

GENERAL NOTES

- 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.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER'S VENDORS REGARDING SCHEDULING ON SITE DURING CONSTRUCTION AND SEQUENCING OF THE WORK.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES, SIGNAGE, AND OTHER DEVICES REQUIRED.
- ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
- 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.
- 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.
- GENERAL CONTRACTOR TO PROVIDE FOUR (4) 30 YARD DUMPSTERS DURING McDONALD RETAIL MOVE-IN.
- GENERAL CONTRACTOR SHALL PROVIDE ONE SKILLED LABORER FOR ONE WEEK DURING McDONALD RETAIL MOVE-IN. (40 HOURS)
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SET-UP AND COORDINATION OF ALL THE UTILITY SERVICES FOR THE PROJECT.
- ALL EXTERIOR FLOOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF FOUNDATION UNLESS OTHERWISE NOTED. ALL INTERIOR FLOOR PLAN DIMENSIONS ARE TO FACE OF INTERIOR WALL BOARD UNLESS OTHERWISE NOTED.
- FINAL KEYING TO BE COORDINATED WITH McDONALD FACILITY MANAGER AND PAID FOR BY McDONALD.
- REFER TO "PROJECT MANUAL" FOR ALL OTHER INSTRUCTIONS & DIRECTIVES NOT SHOWN IN DRAWINGS. IF THERE IS A CONFLICT BETWEEN THE DRAWINGS AND PROJECT MANUAL, NOTIFY THE AREA CONSTRUCTION MANAGER FOR RESOLUTION.

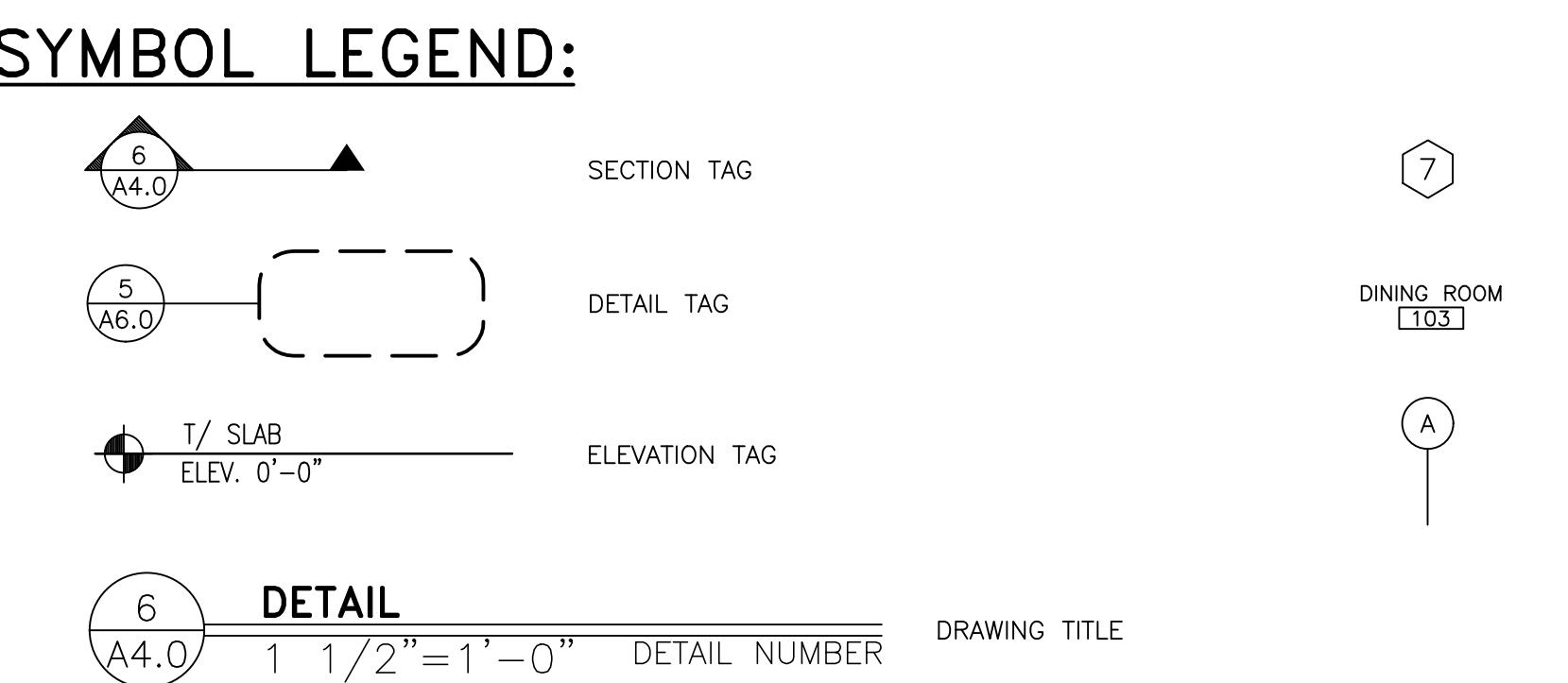
ABBREVIATIONS

GENERAL ABBREVIATIONS

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

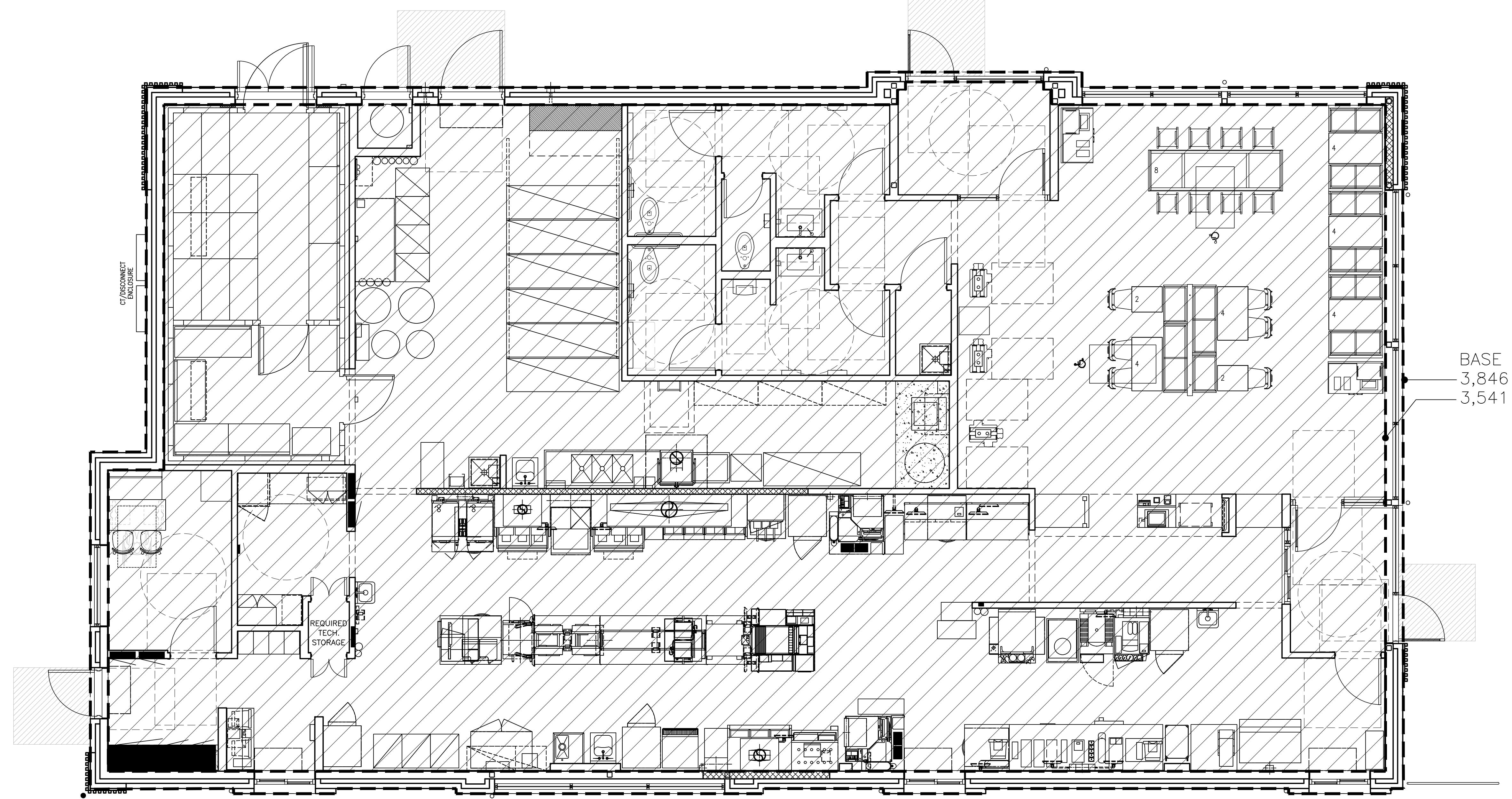
MCDONALD'S ABBREVIATIONS

AP	ALPOLIC METAL 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	MANAGER
D#	DECOR ELEMENT OR FINISH	MF	METAL FASCIA
DEVICE	DECOR ELEMENT OR FINISH	MS	MOP SINK
DMB	DIGITAL MENU BOARD	PB	PIPE BOLLARD
DS	DROP SOFFIT	PT	RMHC COIN COLLECTOR
D/T	DRIVE-THRU	RL	ROOF LADDER
FB	FILL BOX	ROOM	ROOM
F/C	FREEZER/COOLER	S	MCDONALD'S SIGNAGE
GC	GENERAL CONTRACTOR	SCHLUTER	SCHLUTER
HP	HIGH POINT	UN	ALUMINUM CANOPY underscore
KIOSK	KIOSK		
L	LIGHT FIXTURE		



DRAWN BY		PREPARED BY	
JAW		McDonald's USA, LLC	
STD ISSUE DATE 2025		DATE ISSUED 02/14/2025	
REVIEWED BY JAW		REVIEWED BY JAW	
DESCRIPTION 2025 STANDARD BUILDING - BB20 4584-WOOD/WOOD		DESCRIPTION WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD ROOF TRUSS/METAL/STONE/BRICK EXTERIOR FINISHES	
SHEET NO.	24-0220	SHEET NO.	GN1.1
TITLE	2025 STANDARD BUILDING - BB20	DESCRIPTION	WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD ROOF TRUSS/METAL/STONE/BRICK EXTERIOR FINISHES
DETAIL NUMBER	4584-WOOD/WOOD	DATE ISSUED	02/14/2025
SITE ID	NEC -20 & UNIVERSITY HILLS BLVD, LANCaster TEXAS	SITE ADDRESS	GENERAL NOTES
REV.		DATE	
BY			

REGISTERED ARCHITECT
JAMES WILLIAMS, AIA, LEED AP
State of Texas
FEB 26, 2025
Phone 817-765-3387
Email jwilliams@jawa.com



SQUARE FOOTAGE PLAN

1
R1.0

1/4"=1'-0"

McDonald's USA, LLC

PREPARED BY:

@2025 McDonald's USA, LLC

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Jenny Williams, Architect

Phone: 817-765-3387
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REGISTERED ARCHITECT
JANUARY WILLIAMS
STATE OF TEXAS
FEB 26
SHEET NO. 1 OF 1

JAW

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Printed on 02/14/2025

2025 STANDARD BUILDING - BB20

STD ISSUE DATE
02/2025

DRAWN BY:
JAW

REVIEWED BY:
JAW

DATE ISSUED
02/14/2025

DESCRIPTION
WOOD BEARING WALLS W/4" BRICK/STONE VENEER
WOOD ROOF TRUSS FRAMING
STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES

SITE ID
042-3651
SITE ADDRESS
-20 & UNIVERSITY HILLS BLVD, LANCaster, TEXAS

NEC

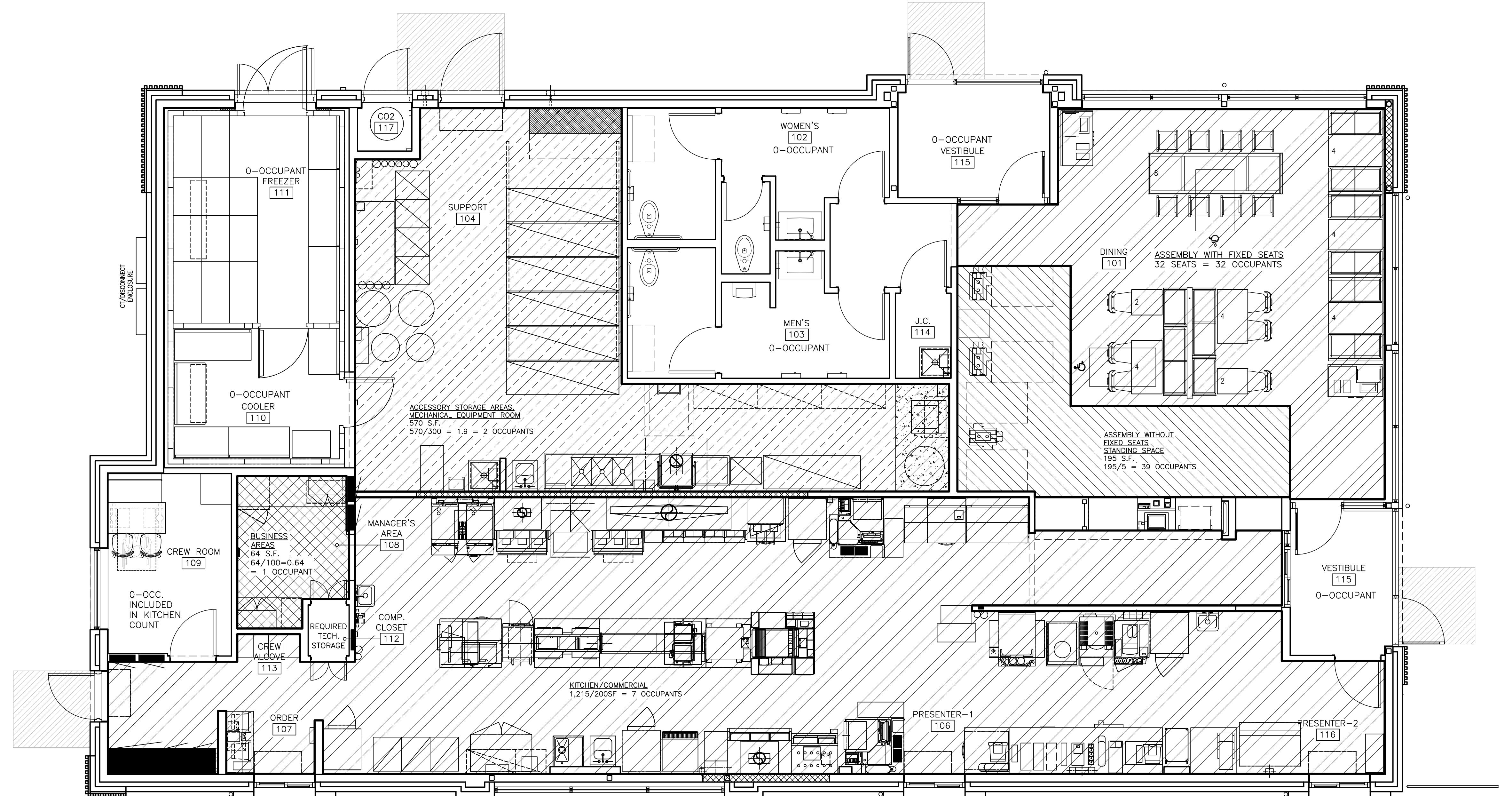
24-0220

JAWA

24-0220

R1.0

SQUARE FOOTAGE



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

OCCUPANCY ALLOWANCE:

2015 INTERNATIONAL BUILDING CODE

TABLE 1004.1.2
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANTS	
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS	570 SF	2	
ASSEMBLY WITH FIXED SEATS	SEE PLAN	-	32	
ASSEMBLY W/OUT FIXED SEATS STANDING SPACE	5 NET	195 SF	39	
BUSINESS AREAS	100 GROSS	64 SF	1	
KITCHENS, COMMERCIAL	200 GROSS	1,215	7	
TOTAL OCCUPANCY ALLOWANCE		81		

McDonald's USA, LLC

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JAW

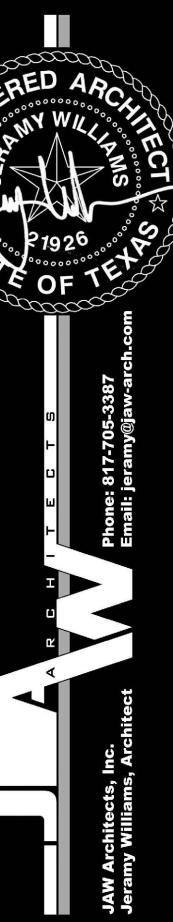
STD ISSUE DATE:
2025

REVIEWED BY:
JAW

DATE ISSUED:
02/14/2025

DESCRIPTION:
4584—WOOD/WOOD
WOOD BEARING WALLS W/4" BRICK/STONE VENEER
WOOD ROOF TRUSS FRAMING
STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES

SHEET NO.: R1.1
TITLE: 2025 STANDARD BUILDING — BB20
JAWA 24-0220
SITE ID: 042-3651
ADDRESS: -20 & UNIVERSITY HILLS BLVD, LANCASTER TEXAS
NEC



JAW

Jeremy Williams, Architect

Phone: 817-705-3387
Email: jwilliams@jawsaw.com

PREPARED BY:

JAW

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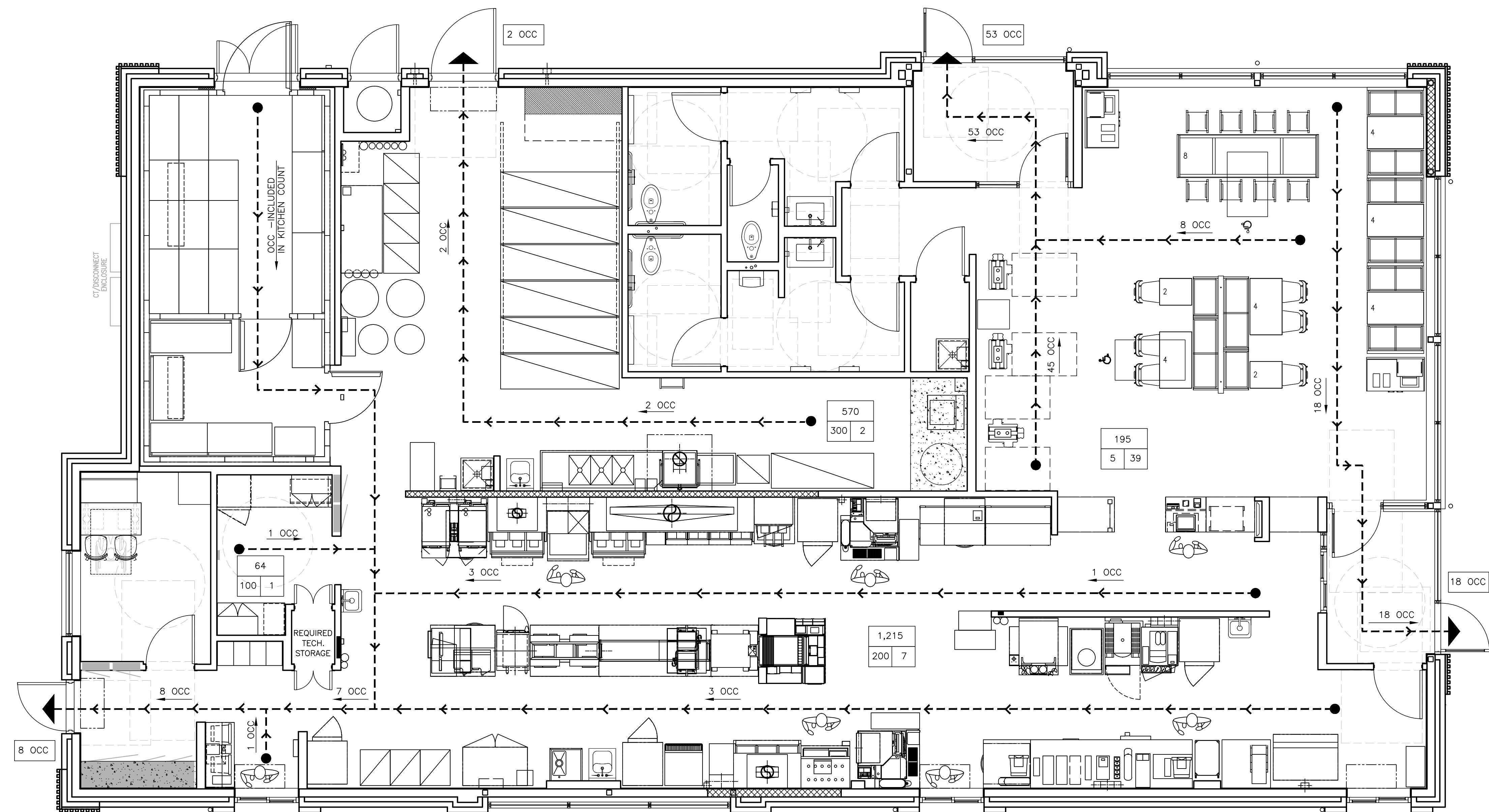
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BY:



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

OCCUPANCY ALLOWANCE:

2015 INTERNATIONAL BUILDING CODE

TABLE 1004.1.2
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

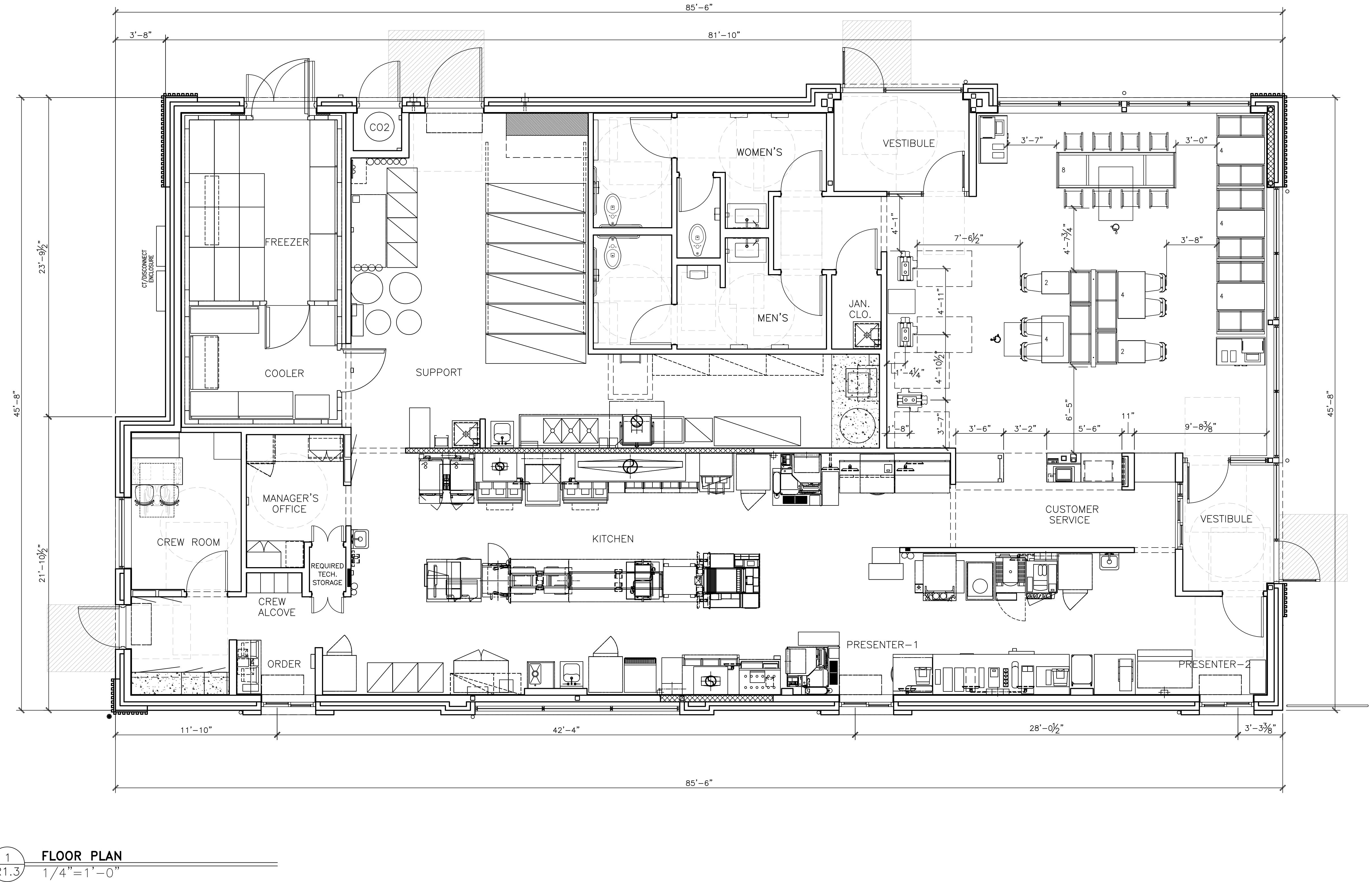
FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANTS
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS	570 SF	2
ASSEMBLY WITH FIXED SEATS	SEE PLAN	-	32
ASSEMBLY W/OUT FIXED SEATS STANDING SPACE	5 NET	195 SF	39
BUSINESS AREAS	100 GROSS	64 SF	1
KITCHENS, COMMERCIAL	200 GROSS	1,215	7
TOTAL OCCUPANCY ALLOWANCE			81

R1.2
EXTINGUISHING PLAN

SHEET NO.	TITLE	DRAWN BY
	2025 STANDARD BUILDING - BB20	JAW
	4584-WOOD/WOOD	STD ISSUE DATE 2025
	DESCRIPTION WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD ROOF TRUSS FRAMING STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES	REVIEWED BY JAW
	SITE ID D42-3651	DATE ISSUED 02/14/2025
	NEC ADDRESS I-20 & UNIVERSITY HILLS BLVD, LANCASTER TEXAS	BY

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REGISTERED ARCHITECT
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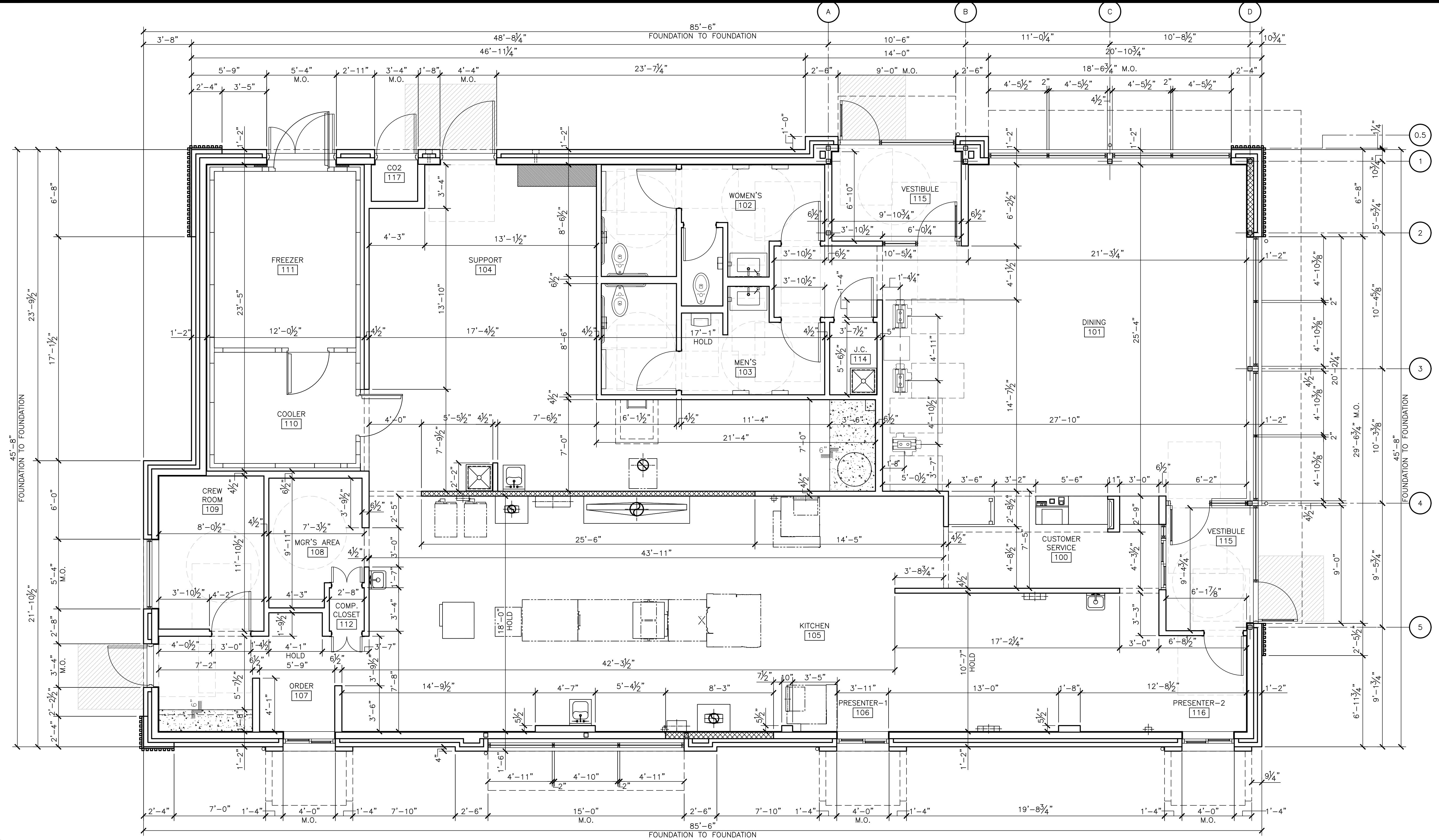
4584 - WW PLAN
3,846 GROSS SQ. FT. / 3,541 NET SQ. FT.
32 SEATS (2 ACCESSIBLE SEATS)

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

SHEET NO.	TITLE	DRAWN BY	PREPARED BY:
R1.3	2025 STANDARD BUILDING - BB20 4584-WOOD/WOOD	JAW	@2025 McDonald's USA, LLC
	STD ISSUE DATE	2025	McDonald's USA, LLC
	REVIEWED BY	JAW	These drawings and specifications are the confidential and proprietary
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	DESCRIPTION	JAW	Phone 817-765-3387
	WOOD BEARING WALLS W/4" BRICK/STONE VENEER	JAW Architects, Inc.	Email: jennywilliams@jawarchitect.com
	WOOD ROOF TRUSS FRAMING	Jenny Williams, Architect	
	STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES		
	SITE ADDRESS		
	NEC		
	042-3651		
	24-0220		
	SEATING PLAN		

JAWA 24-0220
SEATING PLAN

R1.3



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

KEY NOTES

- [C] ALUMINUM CANOPY SYSTEM ABOVE - SEE 4/A5.0 FOR NOTES - SEE ROOF PLAN FOR DIMENSIONS, SEE ELEVATION FOR COLORS
- [CG] G.C. TO PROVIDE 4"x4"x5'-0" HIGH STAINLESS STEEL CORNER GUARDS AT ALL EXPOSED LOCATIONS IN KITCHEN/SUPPORT AREA. CORNER GUARDS TO START AT FINISH FLOOR. ATTACH WITH WOOD SCREWS INTO WOOD BLOCKING. BULLNOSE COVE BASE WHERE TILE MEETS STAINLESS STEEL CORNER
- [CP] CONCRETE EQMT PAD - SEE STRUCTURAL
- [CT] WALL TILE: PER DECOR PORTFOLIO
SEE SHEET A3.1 AND A6.1 FOR FINISH INFORMATION.
- [CT] WALL TILE: CROSSVILLE - COLOR BY NUMBERS
COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND GROUT; MAPLE O2 PEWTER - JOINT TO BE $\frac{1}{8}$ " MAX.
USE THIS TILE WHEN HIGH LRV IS REQUIRED
COORDINATE WITH MCDONALD'S AREA CONSTRUCTION MANAGER
- [DO] DOWNSPOUT CONNECTED TO CANOPY SYSTEM. SEE ELEVATIONS.
COORDINATE CONNECTION WITH CIVIL.
- [DS] DROPPED SOFFIT ABOVE - SEE REFLECTED CEILING PLAN
- [D#] DECOR PORTFOLIO SPECIFIC ELEMENT - SEE FINISH SCHEDULE.

- [FB] CO2 FILL BOX (EQUIPMENT SCHEDULE ITEM 49.00)
- [FB] OPTIONAL BULK OIL FILL BOX (EQUIPMENT SCHEDULE ITEM 700.1B)
CONFIRM USE WITH MCDONALD'S AREA CONSTRUCTION MANAGER
- [FL] FLOOR LINE - CHANGE IN MATERIAL - SEE DECOR DRAWINGS
- [FP] FIBERGLASS REINFORCED PLASTIC (FRP) - PANOLAM, GRAY SMOOTH, CLASS A, .075. REFER TO ROOM FINISH SCHEDULE SHEET A6.1 FOR INSTALLATION LOCATIONS.
FOR ORDERING, CONTACT KIMBERLY LAWSON
Kimberly_Lawson@panolam.com 1-866-925-4377
- [LL] LEVEL LANDING @ EXT. DOOR W/ MAX. 2% RUNNING/CROSS SLOPE
 $\frac{5}{5}$ " AWAY FROM BUILDING
- [LW] SIZE OF LANDING
LATE-NIGHT WINDOW (OPTIONAL) BY READYACCESS, MANUAL OPEN/SELF CLOSE. SEE SHEET A3.1 FOR NOTES.
- [MS] MOP SINK - SEE DETAIL B/A6.1 AND PLUMBING DRAWINGS.
- [RL] ROOF ACCESS LADDER W/HATCH ABOVE SEE
STRUCTURAL FRAMING PLAN FOR LOCATING DIMENSIONS
- [AL] ALUMINUM BATTEN SYSTEM. REFERENCE DETAIL 16/A4.1
- [W#] EXTERIOR WINDOW ASSEMBLY - TEMPERED GLASS
COLOR: DARK BRONZE
SEE SHEET A6.0

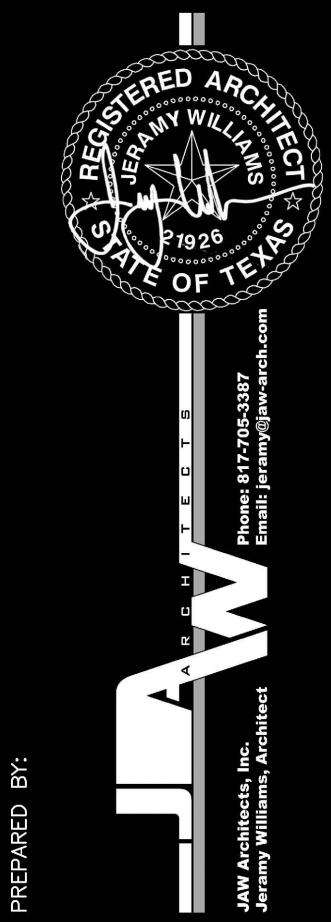
SYMBOL LEGEND

- [A] PARTITION TYPE TAG SEE 2/A1.1
- [X] KEY NOTE
- [7] DOOR TAG - SEE DOOR SCHEDULE ON A6.0
- [—] DRAFT STOPPING SEE 2/A1.2

GENERAL NOTES

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

SHEET NO.	A1.0	TITLE	2025 STANDARD BUILDING - BB20
		STD ISSUE DATE	2025
		DRAWN BY	JAW
		REV'D BY	JAW
		DATE ISSUED	02/14/2025
DESCRIPTION	WOOD BEARING WALLS W/4" BRICK/STONE VENEER STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES		
SITE ID	NEC -20 & UNIVERSITY HILLS BLD, LANCASTER TEXAS		
402-3651	JAWA 24-0220		

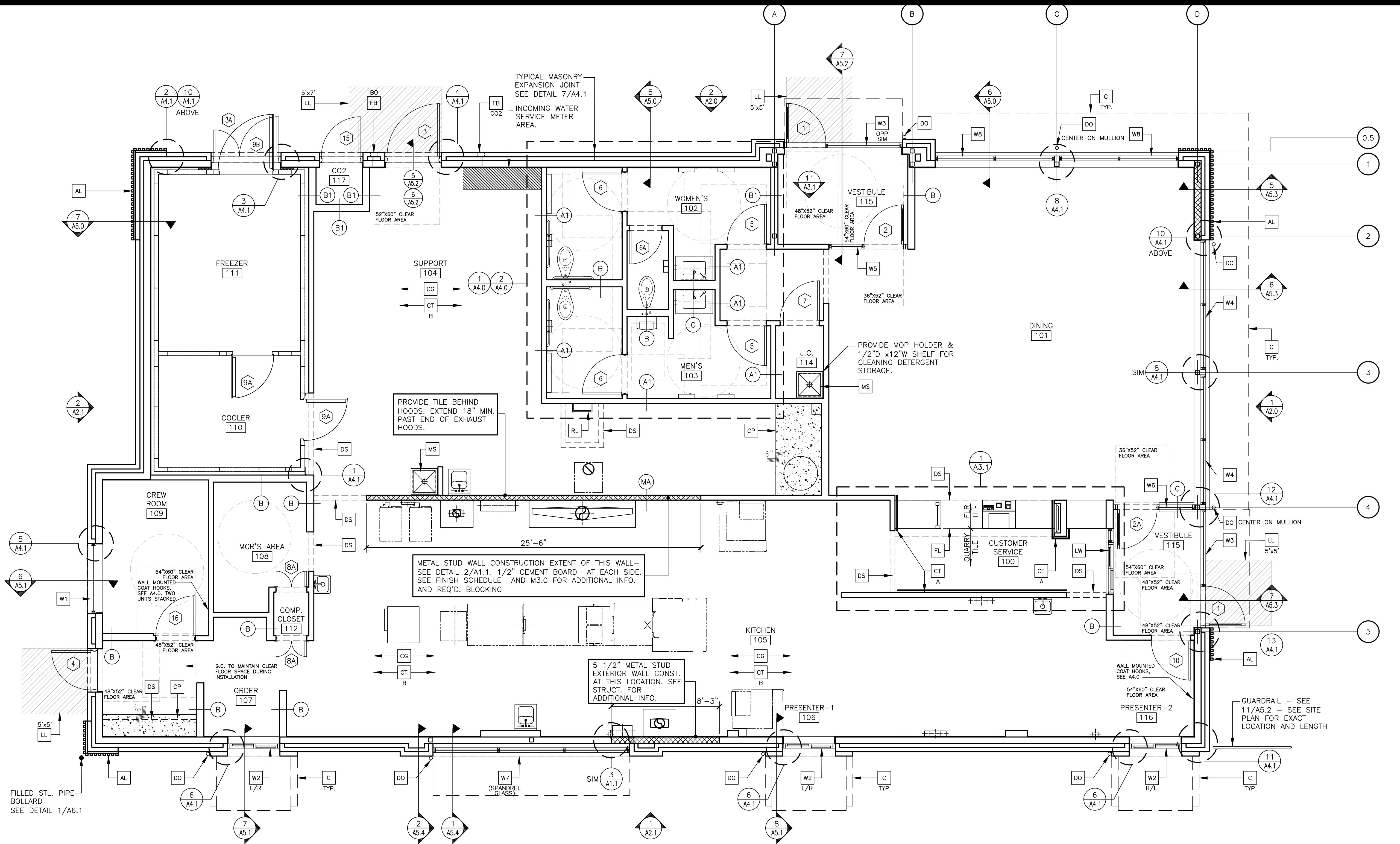


PREPARED BY:

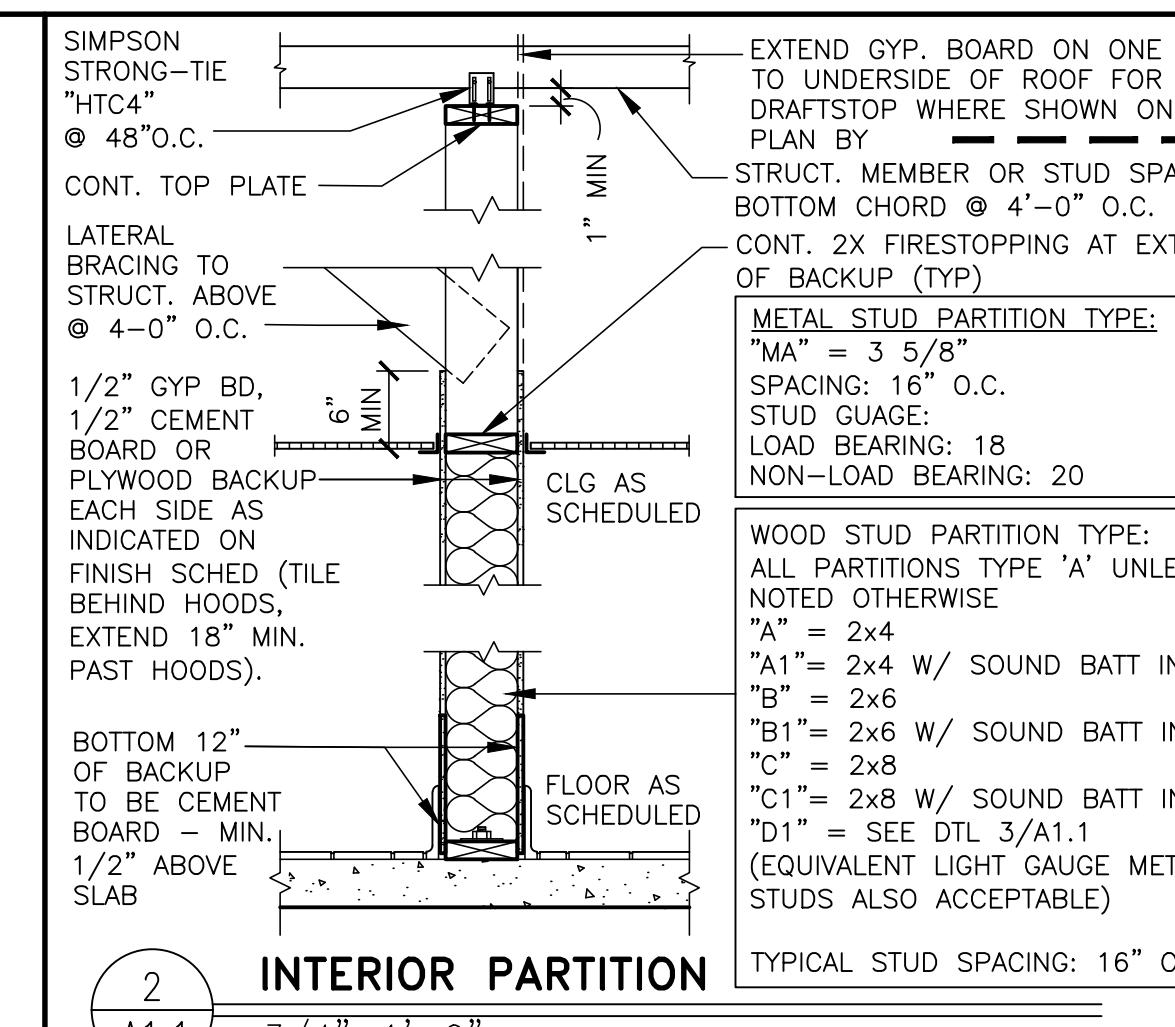
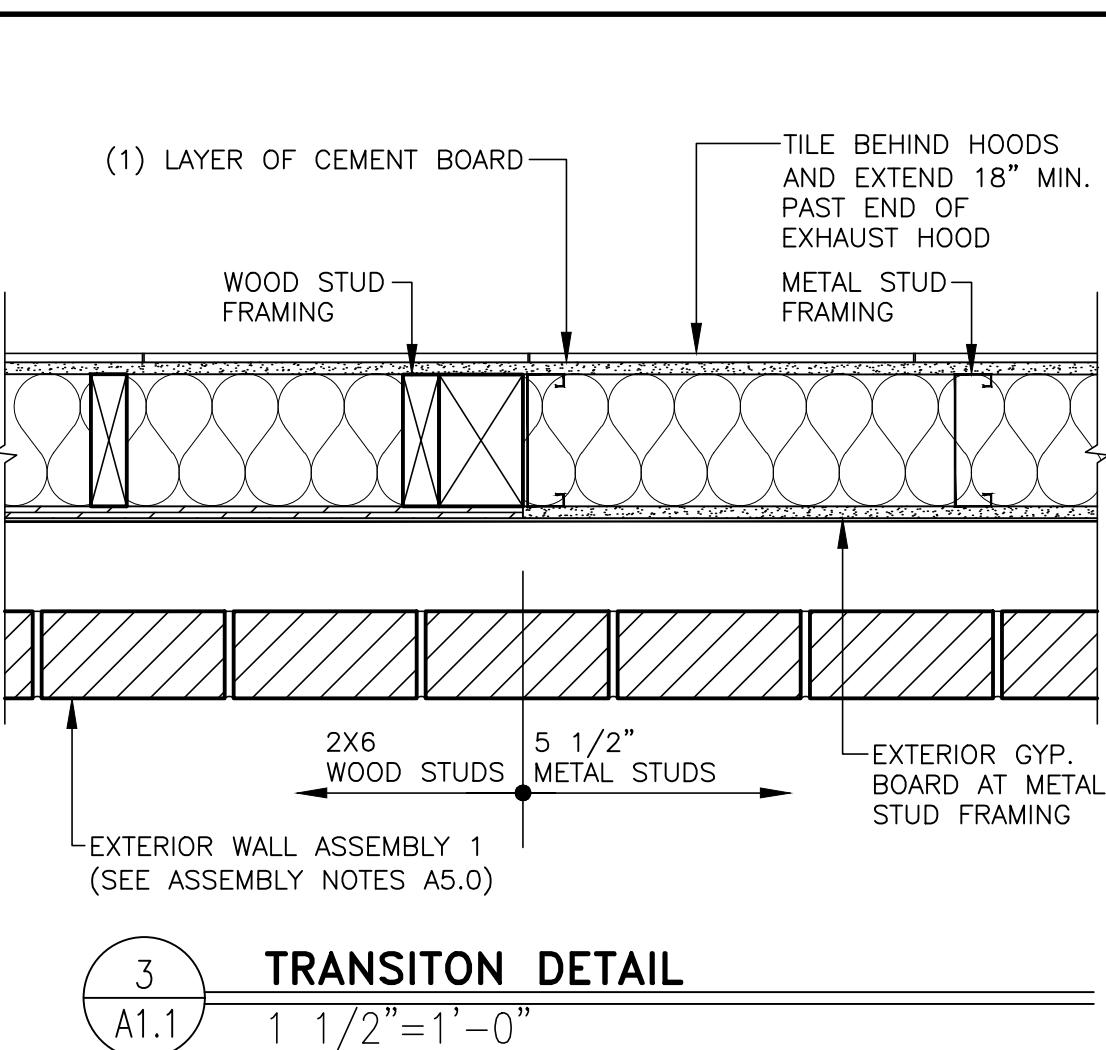
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DESCRIPTION	REV. DATE



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



KEY NOTES

- [C] ALUMINUM CANOPY SYSTEM ABOVE - SEE 4/A5.0 FOR NOTES - SEE ROOF PLAN FOR DIMENSIONS, SEE ELEVATION FOR COLORS
- [CG] G.C. TO PROVIDE 4"x4"x5"-0" HIGH STAINLESS STEEL CORNER GUARDS AT ALL EXPOSED LOCATIONS IN KITCHEN/SUPPORT AREA. CORNER GUARDS TO START AT FINISH FLOOR. ATTACH WITH WOOD SCREWS INTO WOOD BLOCKING BULLNOSE COVE BASE WHERE TILE MEETS STAINLESS STEEL CORNER
- [CP] CONCRETE EQMT PAD - SEE STRUCTURAL
- [CT] WALL TILE: PER DECOR PORTFOLIO SEE SHEET A3.1 AND A6.1 FOR FINISH INFORMATION.
- [CL] WALL TILE: CROSSVILLE - COLOR BY NUMBERS COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND GROUT: MAPEI 02 PEWTER - JOINT TO BE $\frac{1}{8}$ " MAX. USE THIS TILE WHEN HIGH LRV IS REQUIRED COORDINATE WITH MCDONALD'S AREA CONSTRUCTION MANAGER
- [DO] DOWNSPOUT CONNECTED TO CANOPY SYSTEM. SEE ELEVATIONS. COORDINATE CONNECTION WITH CIVIL.
- [DS] DROPPED SOFFIT ABOVE - SEE REFLECTED CEILING PLAN
- [D#] DECOR PORTFOLIO SPECIFIC ELEMENT - SEE FINISH SCHEDULE.

SYMBOL LEGEND

- | | | | |
|-----|--------------------------------------|-----|---------------------------|
| [A] | PARTITION TYPE TAG SEE 2/A1.1 | [X] | KEY NOTE |
| [7] | DOOR TAG - SEE DOOR SCHEDULE ON A6.0 | — | DRAFT STOPPING SEE 2/A1.2 |
- [FB] CO2 FILL BOX (EQUIPMENT SCHEDULE ITEM 49.00)
 - [CO2]
 - [FB] OPTIONAL BULK OIL FILL BOX (EQUIPMENT SCHEDULE ITEM 700.18)
 - [BO]
 - [FL] FLOOR LINE - CHANGE IN MATERIAL - SEE DECOR DRAWINGS
 - [FP] FIBERGLASS REINFORCED PLASTIC (FRP) - PANOLAM, GRAY SMOOTH, CLASS A, .075. REFER TO ROOM FINISH SCHEDULE SHEET A6.1 FOR INSTALLATION LOCATIONS. CONFIRM USE WITH MCDONALD'S AREA CONSTRUCTION MANAGER FOR ORDERING, CONTACT KIMBERLY LAWSON Kimberly_Lawson@panolam.com 1-866-925-4377
 - [CT]
 - [LL] LEVEL LANDING @ EXT. DOOR W/ MAX. 2% RUNNING/CROSS SLOPE AWAY FROM BUILDING
 - [5x5] SIZE OF LANDING
 - [LW] LATE-NIGHT WINDOW (OPTIONAL) BY READYACCESS, MANUAL OPEN/SELF CLOSE. SEE SHEET A3.1 FOR NOTES.
 - [MS] MOP SINK - SEE DETAIL 8/A6.1 AND PLUMBING DRAWINGS.
 - [RL] ROOF ACCESS LADDER W/HATCH ABOVE SEE STRUCTURAL FRAMING PLAN FOR LOCATING DIMENSIONS
 - [AL] ALUMINUM BATTE SYSTEM. REFERENCE DETAIL 16/A4.1
 - [W#] EXTERIOR WINDOW ASSEMBLY - TEMPERED GLASS COLOR: DARK BRONZE SEE SHEET A6.0

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

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PREPARED BY: **JAW**

STD ISSUE DATE: 2025

REVISED BY: **JAW**

DATE ISSUED: 02/14/2025

DRAWN BY: **JAW**

STD ISSUE DATE: 2025

REVIEWED BY: **JAW**

DATE ISSUED: 02/14/2025

SITE ADDRESS: 04-2-3651 NEC 20 & UNIVERSITY HILLS BLVD, LANCASTER, TEXAS

SHEET NO. JAWA 24-0220

TITLE 2025 STANDARD BUILDING - BB20

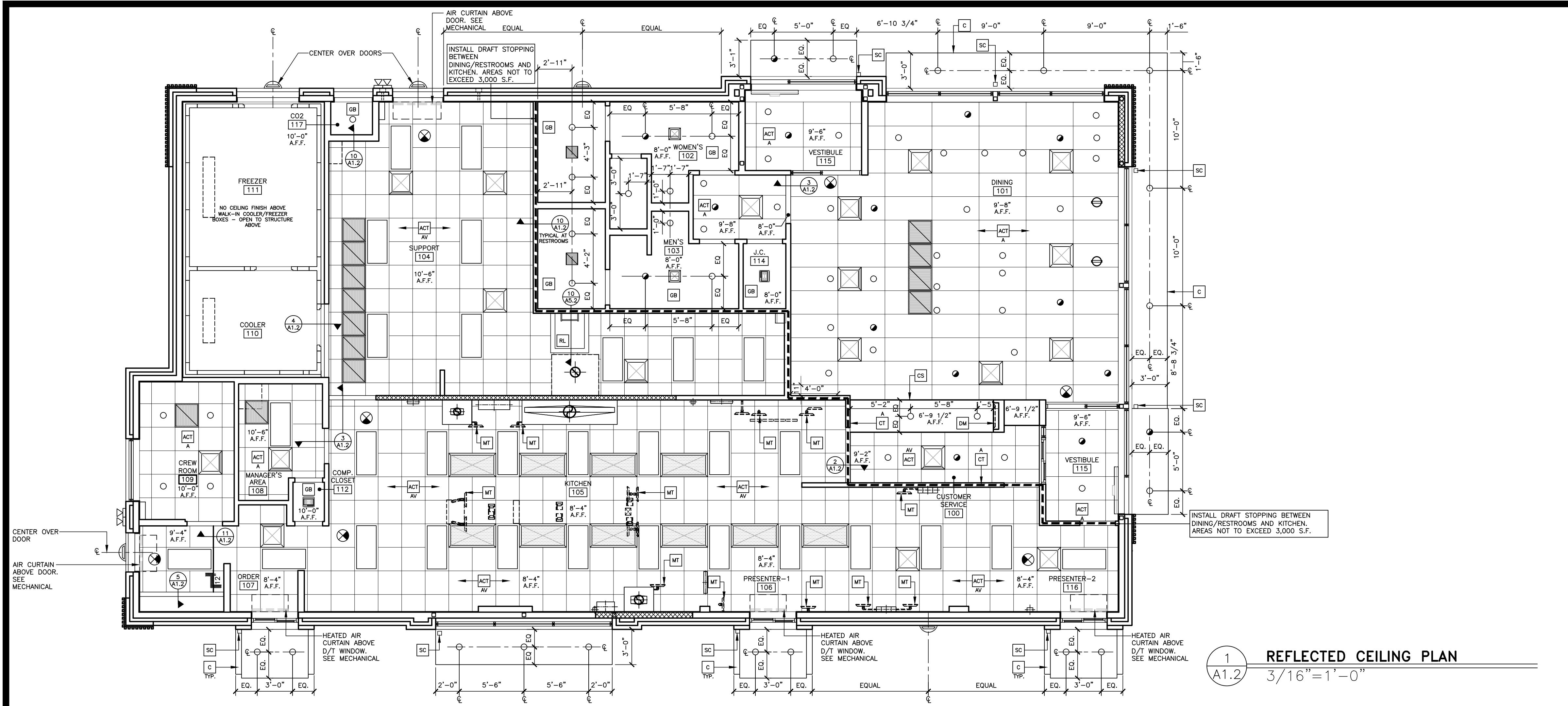
DESCRIPTION WOOD BEARING WALLS W/4' BRICK/STONE VENEER

WOOD ROOF TRUSS FRAMING

STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES

FLOOR PLAN

A1.1



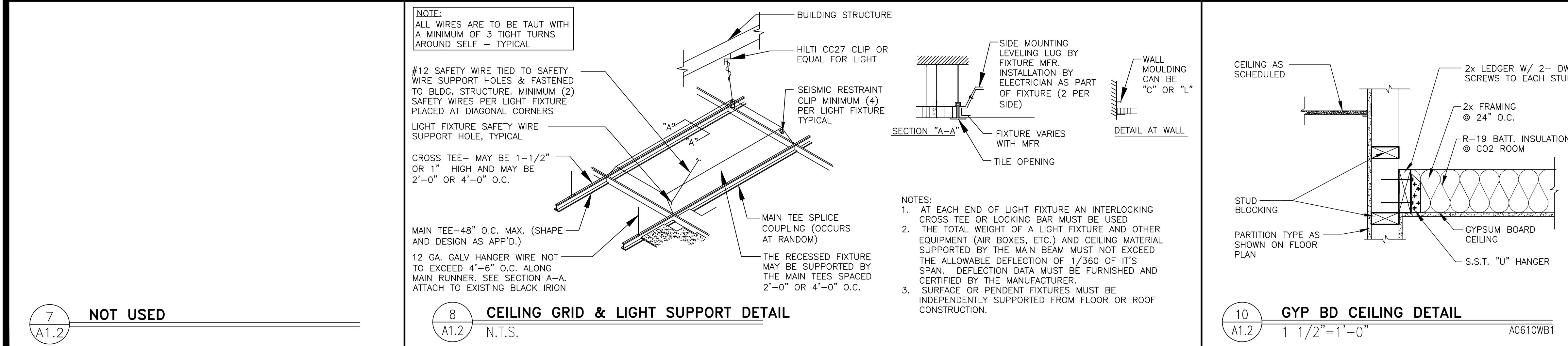
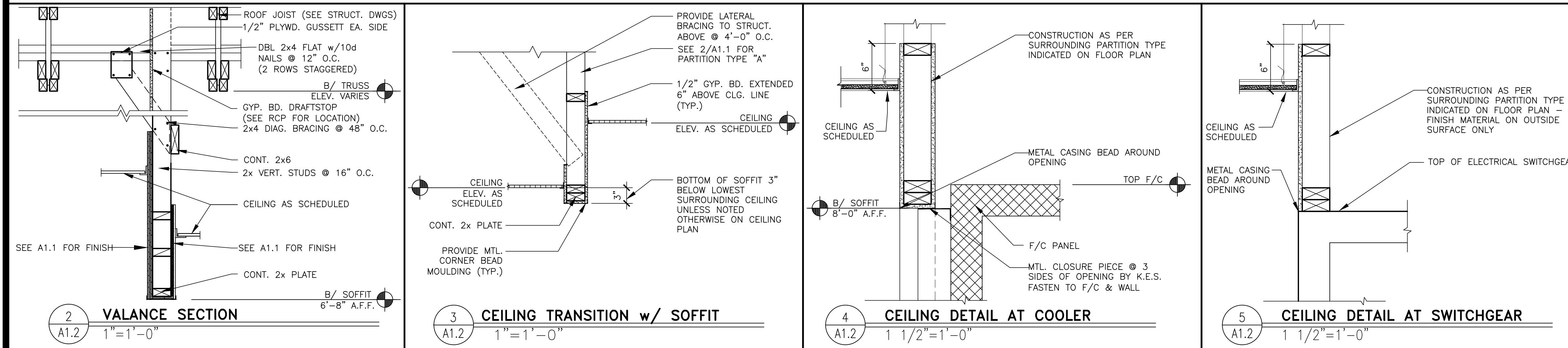
KEY NOTES

ACT A	ACOUSTICAL CEILING TILE - 24"x48". SEE FINISH SCHEDULE (24"x24" TO BE USED IN CREW ROOM AND MANAGERS OFFICE)
ACT AV	ACOUSTICAL CEILING TILE: VINYL FACED USG 24"x24" CLEAN ROOM CLIMA-PLUS UNPERFORATED, SMOOTH TEXTURE COLOR: WHITE GRID:USG 15/16" DX/DXL COLOR: WHITE
C	ALUMINUM CANOPY WITH INTEGRAL GUTTER AND SCUPPER - SEE 4/A5.0 FOR NOTES - SEE ROOF PLAN FOR DIMENSIONS - SEE ELEVATION FOR COLOR
CS	GC BUILT SOFFIT OVER FRONT COUNTER PROVIDE FINISHES PER DECOR DRAWINGS
CT A	WALL FINISH: PER DECOR PORTFOLIO SEE SHEET A3.1 AND A6.1 FOR FINISH INFORMATION

CT B	WALL TILE: CROSSVILLE - COLOR BY NUMBERS COLOR: AFTERNOON SPRAY, SIZE: 4"x12", PATTERN: STACKED BOND GROUT: MAPEI 02 PEWTER - JOINT TO BE $\frac{1}{16}$ " MAX. USE THIS TILE WHEN HIGH LRV IS REQUIRED COORDINATE WITH McDONALD'S AREA CONSTRUCTION MANAGER
DC	SUSPENDED DECORATIVE CEILING TREATMENT - SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION
DM	DIGITAL MERCHANDISER
DS-WH	DROPPED SOFFIT BOTTOM TO ALIGN WITH GYP BD AT EXTERIOR WINDOW HEAD MAY BE REPLACED BY ELEMENT BY DECOR SUPPLIER - CONFIRM WITH AREA CONSTRUCTION MANAGER
GB	GYPSUM BOARD CEILING FINISH. SEE DECOR.
MT	CEILING MOUNTED MONITOR: A) VERIFY MONITOR LOCATIONS WITH McDONALD'S PROJECT MANAGER PRIOR TO INSTALLATION. B) SEE DETAIL 6/A1.2 FOR INSTALLATION METHOD
RL	ROOF LADDER OPENING
SC	INTERGRAL GUTTER SCUPPER
DF	DECOR PORTFOLIO SPECIFIC ELEMENT - SEE FINISH SCHEDULE.

