAWINGS	
DCV FURN. WITH HB	ZURN	1052	YARD HYDRANT	TRASH CORRAL	
DCV FURN. WITH HB	ZURN	1052	ROOF HYDRANT	ROOF	
DCV WATTS SD-3	ZURN	1022	SODA TOWERS AND SPEC. COFFEE		
RPZ WILKINS 375XL-SXL-AG	ZURN	1013	INCOMING WATER SUPPORT ROOM		
RPZ WILKINS 375XL-AG	ZURN	1013	FILTRATION SYSTEM SUPPORT ROOM		
PVB WATTS WA800M4QT-100	ZURN	1020	IRRIGATION SYSTEM	IRRIGATION SYSTEM	

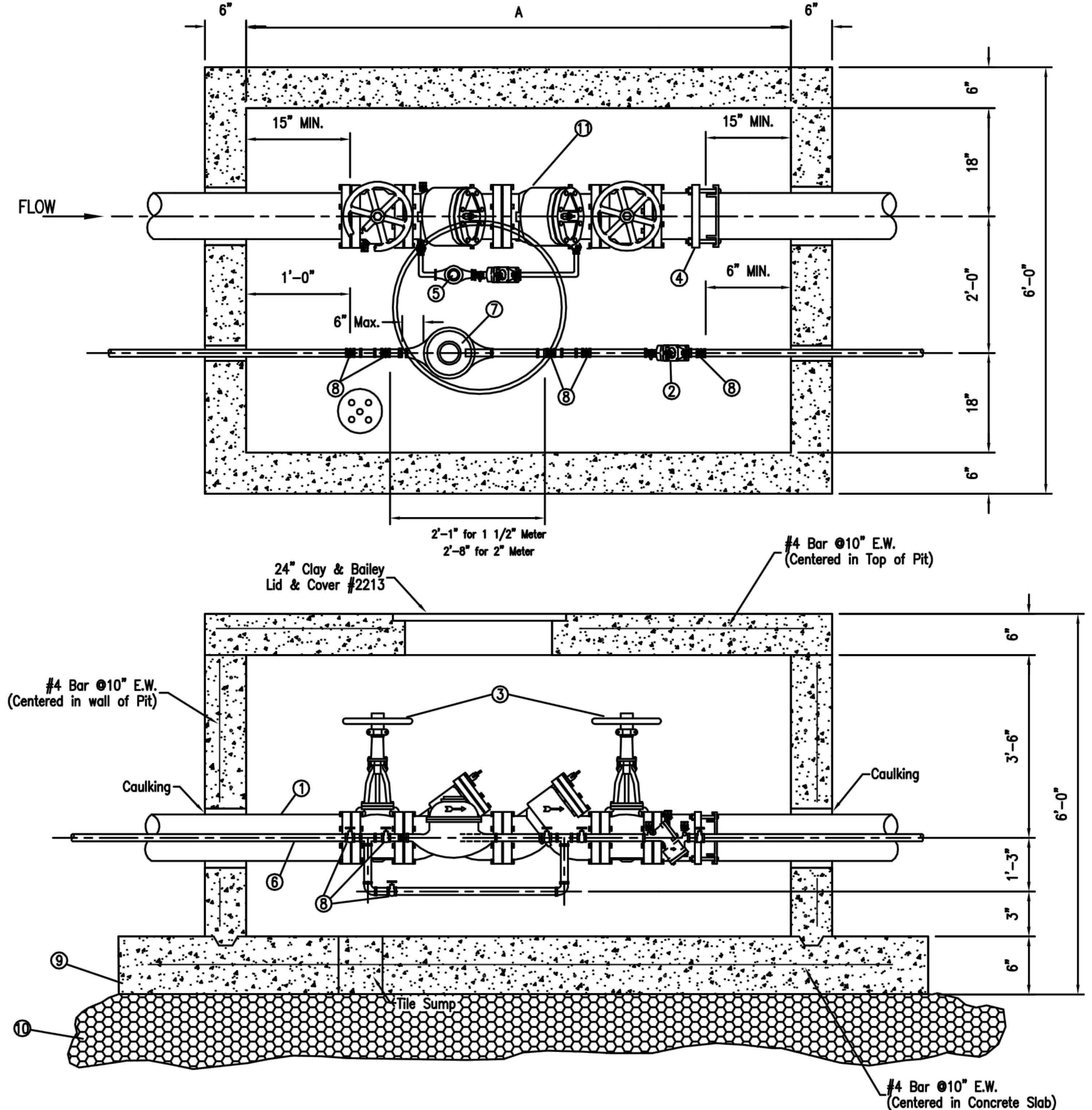
WATER HEATER SCHEDULE					
TAG	MANUFACTURER	MODEL	SIZE	HEATING	RECOV.
WH-1	BRADFORD-WHITE	M-11-120A-54-3	119	54	223
	A.O. SMITH	DRE-120-54	119	54	221
ACCESORIES:					
1. NSF INSTALLATION KIT					

VALVE SCHEDULE					
MANUFACTURER	MODEL	TEMP. SETTING	LISTING	SERVING	
WATTS	LFMMV	110°F	ASSE 1017,1069,1070	CHEMICAL SYSTEM MIXING	
WATTS	LFMMV	104°F	ASSE 1017,1069,1070	LAVS & HAND SINKS MIXING	
WATTS	LFU5G-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	LFBV-PEX	—	—	COMBI OVEN RO WATER SHUT OFF	

INTERCEPTOR SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	MODEL	ACCESORIES	NOTES
GI-1	EXTERIOR GREASE INTERCEPTOR	ZURN	PRECAST CONCRETE 1500 GALLONS PROCTOR MODEL GMC1300-UPC	4" INLET, 4" OUTLET	1-4 1-2,4
NOTES:					
1. SEE GREASE INTERCEPTOR NOTES ON DRAWING P4.0					
2. GREASE INTERCEPTOR IS SIZED FOR CITY SEWER APPLICATIONS ONLY. DO NOT USE FOR SEPTIC田					
3. INTERIOR OF PRECAST CONCRETE SHALL BE COATED WITH TWO (2) LAYERS OF NOVOLAC EPOXY					
4. FOR ZURN PROCTER ORDERING, CONTACT HUGHES SUPPLY, DIRECT LINE: (407) 244-7918, OR E-MAIL: MCDCOORD@HAJOCACOM					

PLUMBING FIXTURE SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	MODEL	WATER USE	ACCESSORIES/COMMENTS
F-1	FAUCET FOR LAV-1 & LAV-2	ZURN</			

DO NOT SCALE DRAWING
WORK TO DIMENSIONS



LEGEND

- ① Pipe Spool (Flanged Ductile Iron Pipe).
- ② Approved double check valve assembly with 4 test cocks (Fitted with brass plugs).
- ③ O.S.&Y Resilient seated gate valve.
- ④ Rockwell 913 Steel flanged coupling adapter or approved equal.
- ⑤ 5/8" box water meter, Badger Model #25 with read in cubic feet to meet B.P.U. specifications.
- ⑥ Brass pipe or rigid copper tubing (sweat).
- ⑦ Meter installed by B.P.U.
- ⑧ Wheel gate valve or resilient seated ball valve.
- ⑨ 10'-6"x 7'-0"x 6" Reinforced concrete slab.
- ⑩ 12" of 1/2" or 3/4" crushed rock.
- ⑪ Approved double check detector check valve assembly with 4 test cocks(Fitted with brass plugs)

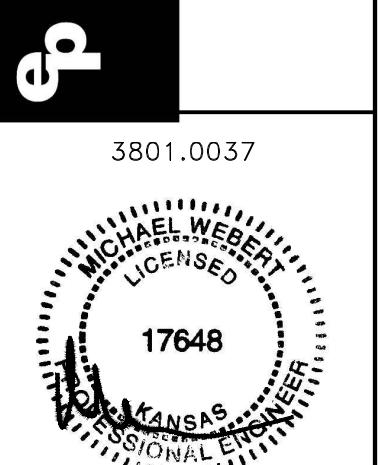
NOTES

- 1 All backflow prevention assemblies shall be installed horizontally or as approved by BPU.
- 2 Dimension to be determined by unit installed.
- 3 AB-3, CA-5 or gravel will not be allowed as back fill material around water service.

BOARD OF PUBLIC UTILITIES
ENGINEERING & TECHNICAL SERVICES
KANSAS CITY, KANSAS
1 1/2"-2" Meter w/ 3", 4", & 6"
Double Check Detector Check
Valve Assembly

DRAWN	A.A.G.	DATE	4/1/92	ENGR. APPV.	R.W.
APPV.		DATE		SHEET	9 OF 37
REV.		DATE		DWG. NO.	
TRACED		DATE			
SCALE	NONE	W.O.			BF-009a

SHEET NO.	TITLE	DESCRIPTION	REV. DATE	DETAILS
015-0071.00.A	2019 STANDARD BUILDING - BB20	WOOD BEARING WALLS W/ FIBER CEMENT SIDING & CI	05/05/20	CIVIL & PLAN REVIEW COMMENTS
015-0071.00.A	4597F10-WOOD/WOOD	WOOD ROOF TRUSS FRAMING	01/23/20	PERMIT SET
015-0071.00.A		FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH	01/13/20	PROGRESS SET REVIEW
015-0071.00.A		SITE ADDRESS		
015-0071.00.A		REV. DATE		
015-0071.00.A		DETAILS		



3801.0037
05/05/20

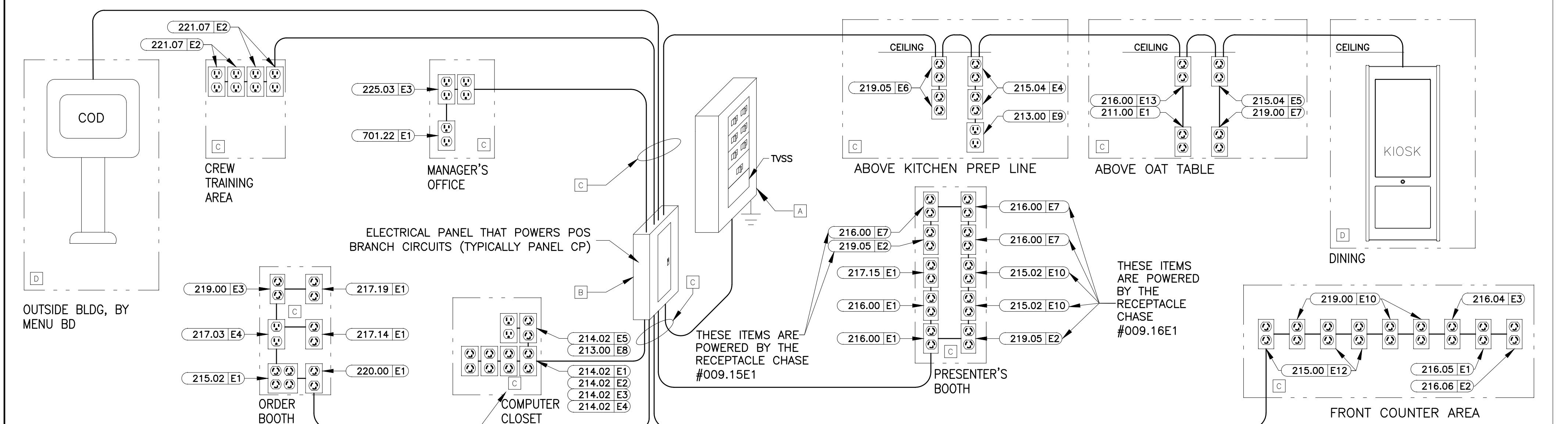
© 2020 McDonald's USA, LLC

PREPARED FOR:
McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC, and shall not be copied or reproduced for use on this specific site in conjunction with its issuance date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.

SHEET NO.	TITLE	DESCRIPTION	REV. DATE	DETAILS
015-0071.00.A	2019 STANDARD BUILDING - BB20	WOOD BEARING WALLS W/ FIBER CEMENT SIDING & CI	05/05/20	CIVIL & PLAN REVIEW COMMENTS
015-0071.00.A	4597F10-WOOD/WOOD	WOOD ROOF TRUSS FRAMING	01/23/20	PERMIT SET
015-0071.00.A		FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXT. FINISH	01/13/20	PROGRESS SET REVIEW
015-0071.00.A		SITE ADDRESS		
015-0071.00.A		REV. DATE		
015-0071.00.A		DETAILS		

P4.2
DETAILS

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 2 BOOTH RESTAURANT. VERIFY ALL POS ROUGH-INS AND MOUNTING HEIGHTS WITH THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION DRAWINGS.

LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION

GENERAL/MATERIALS

- THE CC 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 $\frac{1}{32}$ "
 - 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.
- 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

- 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,
 - NETPOF TELEPHONE PANEL LOCATION.
- 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.
- 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.
- 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.

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: _____

THE EC SHALL COMPLETE THE BELOW CHECKLIST TO VERIFY COMPLIANCE WITH MCDONALD'S SPECIFICATIONS.

IF YOU HAVE ANY QUESTIONS REGARDING THE PLANS, PLEASE CALL THE DESIGNER.
DESIGNER: Wendy Wenborg
PHONE: 952-540-4047
EMAIL: wwenborg@epinc.com

START HERE

A VISUALLY INSPECT THE MAIN ELECTRICAL PANEL (MDP)

YES NO N/A

- IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
- DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
- DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
- DOES THE ISOLATED GROUND CONDUCTOR (GREEN W/YELLOW STRIPE) TERMINATE ON THE EQUIPMENT GROUND BAR?
- IS THERE AN APPROPRIATE ELECTRICAL CONNECTION (BOND) BETWEEN THE NEUTRAL BAR AND THE EQUIPMENT GROUND BAR?
- DOES THE GROUNDING SYSTEM COMPLY WITH MCDONALD'S "BUILDING ELECTRICAL GROUNDING DETAIL"?
- IS A SURGE PROTECTOR INSTALLED THAT COMPLIES WITH MCDONALD'S "TVSS INSTALLATION GUIDE" OR DETAIL?
- ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
- ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?

B VISUALLY INSPECT THE PANEL "CP" THAT POWERS POS

YES NO N/A

- IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
- IS AN ISOLATED GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY INSULATED FROM THE PANEL?
- DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
- DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
- DO ALL ISOLATED GROUND CONDUCTORS (GREEN W/YELLOW STRIPE) TERMINATE ONLY TO THE ISOLATED GROUND BAR?
- ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
- ARE ALL POS & COD CIRCUIT BREAKERS ON THE SAME PANEL?
- ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
- DO ALL POS & COD CIRCUIT BREAKERS HAVE A LOCKING MECHANISM ON THEIR HANDLES TO PREVENT THEM FROM BEING SHUT OFF BY MISTAKE?
- 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

- IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
- DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
- DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
- ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
- ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
- DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL AND ONE EQUIPMENT GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED? (SEE BUILDING ELECTRICAL GROUNDING DETAIL)

REWORK ELECTRICAL SYSTEM TO BRING INTO COMPLIANCE WITH MCDONALD'S SPECIFICATIONS

C VISUALLY INSPECT THE POS BRANCH CIRCUITS

YES NO N/A

- ARE THE POS BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
- IF THE POS BRANCH CIRCUIT IS ROUTED ABOVE GRADE, IS IT IN A METALLIC CONDUIT?
- 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).
- DO ALL POS BRANCH CIRCUITS TERMINATE AT EITHER AN IG4700, IG4710, IG5261, IG5262 RECEPTACLES OR ANY COMBINATION OF THESE?
- ARE ALL ELECTRICAL TERMINATIONS TO IG RECEPTACLES MADE WITH SOLID #12 AWG WIRE CAPTURED AROUND THE SCREW BARREL AND SUITABLY TIGHTENED?
- ARE ALL BRANCH CIRCUIT CONNECTIONS PROPERLY TIGHTENED?
- ARE THE CORRECT AMOUNT AND TYPE OF IG RECEPTACLES PROVIDED AS SHOWN IN THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION?
- DO ALL POS RECEPTACLES HAVE ORANGE "COMPUTER ONLY" COVERPLATES?
- DO ALL POS BRANCH CIRCUITS COMPLY WITH THE "POS & COD ISOLATED GND/DEDICATED CIRCUIT" DETAIL?

D VISUALLY INSPECT THE POS BRANCH CIRCUIT FOR THE COD

YES NO N/A

- ARE THE COD BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
- DOES EACH COD 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).
- IS THE COD POWERED FROM THE SAME PANEL AS THE POS?
- DOES THE BREAKER FOR THE COD HAVE A LOCKING MECHANISM ON ITS HANDLE THAT WILL PREVENT IT FROM BEING SHUT OFF?
- DO THE COD BRANCH CIRCUIT(S) COMPLY WITH THE "POS & COD ISOLATED GND/DEDICATED CIRCUIT" DETAIL?
- IF THE COD HAS AN OPTICAL ISOLATOR, IS A STRAIGHT BLADE ISOLATED GROUND RECEPTACLE ON AN ISOLATE GROUND/DEDICATED CIRCUIT PROVIDED FOR IT?