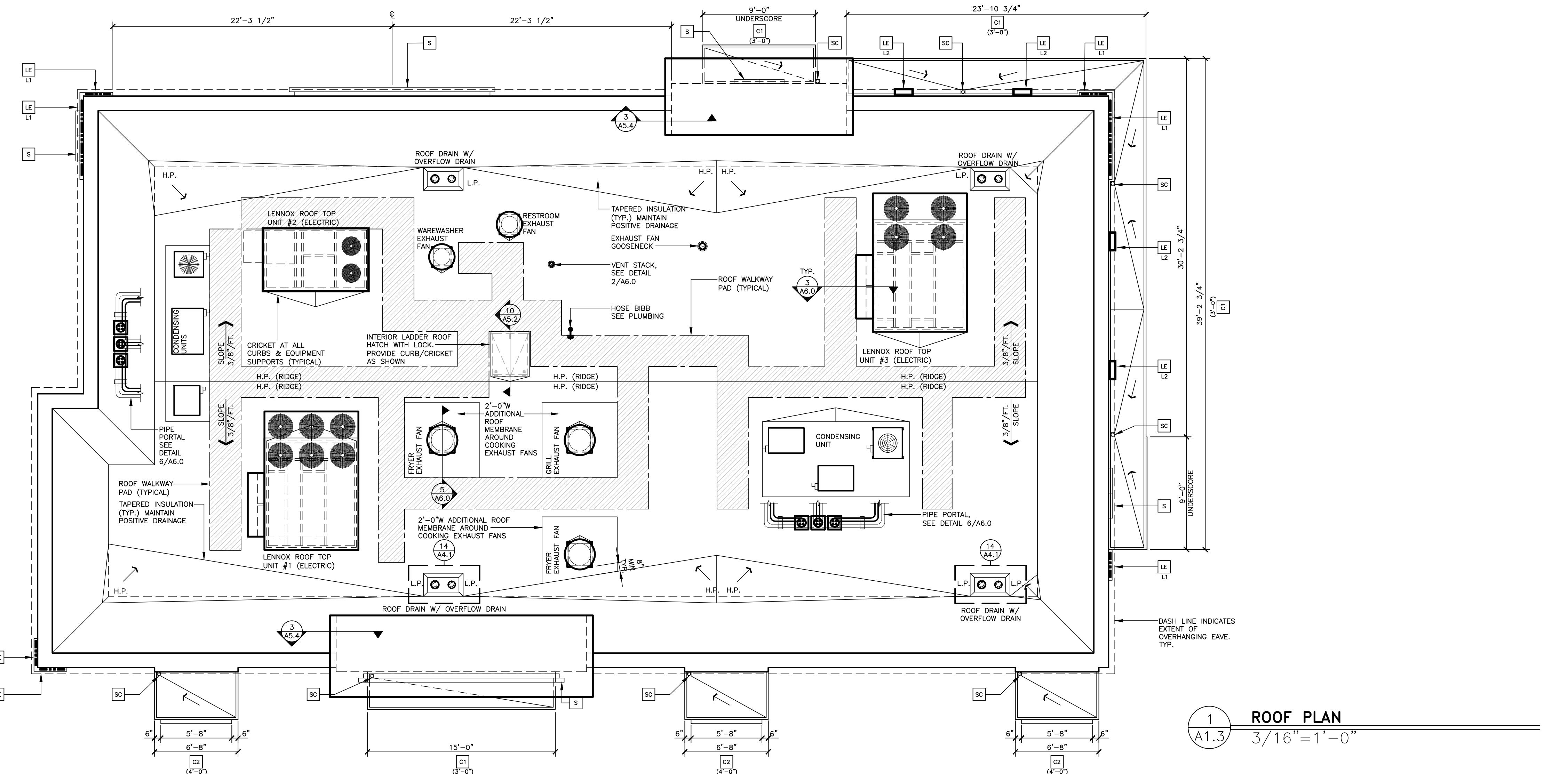
GENERAL NOTES

- SEE SHT A6.1 FOR CEILING FINISHES.
- 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



PREPARED BY:	
JAW McDonald's USA, LLC	
RECORDED BY: JAW	
DRAWN BY: JAW	
STD ISSUE DATE: 2025	
REVISED BY: JAW	
DATE ISSUED: 02/14/2025	
TITLE: 2025 STANDARD BUILDING - BB20	
DESCRIPTION: 4584-WOOD/WOOD	
WOOD BEARING WALLS W/4" BRICK/STONE VENEER	
WOOD ROOF TRUSS FRAMING	
STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES	
SITE ADDRESS: 24-0220	
SITE ID: 042-3651	
NEC: 20 & UNIVERSITY HILLS BLVD, LANCaster TEXAS	
SHEET NO. A1.2	
REFLECTED CLG. PLAN	

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LEGEND

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

KEY NOTES

- C1 ALUMINUM CANOPY SYSTEM (COLOR: SEE ELEVATIONS)
- C2 ALUMINUM CANOPY SYSTEM (COLOR: SEE ELEVATIONS)
- LE ACCENT LIGHTING – SEE ELEVATIONS & ELECTRICAL
- L1 = LED LIGHT:
- METAL FASCIA COLOR: SEE ELEVATIONS FOR COLOR
- S MCDONALD'S SIGNAGE BY OTHERS UNDER SEPARATE PERMIT (SEE ELEVATIONS)
- SC INTEGRAL GUTTER SCUPPER

ROOFING NOTES

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

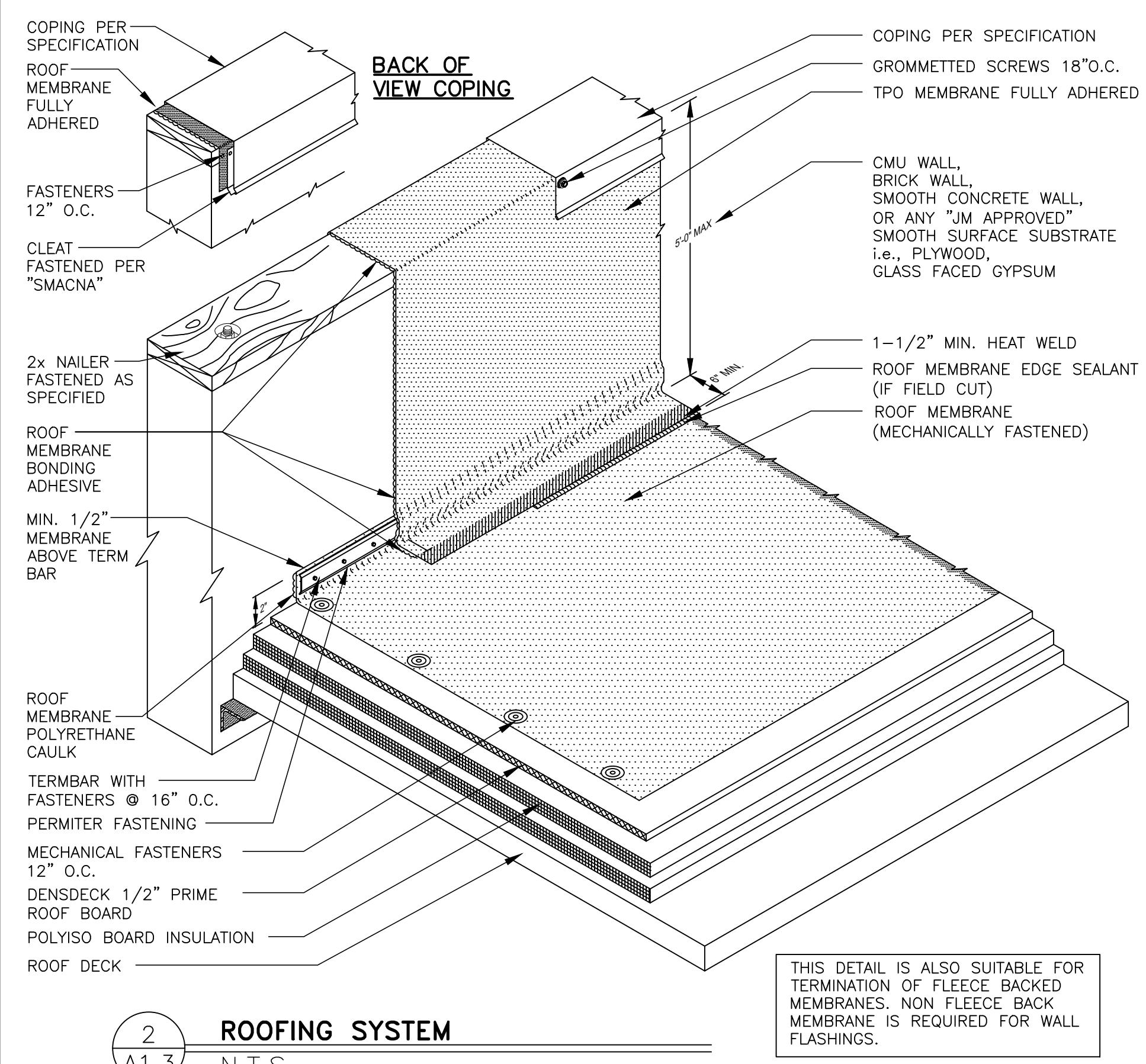
PREPARED BY:

JAW

McDonald's USA, LLC

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SHEET NO.	TITLE	DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED
A1.3	2025 STANDARD BUILDING - BB20 4584-WOOD/WOOD	JAW	2025	JAW	02/14/2025
	DESCRIPTION WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD ROOF TRUSS FRAMING STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES SITE ADDRESS 402-3651 NEC -20 & UNIVERSITY HILLS BLVD, LANCaster TEXAS				



ROOFING SYSTEM

- MANUFACTURERS AND PRODUCTS:
 - DURO-LAST PVC ROOFING SYSTEM
 - JM-PVC REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
NO SUBSTITUTIONS ALLOWED
- SPECIFIED ROOFING SYSTEMS (AS SHOWN):

HEAT-WELDABLE SINGLE-PLY 50 MIL PVC ROOFING SYSTEM, INSTALLED OVER RIGID INSULATION ON WOOD ROOF DECK HAVING A SLOPE OF 3/8"/FT. MATERIALS SHALL BE AS FOLLOWS:

 - SINGLE-PLY ROOFING SYSTEM AS MANUFACTURED BY MANUFACTURER LISTED ABOVE TO COMPLY WITH ASTM E 108 OR UL 790, ASTM D-6878, AND FMG I-90 FOR WIND UPLIFT.
 - FASTENERS: METAL FASTENERS AND PLATES AS PER MANUFACTURER.
 - ACCESSORIES: PRE-FABRICATED CURBS, FLASHING, CORNERS, TERMINATION BARS, PIPE FLASHING, VENT FLASHING ETC. AS PER MANUFACTURER.
 - PLEASE SEE SINGLE-PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
 - ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL. CONTACT MANUFACTURER FOR METAL OPTIONS TO BE INCLUDED WITHIN THE MANUFACTURER'S GUARANTEE.
 - ROOF MEMBRANE EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
- WALKWAYS:
 - 30" WIDE WALKWAY ROLL, HOT AIR WELDED TO MEMBRANE.
 - PROVIDE WALKWAY FROM ROOF LADDER EXIT TO ALL ROOF TOP EQUIPMENT AS PER ROOF PLAN ABOVE.
 - INSTALL WALKWAY ACCORDING TO WALKWAY PAD MANUFACTURER'S WRITTEN INSTRUCTION.
- RIGID INSULATION:

PROVIDE REQUIRED LAYERS OF POLYISOCYANURATE INSULATION W/ 1/2" "DENSEDECK" COVER BOARD TO MEET A MINIMUM CONTINUOUS R-30 VALUE — THICKNESS AS REQUIRED. PROVIDE POSITIVE SLOPE TO ALL ROOF DRAINS. SEE ROOF PLAN. PROVIDE TOP LAYER PROTECTION MATERIAL AS PER MANUFACTURER'S RECOMMENDATIONS. BOTTOM LAYER OF INSULATION TO HAVE INTEGRAL THERMAL BARRIER OR APPROVED ROOFING MANUFACTURER'S THERMAL UNDERLAYMENT SHEET. ASSEMBLY SHALL COMPLY WITH UL 1256 OR FMG 4450 AND ASTM C 1289, TYPE I OR II.
- TAPERED INSULATION:

PROVIDE TAPERED INSULATION AS REQUIRED FOR POSITIVE DRAINAGE TO ROOF DRAINS AS INDICATED PER ROOF PLAN ABOVE. $\frac{1}{4}$ " PER FOOT MIN. REQUIRED.
- EXHAUST FANS:

PROVIDE ADDITIONAL LAYER OF ROOF MEMBRANE AROUND EXHAUST FANS AS INDICATED PER ROOF PLAN ABOVE.

A1.3

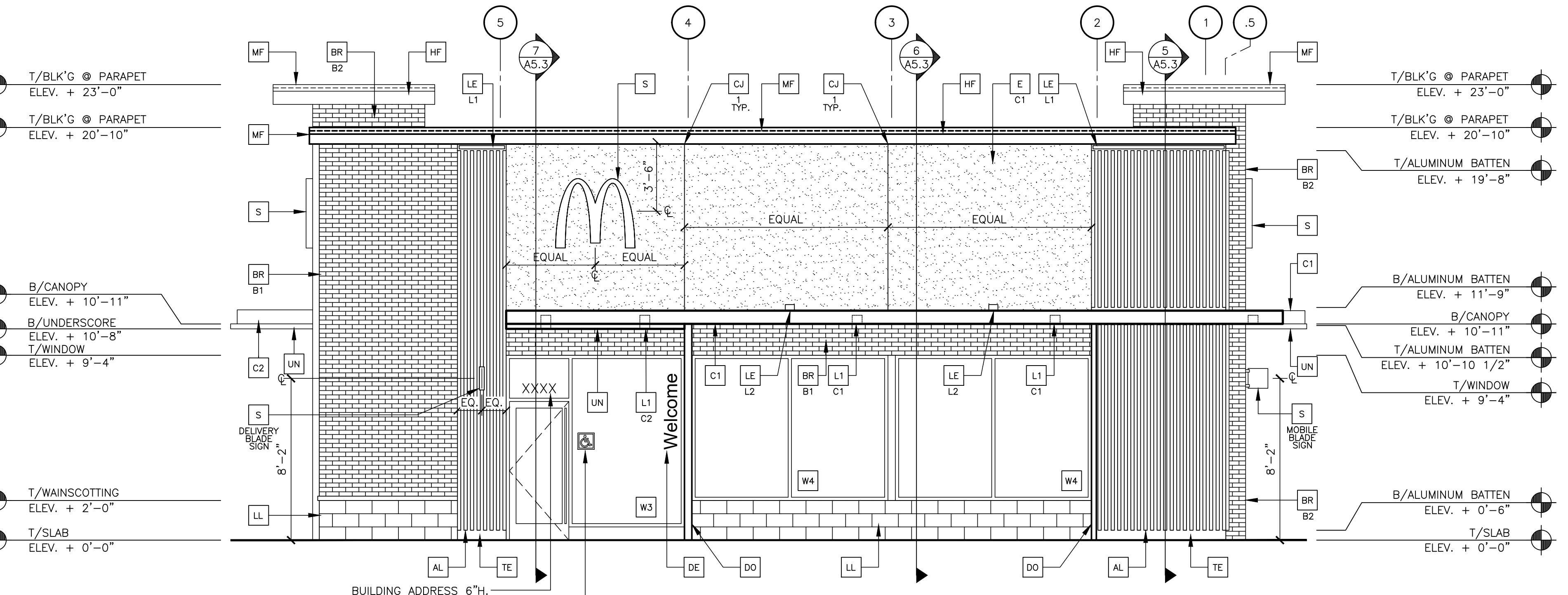
ROOF PLAN

Materials	Front Elevation		Non-DT Elevation		Drive-Thru Elevation		Rear Elevation		Totals	
	SF	%	SF	%	SF	%	SF	%	SF	%
Brick	113	15.74%	886	62.44%	967	59.14%	571	63.87%	2,537	54.37%
Limestone	70	9.75%	168	11.84%	239	14.62%	99	11.07%	576	12.34%
Stucco	350	48.75%	273	19.24%	72	4.40%	32	3.58%	727	15.58%
Metal Trim/Battens	185	25.77%	92	6.48%	357	21.83%	192	21.48%	826	17.70%
Totals (Excluding Glazing)	718	100%	1,419	100%	1,635	100%	894	100%	4,666	100%
Materials	SF	%	SF	%	SF	%	SF	%	SF	%
Glazing/Openings	237	24.82%	323	18.54%	194	10.61%	64	6.68%	818	14.92%
Total Façade	955	25%	1,742	19%	1,829	11%	958	7%	5,484	15%

BR - BRICK "ONYX"

LL - LIMESTONE "LINEN"

BR - BRICK "SILVERADO"



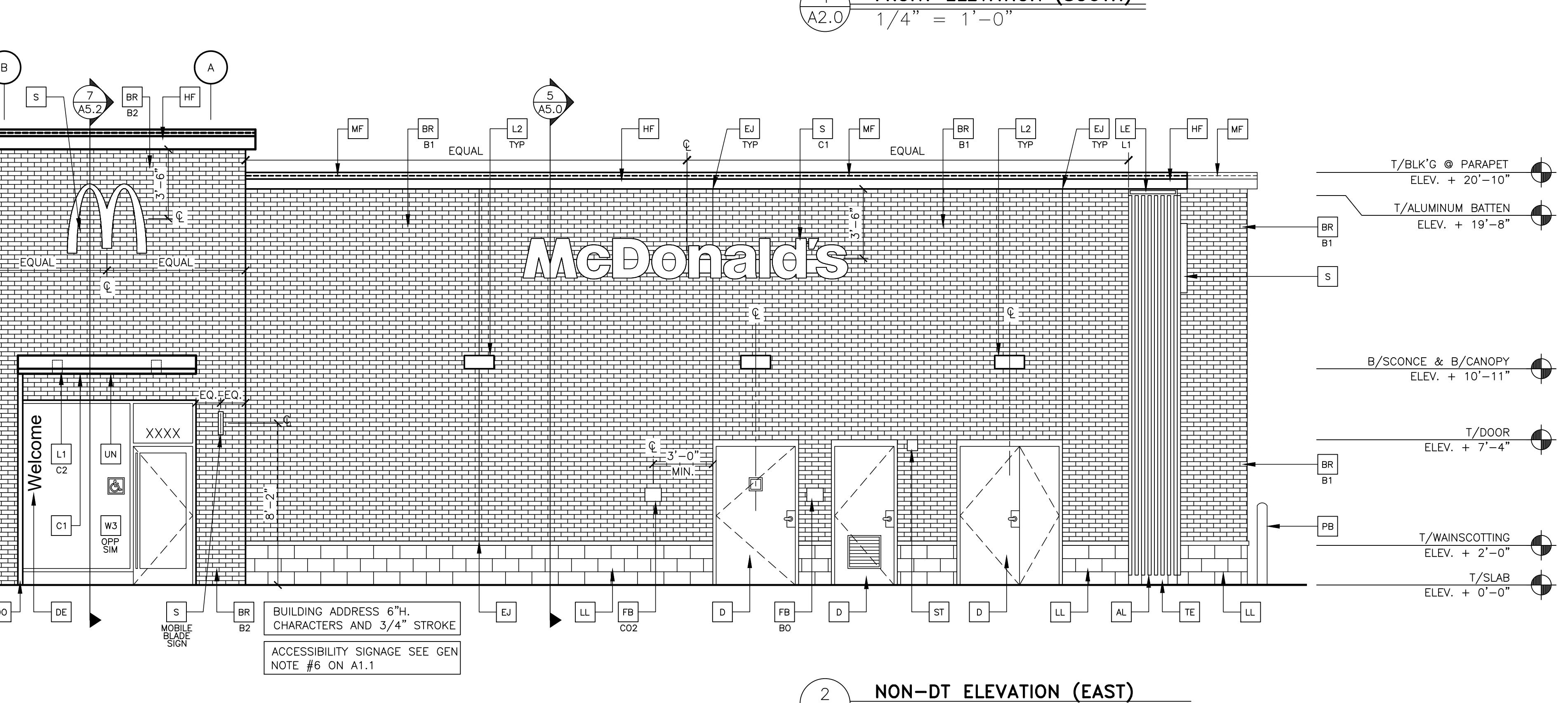
REGISTERED ARCHITECT
JIMMY WILLIAMS, S.A.I.D.
STATE OF TEXAS
Phone: 817-265-3387
Email: JimmyWilliamsArchitect@gmail.com

PREPARED BY:

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McDonald's USA, LLC

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TITLE	2025 STANDARD BUILDING - BB20
DESCRIPTION	4584-WOOD/WOOD
DRAWN BY	JAW
STD ISSUE DATE	2025
REVIEWED BY	JAW
DATE ISSUED	02/14/2025
SITE ADDRESS	NEC -20 & UNIVERSITY HILLS BLVD, LANCaster, TEXAS

KEY NOTES:

- [AL] ALUMINUM BATTEN SYSTEM
SIZE: 2" X 1" PR COLOR: WOOD GRAIN "EARL WALNUT"
SUBSTRATE: 1/2" EXTERIOR HIGH DENSITY OVERLAY (HDO) PLYWOOD, BB,
GROUP 1, HDO BOTH FACES, APA TRADEMARKED,
COURSE GRIT SAND SURFACES PRIOR TO PRIMING, PRIME AND PAINT BOTH
SIDES AND ALL EDGES PRIOR TO INSTALLATION,
SUBSTRATE COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- [AP] APOLIC METAL PANEL (COLOR: DON GRAY)
- [BR] MODULAR FACE BRICK COLOR:
B1 = "SILVERADO" SMOOTH BY HEBRON BRICK COMPANY
B2 = "ONYX" SMOOTH BY HEBRON BRICK COMPANY
(GROUT TO MATCH BRICK COLOR AS MUCH AS POSSIBLE)
- [C1] ALUMINUM CANOPY SYSTEM
COLOR: WHITE
- [C2] ALUMINUM CANOPY SYSTEM
COLOR: RAL 7022
- [CU] CONTROL JOINT
1-TYPE: 1 = STUCCO
- [D] HOLLOW METAL DOOR
PAINT: "FAIRVIEW TAPE" HC-85 BY BENJAMIN MOORE
- [DE] DECAL BY GRAPHICS SUPPLIER
SUPPLIERS:
VOMELA (865) 330-7337, ann.bowen@vomela.com
GFX INTERNATIONAL (847) 543-4600, mcdonaldsdecor@gfxi.com
- [DO] 3" DOWNSPOUT BY CANOPY SYSTEM MANUFACTURER
COLOR: RAL 7022
- [E] 7/8" 3-COAT STUCCO SYSTEM, REF WALL ASSEMBLY NOTES
COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- [EJ] EXPANSION JOINT, SEE DETAIL 7/A4.1
- [FB] CO2 — CO2 = BULK CO2 FILL BOX (EOPM SCHEDULE ITEM 49.00)
BO = BULK OIL FILL BOX (EOPM SCHEDULE ITEM 700.18)
- [GR] GUARD RAIL - SEE SITE PLAN FOR EXACT LOCATION AND LENGTH
USE STAINLESS STEEL OR GALVANIZED STEEL
- [HF] JAMES HARDIE FASCIA BOARD & VENTED SOFFIT
PAINT TO MATCH RAL 7022
- [L1] RECESSED DOWN LIGHT FIXTURE - SEE ELECTRICAL
C1-COLOR:
C1= WHITE OR C2= GOLD
- [L2] RADIAL SCONCE LIGHT FIXTURE - SEE ELECTRICAL
COLOR: PLATINUM SILVER
- [LE] ACCENT LIGHTING - SEE ELECTRICAL
L1= LED LIGHT:
L1 = SLIM LED (DOWN ONLY)
L2 = UP ONLY FLOOD FIXTURE
- [L3] NATURAL LIMESTONE BY SALADO LIMESTONE
(ARCHITECTURAL CUT) RUNNING BOND SIZE: 8"X16"X4"
COLOR: LINEN FINISH: BRUSHED
- [L4] LIMESTONE TO HAVE 1/4" RAKED MORTAR JOINTS
(MORTAR COLORS TO BE LIGHT GRAY/IVORY)
SUBMIT TO ARCHITECT FOR APPROVAL
- [MF] METAL FASCIA - PRE-FAB ANCHOR-TITE FASCIA
COLOR: RAL 7022
- [PT] (RMHC) COIN COLLECTOR MODEL: #WPT STD
CALL 1-888-743-7435 TO ORDER
- [PB] PIPE BOLLARD - PAINTED YELLOW
- [RO] ROOF DRAIN OVERFLOW PIPE PAINT TO MATCH SURROUNDING MATERIAL
- [S] McDONALD'S SIGNAGE BY OTHERS - UNDER SEPARATE PERMIT.
- [C1] COLOR:
C1= WEATHERED ZINC RACEWAY
C2= RAL 7022 RACEWAY
- [ST] CO2 STROBE/ALARM. SEE MECHANICAL DRAWINGS
FOR SPECIFICATION.
- [TE] TRU EXTERIOR 1"X6" TRIM, PAINTED ON SITE
COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- [UN] METAL underscore
COLOR: GOLD
- [W1] EXTERIOR WINDOW ASSEMBLY - TEMPERED GLASS
COLOR: DARK BRONZE SEE SHEET A3.0
(SPANDREL)-OPAQUE TEMP. SPANDREL GLASS
- [W2] DRIVE-THRU DOOR BY READY ACCESS
MODEL: 600 SERIES, 36" SERVICE HEIGHT WITH TRANSOM, MANUAL
XX OPEN: ELECTRIC RELEASE
COLOR: DEEP BRONZE
SLIDE DIRECTION: RL = RIGHT TO LEFT
LR = LEFT TO RIGHT

McDonald's

BUILDING MATERIAL CALCULATIONS BUILDING

Materials	Front Elevation		Non-DT Elevation		Drive-Thru Elevation		Rear Elevation		Totals	
	SF	%	SF	%	SF	%	SF	%	SF	%
Brick	113	15.74%	886	62.44%	967	59.14%	571	63.87%	2,537	54.37%
Limestone	70	9.75%	168	11.84%	239	14.62%	99	11.07%	576	12.34%
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BR - BRICK "ONYX" **LL - LIMESTONE "LINEN"** **BR - BRICK "SILVERADO"**

CN - ALUM CANOPY WHITE
UN - UNDERScore YELLOW

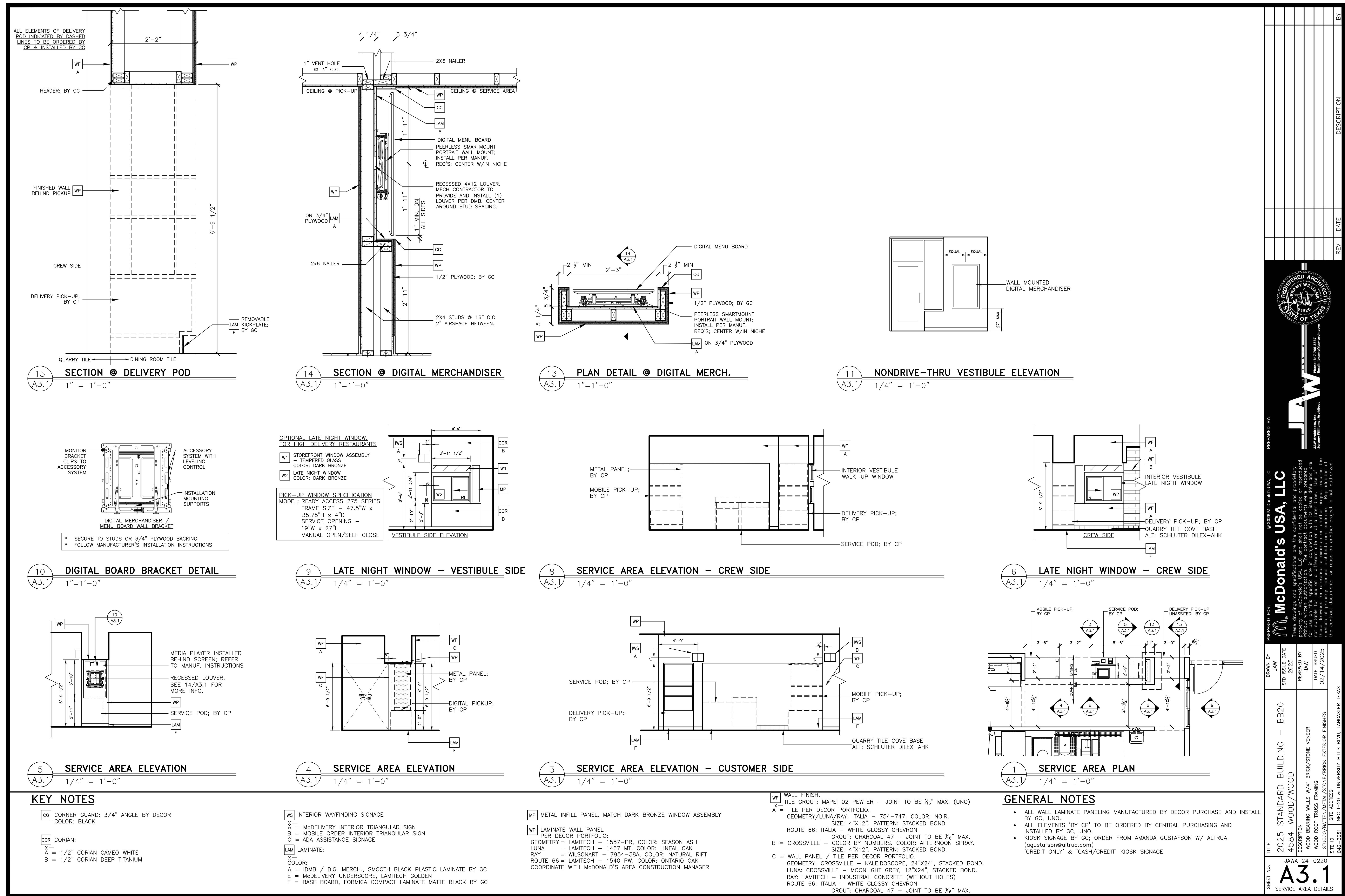
AL - ALUMINUM BATTENS

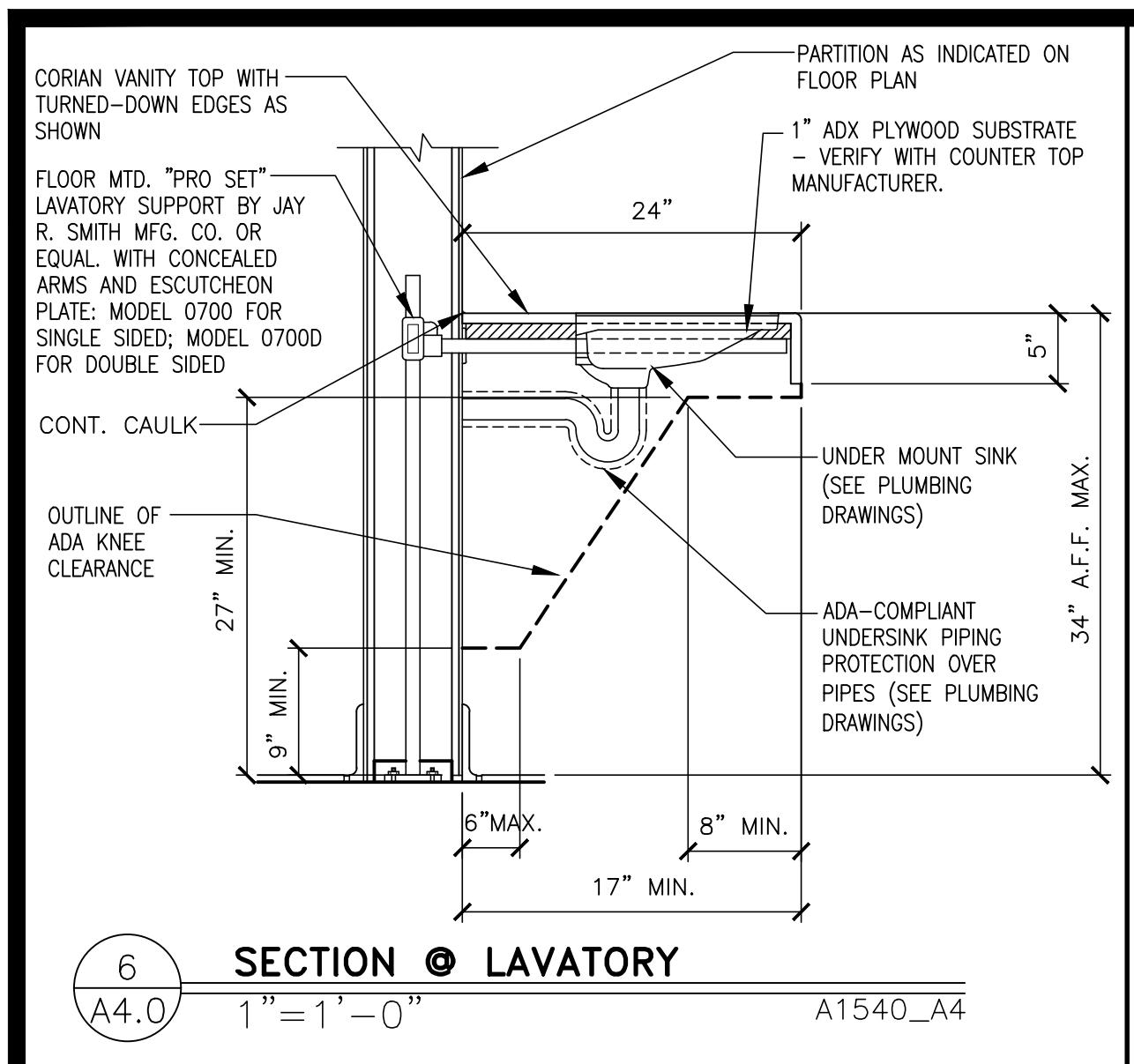
AP - APOLIC METAL PANELS

KEY NOTES:

- AL** ALUMINUM BATTEN SYSTEM
SIZE: 2" X 1/2" PR COLOR: WOOD GRAIN "EARL WALNUT"
SUBSTRATE: 1/2" EXTERIOR HIGH DENSITY OVERLAY (HDO) PLYWOOD, BB,
GROUP 1, HDO BOTH SIDES, APA TRADEMARKED.
COURSE GRIT SAND SURFACES PRIOR TO PRIMING, PRIME AND PAINT BOTH
SIDES AND ALL EDGES PRIOR TO INSTALLATION.
SUBSTRATE COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- AP** APOLIC METAL PANEL (COLOR: DON GRAY)
- BR** MODULAR FACE BRICK COLOR:
B1 = "SILVERADO" SMOOTH BY HEBRON BRICK COMPANY
B2 = "ONYX" SMOOTH BY HEBRON BRICK COMPANY
(GROUT TO MATCH BRICK COLOR AS MUCH AS POSSIBLE)
- C1** ALUMINUM CANOPY SYSTEM
COLOR: WHITE
- C2** ALUMINUM CANOPY SYSTEM
COLOR: RAL 7022
- CO** CONTROL JOINT
1-TYPE: 1 = STUCCO
- D** HOLLOW METAL DOOR
- DE** DECAL BY GRAPHICS SUPPLIER
- DO** 3" DOWNSPOUT BY CANOPY SYSTEM MANUFACTURER
COLOR: RAL 7022
- E** 7/8" 3-COAT STUCCO SYSTEM, REF WALL ASSEMBLY NOTES
COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- EJ** EXPANSION JOINT, SEE DETAIL 7/A4.1
- FB** CO2 = BULK CO2 FILL BOX (EOPM SCHEDULE ITEM 49.00)
BO = BULK OIL FILL BOX (EOPM SCHEDULE ITEM 700.18)
- GR** GUARD RAIL - SEE SITE PLAN FOR EXACT LOCATION AND LENGTH
USE STAINLESS STEEL OR GALVANIZED STEEL
- HF** JAMES HARDIE FASCIA BOARD & VENTED SOFFIT
PAINT TO MATCH RAL 7022
- LI** RECESSED DOWN LIGHT FIXTURE - SEE ELECTRICAL
C1-COLOR: C1 = WHITE OR C2 = GOLD
- MF** METAL FASCIA - PRE-FAB ANCHOR-TITE FASCIA
COLOR: RAL 7022
- PT** (RMHC) COIN COLLECTOR MODEL: #WPT STD
CALL 1-888-743-7435 TO ORDER
- PB** PIPE BOLLARD - PAINTED YELLOW
- LE** ACCENT LIGHTING - SEE ELECTRICAL
L1 = SLIM LED (DOWN ONLY)
L2 = UP ONLY FLOOD FIXTURE
- LL** NATURAL LIMESTONE BY SALADO LIMESTONE
(ARCHITECTURAL CUT) RUNNING BOND SIZE: 8"X16"X4"
COLOR: LINEN FINISH: BRUSHED
- RO** ROOF DRAIN OVERFLOW PIPE PAINT TO MATCH SURROUNDING MATERIAL
- S** McDONALD'S SIGNAGE BY OTHERS - UNDER SEPARATE PERMIT.
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FOR SPECIFICATION.
- TE** TRU EXTERIOR 1"X6" TRIM, PAINTED ON SITE
COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS
- UN** METAL UNDERSCORE
COLOR: GOLD
- W** EXTERIOR WINDOW ASSEMBLY - TEMPERED GLASS
COLOR: DARK BRONZE SEE SHEET A8.0
(SPANDREL)-OPAQUE TEMP. SPANDREL GLASS
- W2** DRIVE-THRU SIGN BY READY ACCESS
C1= WEATHERED ZINC RACEWAY
C2= RAL 7022 RACEWAY
- XX** OPEN: ELECTRIC RELEASE
SLIDE DIRECTION: RL = RIGHT TO LEFT
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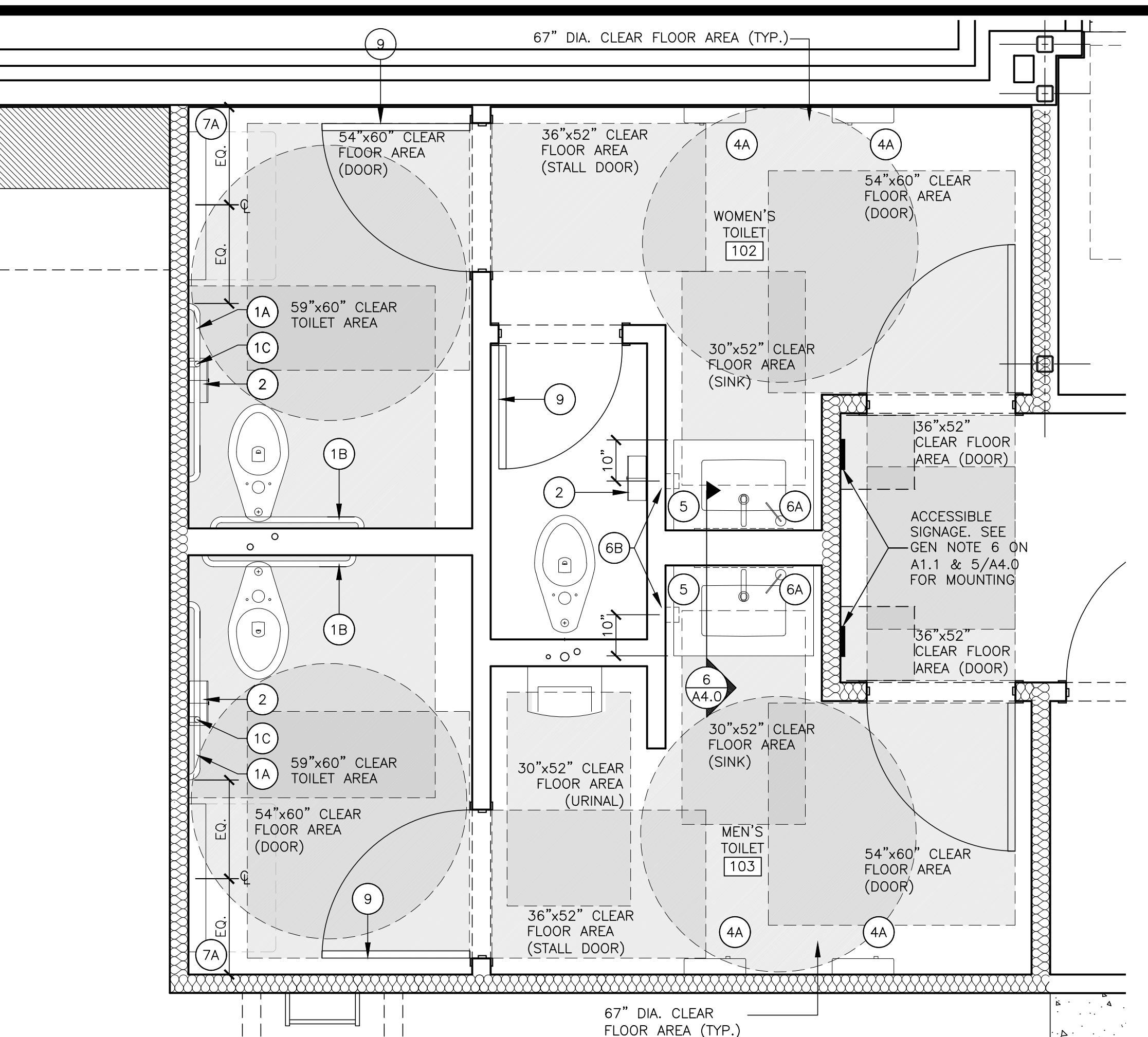
A2.1





SECTION @ LAVATORY

A4.0 1"-1'-0" A1540_A4



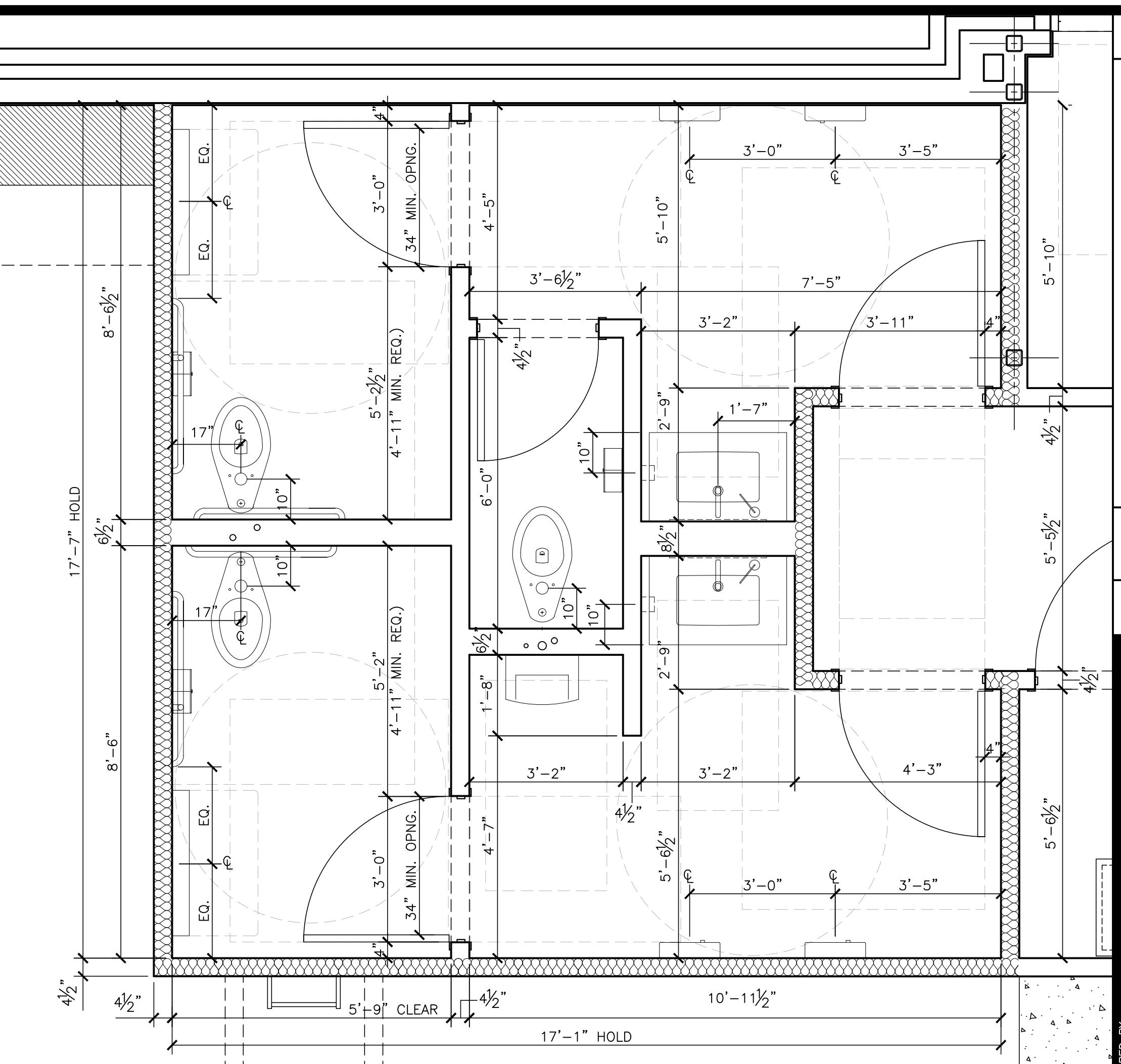
ENLARGED RESTROOM PLAN - NOTED

A4.0 1/2" = 1'-0"

NOTES

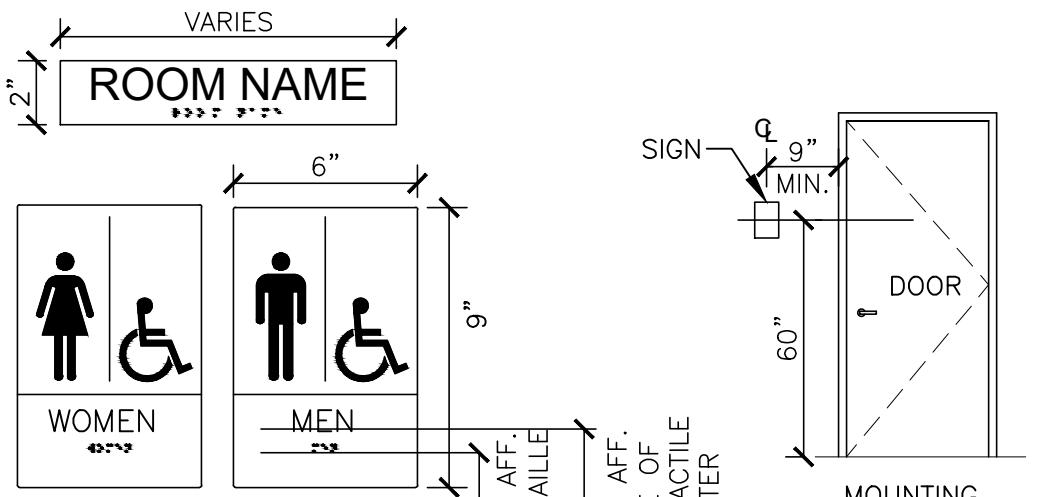
- ALL DIMENSIONS SHOWN ARE TAKEN TO CEMENT BD.
- SFF SHEET A1.1 FOR PARTITION TYPES.
- SEE SHEETS A6.0 & A6.1 FOR DOOR AND FINISH SCHEDULES.
- SEE 4/A4.0 FOR FIXTURE MOUNTING HEIGHTS

(X) = RESTROOM ACCESSORY - SEE 3/A4.0



ENLARGED RESTROOM PLAN - DIMENSIONED

A4.0 1/2" = 1'-0"



GRAPHICS SHOWN ARE FOR REFERENCE ONLY.

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

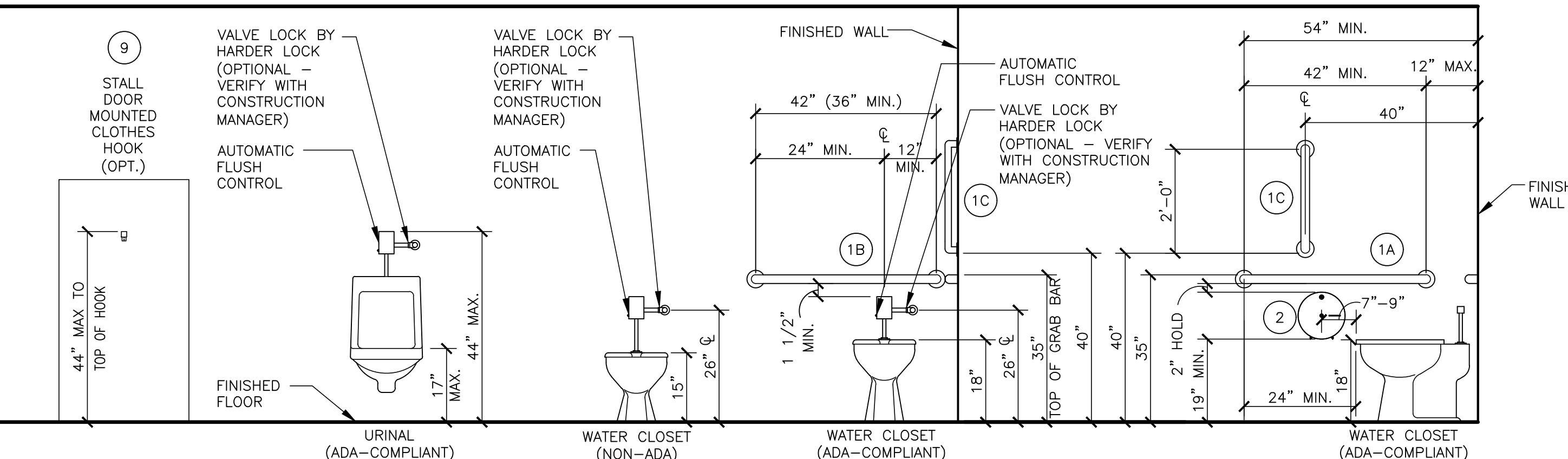
FRANKE/S2K
1-800-423-5247
www.frankeSupply.com
email: fs-frankesupply.us@franke.com

SIGNAGE NOTES:

- EACH EXIT DOOR SHALL HAVE A TACTILE SIGN, INCLUDING RAISED LETTERS AND BRAILLE, STATING 'EXIT' AND SHALL COMPLY WITH CHAPTER 7. ALL SIGNAGE SHALL CONFORM WITH ACCESSIBILITY GUIDELINES AND LOCAL GUIDELINES INCLUDING BUT NOT LIMITED TO PROPORTION, COLOR CONTRAST AND RELIEF AND GRADE 2 BRAILLE REQUIREMENTS.
- 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.

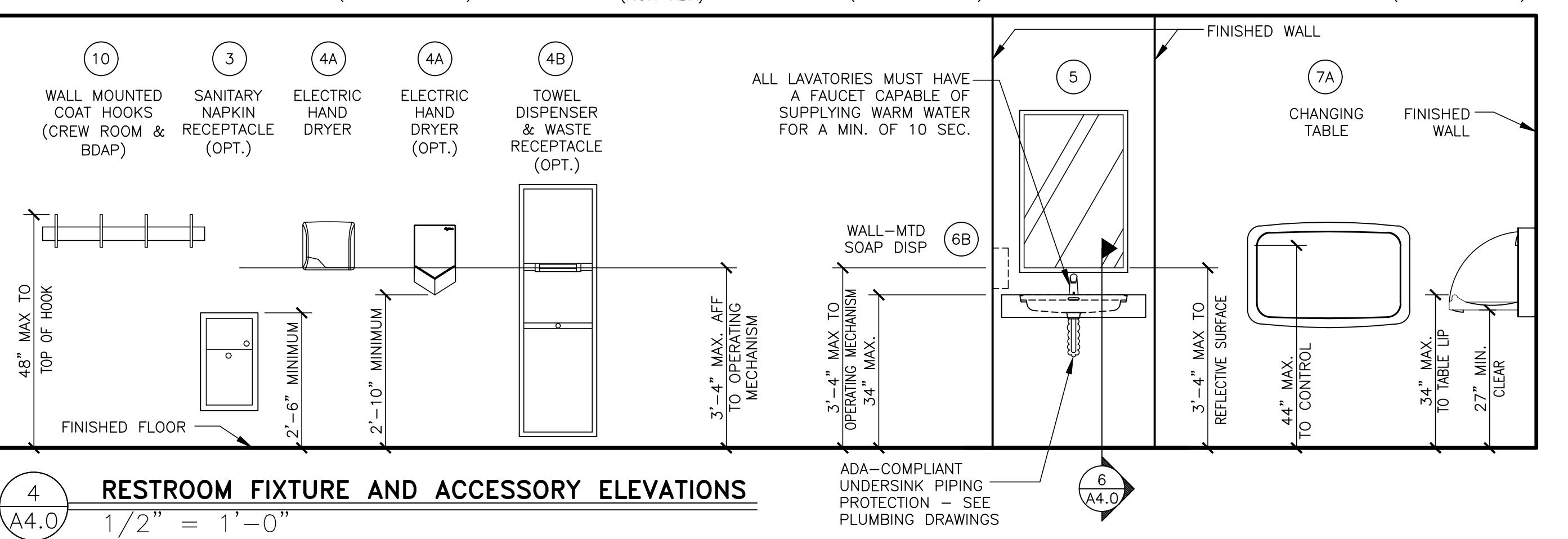
ACCESSIBLE SIGNAGE

N.T.S.



RESTROOM FIXTURE AND ACCESSORY ELEVATIONS

A4.0 1/2" = 1'-0"



ADA-COMPATIBLE UNDERSINK PIPING PROTECTION - SEE PLUMBING DRAWINGS

ITEM (SEE NOTE 2)	MFR MODEL #	SUPPLIER	BACKUP SUPPORT (SEE NOTE 3)
1A GRAB BAR 42"	B6806X42	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	(1) x 6 4'-0" LONG CENTER MOUNTED
1B GRAB BAR 36"	B6806X36		
1C GRAB BAR 24"	B6806X24		
2 TOILET TISSUE DISPENSER, JUMBO, SURFACE MOUNTED	BRADLEY 5424	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
3 SANITARY NAPKIN RECEPTACLE, RECESSED (OPTIONAL)	BOBRICK B-354	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	
4A HAND DRYER, ENERGY EFFICIENT MODEL, ADA, ALUMINUM BRUSHED	WORLD DRYER Q-973A2 VerdeDri	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	FRAME WALL OPENING PER MANUFACTURER'S RECOMMENDATIONS
4A OPTION HAND DRYER, ENERGY EFFICIENT MODEL ADA, SPRAYED NICKEL	DYSON AIRBLADE V	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	
4B OPTION TOWEL DISPENSER & WASTE RECEPTACLE, COMBINATION, RECESSED (OPTIONAL)	BOBRICK B-3974	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	
5 MIRROR, CHANNEL FRAME	BOBRICK B-165 2436	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	
6A SOAP DISPENSER, COUNTER MOUNTED, 6" SPOUT (OPTIONAL)	BOBRICK B-2216	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	
6B SOAP DISPENSER, WALL-MOUNTED	BOBRICK B-2112	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	
7 BABY CHANGING TABLE, HORIZONTAL, RECESSED, ADA COMPLIANT, STAINLESS STEEL	KOALA KARE KB310-SSRE	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
7 OPTION "A" BABY CHANGING TABLE, HORIZONTAL, SURFACE MOUNT, ADA COMPLIANT, STAINLESS STEEL	KOALA KARE KB300-SS	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
8 DIAPER CONTAINER (OPTIONAL)	-	BY OWNER	
9 CLOTHES HOOK	BRADLEY 917	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	
10 COAT HOOK	BRADLEY 9944	HUGHES SUPPLY (866) 310-3576 MCDCOORD@HAJOCACOM	

NOTES:

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

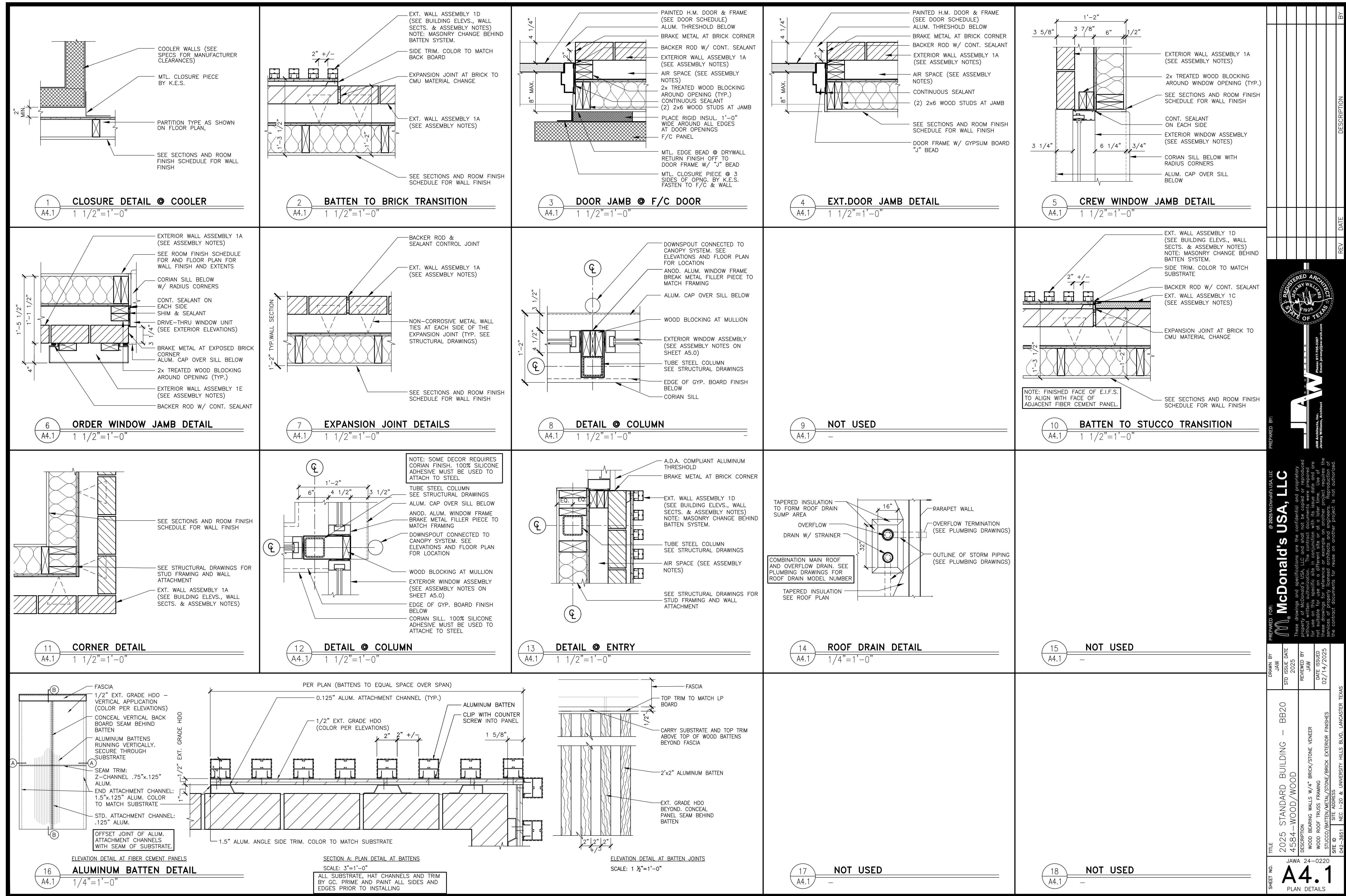
RESTROOM ACCESSORY SCHEDULE

A4.0

McDonald's USA, LLC

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PREPARED FOR: JAW
STD ISSUE DATE: 2025
REVIEWED BY: JAW
DATE ISSUED: 02/14/2025
SITE ADDRESS: UNIVERSITY HILLS BLVD, LANCASTER, TEXAS
TITLE: 2025 STANDARD BUILDING - BB20
DESCRIPTION: WOOD BEARING WALLS W/4" BRICK/STONE/WOOD
STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES
SITE ID: 04-3651 NEC I-20 &
BY: JAW Architects, Inc.
Amy Williams, Architect
Phone: 817-705-3387
Email: amywilliams@jaw.com



1. SLOPE TOP PLATE FOR POSITIVE DRAINAGE TOWARDS ROOF

2. PRE-FAB ANCHOR-TITE FASCIA WITH 24 GA PRE-FINISHED COVER BY METAL-ERA (SEE ELEVATIONS FOR COLOR)

3. CONT. 2x WOOD BLK'G.

4. JAMES HARDIE FASCIA BOARD & VENTED SOFFIT

5. LED DOWN LIGHT

6. EXTEND ROOFING MEMBRANE UP BACKSIDE PARAPET TO UNDERSIDE OF FASCIA, (SEE A1.3 FOR ROOFING NOTES)

7. EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)

8. ROOFING ASSEMBLY (SEE NOTES ON SHEET A1.3)

9. MCDONALD'S ARCH SIGN BY OTHERS & UNDER SEPARATE PERMIT (COORDINATE STRUCTURAL AND ELECTRICAL REQUIREMENTS)

10. EXTERIOR WALL ASSEMBLY 1D (SEE ASSEMBLY NOTES)

11. HOT AIR WELD MEMBRANE FLASHING TO ROOF MEMBRANE AND PROVIDE EDGE SEALANT AND SEAM CAULK

12. PARAPET VENT, FAMCO MODEL #V416, 4X16, OR SIMILAR. INSTALL (1) ON EACH SIDE OF GYP. BD. DRAFT STOP

13. EXTEND ROOFING MEMBRANE UP BACKSIDE PARAPET TO UNDERSIDE OF FASCIA, (SEE A1.3 FOR ROOFING NOTES)

14. EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)

15. ROOFING ASSEMBLY (SEE NOTES ON SHEET A1.3)

16. 1 1/2" = 1'-0"

17. 2. SLOPE TOP PLATE FOR POSITIVE DRAINAGE TOWARDS ROOF

18. PRE-FAB ANCHOR-TITE FASCIA WITH 24 GA PRE-FINISHED COVER BY METAL-ERA (SEE ELEVATIONS FOR COLOR)

19. CONT. 2x WOOD BLK'G.

20. JAMES HARDIE FASCIA BOARD & VENTED SOFFIT

21. LED DOWN LIGHT

22. EXTEND ROOFING MEMBRANE UP BACKSIDE PARAPET TO UNDERSIDE OF FASCIA, (SEE A1.3 FOR ROOFING NOTES)

23. EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)

24. EXTERIOR WALL ASSEMBLY 1D (SEE ASSEMBLY NOTES)

25. MCDONALD'S ARCH SIGN BY OTHERS & UNDER SEPARATE PERMIT (COORDINATE STRUCTURAL AND ELECTRICAL REQUIREMENTS)

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29. EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)

30. ROOFING ASSEMBLY (SEE NOTES ON SHEET A1.3)

31. 1 1/2" = 1'-0"

32. 3. EXTERIOR WALL ASSEMBLY 1C (SEE ASSEMBLY NOTES)

33. LIGHT FIXTURE MOUNTED ON WALL. COORDINATE RECESSED J-BOX WITH STUCCO, AS APPROPRIATE. (SEE ELECTRICAL DRAWINGS)

34. THRU WALL FLASHING, MORTAR NET AND WEEP VENTS AT CANOPY BLOCKING

35. METAL FLASHING SET IN SEALANT

36. SEE CANOPY MANUFACTURER'S DRAWINGS FOR THRU-BOLT ATTACHMENTS

37. INFILL PANEL W/ 1/4" FT SLOPE

38. SCUPPER LOCATIONS AS INDICATED ON ROOF PLAN

39. CANOPY SYSTEM (SEE ASSEMBLY NOTES)

40. RECESSED LIGHT FIXTURE (SEE ELECTRICAL DWGS)

41. SPACER, BACKER ROD, SEALANT AT STEEL PLATE

42. EXTERIOR WALL ASSEMBLY 1A (SEE ASSEMBLY NOTES)

43. 2" TYP. 3'-0"

44. 1 1/2" = 1'-0"

45. 1. EXTERIOR: 1" X 6" PRE-PRIMED TRIM. COLOR: SEE ELEVATIONS. NAIL TRIM PIECES IN PLACE WITHIN 2" OF THE EDGE OF THE TRIM PIECE, AND EVERY 16" ALONG THE LENGTH OF THE TRIM, USING MANUFACTURER APPROVED NAILS. INSTALL PER LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS.

46. 2. OVER WALL ASSEMBLY 1A

47. 1C. STUCCO

48. 1. 7/8" MIN. THICK THREE COAT STUCCO FINISH MEDIUM TEXTURED, APPLIED IN 3 COATS – FINISH COAT OVER BASECOAT – OVER MANUFACTURER'S RECOMMENDED LATH OVER WATER-RESISTIVE VAPOR-PERMEABLE BARRIER EQUAL TO AT LEAST TWO LAYERS OF GRADE 'D' PAPER. TERMINATE STUCCO AT WEPP SCREED 2" ABOVE SIDEWALKS, PAVERS, ETC. INSTALL PER LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS.

49. 2. OVER WALL ASSEMBLY 1A

50. 1D. VERTICAL BATTEN SYSTEM

51. 1. ALUMINUM BATTEN W/MOUNTING BACK RAIL. SIZE: 2" WIDE x 2" DEEP. REFER TO EXTERIOR ELEVATIONS FOR COLOR. INSTALL PER LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS ON TERMINATION AND INSTALLATION DETAILS. BY SUPPLIER. GC. INSTALL

52. 2. 1/2" EXTERIOR HIGH DENSITY OVERLAY (HDO) PLYWOOD, BB, GROUP 1. HDO BOTH SIDES. APA TRADEMARKED. SAND WITH COURSE GRIT ALL SURFACES PRIOR TO PRIMING, PRIME AND PAINT BOTH SIDES AND ALL EDGES. BY GC. INSTALL BY GC. ALUM. EDGE TRIM BY GC. COLOR TO MATCH SUBSTRATE.

53. 3. 1" 0.125 ALUMINUM CHANNEL BY GC. INSTALL BY GC

54. 4. OVER WALL ASSEMBLY 1A

55. 1E. ALPOLIC ACM PANEL

56. 1. 4MM PE CORE ALPOLIC METAL PANEL (4CASM-BJ CLIP SYSTEM). SEE ELEVATIONS FOR COLOR. PROVIDE MFG. SHOP DRAWINGS TO ARCHITECT FOR REVIEW. ALPOLIC DAVID KEARNEY 757-286-1005 dave_kearney@m-chem.com

57. 2. NOT USED

58. 3. PERMEABLE BUILDING WRAP OVER 1/2" EXTERIOR GRADE PLYWOOD. INSTALL PER LOCAL CODES AND MFR'S SPECS.

59. 4. 2x6 WOOD STUD FRAMING @ 16" O.C. (WITH CONTINUOUS DRAFTSTOP/FIRESTOP BLOCKING AT FINISH CEILING LEVEL).

60. 5. 1 1/2" THICK UNFACED BATT INSULATION (R VALUE = 20 MIN.).

61. 6. "CERTAINTEED MEMBRAIN" SMART VAPOR RETARDER (SEMI-VAPOR PERMEABLE) BY CERTAINTEED OR EQUAL.

62. 7. 1/2" CEMENT BOARD SUBSTRATE FOR ALL TILE LOCATIONS. (TYP.) NON TILE LOCATIONS: 1/2" GYPSUM BOARD TO EXTEND TO DECK ABOVE, UNLESS NOTED OTHERWISE. ALL GYP. BOARD MUST SCORE 10 PER ASTM D3273. REFERENCE CURRENT PROJECT MANUAL.

63. 8. SEE A1.0 & ROOM FINISH SCHEDULE FOR ADDITIONAL SUBSTRATE INFORMATION.

64. EXTERIOR WINDOW ASSEMBLY (STOREFRONT & ENTRANCE SYSTEM)

65. GLAZING REQ'S: U VALUE = 0.45 U VALUE "DOOR": 0.77 SHGC = 0.25 REF COM CHECK FOR ADDITIONAL INFORMATION

66. 1. DARK BRONZE ANODIZED ALUMINUM FRAME, THERMALLY BROKEN WITH HEAD RECEIVER CHANNEL.

67. 2. 1" TEMPERED INSULATED GLAZING

68. 3. PROVIDE FLASHING AT HEAD & SILL – CONTINUOUS SEALANT.

69. 4. PROVIDE METAL CAP @ EXTERIOR BRICK SILL

70. 5. 1/2" CORIAN SILL AT INTERIOR

71. ALUMINUM CANOPY SYSTEM

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

73. 1. CANOPY STRUCTURE/OUTRIGGERS: CONT. 2" x 8" PAINTED ALUM. TUBE. PROVIDE CLOSURE PIECE WHERE TUBE ENDS ARE EXPOSED.

74. 2. WHERE INDICATED ON ROOF PLAN, PROVIDE PAINTED ALUM. PANEL INFILL WITH INTEGRAL SCUPPER TO MATCH OUTRIGGERS. PANEL TO PROVIDE POSITIVE SLOPE FOR DRAINAGE.

75. 3. SYSTEM SHALL ALLOW FOR MOVEMENT AT EXPANSION JOINTS AND FOR MOVEMENT OF EXTERIOR WALL SYSTEM ON WHICH THE CANOPY IS MOUNTED.

76. 4. STRUCTURAL ATTACHMENTS & LOAD CALCULATIONS SHALL BE FURNISHED BY CANOPY SYSTEM DESIGNER OF RECORD. SUPPLIER'S DESIGNER OF RECORD SHALL DESIGN PER PREVAILING CODES.

77. 5. CANOPY SYSTEM SHALL BE SELECTED FROM ONE OF THE SUPPLIERS LISTED BELOW.

78. 6. MANUFACTURER SHALL PROVIDE INSTALLER WITH INSTALLATION INSTRUCTIONS. MANUFACTURER SHALL DESIGN CANOPY IN ACCORDANCE WITH THE WALL SYSTEM AND BLOCKING AS INDICATED IN THE CONSTRUCTION DOCUMENTS.

79. 7. INSTALLER SHALL NOTIFY CANOPY DESIGNER OF RECORD, McDONALD'S ACM, G.C. AND ARCHITECT OF ANY DEFICIENCIES THAT WOULD NOT ALLOW FOR THE PROPER INSTALLATION OF THE CANOPY. CANOPY SHALL NOT BE INSTALLED UNTIL DEFICIENCIES HAVE BEEN CORRECTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE CANOPY MANUFACTURER'S INSTALLATION INSTRUCTIONS.

80. CANOPY SYSTEM BY:

81. AWNEX (770) 704-7140

82. www.awnexinc.com

83. ALL-LITE (817) 509-2300

84. www.all-lite.com

85. GREENHECK (715) 355-3942

86. www.greenheck.com

87. PREPARED FOR: McDonald's USA, LLC

88. DRAWN BY: JAW

89. STD ISSUE DATE: 2025

90. REVIEWED BY: JAW

91. DATE ISSUED: 02/14/2025

92. SITE ID: 402-3651

93. TITLE: 2025 STANDARD BUILDING - BB20

94. DESCRIPTION: 4584-WOOD/WOOD

95. SITE ADDRESS: UNIVERSITY HILLS Blvd, LANCASTER TEXAS

96. SHEET NO. A5.0

97. DRAWING NUMBER: JAWA 24-0220

98. DRAWING NUMBER: 4584-WOOD/WOOD

99. DRAWING NUMBER: WOOD BEARING WALLS W/4" BRICK/STONE VENEER

100. DRAWING NUMBER: WOOD ROOF TRUSSES FRAMING

101. DRAWING NUMBER: STUCCO/BATTEN/METAL/STONE/BRICK EXTERIOR FINISHES

102. DRAWING NUMBER: 042-3651

103. DRAWING NUMBER: NEC I-20 &

104. DRAWING NUMBER: 042-3651

105. DRAWING NUMBER: JAWA 24-0220

106. DRAWING NUMBER: WALL SECTIONS

107. DRAWING NUMBER: A5.0

108. DRAWING NUMBER: ASSEMBLY NOTES

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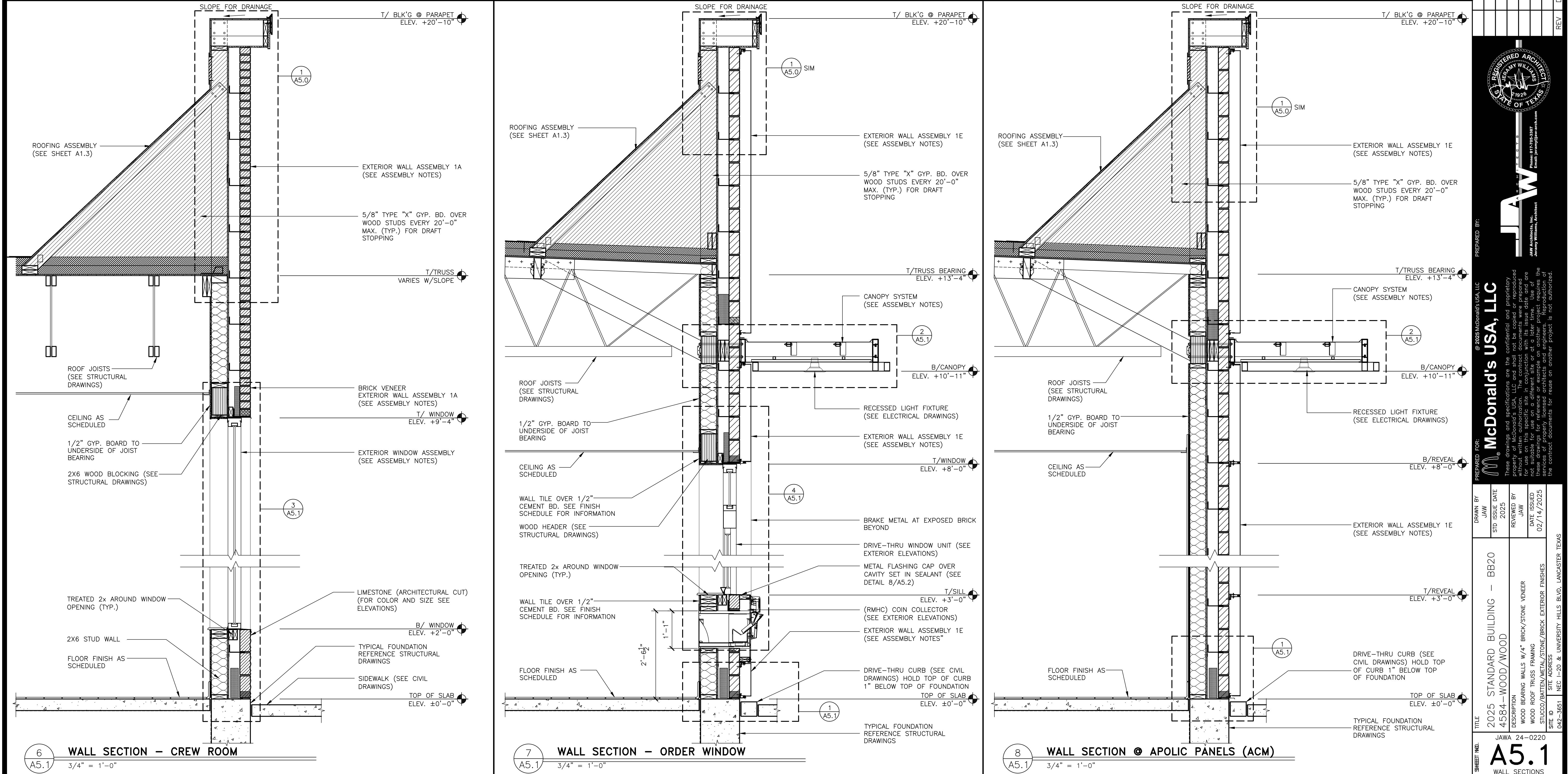
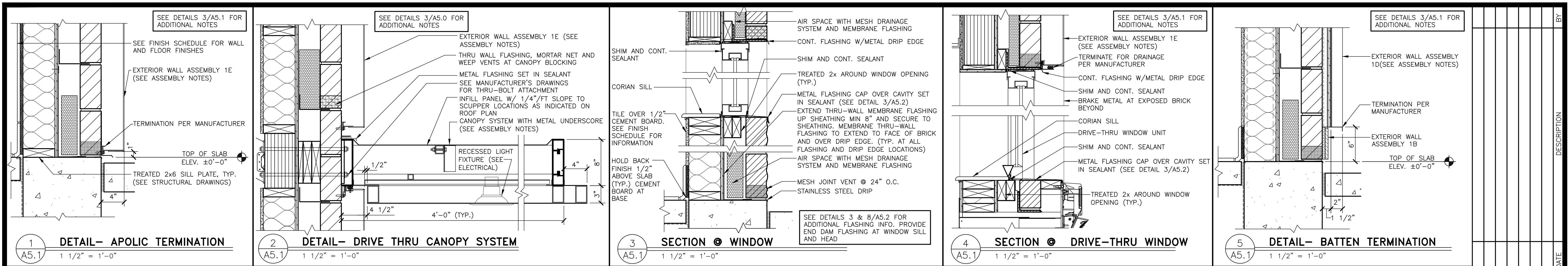
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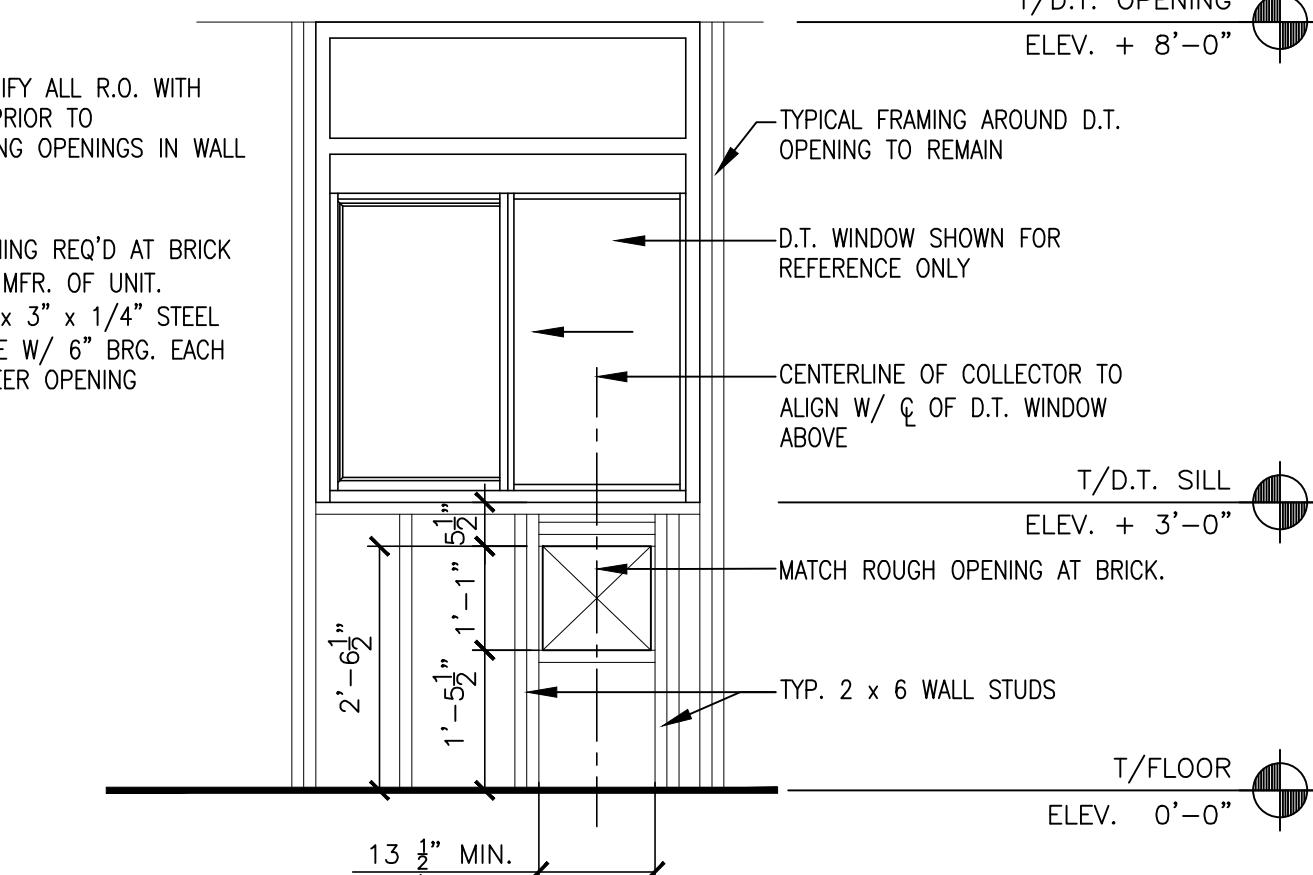
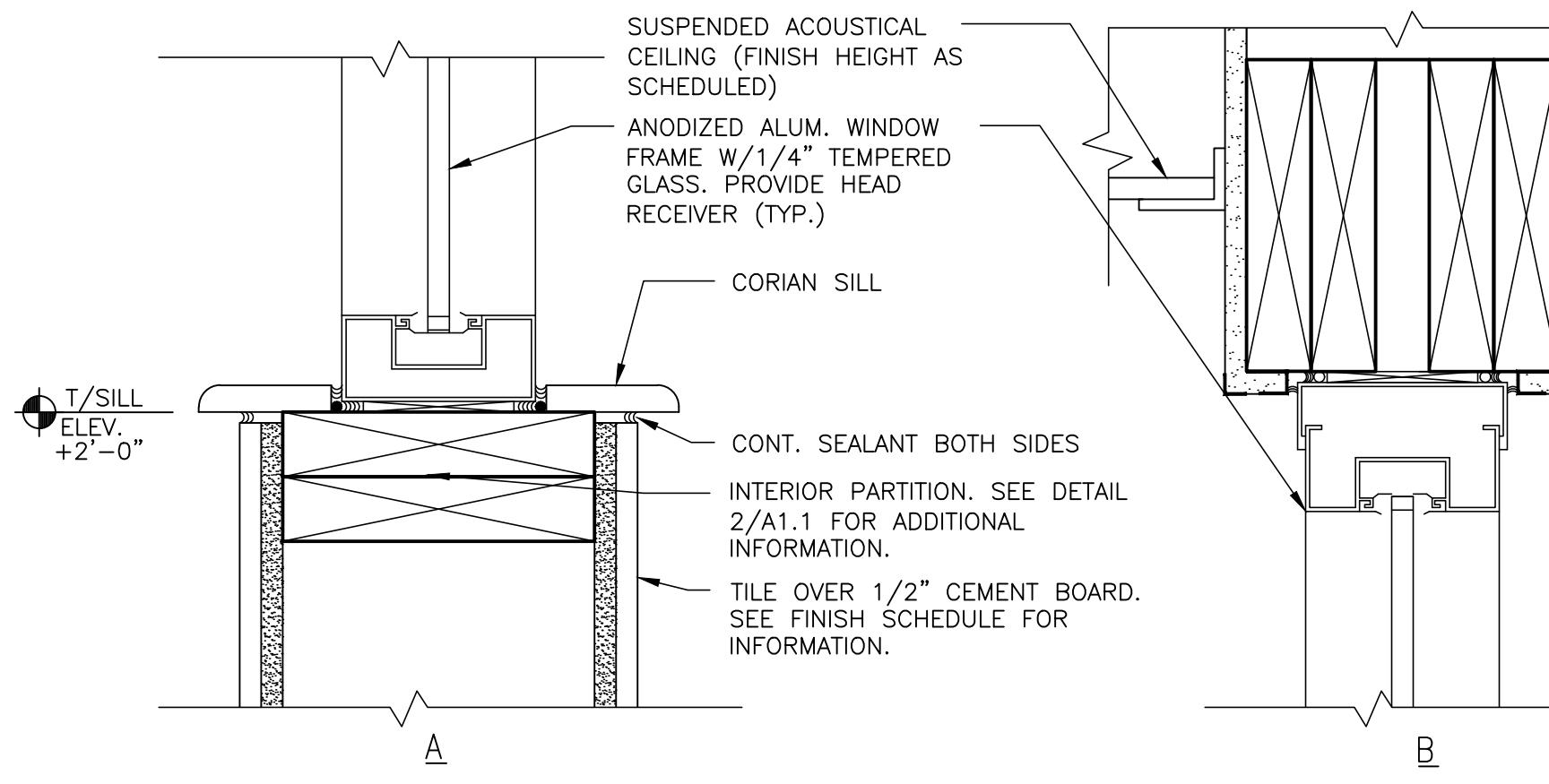
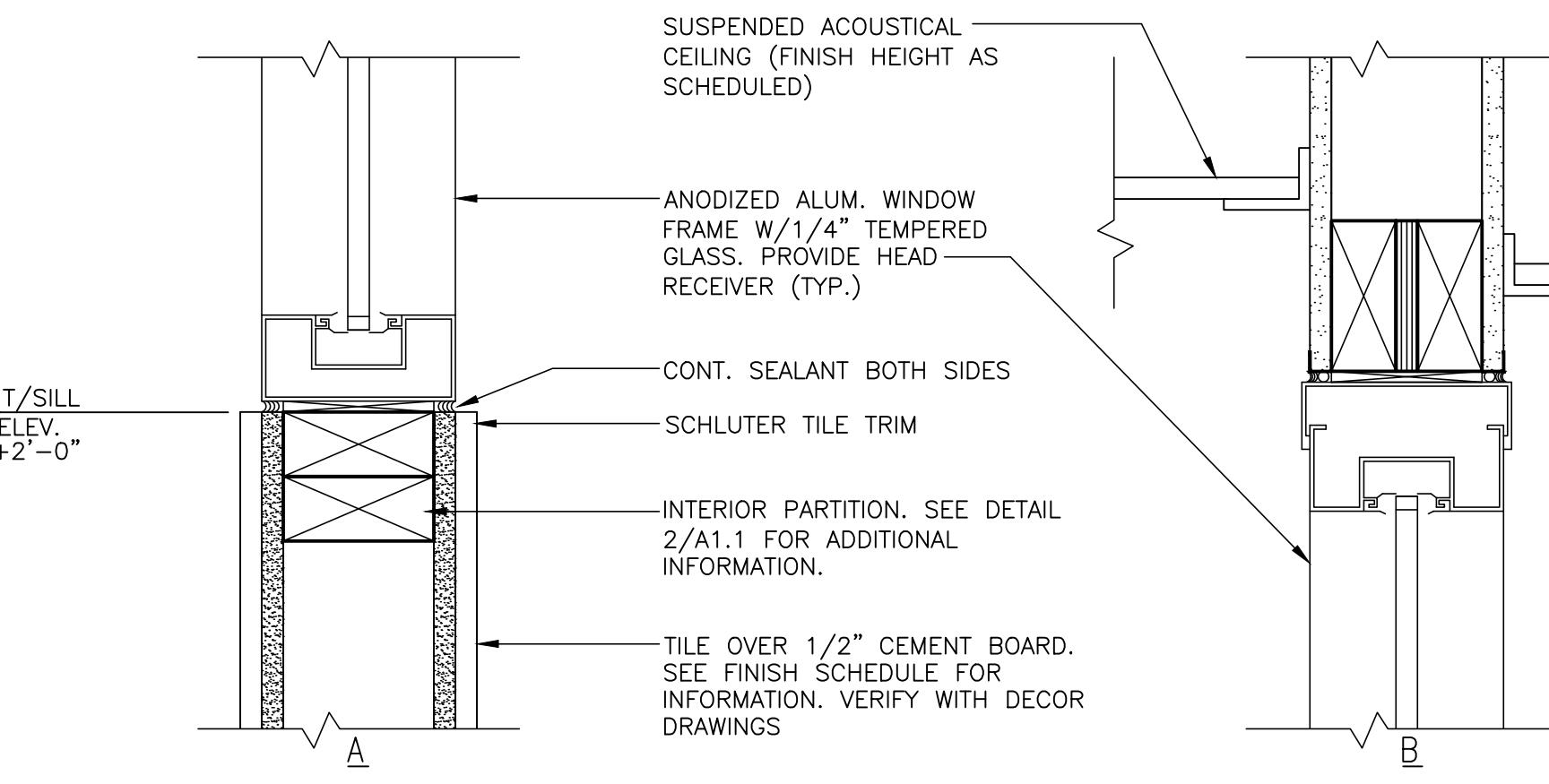
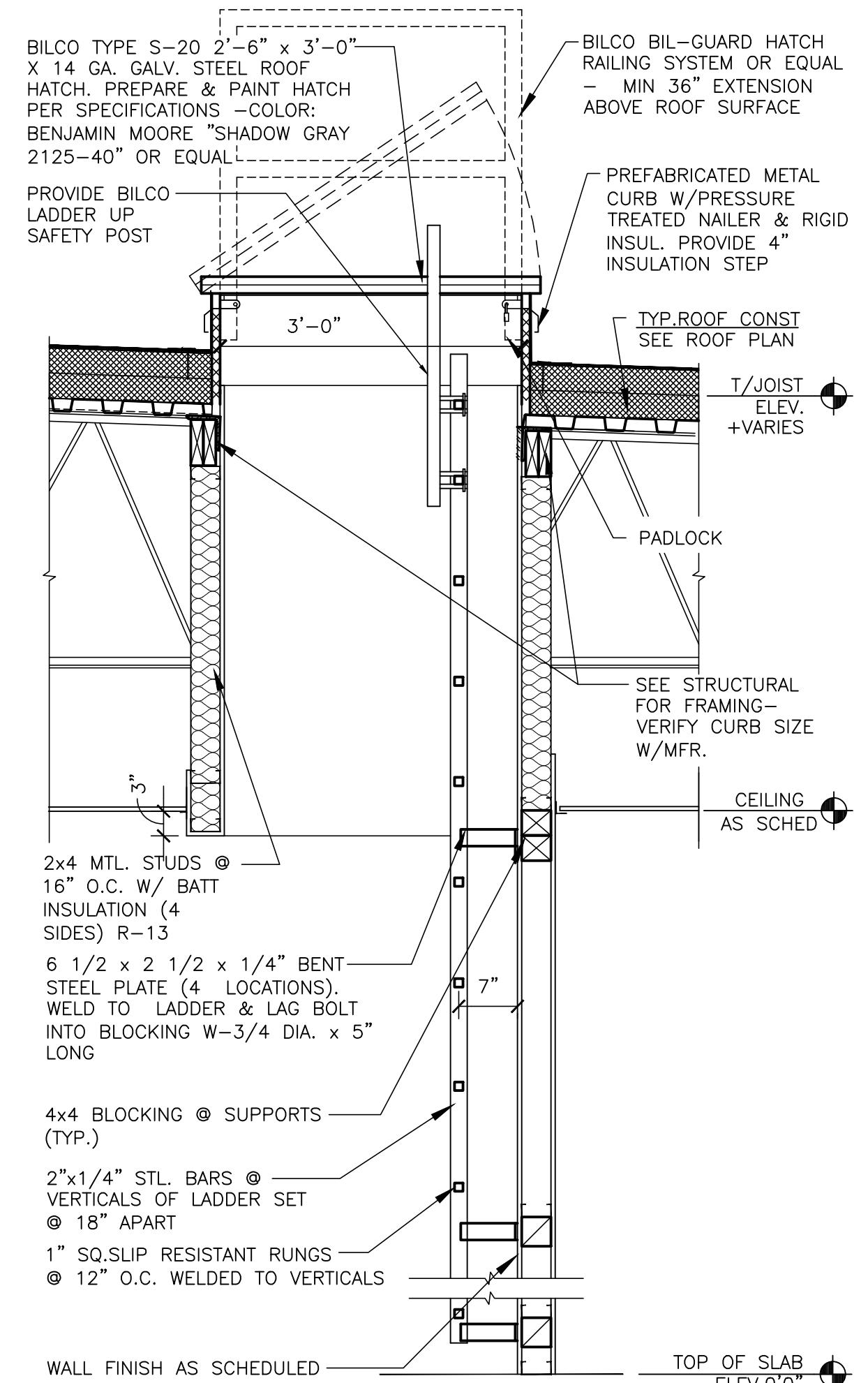
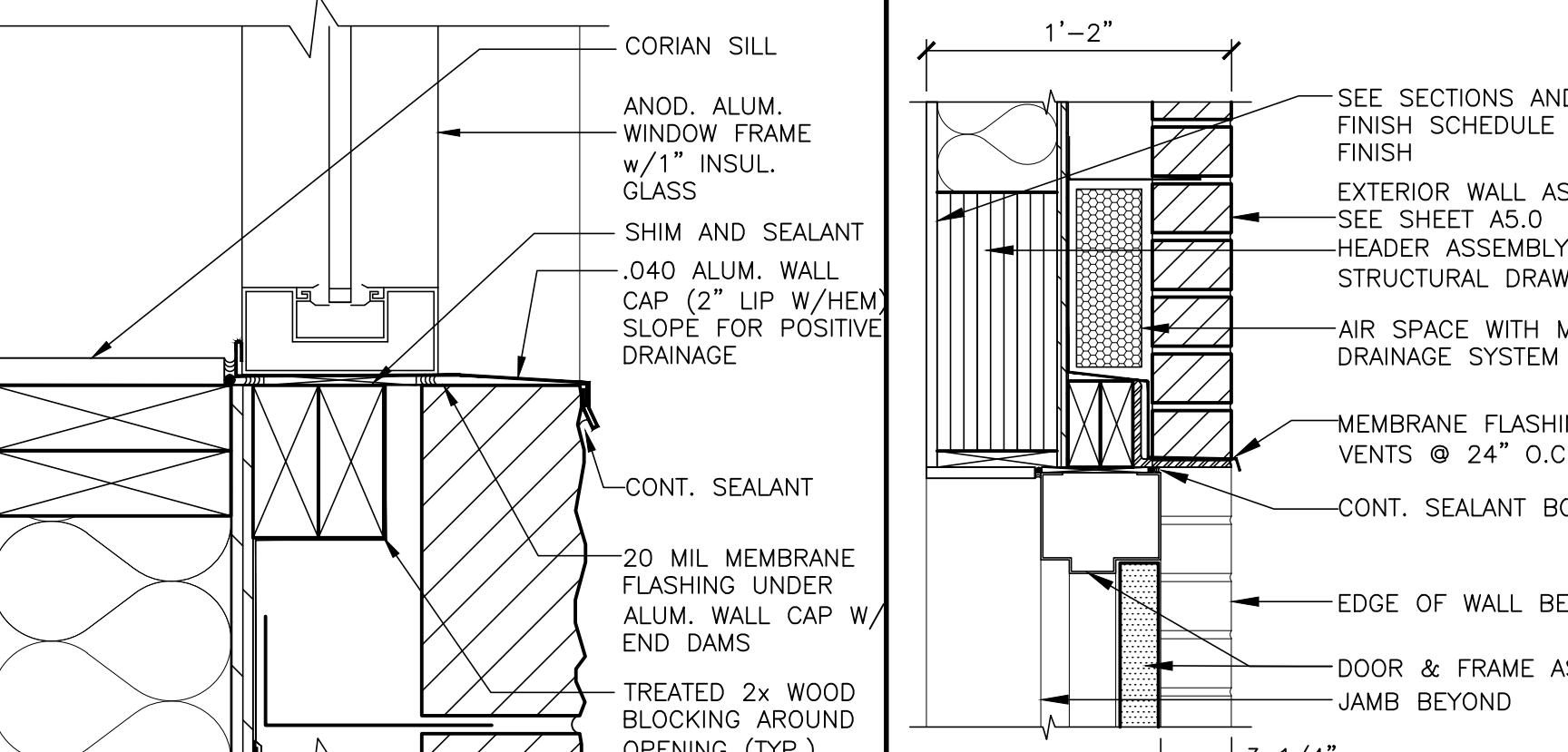
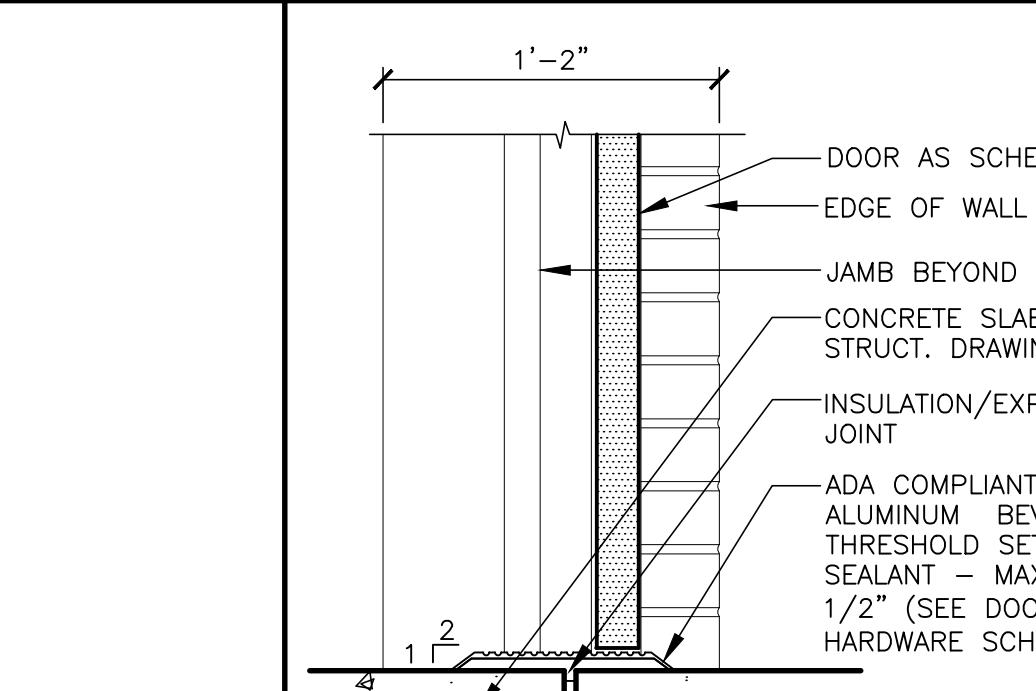
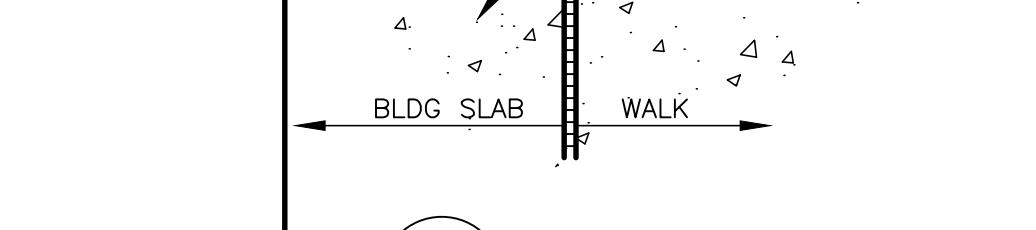
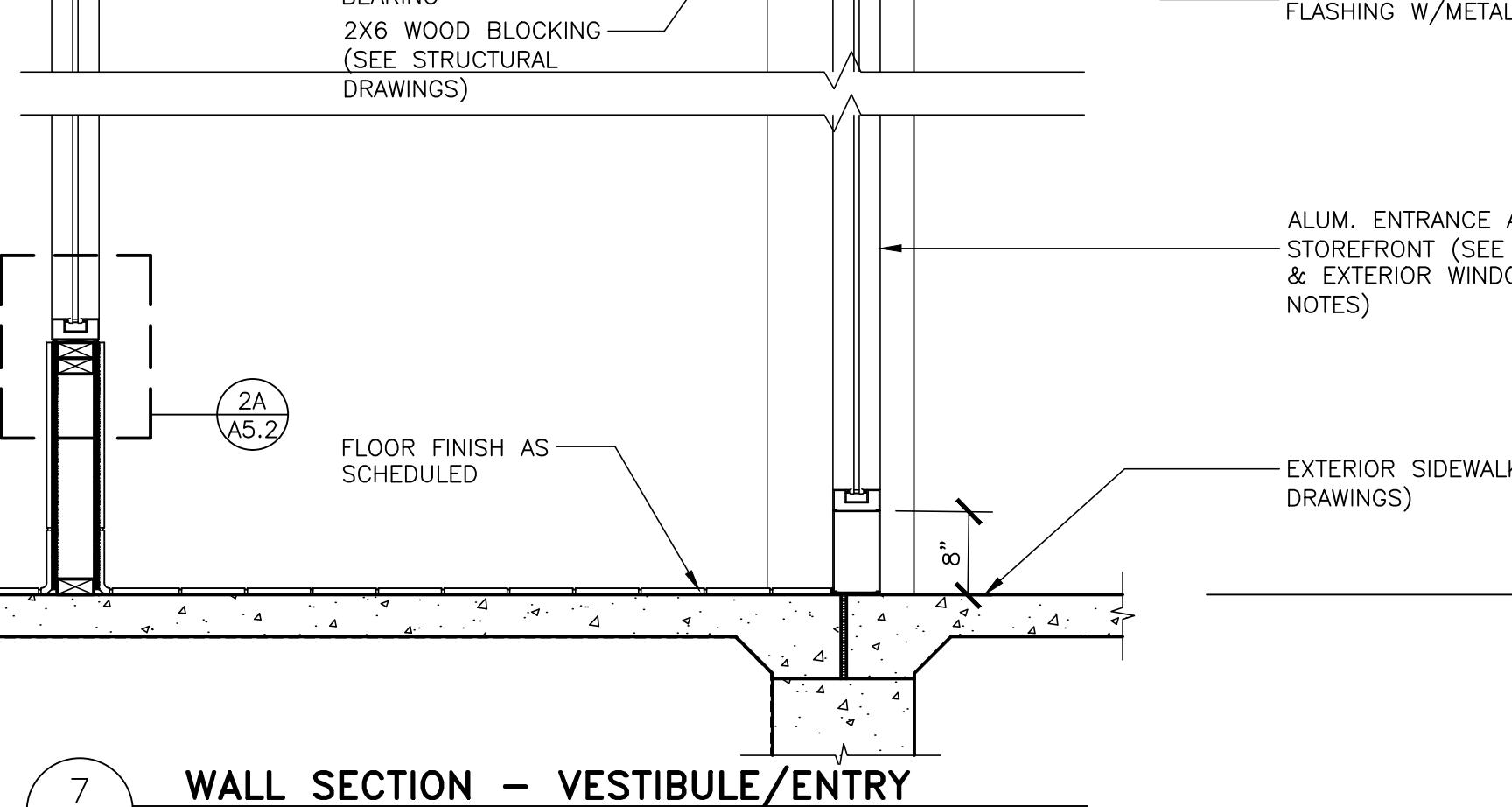
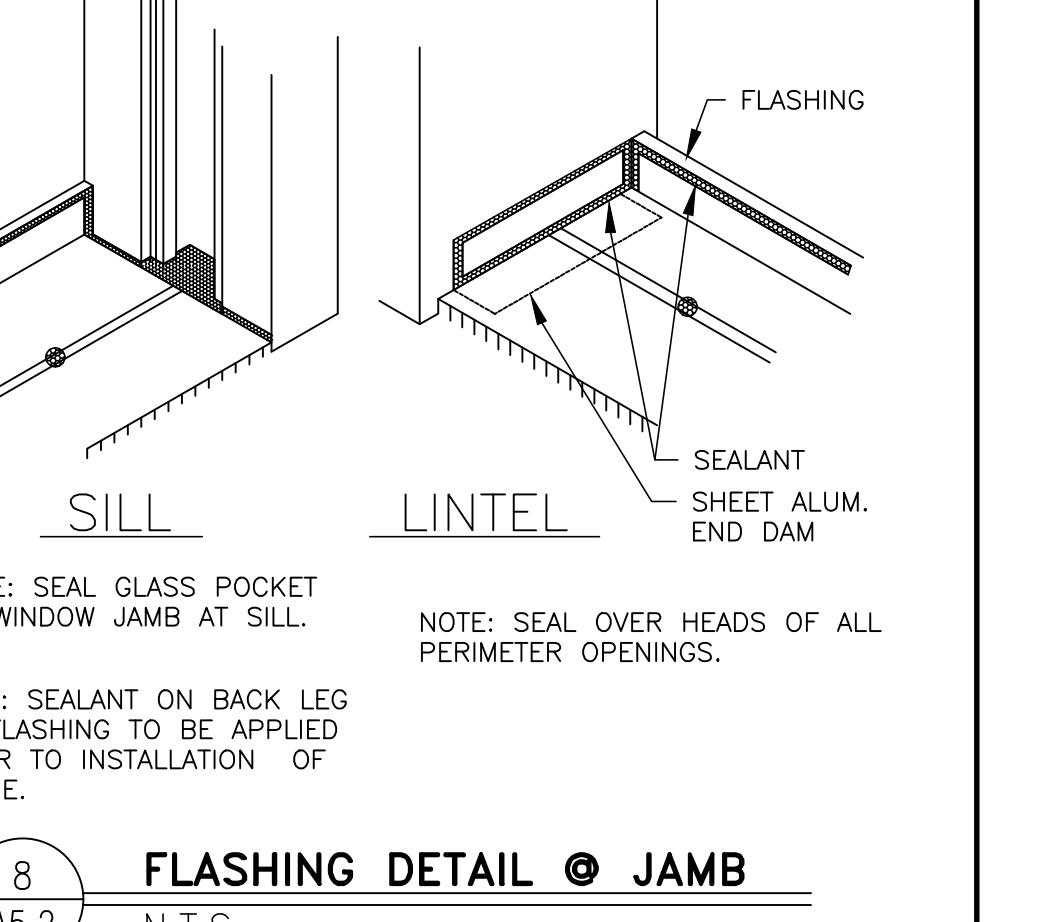
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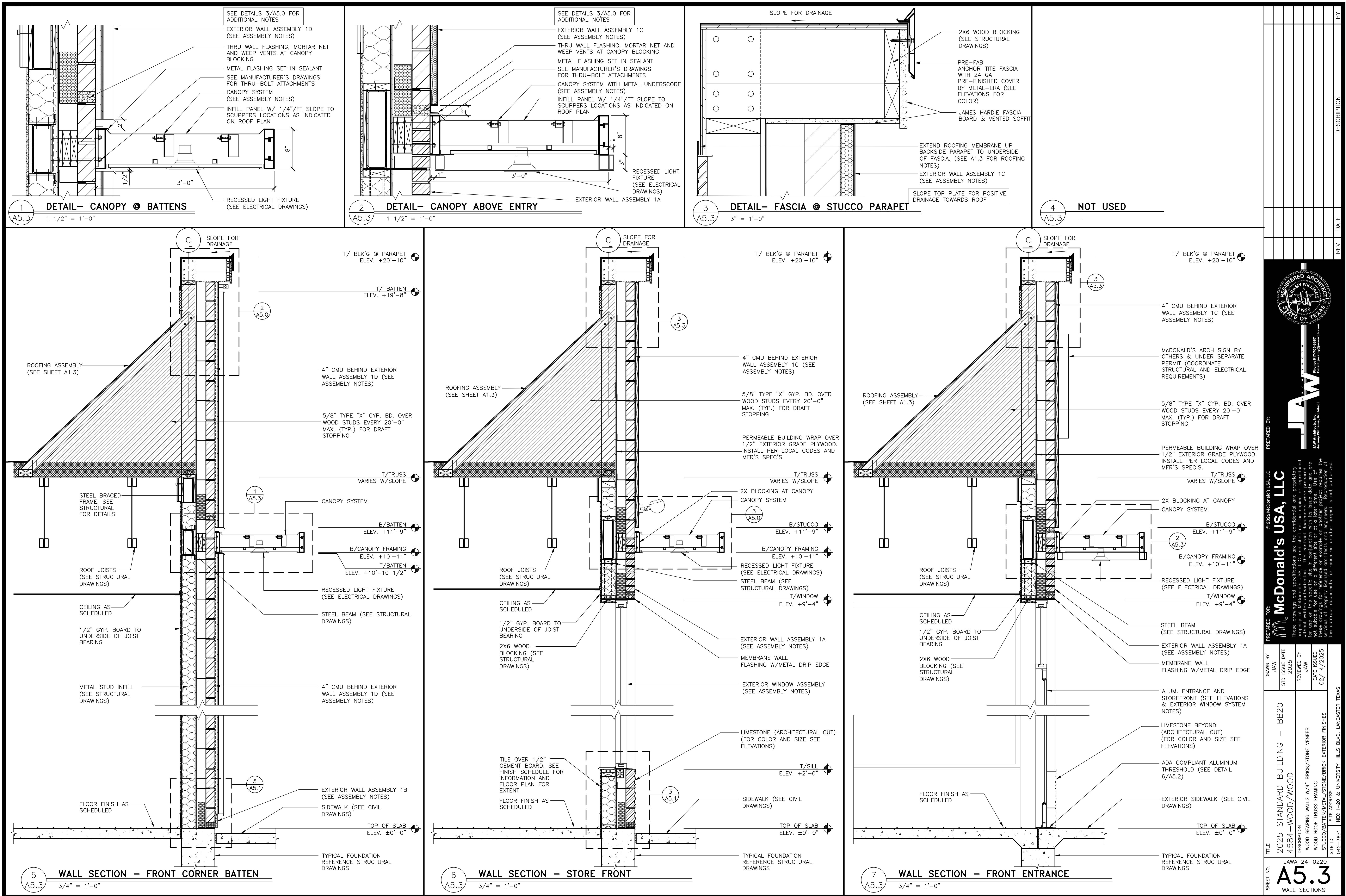
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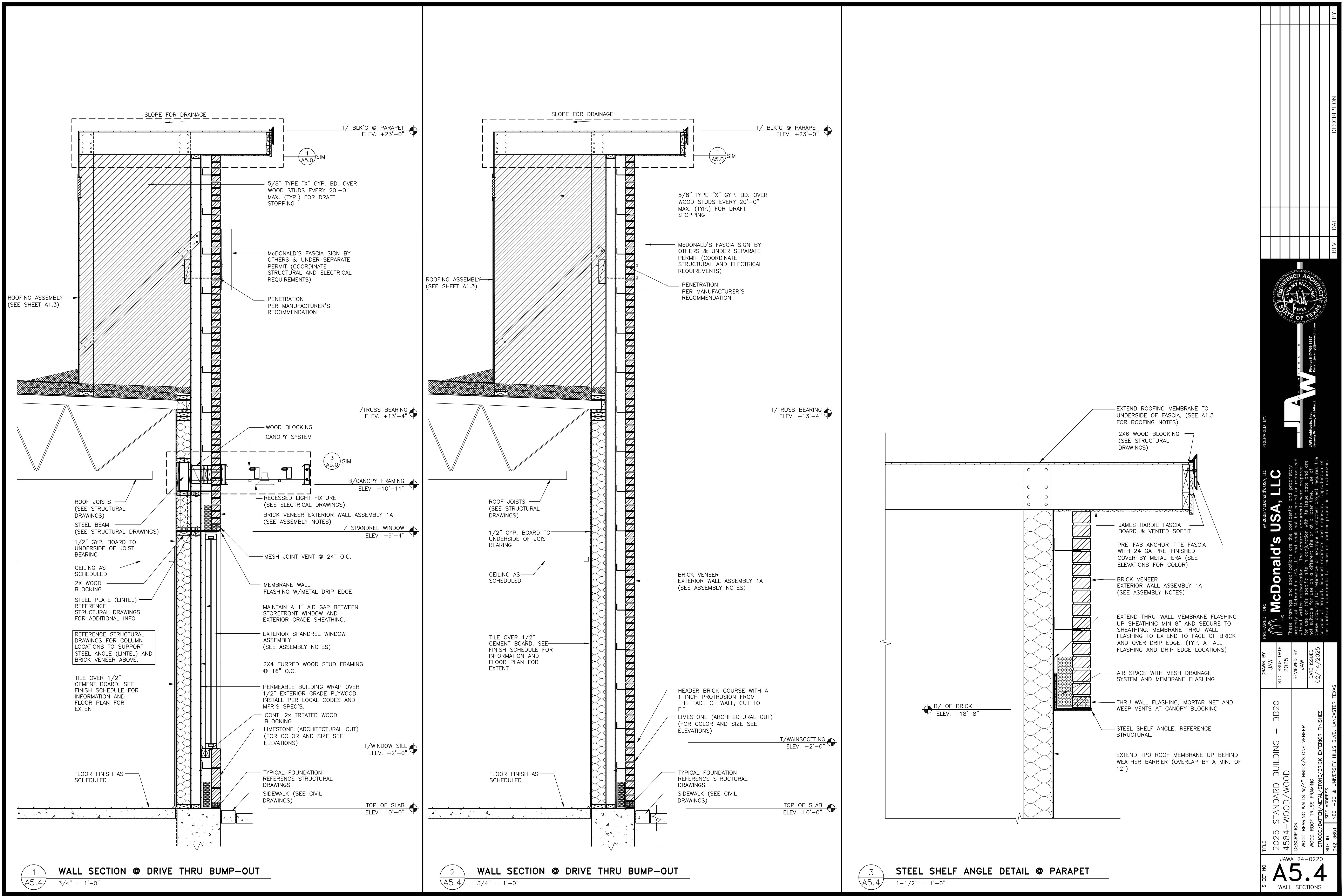
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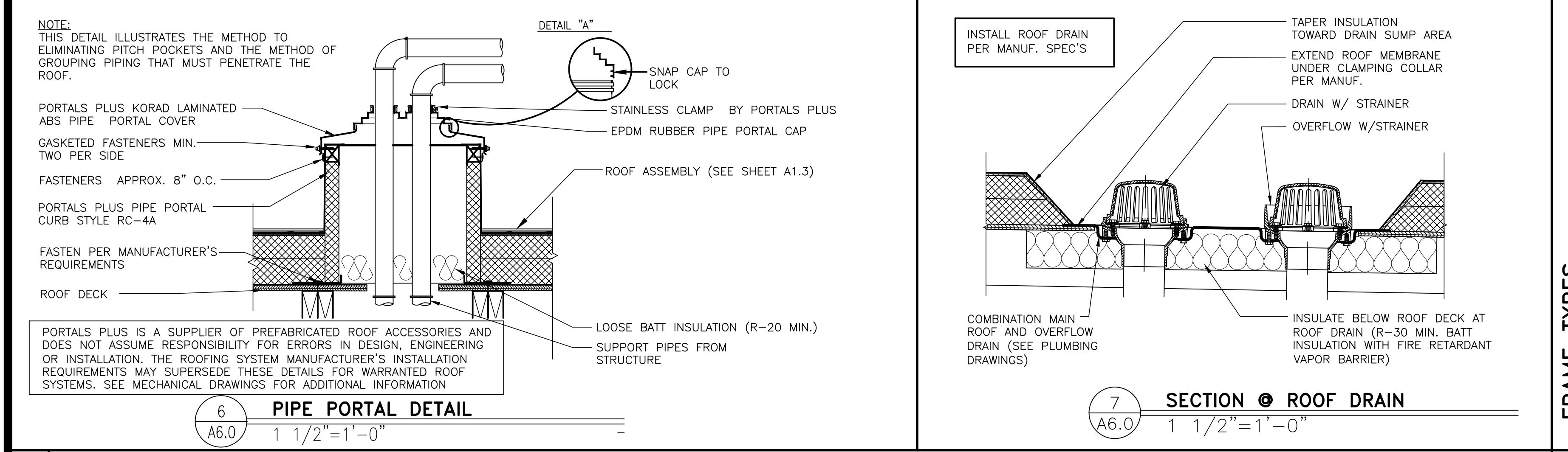
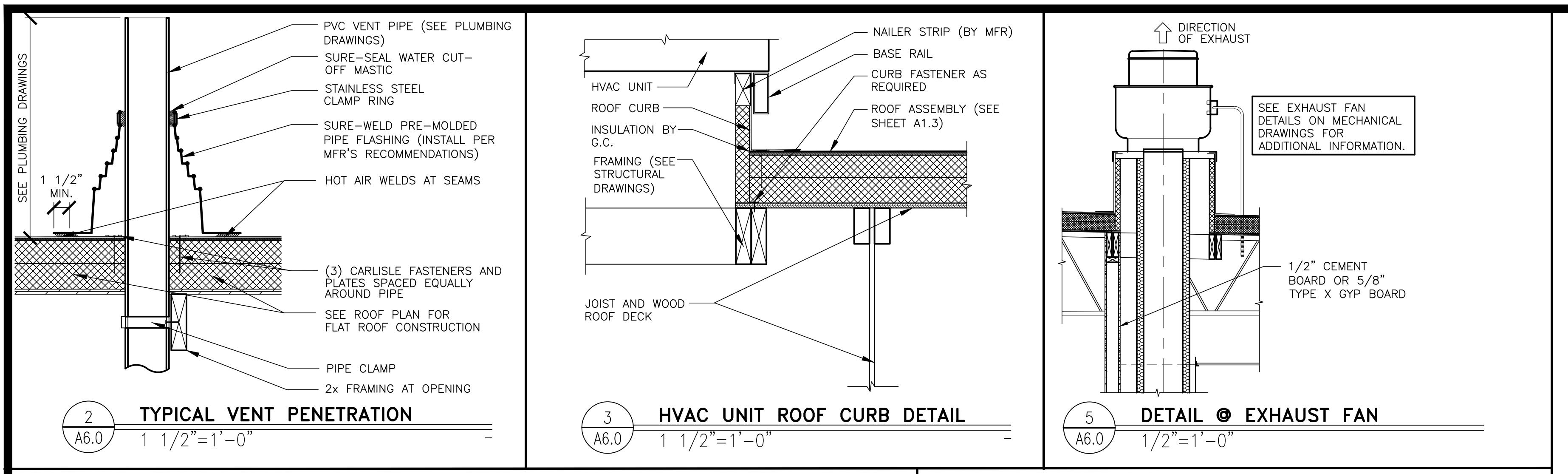
295. DRAWING NUMBER:



A5.2		DESCRIPTION	BY
1	(RMHC) COIN COLLECTOR @ FRAMED WALL A5.2 1/2" = 1'-0" INTERIOR ELEVATION		
2	HEAD & SILL INTERIOR VESTIBULE WALL A5.2 3" = 1'-0"		
3	HEAD & SILL INTERIOR VESTIBULE WALL A5.2 3" = 1'-0"		
4	SECTION @ INTERIOR LADDER A5.2 3/4" = 1'-0"		
5	SECTION @ DOOR HEAD A5.2 1 1/2" = 1'-0"		
6	NOT USED A5.2 3" = 1'-0"		
7	SECTION @ DOOR SILL A5.2 1 1/2" = 1'-0"		
8	WALL SECTION - VESTIBULE/ENTRY A5.2 3/4" = 1'-0"		
9	FLASHING DETAIL @ JAMB A5.2 N.T.S.		
SHEET NO. A5.2		TITLE 2025 STANDARD BUILDING - BB20 4584-WOOD/WOOD DESCRIPTION WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD BEARING WALLS W/4" BRICK/STONE VENEER STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES SITE ADDRESS 10-20 & UNIVERSITY HILLS BLVD, LANCASTER TEXAS SITE ID 042-3651 NEC	JAWA 24-0220 DRAWN BY JAW STD ISSUE DATE 2025 REVIEWED BY JAW DATE ISSUED 02/14/2025 BY JAW Phone: 817-765-3387 Email: jerrywilliams@jawa.com REGISTERED ARCHITECT JAW JAW Architects, Inc. Jerry Williams, Architect 1929 SEE SECTIONS AND ROOM FINISH SCHEDULE FOR WALL FINISH SEE SHEET A5.0 HEADER ASSEMBLY (SEE STRUCTURAL DRAWINGS) AIR SPACE WITH MESH DRAINAGE SYSTEM MEMBRANE FLASHING W/WEEP VENTS @ 24" O.C. CONT. SEALANT BOTH SIDES EDGE OF WALL BEYOND DOOR & FRAME AS SCHEDULED JAMB BEYOND CONCRETE SLAB - SEE STRUCT. DRAWINGS INSULATION/EXPANSION JOINT ADA COMPLIANT ALUMINUM BEVELED THRESHOLD SET IN SEALANT - MAX. HT. 1/2" (SEE DOOR HARDWARE SCHEDULE) BLDG SLAB WALK 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 written permission of McDonald's USA, LLC. The product documents were prepared for the project identified above. They are to be used only for the intended purpose 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 complete documents for reuse on another project is not authorized.