TITLE	DESCRIPTION	REV. DATE	BY
2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI WOOD ROOF TRUSS FRAMING FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXTER. FINISH	01/23/20	W.W. W.W. W.W.

emmanuelson-podas
consulting engineers

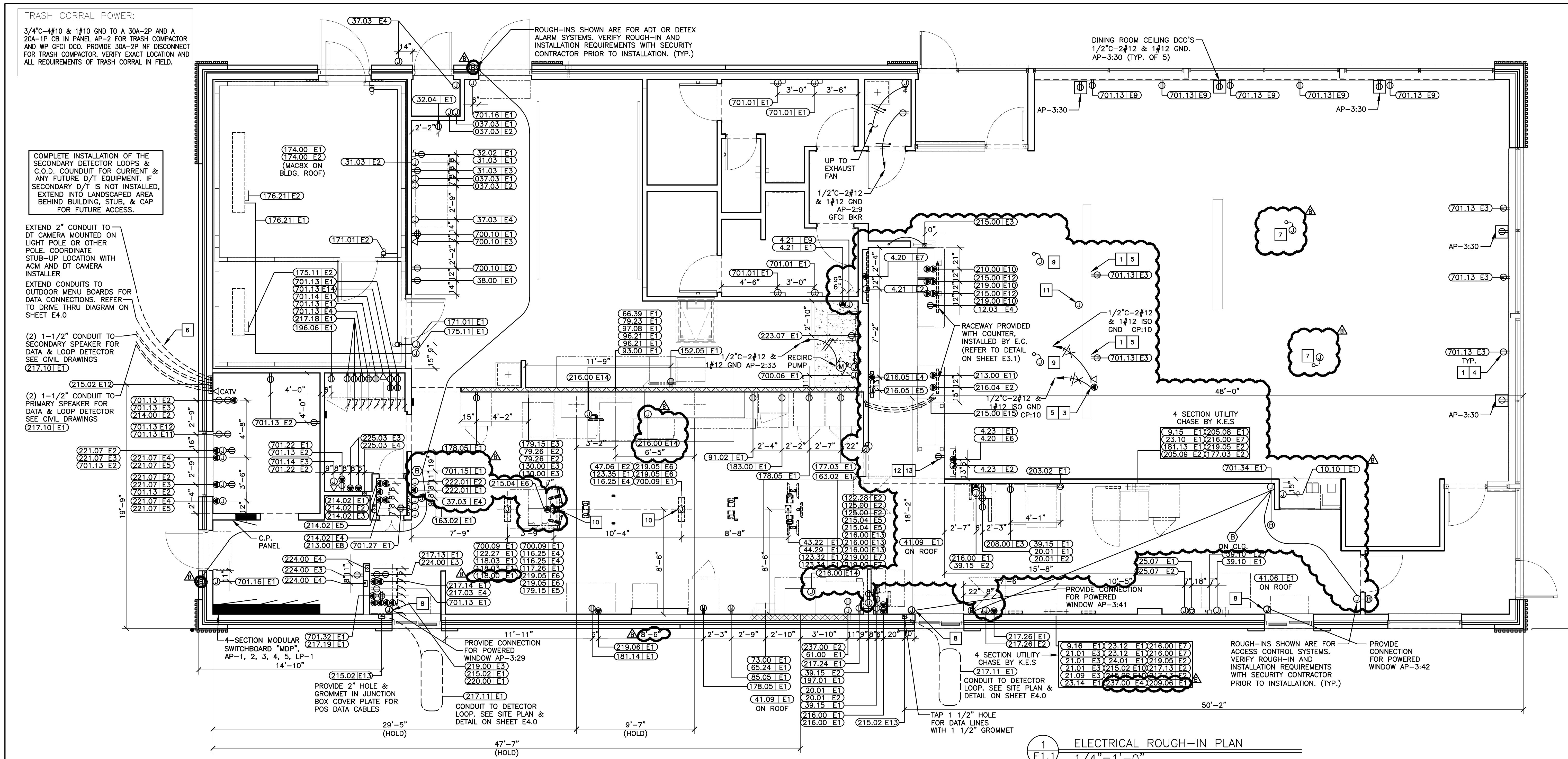
Emmanuelson-Podas, Inc.
Edina, MN 55439
(952) 930-0050 | www.epinc.com

3801.0037

17648
MICHAEL WEBER
LICENSED
01/23/20

© 2020 McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC, and shall not be copied or reproduced for use on another project or site, or in whole or in part, without the express written consent of McDonald's USA, LLC, and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of a licensed architect or engineer. Reproduction of the contract documents for reuse on another project is not authorized.

TITLE	DESCRIPTION	REV. DATE	BY
015-0071.00.0 E1.0 POS RISER DIAGRAM	SHEET NO.	015-0071.00.0 E1.0 POS RISER DIAGRAM	



SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\$	SINGLE POLE SWITCH, 3W=THREE WAY SWITCH, K=KEYED SWITCHED, VS=VACANCY SENSOR	(B)	BUZZER
\$T	MANUAL SWITCH (T= THERMAL OVERLOADS)	(B)	BUTTON FOR BUZZER
□	TRANSFORMER	(○)	PULLBOX
○	JB WITH DUPLEX CONVENIENCE OUTLET (FLUSH WITH CEILING)	■	PANELBOARD
○	JB WITH SINGLE CONVENIENCE OUTLET	○	CIRCUIT BREAKER
○	JB WITH DUPLEX CONVENIENCE OUTLET	A	AMPERES
○	JB WITH TWO DUPLEX CONVENIENCE OUTLETS	ACM	AREA CONSTRUCTION MANAGER
○	JB WITH SPECIAL PURPOSE OUTLET	AFF	ABOVE FINISHED FLOOR
○	JB WITH ISOLATED GROUND OUTLET (IG) = IG4710, (IG) = IG5261, (IG) = IG4700A, (IG) = IG5262	C	CONDUIT
▲	INTERCOM STATION W/ 3/4" C- TO MAIN STATION	CCT	CIRCUIT
●	TELEPHONE JACK	EC	ELECTRICAL CONTRACTOR
○	JUNCTION BOX - WALL OR CEILING MOUNTED	GC	GENERAL CONTRACTOR
□	DISCONNECT SWITCH	GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER
○	STUB UP THRU ROOF	GND	GROUND
○	THERMOSTAT SENSOR W/ 1/2" C- UP TO CEILING SPACE	IG	ISOLATED GROUND
○	MOTOR CONNECTION	JB	JUNCTION BOX
—	CONDUIT RUN CONCEALED IN CEILING OR WALLS	KES	KITCHEN EQUIPMENT SUPPLIER
—	CONDUIT RUN IN FLOOR SLAB	MLO	MAIN LUGS ONLY
—X	HOT (SHORT), NEUTRAL (LONG), EQUIP GRD (LONG WITH DOT), & X' DENOTES ISOLATED GRD	WP	WEATHERPROOF
○○	J-BOX WITH FINAL EQUIPMENT CONNECTION	CO	CARBON MONOXIDE SENSOR
○○	CEILING MOUNTED OCCUPANCY SENSOR		

ADT ROUGH-IN NOTES

1. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH ADT PRIOR TO INSTALLATION TEL. 800-417-8238
2. EC SHALL PROVIDE A 2 GANG 3 25/32" X 3 25/32" X 3 1/2" D JUNCTION BOX AT DOOR FOR INSTALLATION OF DOOR ALARM UNIT. STUB 1/2" C ABOVE CEILING FROM JUNCTION BOX. PROVIDE 1/2" C FROM J-BOX TO DOOR MAGNETIC SWITCH LOCATION.
3. EC SHALL PROVIDE 4" X 4" JUNCTION BOX ABOVE CEILING FOR INSTALLATION OF LOW VOLTAGE TRANSFORMER. VERIFY EXACT LOCATION WITH ADT PRIOR TO INSTALLATION. PROVIDE 1/2" C-2#12 TO LOCKOUT TYPE CB IN PANEL LP-1.

GENERAL NOTES

1. SEE SHEET E3.0 FOR PANEL & CIRCUIT BREAKER ASSIGNMENT, VOLT/PH, FLA, BREAKER SIZE, COND/WIRE, RECEPTACLE TYPE, HEIGHT ABOVE FINISHED FLOOR, REQUIREMENTS & REMARKS FOR ALL ELECTRICAL EQUIPMENT.
2. SEE LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION ON SHEET E1.0 FOR POS, DATA, AND SOUND SYSTEM REQUIREMENTS.
3. GC/EC SHALL COORDINATE LOCATION AND ALL REQUIREMENTS OF CT& METER CABINET WITH LOCAL UTILITY COMPANY. CT & METER CABINET SHALL NOT BE INSTALLED ON D/T SIDE OF BUILDING. GC SHALL PAINT TO MATCH BUILDING COLOR.

KEY NOTES

- 1 TAMPER RESISTANT GFCI DUPLEX RECEPTACLE IN PUBLIC AREAS. EC SHALL PROVIDE HUBBELL GFTRST* (*": AL=ALMOND, BK=BLACK, BR=BROWN, GR=GRAY, IV=IVORY, LA=LIGHT ALMOND, RD=RED, WH=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)
- 3 SEE NOTE FLAT PANEL TELEVISION NOTE ON SHEET E3.1.

KEY NOTES

- 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 EC 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. EC SHALL IDENTIFY EXACT LOCATIONS IN FIELD AND WITH DECOR DRAWINGS. PROVIDE ALL NECESSARY MATERIALS AND SUPPORT FOR A COMPLETE AND FULL 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.
- 9 PROVIDE POWER WITHIN CEILING 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 ONE (1) DOUBLE SIDED OR TWO (2) SINGLE SIDED KIOSKS.
- 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 J-BOX ABOVE CEILING NEAR KIOSK FOR FUTURE DIGITAL MERCHANDISER. EXTEND CIRCUIT TO THIS LOCATION FROM DIGITAL MERCHANDISER NEAR SERVICE AREA. EXTEND J-HOOKS FROM SERVICE AREA FOR FUTURE DATA CABLES.

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

13 PROVIDE A 5-20R RECEPTACLE FOR DELIVERY POD DOWNLIGHT, F12DP. INSTALL RECEPTACLE AT 7'-6" AFF. PROVIDE 2#12, 1#12GRD IN 1/2" C TO A 20A CIRCUIT FROM THE LP PANEL. REFER TO LIGHTING PLAN FOR CIRCUIT NUMBER.

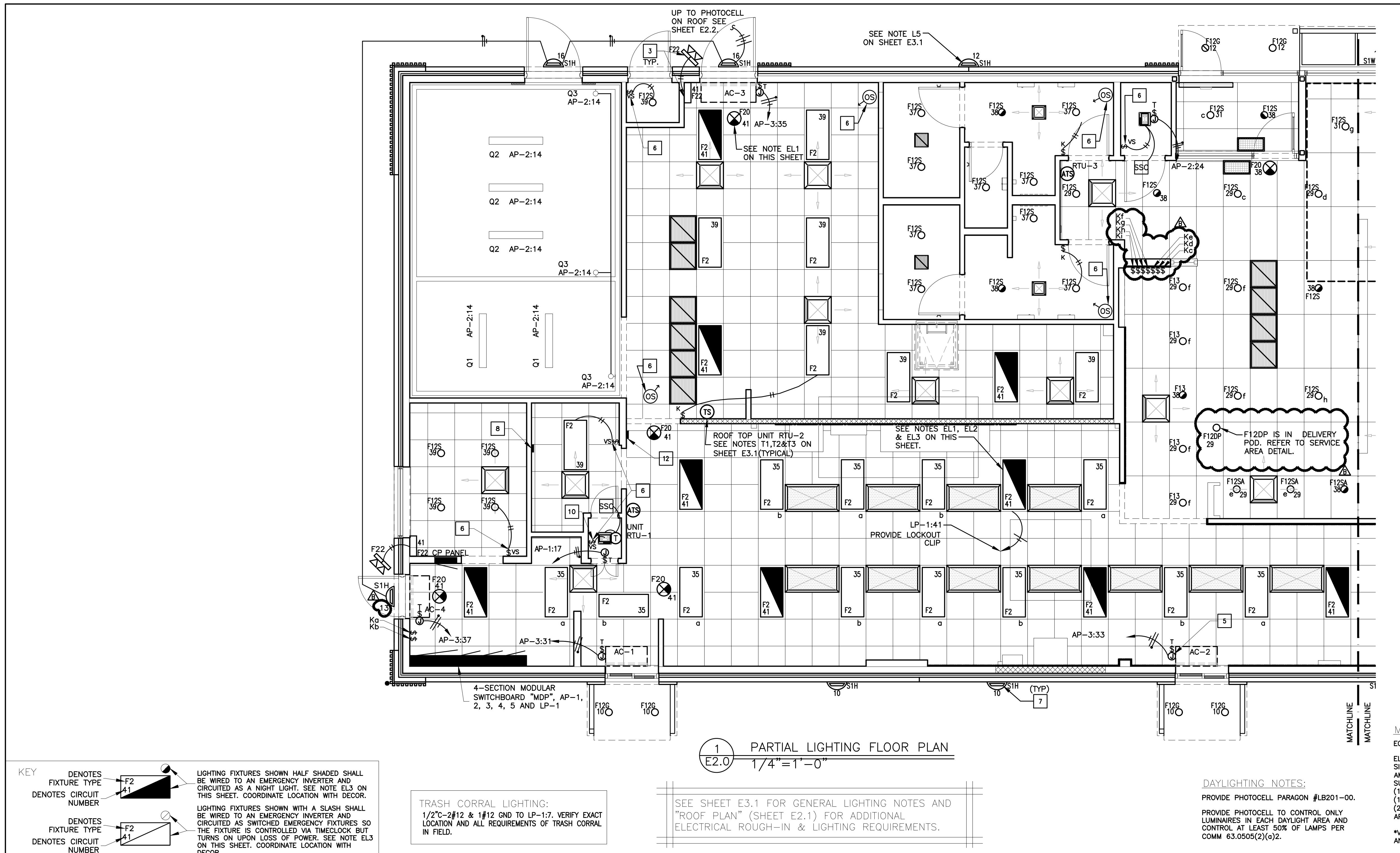
SHEET NO.	TITLE	DRAWN BY	REVIEWED BY
015-0071.00.B	2019 STANDARD BUILDING - BB20	MRL	WLW
	4597F10-WOOD/WOOD		
	WOOD BEARING WALLS W/FIBER CEMENT SIDING & CI		
	WOOD ROOF TRUSS FRAMING		
	FIBER CEMENT PANEL/BATTEN/ALUMINUM/BRICK EXTER. FINISH		
	SITE ADDRESS		
015-0071	605 SOUTH 7TH STREET, KANSAS CITY, KS		
	REV 1975		
		BY DATE	
		12/03/20	
		11/13/20	USRD SAO SET REVIEW
		05/05/20	CIVIL & PLAN REVIEW COMMENTS
		01/23/20	PERMIT SET
		01/13/20	PROGRESS SET REVIEW
			REV DATE

emanuelson-podas
consulting engineers
Emmanuelson-Podas, Inc.
Edmond, OK 73034
(405) 930-0050 | www.eppc.com

McDonald's USA, LLC
3801.0037
Matthew W. Mulls
LIC #17667
12/03/20

PREPARED BY:
© 2020 McDonald's USA, LLC

These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without the express written consent of McDonald's USA, LLC. These drawings and specifications are issued in confidence and are not suitable for use on this specific site or on a later time. Use of these drawings for reference or example on another project requires the services of a properly licensed architect or engineer. Reproduction of the contract documents for reuse on another project is not authorized.



LIGHTING FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS		BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER	Q1	REFRIGERATION LIGHTING	INTERNAL PRISMATIC LENS VAPOR TIGHT	81.1W	LED	-	SURFACE FREEZER/COOLER	METALUX 4VT2-LD4-8-DR-UNV-L835-CD1-WL-U
				WATTS	TYPE											
F2	□	2' X 4' GRID TROFFER	PRISMATIC ACRYLIC	44W	LED	-	RECESSED	SECURITY LIGHTING: # LCAT24-35HLC-EDU-WP-CK	Q2	REFRIGERATION LIGHTING	INTERNAL PRISMATIC LENS VAPOR TIGHT	38W	LED	-	SURFACE FREEZER/COOLER	METALUX 4VT2-LD4-4-DR-UNV-L835-CD1-WL-U
F12DP	○	4" LED DOWN LIGHT - GOLD TRIM - DELIVERY POD	9W	LED	-	RECESSED	SECURITY LIGHTING # LB4A-6LDDM-30K-9-GD/IBX4QL-120	Q3	REFRIGERATION LIGHTING	INTERNAL PRISMATIC LENS VAPOR TIGHT	1-100	A16	-	SURFACE TO WALL FREEZER AND COOLER	KASON REFRIGERATION LIGHTING: 1802000002, WITH WIRE GUARD.	
F12G	○	4" LED DOWN LIGHT - SHALLOW HOUSING	12W	LED	-	RECESSED	SECURITY LIGHTING # LB6LEDA10L-50K-9-GD/RMNIC5-QL	S1H	"DOWN ONLY" RADIAL WALL SCONCE - SILVER	TEMPERED GLASS	(1)-14W	LED	-	SURFACE TO WALL	SECURITY LIGHTING: #RWSC-36L-5K-D0-U-PS	
F12S	○	6" LED DOWN LIGHT	-	12W	LED	-	RECESSED	SECURITY LIGHTING # LB6LEDA10L-30K-9-SA/DBXOL-DM COORDINATE DOWN LIGHT TO BE USED IN DINING WITH PHOTOMETRIC	S1W	"DOWN ONLY" RADIAL WALL SCONCE - WHITE	TEMPERED GLASS	(1)-14W	LED	-	SURFACE TO WALL	SECURITY LIGHTING: #RWSC-36L-5K-D0-U-WH
F12SA	○	6" LED ADJUSTABLE DOWN LIGHT	-	12W	LED	-	RECESSED	SECURITY LIGHTING # LB6LEDA10L-30K-9-SA/DBXOL-DM COORDINATE DOWN LIGHT TO BE USED IN DINING WITH PHOTOMETRIC								
F13	○	4" LED DOWN LIGHT	-	25W	LED	-	RECESSED	SECURITY LIGHTING # LF4SL-4LFSL20L-30K-SP-SL-DL-B24								
F14	○	ALPHABET PENDANT	-	(1)-8W	LED	-	PENDANT	SECURITY LIGHTING # MS-P-A-BM-108LED-CBC (TO BE VERIFIED WITH DECOR DRAWINGS)								
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	○	EMER BATTERY & 2 REMOTE HEADS	-	-	LED	-	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D-02L-0/EV0DB								
F23	○	2 HEADED EMERG LIGHT & 2 REMOTE HEAD IF REQ'D	-	-	LED	-	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D/EV0DB								

LIGHTING SCHEDULE NOTES:

LS1. 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.