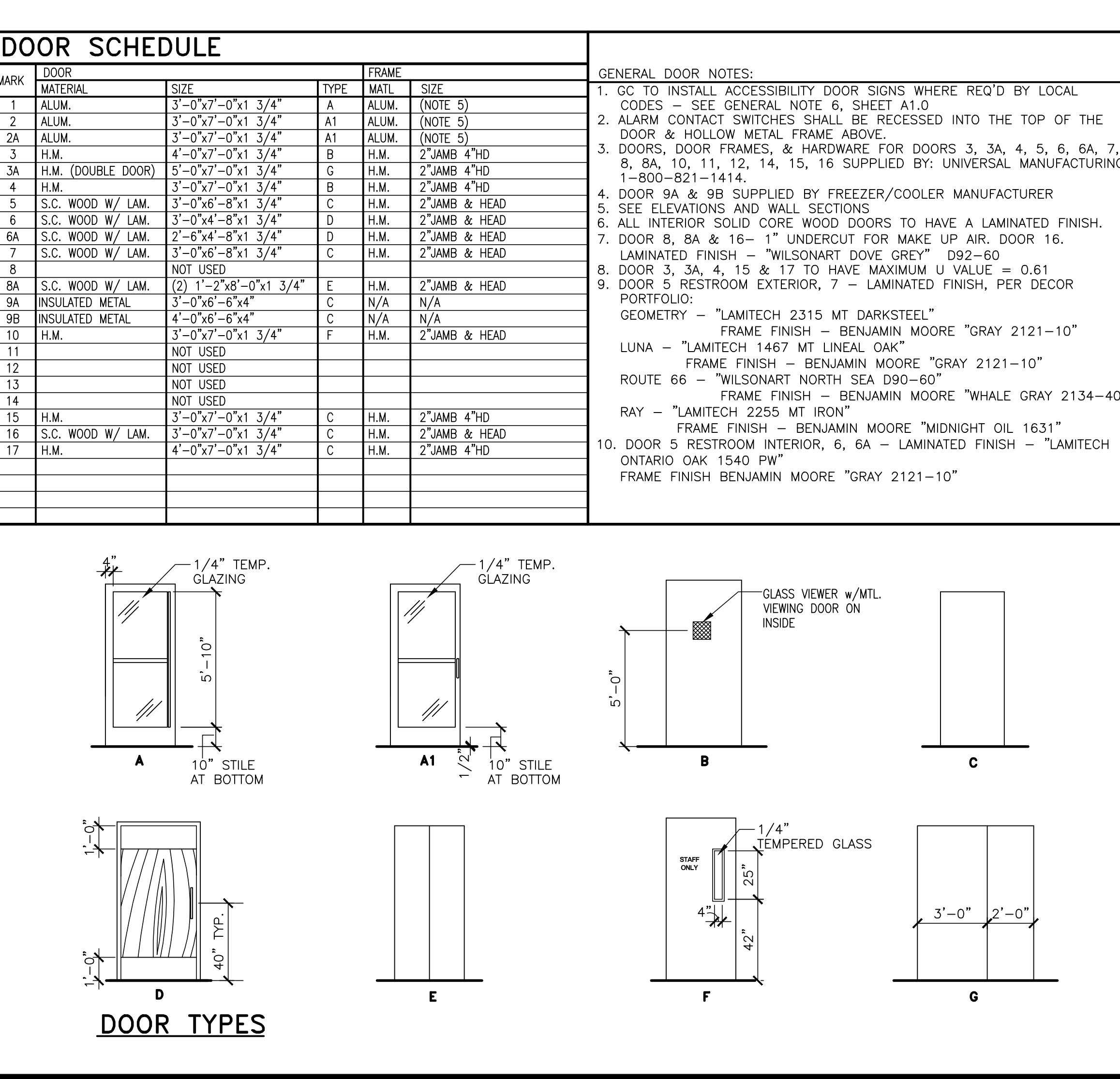
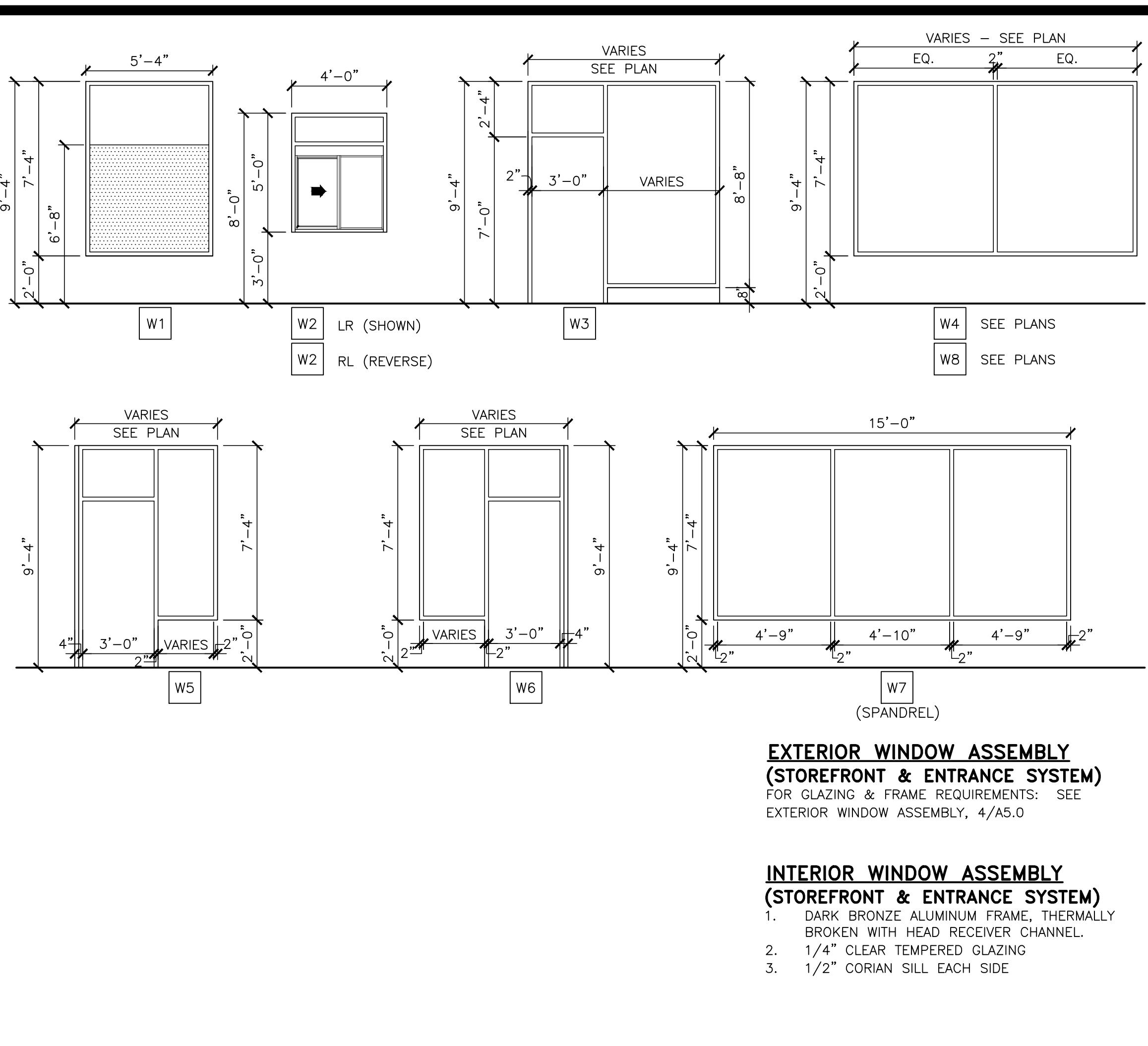






GENERAL NOTES:	
1. ALL EXIT DOORS SHALL BE KEYLESS IN THE DIRECTION OF EGRESS.	
2. THE OPENING FORCE OF ALL EXT. PUSH/PULL DOORS SHALL NOT EXCEED 8 1/2 LBS.	
3. THE OPENING FORCE OF ALL INTERIOR PUSH/PULL DOORS SHALL NOT EXCEED 5 LBS.	
4. PROVIDE PANIC HARDWARE FOR ALL EXTERIOR DOORS AS NOTED ON THE DOOR SCHEDULE.	
5. ALL DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.	
DOOR #4 - REAR EXIT	
1. 1 EA HINGE 780-112HD 83" ALUM HAGER	
2. 1 EA CLOSER 4111 H-CUSH ALUM LCN	
3. 1 EA PANIC 9975EO-LD 48" SP28 V.DUPRIN	
4. 1 EA TRIM 9900T US260 V.DUPRIN	
5. 1 EA ALARM LOCK PC21MSS ALARM	
6. 1 EA LOCKGUARD CLP110 US320 DON-JO	
7. 1 EA TREADPLATE 24 X 34 UNCO	
8. 1 EA WTH/STP160V 36 X 84 N.GUARD	
9. 1 EA THRESHOLD 325HD 48" N.GUARD	
10. 1 EA SWEEP 101VA 36" N.GUARD	
11. 1 EA VIEW FRAME LVLFMD 9 X 9 DKB W/FLAP ON INSIDE N.GUARD	
12. 1 EA MORTISE CYL HOUSING 7PIN SFIC 626	
13. 1 EA 7 PIN CONSTRUCTION CORE FOR ABOVE 626	
14. 1 EA CONTROL KEY FOR ABOVE	
DOOR #1 - ENTRY DOOR/EMERGENCY EXIT	
1. 1 EA CLOSER LCN 4021 x 18	
2. 3 EA HINGES OFFSET PIVOT ANSI -A-156.4 GRADE 1; PROVIDE EXPOSED PARTS OF CAST ALUMINUM ALLOY, AS SUPPLIED BY DOOR MANUFACTURER.	
3. 1 EA PULL HANDLE ROCKWOOD MFG. MODEL: RM3311. SIZE: 1-1/4" DIA. CTC: 5'-10". FINISH TO MATCH STOREFRONT DOOR. OFFSET MOUNTING: TYPE TXHD - IRRE BOLT HEAVY DUTY	
4. 1 EA PULL HANDLE HARDWARE ADAMS RITE MFG. CO. 8800 SERIES WITH OUTSIDE CYLINDER	
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 & #2A - VESTIBULE	
1. 1 EA CLOSER LCN 4041 x 18	
2. 3 EA HINGES OFFSET PIVOT ANSI -A-156.4 GRADE 1; BY DOOR MANUFACTURER.	
3. 1 EA PULL/PUSH HAKER HAGER PUSH/PULL SET 1640/V.F.	
4. 1 EA (DOOR #2A) PANIC HARDWARE ADAMS RITE MFG. CO. 8800 SERIES WITH OUTSIDE CYLINDER (FINISH TO MATCH STOREFRONT DOOR)	
DOOR #3 - STORAGE DELIVERY	
1. 1 EA HINGE 780-112HD 83" ALUM HAGER	
2. 1 EA CLOSER 4111 H-CUSH ALUM LCN	
3. 1 EA PANIC 9975EO-LD 48" SP28 V.DUPRIN	
4. 1 EA TRIM 9900T US260 V.DUPRIN	
5. 1 EA ALARM LOCK PC21MSS ALARM	
6. 1 EA LOCKGUARD CLP110 US320 DON-JO	
7. 1 EA TREADPLATE 24 X 46 UNCO	
8. 1 EA WTH/STP160V 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 LVLFMD 9 X 9 DKB W/FLAP ON INSIDE N.GUARD	
12. 1 EA MORTISE CYL HOUSING 7PIN SFIC 626	
13. 1 EA 7 PIN CONSTRUCTION CORE FOR ABOVE 626	
14. 1 EA CONTROL KEY FOR ABOVE	
DOOR #3A - FREEZER DELIVERY (DOUBLE DOOR)	
1. 2 EA CONTINUOUS HINGE A210HDC 83	
2. 1 EA DEADBOLT B661P 626 SCHLAGE	
3. 1 EA LATCH PROTECTOR CLP-110 630	
4. 1 EA PULL H3E US28 HAGER	
5. EA GASKETING 160V x 60" 2 x 8" SMS-TEKS 6 x 3/4"	
6. 1 EA DRIP CAP 16 x 60" SMS-TEKS 6 x 3/4"	
7. 1 EA TREADPLATE DA CUT 24" x 22"	
8. 1 EA TREADPLATE DA CUT W/ HOLES 24" x 34"	
9. 2 EA SURFACE BOLT 275D 6" US260	
10. 1 EA THRESHOLD 325 HD 60" N.GUARD	
11. 1 EA SWEEP 101VA 24" N.GUARD	
12. 1 EA SWEEP 101VA 36" N.GUARD	
DOOR #7 - DINING ROOM JANITOR'S CLOSET	
1. 3 EA HINGE BB1279 4 1/2" x 4 1/2" US260 HAGER	
2. 1 EA LOCK ND80PD RHO 626 SCHLAGE	
DOOR #8 - COMPUTER CLOSET (NOT USED)	
1. 8 EA HINGE BB1279 4 1/2" x 4 1/2" US260 HAGER	
2. 1 EA LOCK ND80PD RHO 626 SCHLAGE	
3. 2 EA FLUSH BOLT 283D US260 HAGER	
DOOR #8A - COMPUTER CLOSET	
1. 8 EA HINGE BB1279 4 1/2" x 4 1/2" US260 HAGER	
2. 1 EA LOCK ND80PD RHO 626 SCHLAGE	
3. 2 EA FLUSH BOLT 283D US260 HAGER	

DOOR HARDWARE	
1. 1 EA HINGE 780-112HD 83" ALUM HAGER	
2. 1 EA CLOSER 4111 H-CUSH ALUM LCN	
3. 1 EA PANIC 9975EO-LD 48" SP28 V.DUPRIN	
4. 1 EA TRIM 9900T US260 V.DUPRIN	
5. 1 EA ALARM LOCK PC21MSS ALARM	
6. 1 EA LOCKGUARD CLP110 US320 DON-JO	
7. 1 EA TREADPLATE 24 X 46 UNCO	
8. 1 EA WTH/STP160V 48 X 84 N.GUARD	
9. 1 EA THRESHOLD 325HD 48" N.GUARD	
10. 1 EA SWEEP 101VA 48" N.GUARD	
11. 1 EA SWEEP 101VA 24" N.GUARD	
12. 1 EA SWEEP 101VA 36" N.GUARD	



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PREPARED BY: JAW

PREPARED FOR: @2025 McDonald's USA, LLC

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DOOR & HARDWARE

A6.0

DESCRIPTION

STD ISSUE DATE

DATE ISSUED

REV

BY

TITLE

2025 STANDARD BUILDING - BB20

DESCRIPTION

WOOD BEARING WALLS W/4" BRICK/STONE/WOOD

WOOD BEARING WALLS W/4" BRICK/STONE/WOOD

STUCCO/BATHTUB/METAL FRAMING

WOOD BEARING WALLS W/4" BRICK/STONE/WOOD

STUCCO/BATHTUB/METAL FRAMING

SITE ADDRESS

NEC -20 & UNIVERSITY HILLS BLVD, LANCaster, TEXAS

SITE ID

042-3651

DATE

02/14/2025

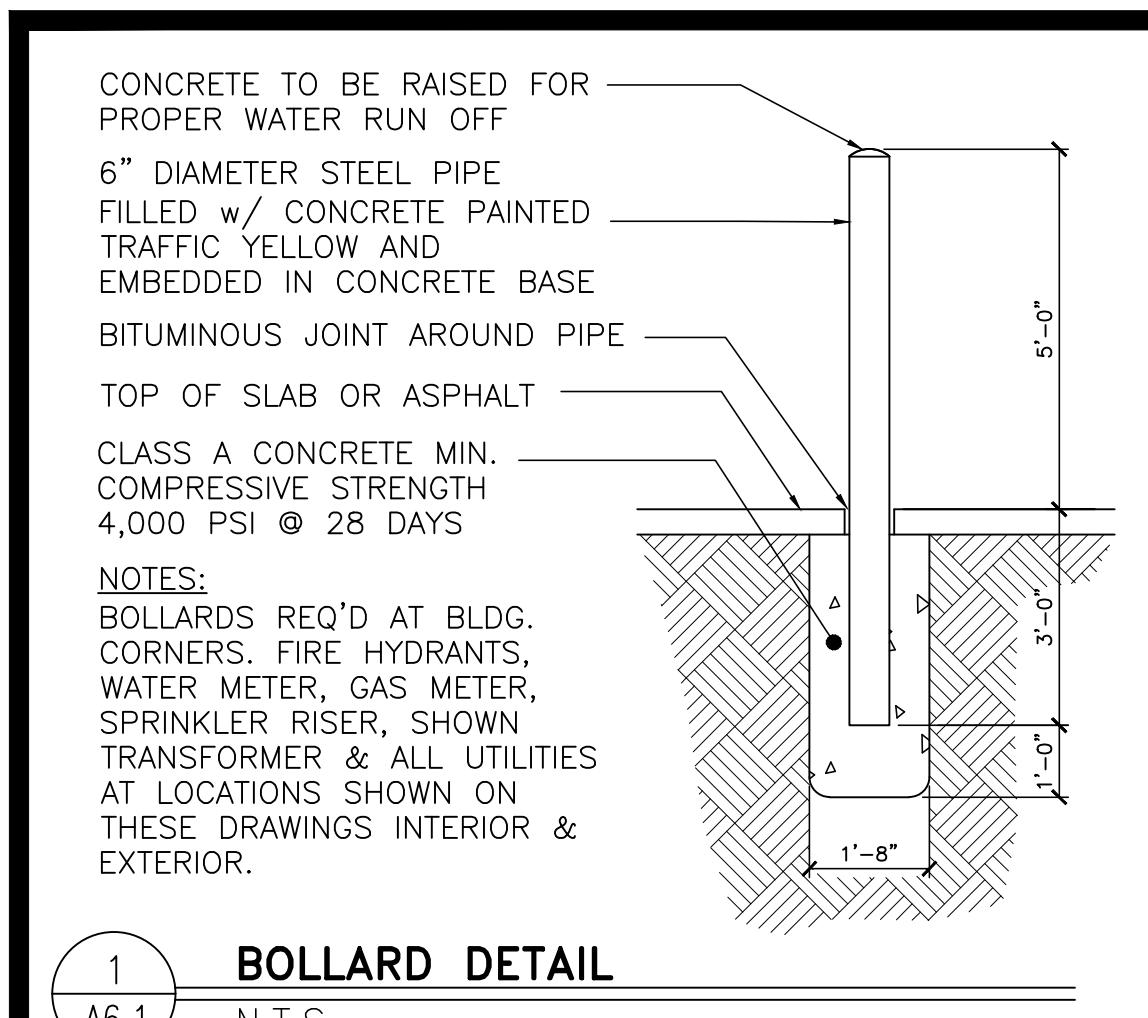
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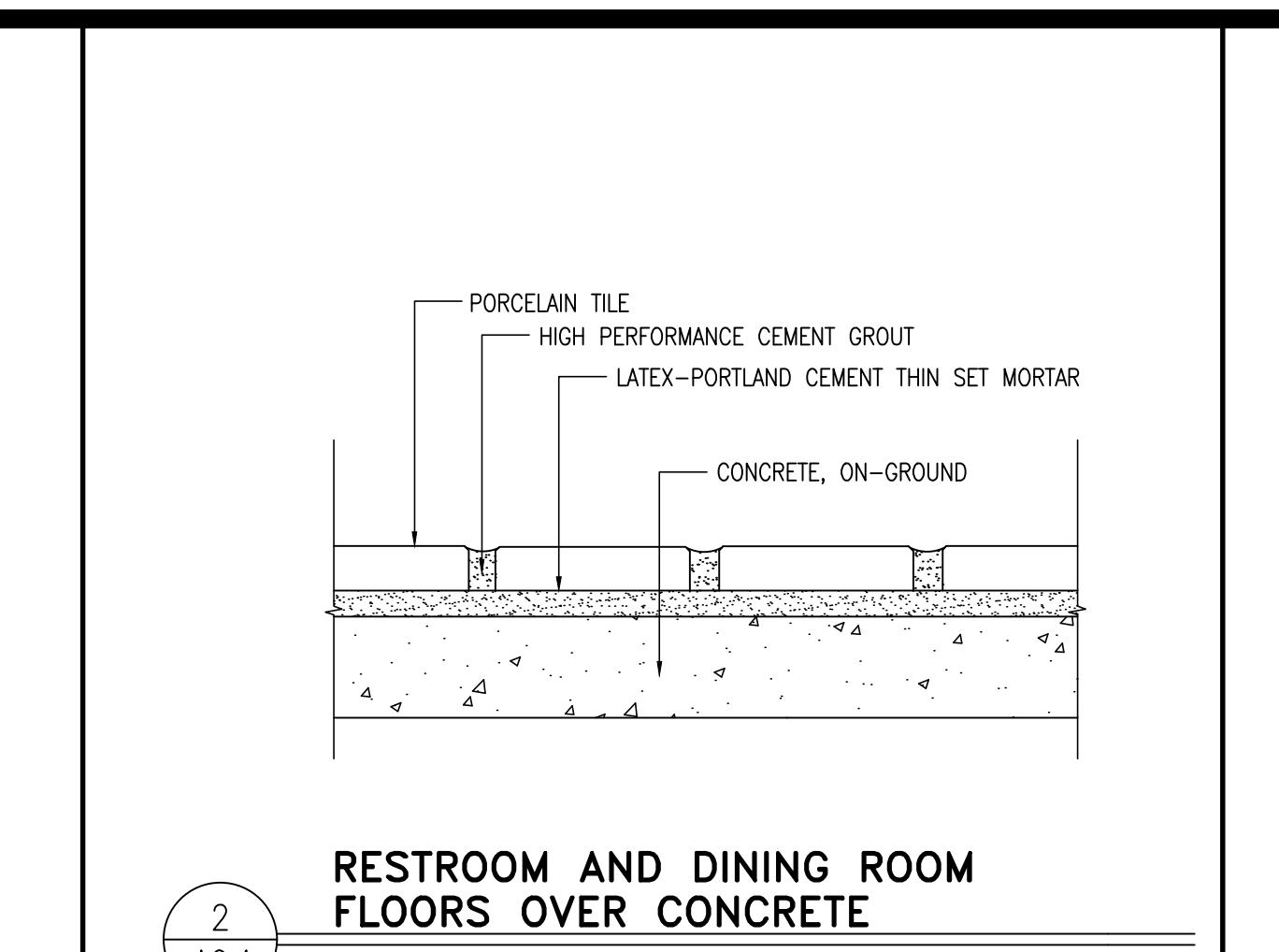
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DOOR & HARDWARE



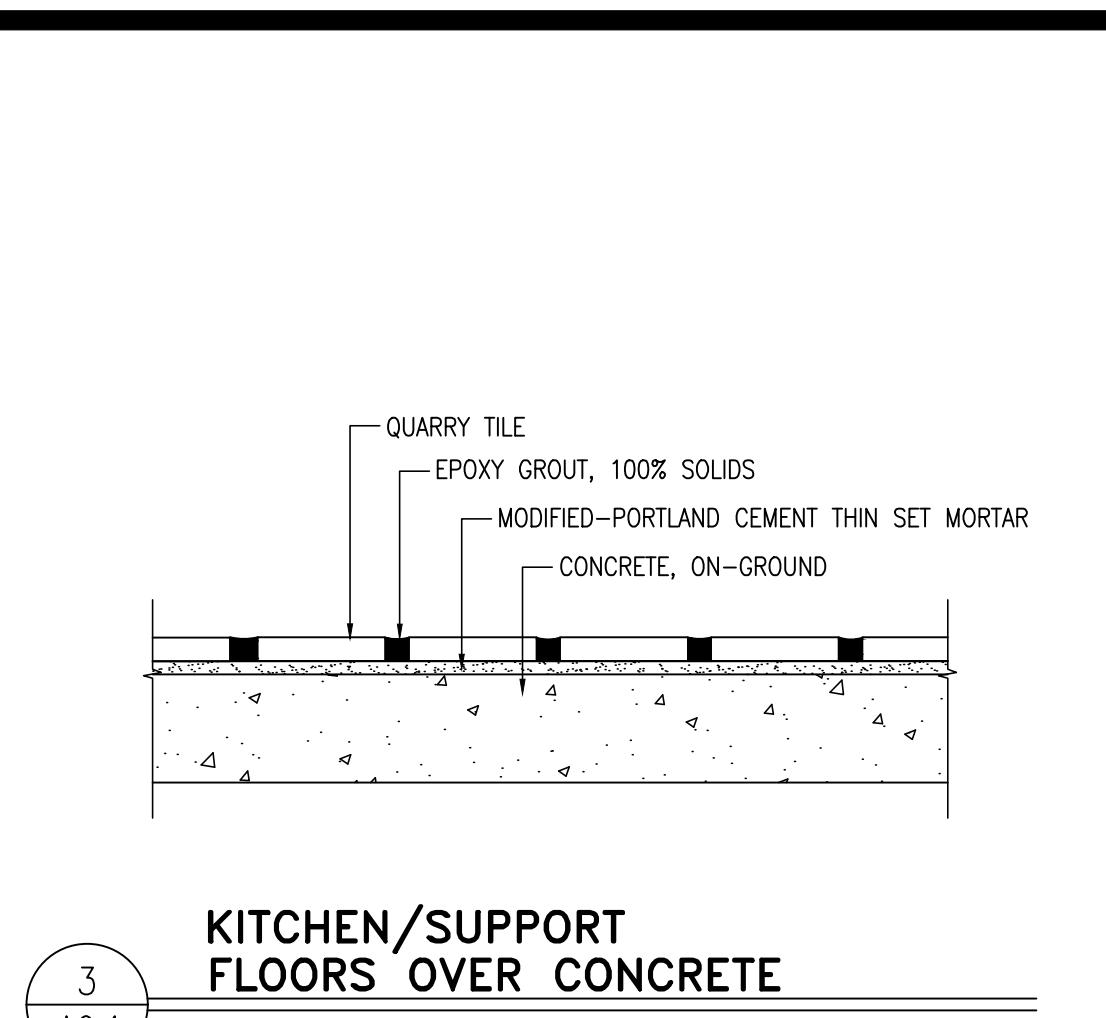
1 BOLLARD DETAIL

A6.1 N.T.S.



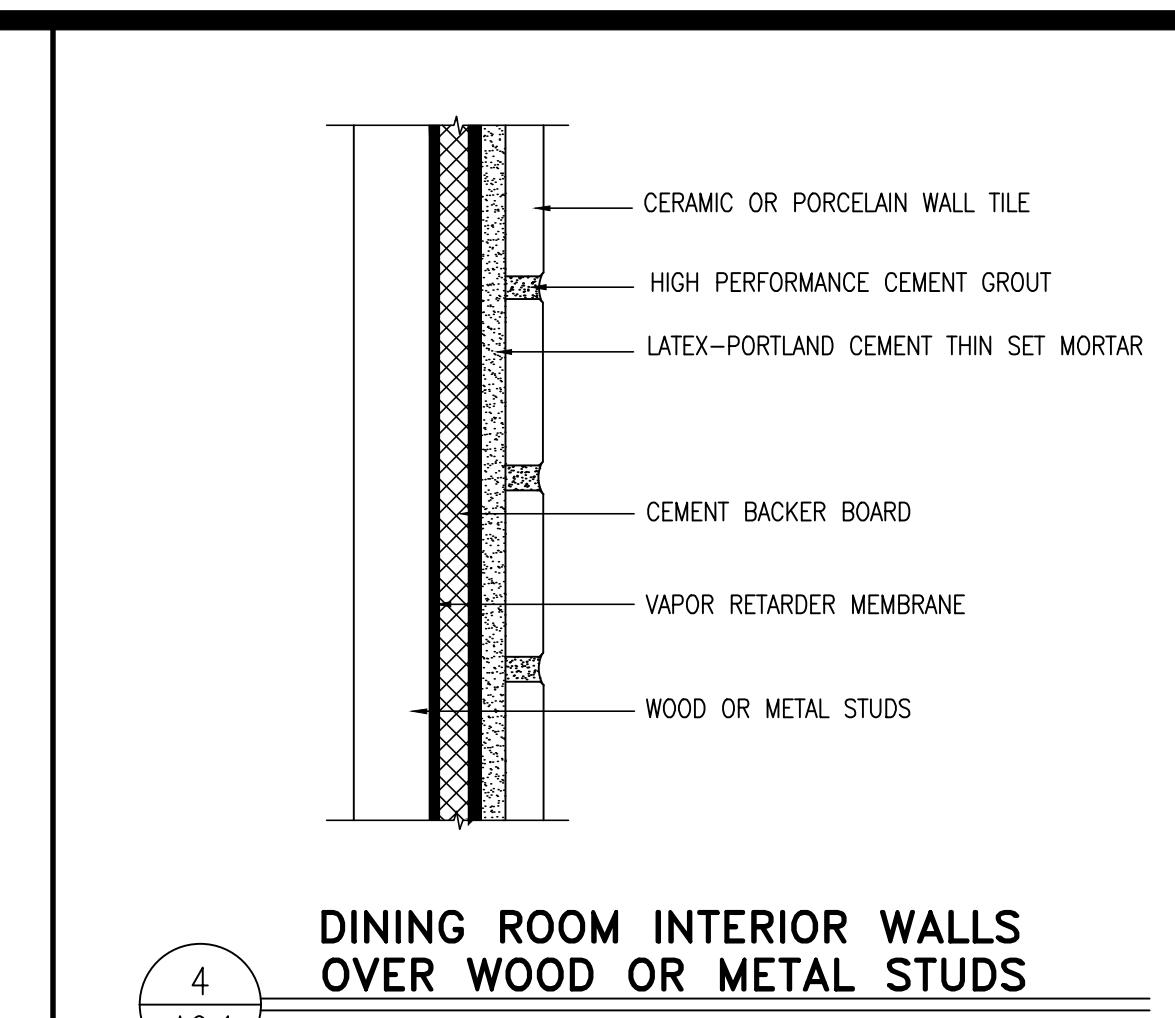
2 RESTROOM AND DINING ROOM FLOORS OVER CONCRETE

A6.1 N.T.S.



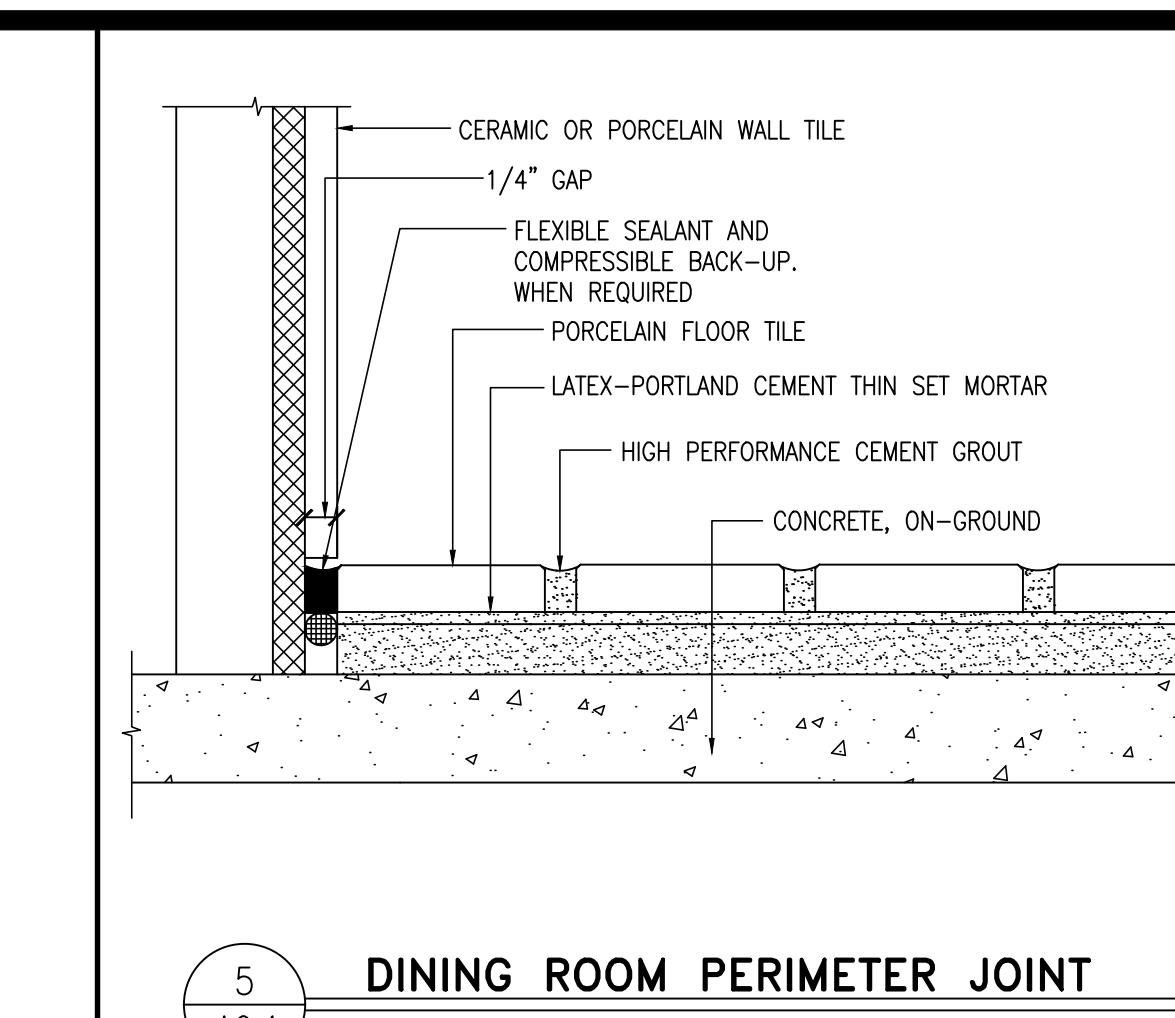
3 KITCHEN/SUPPORT FLOORS OVER CONCRETE

A6.1 N.T.S.



4 DINING ROOM INTERIOR WALLS OVER WOOD OR METAL STUDS

A6.1 N.T.S.



5 DINING ROOM PERIMETER JOINT

A6.1 N.T.S.

WALL TILE SCHEDULE - LUNA

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

GENERAL FINISH NOTES:

1. REFERENCE: McDONALD'S PROJECT MANUAL - SECTION 093000
2. KITCHEN FLOOR TILE:
TILE: CROSSVILLE 6"x6" "METROPOLITAN QUARRY BASICS ABRASIVE"
GROUT: CHARCOAL #47 BY MAPEI
KERAPOXY IEG BLACK #10 BY MAPEI (FOR OPTIONAL GREY TILE)
COLOR: PURITAN GRAY EXTRA ABRASIVE 57XA (STANDARD)

DINING ROOM FLOOR TILE:

3. TILE: CROSSVILLE 24"x24" "MOONLIGHT GREY"
GROUT: MAPEI ULTRACOLOR GRAY 09 - JOINT 1/8" MAX
4. MAIN WALL TILE: ICG ITALIA - ARCHITECT 12"x24" "FACTORY"
ACCENT WALL TILE: ICG ITALIA - SHELTER 4"x12" "BIANCO MATTE"
RESTROOM SINK & HAND DRYER PANEL: CORIAN - CAMEO WHITE
FLOOR TILE: ICG ITALIA - NEW ROUND 12"x24" "ANTHRACITE"
GROUT: MAPEI ULTRACOLOR CHARCOAL 47 - JOINT 1/8" MAX

TILE TRANSITION AND EDGE PROTECTION:

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

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

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

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

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

FLOOR TILE SCHEDULE - LUNA

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

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. TILE WAINSOT TO 6' A.F.F. OVER CEMENT BD. OVER EXT GRADE PLYWOOD (NOTE 4) AT MOP SINKS
6. PROVIDE CEMENT BOARD BACKER OR EQUIVALENT AT ALL TILE LOCATIONS.

7. PROVIDE VAPOR BARRIER BEHIND PLYWOOD AT WALLS AND BEHIND GYP. AT CEILING

8. CREW ROOM FINISHES:
NORTH WALL: MOMENTUM WALL GRAPHIC - VIS703.
EAST/WEST/SOUTH WALLS: TILE WAINSOT TO 3' A.F.F. - ICG ITALIA ARCHITECT FACTORY 12"x24". TILE COVE BASE - ICG ITALIA ARCHITECT FACTORY 6"x12". LUNA WOOD WALL COVERING - MOMENTUM NA-SC-MC439 - ENGLEWOOD, ELM.

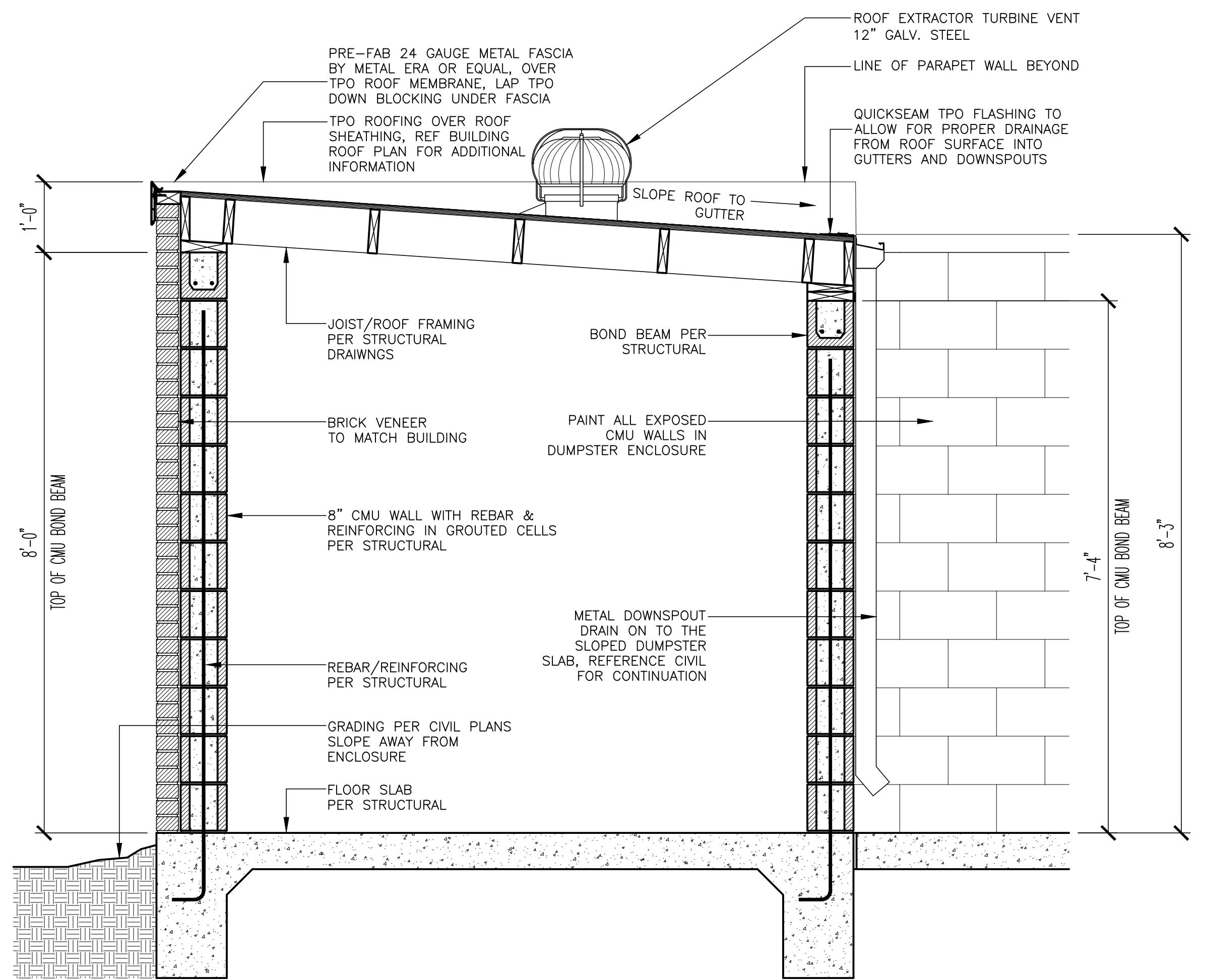
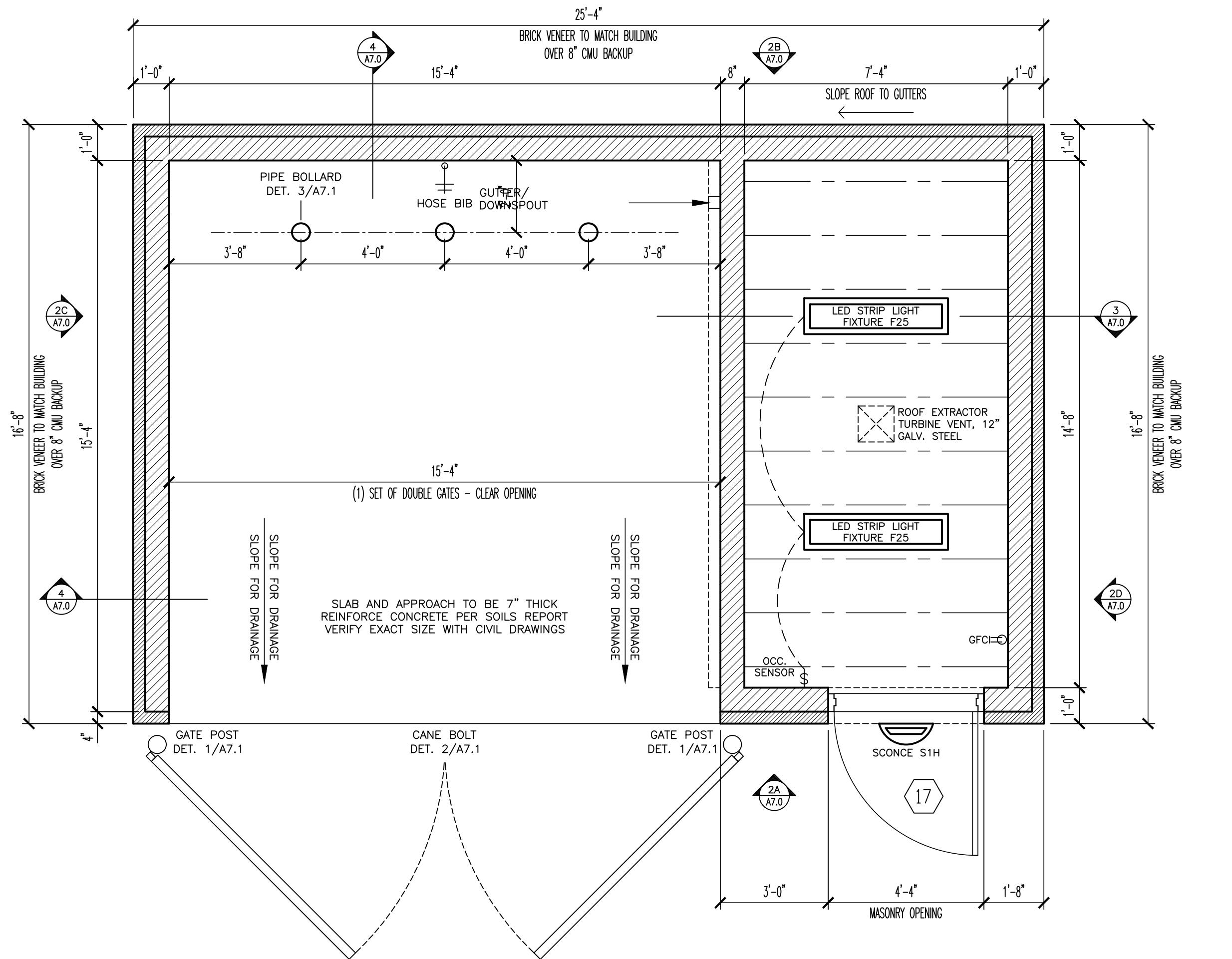
CEILING: USG - FROST CLIMPLAUS 534 CHARCOAL 24"x24". PAINT GRID TO MATCH TILE.

*TITLE OPTION FOR HEALTH CODE: WAINSOT - ICG ITALIA MA.DE UNI GRIGIO 12"x24". TILE COVE BASE - ICG ITALIA UNI GRIGIO 6"x12".

9. ALL DECOR ELEMENTS MANUFACTURED BY DECOR TO BE PURCHASED AND INSTALLED BY GC, UNO.

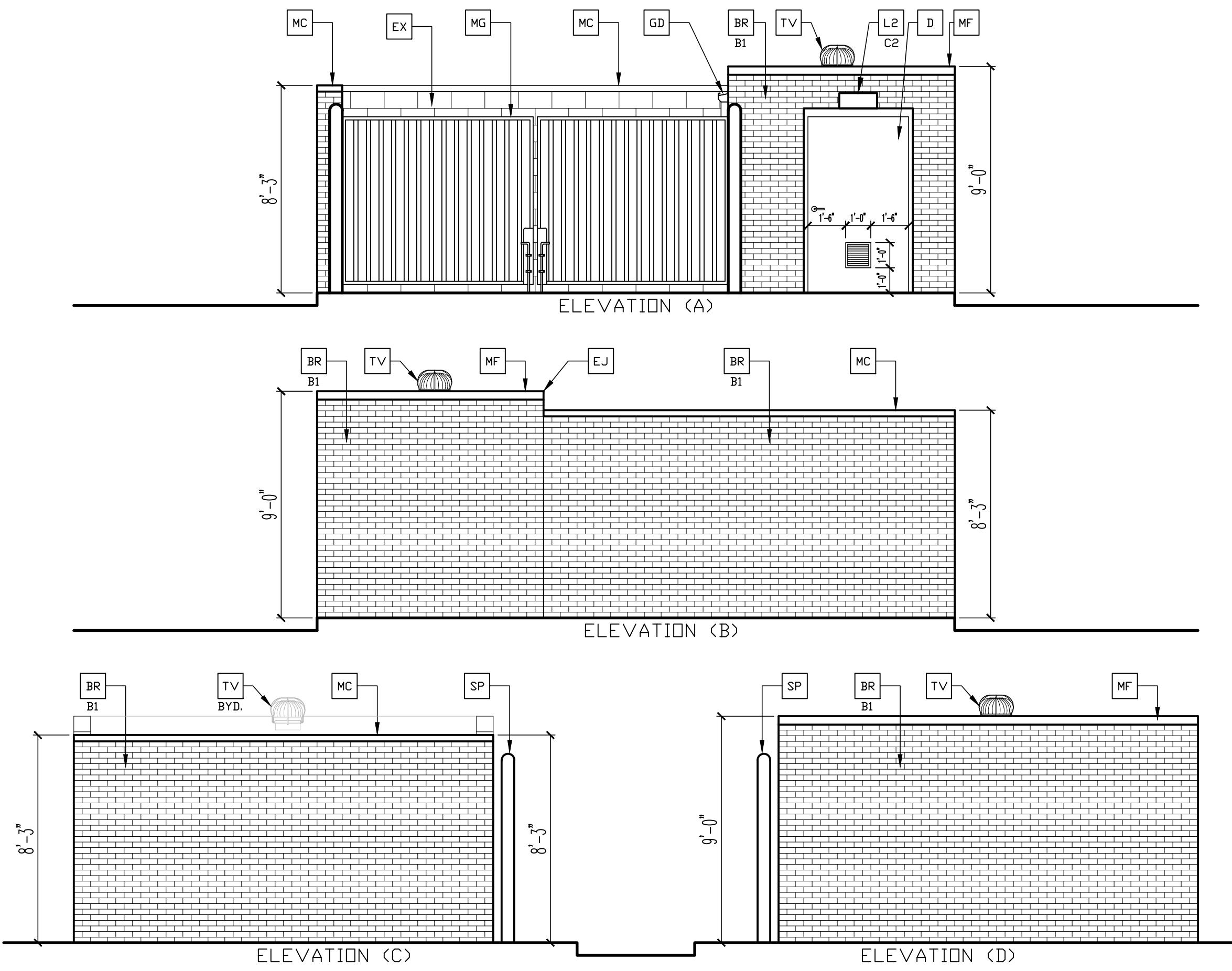
ROOM FINISH SCHEDULE - LUNA

MARK	ROOM NAME	SUBSTRATE	FINISH	CEILING *	REMARKS
100	CUSTOMER SERVICE	CEMENT BOARD	TILE **	TILE AS NOTED ON A1.1 AND A3.1	
101	DINING	CEM BD/GYP BD	TILE/V.W.C. **	SEE DINING ROOM FINISH SCHEDULE	
102	WOMEN'S TOILET	CEMENT BOARD	TILE	PAINTED GYP. BD.	BENJAMIN MOORE - "OC-17 WHITE DOVE"
103	MEN'S TOILET	CEMENT BOARD	TILE	PAINTED GYP. BD.	BENJAMIN MOORE - "OC-17 WHITE DOVE"
104	SUPPORT	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS	SEE NOTE 5 FOR WALL FINISH EXCEPTIONS
105	KITCHEN	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	SEE SHEET A1.0 FOR EXTENT OF CEMENT BOARD, SS OR CT
106	PRESENTER-1	CEMENT BOARD	TILE	TILE AS NOTED ON A1.1	
107	ORDER	CEMENT BOARD	TILE	2'x2' VINYL-FACED LAY-IN	
108	MANAGER'S AREA	CEMENT BOARD	TILE	2'x2' VINYL-FACED LAY-IN	
109	CREW ROOM	CEM BD/GYP BD	TILE/V.W.C. **	2'x2' ACoust. LAY-IN	SEE NOTE 8
110	COOLER	N/A	PRE-FAB METAL SKIN PANEL	PRE-FAB METAL SKIN PANEL	BASE SUPPLIED BY KES
111	FREEZER	N/A	PRE-FAB METAL SKIN PANEL	PRE-FAB METAL SKIN PANEL	BASE SUPPLIED BY KES
112	COMPUTER CLOSET	CEMENT BOARD	TILE	STAINLESS STEEL CORNERS, TILE OVER CEM BD AS NOTED ON A1.1	PAINTED GYP. BD.
113	CREW ALCOVE	CEMENT BOARD	TILE	2'x2' VINYL-FACED LAY-IN	SEE SHEET A1.1 FOR EXTENT OF CEMENT BOARD, SS OR CT
114	JANITOR'S CLOSET	CEMENT BOARD	TILE	PAINTED GYP. BD.	EXT GRADE PLYWOOD (NOTE 4) SEE NOTE 5A
115	VESTIBULE	CED BD/GYP BD	TILE/V.W.C.	SEE DINING ROOM FINISH SCHEDULE	OPTIONAL PEDIMAT. SEE DETAIL 7/A6.1. VERIFY WITH MCD CONSTRUCTION MANGER AT CEILING
116	PRESENTER-2	CEMENT BOARD	TILE	2'x2' VINYL-FACED LAY-IN	SEE NOTE 7
117	CO2	CEMENT BOARD	TILE	PAINTED GYP. BD.	SEE NOTE 7

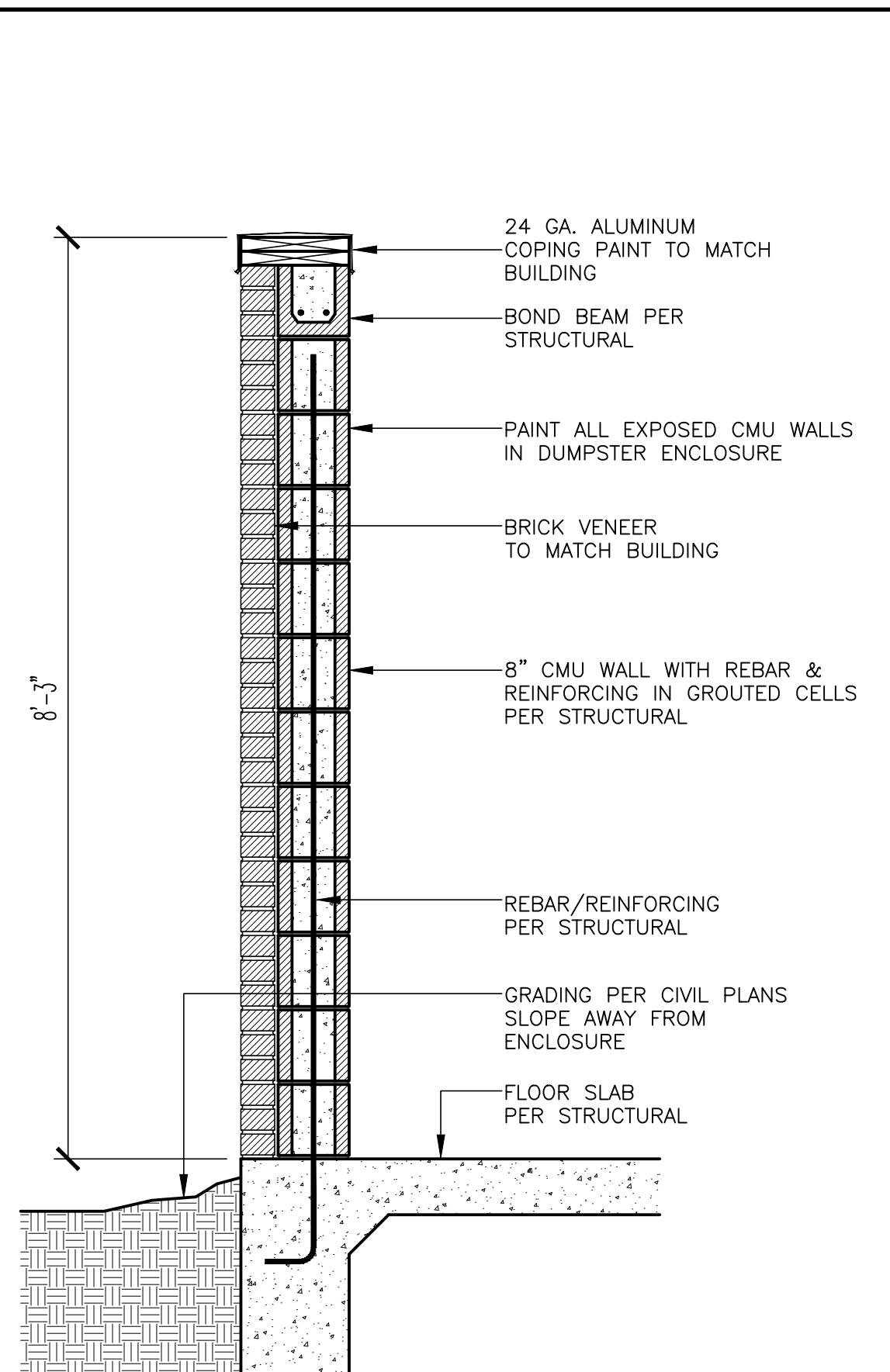


1 DUMPSTER ENCLOSURE PLAN SCALE 3/8"=1'-0"

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



2 DUMPSTER ELEVATIONS SCALE 1/4"=1'-0"



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

KEY NOTES:

- BR** MODULAR FACE BRICK
BI COLOR:
B1 = "SILVERADO" SMOOTH BY HEBRON BRICK COMPANY
- D** HOLLOW METAL DOOR
PAINT: "FAIRVIEW TAUPE" HC-85 BY BENJAMIN MOORE
- EJ** EXPANSION JOINT, SEE DETAIL 7/A4.1
- MF** METAL FASCIA - PRE-FAB ANCHOR-TITE FASCIA
COLOR: RAL 7022
- MC** 24 GAUGE ALUMINUM COPING OVER CMU
ENCLOSURE WALLS COLOR TO MATCH "MF"
- SP** STEEL CONCRETE FILLED POST - PAINT TO MATCH
BUILDING TRIM COLOR RAL 7022
- MG** METAL DUMPSTER ENCLOSURE ENTRY GATES, REF
DETAILS AND NOTES (COLOR RAL 7022)
- GD** METAL GUTTERS AND DOWNSPOUT - DRAIN INTO
DUMPSTER ENCLOSURE DRAIN COLOR TO MATCH "MF"
- L2** RADIAL SCONCE LIGHT FIXTURE - SEE ELECTRICAL
COLOR: PLATINUM SILVER
C2
- EX** GC TO PAINT EXPOSED CMU BLOCK (INSIDE
ENCLOSURE) TO MATCH RAL 7022

GENERAL NOTES:

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

5/8" PUDLE WELD B/N DECK & ALL ANGLE TYPICAL IN EACH
DECK FLUTE, PROVIDE #12 SCREWS @ 6" O.C. AT ALL DECK'S
SIDE LAPS.

GENERAL CONTRACTOR TO SUPPLY AND INSTALL CORRUGATED
HEX. GAGE (1/8 GAUGE) F-DECKING, ALL METAL TO BE
PRIMED AND PAINTED TO MATCH THE BUILDING TRIM COLOR,
VERIFY WITH ACM.

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

ELECTRICAL NOTES:

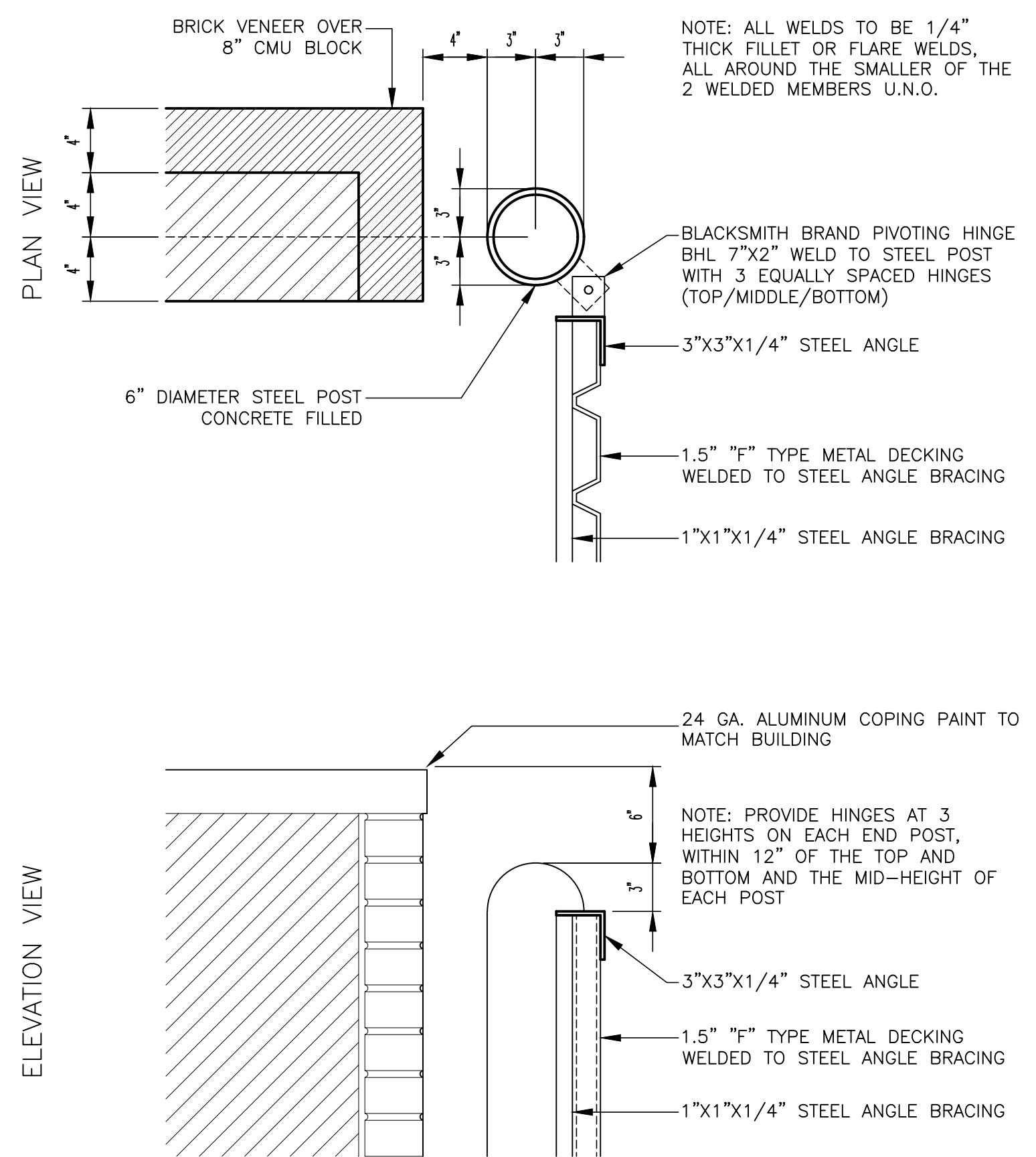
OCCUPANCY SENSOR: GC TO PROVIDE A WALL MOUNTED OCCUPANCY SENSOR, REF
ELECTRICAL PLANS FOR MORE INFORMATION.
GC TO INSTALL NEW STRIP LIGHT FIXTURE, PER MANF.'S RECOMMENDATIONS. F25 -
42W LED BY COLUMBIA LIGHTING #LCL4-40ML-EDU.
GC TO PROVIDE A 20A, 120V, RECEPTACLE WITHIN 25 FEET OF THE HVAC
EQUIPMENT, PER CODE.
ALL LIGHTING/POWER SHALL BE CONNECTED TO AN APPROPRIATE CIRCUIT IN THE
MAIN BUILDING PANELS, VERIFY CIRCUITING PRIOR TO ROUGH-IN.

McDonald's USA, LLC

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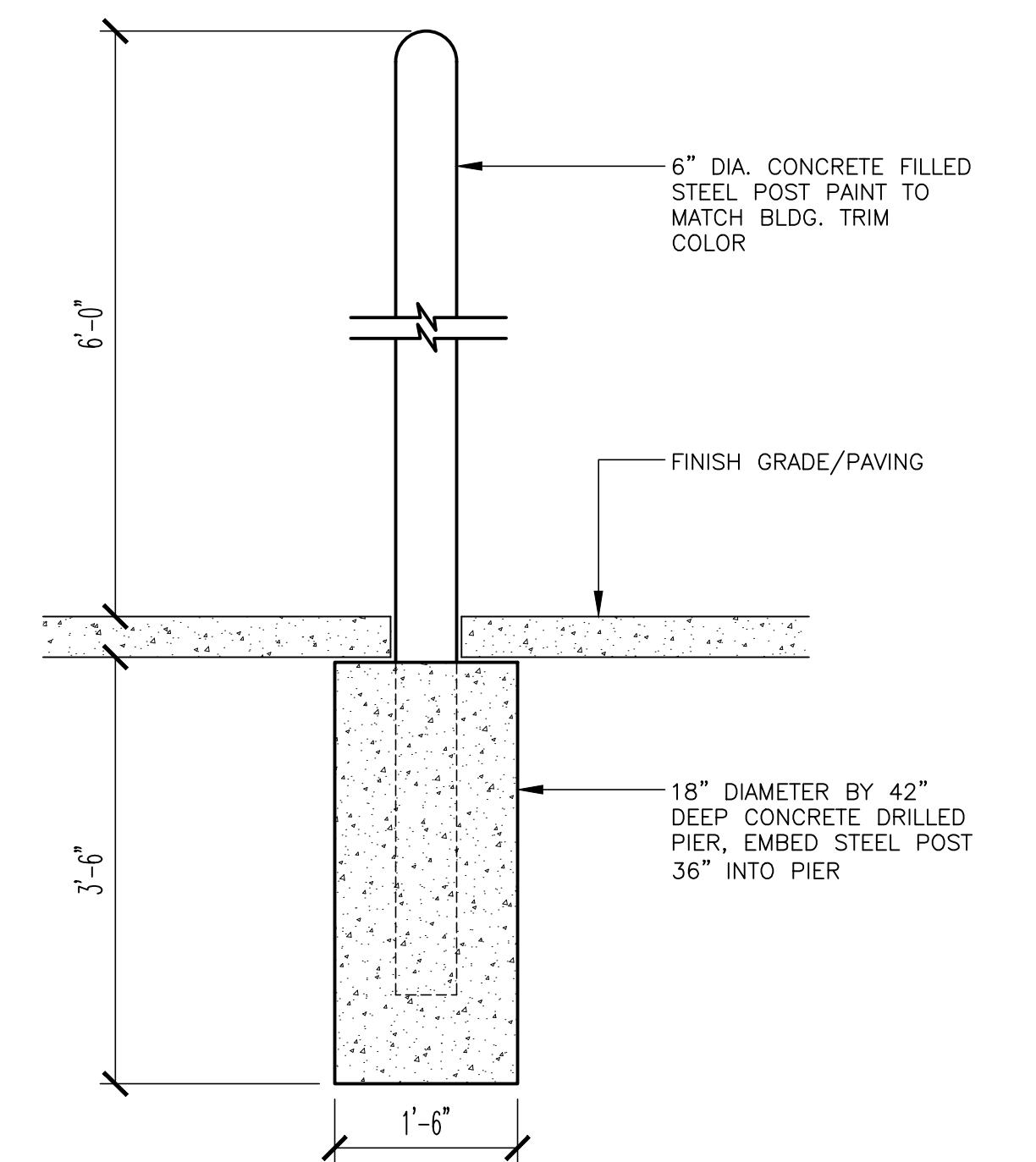
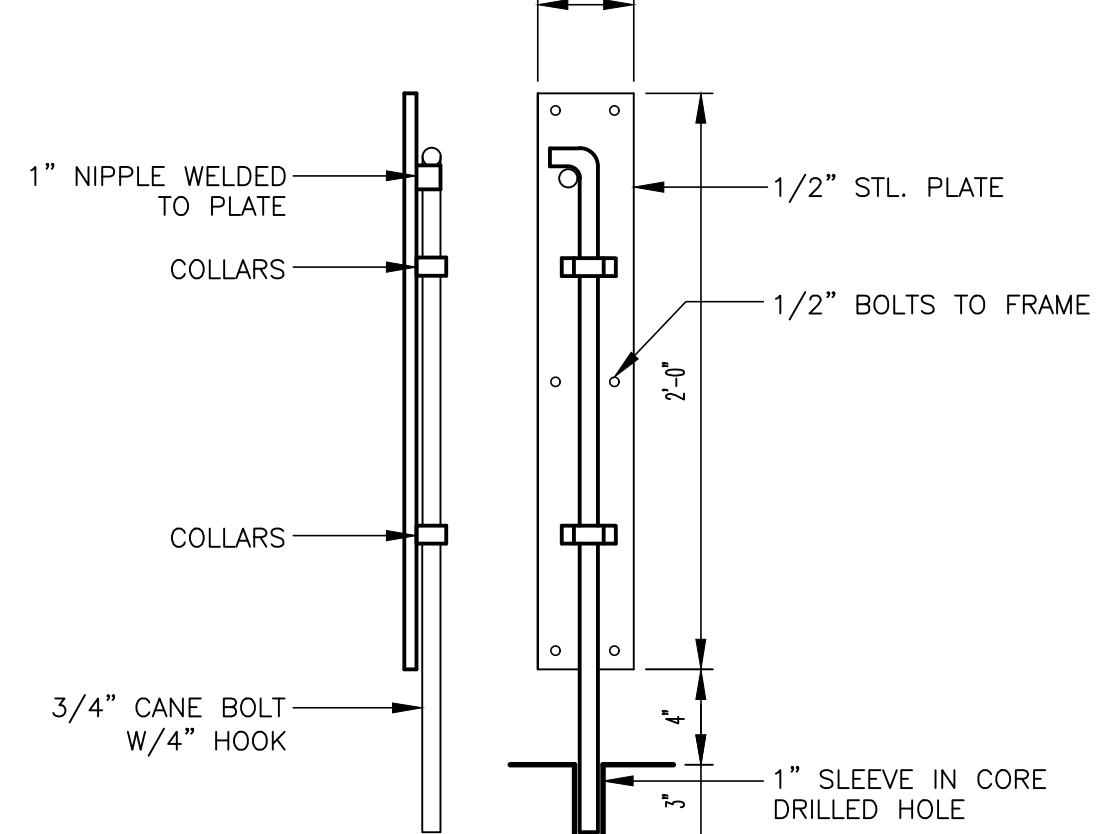
SHEET NO.	TITLE	DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED	DESCRIPTION	SITE ADDRESS	SITE ID
A7.0	2025 STANDARD BUILDING - BB20 4584-WOOD/WOOD	JAW	2025	JAW	02/14/2025	WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD ROOF TRUSS FRAMING STUCCO/BATTEN/METAL/STONE/BRICK EXTERIOR FINISHES NEC I-20 & UNIVERSITY HILLS BLVD, LANCASTER TEXAS	24-0220	042-3651

A7.0



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

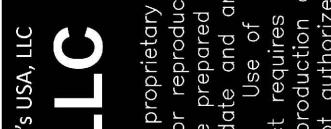
2 CANE BOLT DETAIL SCALE 1-1/2"=1'-0"



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

PREPARED BY:

McDonald's USA, LLC



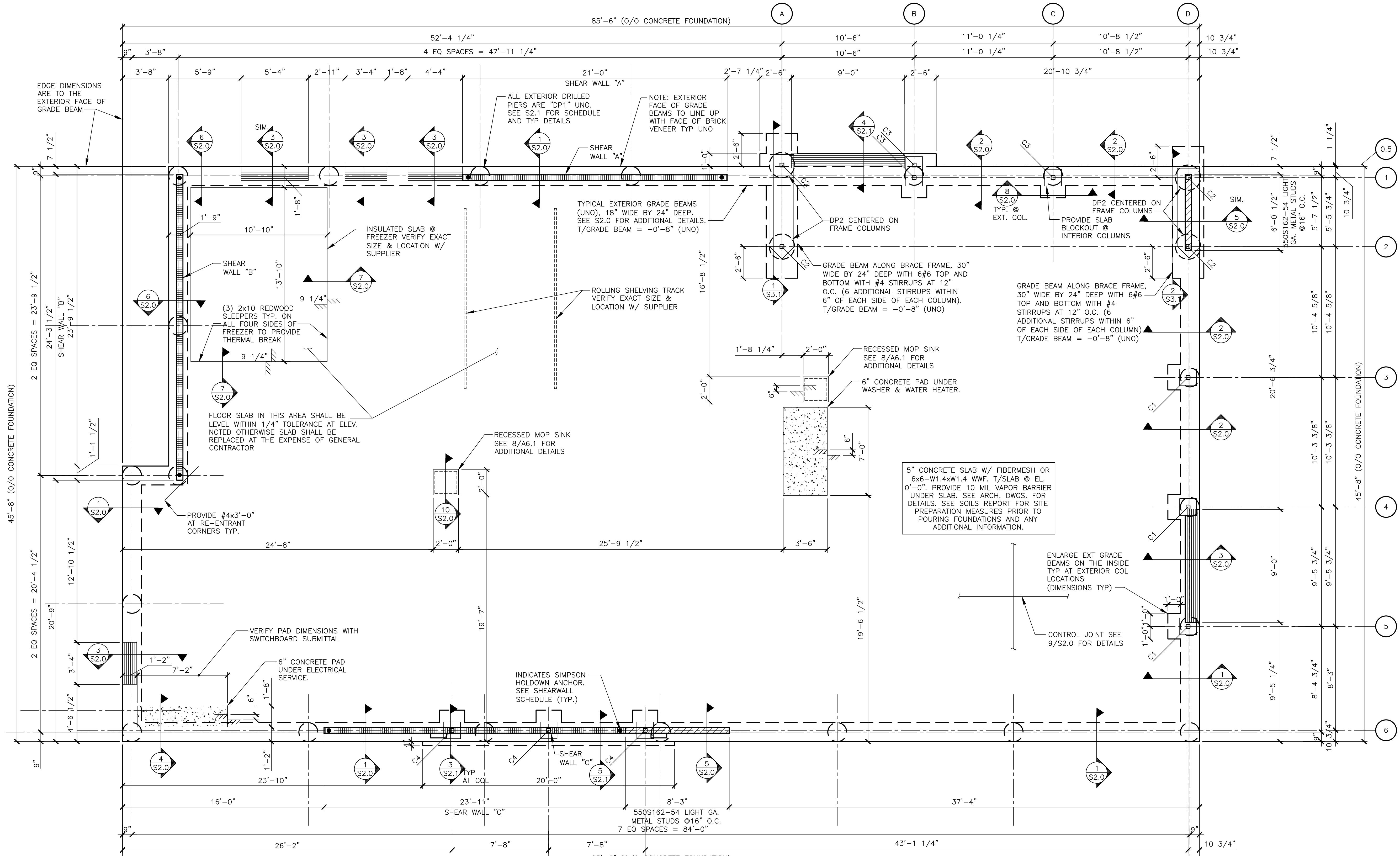
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REV. DATE

BY

</div



FOUNDATION PLAN

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

- INDICATES METAL STUD FRAME WALL

NOTES:

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

COLUMN & BASE PLATE SCHEDULE

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

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



**Signed/Sealed:
02/13/2025**

McDonald's USA, LLC

McDonald's USA, LLC

2025 STANDARD BUILDING – BB20		STD ISSU 202	REVIEWED AF	DATE IS 02/14/
DESCRIPTION WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD ROOF TRUSS FRAMING STUCCO/BATTEN/METAL/STONE/BRICK EXTERIOR FINISHES				
SITE ID 042-3651	SITE ADDRESS NEC I-20 & UNIVERSITY HILLS BLVD, LANCASTER TEXAS			
JAWA 24-0220				

rubix
www.rubix.com
Rubix Consultants, LLC
1401 South Dearborn
Chicago, IL 60616
(312) 602-4411
TX Firm Reg No. 14032



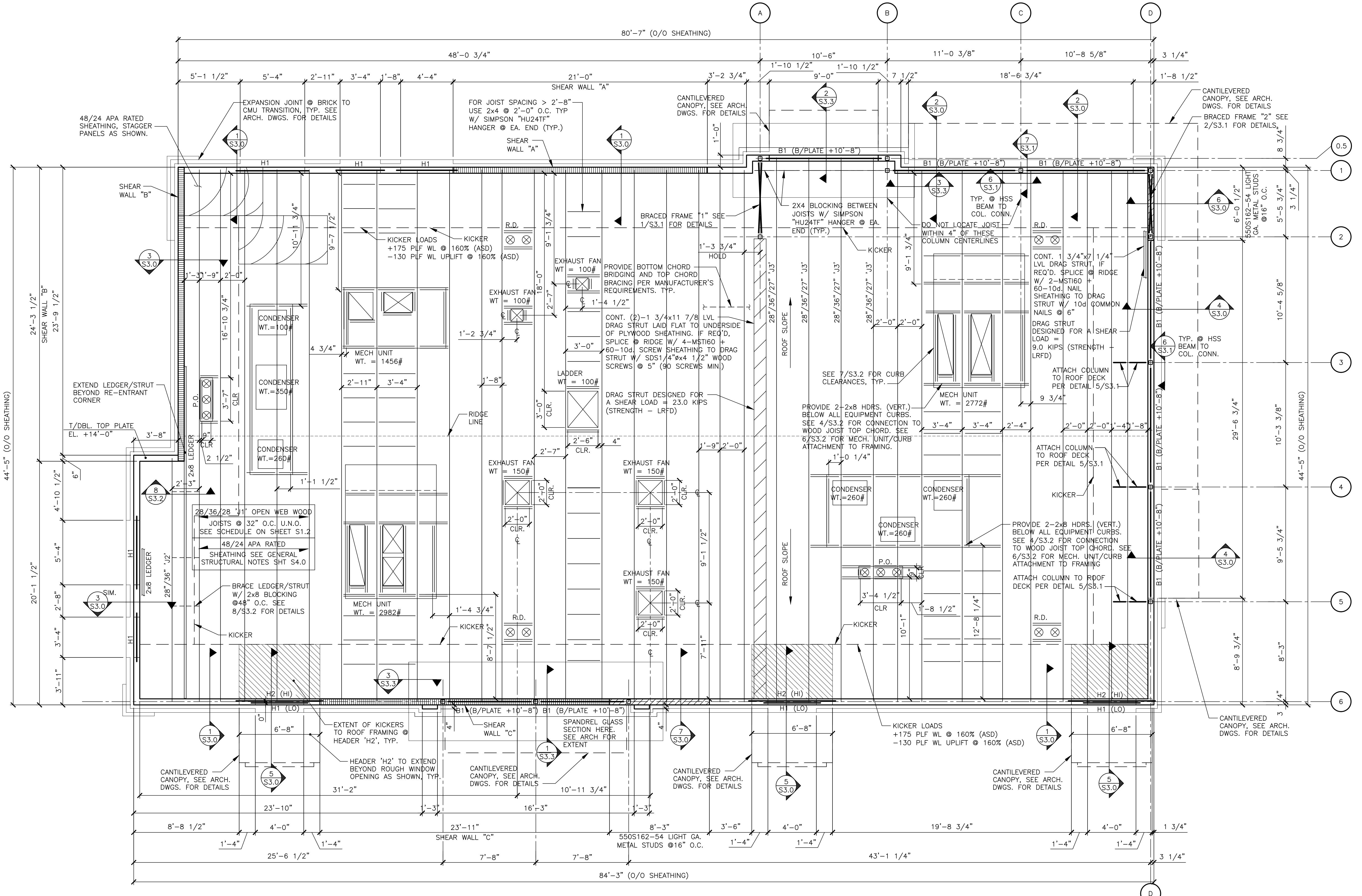
Signed/Scaled:
02/13/2025

McDonald's USA, LLC

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S1.2
FRAMING PLAN

SHEET NO.	TITLE	DRAWN BY
042-3651	JAWA 24-0220 4584-WOOD/WOOD	MIR
	STD ISSUE DATE	2025
	REVIEWED BY	AP
	DATE ISSUED	02/14/2025
	STOCK/BATEN/MAUL/STONE/BRICK EXTERIOR FINISHES	

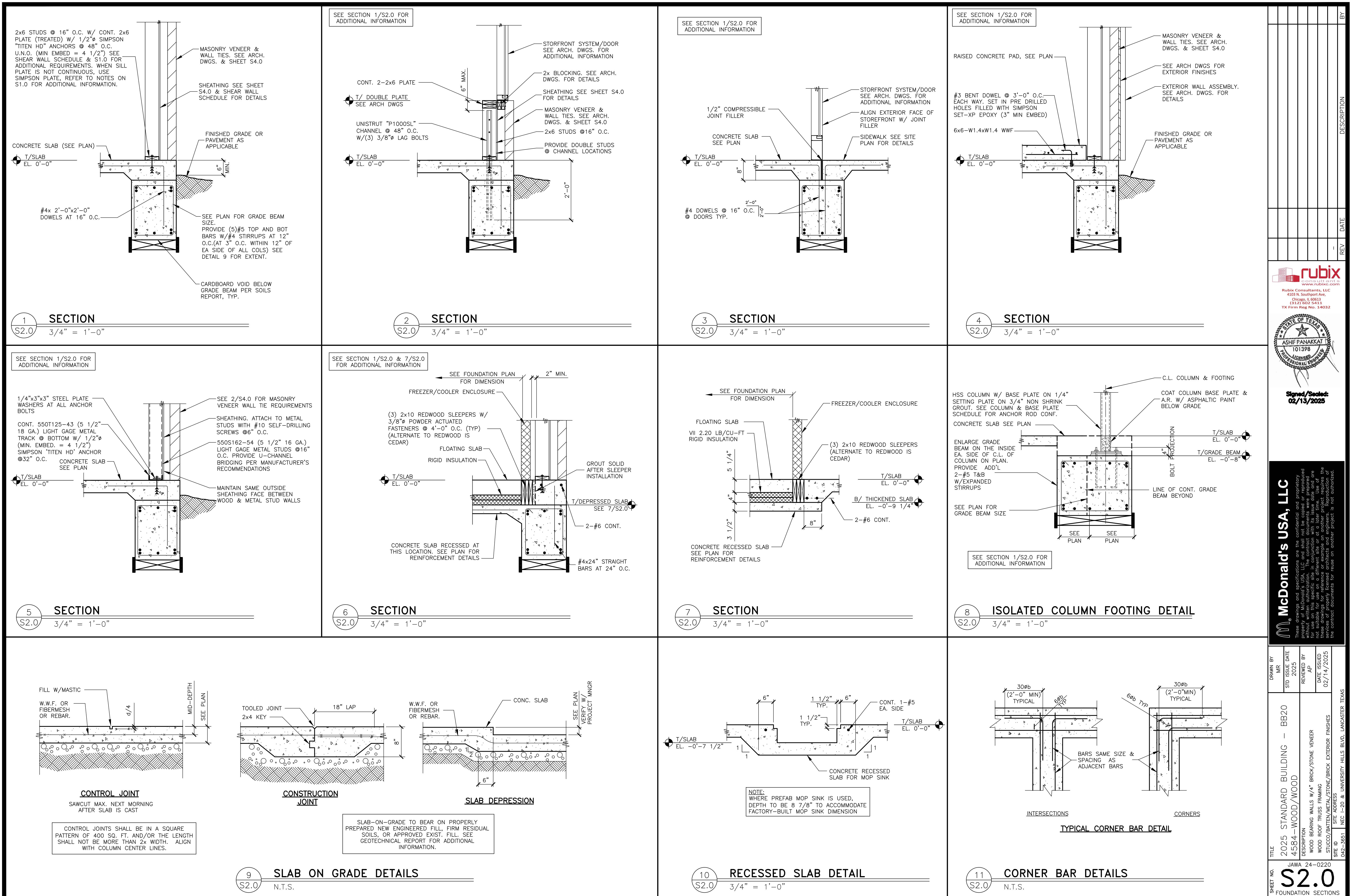


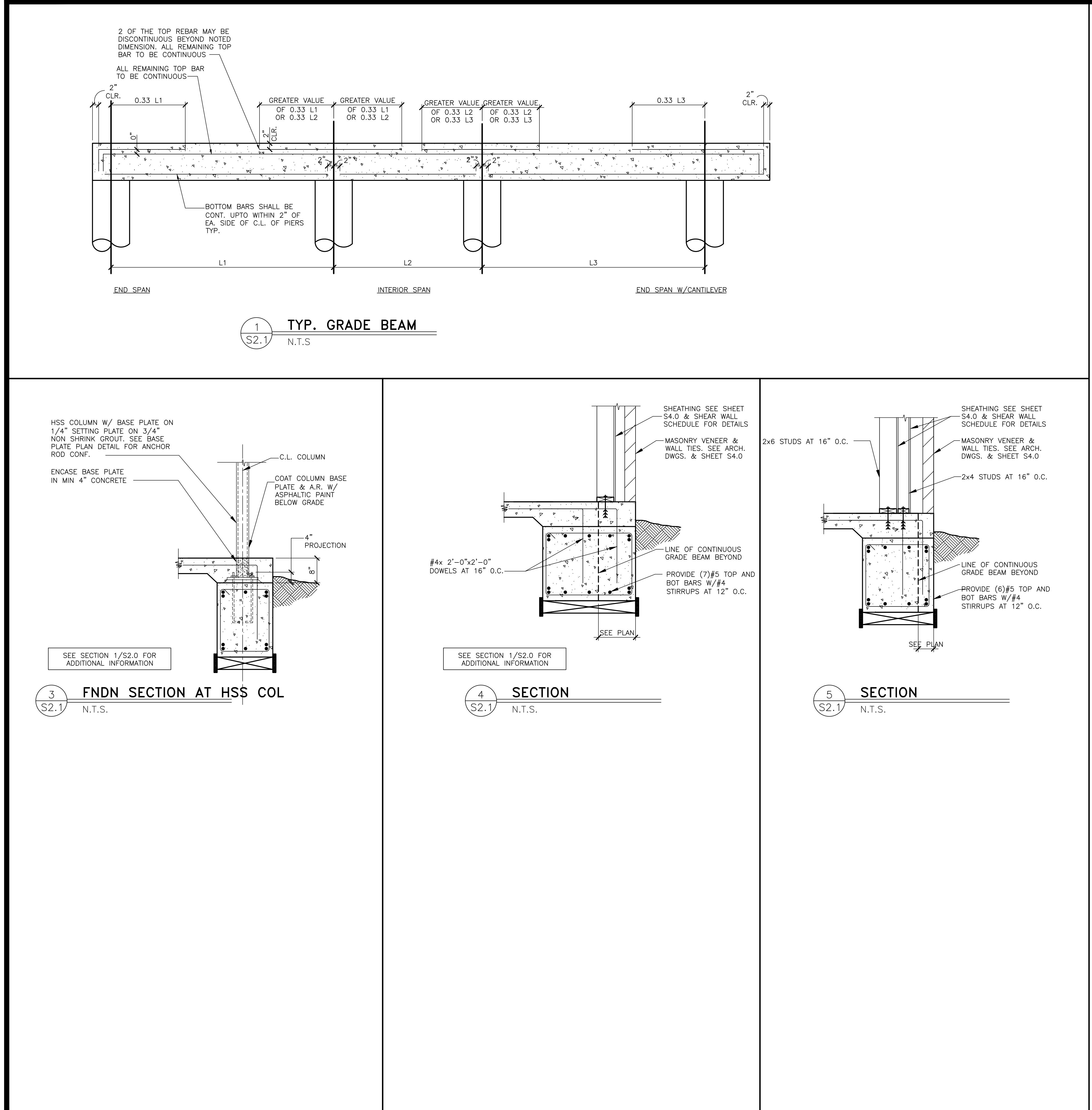
BEAM SCHEDULE				
MARK	MEMBER	SHAPE	SUPPORT	REMARKS
B1	HSS16x4x1/4 LLV + 1/4" PLATE	□	1/2" END PLATE	SEE DETAIL 6/S3.1

HEADER SCHEDULE			
MARK	MEMBER	SHAPE	BEARING
H1	5 1/4"x9 1/2" LVL + L5x3 1/2x5/16 LLV	☒	SEE DETAIL 2/S3.2 6" @ BRG. ANGLE
H2	5 1/4"x11 7/8" LVL	☒	SEE DETAIL 5/S3.0 & 2/S3.2

JOIST SCHEDULE			
MARK	LIVE/ROOF SNOW LOAD	DEPTH	MANUFACTURER & SERIES
J1	20/5	28"/36"/28"	REDBUILT "RED-S"
J2	20/5	28"/36"	REDBUILT "RED-S"
J3	20/5	28"/36"/27"	REDBUILT "RED-S"

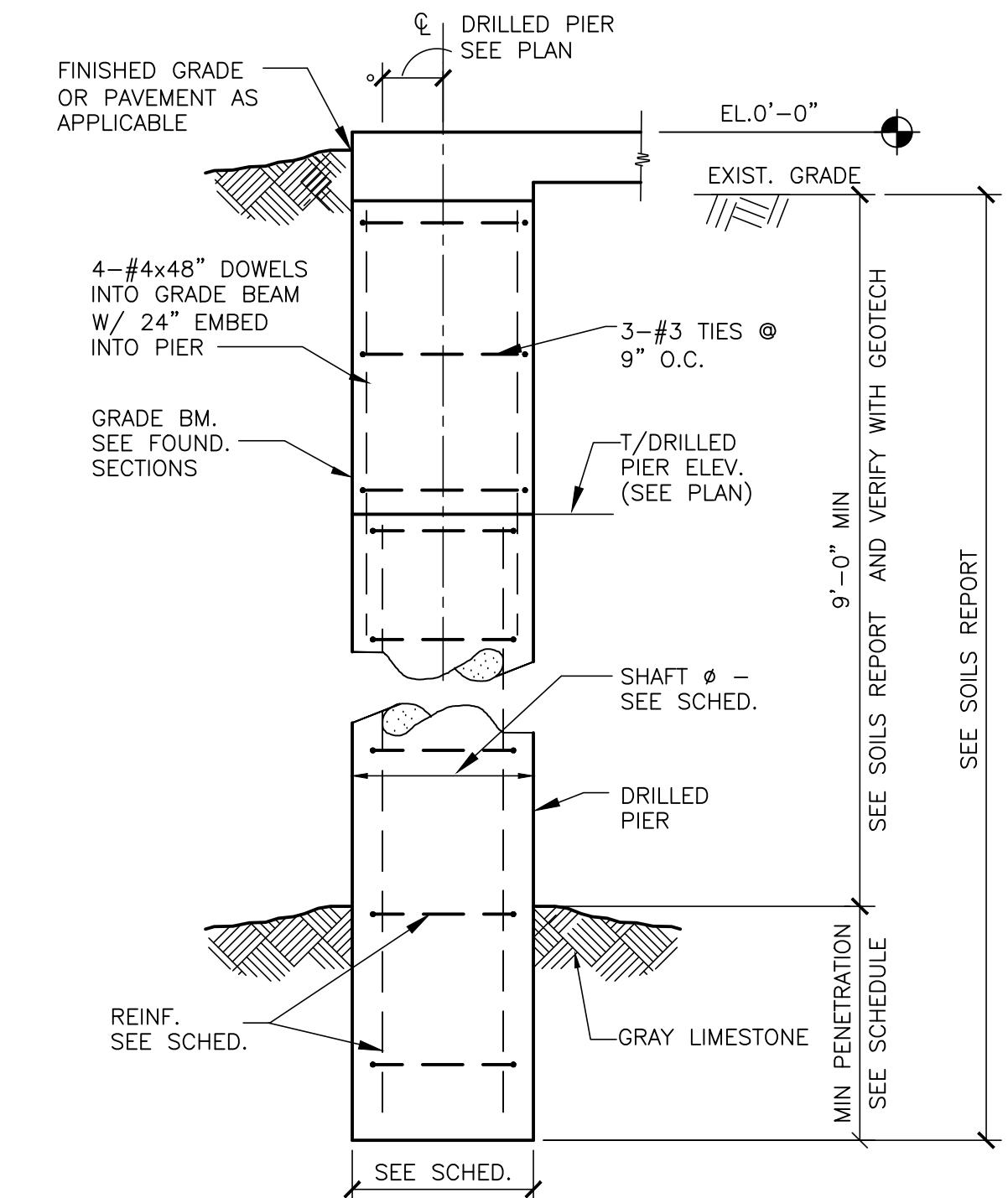
NOTE: SEE DETAIL 4/S3.2 FOR JOIST DETAILS AND SUPPLIER INFORMATION





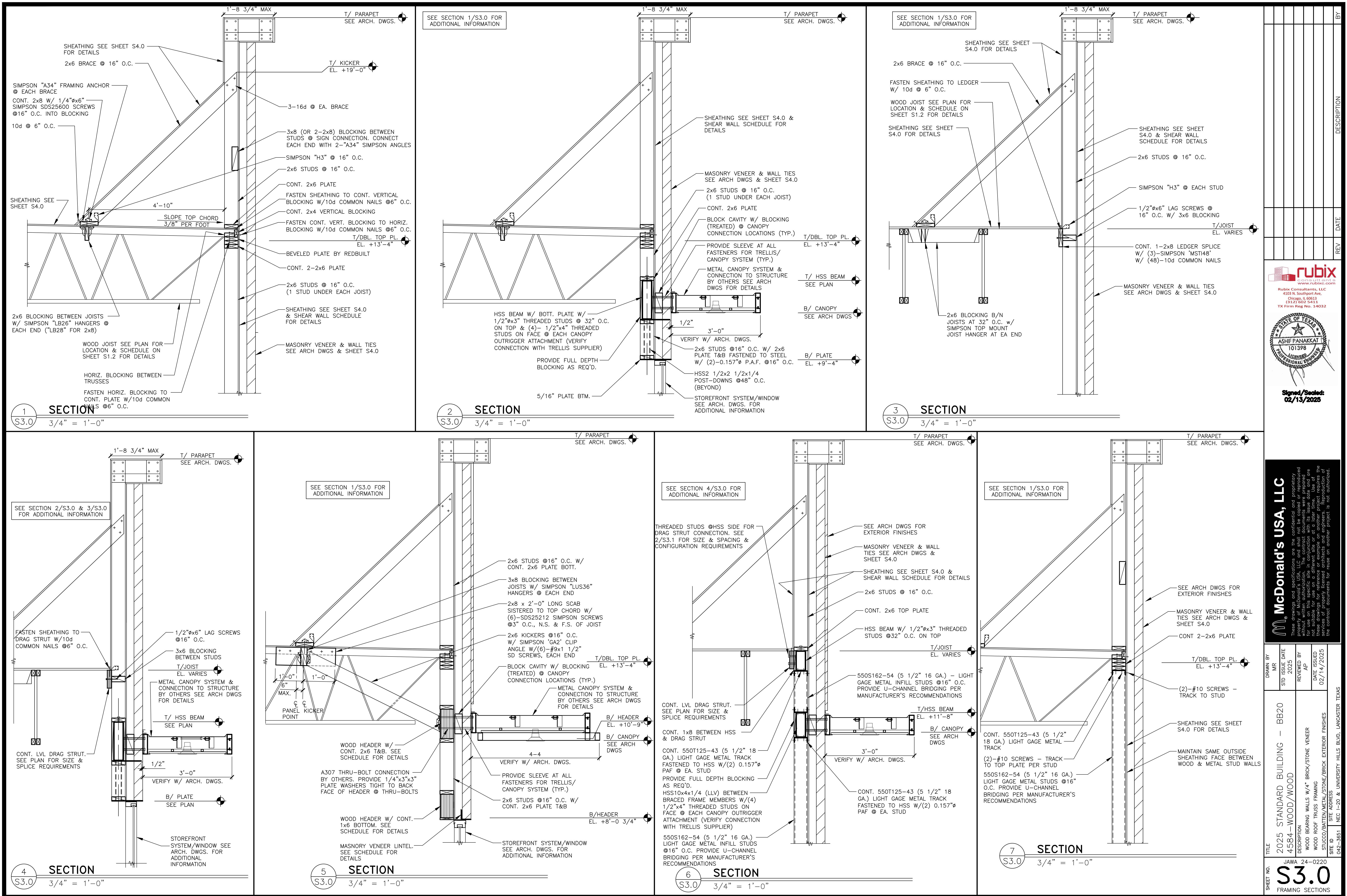
DRILLED PIER SCHEDULE

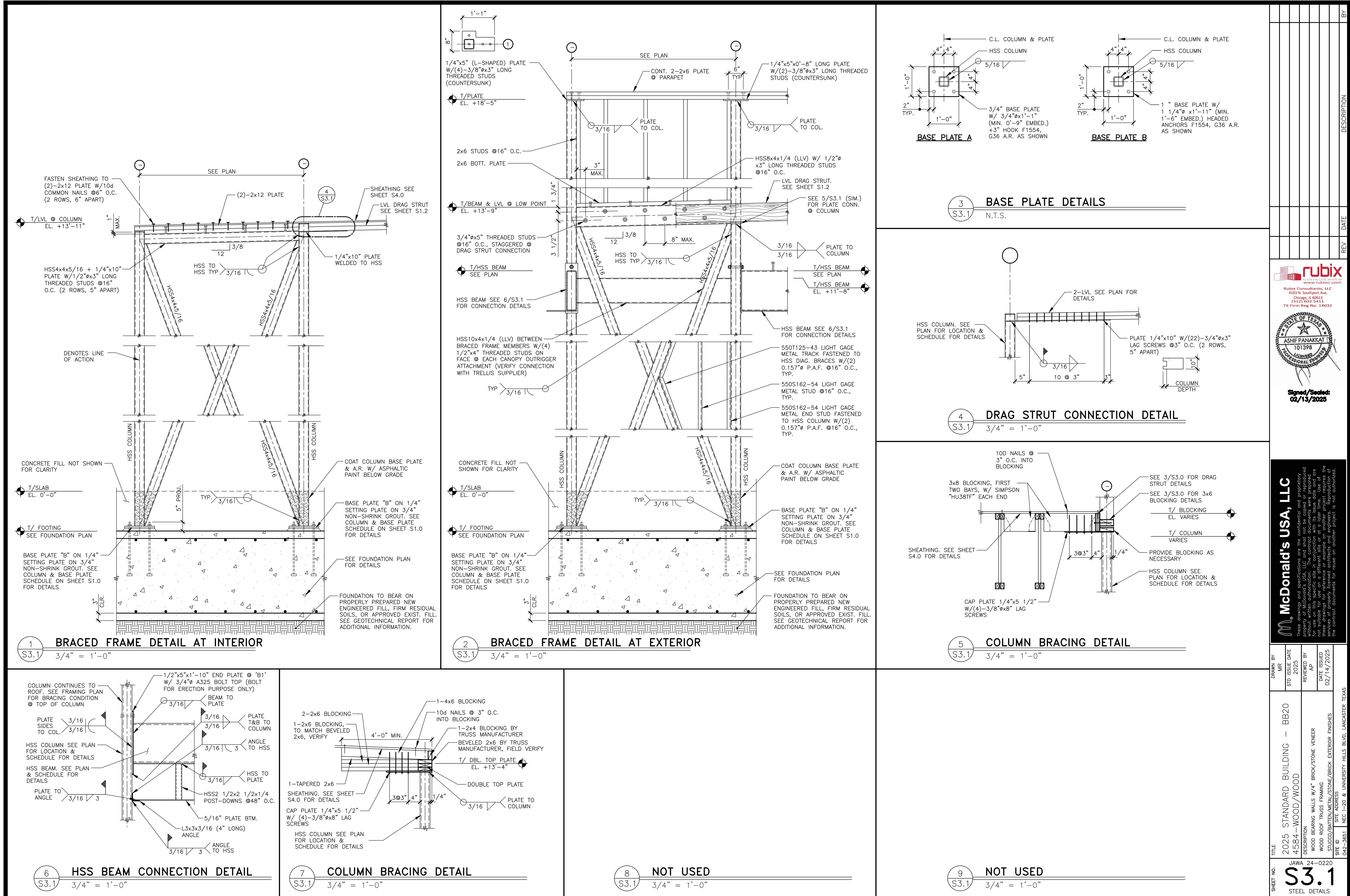
PROVIDE 3'-0" LAP SPLICE FOR VERTICAL
BARS AS REQUIRED + #3 TIES @ 4"

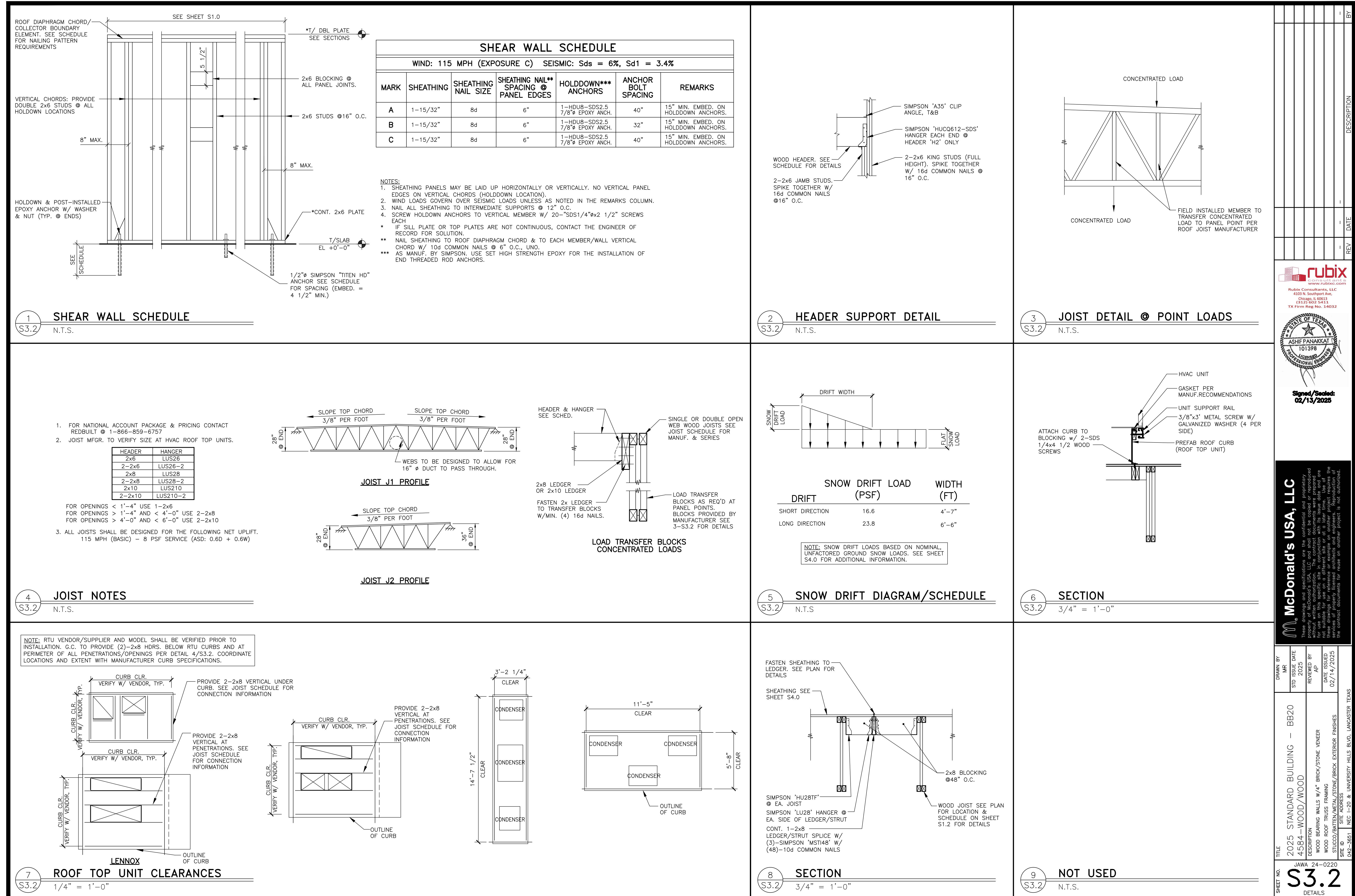


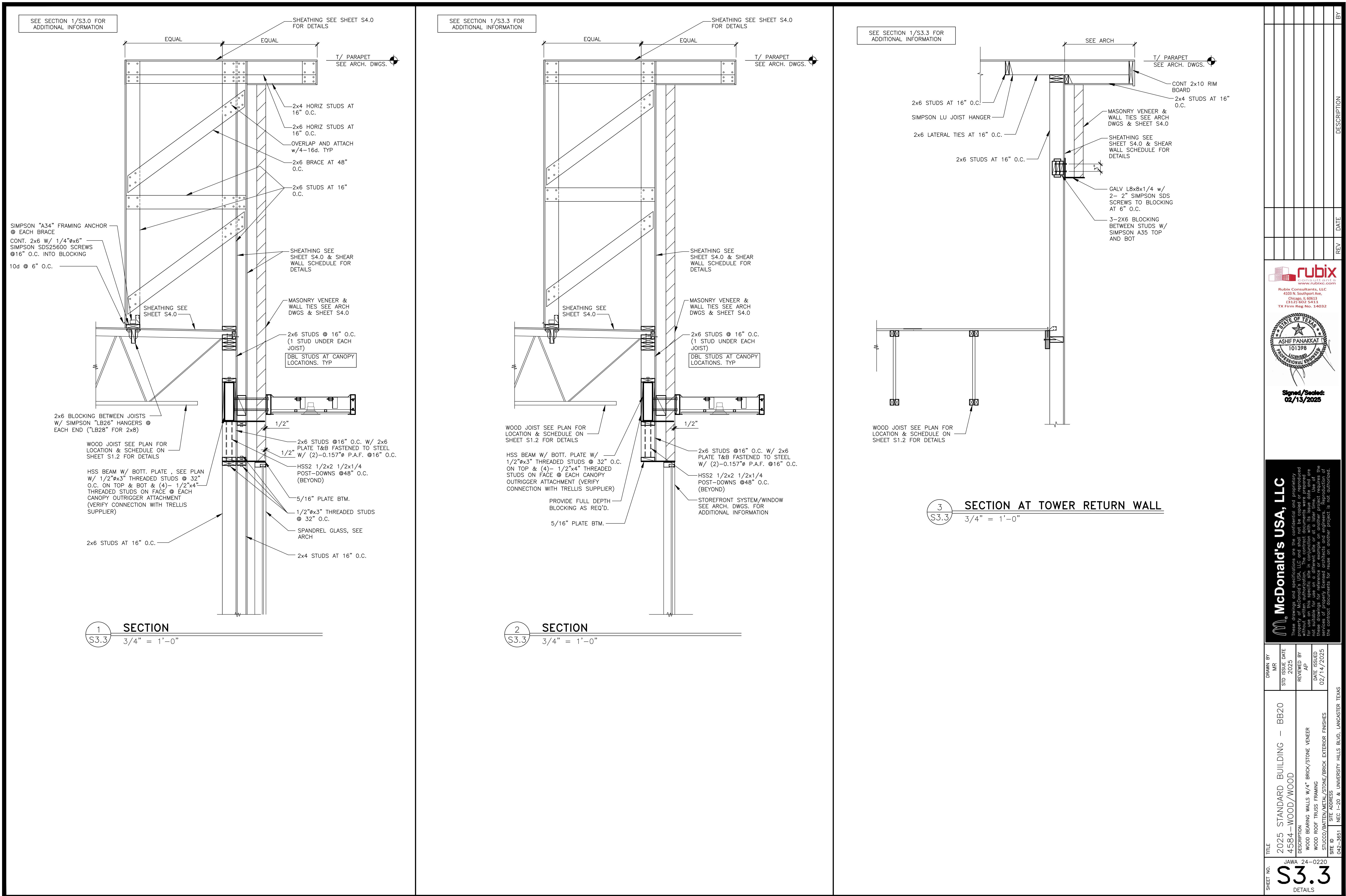
TYP DRILLED PIER



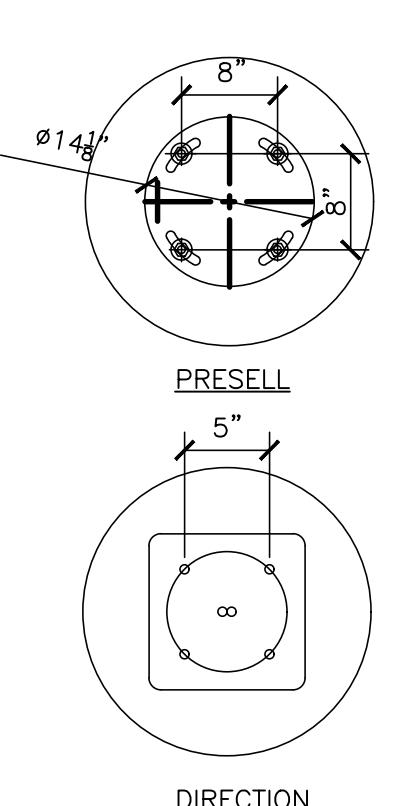




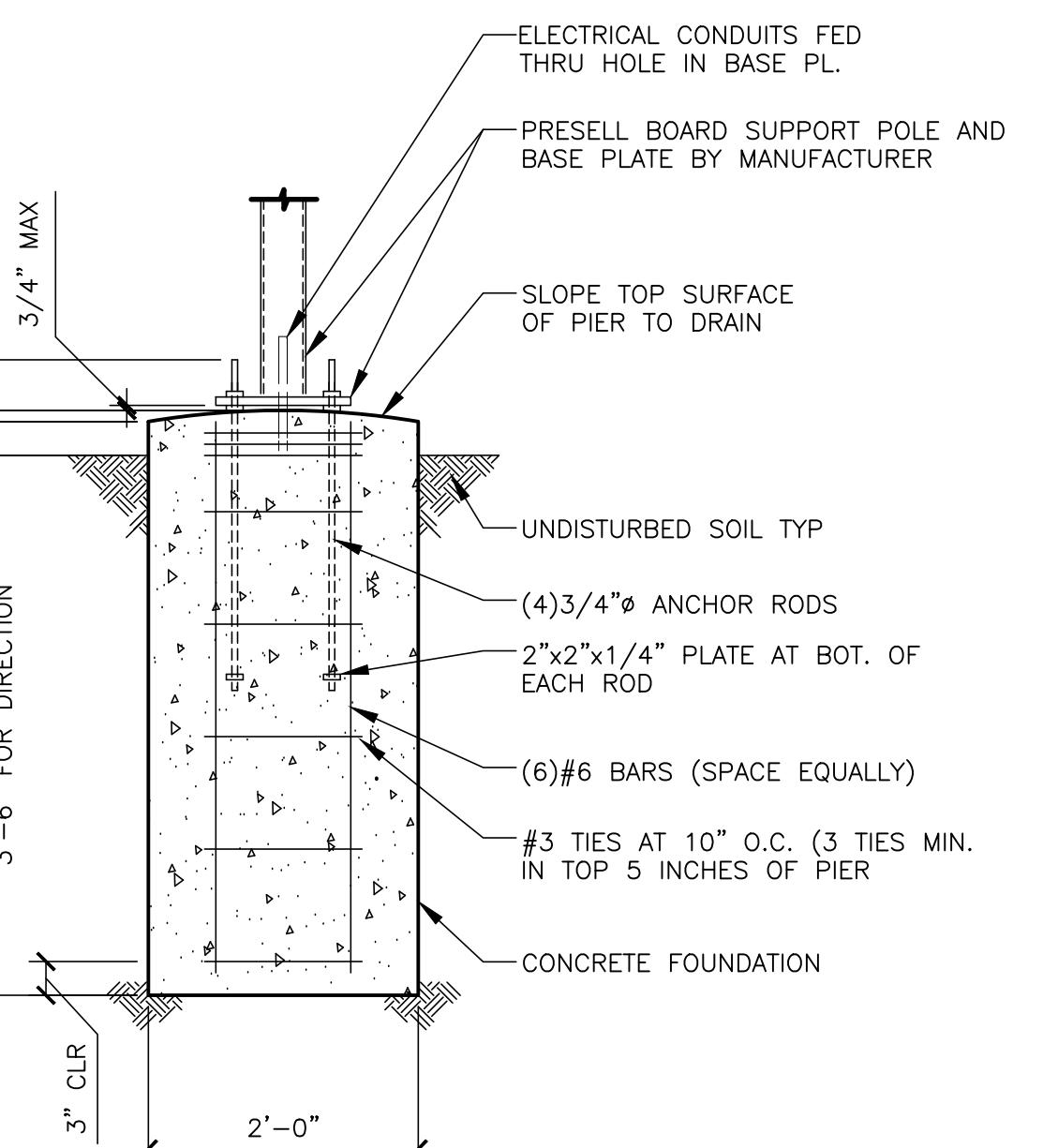




SHEET NO.	TITLE	DRAWN BY	REV.	DATE	DESCRIPTION
S3.4	JAVA 24-0220 SITE ELEMENTS DETAILS	McDonald's USA, LLC Rubix Consultants, LLC 4103 N. Cicero Ave. Chicago, IL 60613 (312) 602-5413 TX Firm Reg No. 14032	rubix rubixconsultants.com	02/13/2025	



ANCHOR BOLT PATTERN



PIER SECTION DETAIL

1 FOUNDATION FOR PRESELL & DIRECTION BOARD

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

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

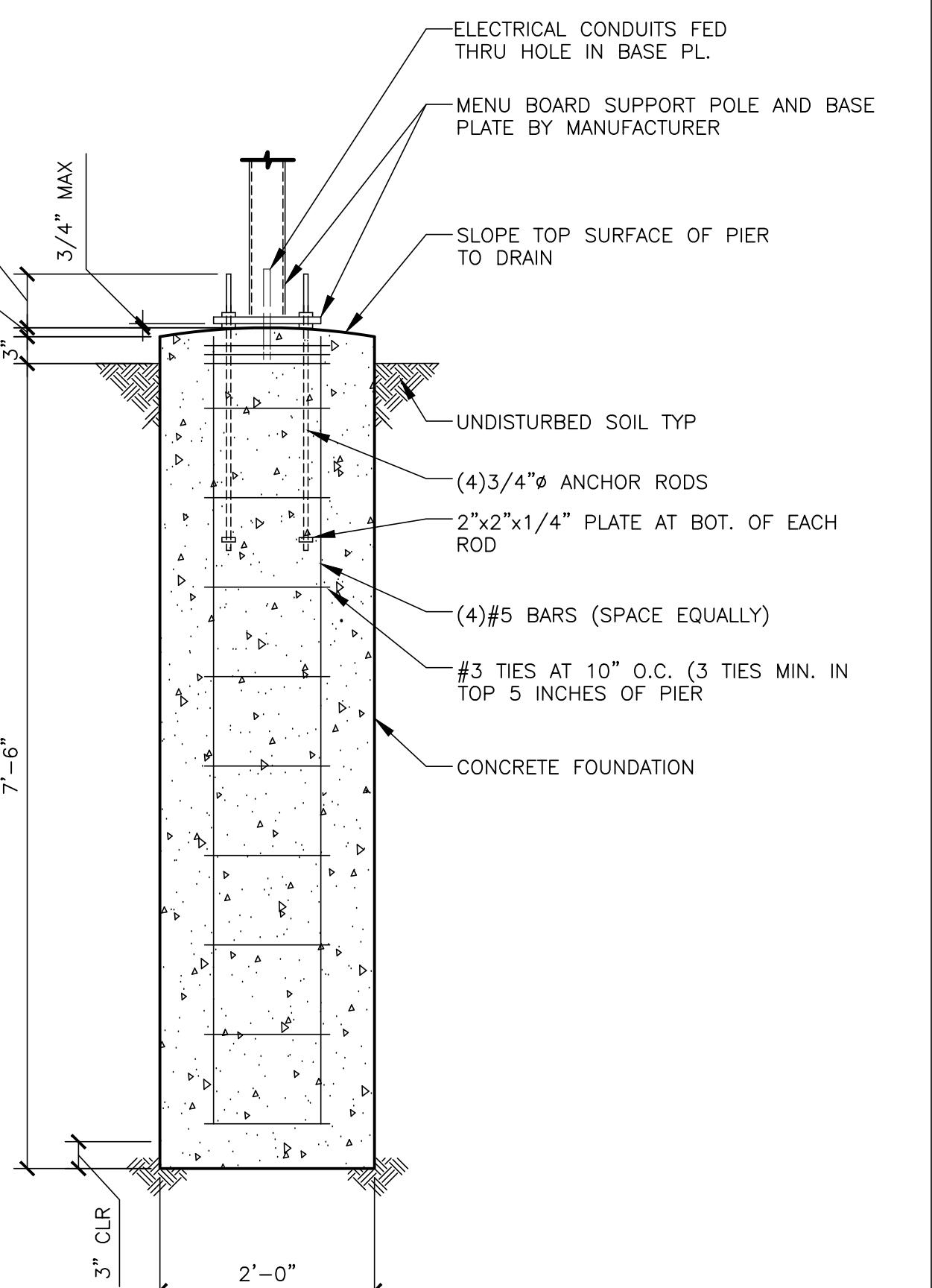
2 FOUNDATION FOR MENU BOARD

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

- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN LOADS DERIVED FROM CODES AND FORCES
- AXIAL - 850#
- SH - 1,310#
- MOMENT - 14,500#
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPAKTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E. PERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE
- DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS

PIER SECTION DETAIL

ANCHOR BOLT PATTERN



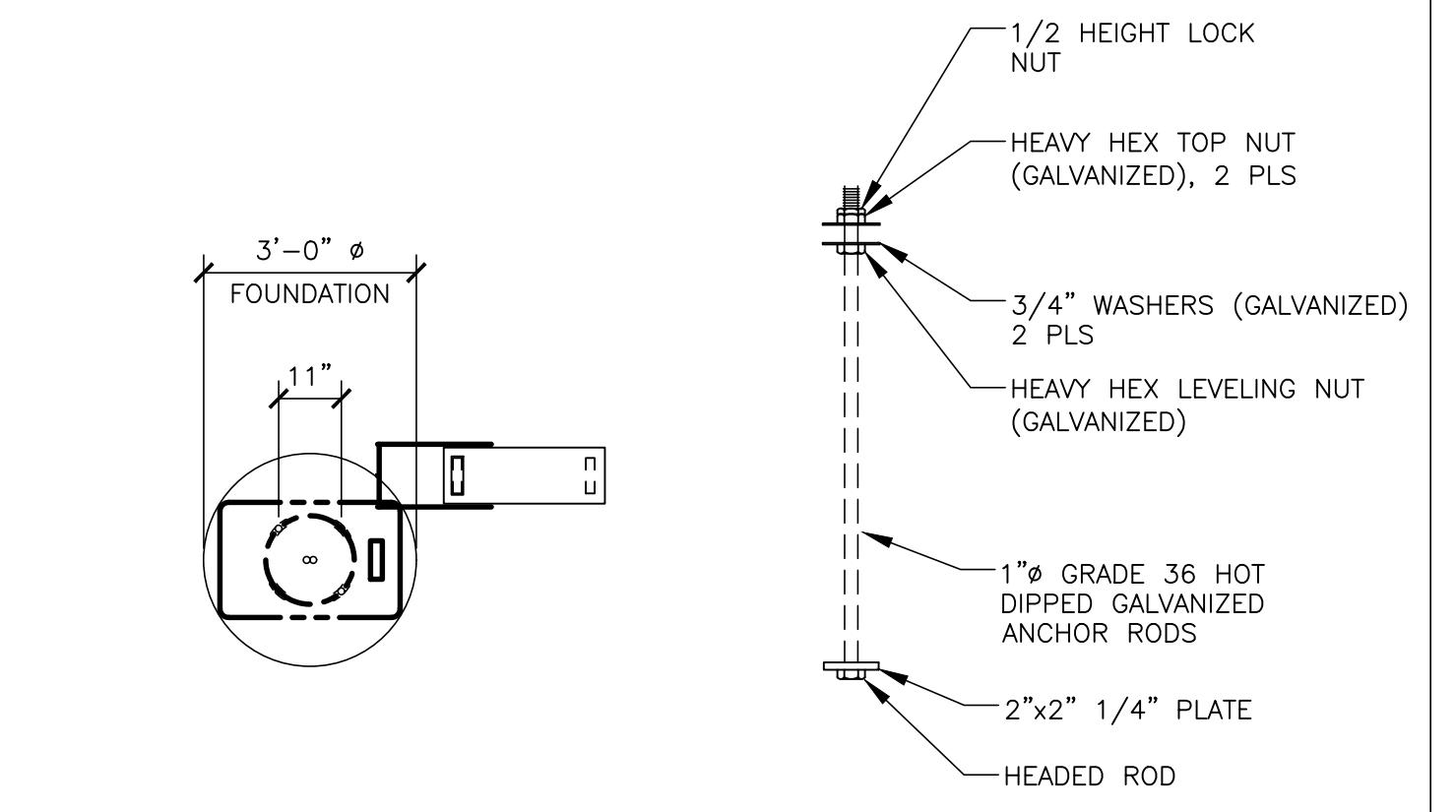
PIER SECTION DETAIL

3 FOUNDATION FOR "ORDER HERE" BOARD

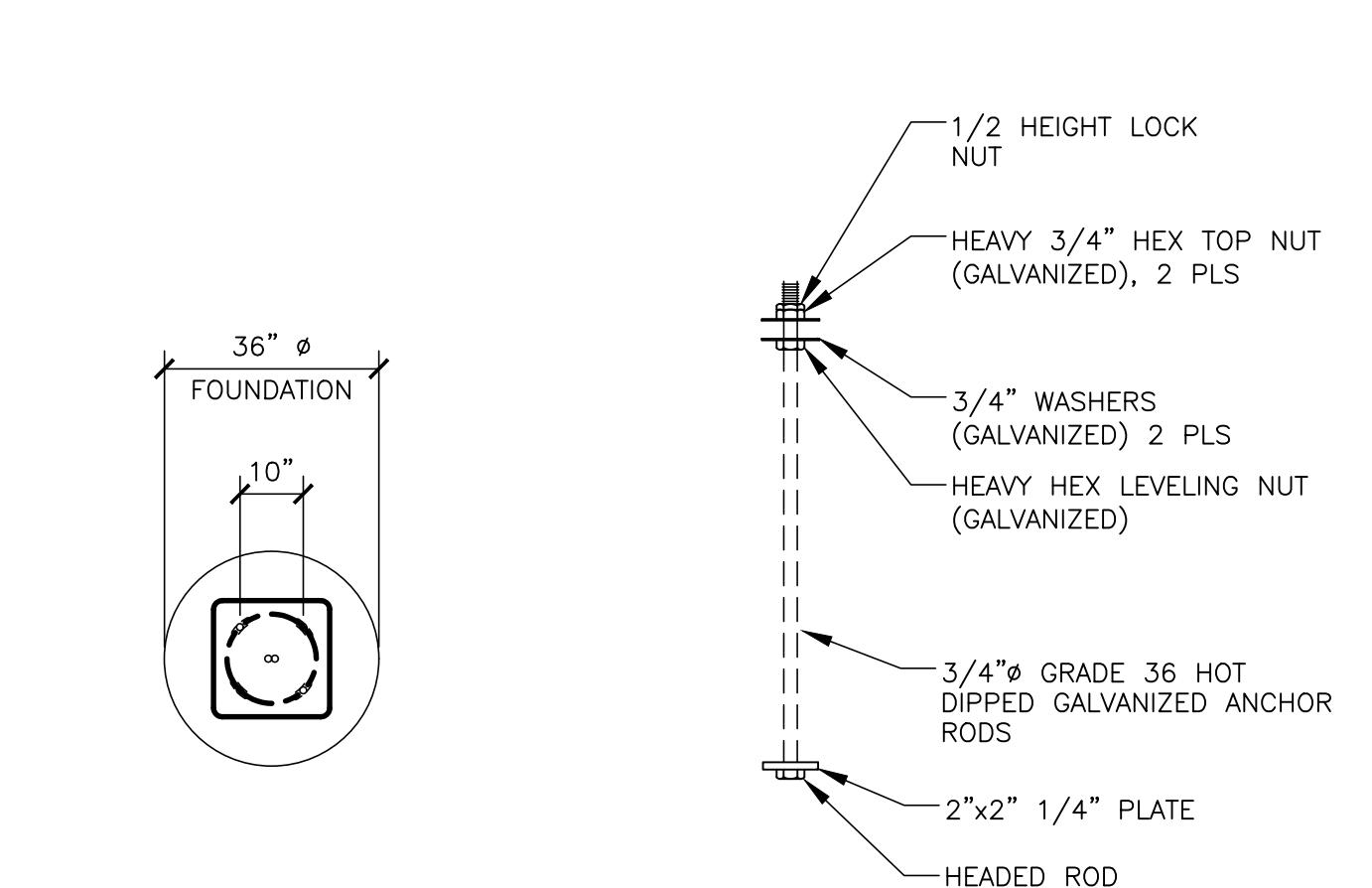
S3.4 3/4" = 1'-0"

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

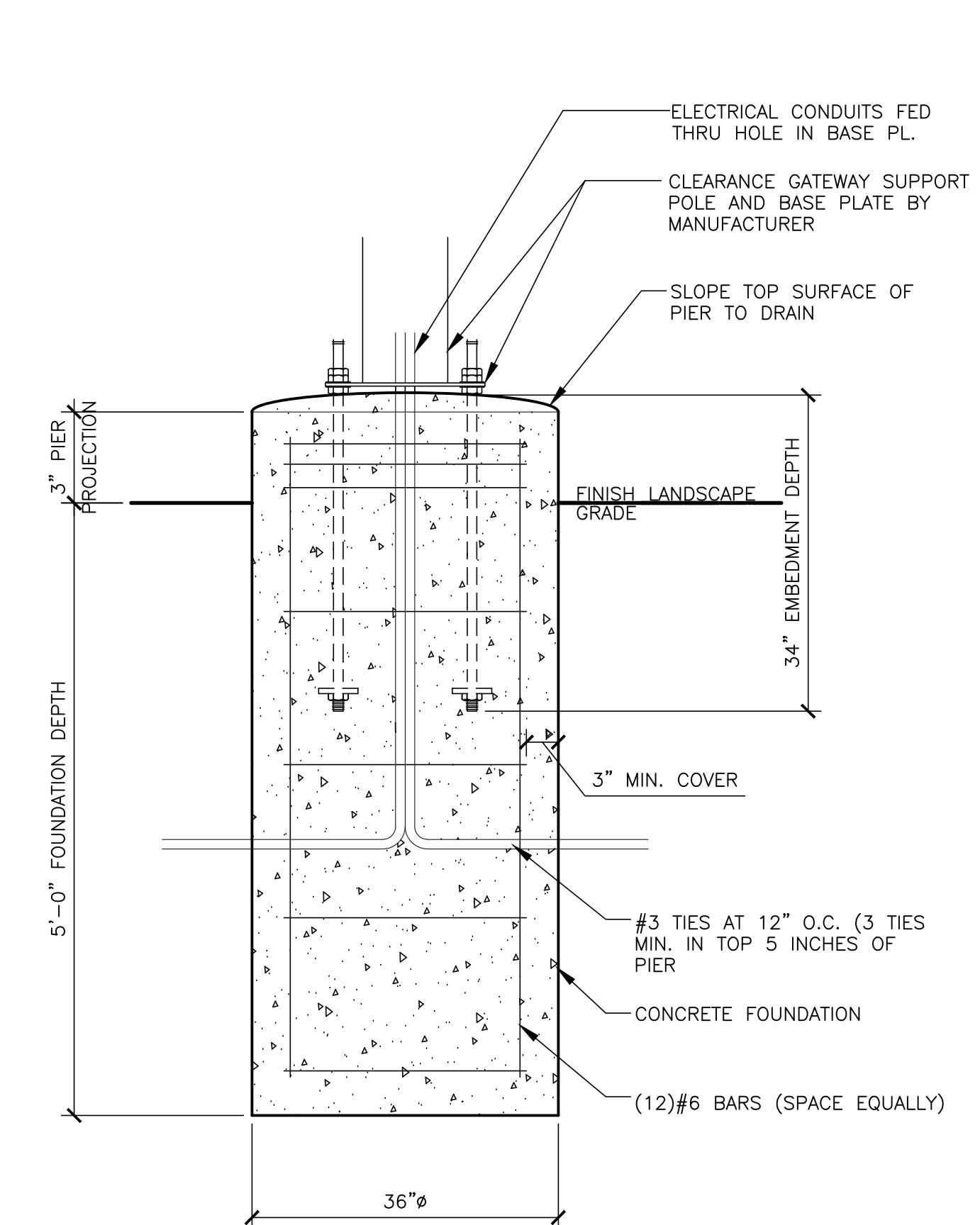
PIER SECTION DETAIL



ANCHOR BOLT PATTERN



ANCHOR BOLT PATTERN



4 FOUNDATION FOR CLEARANCE GATEWAY

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

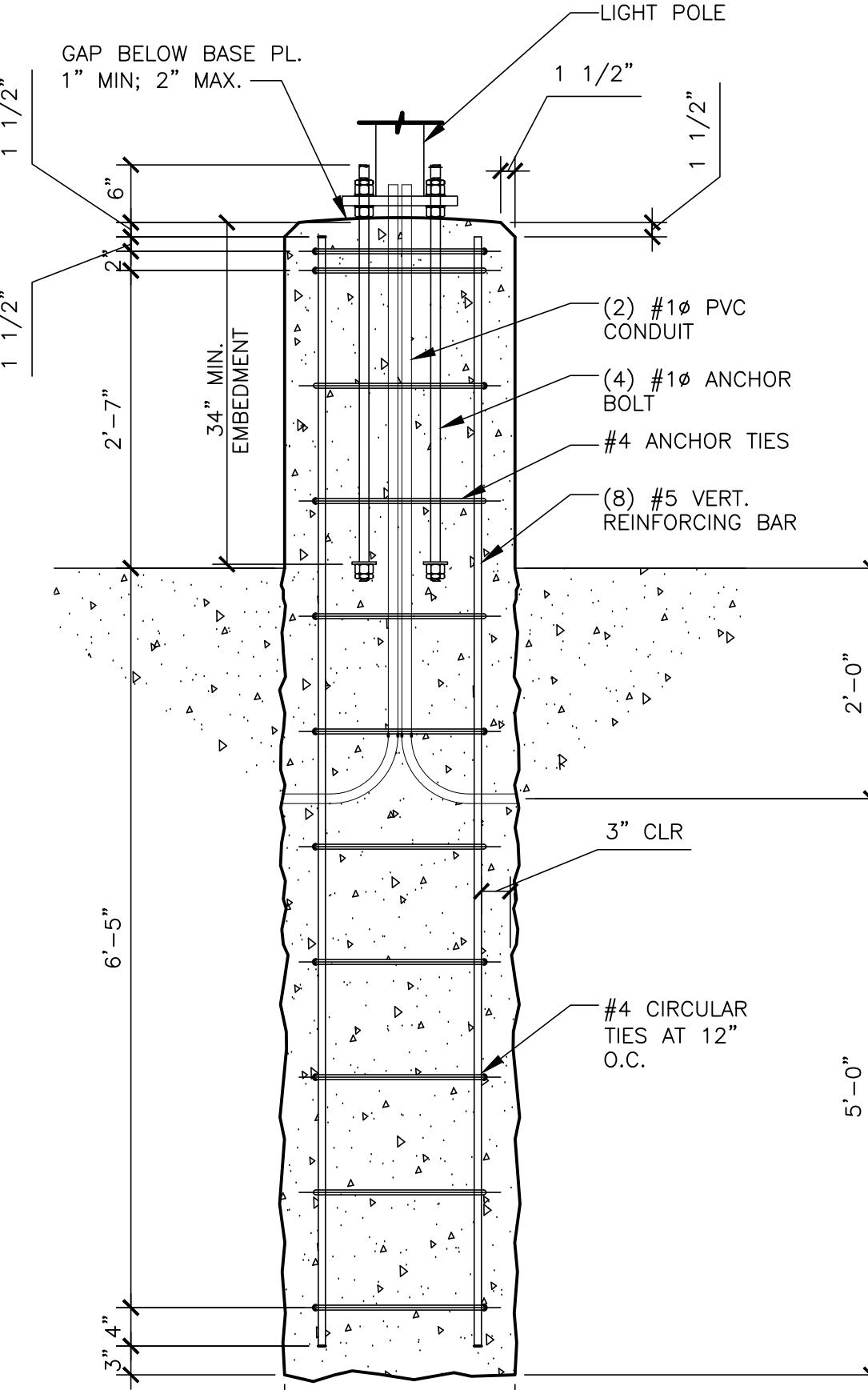
- SEE SHEET S4.0 FOR FOUNDATION, CONCRETE AND STRUCTURAL STEEL GENERAL NOTES
- DESIGN LOADS DERIVED FROM CODES AND FORCES
- AXIAL - 790#
- SH - 600#
- MOMENT - 5,335#
- ALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE
- TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
- ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS
- ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPAKTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE.
- TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
- DO NOT PLACE POLES ON CONCRETE UNTIL CONCRETE HAS CURED PER MCDONALDS CAST-IN-PLACE CONCRETE SPECIFICATION, SECTION 3.11-E. PERFORMED IN ACCORDANCE WITH AWS D1.1.
- REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
- DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF POLE
- DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS

SHEET NO.	TITLE	DRAWN BY	STD ISSUE DATE	REV.	DATE ISSUED
	2025 STANDARD BUILDING - BB20	MR	2025	AP	02/14/2025
DESCRIPTION	WOOD BEARING WALLS W/4" BRICK/STONE/WOOD				
SITE ID	NEC I-20 & UNIVERSITY HILLS Blvd, LANCASTER TEXAS				
SITE ADDRESS	STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES				
JAWA 24-0220					

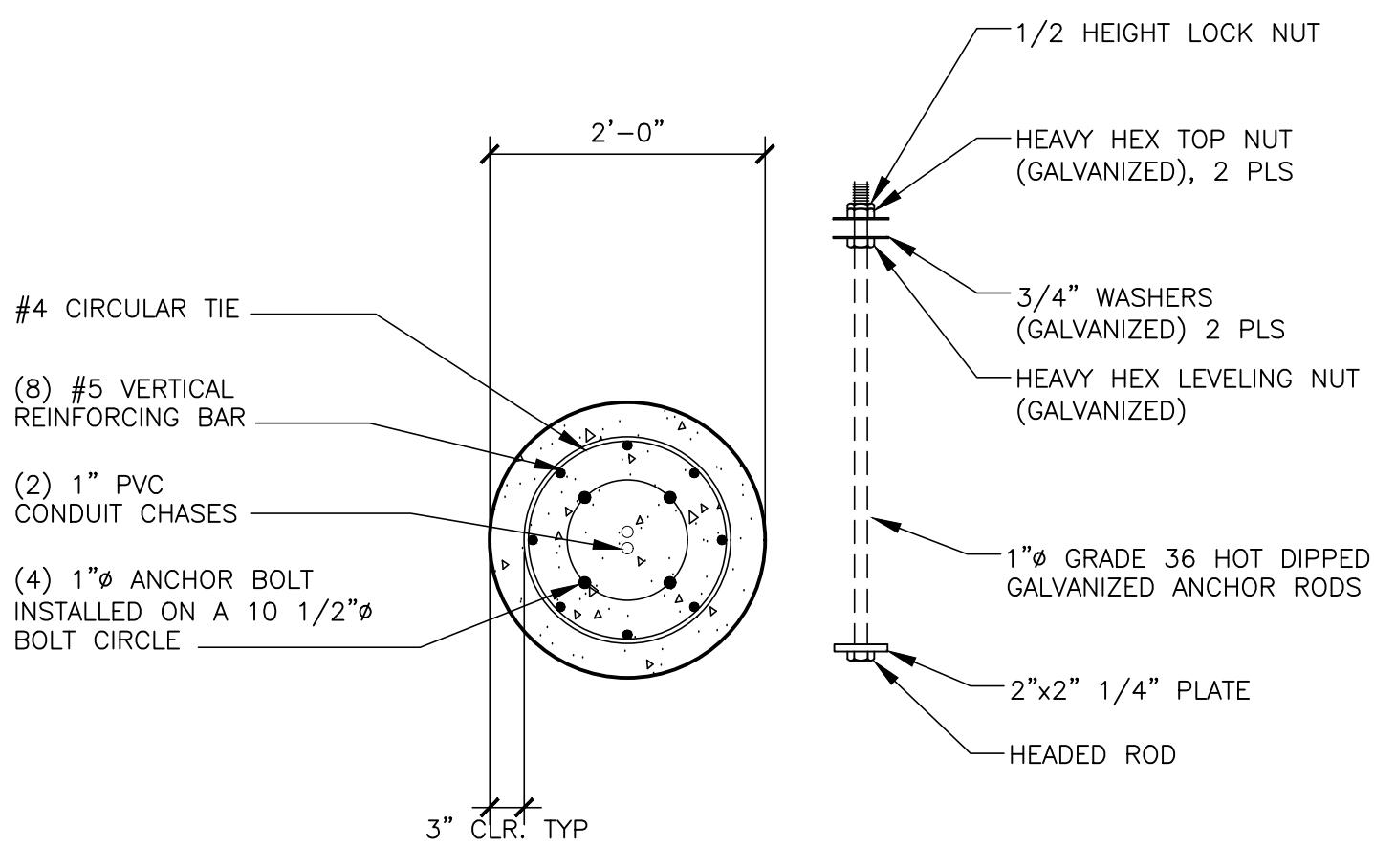
S3.4
SITE ELEMENTS DETAILS

LIGHT POLE BASE NOTES

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



PIER SECTION DETAIL

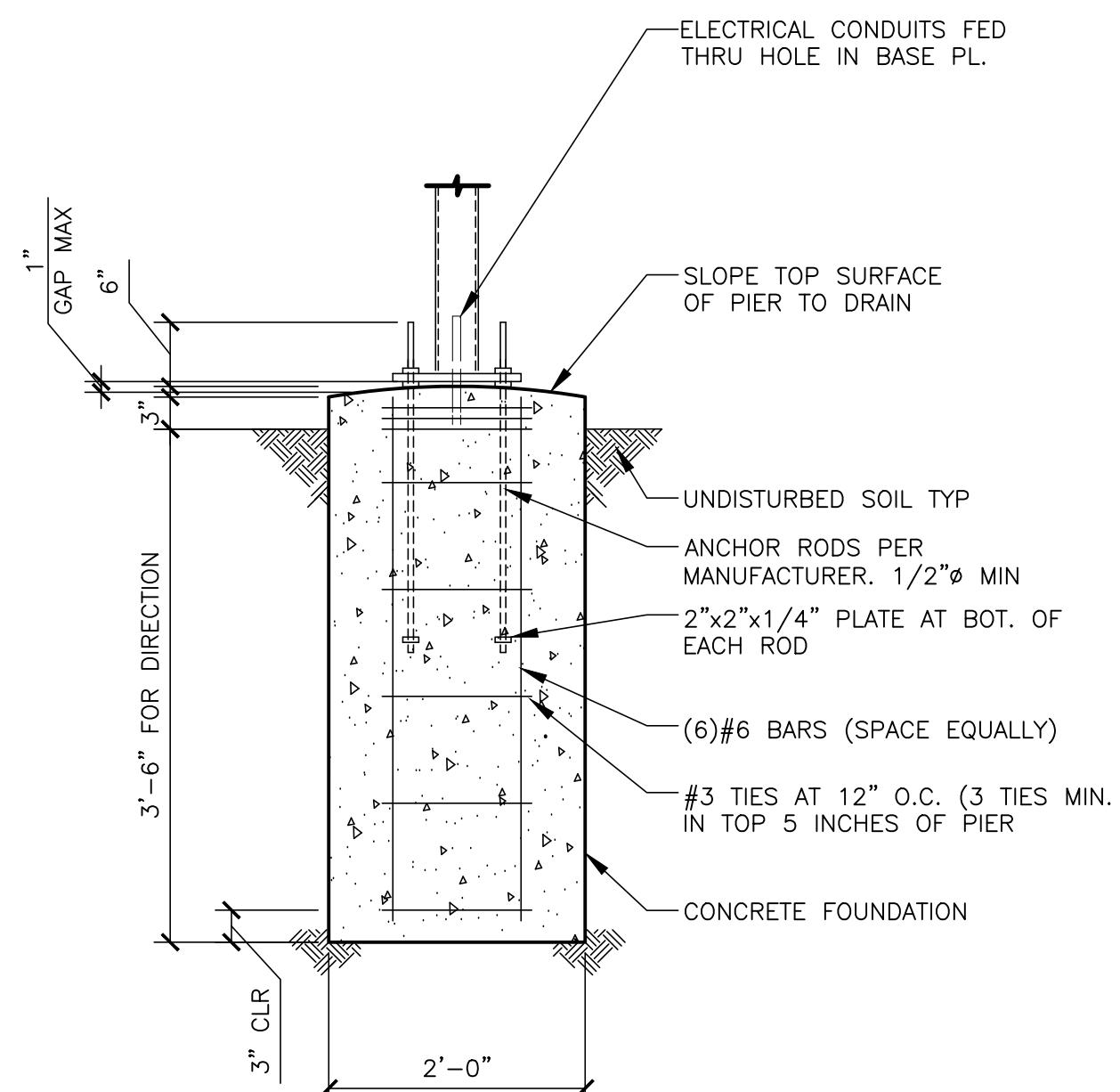


ANCHOR BOLT PATTERN

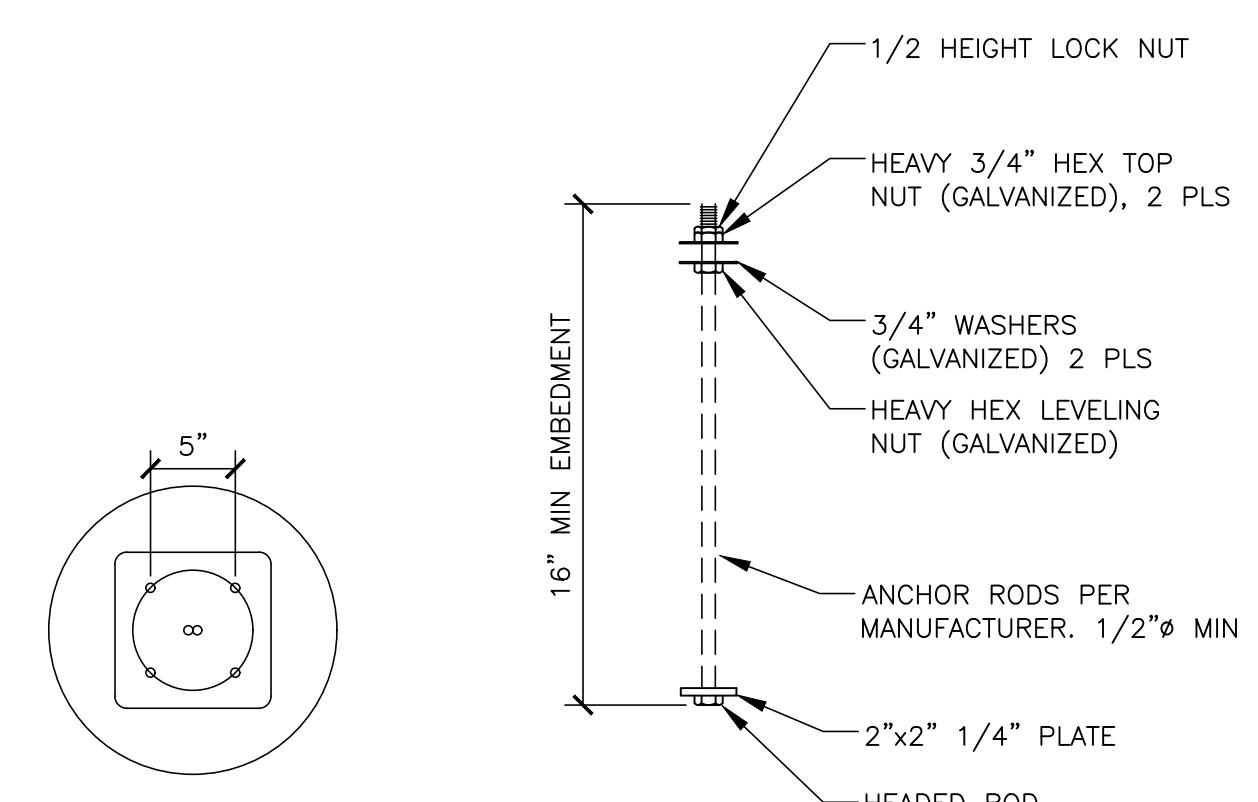
FOUNDATION FOR LIGHT POLE BASE

(1) S3.5 3/4" = 1'-0"

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



PIER SECTION DETAIL



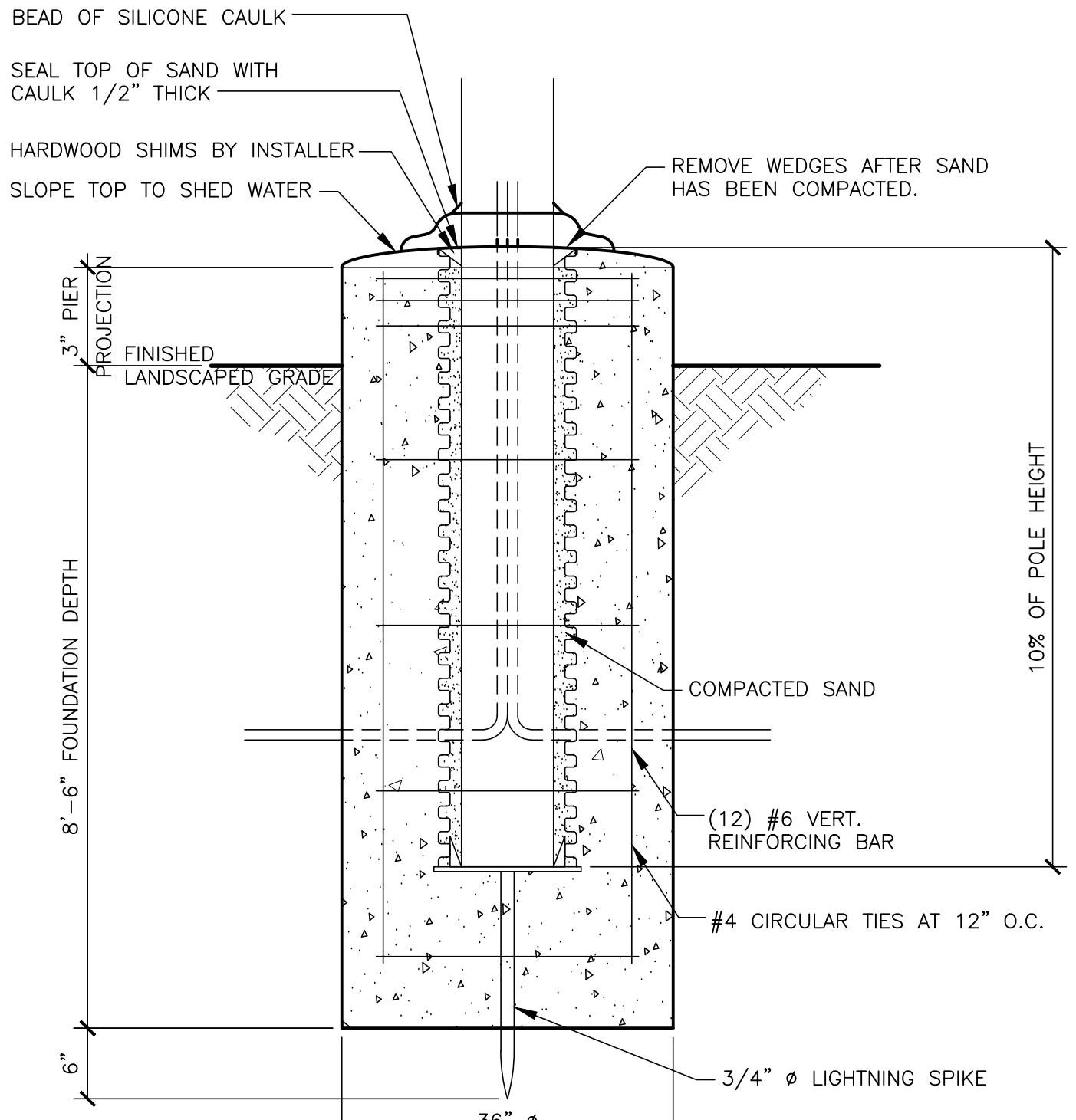
ANCHOR BOLT PATTERN

FOUNDATION FOR DIRECTION BOARD

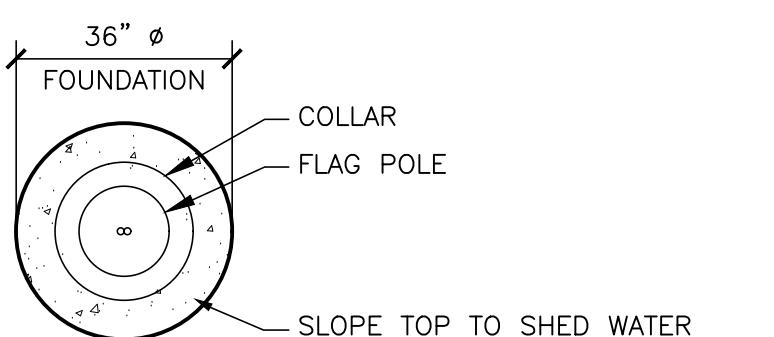
(2) S3.5 3/4" = 1'-0"

FLAG POLE BASE NOTES

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



PIER SECTION DETAIL



ANCHOR BOLT PATTERN

FOUNDATION FOR FLAG POLE BASE

(3) S3.5 3/4" = 1'-0"

rubix
consultants
Rubix Consultants, LLC
4120 N. Cicero Avenue,
Chicago, IL 60613
(312) 602-5411
TX Firm Reg No. 14032

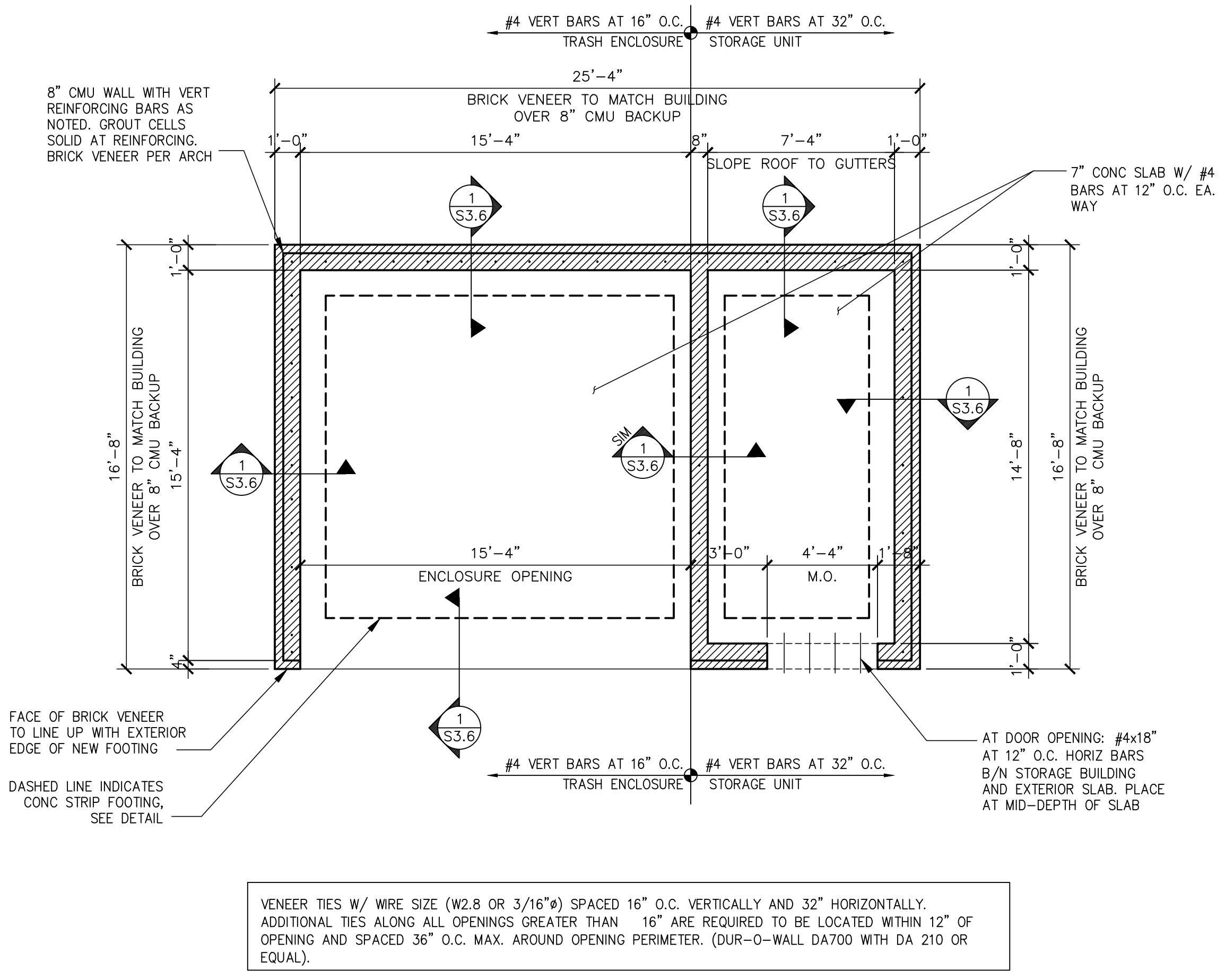
Signed/Sealed:
02/13/2025

McDonald's USA, LLC

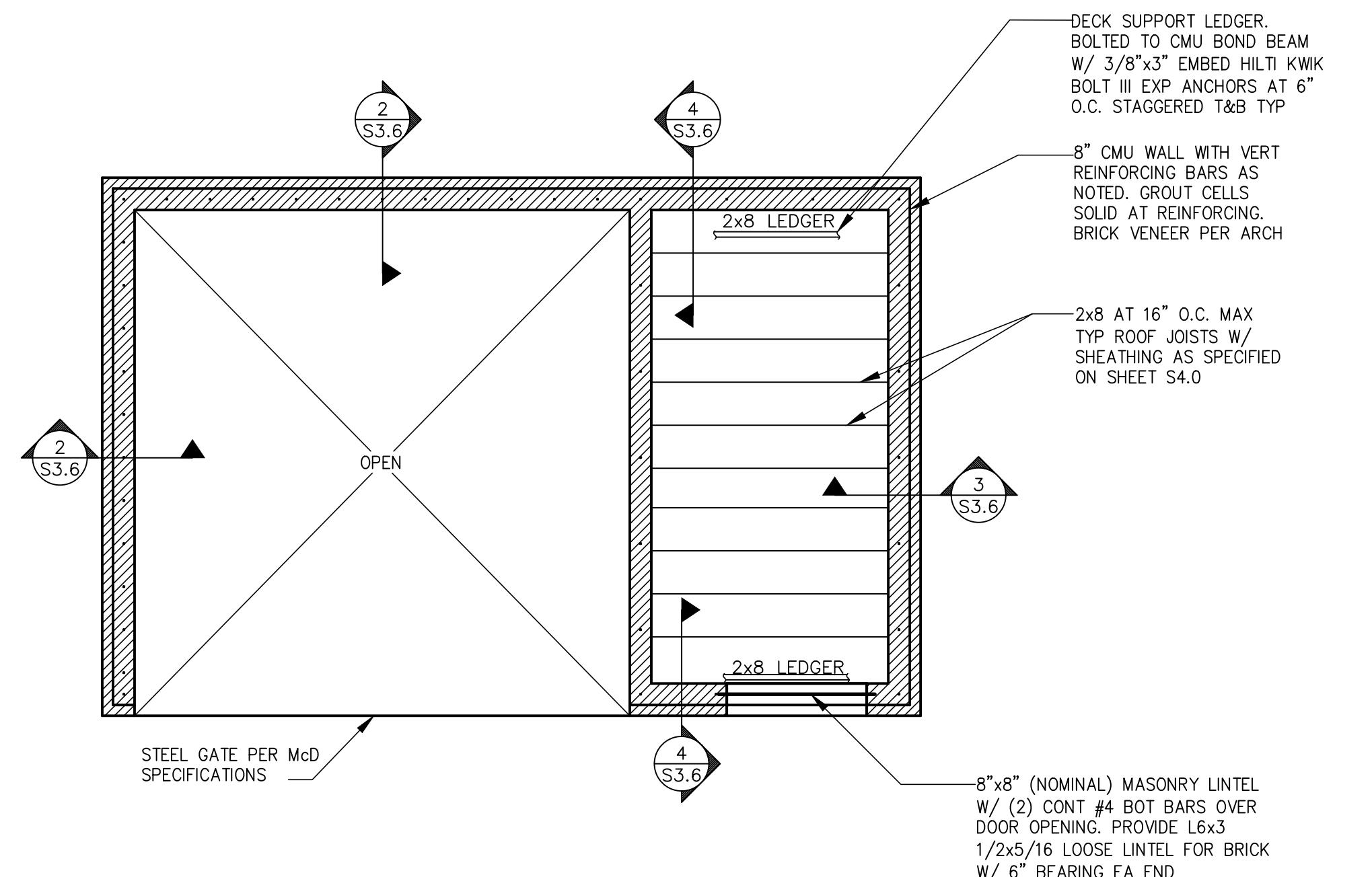
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TITLE	DRAWN BY	MR	STD ISSUE DATE
2025 STANDARD BUILDING - BB20			2025
4584-WOOD/WOOD	AP		REVIEWED BY
WOOD BEARING WALLS W/4" BRICK/STONE VENEER			DATE ISSUED
STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES			02/14/2025
SITE ID	NEC		402-3651
SITE ADDRESS			UNIVERSITY HILLS Blvd, LANCASTER TEXAS
SHEET NO.			JAWA 24-0220
			042-3651

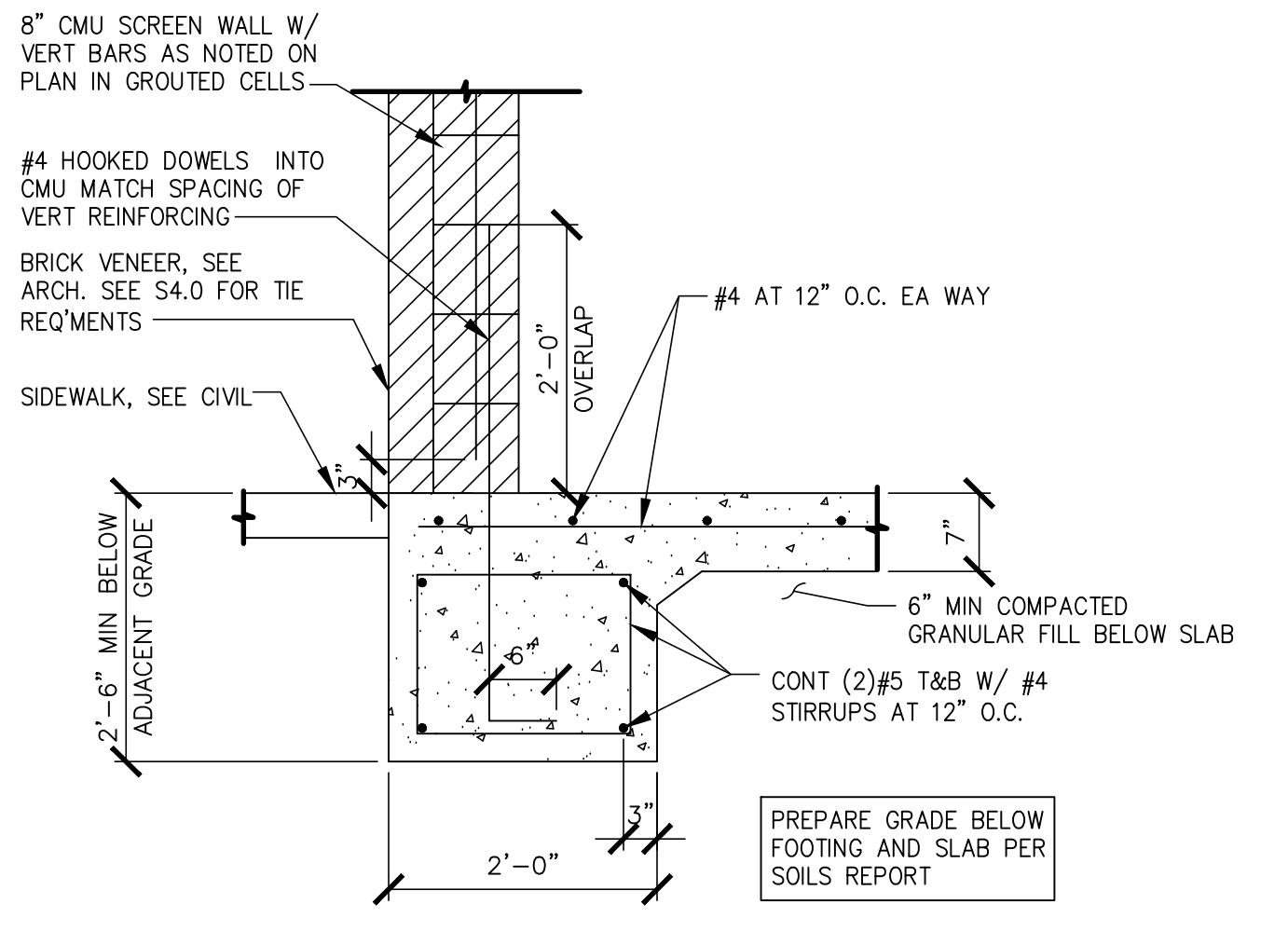
S3.5
SITE ELEMENTS DETAILS



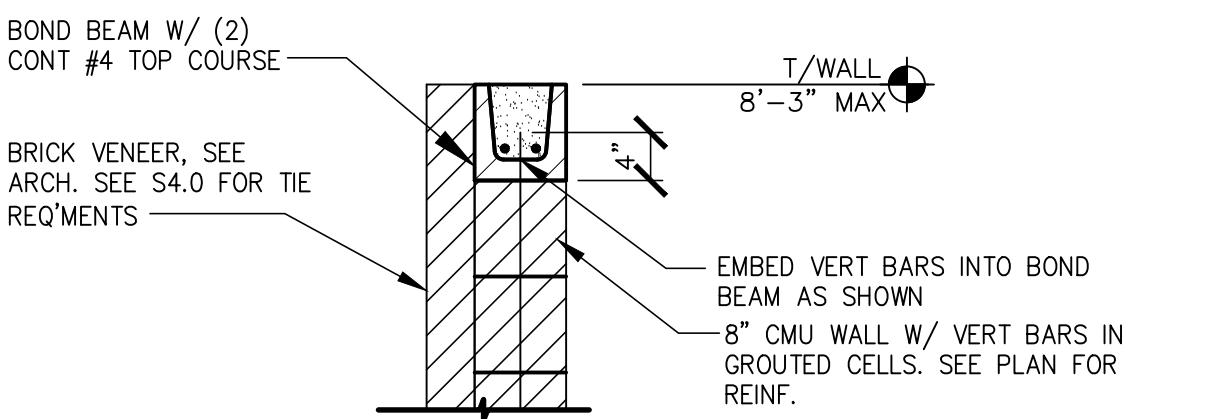
FOUNDATION PLAN @ TRASH ENCL
A
S3.6
N.T.S.



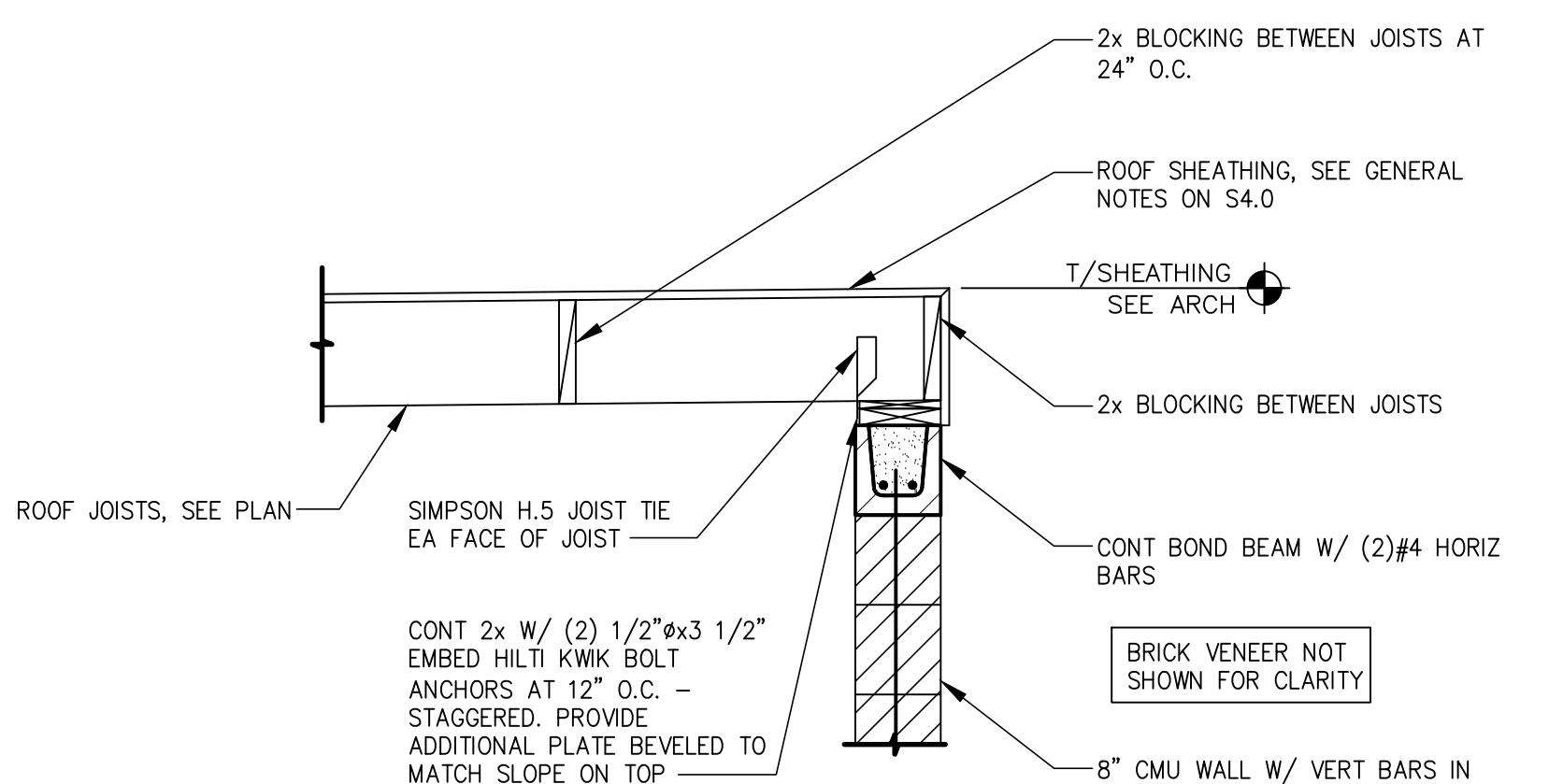
FRAMING PLAN @ TRASH ENCL
B
S3.6
N.T.S.



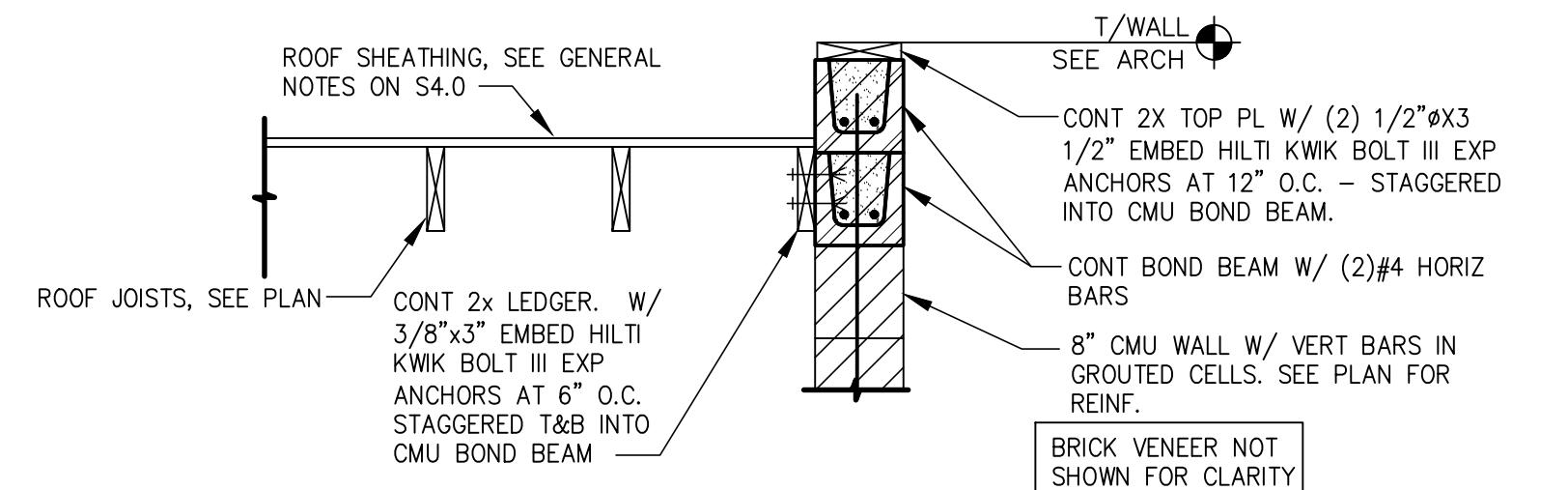
FOUNDATION DETAIL
1
S3.6
N.T.S.



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



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



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

McDonald's USA, LLC

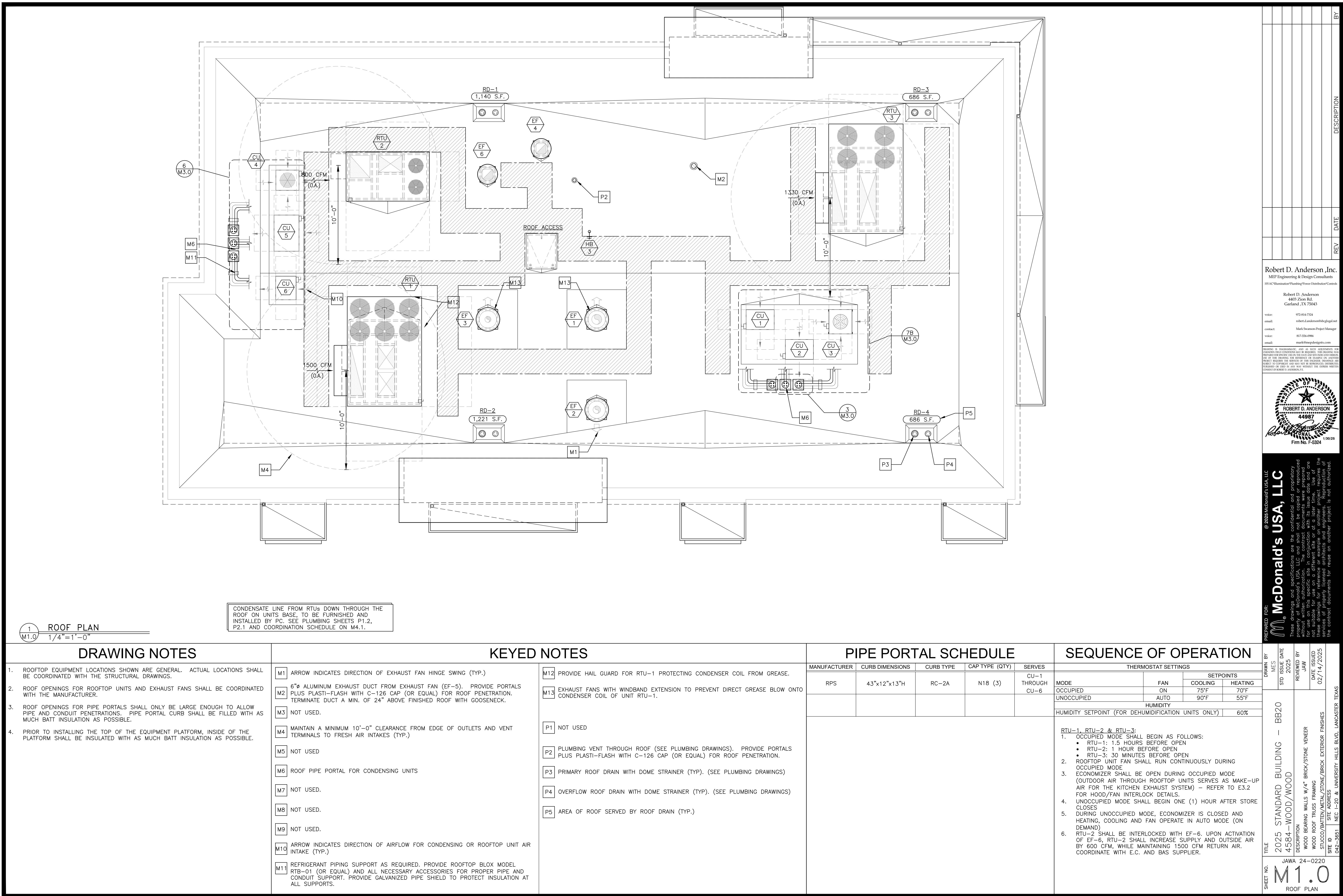
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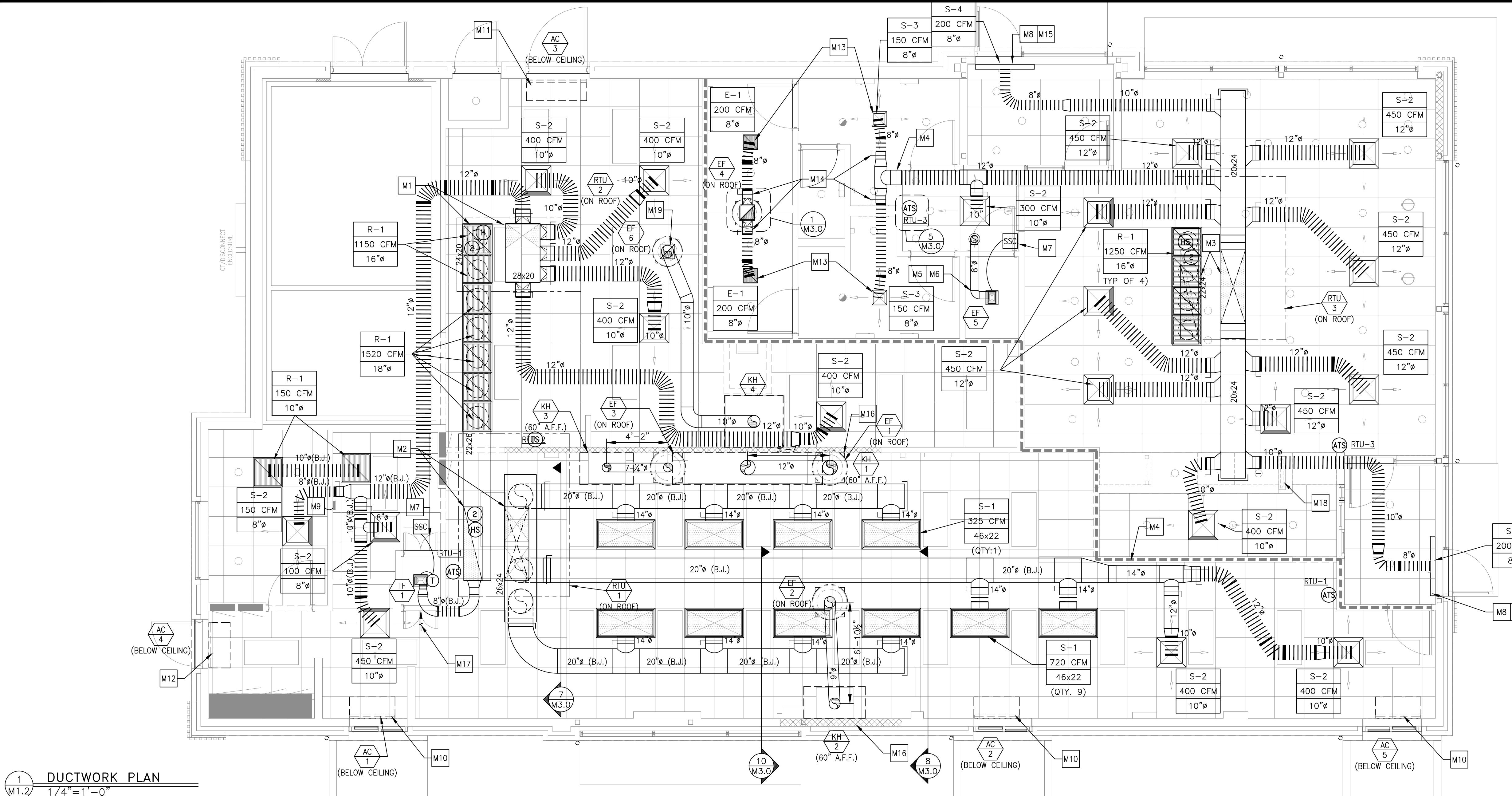
TITLE	2025 STANDARD BUILDING - BB20	DRAWN BY	MR
DESCRIPTION	4584-WOOD/WOOD	STD ISSUE DATE	2025
WOOD BEARING WALLS W/4" BRICK/STONE VENEER	REVIEWED BY	AP	
WOOD ROOF TRUSSES FRAMING	DATE ISSUED	02/14/2025	
STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES	SITE ADDRESS	JAVA 24-0220	
NEC -20 & UNIVERSITY HILLS BLD, LANCASTER TEXAS	SITE ID	4584	

S3.6
TRASH ENCL DETAILS

STRUCTURAL GENERAL NOTES:

STRUCTURAL GENERAL NOTES:						
DESIGN AND LOADING		SAWN LUMBER		MISCELLANEOUS		
1. THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA: A. BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE B. FLOOR: LIVE LOAD: 100 PSF (NON-REDUCIBLE) C. ROOF: LIVE LOAD: 20 PSF DEAD LOAD: 20 PSF D. SNOW: GROUND LOAD, P_0 : 5 PSF FLAT ROOF LOAD, P_f : 5 PSF IMPORTANCE FACTOR, s_i : 1.0 EXPOSURE FACTOR, C_e : 1.0 THERMAL FACTOR, C_t : 1.0 SLOPE FACTOR, C_s : 1.0 E. WIND: BASIC DESIGN WIND SPEED (ULTIMATE), V : 115 MPH ALLOWABLE STRESS DESIGN WIND SPEED (ULTIMATE), V_{ASD} : 90 MPH RISK CATEGORY: II WIND EXPOSURE: C $GC_W = \pm 0.18$ PRESSURES PER ASCE 7-10 F. SEISMIC: RISK CATEGORY: II IMPORTANCE FACTOR: 1.00 SITE CLASS: B $SS = 0.091$, $S_1 = 0.05$ $SDS = 0.06$, $SD_1 = 0.034$ DESIGN CATEGORY: A PLYWOOD SHEAR WALLS ($R = 6.5$) STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE ($R = 3.0$) DESIGN BASE SHEAR = SEE CALCULATIONS ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE G. FLOOD LOAD: N/A H. SPECIAL LOADS: N/A I. RAIN LOADS: N/A	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.	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.				
FOUNDATION NOTES						
1. THE FOUNDATION DESIGN OF THIS BUILDING WAS BASED ON THE FOLLOWING CRITERIA: A. MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 40,000 PSF AT THE BASE OF STRAIGHT-DRILLED SHAFTS BEARING ON GRAY LIMESTONE. ALLOWABLE SKIN FRICITION IN TENSION = 4,800 PSF. B. RECOMMENDED BY TERRACON CONSULTANTS, INC. IN THEIR REPORT NO. 94245625 AND DATED DECEMBER 19, 2024. C. ALL GRADE BEAM SHALL HAVE A MINIMUM CARDBOARD VOID FORM BELOW AS NOTED ON GEOTECHNICAL REPORT.						
2. 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.						
3. ALL FOUNDATION EXCAVATIONS AND PIER PENETRATIONS SHALL BE INSPECTED AND APPROVED 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 A1564, 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.						
MISCELLANEOUS						
1. ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY. 2. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE. 3. DO NOT SCALE THE DRAWINGS.						
CONCRETE BLOCK JOINT REINFORCEMENT (AT DUMPSTER ENCLOSURE):						
ALL CONCRETE BLOCK WALLS TO RECEIVE THE FOLLOWING JOINT REINFORCEMENT: LADDER TYPE JOINT REINFORCING WITH SIDE AND CROSS RODS WITH WIRE SIZE (W2.8 OR 3/16") SPACED 16" O.C. VERTICALLY. (HOHMANN & BARNARD 220 "SUPER HEAVY DUTY" OR EQUAL) SIMILAR FOR CONCRETE BRICK PRODUCTS.						
CONCRETE BLOCK JOINT REINFORCEMENT	1 S4.0					
VENEER TIE REQUIREMENTS:						
1. FOR SEISMIC DESIGN CATEGORIES 'A' THROUGH 'C' WITH ULTIMATE WIND SPEED LESS THAN 140 MPH, USE THE FOLLOWING: VENEER 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).						
VENEER TIE REQUIREMENTS	2 S4.0					
ALL UTILITY CONNECTIONS IS TO BE COORDINATED WITH CIVIL ENGINEER ON RECORD AND ACM, GC TO VERIFY ANY DISCREPANCIES WITH ARCHITECT, ENGINEERS OF RECORD, AND ACM.						
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 A1564, 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.						
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 2015 INTERNATIONAL BUILDING CODE SECTIONS/LOCATIONS: A. SOILS – SECTION 1705.6 PER TABLE 1705.6 B. CONCRETE – SECTION 1705.3 PER TABLE 1705.3 C. STEEL – SECTION 1705.2 (SEE AISC 360-16) D. WOOD – SECTION 1705.5						
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.						
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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.						
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.						
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.						
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:			</td			





DUCTWORK PLAN

DRAWING NOTES

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

KEYED NOTES

- M1 28x20 SUPPLY AND 24x27 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-2)
 - M2 20x60 SUPPLY AND 15x60 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-1)
 - M3 20x60 SUPPLY AND 15x60 RETURN DUCT DROPS FROM ROOFTOP UNIT (RTU-3)
 - M4 PROVIDE SHEET METAL DUCT AT ALL DRAFTSTOP WALL PENETRATIONS (TYP.)
 - M5 8"Ø ALUMINUM DUCT FROM EXHAUST FAN UP THROUGH ROOF
 - M6 EXTERNALLY INSULATE EXHAUST DUCT FROM FAN TO ROOF PENETRATION
 - M7 STEADY STATE SPEED CONTROLLER FOR CEILING MOUNTED EXHAUST FAN. STEADY STATE SPEED CONTROLLER SHALL BE INSTALLED OVER SUSPENDED CEILING FOR ACCESS. DO NOT INSTALL OVER AREAS WITH DRYWALL CEILINGS.
 - M8 SET DIFFUSER'S (S-5) OUTER SLOT FOR VERTICAL AIR THROW PATTERN AND INNER SLOT FOR HORIZONTAL THROW PATTERN (TYP.)
 - M9 BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.
 - M10 MOUNT AIR CURTAIN TIGHT TO CEILING
 - M11 MOUNT AIR CURTAIN WITH BOTTOM OF UNIT AT TOP OF DOOR FRAME
 - M12 MOUNT AIR CURTAIN WITH BOTTOM OF UNIT ABOVE DOOR FRAME AND TOP OF SWITCHGEAR TO MEET 3'-0" MINIMUM SWITCHGEAR'S CLEARANCE REQUIREMENT
 - M13 FOR DIFFUSERS INSTALLED IN DRYWALL CEILINGS, VOLUME DAMPER IS INTEGRAL TO DIFFUSER AND ADJUSTABLE AT FACE OF DIFFUSER (SEE NOTE 18 UNDER "VENTILATION SYSTEMS" ON DRAWING M4.0 AND AIR DEVICE SCHEDULE ON DRAWING M4.1)
 - M14 FOR DIFFUSERS INSTALLED IN DRYWALL CEILINGS, INSTALL HIGH-EFFICIENCY TAKE-OFFS WITH VOLUME DAMPER IN FULL-OPEN POSITION TO FACILITATE BALANCING AT FACE OF DIFFUSER.
 - M15 GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL T-BAR FRAME TO PROPERLY LOCATE DIFFUSER AS SHOWN. AIR STREAM FROM DIFFUSER SHALL COVER ENTIRE DOOR OPENING.
 - M16 NONCOMBUSTIBLE WALL CONSTRUCTION BEHIND TYPE I KITCHEN HOODS. REFER TO SHEET A1.0 FOR MORE INFORMATION.
 - M17 ONE INCH DOOR UNDERCUT TRANSFER AIR TO CLOSET (100 CFM)
 - M18 MECHANICAL CONTRACTOR TO PROVIDE 4x12 LOUVERED RETURN AIR BEHIND EACH RECESSED MENU BOARD. SEE ARCHITECTURAL PLANS, DETAIL 14/A3.1. AND AIR DEVICE SCHEDULE (R-2) ON SHEET M4.1.

2015 IMC SECTION 403.3 - VENTILATION SCHEDULE												
UNIT	AREA SERVED	AREA FT ² (Az)	CFM / PERSO N (Rp)	CFM/FT ² (Ra)	PEOPLE / 1000 FT ² (Pz)	BREATHING ZONE REQUIRED O/A CFM (Vbz)	Ez*	Ev**	REQUIRE D O/A CFM (Vot)***	ACTUAL O/A CFM	REQUIRE D EXHAUST CFM	ACTUAL EXHAUST CFM
RTU-1	PRESENTER	20	7.5	0.12	20	5	0.8	1.00	-	-	-	-
	KITCHEN	1000	7.5	0.12	20	270	0.8		-	-	-	-
				275				231		1500		
RTU-2	SUPPORT	565	5	0.06	2	40	0.8	1.00	-	-	-	-
	MANAGER'S OFFICE	65	5	0.06	5	6	0.8		-	-	-	-
	CREW ROOM	100	5	0.06	5	9	0.8		-	-	-	-
	ORDER	95	7.5	0.12	20	26	0.8		-	-	-	-
				79				131		800		
RTU-3	DINING	715	7.5	0.18	70	504	0.8	0.95	-	-	-	-
	CUSTOMER SERVICE	115	7.5	0.18	70	81	0.8		-	-	-	-
	VESTIBULE 1	60	-	0.06	-	4	0.8		-	-	-	-
	VESTIBULE 2	60	-	0.06	-	4	0.8		-	-	-	-
	WOMEN'S	135	-	-	-	-	-		-	-	-	-
	MEN'S	120	-	-	-	-	-		-	-	-	-
				592				566		1330		
EF-1, 2 & 3	KITCHEN	1000	-	0.7	-	-	-	-	-	-	700	2405
EF-4	WOMEN'S	135	-	-	-	-	-	-	-	-	100	200
	MEN'S	120	-	-	-	-	-		-	-	100	200
EF-5	JANITOR'S CLOSET	25	-	-	-	-	-	-		-	-	75
EF-6	WAREWASHER	-	-	-	-	-	-	-	-	-	350	600
				929				3630		900		

* ZONE AIR DISTRIBUTION EFFECTIVENESS BASED ON IMC TABLE 403.3.1.1.1.2 FOR CEILING SUPPLY OF WARM AIR 15° F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN.