LS2. ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

LS3. 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.

LS4. VERIFY DOWNLIGHT TO BE USED IN DINING WITH PHOTOMETRIC

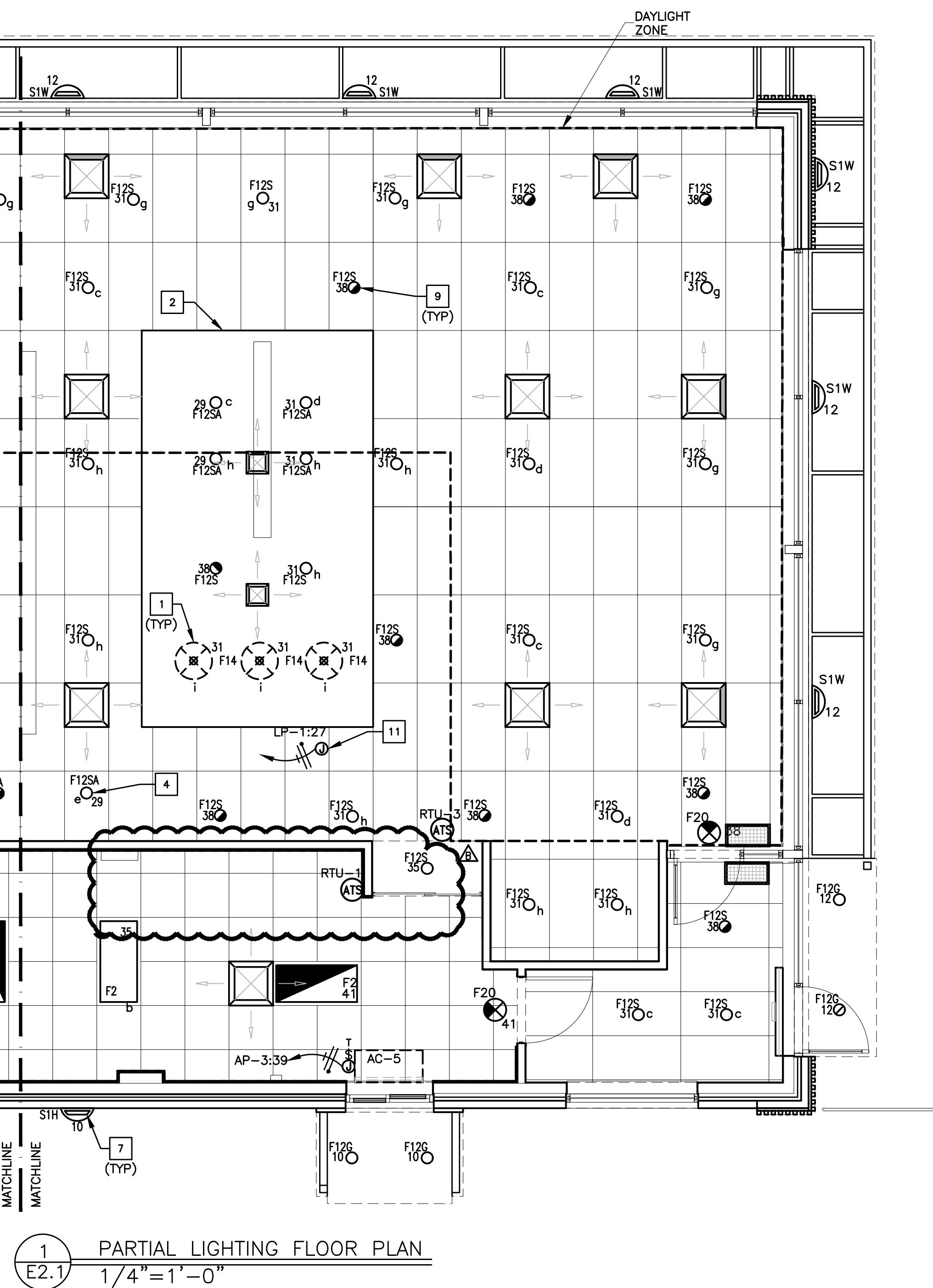
KEY NOTES	
1	CENTER PENDANT LIGHTS OVER TABLES (TYPICAL)
2	ALL SOFFIT LOCATIONS, LIGHTING, & SUPPLY GRILLS SHALL BE COORDINATED WITH DECOR COMPANY DRAWING PRIOR TO INSTALLATION.
3	EC SHALL INSTALL AND CONFIGURE REMOTE EMERGENCY LIGHTING AT ALL EGGS EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGGS. INSTALL WP J-BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EXTERIOR EMERGENCY EGGS (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#12RD. HEATED VERSION TO USE 1" C, 2#6, 1#10 RD. (TYPICAL).
6	PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR OR VACANCY SENSOR SWITCH 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 DUAL-LITE LIGHTING INVERTER MODEL #LG125T FOR USE WITH TYPE F12S, F12SA & F120 FIXTURES SHOWN SHADED OR SLASHED. EC SHALL FIELD VERIFY EXACT QUANTITY AND LOCATION OF DEVICE PROVIDED IN INSTALLATION. EC SHALL VERIFY QUANTITY OF FIXTURES THAT CAN BE CONNECTED TO INVERTER 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.

TITLE	2019 STANDARD BUILDING - BB20	STD ISSUE DATE	2019-11	REVIEWED BY	WLW
DESCRIPTION	4597F10-WOOD/WOOD	DATE ISSUED	01-23-20	PREPARED BY	McDonald's USA, LLC
SITE ID	015-0071.00.B	ADDRESS	605 SOUTH 7TH STREET, KANSAS CITY, KS	BY	Matthew W. Fuller, P.E., S.E.C. #17667
SHEET NO.	E2.0	DATE	12/03/20	PREPARED BY	McDonald's USA, LLC
PREPARED FOR:	McDonald's USA, LLC	PREPARED BY:	McDonald's USA, LLC		
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without the express written consent of McDonald's USA, LLC. These drawings and specifications are in conjunction with the issued contract and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.					

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
701.13E9	5	DCO - GENERAL PURPOSE	120/1	1.5	20A	1/2C-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	1/2C-2#12	LP-1:16	-	8'-0"	CONNECT TRANSFORMER TO POWER & ROUTE LOW VOLTAGE WIRES OVERHEAD TO DOOR BUTTON
701.16E1	2	DOOR ALARM	120/1	.5	20A	1/2C-2#12	LP-1:16	JB	SEE RMKS	JUNCTION BOX ABOVE CEILING, PROVIDE LOCKOUT ON CIRCUIT BREAKER HANDLE.
701.22E1	1	WAYPORT - WIRELESS INTERNET SERVER	120/1 ISOLATED	1.5	20A	1/2C-2#12IG	CP:2	IG5262	8'-0"	-
701.22E2	1	WAYPORT - WIRELESS INTERNET SERVER	DATA CABLE	-	-	-	-	JB	8'-0"	EXTEND 1" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLE
701.27E1	1	DCO-SATELLITE MUSIC SYSTEM	120/1	1.0	20A	1/2C-2#12	AP-3:6	(2) 5-20R	3'-0"	PROVIDE DOUBLE DUPLEX WALL PLATE
701.32E1	1	REMOTE ORDER TAKER BATTERY PACK	120/1	2.0	20A	1/2C-2#12	AP-1:9	(2) 5-20R	4'-6"	PROVIDE DOUBLE DUPLEX WALL PLATE. FIELD VERIFY HEIGHT AND LOCATION WITH ACM
701.34E1	1	ACCESS CONTROL PANEL	120/1	2.0	20A	1/2C-2#12	LP-1:16	JB	8'-0"	ROUTE LOW VOLTAGE WIRES TO DOOR BUTTON, HORN AND DOOR STRIKE AS REQUIRED

ELECTRICAL SCHEDULE

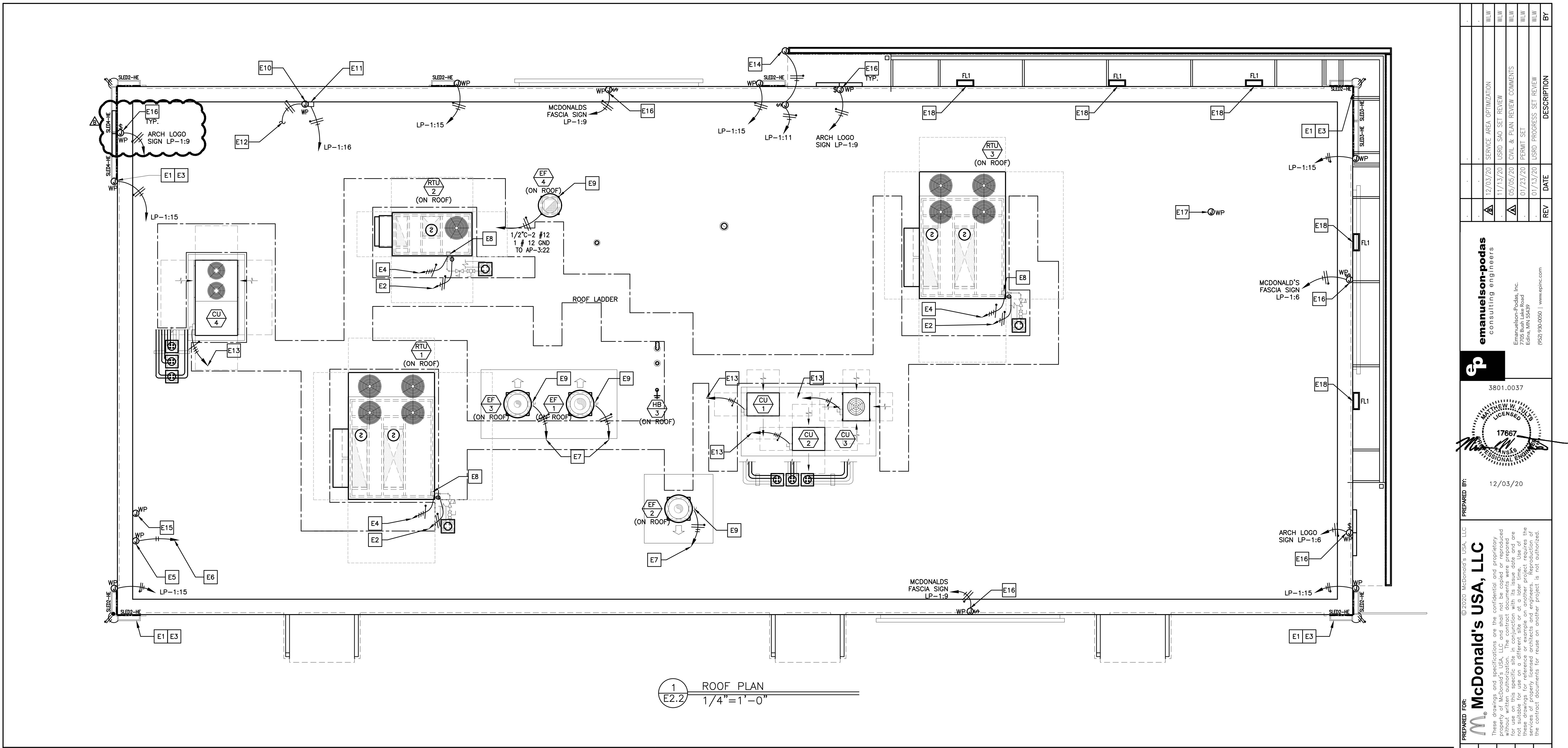


SHEET NO.	TITLE	DRAWN BY		PREPARED BY:		REVIEWED BY:		APPROVED BY:	
015-0071.00.B	2019 STANDARD BUILDING - BB20 4597F10-WOOD/WOOD	MRL		McDonald's USA, LLC		W.L.W.		W.L.W.	
		STD ISSUE DATE 2019-11		STD ISSUE DATE 2019-11		REVISED BY W.L.W.		SERVICE AREA OPTIMIZATION 11/13/20 USD, SA SET REVIEW	
								05/05/20 CIVIL & PLAN REVIEW COMMENTS	
								01/23/20 PERMIT SET	
								01/13/20 USD, PROGRESS SET REVIEW	
								REV. DATE	
emanuelson-podas Consulting Engineers									
Emmanuelson-Podas, Inc. Attn: Al Edens, P.E., IN 55459 (952) 930-0050 www.epinc.com									
3801.0037									
17667 12/03/20									

© 2020 McDonald's USA, LLC
These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced for use on this specific site in conjunction with the issued date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.

REFER TO E2.0 FOR NOTES. SEE SHEET E3.1 FOR GENERAL LIGHTING NOTES AND "ROOF PLAN" (SHEET E2.2) FOR ADDITIONAL ELECTRICAL ROUGH-IN & LIGHTING REQUIREMENTS.

E2.1
LIGHTING PLAN



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-3,CCT.#34.(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 E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX ON INSIDE FACE OF PARAPET FOR PHOTOCELL INSTALLATION. MOUNT JB 6" BELOW TOP OF PARAPET. PHOTOCELL FURNISHED AND INSTALLED BY EC. MOUNT FACING NORTH.
- E11 PHOTOCELL ON ROOF (SEE SHEET E2.0 FOR CONTINUATION AT DOOR LOCATIONS).
- E12 TO SOFFIT LIGHT FIXTURES NEAR DOORS. SEE SHEET E2.0 FOR CONTINUATION. TYPICAL FOR CCT LP-1:16.
- E13 REMOTE CONDENSING UNITS. SEE SHEET E3.0 FOR WIRING AND CIRCUITRY REQUIREMENTS.
- E14 CANOPY LIGHT. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH MANUFACTURER. REMOTE POWER SUPPLIES ABOVE ACCESSIBLE CEILING WITHIN VESTIBULE. VERIFY EXACT INFEEF REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E3.1. (TYPICAL)
- E15 E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX WITH 3/4" 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.
- E16 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)
- E17 E.C. SHALL PROVIDE A JUNCTION BOX FOR ROOF-TOP FLAG POLE LIGHTING. VERIFY LOCATION(S) WITH MCD PROJECT MANAGER PRIOR TO INSTALLATION.
- E18 FLOOD LIGHT MOUNTED ABOVE CANOPY. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH ARCHITECTURAL ELEVATIONS. VERIFY EXACT INFEEF REQUIREMENTS IN THE FIELD. SEE FLOOD LIGHT DETAIL ON SHEET E3.1. (TYPICAL)

DRAWING NOTES

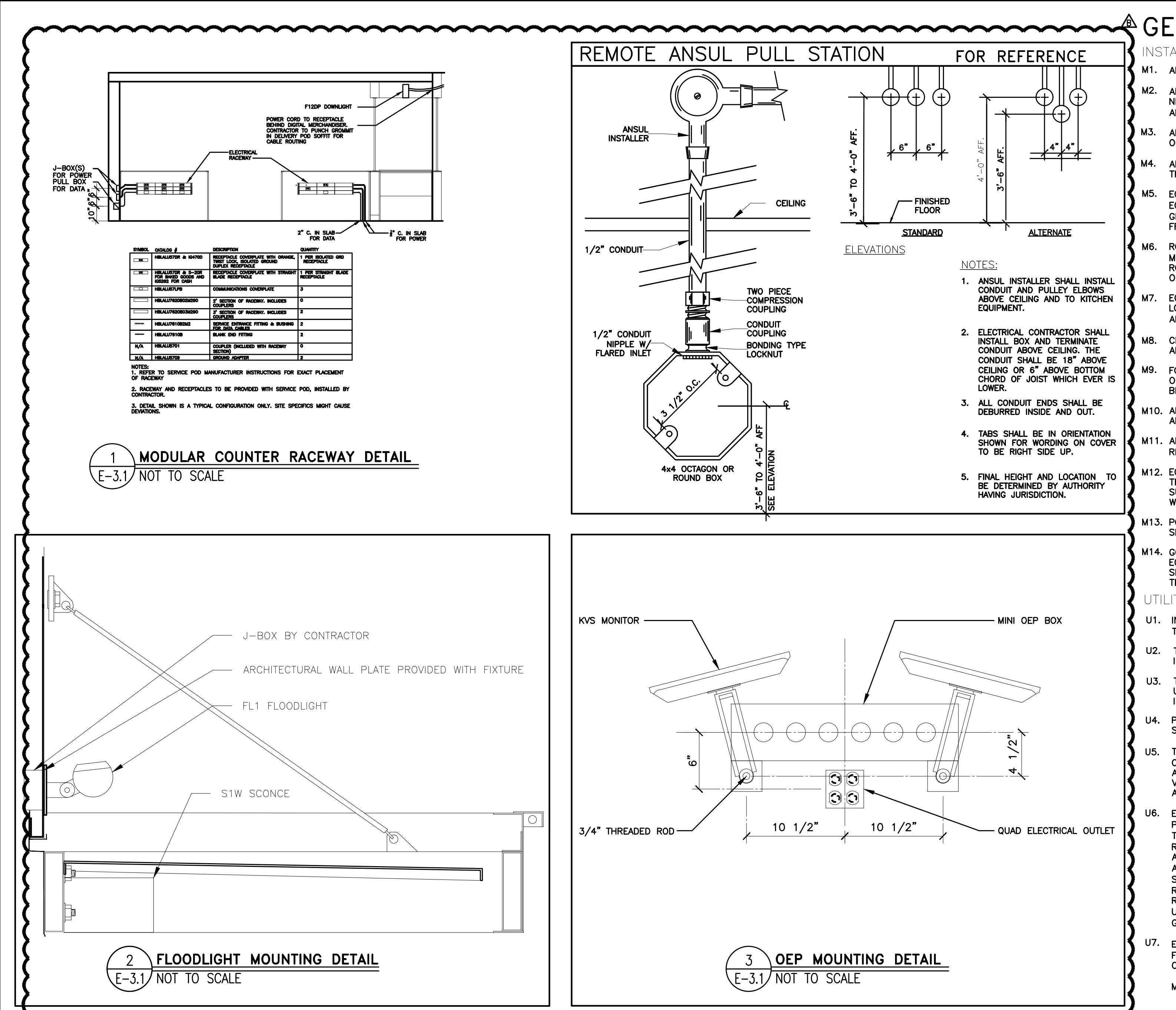
1. SEE DRAWING M-4.0 FOR GENERAL MECHANICAL NOTES.
2. SEE DRAWINGS M-3.0 AND M-4.1 FOR MECHANICAL EQUIPMENT SCHEDULES AND DETAILS.
3. SEE DRAWING M-4.0 FOR MECHANICAL LEGEND.
4. SEE DRAWING K-2.1 FOR REMOTE CONDENSER AND MAC UNIT INFORMATION.
5. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

LED FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS WATTS PER Fixture	BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER
SLED3	■	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-30W PER Fixture	LED	-	SECURITY LIGHTING: SLED-HE-36-DO-U-I0-C16 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED2-HE	■	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-10W PER Fixture	LED	-	SECURITY LIGHTING: SLED-HE-24-DO-U-I0 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED3-HE	■	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-14W PER Fixture	LED	-	SECURITY LIGHTING: SLED-HE-36-DO-U-I0 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED4-HE	■	DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-19W PER Fixture	LED	-	SECURITY LIGHTING: SLED-HE-48-DO-U-I0 CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
FL1	■	UP ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-16W PER Fixture	LED	-	SECURITY LIGHTING: EL218-W-5-8L-5K-UV-I0-JW10

TITLE	2019 STANDARD BUILDING - BB20	DRAWN BY	MRL
DESCRIPTION	WOOD BEARING WALLS W/ FIBER CEMENT SIDING & CI	STD ISSUE DATE	2019-11
DESCRIPTION	WOOD ROOF TRUSS FRAMING	REVIEWED BY	WLW
DESCRIPTION	FIBER CEMENT PANEL/BATTEN/ALPOLIC PANEL/BRICK EXC. FINISH	DATE ISSUED	01-23-20
SITE ID	015-0071.00.B	SITE ADDRESS	605 SOUTH 7TH STREET, KANSAS CITY, KS
SHEET NO.	E2.2	REV #	1975

ELECTRICAL SCHEDULE														ELECTRICAL SCHEDULE																		
PB	Pullbox													VIF	Verify in Field																	
JB	Junction Box													EC	Electrical Contractor																	
TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS	TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS											
004.20E6	1	DIGITAL MERCHANTISER	120/1 ISOLATED	2.6	20A	1/2C-2#12G	CP:6	IG5262	6'-5"	-	197.01E	1	HAND WASH TIMER	120/1	0.1	20A	1/2C-2#12	AP-1:33	5-20R	4'-6"	-											
004.20E7	1	MENU BOARD - DIGITAL	120/1 ISOLATED	2.6 EACH	20A	1/2C-2#12G	CP:6	(2) IG5262	6'-2"	-	203.02E1	1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	208/3	35.0	45A	3/4C-3#6	AP-1:(18,20,22)	4x4x4 PB	1"-0"	RECEP #460R9 BY KES, IF CARPIGNANI K3 IS ORDERED USE A 30A BRKR & #10 CONDUCTORS - EC MAKES FINAL CONN											
004.21E1	1	MENU BOARD - DIGITAL - MEDIA PLAYER	120/1 ISOLATED	1.0 EACH	20A	1/2C-2#12G	CP:6	(2) IG5262	7"-9"	EC TO MOUNT OUTLETS HORIZONTALLY	205.08E1	1	BIC MACHINE	120/1	8.6	20A	1/2C-2#12	AP-2:29	BY KES	SEE RMKS	EC TO EXTEND DEDICATED CIRCUIT TO 5-20R RECEPTEACLE IN CHASE											
004.21E2	1	MENU BOARD - DIGITAL - MEDIA PLAYER	DATA CABLE	-	-	-	-	JB	9"-0"	JB W/ 2-1/2" C. TO TERMINATE ABOVE CEILING W/BUSHINGS, FOR DATA CABLES, SUPPLY W/GROMMETED OPENING IN COVER PLATE	205.09E2	1	FROZEN BEVERAGE DISPENSER	208/1	20.0	30A	1/2C-2#10	AP-4:(17,19)	SEE RMKS	SEE RMKS	RECEP L-6-30R IN CHASE BY KES, EC MAKES FINAL CONN											
004.21E3	1	MENU BOARD - DIGITAL - MEDIA PLAYER	DATA CABLE	-	-	-	-	JB	7"-9"	JB W/ 2-1/2" C. TO TERMINATE ABOVE CEILING W/BUSHINGS, FOR DATA CABLES, SUPPLY W/ GROMMETED OPENING IN COVER PLATE	209.06E1	1	McDELIVERY CENTER	120/1	8.0	20A	1/2C-2#12	AP-4:18	5-20R	2"-0"	FOR REFRIGERATED BASE AND COUNTERTOP UNIT											
004.23E1	1	DIGITAL MERCHANTISER - MEDIA PLAYER	120/1 ISOLATED	1.0	20A	1/2C-2#12G	CP:6	IG5262	6'-5"	USE SAME RECEPTEACLE AS 4.20E6	210.00E10	1	CASH RECYCLER	120/1	4.5	20A	1/2C-2#12G	CP:23	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTEACLE IN CHASE											
004.23E2	1	DIGITAL MERCHANTISER - MEDIA PLAYER	DATA CABLE	-	-	-	-	JB	6'-5"	JB W/ 1" C. TO FULL HEIGHT WALL AND TO ABOVE CEILING W/BUSHINGS, FOR DATA CABLES, SUPPLY W/GROMMETED OPENING IN COVER PLATE	213.00E11	1	TABLE LOCATOR SYSTEM	120/1	2.6	20A	1/2C-2#12G	CP:4	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT BELOW SLAB TO NEAREST FULL HEIGHT WALL, PROVIDE IG5262 RECEPTEACLE IN COUNTER-MOUNTED RACEWAY											
009.15E1	1	UTILITY CHASE - FFDT INTERIOR WALL	-	-	-	-	-	-	-	SEE RMKS	SEE RMKS	UTILITY CHASE AND RECEPTEACLES PROVIDED BY K.E.S.	010.10E1	1	CO2 DRIVEN KETCHUP DISPENSER	JB	10"	-	-	-	-	-	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT BELOW SLAB TO NEAREST FULL HEIGHT WALL, PROVIDE RECEPTEACLE IN COUNTER-MOUNTED RACEWAY							
009.16E1	2	UTILITY CHASE - FFDT EXTERIOR WALL	-	-	-	-	-	-	-	SEE RMKS	SEE RMKS	UTILITY CHASE AND RECEPTEACLES PROVIDED BY K.E.S.	010.10E1	1	CO2 DRIVEN KETCHUP DISPENSER	JB	10"	-	-	-	-	-	SEE RMKS	SEE RMKS	FOR CO2 LINE TO KETCHUP DISP. IF CHASE IS NOT SPECIFIED.							
012.03E4	1	BAKED GOODS DISPLAY CASE - 14"	120/1	2.5	15A	1/2C-2#12	AP-3:1	5-15R	-	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT BELOW SLAB TO NEAREST FULL HEIGHT WALL, PROVIDE RECEPTEACLE IN COUNTER-MOUNTED RACEWAY	020.00E3	1	FINISHING STATION	120/1	8.0	20A	1/2C-2#12	AP-4:18	5-20R	2"-0"	FOR SWITCHES, HUBS AND DRIVE-THRU CAMERAS									
020.01E1	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	5.0	20A	1/2C-2#12	AP-1:12	5-20R	2"-0"	-	214.00E2	1	GREW VIDEO	120/1	3.0	20A	1/2C-2#12G	CP:24	IG5262	5"-0"	-											
020.01E2	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	14.9	20A	1/2C-2#12	AP-1:5	5-20R	3"-10"	-	214.02E1	1	TECHNOLOGY RACK	120/1	5.0	20A	1/2C-2#12G	CP:11	IG4700	7"-6"	FOR SECURITY SYSTEM											
021.01E3	3	COFFEE BREWER (THERMAL POTS)	120-208/1	15.5	20A	1/2C-3#12	AP-1:(2,4)(14,16), AP-3:(26,28)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L14-20R RECEPTEACLE IN CHASE	214.02E2	1	TECHNOLOGY RACK	120/1	3.0	20A	1/2C-2#12G	CP:24	IG5262	5"-0"	-											
021.09E3	1	HOT WATER DISPENSER	120/1	15.4	20A	1/2C-2#12	AP-2:13	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTEACLE IN CHASE	214.02E3	1	TECHNOLOGY RACK	120/1	3.0	20A	1/2C-2#12G	CP:12	IG4700	3"-0"	FOR CASHLESS DEVICE UPS											
023.10E1	1	ESPRESSO BREWER	208/1	21.6	30A	1/2C-2#10	AP-1:(19,21)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L6-30R RECEPTEACLE IN CHASE	214.02E4	1	TECHNOLOGY RACK	120/1	10.0	20A	1/2C-2#12G	CP:15	IG4700	3"-0"	FOR POS SYSTEM UPS AND ORB CONTROLLER											
023.12E1	2	COFFEE CREAM DISPENSER	120/1	1.0	20A	1/2C-2#12	AP-1:8	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTEACLE IN CHASE	214.02E5	1	TECHNOLOGY RACK	120/1	12.0	20A	1/2C-2#12G	CP:17	IG4700	3"-0"	FOR PRE-COOLER											
025.07E1	1	INFUSION TEA BREWER - MIS	120-208/1	13.0	20A	1/2C-3#12	AP-2:(32,34)	L14-20R	2"-3"	-	214.02E6	1	TECHNOLOGY RACK	120/1	3.0	20A	1/2C-2#12G	CP:19	IG4700	7"-6"	EXTEND (2) 2 1/2" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLES											
025.07E2	1	INFUSION TEA BREWER - MIS	-	-	-	-	-	JB	2"-3"	-	215.00E12	2	POS REGISTER - FRONT COUNTER	120/1	3.0 EA	-	3/4C-2#12G	CP:19	IG4700	SEE RMKS	PROVIDE IG RECEPTEACLE IN COUNTER-MOUNTED RACEWAY											
031.03E1	1	SODA SYSTEM PACKAGE - B.I.B. (RECIRCULATING - 3 TOWERS)	208/3	26.0	30A	3/4C-3#10	AP-2:(37,39,41)	SEE RMKS	3"-0"	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTEACLE IN CHASE	215.00E15	1	POS REGISTER - FRONT COUNTER	120/1	3.0 EA	-	4x4x4 PB	10"	SEE RMKS	SEE RMKS	EXTEND 2" CONDUIT UNDER SLAB TO NEAREST FULL HEIGHT WALL AND TO ABOVE CEILING FOR POS DATA CABLES										
031.03E2	1	SODA SYSTEM PACKAGE - B.I.B. (RECIRCULATING - 3 TOWERS)	-	-	-	-	-	JB	4"-0"	-	215.00E16	1	POS REGISTER - FRONT COUNTER	120/1	3.0 EA	-	4x4x4 PB	10"	SEE RMKS	SEE RMKS	EXTEND 2" CONDUIT ABOVE CEILING FOR POS DATA CABLES											
031.03E3	1	SODA SYSTEM PACKAGE - B.I.B. (RECIRCULATING - 3 TOWERS)	120/1	(2) 6.8	20A	1/2C-2#12	AP-2:35	5-20R	6"-6"	SEE RMKS	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTEACLE IN CHASE	215.02E10	2	POS REGISTER - 2 WINDOW D/T	120/1	3.0 EA	20A	1/2C-2#12G	CP:1	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTEACLE IN CHASE									
032.02E1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM	120/1	4.0	20A	1/2C-2#12 EA	AP-2:23	5-20R	6"-0"	-	215.02E12	1	POS REGISTER - 2 WINDOW D/T	120/1	1.5 EA	20A	1/2C-2#12G	CP:19	IG4700	SEE RMKS	SEE RMKS	REFER TO D/T LOW VOLTAGE CONDUIT DIAGRAM FOR CONDUITS UNDER SLAB AND EXTEND (2) 2 1/2" TO ABOVE CLG.										
032.04E1	1	WATER FILTRATION SYSTEM	120/1	0.08	20A	1/2C-2#12 EA	AP-2:23	5-20R	6"-0"	-	216.00E1	3	POS - VIDEO MONITOR	120/1	1.5 EA	20A	1/2C-2#12G	CP:3	IG4700	SEE RMKS	SEE RMKS	IN PRESENTERS BOOTH MOUNT 8"-0" CONDUIT TO CP-8, IN PREP LINE AREA CONNECT TO JB/RACEWAY ON EQUIPMENT IN UPPER LINE CHASE - CONN. TO CP-3										
037.03E1	2	C02 SAFETY SYSTEM - DETECTOR	120/1	1.0	20A	1/2C-2#12	AP-1:16	JB	SEE RMKS	SEE RMKS	PROVIDE LOCKOUT CB, SEE MECHANICAL DRAWINGS	216.00E13	2	POS - VIDEO MONITOR	120/1	1.5 EA	20A	1/2C-2#12G	CP:3													



GENERAL ELECTRICAL NOTES:

INSTALLATION METHODS:

- ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
- 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.
- ALL J-BOXES, DCOS, AND OTHER ELECTRICAL DEVICES SHOWN SHALL BE RECESSED INTO A WALL, FLOOR OR CEILING UNLESS SPECIFICALLY NOTED OTHERWISE.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL HOLES IN THE FRONT COUNTER FOR THE POS CORDS AND CABLES SHALL BE LOCATED BY OWNER AND DRILLED BY GC.
- ALL ELECTRICAL CONDUCTORS SHALL BE CONNECTED TO RECEPTACLES USING ONLY THE TERMINAL SCREWS. RECEPTACLE BACK WIRE/QUICK CONNECTIONS SHALL NOT BE USED.
- 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.
- POWER AND CONTROL CORDS ARE FURNISHED WITH KITCHEN APPLIANCES. THE EC SHALL CONNECT CORD SETS TO APPLIANCES AS REQUIRED.
- 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:

- 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.
- THE EC SHALL ARRANGE WITH THE ELECTRIC, TELEPHONE, AND OTHER UTILITY COMPANIES FOR INCOMING SERVICE REQUIREMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID.
- 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.
- PROVIDE CONCRETE PAD IF TRANSFORMER IS LOCATED ON GRADE AND PROVIDE SECONDARY SERVICE FEEDER AND CONDUITS TO PANEL MDP AS PER LOCAL UTILITY REQUIREMENTS.
- 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.
- EC AND ACM OR OWNER/OPERATOR AND ACM SHALL COORDINATE WITH LOCAL PHONE COMPANY TO PROVIDE A 10 PAIR (OR MORE) COUPLE TELEPHONE CABLE FROM THE TELEPHONE UTILITY EASEMENT TO THE RESTAURANT TELEPHONE DEMARCATON 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 INCOPRORATE 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 DRAWING DETAIL".
- 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:

- IF TELCOM CONDUIT IS TERMINATED WITHIN BUILDING, PVC SHALL TRANSITION TO HWG/RMC TYPE CONDUIT PRIOR TO RISING ABOVE FINISHED SLAB.
- PROVIDE THERMOPLASTIC BUSHINGS AT BOTH ENDS OF CONDUIT FOR CABLING PROTECTION.
- IF 90 DEGREE BENDS ARE REQUIRED, CONTRACTOR SHALL PROVIDE WIDE SWEEPING BENDS TO PREVENT BENDING/DAMAGE TO CABLE.
- ALL COMMUNICATIONS CABLING SHALL BE PULLED VIA THIS CONDUIT.
- 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 AWG SOLID COPPER CONDUCTOR. WIRES MUST NOT BE GREATER THAN 20% OF TENSILE STRENGTH. PROVIDE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
- 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:

- 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).
- CONDUTR 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.
- CONDUTR 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.
- MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS NOTED OTHERWISE. Wires installed outdoors shall be THW.
- 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.
- 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)

- EXPOSED: RMC, IMC.
- CONCEALED: RMC, IMC.
- BELLOW GRADE: SINGLE RUN: RNC, RMC.
- BELLOW GRADE: GROUPED: RNC, RMC.
- CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC.
- BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR 4.

INDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

- EXPOSED: EMT, IMC.
 - CONCEALED: EMT, IMC.
- (CONTINUED ON TOP)

- CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC; EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
- DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
- 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*
INDOORS	< 1" EMT COMPRESS. FTGS >1.25" IMC THREADED FTGS	IMC THREADED FTGS	EMT COMPR. FTGS
OUTDOORS	RMC OR IMC THREADED FTGS	RMC OR IMC THREADED FTGS	
CONCEALED			
WALLS	<2" EMT SET SCREW FTGS >2.5" IMC THREADED FTGS	<2" EMT SET SCREW FTGS >2.5" IMC THREADED FTGS	EMT 1/2" - 2" SET SCREW FTGS 2.5" - 4" COMPR. FTGS
AIR HANDLING CEILING/SPACE	<2" EMT COMP. FTGS >2.5" IMC THREADED. FTGS	<2" EMT COMP. FTGS < 2.5" IMC THREADED. FTGS	EMT COMP. FTGS
NON-AIR HANDLING CEILING/SPACE	<2" EMT SET SCREW FTGS >2.5" IMC THREADED. FTGS	<2" EMT COMP. FTGS >2.5" IMC THREADED. FTGS	EMT 1/2" - 2" SET SCREW FTGS 2.5" - 4" COMP. FTGS
BELLOW 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:

- 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, 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.
- 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.
- EC SHALL REFER TO "POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL, SHEET E4.2, FOR REQUIRED WIRING REQUIREMENTS OF COMPUTER PANEL CP."
- METAL RACEWAYS CONTAINING A GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250 REQUIREMENTS.

TEMPERATURE CONTROLS:

- 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.
- 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.
- 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 BALASTS, 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:

- 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:

- THE EC SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.
- THE EC SHALL PROVIDE ELECTRICAL SERVICE TO THE EQUIPMENT MOUNTED BREAKER PANEL. SEE ELECTRICAL ROUGH-IN PLAN AND SCHEDULE FOR ALL REQUIREMENTS.
- 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:

- 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.

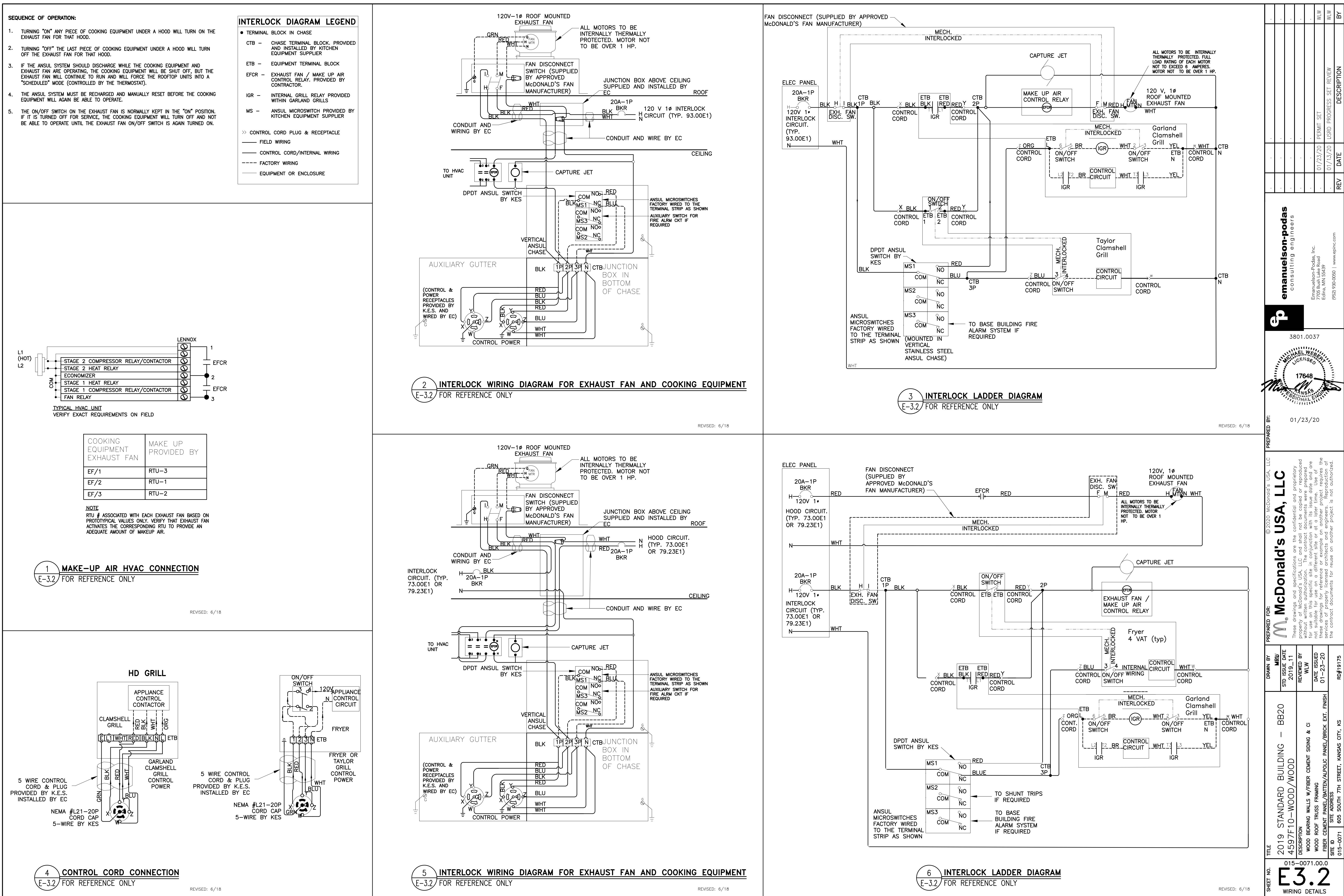
LIGHTING:

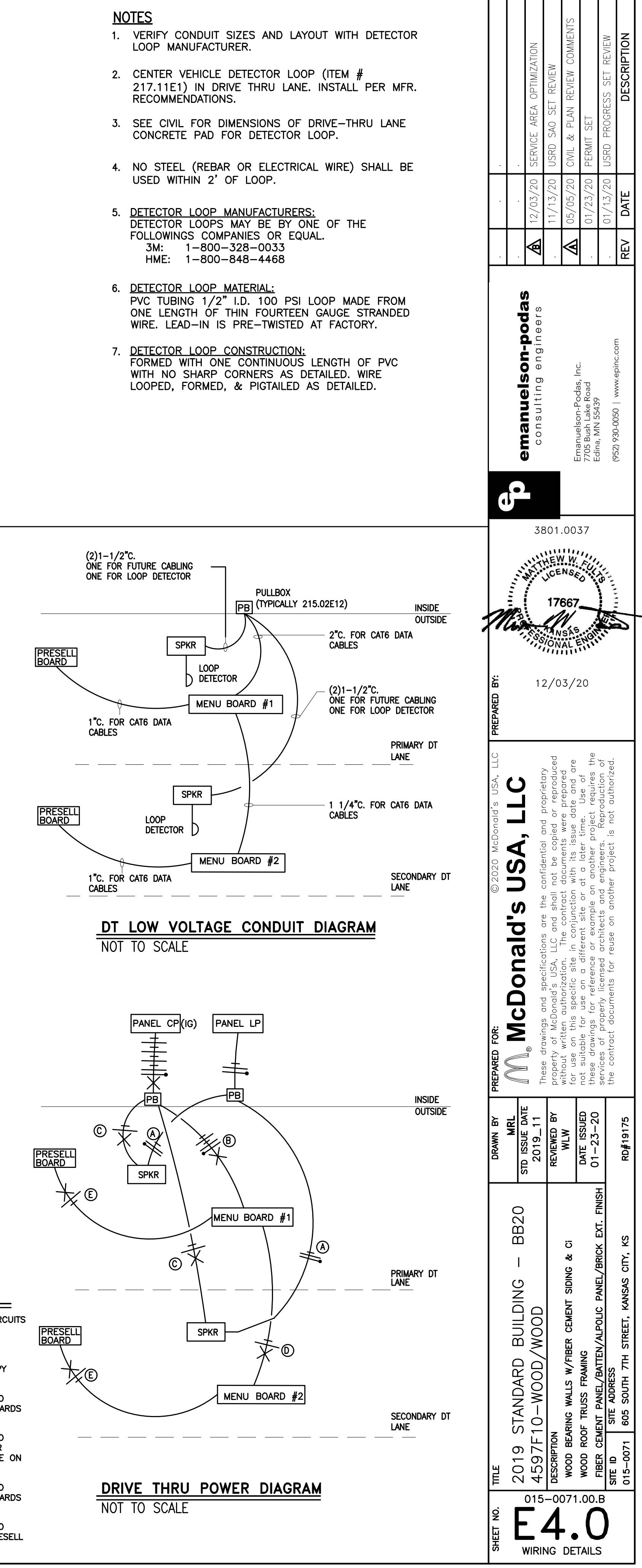
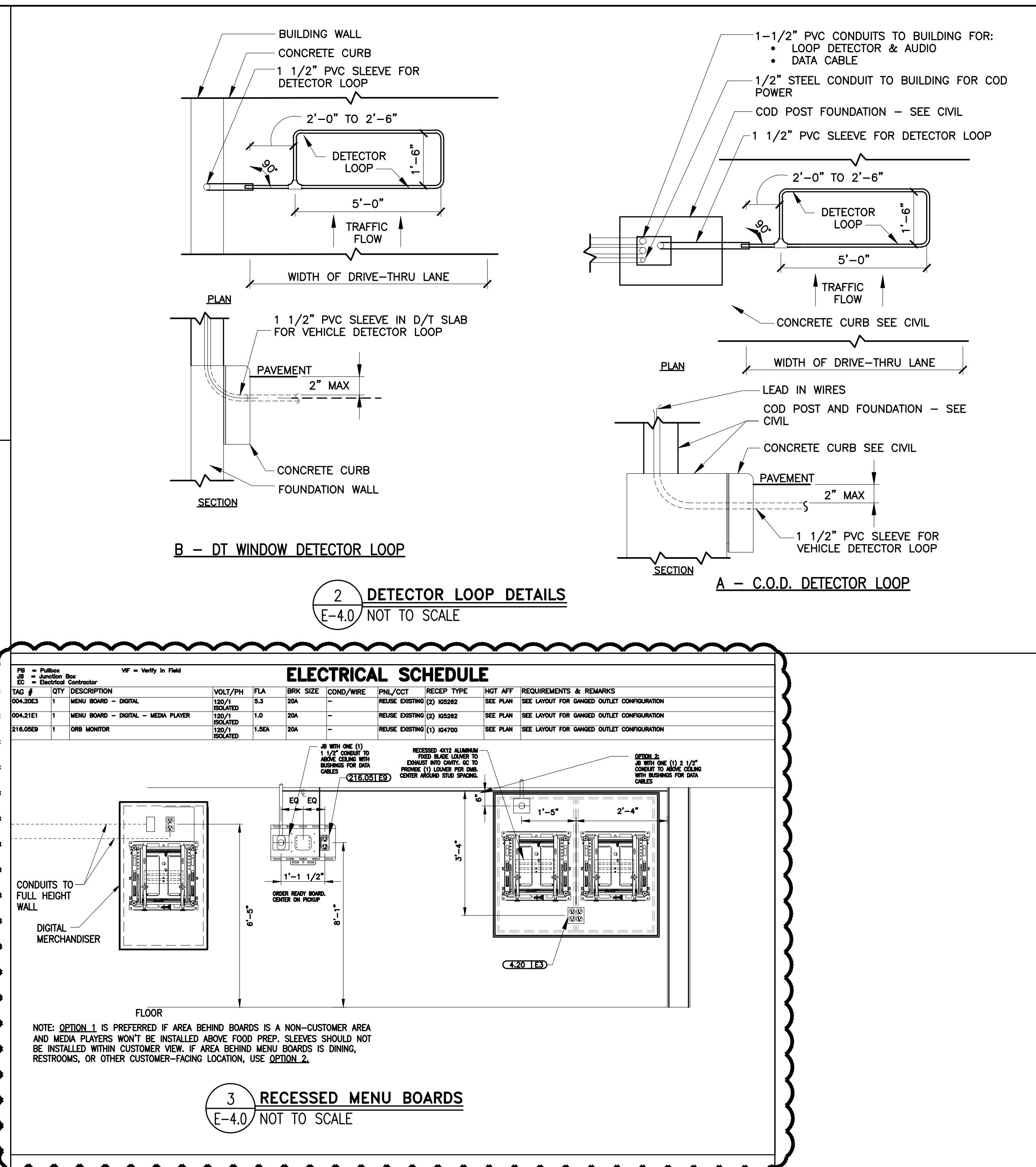
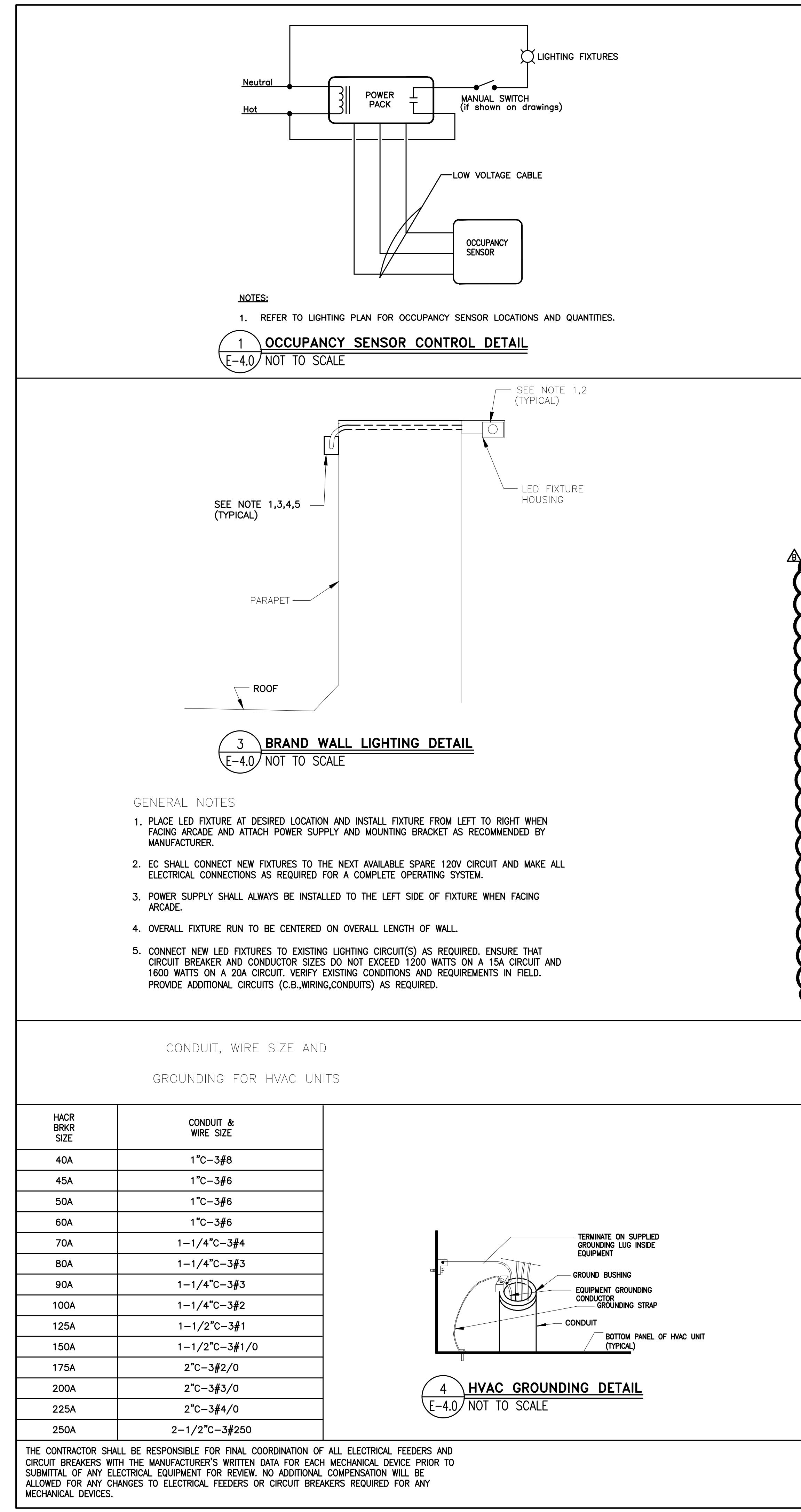
- PROVIDE A WEATHERPROOF JUNCTION BOX IN PARAPET FOR FASCIA SIGN. FINAL CONNECTION BY OTHERS.
- COORDINATE THE LOCATION OF JUNCTION BOX (IN THE WALL) WITH THE OPENING IN TRELLIS (FOR THE LIGHT FIXTURE WIRES). THE LOCATION OF THE JUNCTION BOX AND THE OPENING IN THE TRELLIS SHALL BE ALIGNED FOR THE LIGHT 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.
- 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 INSTALLATION OF SUCH FIXTURE(S). EC SHALL COORDINATE LOCATIONS OF ALL LIGHT FIXTURES IN DINING AREA WITH FINAL SEATING AND DECOR PLANS.
- 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.
- 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.
- 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.
- EC SHALL VERIFY THAT NOT MORE THAN 3% VOLTAGE DROP EXISTS FROM THE LIGHTING PANEL TO ANY EXTERIOR LIGHTING FIXTURE OR SIGN/BALLET.
- 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.
- EC SHALL VERIFY ALL TAP SETTINGS FOR H.I.D. LIGHTING FIXTURES AND MAKE ANY NECESSARY CORRECTIONS PRIOR TO INSTALLATION.