** VENTILATION SYSTEM EFFICIENCY BASED ON IMC TABLE 403.3.1.1.2.3.2.

*** CORRECTED REQUIRED O/A INTAKE REQUIRED FOR SYSTEM CALCULATED BASED ON IMC SECTION 403.3.1.1.2.3.3.

AIR BALANCE SCHEDULE					
UNIT	SUPPLY AIR	RETURN AIR	OUTDOOR AIR	EXHAUST AIR	PRESSURE
RTU-1	7600	6100	1500		1500
RTU-2	2300	1500	800		800
RTU-3	5000	3670	1330		1330
EF-1				1350	-1350
EF-2				575	-575
EF-3				480	-480
EF-4				400	-400
EF-5				75	-75
EF-6				600	-600
TOTALS	14900	11270	3630	3480	150

NOTES:

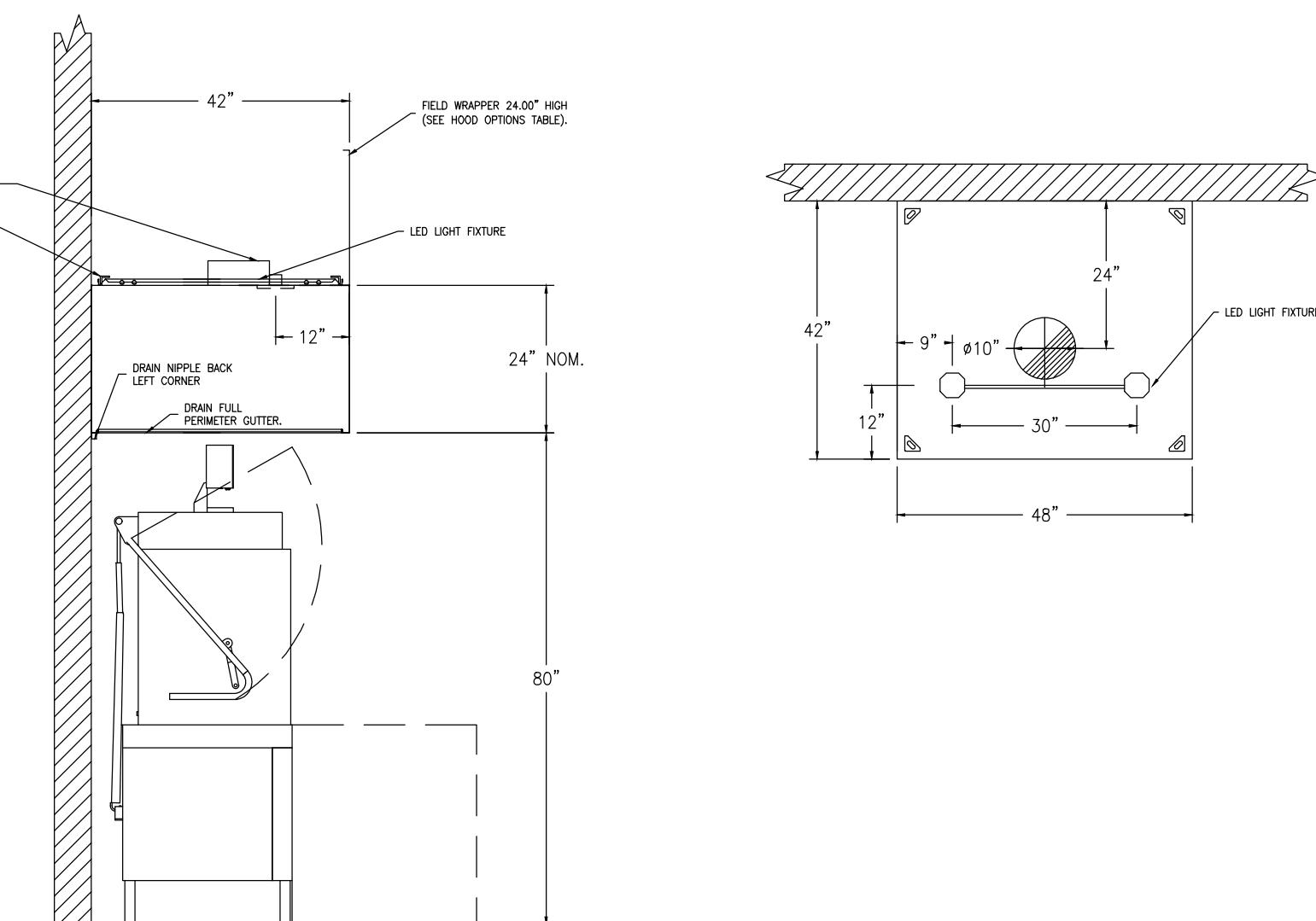
- NOTES:**

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

2025 STANDARD BUILDING – BB20		MES
		STD ISSUE DATE 2025
DESCRIPTION	WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD ROOF TRUSS FRAMING STUCCO/BATTEN/STONE/BRICK EXTERIOR FINISHES	REVIEWED BY JAW
SITE ID	SITE ADDRESS NEC I-20 & UNIVERSITY HILLS BLVD, LANCASTER TEXAS	DATE ISSUED 02/14/2025
JAWA 24-0220		
 M McDonald®	1	2
DUCTWORK PLAN		

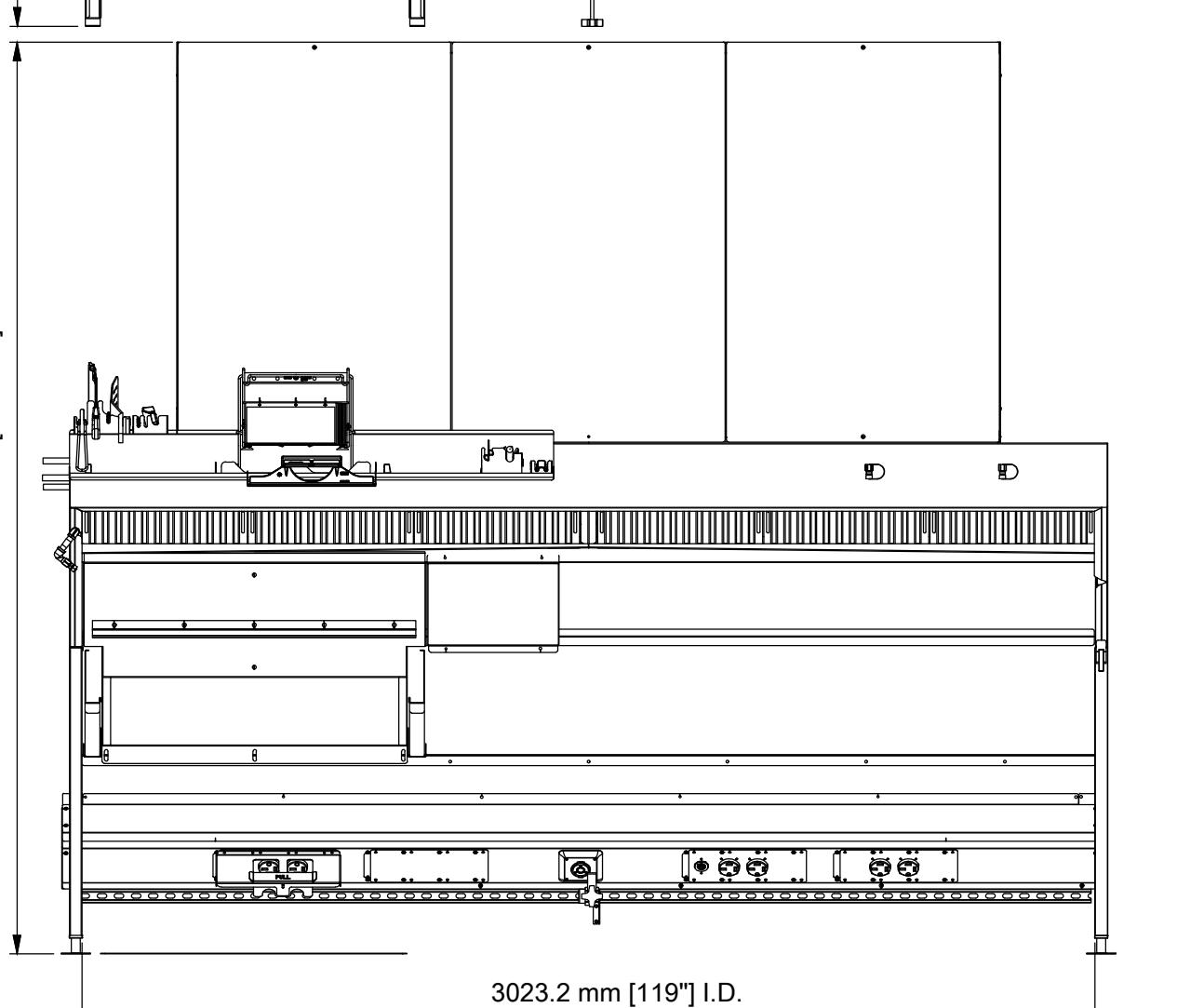
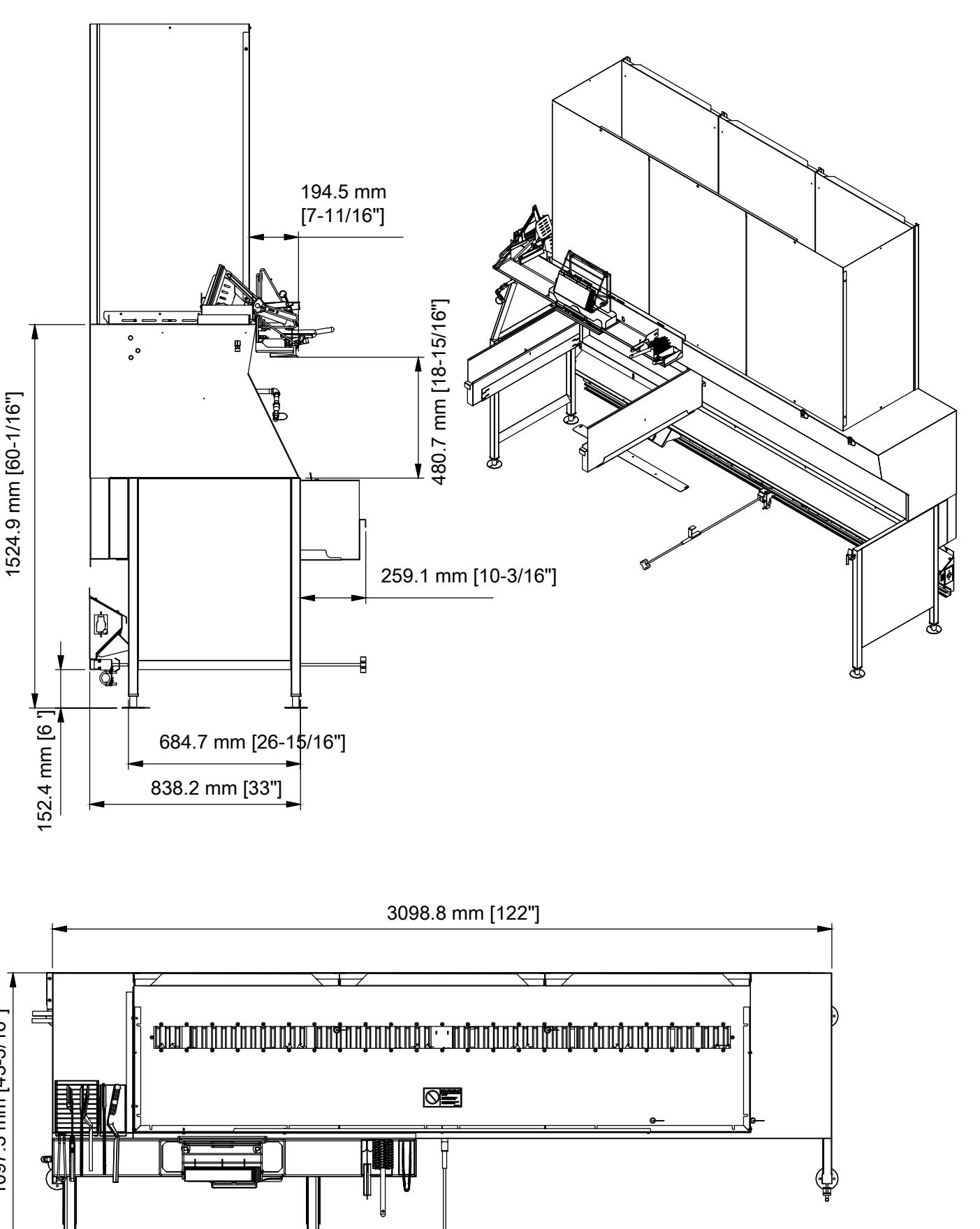
HOOD INFORMATION								EXHAUST PLENUM RISER(S)							HOOD CONSTRUCTION		HOOD CONFIG.	
HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	APPLIANCE DUTY	DESIGN CFM/ft	TOTAL EXH. CFM							HOOD CONSTRUCTION	END TO END	ROW		
								WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.				
1	DISH	CLASS 2	48"	NA	DISH	150	600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

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



KITCHEN EXHAUST HOOD (TYPE II)

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



KITCHEN EXHAUST HOOD (TYPE I)

KITCHEN EXHAUST HOOD (IF E)

TAG: KH-1 (SEE KITCHEN EXHAUST HOOD SCHEDULE)

DRAWING NOTES

- 16 GA. STAINLESS STEEL MATERIAL USED FOR HOOD CONSTRUCTION

FILTER BAFFLE:
UL FILE R14372, VOL. 1, SEC. 1
UL CONTROL NUMBER 5L65
MEA-446-92-M

EXHAUST HOOD:
UL FILE MH12755, VOL. 4
UL CONTROL NUMBER 78L1

UTILITY CHASE AND RACEWAY:
UL FILE E163328, VOL.1, SEC.3

HIGH TEMP GASKET:
UL FILE MH12755, VOL. 2, SEC. 1, ILL. 9

HOOD CONSTRUCTION COMPLIES WITH NSF STANDARD 2

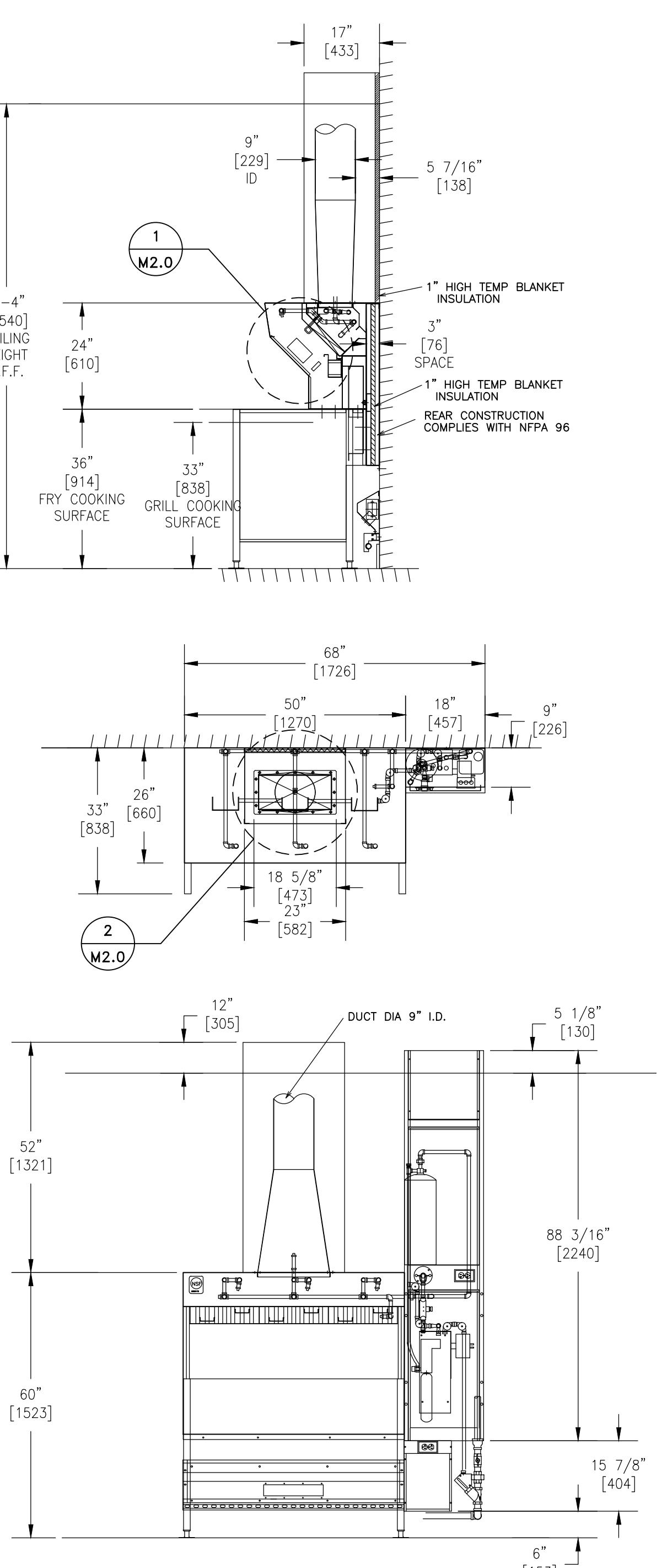
HOOD PERFORMANCE TESTED IN ACCORDANCE WITH UL 710

UL 300 AND NFPA 17A COMPLIANT R-102 WET CHEMICAL SYSTEM INCLUDED WITH HOOD INSTALLATION

ANSUL CONNECTIONS AND STARTUP BY APPROVED ANSUL REPRESENTATIVE

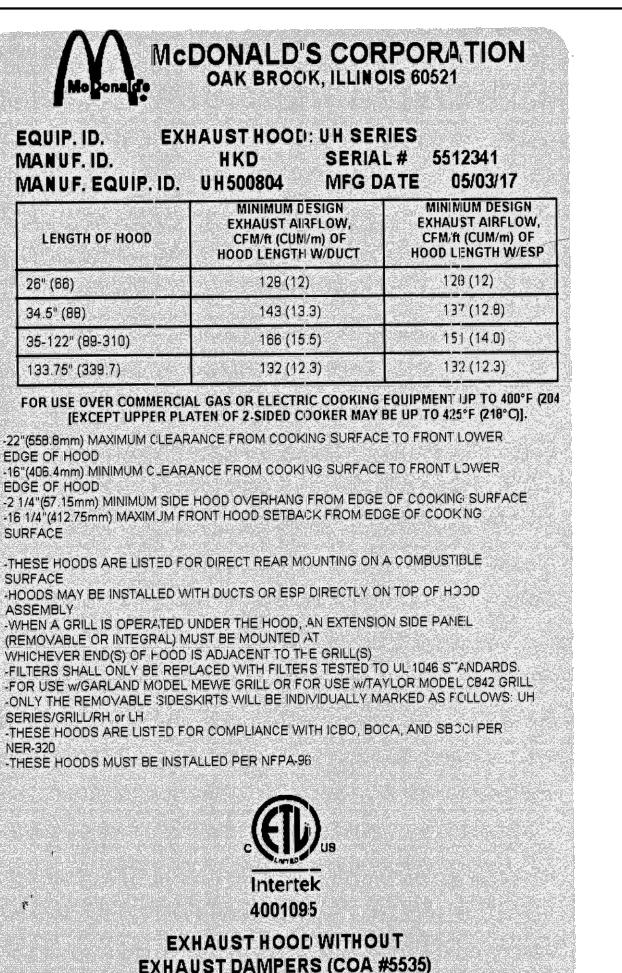
D. REFER E3.2 FOR HOOD/FAN INTERLOCK DETAILS

I. CAPTURE JET PLENUMS ARE TO BE ATTACHED WHEN CALLED OUT PER KITCHEN SCHEDULE.



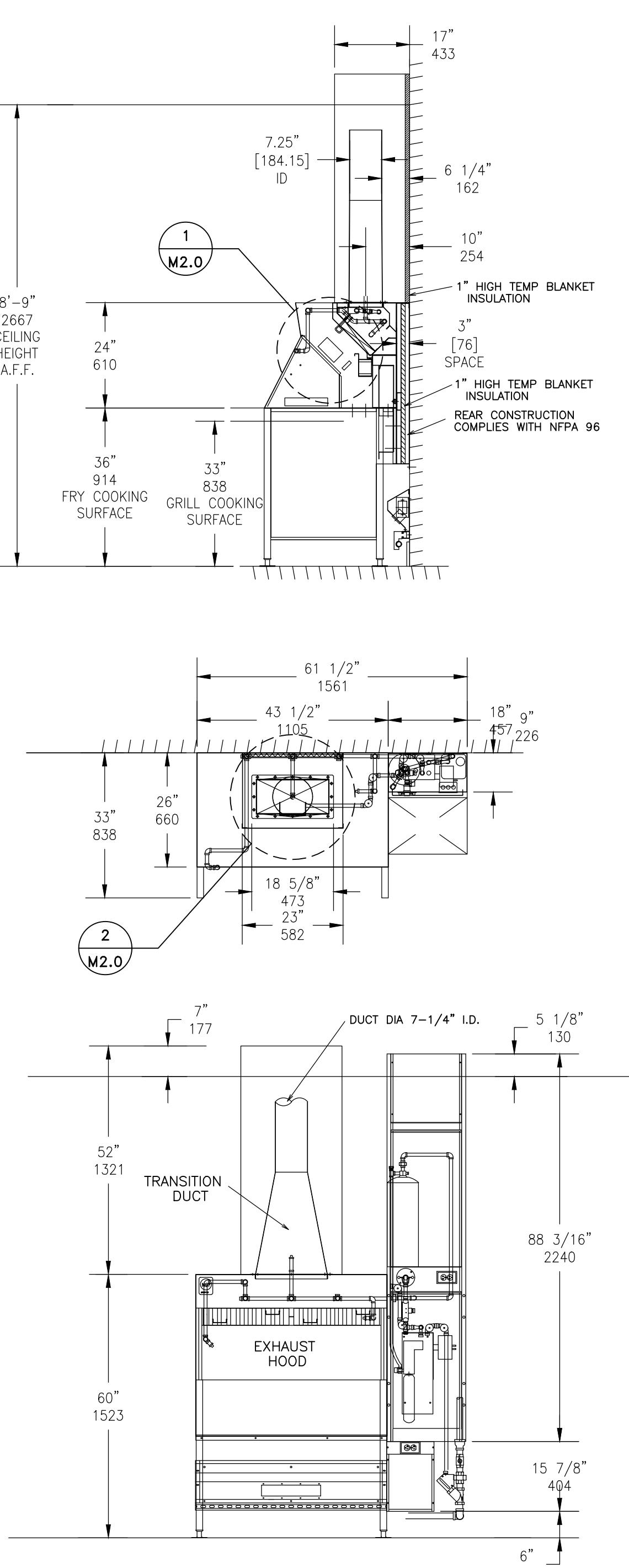
KITCHEN EXHAUST HOOD (TYPE I)

KITCHEN EXHAUST HOOD (TYPE)
TAG: KH-2 (SEE KITCHEN EXHAUST HOOD SCHEDULE)



DETAIL

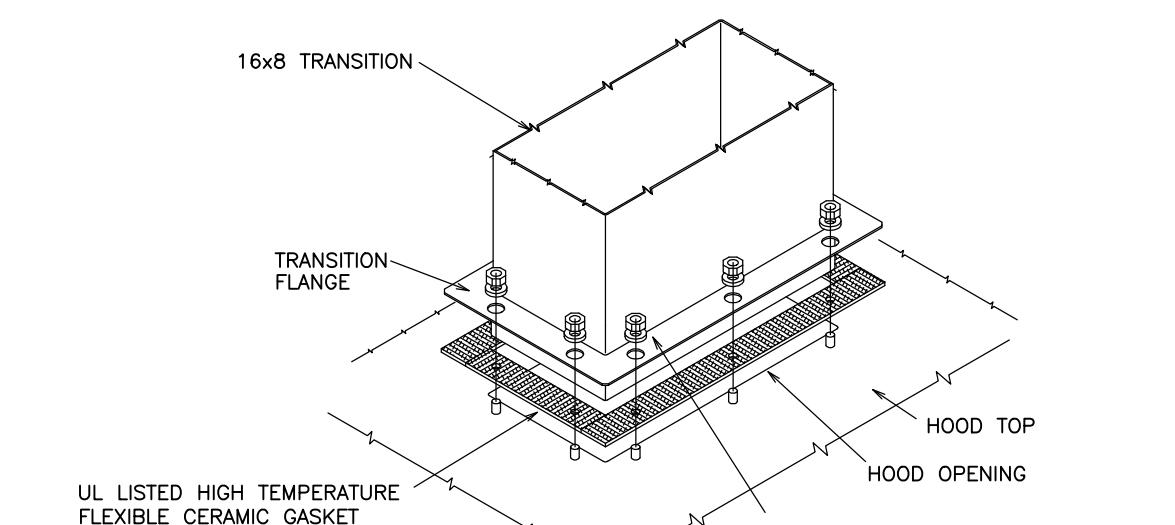
UL LABEL SCALE: NONE



KITCHEN EXHAUST HOOD (TYPE I)

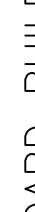
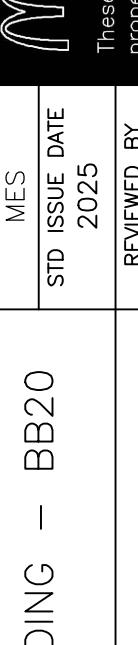
KITCHEN EXHAUST HOOD (1)

TAG: KH-3 (SEE KITCHEN EXHAUST HOOD SCHEDULE)



DETAIL

OOD CONNECTION

SHEET NO.	TITLE	PREPARED FOR:	PREPARED BY	DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED	REV	DATE	DESCRIPTION	BY
M2.0	2025 STANDARD BUILDING – BB20 4584 – WOOD/WOOD	 McDonald's USA, LLC		MES	2025	JAW	02/14/2025			Robert D. Anderson, Inc. MEP Engineering & Design Consultants HVAC*Illumination*Plumbing*Power Distribution*Controls	BY
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 <p>ROBERT D. ANDERSON 44987 Firm No. F-5324 1/30/25</p>											
<p style="text-align: right;">@ 2025 McDonald's USA, LLC</p> <h1>McDonald's USA, LLC</h1> <p>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 for use on this specific site 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 properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.</p>											
<p>JAWA 24-0220 EXHAUST HOODS</p>											
<p>SITE ID: 042-3651 SITE ADDRESS: NEC I-20 & UNIVERSITY HILLS BLVD, LANCASTER TEXAS</p>											

<p>KEYED NOTES:</p> <ol style="list-style-type: none"> 1. SHEET METAL DUCT DROP (SUPPLY, RETURN OR EXHAUST) 2. FOAM GASKET BETWEEN DUCT AND CURB 3. ROOF CURB 4. ROOF LINE 5. 6" FACE-TO-FACE CANVAS FLEXIBLE CONNECTION 6. 2" EXTERIOR INSULATION (SUPPLY AND RETURN) <p>DUCT DROP INSTALLATION SCALE: NONE</p>	<p>KEYED NOTES:</p> <ol style="list-style-type: none"> STRUCTURE ALL THREAD ROD ROUND FLEXIBLE DUCT TO TAKE-OFF R/D=1.0 (MIN) 1" WIDE, 18 GA. SUPPORT STRAP W/ 5'-0" MAXIMUM SPACING DRAW-BAND CLAMP - TYPICAL EACH END MATERIAL LENGTH TO BE 5 FEET FLEXIBLE DUCT SUPPORT (TITUS FLEXRIGHT OR EQUIVALENT) MAX OFFSET ALLOWABLE: 2-INCHES PER FOOT OF FLEXIBLE DUCT LENGTH <p>CEILING AIR DEVICE - TYPICAL CEILING DIFFUSER/GRIFFE CONNECTION SCALE: NONE</p>	<p>KEYED NOTES:</p> <ol style="list-style-type: none"> REFRIGERANT LIQUID LINE REFRIGERANT SUCTION LINE WITH 1" THICK EXTERNAL FOAM INSULATION (ARMAFLEX BY ARMACELL OR EQUAL) STAINLESS STEEL CLAMP APPLY WEATHERPROOFING OVER FOAM INSULATION (ALUMAGUARD BY POLYGUARD OR EQUAL) WRAP FOAM INSULATION OVER PIPE PORTAL NIPPLE AND STAINLESS STEEL CLAMP RESTART FOAM INSULATION IMMEDIATELY AFTER PIPE PORTAL INSULATION INSULATE BOTTOM OF ROOF PORTAL CURB (MIN. R-19) PIPE HANGER LIGHT GAUGE GALVANIZED STEEL PROTECTIVE SHIELD <p>REFRIGERANT PIPE INSTALLATION SCALE: NONE</p>	<p>KEYED NOTES:</p> <ol style="list-style-type: none"> PROVIDE BATT INSULATION FOR TEMPERATURE SENSORS INSTALLED IN HOLLOW CAVITY WALLS 2x4 ELECTRICAL BOX SENSOR (TEMPERATURE, HUMIDITY OR CO₂) MOUNT SENSOR(S) BETWEEN 4'-0" TO 4'-6" A.F.F. <p>REMOTE SENSOR INSTALLATION SCALE: NONE</p>
<p>KEYED NOTES:</p> <ol style="list-style-type: none"> 180" x 43" x 14" H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL 28" x 24" x 19 1/2" H CONDENSING UNIT (COOLER) 43 1/2" x 30" x 29 1/2" H CONDENSING UNIT (FREEZER) 29" x 24 1/2" x 34" H CONDENSING UNIT (MULTIPLEX) FASTEN CONDENSING UNIT TO TOP OF PLATEFORM AND SEAL FASTENER PENETRATIONS WITH UV RESISTANT SEALANT OUTLINE OF SERVICE CLEARANCE EXTENDING 3'-0" FROM CONDENSING UNIT ON ALL SIDES CONDENSER AIR INTAKE CONDENSER FAN OUTLET ON TOP OF UNIT CONDENSER FAN OUTLET ON SIDE OF UNIT DISCONNECT SWITCH FURNISHED WITH UNIT PROVIDE PIPE SUPPORT AS REQUIRED (TREATED LUMBER IS NOT ACCEPTABLE) MULTIPLE PIPE PORTAL MANUFACTURED BY RPS OR EQUAL CONDUIT SIZES: (PER CONDENSING UNIT) <ul style="list-style-type: none"> (1) 3/4" POWER (1) 3/4" CONTROL REFRIGERANT PIPING SIZES: SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR RECOMMENDED REFRIGERANT PIPE SIZING <p>REMOTE CONDENSER UNITS (CU-4, CU-5 & CU-6) SCALE: 1/2"-1'-0"</p>	<p>KEYED NOTES:</p> <ol style="list-style-type: none"> 141" x 72" x 14" H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL 34" x 24 1/2" x 25 1/2" H CONDENSING UNIT FASTEN CONDENSING UNIT TO TOP OF PLATEFORM AND SEAL FASTENER PENETRATIONS WITH UV RESISTANT SEALANT OUTLINE OF SERVICE CLEARANCE EXTENDING FROM CONDENSING UNIT ON ALL SIDES CONDENSER AIR INTAKE CONDENSER FAN OUTLET DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR PROVIDE PIPE SUPPORT AS NECESSARY (TREATED LUMBER IS NOT ACCEPTABLE) MULTIPLE PIPE PORTAL MANUFACTURED BY RPS OR EQUAL 29 1/2" x 28" x 38" H CONDENSING UNIT <p>VIEW TOWARDS REAR OF KITCHEN AT DUCT DROPS SCALE: 1/2"-1'-0"</p>	<p>KEYED NOTES:</p> <ol style="list-style-type: none"> 141" x 72" x 14" H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL 34" x 24 1/2" x 25 1/2" H CONDENSING UNIT FASTEN CONDENSING UNIT TO TOP OF PLATEFORM AND SEAL FASTENER PENETRATIONS WITH UV RESISTANT SEALANT OUTLINE OF SERVICE CLEARANCE EXTENDING FROM CONDENSING UNIT ON ALL SIDES CONDENSER AIR INTAKE CONDENSER FAN OUTLET DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR PROVIDE PIPE SUPPORT AS NECESSARY (TREATED LUMBER IS NOT ACCEPTABLE) MULTIPLE PIPE PORTAL MANUFACTURED BY RPS OR EQUAL 29 1/2" x 28" x 38" H CONDENSING UNIT <p>REFRIGERANT PIPING SIZES: (PER CONDENSING UNIT) <ul style="list-style-type: none"> ICE MACHINE - 1/2" LIQUID, 1/4" SUCTION (CU-3 CONDENSING UNIT) ICE MACHINE - 1/2" LIQUID, 1/4" SUCTION (CU-1 & CU-2 CONDENSING UNITS) </p> <p>REMOTE CONDENSER UNIT (CU-1, CU-2 & CU-3) SCALE: 1/2"-1'-0"</p>	<p>KEYED NOTES:</p> <ol style="list-style-type: none"> 141" x 72" x 14" H EQUIPMENT PLATFORM MANUFACTURED BY RPS OR EQUAL 34" x 24 1/2" x 25 1/2" H CONDENSING UNIT FASTEN CONDENSING UNIT TO TOP OF PLATEFORM AND SEAL FASTENER PENETRATIONS WITH UV RESISTANT SEALANT OUTLINE OF SERVICE CLEARANCE EXTENDING FROM CONDENSING UNIT ON ALL SIDES CONDENSER AIR INTAKE CONDENSER FAN OUTLET DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR PROVIDE PIPE SUPPORT AS NECESSARY (TREATED LUMBER IS NOT ACCEPTABLE) MULTIPLE PIPE PORTAL MANUFACTURED BY RPS OR EQUAL 29 1/2" x 28" x 38" H CONDENSING UNIT <p>REFRIGERANT PIPING SIZES: (PER CONDENSING UNIT) <ul style="list-style-type: none"> ICE MACHINE - 1/2" LIQUID, 1/4" SUCTION (CU-3 CONDENSING UNIT) ICE MACHINE - 1/2" LIQUID, 1/4" SUCTION (CU-1 & CU-2 CONDENSING UNITS) </p> <p>CONDUIT SIZES: (PER CONDENSING UNIT) <ul style="list-style-type: none"> (1) 3/4" POWER (1) 3/4" CONTROL </p> <p>REFRIGERANT PIPING SIZES: (PER CONDENSING UNIT) <ul style="list-style-type: none"> ICE MACHINE - 1/2" LIQUID, 1/4" SUCTION (CU-3 CONDENSING UNIT) ICE MACHINE - 1/2" LIQUID, 1/4" SUCTION (CU-1 & CU-2 CONDENSING UNITS) </p> <p>DRIVING DIAGRAMME: AND AS SUCH ADJUSTMENTS FOR DRIVING DIAGRAMME ARE NOT TO BE MADE. THIS DRAWING IS PREPARED FOR SPECIFIC USE ON THE DATE AND AS INDICATED HEREIN. NO OTHER DATE OR TIME IS INDICATED. THIS DRAWING PROJECT REQUIRES THE SERVICES OF THIS ENGINEER. DRAWINGS ARE THE PROPERTY OF THE ENGINEER AND MAY NOT BE COPIED OR PUBLISHED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER.</p> <p>ROBERT D. ANDERSON Firm No. 5-324 Signature</p>
<p>KEYED NOTES:</p> <ol style="list-style-type: none"> UPBLAST EXHAUST FAN (SEE EXHAUST FAN SCHEDULE) HINGED CURB CAP FOR CLEANING ACCESS (FURNISHED WITH FAN) GREASE TRAP (FURNISHED WITH FAN) NEMA 3R DISCONNECT SWITCH (FURNISHED WITH FAN) 12" HIGH CURB EXTENSION (FURNISHED WITH FAN) 18" HIGH CURB (FURNISHED WITH FAN) TWO (2) LAYERS OF 1/2" THICK DUCT WRAP TO MEET ASTM E2353 INSTALLED PER MANUFACTURER'S INSTRUCTIONS (SEE MECHANICAL NOTES FOR INSULATION SPECIFICATION) 16 GAUGE BLACK IRON (CARBON STEEL) OR 18 GAUGE STAINLESS STEEL DUCTWORK WELDED LIQUID-TIGHT 5-GORE BLACK IRON (CARBON STEEL) RADIUS ELBOW 12" x 6" ACCESS DOOR AT ALL CHANGES IN DIRECTION STAINLESS STEEL FASCIA PANEL TO PROTECT DUCTWORK AND INSULATION BACKSHELF TYPE EXHAUST HOOD (SEE KITCHEN EXHAUST HOOD SCHEDULE) COOKING APPLIANCE (SEE KITCHEN DRAWINGS) REAR WALL CONSTRUCTION SHALL CONSIST OF CERAMIC TILE OR MIN. 22 GAUGE STAINLESS STEEL OVER 1/8" TYPE X GYPSUM BOARD OR 1/2" CEMENT BOARD FROM FLOOR TO CEILING AND EXTENDING 24" TO EACH SIDE OF THE HOOD INSTALLED ON NON-COMBUSTIBLE WALL (REFER TO SHEET A1.0 FOR MORE INFORMATION). 2x10 LIGHT GAUGE STEEL FOR SUPPORT BLOCKING FOR HOOD AND RACEWAY (COORDINATE INSTALLATION WITH HOOD INSTALLER) STRUCTURAL FRAMING FOR ROOF OPENING (SEE STRUCTURAL DRAWINGS) TRANSITION TO FLEXIBLE CONDUIT UNDER ROOF PENETRATION WHERE ALLOWED BY CODE. ROOF PIPE PORTAL, RPS-N18(1) RC-2A 12x12x11H. 1/2" PER FOOT SLOPE PITCHED BACK TOWARDS THE HOOD. <p>KITCHEN EXHAUST HOOD INSTALLATION SECTION SCALE: 1/2"-1'-0"</p>	<p>KEYED NOTES:</p> <ol style="list-style-type: none"> OUTLINE OF ROOFTOP UNIT ROOF CURB SUPPLY AND RETURN AIR DUCT DROPS ROOF OPENING <p>RTU-1 (20 TONS) & RTU-3 (15-TONS) SECTION DETAIL ROOF OPENINGS SCALE: 1/2"-1'-0"</p>	<p>KEYED NOTES:</p> <ol style="list-style-type: none"> 22" x 46" x 27" H PLENUM BOX 24" x 48" PERFORATED DIFFUSER 2" THICK EXT. INSULATION DUCT SUPPORT WITH ATTACHMENT AT TOP OF JOIST OR UNISTRUT SUPPORT WHERE DIRECT ATTACHMENT TO JOIST IS NOT POSSIBLE. TYPICAL 4 PER PLENUM BOX. <p>SUPPLY (S-1) PLENUM INSTALLATION SECTION DETAIL S-1 SCALE: 1/2"-1'-0"</p>	<p>PREPARED FOR:</p> <p>McDonald's USA, LLC</p> <p>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 the project for which they were prepared and shall not be used for any other purpose. Use of these drawings and specifications in connection with any other project or for any other purpose is unauthorized.</p> <p>DRAWN BY: MES STD ISSUE DATE: 2025 REVIEWED BY: JAW DATE ISSUED: 02/14/2025 STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES SITE ADDRESS: 402-3651 NEC -20 & UNIVERSITY HILLS BLVD, LANCASTER, TEXAS</p>

MECHANICAL NOTES

- GENERAL:**
- 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.AABCQ.COM/DIRECTORY>
<HTTP://WWW.NEBC.ORG/DIRECTORY.HTM>
<HTTP://WWW.TABBCERTIFIED.ORG/SITE/CONTENT/CONTRACTORS/SEARCH>
 - UPON COMPLETION OF THE PUNCHLIST, THE MECHANICAL CONTRACTOR AND TEST AND BALANCE CONTRACTOR SHALL SUBMIT REDLINE 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.

VENTILATION SYSTEMS:

 - 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 0.08" 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 CLEAN INSTALLATION OF THE EXTERNAL DUCTWORK INSULATION.
 - ALL DUCTWORK BRANCHES THAT SERVE A SINGLE DIFFUSER SHALL BE SUPPLIED WITH A VOLUME DAMPER FOR BALANCING. BRANCHES THAT SERVE MULTIPLE DIFFUSERS, THE BALANCING IS HANDLED VIA REMOTE DAMPER INSTALLED NEAR THE DIFFUSER. REFER TO M1.2 FOR DAMPER LOCATIONS. VOLUME DAMPER SHALL HAVE A 2" OFFSET TO ACCOMMODATE EXTERNAL INSULATION.
 - 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 FSK-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 2" THICK RIGID POLYSTYRENE, POLYURETHANE OR POLYISOCYANURATE BOARD (MIN. R-8 FOR CLIMATE ZONES 1 THROUGH 4, OR A 3" THICK (MIN. R-12 FOR CLIMATE ZONES 5 THROUGH 8). INTERNAL FIBERGLASS INSULATION SHALL BE LINATEX BY JOHNS MANVILLE OR EQUAL. EXTERNAL RIGID BOARD INSULATION SHALL BE THERMAPINK BY OWENS CORNING OR EQUAL.
 - FOR APPLICABLE SITUATIONS OR PLAYPLACE ADDITIONS: ALL EXPOSED SPIRAL DUCTWORK SHALL BE INTERNALLY INSULATED TO PREVENT CONDENSATION (MIN. R-4.3). INTERNAL INSULATION SHALL BE 1" THICK SPIRAACOUSTIC 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 BARRIER 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:
 A. 2" THICK INSULATION (R-6.0) SEE NOTE #9 AND TABLE(S) BELOW:

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

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

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

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

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

- 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, PROVIDED BY ROOFTOP UNIT MANUFACTURER, SHALL BE INSTALLED IN SYSTEMS WITH DESIGN CAPACITY GREATER THAN 2,000 CFM. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF SMOKE DETECTORS. DUCT-MOUNTED SMOKE DETECTORS ARE NOT REQUIRED WHEN THE BUILDING IS PROTECTED THROUGHOUT BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM WHERE THE FIRE ALARM SYSTEM IS DESIGNED TO SHUT DOWN THE ROOFTOP UNITS.
- 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.
- ALL ROOFTOP CONDENSING UNITS THAT DISCHARGE HORIZONTALLY SHALL BE ORIENTED SUCH THAT THE DISCHARGE DOES NOT BLOW IN THE DIRECTION OF AN OUTDOOR AIR INTAKE.

COMMERCIAL KITCHEN EXHAUST SYSTEMS:

 - 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 $\frac{1}{4}$ " 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.

REFRIGERANT PIPING:

 - 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 REFRIGERATOR 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:

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

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

CO2 DETECTION EQUIPMENT:

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

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

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

 - CONDENSATE PIPING SHALL SLOPE A MINIMUM OF $\frac{1}{8}$ " PER FOOT.
 - CONDENSATE PIPING SHALL BE SIZED BASED ON THE FOLLOWING:

TOTAL TONS SERVED BY PIPE	MINIMUM PIPE SIZE
<20 TONS	$\frac{3}{4}$ "
>20 TONS, <40 TONS	1"
>40 TONS, <125 TONS	$\frac{1}{2}$ "

KH	2	EQUIPMENT TAG
R-1	1750 CFM 18"Ø	DIFFUSER INFORMATION LINE 1: TAG LINE 2: AIRFLOW LINE 3: NECK SIZE
O.A.		LINER SLOT DIFFUSER

FPC

GC

I.D.

KEI

KES

SSC

MC

O.A.

O.D.

O/O

PC

R.A.

RC

S.A.

S.P.

MC

SPIN-IN COLLAR WITH VOLUME DAMPER

VOLUME DAMPER

FLEXIBLE DUCTWORK

12"Ø

CEILING-MOUNTED EXHAUST FAN

SPER

PERFORATED FACE DIFFUSER

SHEET METAL DUCTWORK W/DIA. SIZE

SHEET METAL TEE WITH CAP

12"Ø

COORDINATION SCHEDULE

GENERAL REQUIREMENTS	FURNISH	INSTALL	FINAL CONNECTION	NOTES
MECHANICAL PERMIT	MC			1-3
HOT WORK (WELDING) PERMIT (IF APPLICABLE)	MC			1-3
REFRIGERATION PERMIT (IF APPLICABLE)	KES			1-3
PLUMBING PERMIT	PC			1-3
ELECTRICAL PERMIT	EC			1-3
FIRE SPRINKLER PERMIT (IF APPLICABLE)	FPC			1-3
FIRE ALARM PERMIT (IF APPLICABLE)	FAC			1-3
CONTRACTOR COORDINATION REQUIREMENTS				
HEATING & AIR-CONDITIONING				
ROOFTOP UNITS, INTAKE AND RELIEF	MCD CP	MC		1-5, 17, 22
ROOF CURBS	MCD CP	MC		1-3, 20, 22
GAS PIPING AND GAS PIPE KIT	PC	PC	PC	1-3, 14, 22-23
CONTROLS WIRING	MC	EC	EC	1-3, 19, 22, 24
POWER WIRING	EC	EC	EC	1-3, 19, 22, 24
CONDENSATE TRAP	MC	PC		1-3, 22-23
CONDENSATE PIPING (IF APPLICABLE)	PC	PC		1-3, 22-23
DUCT-MOUNTED SMOKE DETECTOR	MC	MC	EC	1-3, 22, 24
GENERAL EXHAUST SYSTEMS				
EXHAUST FANS	MCD CP	MC		1-3, 17, 22
ROOF CURBS	MCD CP	MC		1-3, 22
CONTROLS (WHERE APPLICABLE)	MC	EC	EC	1-3, 22, 24
POWER WIRING	EC	EC	EC	1-3, 22, 24
TEMPERATURE CONTROLS				
BUILDING AUTOMATION SYSTEM	MCD CP	MC	EC	1-3, 22, 24
REMOTE SENSORS (RH AND/OR TEMPERATURE)	MC	MC	EC	1-3, 22, 24
CONTROLS WIRING (WHERE APPLICABLE)	MC	EC	EC	1-3, 22, 24
POWER WIRING	EC	EC	EC	1-3, 22, 24
DUCTWORK AND ACCESSORIES				
GALVANIZED SHEET METAL DUCTWORK	MC	MC		1-3, 22
EXTERNAL INSULATION	MC	MC		1-3, 22
INTERNAL INSULATION (IF APPLICABLE)	MC	MC		1-3, 22
WEATHERPROOFING (IF APPLICABLE)	MC	MC		1-3, 22
SPIN-IN COLLARS	MC	MC		1-3, 22
FLEXIBLE DUCTWORK	MC	MC		1-3, 22
VOLUME/BALANCING DAMPERS	MC	MC		1-3, 22
FIRE DAMPERS (IF APPLICABLE)	MC	MC		1-3, 22
FIRESTOPPING (IF APPLICABLE)	MC	MC		1-3, 22
AIR DEVICES AND ACCESSORIES	MC	MC	MC	1-3, 7, 22, 28
PLUMBING SYSTEMS				
WATER HEATERS	MCD CP	PC	PC	1-3, 11-12, 23
HOT AND COLD WATER PIPE	PC	PC	PC	1-3, 23
VENTS AND INTAKES	PC	PC	PC	1-3, 23
THERMOSTATIC MIXING VALVE	PC	PC	PC	1-3, 23
POWER AND CONTROL WIRING	EC	EC	EC	1-3, 23-24
KITCHEN EXHAUST SYSTEMS				
MCDONALD'S BACKSHLF 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)	GO	GC		1-3, 6, 20, 22
EXHAUST FANS	MCD CP	MC		1-3, 6, 17, 22
ROOF CURBS	MCD CP	MC		1-3, 6, 20, 22
CURB EXTENSIONS	MC	MC		1-3, 6, 22
CONTROLS (WHERE APPLICABLE)	EC	EC	EC	1-3, 6, 22, 24
POWER WIRING	EC	EC	EC	1-3, 6, 22, 24
FIRE SUPPRESSION SYSTEM				
KITCHEN EQUIPMENT	KES	KES	KES	1-3, 16, 22, 27
COOLER/FREEZER	KES	GC		1-3, 27
EVAPORATOR COILS	KES	MC		1-3, 27
CONDENSATE PIPING	PC	PC	PC	1-3, 23, 27
REMOTE CONDENSING UNIT (MAC)	KES	MC		1-3, 22, 27
ROOF CURBS	MC	MC		1-3, 22
REFRIGERANT PIPING	KES	MC	MC	1-3, 22, 27
POWER WIRING	EC	EC	EC	1-3, 22, 24, 27
CONTROL WIRING	EC	EC	EC	1-3, 24, 27
PIPE PORTALS	MC	MC		1-3, 22
ICE MACHINES	KES	KEI		1-3, 27
WATER SUPPLY PIPING	KES	KEI	BSI	1-3, 27
REMOTE CONDENSING UNITS	KES	MC		1-3, 22, 27
ROOF CURBS	MC	MC		1-3, 22, 27
REFRIGERANT PIPING	KES	MC	MC	1-3, 22, 27
POWER WIRING	EC	EC	EC	1-3, 22, 24, 27
CONTROL WIRING	KES	EC	EC	1-3, 24, 27
PIPE PORTALS	MC	MC		1-3, 22
GRILLS	KES	KES		1-3, 27
GAS PIPING (IF APPLICABLE)	PC	PC	PC	1-3, 23, 27
POWER WIRING	EC	EC	EC	1-3, 24, 27
CONTROL CABLE (6" CLAMSHELL ONLY)	MC	EC	EC	1-3, 23, 24, 27
FRYERS	KES	KES		1-3, 27
GAS PIPING (IF APPLICABLE)	PC	PC	PC	1-3, 23, 27
POWER WIRING	EC	EC	EC	1-3, 24, 27
3-COMPARTMENT SINK	KES	KES		1-3, 12, 27
FAUCETS AND PRE-RINSE SPRAYER	KES	KES		1-3, 27
WATER SUPPLY PIPING	PC	PC	PC	1-3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1-3, 23, 27
HAND SINKS	MCD CP	PC		1-3, 23, 27
FAUCET	MCD CP	PC		1-3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1-3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1-3, 23, 27
VEGETABLE SINK	KES	KES		1-3, 23, 27
FAUCET	KES	KES		1-3, 23, 27
WATER SUPPLY PIPING	PC	PC	PC	1-3, 23, 27
SANITARY DRAIN PIPING	PC	PC	PC	1-3, 23, 27
WASHING MACHINE	KES	KES		1-3, 23, 27
WATER SUPPLY PIPING	PC	PC		1-3, 23, 27
SANITARY DRAIN PIPING	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	KES/BSI	EC/BSI	EC/BSI	1-3, 22, 27

AIR DEVICE SCHEDULE

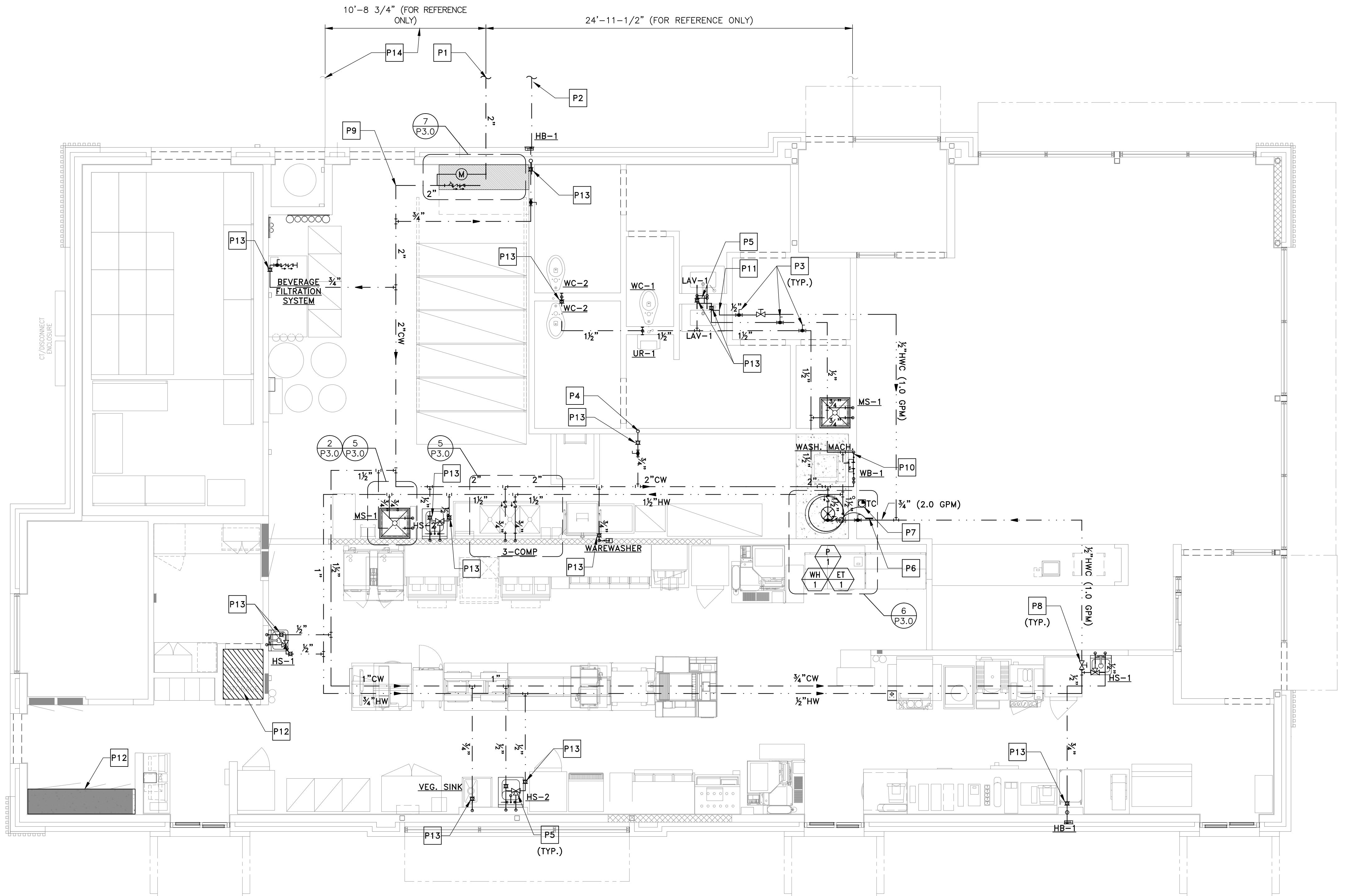
TAG	MANUFACTURER	MODEL	BORDER	SIZE	COLOR	ACCESSORIES	NOTES
S-1	TITUS	PDDR	LAY-IN	48x24	WHITE	7	1,2,8
S-2	TITUS	OMNI	LAY-IN	24x24	VARIABLE	4,6,7	1,6,7,8
S-3	TITUS	OMNI	LAY-IN	12x12	VARIABLE	1,2,7	1,3,6,8
S-4	TITUS	TBDI-80	LAY-IN	(2) ^{48"} _{¾"} SLOTS	VARIABLE	7	1,5,6,8
R-1	TITUS	PAR	LAY-IN	24x24	VARIABLE	7	1,6,8
R-2	TITUS	355RL	SURFACE MOUNT	4x12	WHITE	-	8
E-1	TITUS	355RL	LAY-IN	12x12	WHITE	1,7	1,8

ACCESORIES:							
1. COMBINATION DAMPER AND EQUALIZING GRID							
2. PLASTER FRAME FOR DRYWALL CEILING INSTALLATION							
3. (NOT USED)							
4. BACKPAN INSULATION							
5. GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL 4 FT. T-BAR FOR DIFFUSER FRAMING							
6. AIR DEVICE FINISH WILL VARY: * KITCHEN, STORAGE, RESTROOMS - WHITE * DINING ROOM, VESTIBULES - WHITE, BLACK OR PAINTABLE/PRIME COAT (COORDINATE FINAL COLOR WITH DECOR PLANS).							
7. ADDITIONAL ACCESSORIES AND/OR ALTERNATE DIFFUSERS MAY BE REQUIRED. REFER TO DECOR DRAWINGS TO VERIFY.							
8. ACCEPTABLE ALTERNATIVE MANUFACTURERS: NAILOR & METALAIRE.							

NOTES:
 1. SEE PLAN FOR NECK SIZES
 2. FABRICATE 46"X22"X27" PLENUM WITH 14" SIDE INLET (SEE DETAIL 10 ON DRAWING M3.0)
 3. PROVIDE 1" FIBERGLASS INSULATION FOR DIFFUSER BACKPAN
 4. NOT USED
 5. GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL 4 FT. T-BAR FOR DIFFUSER FRAMING
 6. AIR DEVICE FINISH WILL VARY:
 * KITCHEN, STORAGE, RESTROOMS - WHITE
 * DINING ROOM, VESTIBULES - WHITE, BLACK OR PAINTABLE/PRIME COAT (COORDINATE FINAL COLOR WITH DECOR PLANS).
 7. ADDITIONAL ACCESSORIES AND/OR ALTERNATE DIFFUSERS MAY BE REQUIRED. REFER TO DECOR DRAWINGS TO VERIFY.
 8. ACCEPTABLE ALTERNATIVE MANUFACTURERS: NAILOR & METALAIRE.

AIR CURTAIN SCHEDULE							

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DOMESTIC WATER PIPING

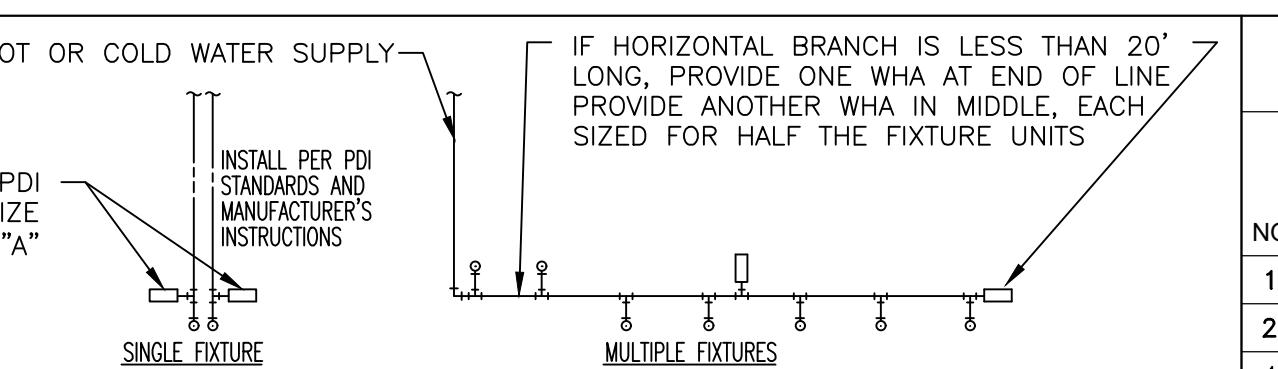
SCALE: 1/4" = 1'-0"

DRAWING NOTES

- PIPING ROUTES AS SHOWN ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES. MAKE SURE HOT WATER MAIN LOOP REMAINS WITHIN 10 FT OF FIXTURE FOR ENERGY CODE PURPOSE.
- ALL WATER DISTRIBUTION PIPING SHALL BE INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS, SHEET M4.0, "DOMESTIC SUPPLY SYSTEMS", NOTE 18.
- INCOMING UNDERGROUND WATER SERVICE (SEE SITE PLAN FOR CONTINUATION). WATER PIPING FROM THIS POINT TO CEILING PENETRATION INSIDE BUILDING SHALL BE COPPER.
- COLD WATER UNDERGROUND TO YARD HYDRANT (HB-2) IN TRASH CORRAL. SEE SITE PLAN FOR CONTINUATION.
- SHUT-OFF VALVE FOR RESTROOM ISOLATION. SEE VALVE SCHEDULE. ALL SHUT-OFF VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- 3/4" COLD WATER UP TO ROOF HYDRANT.
- FOR MIXING VALVE LOCATIONS AND INSTALLATION DETAILS ON PUBLIC LAVATORIES, SEE DETAIL 3 ON DRAWING P3.0 FOR PRIVATE HAND SINKS OR LAVS, MIXING VALVES FOR INFORMATIONAL PURPOSES.
- PIPE-MOUNTED AQUASTAT TO SHUT PUMP DOWN WHEN RECIRCULATION TEMPERATURE REACHES 140°F. SEE DETAIL 6 ON DRAWING P3.0.
- TIME CLOCK TO SHUT PUMP AND WATER HEATER DOWN DURING UNOCCUPIED HOURS. SEE ELECTRICAL DRAWINGS FOR WIRING DETAIL.
- 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.
- WATER PIPING AFTER CEILING PENETRATION CAN TRANSITION TO CPVC OR PEX WHERE PERMITTED BY CODE.
- PROPERLY SEAL ALL PIPE PENETRATIONS THROUGH DRAFT STOP WALL (TYP.)
- HOT WATER RECIRCULATION SHALL CONNECT WITHIN 6" OF SUPPLY STUB OUT TO FIXTURE.
- UTILITIES SHALL NOT BE ROUTED ABOVE THE TECH. CLOSET AND THE SWITCHGEAR.

KEYED NOTES

- P1 INSTALL UNDERGROUND WATER SERVICE (SEE SITE PLAN FOR CONTINUATION). WATER PIPING FROM THIS POINT TO CEILING PENETRATION INSIDE BUILDING SHALL BE COPPER.
- P2 COLD WATER UNDERGROUND TO YARD HYDRANT (HB-2) IN TRASH CORRAL. SEE SITE PLAN FOR CONTINUATION.
- P3 SHUT-OFF VALVE FOR RESTROOM ISOLATION. SEE VALVE SCHEDULE. ALL SHUT-OFF VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P4 3/4" COLD WATER UP TO ROOF HYDRANT.
- P5 FOR MIXING VALVE LOCATIONS AND INSTALLATION DETAILS ON PUBLIC LAVATORIES, SEE DETAIL 3 ON DRAWING P3.0 FOR PRIVATE HAND SINKS OR LAVS, MIXING VALVES FOR INFORMATIONAL PURPOSES.
- P6 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 OR PEX WHERE PERMITTED BY CODE.
- P10 PROPERLY SEAL ALL PIPE PENETRATIONS THROUGH DRAFT STOP WALL (TYP.)
- P11 HOT WATER RECIRCULATION SHALL CONNECT WITHIN 6" OF SUPPLY STUB OUT TO FIXTURE.
- P12 UTILITIES SHALL NOT BE ROUTED ABOVE THE TECH. CLOSET AND THE SWITCHGEAR.
- P13 INSTALL WATER-HAMMER ARRESTOR WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
- P14 MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM THE INCOMING DOMESTIC WATER TO THE GREASE WASTE AND SANITARY LINES.