PREPARED BY:		© 2020 McDonald's USA, LLC	
McDonald's USA, LLC		These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without the express written consent of McDonald's USA, LLC. These drawings and specifications are to be used only in connection with the project for which they were prepared. They are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the prior written permission of the project's architect and engineer. Reproduction of these contract documents for reuse on another project is not authorized.	
DRAWN BY: MRL		STD ISSUE DATE: 2019-11	REVIEWED BY: WLW
TITLE: 2019 STANDARD BUILDING - BB20		DATE ISSUED: 01-23-20	FILE# 1975
DESCRIPTION: 4597F10-WOOD/WOOD		SITE ID: 015-0071.00-B	SITE ADDRESS: 605 South 7th Street, Kansas City, KS
SHEET NO. E3.1		NOTES & DETAILS	

Matthew W. Ellis
LICENSED
PROFESSIONAL ENGINEER
17667
KANSAS CITY, MO
12/03/20

Emmanuelson-podas
consulting engineers
Emmanuelson-Podas, Inc.
Edna, IN 46528
(920) 930-0050 | www.eppinc.com





MLO, AIC: NOTES D6, D7, & D8, Mounting: MDP, NEMA				PANEL AP-1						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE	
WATTS				BRKR	TRP	CCT	CCT	TRIP	BRKR		
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A
1632			DCO - General Purpose	G	20A-1	1	2	20A-2	G	Coffee brewer (presenter's booth)	1612
	720		DCO - General Purpose	G	20A-1	3	4	I	I	I	
	1200		DCO - General Purpose	G	20A-1	5	6	20A-1	G	ABS (phase c, presenter's booth)	
120			Safe - (mo) DCO Gen Purp	L	20A-1	7	8	20A-1	G	OJ dispenser/Coffee Cream Disp	1668
	240		Remote Order Battery	G	20A-1	9	10	20A-1	G	DCO - General Purpose	
	1140		Merge/audio sys/driv mon(sa)	G	20A-1	11	12	20A-1	G	Automated beverage sys (abs,pb)	
960			Washer	G	15A-1	13	14	20A-2	G	Coffee Brewer (front counter)	1612
	1800		Hand held Order	G	20A-1	15	16	I	I	I	
	120		Computer Room (TF/1)		20A-1	17	18	30A-3	G	Heat treat combo shake (frnt cntr)	
2246			Espresso Brewer	G	30A-2	19	20	I	I	I	1560
	2246			I	I	I	21	22	I	I	
	1500		3-Vat fryer exhst hd interlock	G	20A-1	23	24	20A-1	G	3-Vat fryer exhst hd interlock	
1200			Reach in Freezer-SW	G	20A-1	25	26	20A-2	H	Ice Machine Remote Condensor	104
	1080		Frozen fry dispenser (fry wall)	G	20A-1	27	28	I	I	I	
	2112		4-Vat fryer exhst hd interlock	G	20A-1	29	30	20A-1	G	Reach in Freezer-SW	
1884			Fry bagging station 36" (fry wall)	L,G	20A-1	31	32	15A-3	H	Ice Machine Remote Cond	1224
	60		Hand Wash Timer	G	20A-1	33	34	I	I	I	
	1200		Reach in Freezer-SW	G	20A-1	35	36	I	I	I	
132			Ice machine - 1000 lb	G	15A-1	37	38	15A-3	H	Ice Machine Remote Cond	1224
	132		Ice machine - 1000 lb	G	15A-1	39	40	I	I	I	
	1656		4-Vat fryer exhst hd interlock	G	20A-1	41	42	I	I	I	
										Total Connect	17178
										Connect Amps	
										Demand Amps	

MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1				PANEL AP-2						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE	
WATTS				BRKR	TRP	CCT	CCT	TRIP	BRKR		
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A
1536			Ice machine 1400LB	H	20A-3	1	2	20A-1	G	Refrigerator - Single Wide	684
	1536			I	I	I	3	4	20A-1	Janitor EF	
	1536			I	I	I	5	6	20A-1	GDCO - General Purpose	
624			Soda tower-cold plate(self serv)	G	20A-1	7	8	20A-1		Spare	
	180		Janitor's closet	G	20A-1	9	10	20A-2	H	Trash Compactor	
			Spare	L	20A-1	11	12	I	I	I	
1848			Hot Water Dispenser	G	20A-1	13	14	20A-1	G	Walk in cooler / freezer	1200
	864		Bulk oil system (sup area)	G	20A-1	15	16	20A-1	G	Walk in cooler / freezer	
	1668		Clm gril exhaust hd interlock	G	20A-1	17	18	20A-2	G	Q'ing oven - P& S	
840			Meat freezer	G	20A-1	19	20	I	I	I	1550
	120		Clean in place panel	G	20A-1	21	22	20A-1	G	Specialty Coffee Refrigerator	
	490		Reverse Osmosis, Filtration	G	20A-1	23	24	20A-1	G	Compressed Air System	
180			DCO in Trash Corral	G	20A-1	25	26	20A-1	G	Refrig-wt-48"	600
	1200		Bulk oil sys - support area (sa)	G	20A-1	27	28	20A-2	G	Q'ing oven - P& S	
	1032		BIC Machine	G	20A-1	29	30	I	I	I	
684			Refrigerator - Single Wide	G	20A-1	31	32	20A-2	G	Iced Tea Brewer	1352
	120		Recirc pump	G	20A-1	33	34	I	I	I	
	1632		Soda syst pack (support area)	G	20A-1	35	36	20A-1	G	DCO - General Purpose	
3120			Soda syst pack (support area)	G	30A-3	37	38	20A-1		BAS Controller	360
	3120			I	I	I	39	40	20A-1	Spare	
	3120			I	I	I	41	42	20A-1	GDCO - gen purpose	
										Total Connect	14578
										Connect Amps	
										Demand Amps	

WATTS			PANEL AP-3						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE		
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A
600			Baked Goods Display Case		15A-1	1	2	50A-3	G	3 - Vat LOV Fryer - Elec. - F/F/F	4668
			Universal Radiant Toaster	G	30A-2	3	4	I	I	I	
	2621			I	I	I	5	6	I	I	
1140			Hand Dryer	L,G	20A-1	7	8	50A-3	G	3 - Vat LOV Fryer - Elec. - F/F/F	4668
1140			Hand Dryer	L,G	20A-1	9	10	I	I	I	
1140			Hand Dryer	L,G	20A-1	11	12	I	I	I	
1140			Hand Dryer	G	20A-1	13	14	50A-3	G	3 - Vat LOV Fryer - Elec. - F/F/F	4668
360			Refrigerator/freezer 2 drwr	L,G	20A-1	15	16	I	I	I	
	384		Refrigerator 2 Drawer	G	20A-1	17	18	I	I	I	
384			Refrigerator 2 Drawer	G	20A-1	19	20	20A-1		Spare	
120			DCO-Satellite Music System		20A-1	21	22	20A-1		Toilet Exhaust Fan	
			Spare		20A-1	23	24	20A-1	G	Roof receptacles	
1368			WareWasher	G	20A-1	25	26	20A-2	G	Coffee Brewer (Glass Decanter)	1612
1656			Bulk Oil System	G	20A-1	27	28	I	I	I	
	120		D.T. Window Power		15A-1	29	30	20A-1		Clg. Mt window recepts	
4000			Unit AC-1		50A-2	31	32	50A-2		Unit AC-2	4000
4000			I		I	33	34	I		I	
	1200		Unit AC-3		20A-1	35	36	20A-1	G	Spare	
1200			Unit AC-4		20A-1	37	38	20A-1	G	Prep Table	840
660			Unit AC-5		20A-1	39	40	20A-1	G	Wall MT freezer SW	
	120		D.T. Window Power		20A-1	41	42	20A-1		D.T. Window Power	
				* If a prince castle toaster is used, EC to coordinate correct circuit with KES supplied cordset						Total Connect	30288
										Connect Amps	

MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1			PANEL AP-4						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE			
WATTS			BRKR	TRP	CCT	CCT	TRIP-	BRKR				
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A	
2604			3 - Platen Clamshell Grill	G	50A-3	1	2	50A-3	G	3 - Platen Clamshell Grill	2604	
	2604			I	I	I	3	4	I	I	I	
	2604			I	I	I	5	6	I	I	I	
5196			3 - Platen Clamshell Grill	G	50A-3	7	8	50A-3	G	3 - Platen Clamshell Grill	5196	
	5196			I	I	I	9	10	I	I	I	
	5196					11	12	I	I	I		
1602			Q'ing oven - P& S	G	20A-2	13	14	15A-1	G	Ventless Hood Combi	960	
	1602			I	I	I	15	16	15A-1	G	Ventless Hood Combi	
	2080		Frozen Beverage Dispenser	G	30A-2	17	18	20A-1	G	Finishing Station		
2080				I	I	I	19	20	30A-3	G	Combi Oven	1047
	180		McDelivery Center		20A-1	21	22	I	I	I		
					20A-1	23	24	I	I	I		
					20A-1	25	26	30A-3	G	Combi Oven	1047	
			Space			27	28	I	I	I		
			Space			29	30	I	I	I		
			Space			31	32	20A-1		Spare		
			Space			33	34	20A-1		Spare		
			Space			35	36	20A-1		Spare		
			Space			37	38	20A-1	G	Spare		
			Space			39	40	20A-1		Spare		
			Space			41	42	20A-1		Spare		
									Total Connect	22335		
									Connect Amps			

SEE SHEET E3.1 FOR GENERAL
ELECTRICAL NOTES

ELECTRIC UTILITIES CALC

BREAKER MODIF

BREAKER MODIFICATIONS:

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

TOTAL BUILDING 208Y/120V, 3 PHASE, 4-WIRE GENERAL SERVICE POWER BASED ON NEC 220.88 FOR AN "ALL ELECTRIC" NEW

NEC Optional Method	(kW)	(A)
1. Continuous Loads:	35	96
2. Kitchen Loads:	294	817
3. HVAC Loads:	189	526
4. Cooling:	123	341
5. Total (1+2+3+4):	641	1780
6. Base Value (See 220.88):	325	902
7. Amount Over Base Value (5-6):	316	878
8. Demand Factor:	.5	
9. Adjusted Value (8*7):	158	439
10. Adjusted Base Value (220.88):	172.5	479
11. Demand (9+10):	331	918

MLO, AIC: NOTES D6,D7,&D8, Mounting: MDP, NEMA 1			PANEL AP-5						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH						
WATTS									WATTS						
A	B	C	DESCRIPTION	REQ	PLS	CCT	CCT	TRIP-	BRKR	DESCRIPTION	A	B	C		
			Spare		20A-1	1	2	20A-1	G	Chilled Rail	192				
1477			Universal Holding Cabinet - 2S	G	20A-2	3	4	20A-1	G	Pie Display		564			
	1477					5	6	20A-1	G	Pie Display			564		
1477			Universal Holding Cabinet - 2S	G	20A-2	7	8	50A-3	G	4 - Vat LOV Fryer - Elec. S/S/S	4668				
1477						9	10					4668			
	240		UHC Table Hub and Spoke	G	20A-1	11	12						4668		
			Spare		20A-1	13	14	50A-3	G	4 - Vat LOV Fryer - Elec. S/S/S	4668				
1477			Universal Holding Cabinet - 2S	G	20A-2	15	16					4668			
	1477					17	18						4668		
			Spare		20A-1	19	20	50A-3	G	4 - Vat LOV Fryer - Elec. S/S/S	4668				
			Spare		20A-1	21	22					4668			
			Space			23	24						4668		
			Space			25	26	50A-3	G	4 - Vat LOV Fryer - Elec. S/S/S	4668				
			Space			27	28					4668			
			Space			29	30						4668		
			Space			31	32	20A-1		Spare					
			Space			33	34	20A-1		Spare					
			Space			35	36	20A-1		Spare					
			Space			37	38			Space					
			Space			39	40			Space					
			Space			41	42			Space					
												Total Connect	20341	23666	22430
												Connect Amps		185	Amps
												Demand Amps		120	Amps

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
			Spare		20A-1	1	2	20A-1	S	Flag Pole	220			
			Spare		20A-1	3	4	20A-1		Spare				
			Spare		20A-1	5	6	20A-1	S	Front Signage				294
100			Trash Corral Lighting	S	20A-1	7	8	20A-1		Spare				
294			Back, DT & Non DT Signage	S	20A-1	9	10	20A-1	S	Exterior Wall/Soffit Lights				114
	193		Flood Lights & Canopy lights	S	20A-1	11	12	20A-1	S	Exterior Wall/Soffit Lights				132
			Spare		20A-1	13	14	20A-1		DCO In Road Sign Base	180			
86			Linear LED Façade Lighting	S	20A-1	15	16	20A-1	S,L	Security Ltg\Dr Alarm\CO2				524
			Spare	S	20A-1	17	18	30A-2		Lot Lights				480
96			Directional Sign	S	20A-1	19	20	I		I				480
96			Directional Sign	S	20A-1	21	22	30A-2		Lot Lights				240
120			COD Lighting	S	20A-1	23	24	I		I				240
			Spare		20A-1	25	26	30A-2		Lot Lights				480
30			Toy Display	S	20A-1	27	28	I		I				480
	232		Dining Area Lighting	S	20A-1	29	30	30A-2		Spare				
180			Dining Area Lighting	S	20A-1	31	32	I		I				
			Spare	S	15A-1	33	34	20A-1		Spare				
	596		Kitchen Lighting	S	20A-1	35	36	20A-1		Spare				
108			Restroom Lighting	S	20A-1	37	38	20A-1	S,L	Night/Ltg./Emerg. LED Lighting	179			
368			Support Area Lighting	S	20A-1	39	40	30A-2	S	Mcd'S Road Sign				2496
	460		Night/Exit/Emerg. Ltg.	S,L	20A-1	41	42	I	I	I				2496
									Total Connect	2023	4728	5243		
									Connect Amps		33	Amps		
									Demand Amps		42	Amps		

100 MLO AIC: SEE NOTES D6, D7, & D8, Mounting: Flush			COMPUTER PANEL						100A, 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	
1236			POS/Reg/Mon/Printer	L	20A-1	1	2	20A-1	L	Wayport/Pos video monitor	180			
	1764		Pos -Kvs Mon./Rec Prntr/Video Monitor	L	20A-1	3	4	20A-1	L	Pos & ORB monitor,scanner / Rec Printer/Table locator		1056		
	100		CCTV/Timer		20A-1	5	6	20A-1	L	Menu Board-Digital				864
390			Coin Disp/POS-Hrdwr/timer/Vid	L	20A-1	7	8	20A-1	L	Pos-Pc Pres. Booth /Video Mon.	300			
	180		POS- Video Monitor		20A-1	9	10	20A-1		LCD Televisions		720		
	600		Technonlogy rack	L	20A-1	11	12	20A-1	L	Tech. rack/Pos Frt Counter				360
180			McCafe Menu Board		20A-1	13	14	20A-1	L	COD #1, POS optical isolator	120			
	1200		Tech rack	L	20A-1	15	16	20A-1	L	Pos Crew Room/Cashless Train		1800		
	1440		Tech rack	L	20A-1	17	18	20A-1	L	COD #2				120
1080			Pos PC front counter	L	20A-1	19	20	20A-1	L	Office desk	1200			
	312		Table Locator System	L	20A-1	21	22	20A-1	L	Office desk		1200		
	60		Time Clock	L	20A-1	23	24	20A-1	L	Crew Video				360
1860			Exterior Menu Board	L	20A-1	25	26	20A-1	L	POS video monitor	300			
	1860		Exterior Menu Board	L	20A-1	27	28	20A-1	L	Kiosks		672		
			Spare	L	20A-1	29	30	20A-1	L	Kiosks				672
			Spare	L	20A-1	31	32	20A-1	L	Spare				
			Spare	L	20A-1	33	34	20A-1	L	Spare				
			Spare	L	20A-1	35	36	20A-1	L	Spare				
			Spare	L	20A-1	37	38	20A-1	L	Spare				
			Spare	L	20A-1	39	40	20A-1	L	Spare				
			Spare	L	20A-1	41	42	20A-1	L	Spare				

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	REQ	PLS	NO.	NO.	PLS	REQ	TYPE	DESCRIPTION		A	B	C		
2023	4728	5243	Lighting Panel 1; LP-1			225A-3		1	2	225A-3				Appliance Panel; AP-1		17178	14064	17700		
14578	14306	18433	Appliance Panel; AP-2			225A-3		3	4	225A-3	SHT		Appliance Panel; AP-3		30288	29016	20969			
7405	6529	5897	KEC Breaker Panel			125A-3		5	6	100A-3	L		CP Panel		6846	10764	4936			
17520	17520	17520	*Roof Top Unit 1		H	175A-3		7	8	225A-3	H		*Roof Top Unit 3		24120	24120	24120			
20341	23666	22430	Appliance Panel; AP-5		SHT	225A-3		9	10	225A-3	SHT		Appliance Panel; AP-4		22335	20435	20734			
4920	4920	4920	Remote Condensing Unit			50A-3		11	12	50A-3	H		*Roof top unit 2		5880	5880	5880			
			Space					13	14	200A-3			Water Heater		18000	18000	18000			
			Space					15	16				Space							
			Space					17	18				SPD							
			Space					19	20				SPD							
* SEE ELECT SHTS FOR CONDUIT AND WIRE SIZE														Total Connect	191434	193949	186781			

DISTRIBUTION EQUIPMENT NOTES:

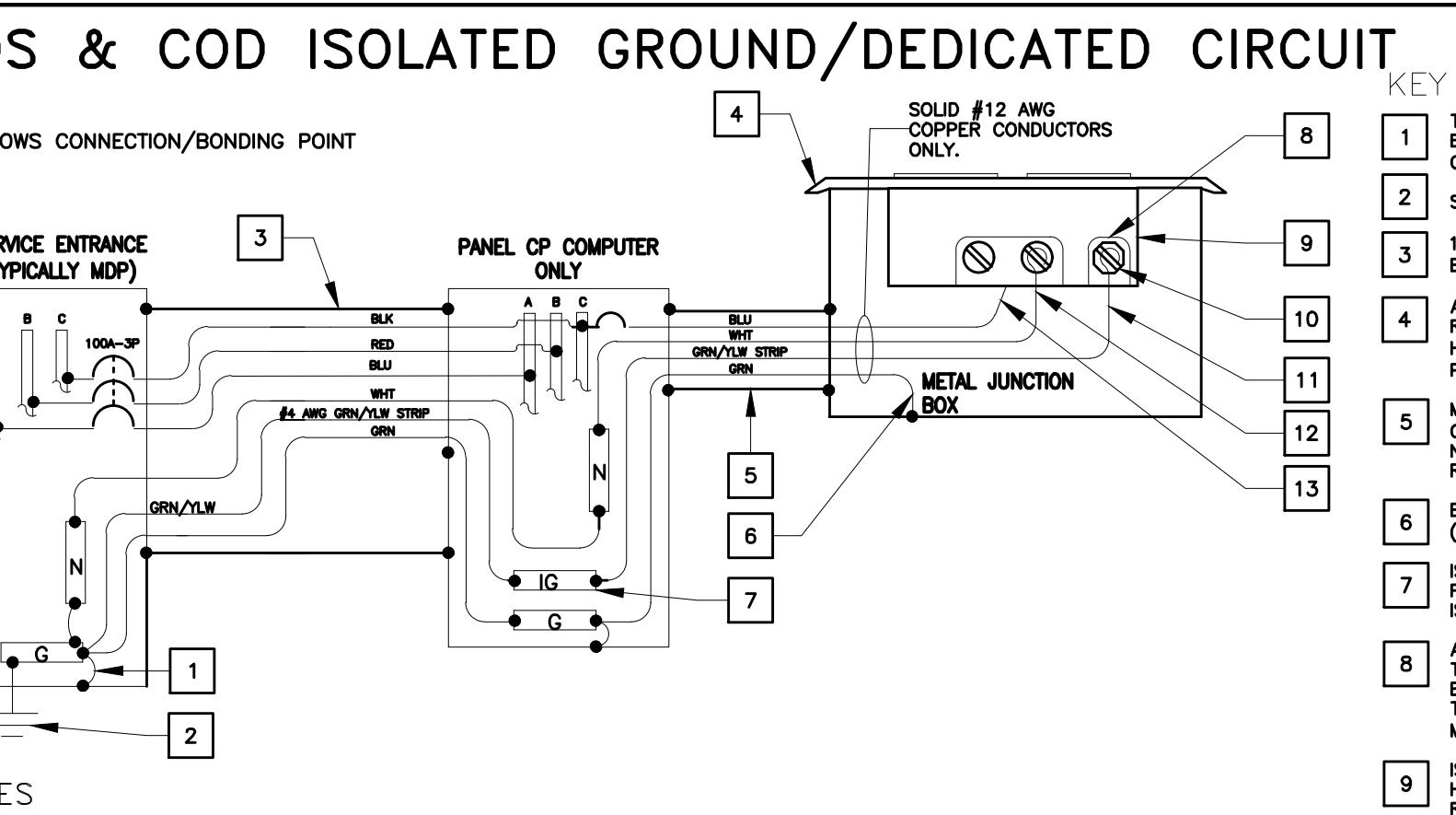
- D1. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.

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:



- P.O.S. EQUIPMENT (COMPUTERS, PRINTERS, MONITORS KVS, DEM, HUB & COD) SHALL BE POWERED FROM THE COMPUTER NEL.

LL OTHER COMPUTER/DIGITAL EQUIPMENT SHALL BE POWERED ROM PHASE "A" IN THE COMPUTER PANEL.

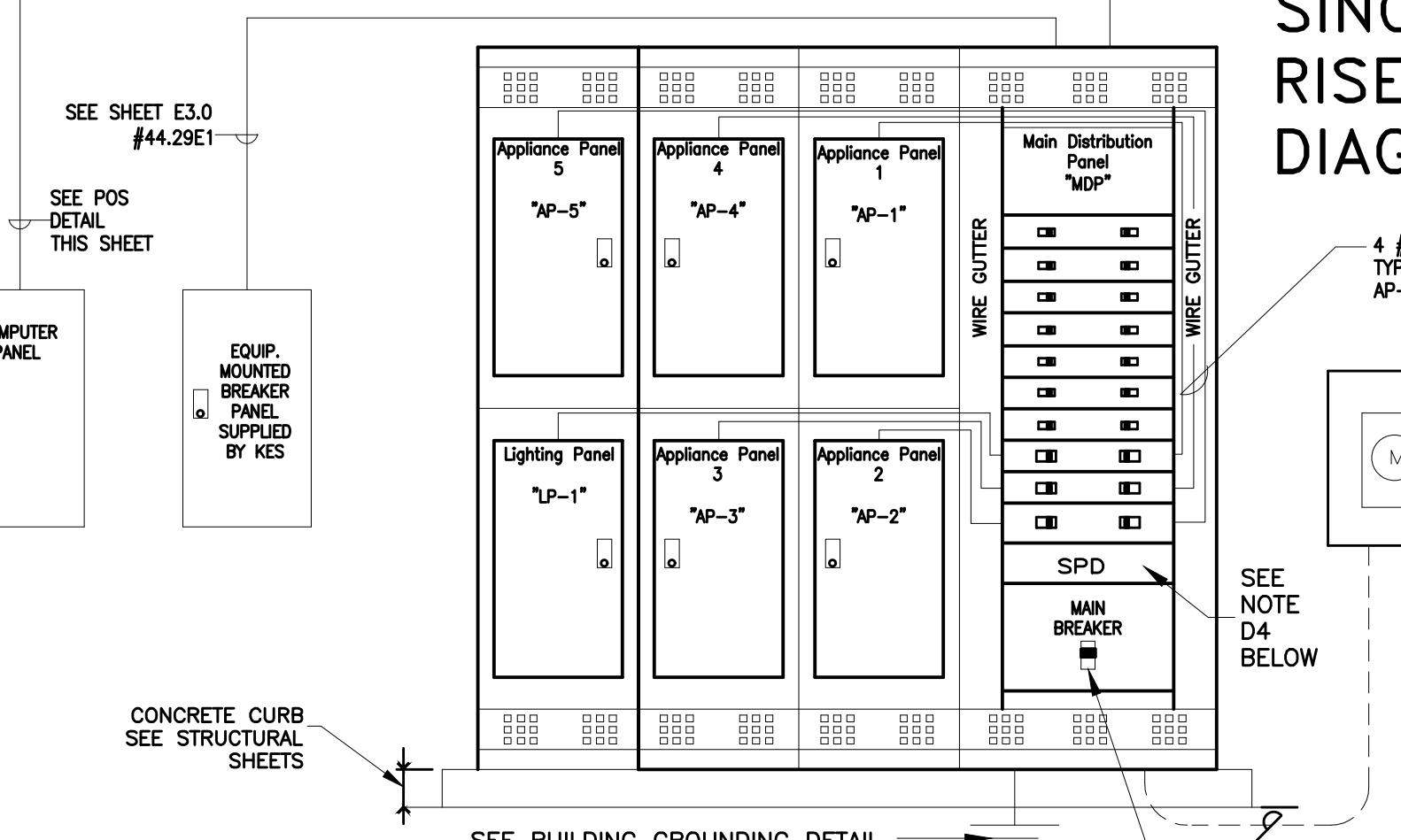
OLATED GROUND INSTALLATION SHALL COMPLY WITH THE QUIREMENTS OF NEC SECTION 250 .

CH 20 AMP CIRCUIT SHALL HAVE IT'S OWN ISOLATED EQUIPMENT OUNDING CONDUCTOR.

TIRE GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250 D MCDONALD's BUILDING GROUNDING DETAIL.

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.



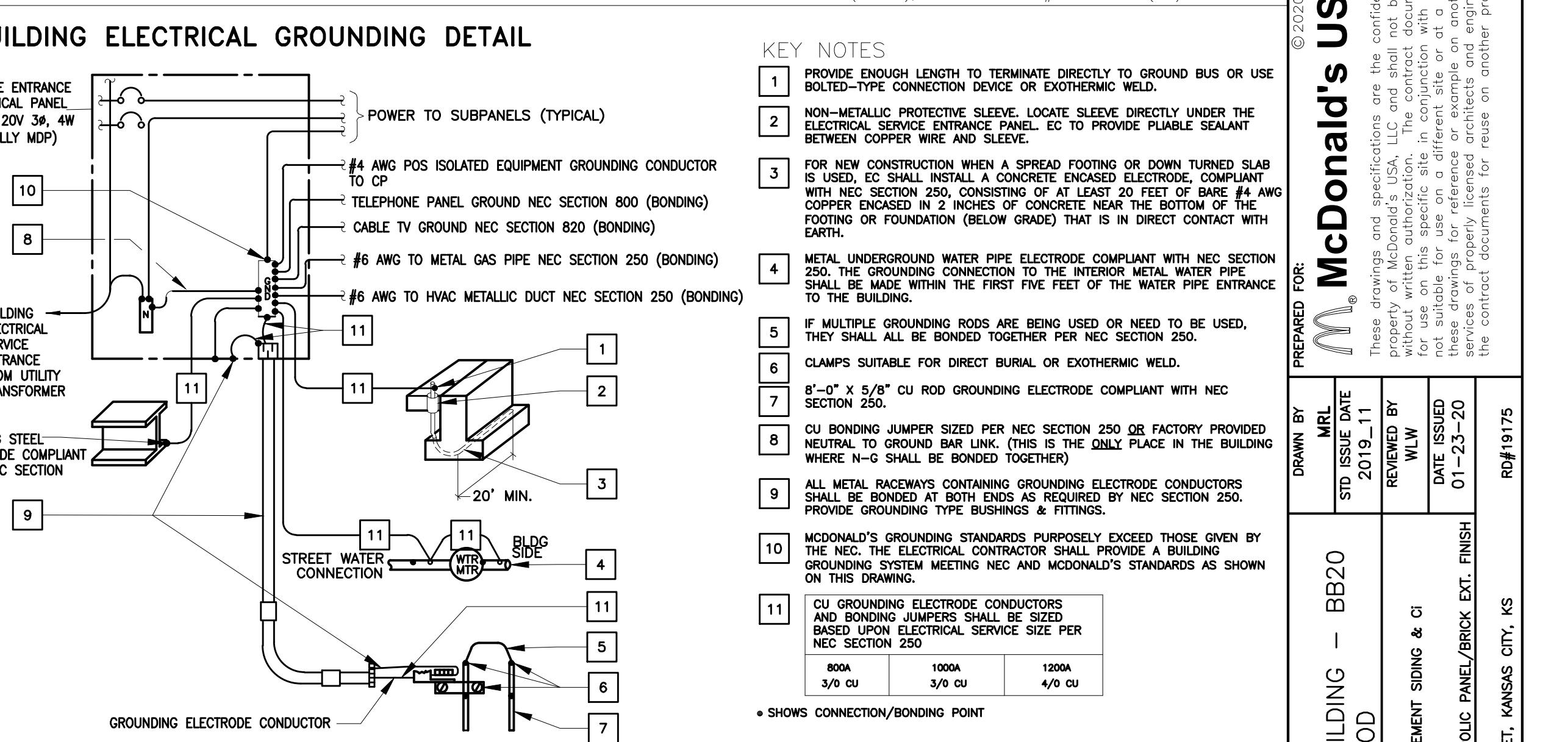
SINGLE LINE RISER DIAGRAM

ED ON SILVER SCREW.
ON BRASS SCREW

	12/03/20
PREPARED BY:	
McDonald's USA, LLC	
Southern California	
<p>CONFIDENTIAL AND PROPRIETARY</p> <p>DO NOT COPY OR REPRODUCE</p> <p>DOCUMENTS WERE PREPARED</p> <p>AT ITS ISSUE DATE AND ARE</p> <p>NOT VALID LATER TIME.</p> <p>USE OF</p> <p>THIS PROJECT REQUIRES THE</p> <p>SERVICES OF PROFESSIONAL</p> <p>ENGINEERS. REPRODUCTION OF</p> <p>THIS DOCUMENT IS NOT AUTHORIZED.</p>	

© 2022 McDonald's USA

McDonald's USA



- 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."

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.

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

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

ALL CIRCUIT BREAKERS USED FOR HID TYPE FIXTURES SHALL BE HID RATED.

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

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

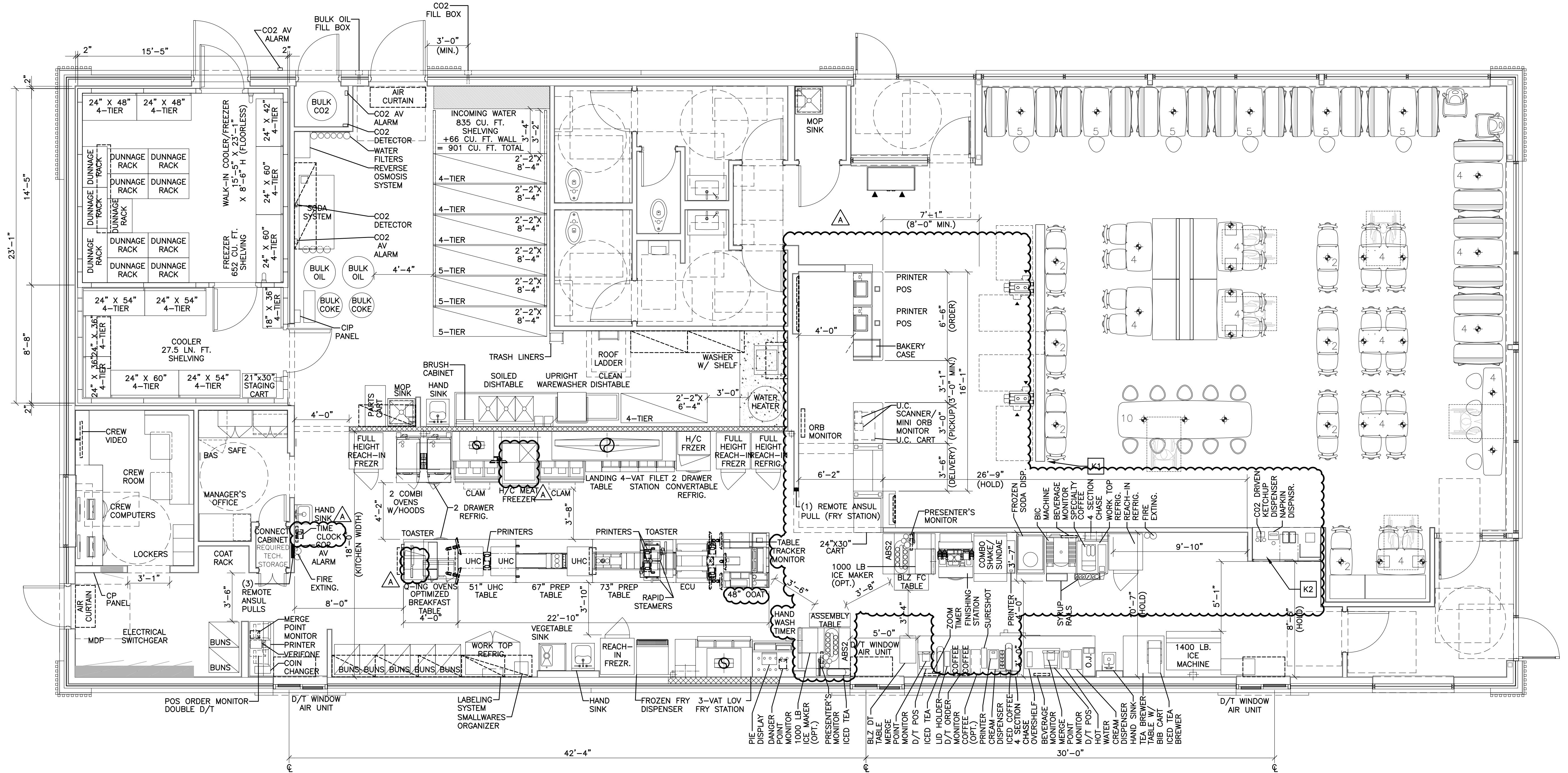
D15. ALL PANELS SHALL BE PROVIDED WITH A KEY LOCK AND LATCH. EACH PANEL SHALL HAVE TWO KEYS WITH ALL PANELS KEYED ALIKE.

D16. PANELBOARD MANUFACTURER SHALL PROVIDE ARC-FLASH WARNING LABELS FOR MDP AND ALL BRANCH PANELBOARDS IN ACCORDANCE WITH NEC110.

D17. ALL RECEPTACLES IN THE KITCHEN AREA MUST HAVE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION PER NEC 210.8 (B) (2).

D18. 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 UTILITY TRANSFORMER DATA, CABLE LENGTHS, ETC AND COORDINATING WITH THE SWITCHBOARD SUPPLIER OR ELECTRICAL ENGINEER SO THAT AN ARC FLASH STUDY CAN BE PERFORMED. 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.

SHEET NO.	TITLE	
	<u>2019 STANDARD BU</u> <u>4597F10-WOOD/WO</u>	
DESCRIPTION	<u>WOOD BEARING WALLS W/FIBER C</u> <u>WOOD ROOF TRUSS FRAMING</u> <u>FIBER CEMENT PANEL/BATTEN/ALP</u>	
SITE ID	SITE ADDRESS	
015-0071	605 SOUTH 7TH STREET	
 E4.2 ELECTRIC UTIL. DIST.		



KITCHEN COVER SHEET

1
K1.0 1/4" = 1'-0"

KEYED NOTES

K1 SEATING AND KIOSKS MUST BE 5'-0" CLEAR FROM BEVERAGE CELL WALL

K2 KES TO ENSURE AMENITY TOWER EQUIPMENT PLACEMENT MEETS ADA REQUIREMENTS

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

DRAWN BY: RH

STD ISSUE DATE: 2019-11

REVIEWED BY: RH

DATE ISSUED: 11/15/2019

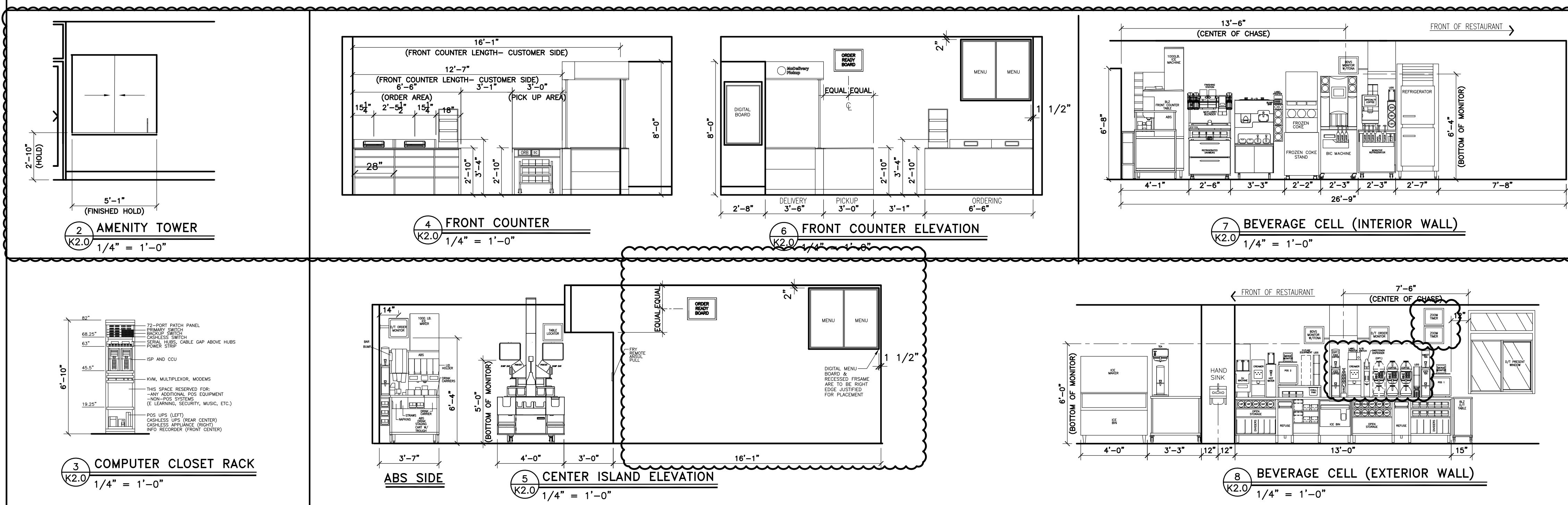
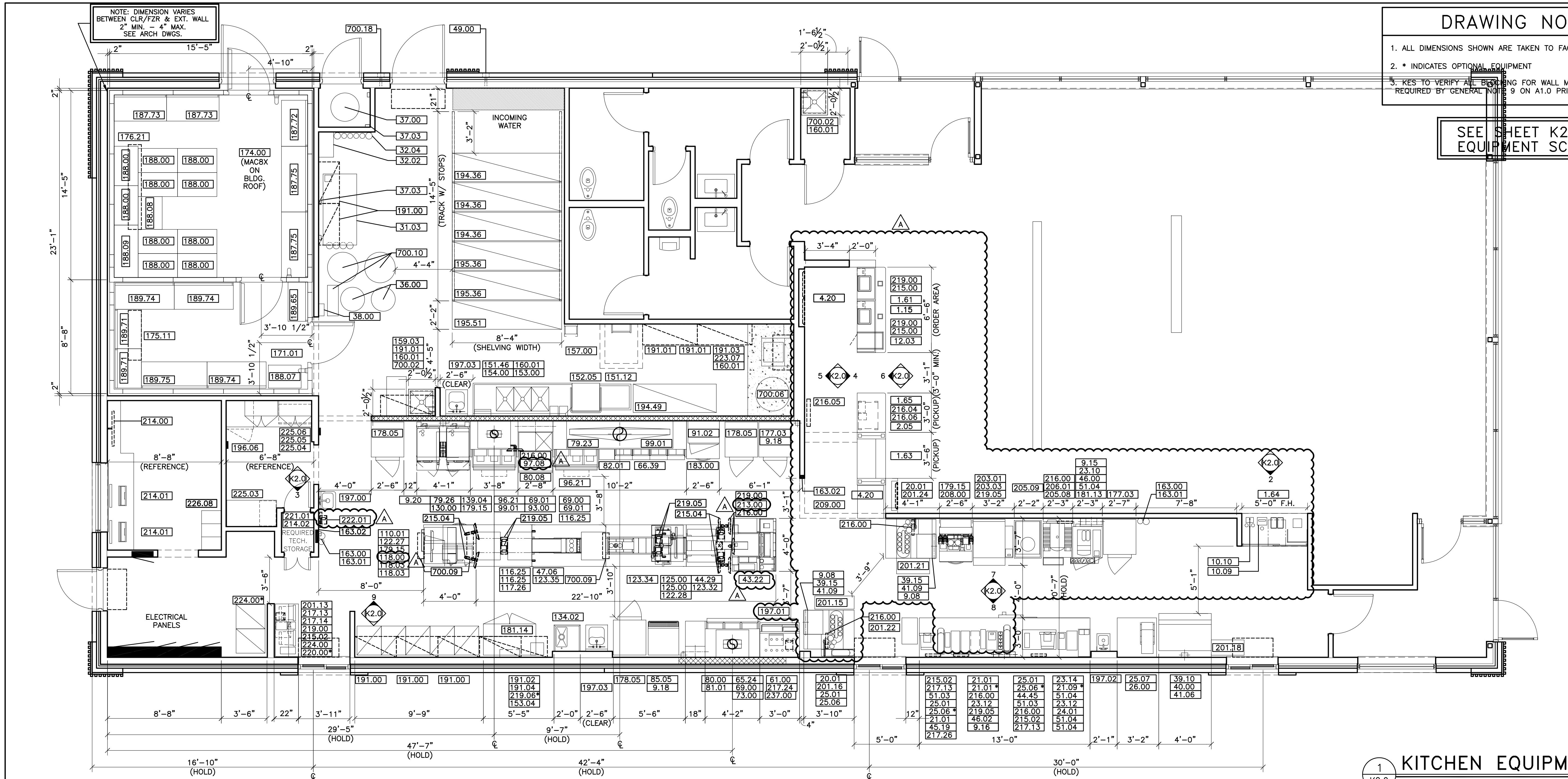
REV. DATE: BY

© 2019 McDonald's USA, LLC

These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without the express written consent of McDonald's USA, LLC. These drawings are for use on this specific site in conjunction with its issued date and are not suitable for use on a different site or at a later time. Use of these drawings for reference or example on another project requires the services of properly licensed architects and engineers. Reproduction of the contract documents for use on another project is not authorized.

SHEET NO. 015-0071.000
TITLE 2019 STANDARD BUILDING - BB20
DESCRIPTION WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & CI
ELLS/BATTEN/METAL PANEL/BRICK EXTERIOR FINISH
SITE ID 015-0071
ADDRESS 605 South 7th St, Kansas City, KS

K1.0
KITCHEN COVER SHT



SHEET NO.	TITLE	DRAWN BY	DRAWN FOR:	STD ISSUE DATE	REVIEWED BY	DATE ISSUED	BY
015-0071.000	2019 STANDARD BUILDING - BB20 4597-WOOD/WOOD	RH	M® McDonald's USA, LLC	2019-11	RH	11 15 2019	

DESCRIPTION: WOOD BEARING WALLS W/4" BRICK EXTERIOR FINISH & GI
WOOD ROOF TRUSSES FRAMING
EL.F.S./BATTE/METAL PANEL/BRICK EXTERIOR FINISH
ADDRESS: 605 South 7th St. Kansas City KS
SITE ID: 015-0071

x = Optional Equipment
CC = General Contractor
R = Relocated Equipment

EQUIPMENT SCHEDULE

ITEM	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
1.15	3	SERVICE POD COUNTER PLUS BASE EXTENSION	DECOR	MFC-6	-	2	KES	-		
1.61	1	SERVICE POD - 6"	DECOR	SEE PLAN	-	2	KES	-		
1.63	1	McDELIVERY PICKUP COUNTER	DECOR	SEE PLAN	-	2	KES	-		
1.64	1	AMENITY TOWER	DECOR	SEE PLAN	-	2	KES	-		
1.65	1	PICKUP POD - 36"	DECOR	SEE PLAN	-	2	KES	-		
2.05	1	UNDER COUNTER CART - 24" W x 18" D FRONT	INTERMETRO	DC 8-DMS	-	2	KES	-		
4.20	3	WENBOARD - DIGITAL	LG	49SH7DB	-	-	AT&T	-		
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	2	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		
10.09	1	NAPKIN DISPENSER - DROP-IN	GEORGIA PACIFIC	54218	-	2	KES			
10.10	1	CO2 DRIVEN KETCHUP DISPENSER	PERFECTION	MCD-1	-	2	KES			
12.03	1	BAKED GOODS DISPLAY CASE - 14"	ANTUNES	DC-14	-	2	KES			
20.01	2	AUTOMATED BEVERAGE SYSTEM 2.0	MI CORNELIUS	821058990101	-	-	KES	INSTALLATION KIT INCLUDES STAINLESS STEEL CHASE & DATA LINE		
21.01	3	COFFEE BREWER (THERMAL POTS)	BUNN-O-MATIC	AIXOM-DV-3	E32066	4	KES	W/ELECTRONIC CONTROLLER FOR CONVERSION TO LOW OR HIGH VOLTAGE		
21.09	1	HOT WATER DISPENSER	BUNN-O-MATIC	HW2	E32066	4	KES	-		
23.10	1	ESPRESSO BREWER	FRANKE	FM850	-	4	KES	-		
23.12	2	COFFEE CREAM DISPENSER	SURESHOT	AC110-PC-51	E217698	20	KES	-		
23.14	1	SUGAR/SWEETENER DISPENSER	SURESHOT	AC2-6P-30	E217698	18	KES	-		
24.01	1	ORANGE JUICE DISPENSER	TAYLOR	C009	-	18	KES	-		
25.01	3	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		
26.00	1	TEA BREWER TABLE - 30"x36"	ISS SHELVING	WST1756C	-	2	KES	-		
31.03	1	SODA SYSTEM PACKAGE B.I.B.RECIRCULATING - 3 TOWERS) - REMOTE	MULTIPLEX	500GR04	E121876	18	KES	-		
32.02	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM - EVERPURE	EVERPURE	ENVI-RO-600	-	-	KES	FOR COFFEE MAKER, ESPRESSO MACHINE, AND RAPID BUN STEAMER		
32.04	1	WATER FILTRATION SYSTEM	EVERPURE	EV9337-26	-	-	KES	-		
36.00	2	BULK COKE	CHART INDUSTRIES	10667511	-	18	MANUFACTURER	SYRUP LINES BY CHART INDUSTRIES		
37.00	1	BULK CO2 - 750 LB.	CHART INDUSTRIES	CARBO-MAX 750	-	-	MANUFACTURER	-		
37.03	2	CO2 SAFETY SYSTEM	SEE RMKS	-	-	-	KES	SEE MECHANICAL DRAWINGS	INCLUDES DETECTOR AND (4) AV ALARMS	
38.00	1	CLEAN IN PLACE PANEL	CHART INDUSTRIES	10667431	-	18	MANUFACTURER	MOUNT 6" x 7"H. BOX @ 6"-0" AFF TO BOX CENTER LINE		
39.10	1	ICE MACHINE - 1400 LB.	MANITOWOC	IY149N3/B970	SA4027	12	KES	USE HEADMASTER KIT KG0221		
39.15	2	ICE MACHINE - 1000 LB.	MANITOWOC	IB1094YC	SA4027	12	KES	CONDENSER: IVO-1195-263		
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	JC-1395	SA4027	12	KES	-		
41.09	2	ICE MACHINE REMOTE CONDENSER - 1000 LB	MANITOWOC	JCV-1195-263	SA4027	12	KES	-		
43.22	1	OPTIMIZED ORDER ASSEMBLY TABLE	KES	OOAT 48X48	E152097	2	KES	-		
44.25	1	BREAKER PANEL 125 AMP 3 PHASE EQUIPMENT MOUNTED	KES	-	-	-	KES	-		
44.45	1	MEDIUM RISER SHELF - 31" TO 43"	KES	-	-	2	KES	-		
45.19	1	MODULAR BEVERAGE CABINET - 13"-0"	KES	-	-	2	KES	-		
46.00	1	CUP DISPENSER VERTICAL 3 CUP	KES	-	-	2	KES	-		
46.02	1	SYRUP BOTTLE RACK - (5) SYRUP PUMPS	PRONTO	-	-	2	KES	-		
47.06	1	CHILLED RAIL	KES	-	-	7	KES	LOCATED UNDER PREP TABLE OVERSHELF SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT. INSTALLED BY GC		
49.00	1	C02 FILL BOX - 6 1/2"W x 18"H	CHART INDUSTRIES	8512629	-	-	MANUFACTURER	-		
51.03	2	CUP LID HOLDER 3 HIGH S/S	KES	-	-	2	KES	-		
51.04	4	CUP LID HOLDER SINGLE STACK 8" HIGH	KES	-	-	2	KES	-		
51.05	1	FRY BAGGING STATION 36"	KES	FBO1-4	E99018	2	KES	-		
61.00	1	3-VAT LOV FRYER - ELECTRIC - F/F/F	FRYMASTER	BIELA14+BCSD	E44571	4	KES	-		
66.39	1	4-VAT LOV FRYER - ELECTRIC - S/S/S	FRYMASTER	BIELA4+4-BCSD	E44571	4	KES	-		
69.00	2	CAPTURE JET PLenum - FRYER	HALTON	CJF-F	MH27607	2	KES	ATTACH TO UNIVERSAL EXHAUST HOOD		
69.01	2	CAPTURE JET PLenum - GRILL	HALTON	CJF-G	MH27607	2	KES	ATTACH TO UNIVERSAL EXHAUST HOOD		
73.00	1	UNIVERSAL EXHAUST HOOD FULL-CLAM/4-VAT FRYER	KES	UH-50	MH12755	2	KES	-		
79.26	2	VENTLESS HOOD FOR COMBI OVEN	HALTON	COV	E325060	2	KES	-		
80.00	1	MECHANICAL CHASE	KES	9"x18" SCGL	E163328	2	KES	-		
80.08	1	MECHANICAL CHASE	KES	9"x32" SCGL	E163328	2	KES	-		
81.01	1	PRODUCT LANDING SHELF - SOLID TOP	KES	-	-	2	KES	-		
82.01	1	LANDING TABLE WITH POWER	KES	-	-	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	SAT7329	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-PLATE CLAMSHELL GRILL - ELECTRIC	GARLAND	ME-3PX	E28898	4	KES	-		
97.08	1	MEAT FREEZER - DOUBLE WID - HIGH	KES	HCMF30B-RH	SA6032 S	2	KES	AIR-COOLED, SELF-CONTAINED		
99.01	2	GRILL TOOL ORGANIZER - 43" HOOD	KES	-	-	2	KES	-		
10.01	1	OPTIMIZED BREAKFAST TABLE	KES	OBT	-	2	KES	-		
116.25	3	UNIVERSAL HOLDING CABINET - HIGH DENSITY - 2-SIDED - PIN & SLEEVE	PRINCE CASTLE	UHC6PT-22MCD	-	4	KES	ETL RATINGS: SAFETY = 3197509CHI-003, SANITATION = 3197509CHI-004		
117.26	1	UHC TABLE HUB & SPOKE - 2 SIDED - 51"D	KES	-	-	2	KES	-		
18.00	1	DING OVEN - PIN & SLEEVE	AMANA	MC23MPW2	E40456	4	KES	-		
118.05	2	QING OVEN - PIN & SLEEVE	ACP	MCMO24	-	4	KES	-		
122.27	1	NEXGEN UNIVERSAL RADIANT TOASTER - PIN	ANTUNES	HRT-5H	-	4	KES	-		
122.28	1	NEXT GEN. UNIVERSAL CONTACT TOASTER - PIN	ANTUNES	HCT-5H	-	4	KES	-		
123.32	1	HUB & SPOKE ELECTRIC COMMUNICATION UTILITY	KES	ECU	-	2	KES	-		
123.34	1	PREP TABLE - HD - 2-SIDED OPL - 38"D x 67 1/2" - PIN & SLEEVE W/REF.	KES	-	-	2	KES	-		
123.35	1	PREP TABLE - HD - 2-SIDED OPL - 38"D x 67 1/2" - PIN & SLEEVE W/REF.	KES	-	-	2	KES	-		
125.00	2	RAPID BUN STEAMER	PRINCE CASTLE	625-MFY	-	4	KES	-		
130.00	2	COMBI OVEN	MANITOWOC	MS510-2083LCMD-1	-	4	KES	-		
134.02	1	VEGETABLE SINK	KES	SK04-4	-	2	KES	-		
139.04	1	COMBI OVEN STAND - DOUBLE WIDE	KES	-	-	2	KES	-		
151.12	1	CLEAN DISHABLE - LEFT HAND - 28.23"	KES	SK-SPL	-	2	KES	-		
151.46	1	SOILED DISHABLE - RIGHT HAND - 90.5" WIDE	KES	SK-SPL	-	2	KES	-		
152.05	1	WAREWASHER	ECOLAB	OSR TSC	E5956					