PDI SIZE	PIPE SIZE	Fixture Unit Load
A	1/2"	1-11
B	3/4"	12-32

Fixture	Cold	Hot
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
HOSE BIBB	2	--
SODA FACTORY	10	--
WARE WASHER	4	--

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

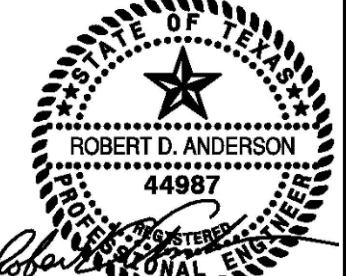
DETAIL
WATER-HAMMER ARRESTER (TYP.)
NOT TO SCALE
P1.0

Fixture Count - IPC

No.	Fixture Description	Supply			
		WSFU	Cold	Hot	Total
1	VEGETABLE PREP SINK	4	3/4"	-	4
2	HAND SINK	1	1/2"	1/2"	2
4	HOSE BIBB	3	3/4"	-	12
1	SODA FACTORY	10	1"	-	10
1	KITCHEN SINK (3-COMP)	4	3/4"	3/4"	4
2	MOP SINK	2	3/4"	3/4"	4
2	LAVATORY	1	1/2"	1/2"	2
1	URINAL	5	1"	-	5
3	WATER CLOSET	5	1 1/2"	-	15
1	WASHING MACHINE	4	3/4"	3/4"	4
1	WARE WASHER	4	3/4"	-	4
					TOTAL: 66
					(55 GPM)

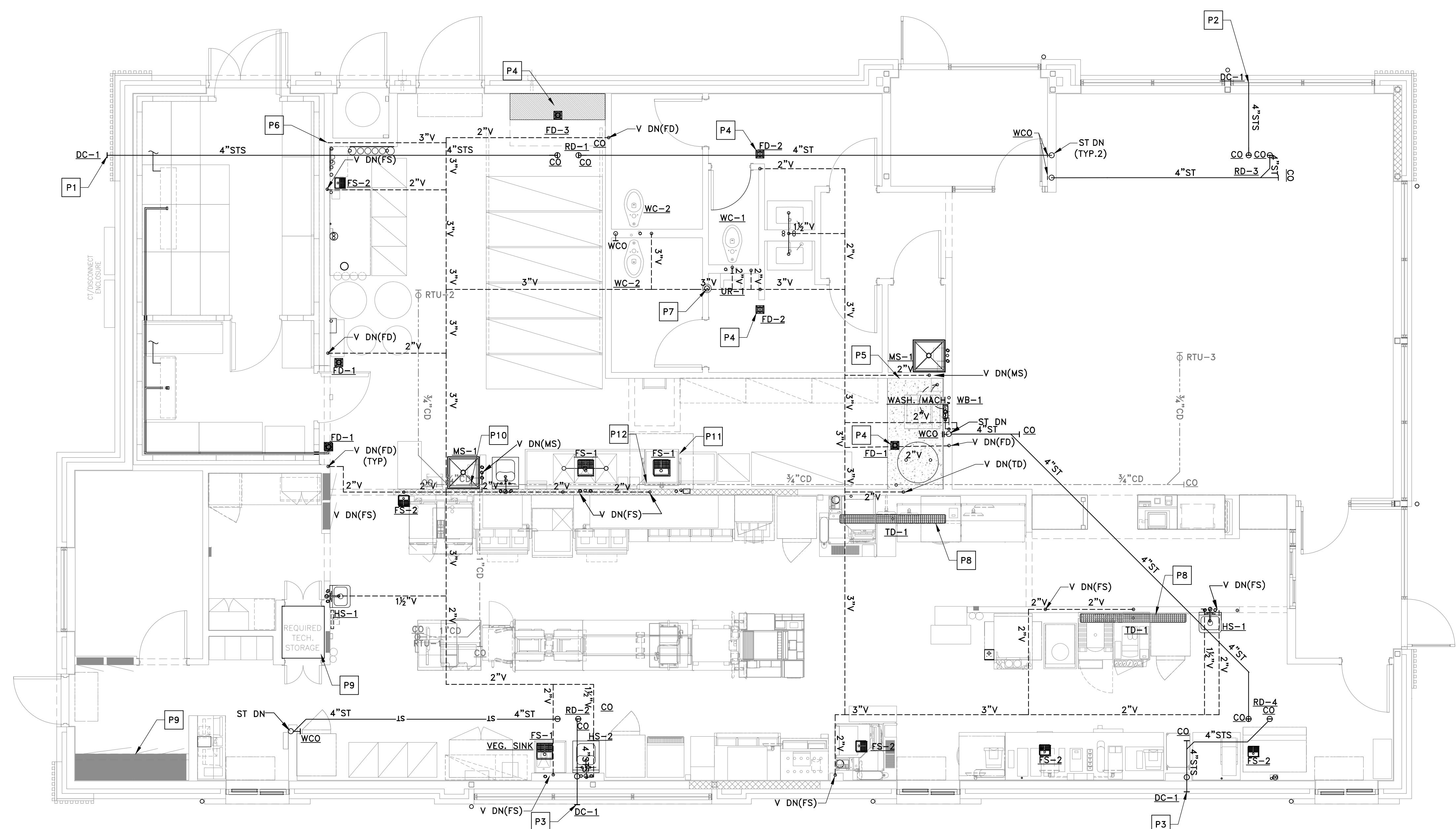
McDonald's USA, LLC

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DESCRIPTION	REV	DATE
Robert D. Anderson, Inc. MEP Engineering & Design Consultants HVAC Illumination Plumbing Power Distributor Control		
Robert D. Anderson 4405 Zinn Rd. Garland, TX 75043		
voice: 972-847-7204 email: robert.anderson@bigslegal.net contact: Mark Swanson Project Manager voice: 817-556-0986 email: mark@mswdesigns.com		
DRAWING IS DRAFTSMANSHIP AND AS SUCH ADJUSTMENTS FOR CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THIS DRAWING IS PREPARED FOR SPECIFICATIONS ON THE DATE AND AS INDICATED HEREIN. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING THIS DRAWING FOR CONSTRUCTION USE. THIS PROJECT REQUIRES THE SERVICES OF THIS ENGINEER. DRAWINGS ARE PROVIDED FOR CONSTRUCTION USE ONLY. THEY ARE NOT TO BE PURCHASED OR USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CONTRACTOR. NO WARRANTIES ARE PROVIDED.		
 ROBERT D. ANDERSON 4405 ZINN RD. GARLAND, TX 75043 Firm No. E-5324 1/30/25		

P1.0
DOMESTIC WATER PIPING

JAWA 24-0220
2025 STANDARD BUILDING - BB20
4584 - WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/4" BRICK/STONE VENEER
WOOD ROOF TRUSS FRAMING
STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES
SITE ID: 042-3651
ADDRESS: -20 & UNIVERSITY HILLS BLVD, LANCaster, TEXAS
SHEET NO. 1/1



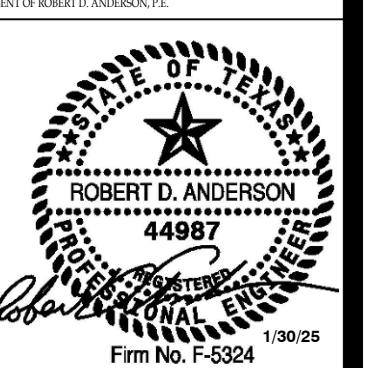
VENT & STORM PIPING PLAN
P1.2
SCALE: 1/4" = 1'-0"

DRAWING NOTES		KEYED NOTES		STORM PIPE SIZING	
1. PIPING ROUTES ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.	P1 TERMINATE OVERFLOW DRAIN AS HIGH AS POSSIBLE WITH DOWNSPOUT COVER.			RAINFALL = 10 IN./HR	DRAWN BY MES DRAWN 2025
2. WALL CLEAN-OUTS FOR WASTE PIPING NOT SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.	P2 TERMINATE OVERFLOW DRAIN ABOVE TRELLIS WITH DOWNSPOUT COVER. BOTTOM OF DOWNSPOUT OUTLET PIPE SHALL BE AT LEAST 3" BUT NOT MORE THAN 8" ABOVE TOP OF TRELLIS.			VERTICAL LEADERS JAW	ISSUE DATE 02/14/2025
3. ONLY MAIN FLOOR CLEAN-OUTS ARE SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.	P3 TERMINATE BOTTOM OF OVERFLOW DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER.			ROOF AREA SIZE	REVIEWED BY JAW
4. ALL HORIZONTAL STORM DRAINAGE PIPING SHALL BE INSULATED TO PREVENT CONDENSATION. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS.	P4 PROVIDE PROSET TRAP GUARD® FOR FLOOR DRAIN.			ROOF DRAIN SQ. FT. IN.	DATE ISSUED
	P5 TOP OF CONCRETE SLAB IS 0'-6" A.F.F.			RD-1 1,140 4	
	P6 VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.			RD-2 1,221 4	
	P7 4" VENT UP THROUGH ROOF WITH A 4"x5" VENT CAP			RD-3 686 4	
	P8 REFERENCE MANUFACTURER INSTALLATION GUIDE FOR LAYOUT AND SLOPING GUIDELINES PRIOR TO INSTALL AND POURING THE SLAB.			RD-4 686 4	
	P9 UTILITIES SHALL NOT BE ROUTED ABOVE THE TECH. CLOSET AND THE SWITCHGEAR.			TOTAL 3,733	
	P10 CONDENSATE LINE FROM RTUs DOWN TO DRAIN AT MOP SINK INDIRECT WITH AIR GAP 2 x DIAMETER. TERMINATE PIPE ABOVE FLOOD RIM. FURNISHED AND INSTALLED BY PC. SEE COORDINATION SCHEDULE ON P4.1 & M4.1.			HORIZONTAL PIPING (SLOPE 1/4" PER FOOT)	
	P11 CONTRACTOR SHALL ROUTE 1/2" OD 304 S/S PIPE (PROVIDED BY OTHERS) FROM TYPE II EXHAUST HOOD TO FLOOR SINK.			ROOF AREA SIZE	
	P12 CONTRACTOR SHALL INSTALL DRAIN PIPE AND AIR GAP KIT (PROVIDED BY OTHERS). CONNECT DRAIN HOSES FROM WAREWASHER TO DRAIN PIPE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL 9/P3-0 FOR FURTHER DETAILS.			ROOF DRAIN SQ. FT. IN.	
				RD-2 & RD-4 1,907 6	
				RD-1 & RD-2 & RD-3 & RD-4 3,733 6	

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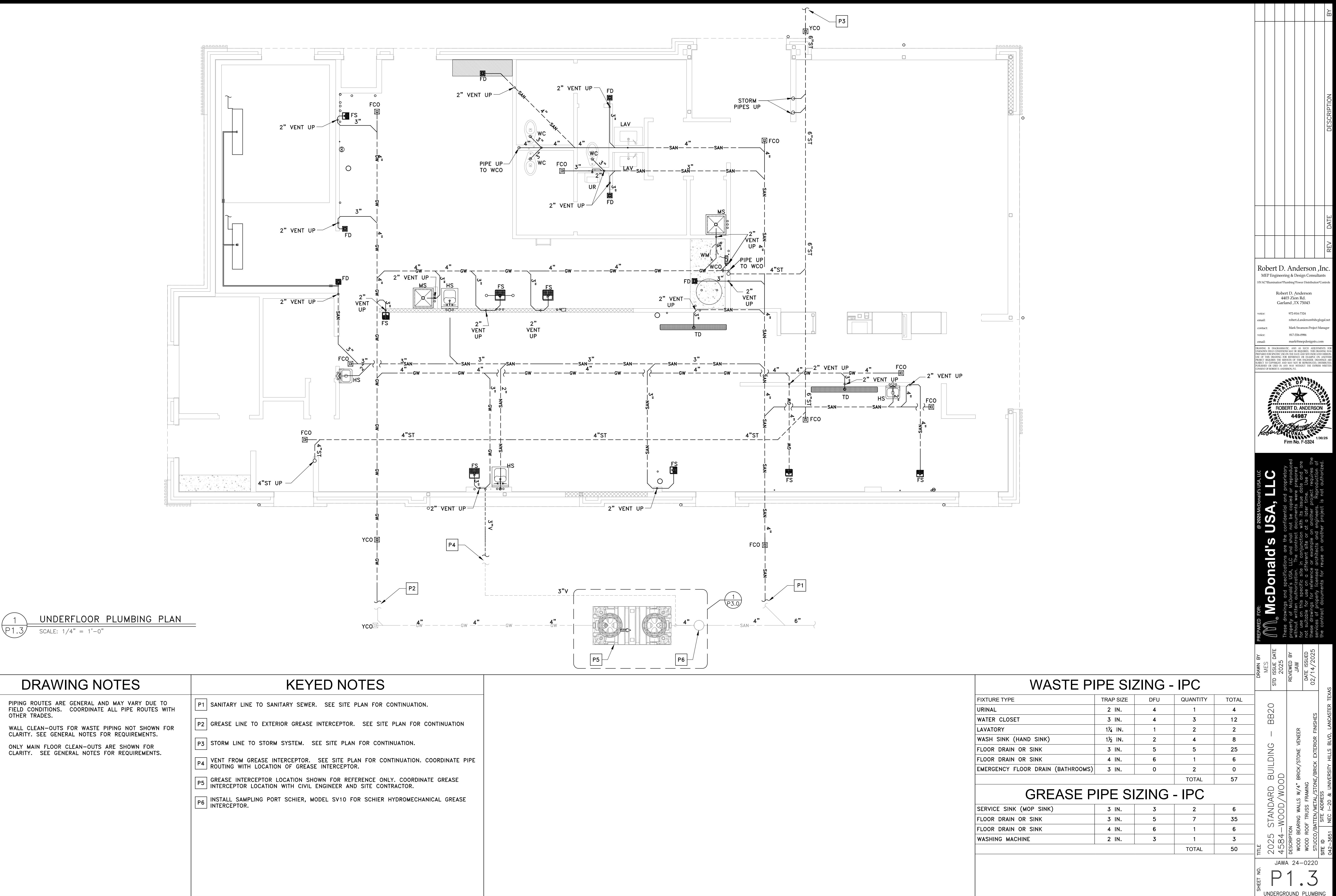
DRIVING DIAGRAMATIC, AND AS SUCH ADJUSTMENTS FOR ENGINEERING, DESIGN, OR CONSTRUCTION PURPOSES CAN BE MADE ON THE DATA AND INDICATED BRICK OR BLOCK LOCATIONS. THIS DRAWING IS THE PROPERTY OF THE PROJECT OWNER. NO PART OF THIS ENGINEER DRAWINGS ARE TO BE COPIED, REPRODUCED, OR USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF PROJECT OWNER.

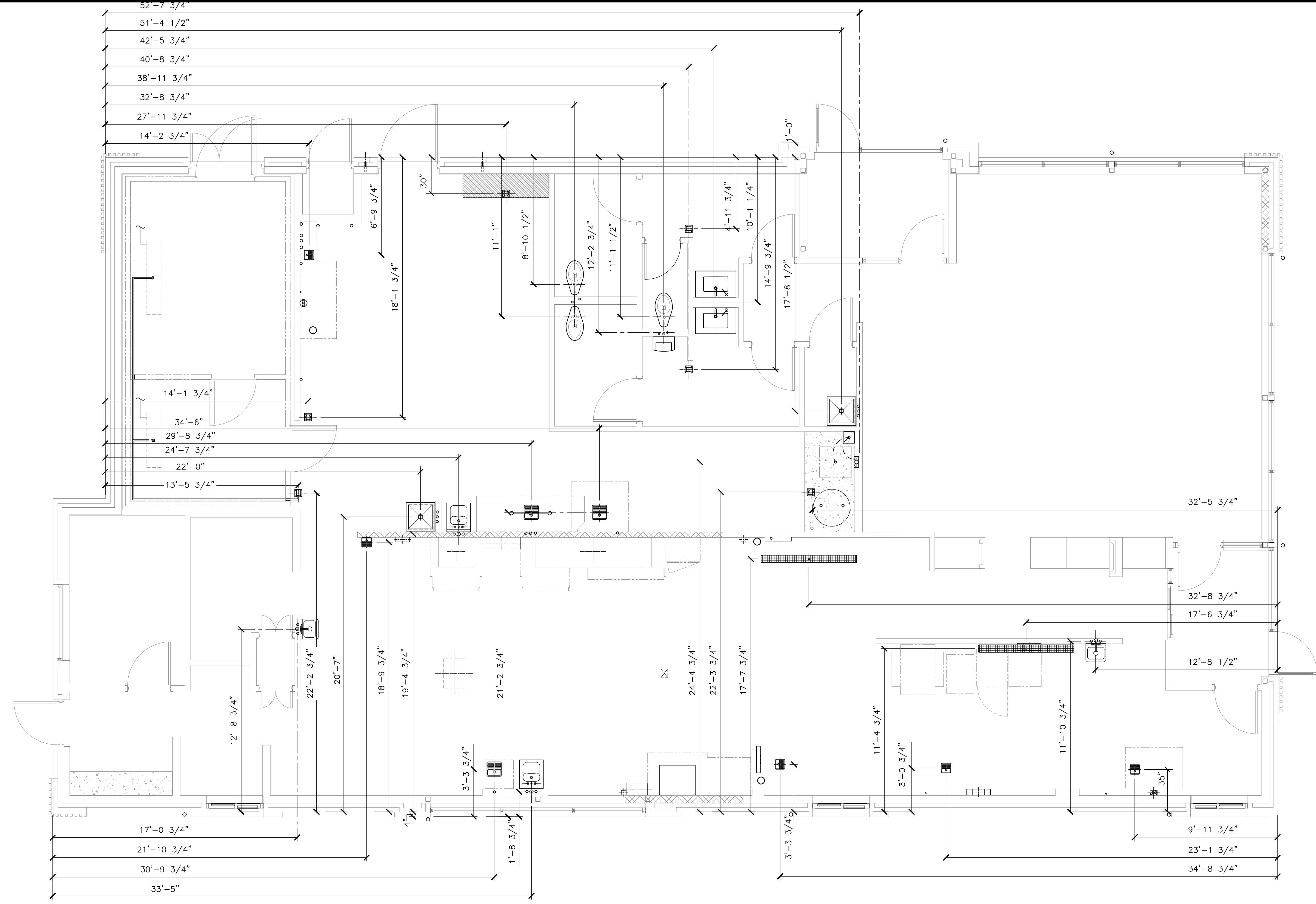


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SHEET NO.	TITLE	DESCRIPTION	STUDY NUMBER
P1.2	JAWA 24-0220 VENT & STORM PIPING PLAN	2025 STANDARD BUILDING - BB20 4584 - WOOD/WOOD WOOD BEARING WALLS W/4" BRICK/STONE VENEER STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES SITE ID -20 & UNIVERSITY HILLS BLD, LANCaster TEXAS	042-3651 NEC





1 UNDERGROUND ROUGH-IN
P 1.4 SCALE: 1/4" = 1'-0"

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

DRAWING NOTES

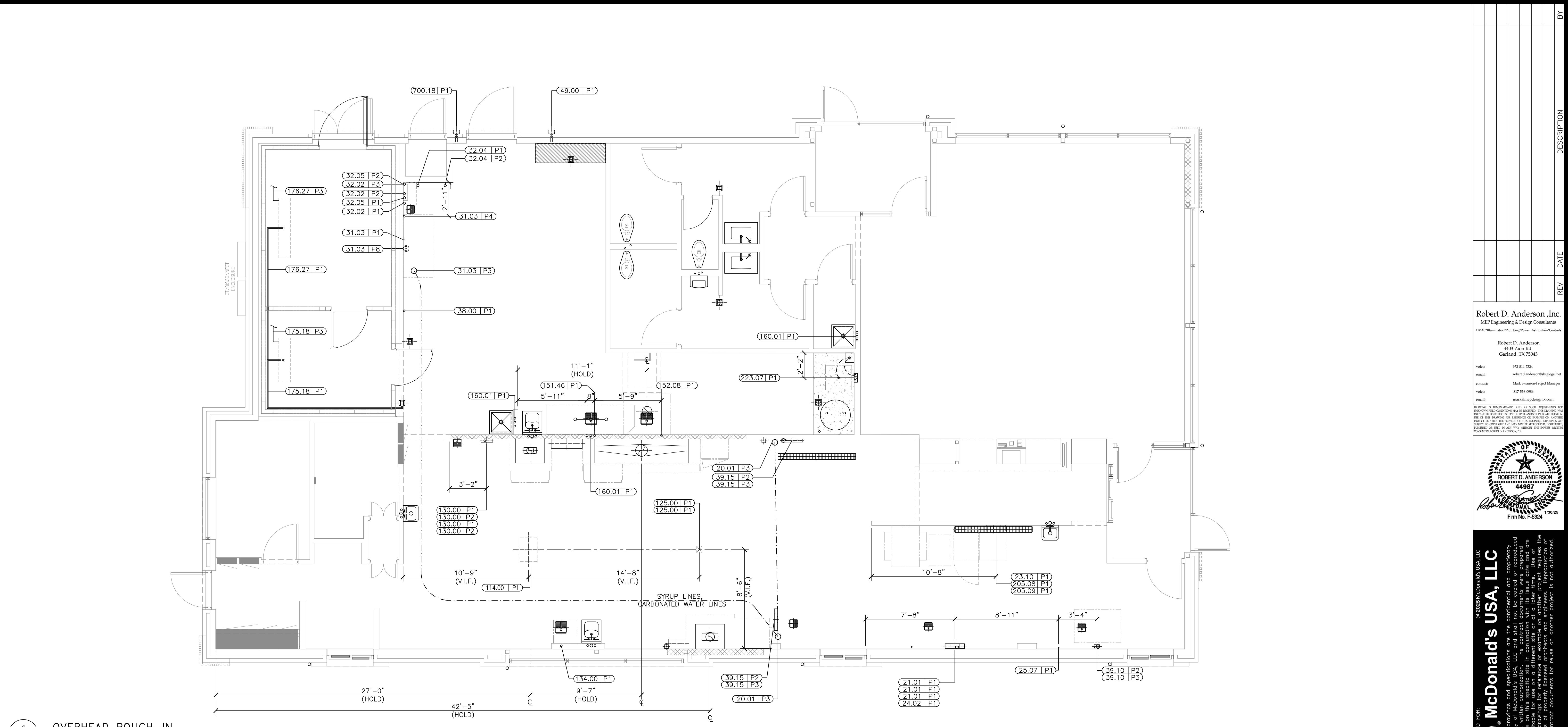
1. THIS PLAN IS PROVIDED AS A GUIDE FOR THE PLUMBING CONTRACTOR. ALL DIMENSIONS ARE ROUNDED TO THE NEAREST $\frac{1}{4}$ " AND ARE TAKEN FROM THE OUTSIDE EDGE OF THE FOUNDATION WALL TO CENTERLINE OF SLAB PENETRATION.

2025 STANDARD BUILDING – BB20 4584-WOOD/WOOD		STD ISSUE DATE 2025	MES
DESCRIPTION	WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD ROOF TRUSS FRAMING STUCCO/BATTEN/METAL/STONE/BRICK EXTERIOR FINISHES	REVIEWED BY JAW	
SITE ID	SITE ADDRESS 042-3651 NEC I-20 & UNIVERSITY HILLS BLVD, LANCASTER TEXAS	DATE ISSUED 02/14/2025	
		REV	DATE
		DESCRIPTION	
		BY	

JAWA 24-0220

P 1 . 4

UNDERGROUND ROUGH-IN



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

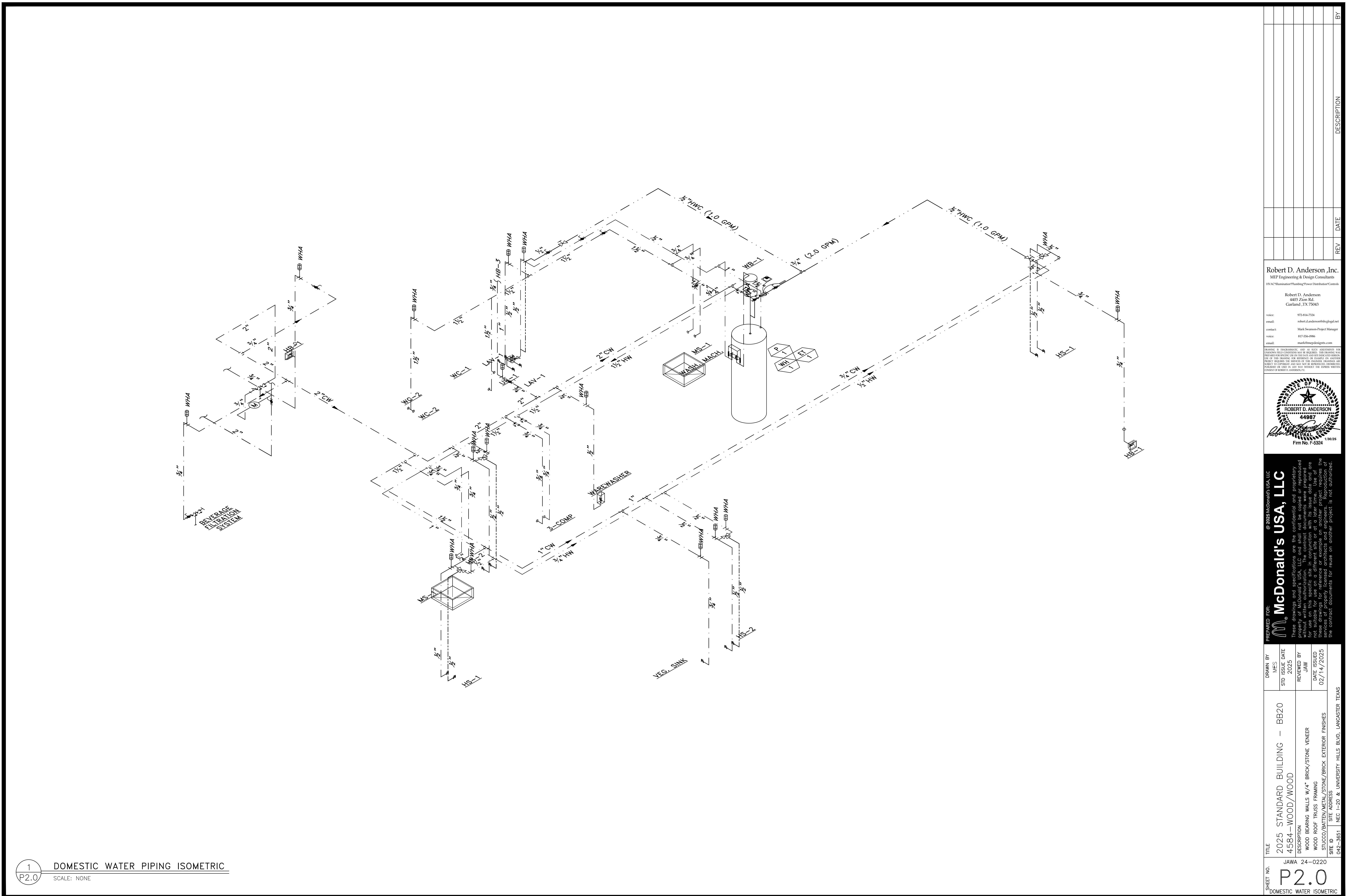
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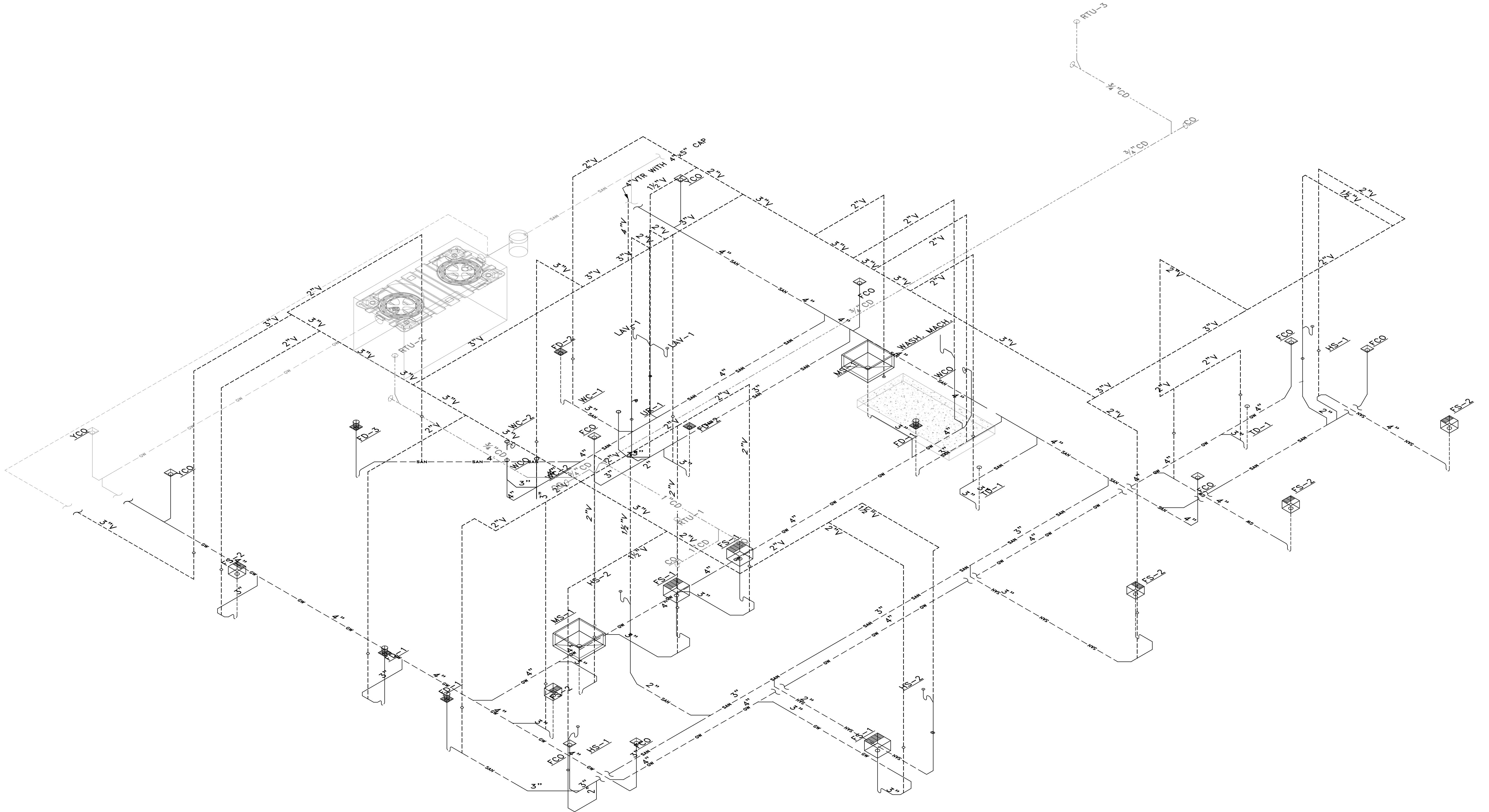
PLUMBING SCHEDULE

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

PLUMBING SCHEDULE

PLUMBING SCHEDULE														DRAWN BY MES	STD ISSUE DATE 2025	REVIEWED BY JAW	DATE ISSUED 02/14/2025
TAG #	QTY	DESCRIPTION	GAS TYPE	GAS BTU	GAS SIZE	HW	CW	MISC PLBG	HGT AFF	DRAIN	REQUIREMENTS & REMARKS						
FINAL	039.10P3	1 ICE MACHINE - 1400 LB.	-	-	-	-	-	REFRIG LINES	-	-	REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT						
OJB - BSI TO	039.15P2	2 ICE MACHINE - 1000 LB.	-	-	-	-	1/2" TRTD	-	SEE RMKS	3/4" IND	WATER LINE OVERHEAD FROM SODA SYSTEM - BSI TO MAKE FINAL CONNECTIONS PER LOCAL CODES						
OJB - BSI TO	039.15P3	2 ICE MACHINE - 1000 LB.	-	-	-	-	-	REFRIG LINES	-	-	REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT						
OJB - BSI TO	049.00P1	1 CO2 FILL BOX	-	-	-	-	-	-	3'-4"	-	HEIGHT IS TO BOTTOM OF FILL BOX; SUPPLIED BY MANUFACTURER; INSTALLED BY G.C. SEE BUILDING ELEVATIONS.						
OJB - BSI TO	114.00P1	1 HUMIDIFIED HOLDING CABINET	-	-	-	-	3/8" R.O.	-	SEE RMKS	-	BSI EXTENDS CW LINE OVERHEAD FROM R.O. SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF						
OJB - BSI TO	125.00P1	2 RAPID BUN STEAMER	-	-	-	-	3/8" R.O.	-	SEE RMKS	-	BSI EXTENDS CW LINE FROM R.O. SYSTEM & TERM. W/QUICK DISCONN.						
N PER LOCAL	130.00P1	2 COMBI OVEN	-	-	-	-	1/2" FLTR	-	SEE RMKS	1 1/2" IND	BSI EXTENDS CW LINE OVERHEAD FROM SODA SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF						
CTIONS PER	130.00P2	2 COMBI OVEN	-	-	-	-	3/8" R.O.	-	SEE RMKS	-	BSI EXTENDS CW LINE OVERHEAD FROM R.O. SYSTEM & TERM. W/QUICK DISCONN. AND SHUTOFF						
EIGHT IN FIELD)	134.00P1	1 VEGETABLE SINK	-	-	-	-	3/4"	-	1'-10"	1-1/2" IND	-						
ONN PER LOCAL	151.46P1	1 SOILED DIShtable - RIGHT HAND - 90.5" WIDE	-	-	-	3/4" 140	3/4"	-	1'-6"	-	PC MAKES FINAL CONNECTIONS PER LOCAL CODE						
(OPT.) - BSI TO	152.08P1	1 WAREWASHER - HIGH TEMP	-	-	-	-	3/4"	-	SEE RMKS	1" INDIRECT	PC TO PROVIDE HW, CW, INDIRECT DRAIN PIPING AND MAKE ALL FINAL CONNECTIONS. CW @ 1'-0" AFF, DRAIN @ 36"						
RESSO, &	160.01P1	3 CHEMICAL SYSTEM	-	-	-	3/4" 110	-	-	SEE RMKS	-	PC TO PROVIDE 3/4" MHT. FINAL CONNECTIONS BY EQUIPMENT INSTALLER PER LOCAL CODE, SEE SHEET P3.0 FOR INSTALLATION HEIGHT						
NN PER LOCAL	175.18P1	1 COOLER EVAPORATOR	-	-	-	-	-	-	3/4" COND.	PC TO ROUTE CONDENSATE DRAIN LINE TO FLOOR DRAIN. PC TO LIQUID-TIGHT SEAL OPENING FOR LINE EXITING BOX							
TO MAKE	175.18P3	1 COOLER EVAPORATOR	-	-	-	-	-	REFRIG LINES	-	-	RUN TO REMOTE CONDENSING UNIT - INSULATE FULL RUN LENGTH - INSTALLED BY REFRIG. CONTRACTOR						
UNIT	176.27P1	1 FREEZER EVAPORATOR	-	-	-	-	-	-	3/4" COND.	PC TO ROUTE CONDENSATE DRAIN LINE TO FLOOR DRAIN. PC TO LIQUID-TIGHT SEAL OPENING FOR LINE EXITING BOX. HEAT TAPE BY REF.							
CONNECTIONS	176.27P3	1 FREEZER EVAPORATOR	-	-	-	-	-	REFRIG LINES	-	-	RUN TO REMOTE CONDENSING UNIT - INSULATE FULL RUN LENGTH - INSTALLED BY REFRIG. CONTRACTOR						
	205.08P1	1 BIC MACHINE	-	-	-	-	1/2" FLTR	-	SEE RMKS	1" IND	DN CHASE. IF NO CHASE RUN IN 2"COND TO JB - BSI TO CONNECT LINES PER LOCAL CODES						
	205.09P1	1 FROZEN BEVERAGE DISPENSER	-	-	-	-	1/2" FLTR	3/8" CO2	SEE RMKS	-	DN CHASE. IF NO CHASE RUN IN 2"COND TO JB - BSI TO CONNECT LINES PER LOCAL CODES						
	223.07P1	1 WASHER	-	-	-	3/4" 140	3/4"	-	4'-0"	1 1/2" D	SEE PLUMBING DWGS FOR WALL BOX. INSTALL HEIGHT IS TO BOTTOM OF THE BOX						
	700.18P1	1 BULK OIL FILL BOX	-	-	-	-	-	-	3'-4"	-	HEIGHT IS TO BOTTOM OF FILL BOX; SUPPLIED BY MANUFACTURER; INSTALLED BY G.C. SEE BUILDING ELEVATIONS.						





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PREPARED FOR:
JAW
McDonald's USA, LLC

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DRAWN BY:
MES

STD ISSUE DATE

2025

REVIEWED BY:

JAW

DATE ISSUED

02/14/2025

DESCRIPTION: 2025 STANDARD BUILDING - BB20
4584-WOOD/STONE

STORY NUMBER:

1

STRUCTURAL:

WOOD BEARING WALLS W/4" BRICK/STONE VENEER

WOOD ROOF TRUSSES FRAMING

STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES

SITE ADDRESS:

NEC -20 & UNIVERSITY HILLS BLVD, LANCaster, TEXAS

SITE ID:

042-3651

NEC

JAWA 24-0220

WASTE & VENT ISOMETRIC

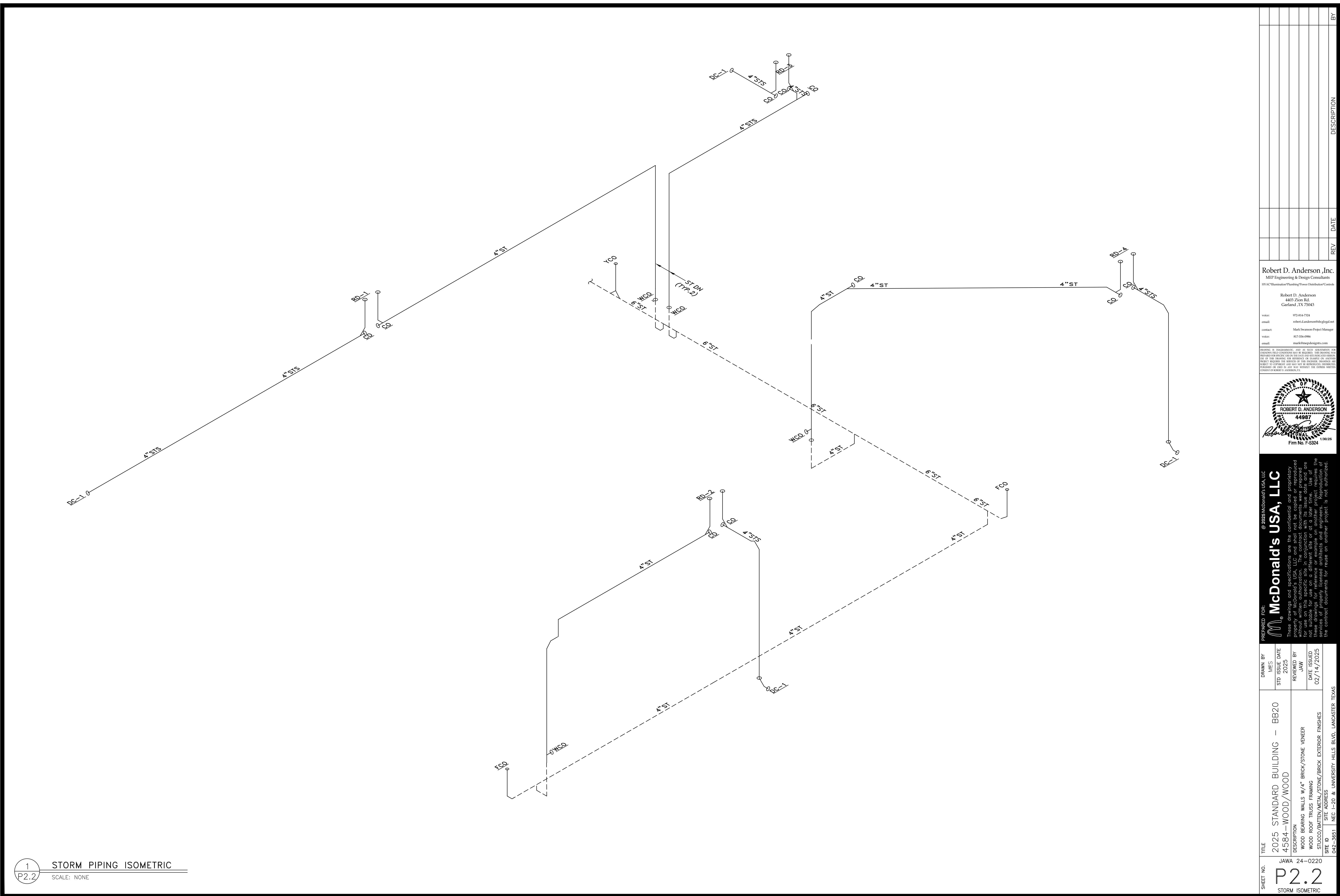
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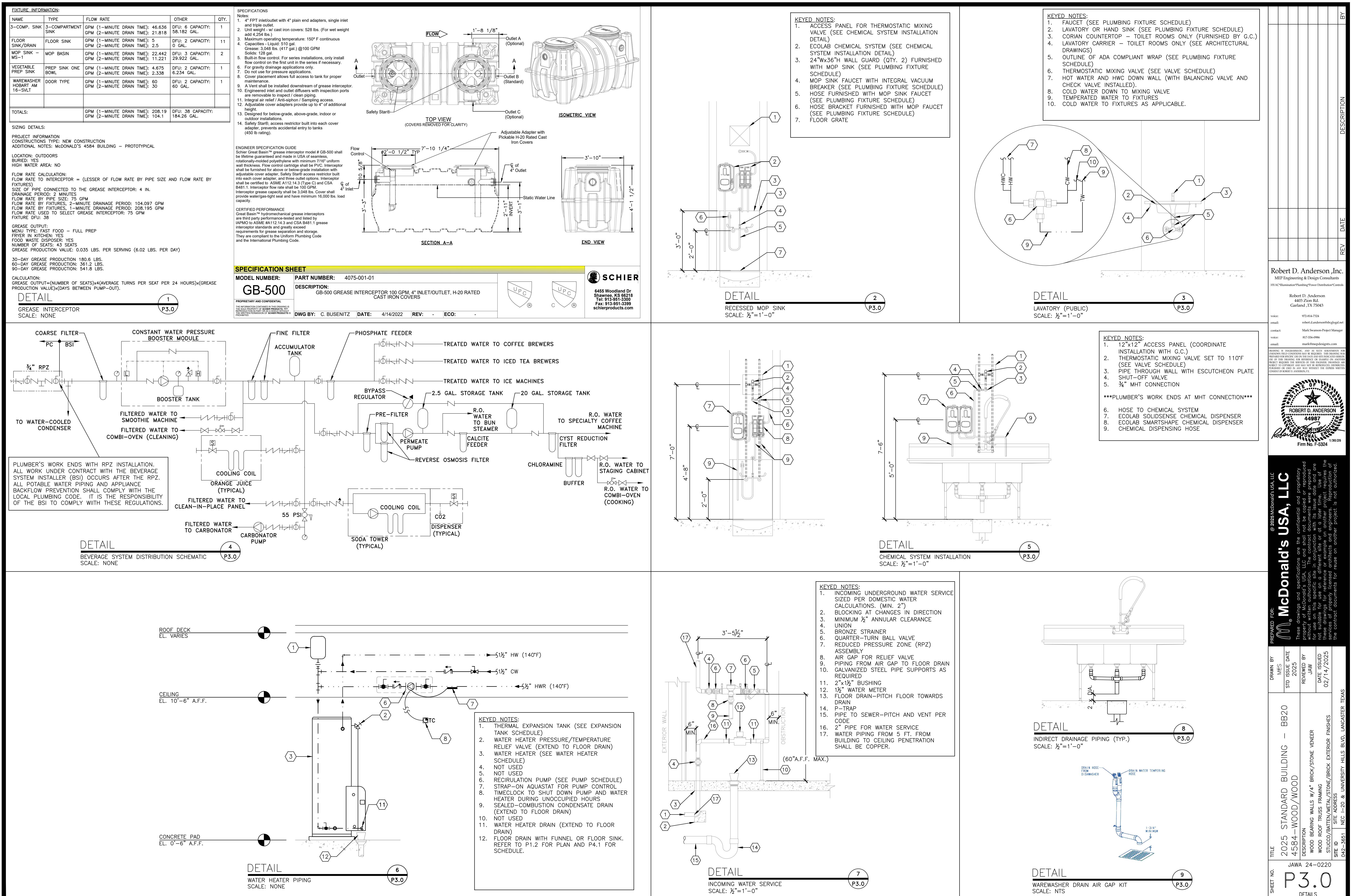
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WASTE & VENT ISOMETRIC

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GENERAL PLUMBING NOTES

GENERAL PLUMBING NOTES

PIPING
NOMINAL
DOMESTIC
TEMPERA
HOT WAT
STORM D

GENERAL:

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
2. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.
3. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION. ALL ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH THE MANUFACTURER'S SUBMITTAL INFORMATION.
4. ALL DIMENSIONAL INFORMATION IS AS FOLLOWS (UNLESS NOTED OTHERWISE):
 - A. UNDERGROUND PIPE IS TO FOUNDATION
 - B. OVERHEAD PIPE IS TO FINISHED WALL
 - C. ELEVATIONS ARE TO FINISHED FLOOR
5. ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE McDONALD'S PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE McDONALD'S PROJECT MANUAL SHALL CONTACT THE McDONALD'S AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE McDONALD'S SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.
6. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
7. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. WHERE POOR SOIL CONDITIONS EXIST OR WHERE SUBSTANTIAL SETTLEMENT OF EITHER THE PIPING, THE BUILDING OR ADJACENT WALKS, PLANTERS, ETC., MAY OCCUR, THE CONTRACTOR SHALL PROVIDE ADEQUATE UNDERSLAB STAINLESS STEEL PIPE HANGERS OR APPROVED OTHER SUPPORT.
9. ALL PIPE SLEEVES SHALL BE PROPERLY SEALED AND INSULATED TO PREVENT HEAT LOSS AND SEEPAGE.
10. ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.
11. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.

SANITARY AND VENT SYSTEMS:

1. THE BUILDING SANITARY PIPE SHALL BE LOCATED A MINIMUM OF 10 FT. FROM THE INCOMING WATER SERVICE. WHERE A 10 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
2. ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR CAST-IRON WHERE REQUIRED BY CODE.
3. ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH AS FOLLOWS:

PIPE SIZE	MIN. SLOPE
2½" OR LESS	¼" PER FT.
3" TO 6"	⅛" PER FT.
8" OR LARGER	⅛" PER FT. (MIN.)

4. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART. (UNLESS OTHERWISE DICTATED BY LOCAL CODES).
5. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
6. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
7. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
8. CLEANOUTS ON 6-IN. AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 IN. CLEANOUTS ON 8-IN. AND LARGER PIPE SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 36 IN.
9. ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
ABS	4 FT.	10 FT.
PVC (TYPE DWV)	4 FT.	10 FT.
CAST-IRON (<10 FT. PIPE SECTIONS)	5 FT.	15 FT.
CAST-IRON (10 FT. PIPE SECTIONS)	10 FT.	15 FT.

10. ALL PLUMBING FIXTURES SHALL BE VENTED AND THE MAXIMUM DISTANCE FROM THE FIXTURE TRAP TO THE VENT SHALL BE AS FOLLOWS:

TRAP SIZE	SLOPE	DISTANCE
1¼"	¼" PER FT.	2'-6"
1½"	¼" PER FT.	3'-6"
2"	¼" PER FT.	5'-0"
3"	⅛" PER FT.	6'-0"
4" & LARGER	⅛" PER FT.	10'-0"

11. ALL PLUMBING VENTS THROUGH THE ROOF SHALL TERMINATE A MINIMUM OF 12 INCHES ABOVE THE ROOF AND SHALL BE LOCATED A MINIMUM OF 8 FT. FROM ANY PARAPET WALL. WHERE A VENT TERMINATES WITHIN 8 FT. OF A PARAPET WALL, THE VENT SHALL TERMINATE A MINIMUM OF 6 INCHES ABOVE THE PARAPET.
12. ALL PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A PLUMBING VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.
13. ALL SIDE WALL VENT TERMINATIONS SHALL BE PROTECTED TO PREVENT BIRDS OR RODENTS FROM ENTERING OR BLOCKING THE VENT OPENING.
14. ALL FLOOR DRAINS THAT DO NOT SERVE EQUIPMENT SHALL BE PROTECTED AGAINST DRYING OUT EITHER THROUGH THE INSTALLATION OF A TRAP PRIMER, DEEP SEAL TRAP OR PROSET TRAP GUARD. ALL TRAPS SHALL BE FILLED WITH AN INITIAL LAYER OF COOKING OIL.
15. ALL APPLIANCES SHALL DRAIN TO AN APPROVED SANITARY WASTE RECEPTOR (FLOOR SINK OR FLOOR DRAIN WITH FUNNEL). INDIRECT DRAINAGE FROM AN APPLIANCE SHALL MAINTAIN AN AIR GAP BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR. THE MINIMUM DISTANCE BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR SHALL BE TWICE THE DIAMETER OF THE APPLIANCE DRAIN PIPE.

GREASE INTERCEPTORS:

1. SEE SITE PLAN FOR THE SIZE AND LOCATION OF THE GREASE INTERCEPTOR.
2. THE GREASE INTERCEPTOR SHALL BE INSTALLED IN A LOCATION THAT IS ACCESSIBLE FOR PUMPING.
3. THE GREASE INTERCEPTOR SHALL BE CONSTRUCTED OF FIBERGLASS OR ROTATIONALLY-MOLDED POLYETHYLENE. GREASE INTERCEPTOR CONSTRUCTION SHALL CONFORM TO ALL LOCAL CODES. CONCRETE GREASE INTERCEPTORS ARE NOT PERMITTED UNLESS REQUIRED BY THE LOCAL AHJ.
4. GREASE INTERCEPTORS SHALL BE GRAVITY OR HYDROMECHANICAL TYPE, SIZED FOR THE APPLICATION LISTED.

5. THE GREASE INTERCEPTOR SHALL BE VENTED.

6. ACCESS TO THE GREASE INTERCEPTOR SHALL BE PROVIDED WITH TWO (2) 24-IN. MANHOLES. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE A MINIMUM 16,000 LBS. LOAD CAPACITY. ALL SURFACE WATER MUST DRAIN AWAY FROM MANHOLES.
7. PIPING INLET AND OUTLET SIDES SHALL BE CLEARLY LABELED ON THE TOP OF THE GREASE INTERCEPTOR TO INSURE PROPER INSTALLATION.

DOMESTIC SUPPLY SYSTEMS:

1. THE INCOMING WATER SERVICE PIPE SHALL BE LOCATED A MINIMUM OF 10 FT. FROM THE EXITING SANITARY PIPE. WHERE A 10 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
2. ALL UNDERGROUND SITE PLUMBING SHALL CONFORM TO NSF 61, SHALL BE TYPE K COPPER TUBING OR COPPER PIPE, POLYETHYLENE (PE), PEX OR CPVC. IF CPVC IS USED, FOAM INSULATION SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION TO ACCOUNT FOR EXPANSION AND CONTRACTION.
3. IF PEX PIPING IS USED, ALL MAINS SHALL BE UPSIZED BY 0.5" DIAMETER.
4. INCOMING WATER SERVICE PRESSURE SHOULD BE BETWEEN 50 AND 55 PSI STATIC. WHERE WATER PRESSURE SERVICE EXCEEDS 80 PSI STATIC, AN APPROVED WATER-PRESSURE REDUCING VALVE WITH STRAINER CONFORMING TO ASSE 1003 SHALL BE INSTALLED. WHERE INCOMING WATER PRESSURE IS BELOW 50 PSI STATIC, A PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED.
5. IF THE RESTAURANT HAS A COMBINED WATER AND FIRE SPRINKLER SERVICE, THE INCOMING WATER SERVICE SHALL BE SIZED BASED ON THE FIRE SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS.
6. PROVIDE A MINIMUM ½" ANNULAR CLEARANCE AROUND ALL PIPE SLAB PENETRATIONS.
7. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INCOMING SERVICE WHERE REQUIRED BY CODE. (MIN. 60" A.F.F.)
8. AN EXPANSION TANK SHALL BE INSTALLED ON THE COLD WATER LINE INLET TO THE WATER HEATER. SEE EXPANSION TANK SCHEDULE.
9. ALL WATER SUPPLY PIPE WITHIN 5 FT. OF THE BUILDING AND INSIDE THE BUILDING SHALL COMPLY WITH NSF 61 AND SHALL BE TYPE L COPPER TUBING, COPPER PIPE, PEX OR CPVC PIPE.
10. CPVC PIPE SHALL BE FLOWGUARD GOLD OR FLOWGUARD BENDABLE AS MANUFACTURED BY LUBRIZOL.
11. CPVC PIPE SHALL BE CONNECTED WITH FLOWGUARD GOLD LOW-VOC SOLVENT CEMENT AS MANUFACTURED BY IPS WELD-ON OR OATEY.
12. ALL CPVC PIPE SHALL BE INSULATED TO PREVENT EXPOSURE TO GREASE.
13. ALL SUSPENDED PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
COPPER PIPE	12 FT.	10 FT.
COPPER TUBING $\leq 1\frac{1}{4}"$	6 FT.	10 FT.
COPPER TUBING $> 1\frac{1}{2}"$	10 FT.	10 FT.
CPVC $\leq 1"$	3 FT.	10 FT.
CPVC $\geq 1\frac{1}{4}"$	4 FT.	10 FT.
PEX $\leq 1"$	3 FT.	10 FT.
PEX $\geq 1\frac{1}{4}"$	4 FT.	10 FT.

14. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INLET TO THE WATER FILTRATION SYSTEM. ALL PIPING DOWNSTREAM OF THE RPZ SHALL BE COPPER OR CROSS-LINKED POLYETHYLENE (PEX).
15. ALL DEVICES, APPLIANCES, AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION (EX.: SODA MACHINE, COFFEE MACHINE, BEVERAGE DISPENSERS, ETC.) SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM. ALL BACKFLOW PREVENTION DEVICES SHALL BE ASSE LISTED AND APPROVED FOR THE DEVICE OR APPLIANCE THEY SERVE.
16. ALL WATER SUPPLY LINES SHALL BE PROVIDED WITH A QUARTER-TURN SHUT-OFF VALVE BEFORE FINAL CONNECTION TO EQUIPMENT.
17. QUARTER-TURN SHUT-OFF VALVES SHALL BE INSTALLED UPSTREAM OF ANY INLINE BACKFLOW PREVENTION DEVICE.
18. ALL VALVES AND BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WITH FITTINGS THAT FACILITATE REMOVAL IN CASE OF FAILURE.
19. ALL OVERHEAD WATER LINES SHALL BE INSULATED PER SCHEDULE THIS SHEET WITH EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7.
20. PRIOR TO BUILDING TURNOVER, THE DOMESTIC WATER SUPPLY SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND DISINFECTED. DISINFECTION SHALL BE DONE IN ACCORDANCE WITH THE LOCAL HEALTH CODE, PLUMBING CODE OR IN ACCORDANCE WITH AWWA C651 OR AWWA C652.

STORM DRAINAGE SYSTEMS:

1. ALL ROOF DRAINS SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODES AND SHALL CONFORM TO ASME A112.21.2M OR A112.3.1.
2. ALL STORM DRAINAGE PIPING SHALL BE ABS, PVC TYPE DWV OR CAST-IRON WHERE REQUIRED BY CODE.
3. ALL SUSPENDED STORM DRAINAGE PIPE SUPPORT REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
4. ALL HORIZONTAL STORM DRAINAGE PIPE PITCH REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
5. ALL HORIZONTAL STORM DRAINAGE PIPE SHALL BE INSULATED WITH 1" THICK EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7 TO PROTECT AGAINST CONDENSATION.
6. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.
7. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
8. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
9. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
10. ROOF DRAINS AND OVERFLOW ROOF DRAINS SHALL BE PIPED INDEPENDENTLY. OVERFLOW ROOF DRAINS SHALL NOT BE CONNECTED TO THE PRIMARY ROOF DRAINAGE SYSTEM.

11. MINIMUM CONDENSATION LATEST ED

UM PIPING INSULATION THICKNESS HEATING AND HOT-WATER SYSTEMS (STEAM, STEAM
ENSATE, HOT-WATER HEATING AND DOMESTIC WATER SYSTEMS). PLEASE REFER TO THE
T EDITION OF IECC FOR MINIMUM PIPE INSULATION THICKNESS (TABLE C403.12.3)

NG	MINIMUM INSULATION THICKNESS (IN INCHES) PER NOMINAL PIPE OR TUBE SIZE				
NOMINAL PIPE SIZE	<1	1 TO 1.5	1.5 TO <4	4 TO <8	≥8
DOMESTIC COLD WATER (40°F TO 60°F)	0.5	0.5	1.0	1.0	1.0
DOMESTIC HOT WATER (105°F TO 140°F)	1.0	1.0	1.5	1.5	1.5
WATER (141°F TO 200°F)	1.5	1.5	2.0	2.0	2.0
ARM DRAIN (HORIZONTAL)	—	—	1.0	1.0	1.0

LEGEND		ABBREVIATIONS	
— — — — —	COLD WATER PIPING	ACM	AREA CONSTRUCTION MANAGER
— — — — —	TEMPERED WATER PIPING (110°F)	AVB	ATMOSPHERIC VACUUM BREAKER
— — — — —	HOT WATER PIPING (140°F)	BSI	BEVERAGE SYSTEM INSTALLER
— — — — —	RECIRCULATED HOT WATER PIPING	CO	CLEAN-OUT
— — — — —	OVERHEAD LINES (BY P.C.)	DC	DOWNSPOUT COVER
— — SAN — — —	UNDERGROUND SANITARY PIPING	DFU	DRAINAGE FIXTURE UNIT(S)
— — GW — — —	UNDERGROUND GREASE WASTE PIPING	EC	ELECTRICAL CONTRACTOR
— — — — —	VENT PIPING	FAC	FIRE ALARM CONTRACTOR
— — STS — — —	ABOVE GROUND STORM PIPING	FCO	FLOOR CLEAN-OUT
— — — STS — — —	UNDERGROUND STORM PIPING	FD	FLOOR DRAIN
♀	HOSE BIBB	FPC	FIRE PROTECTION CONTRACTOR
↗	CHECK VALVE	FS	FLOOR SINK
▣	BALL VALVE	GC	GENERAL CONTRACTOR
☒	THERMOSTATIC MIXING VALVE	GI	GREASE INTERCEPTOR
□	FLOOR DRAIN	GPF	GALLONS PER FLUSH
□	CLEAN-OUT (FLOOR OR YARD)	GPM	GALLONS PER MINUTE
🕒	FLOOR SINK	GW	GREASE WASTE
○	PRESSURE GUAGE	HS	HAND SINK
L	LOW PRESSURE SWITCH	I.P.S.	IRON PIPE SIZE (ALSO NPS)
H	HIGH PRESSURE SWITCH	KEI	KITCHEN EQUIPMENT INSTALLER
S	SOLENOID VALVE	KES	KITCHEN EQUIPMENT SUPPLIER
✗	THREE-WAY VALVE	LAV	LAVATORY
▷	PRESSURE REGULATOR	MC	MECHANICAL CONTRACTOR
NN	DUAL CHECK VALVE OR RPZ	MHT	MALE HOSE THREADS
NN↑	DUAL CHECK VALVE WITH ATMOSPHERIC VENT	MS	MOP SINK
H	STRAINER	NPS	NATIONAL PIPE THREAD STANDARD
↑	RELIEF VENT	NPT	NATIONAL PIPE THREAD TAPERED
●	WATER-HAMMER ARRESTER	O/O	OWNER/OPERATOR
		OH	OVERHEAD
		P	PUMP
		PC	PLUMBING CONTRACTOR
		RC	REFRIGERATION CONTRACTOR
		RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
		SS	SANITARY SEWER
		ST STS	STORM SEWER (PRIMARY) STORM SEWER (SECONDARY)
		SVB	ANTI-SIPHON, SPILL RESISTANT VACUUM BREAKER
		TAB	TEST AND BALANCE CONTRACTOR
		UG	UNDERGROUND
		UR	URINAL
		V	VENT
		WC	WATER CLOSET
		WCO	WALL CLEAN-OUT
		WSFU	WATER SUPPLY FIXTURE UNIT(S)
		YC	YARD CLEAN-OUT
		TITLE	2025 STANDARD BUILDING – BB20
		SHEET NO.	4584-WOOD/WOOD
		JAV GEN	
		PREPARED BY	McDonald's USA, LLC
		STD ISSUE DATE	2025
		MES	
		PREPARED FOR:	
		DRAWN BY	
		STD	
		ISSUE DATE	
		2025	
		2025	
		STANDARD	
		BUILDING	
		–	
		BB20	

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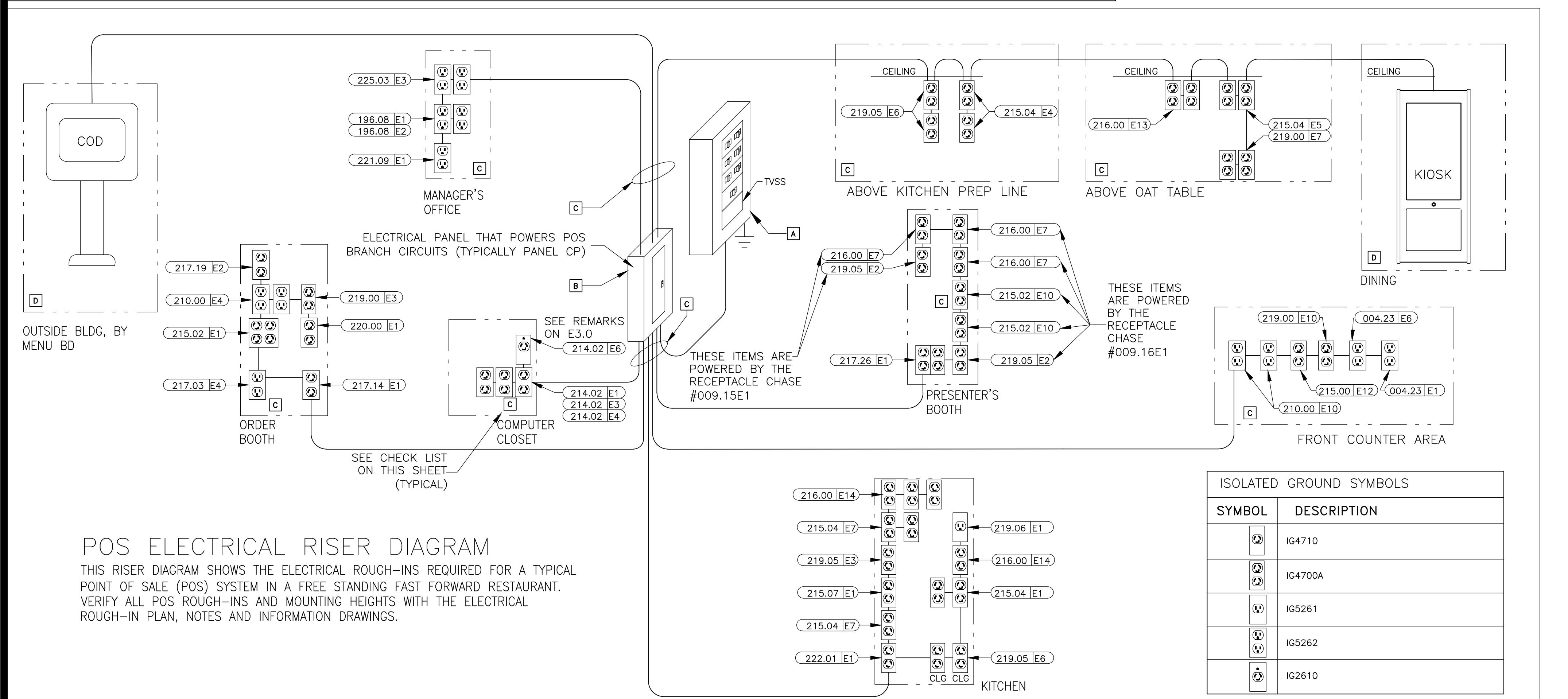
REVIEWED BY JAW	DATE ISSUED 02/14/2025
EEER	FINISHES

WOOD / WOOD
ON
EARING WALLS W/4" BRICK/STONE VEN
COOF TRUSS FRAMING
/BATTEN/METAL/STONE/BRICK EXTERIOR

DESCRIPTION	WOOD B.	WOOD R.	STUCCO,
WA 24-0220			
4	0	GERAL NOTES	

COORDINATION SCHEDULE					EXPANSION TANK SCHEDULE					WATER HEATER SCHEDULE								
GENERAL REQUIREMENTS	FURNISH	INSTALL	FINAL CONNECTION	NOTES	TAG	MANUFACTURER	MODEL	TOTAL VOL.	CONNECTION	ACCESSORIES	TAG	MANUFACTURER	MODEL	SIZE GAL.	HEATING KW	RECOV. GPH	ELECTRICAL VOLTS Ø Hz F.L.A.	
MECHANICAL PERMIT	MC			1-3	ET-1	AMTROL	ST-12	4.4 GAL.	½"	-	WH-1	RHEM-RUDD	ES120-54-G	120	ELEC 54	221	208 3 60 150	
HOT WORK (WELDING) PERMIT (IF APPLICABLE)	MC			1-3														
REFRIGERATION PERMIT (IF APPLICABLE)	KES			1-3														
PLUMBING PERMIT	PC			1-3														
ELECTRICAL PERMIT	EC			1-3														
FIRE SPRINKLER PERMIT (IF APPLICABLE)	FPC			1-3														
PIPE ALARM PERMIT (IF APPLICABLE)	FAC			1-3														
CONTRACTOR COORDINATION REQUIREMENTS					NOTES:					NOTES:					NOTES:			
HEATING & AIR-CONDITIONING					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.					1. SEE DETAIL 6 ON DRAWING P3.0								
ROOFTOP UNITS, INTAKE AND RELIEF	MCD CP	MC			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.													
ROOF CURBS	MCD CP	MC			3. FOR ANY WORK NOT CLARIFIED IN THIS SCHEDULE OR IN THE NOTES AND SPECIFICATIONS, PLEASE CONSULT THE McDONALD'S CONSTRUCTION MANAGER FOR SCOPE OF WORK.					1. SEE ELECTRICAL DRAWINGS FOR TIMECLOCK WIRING								
GAS PIPING AND GAS PIPE KIT	PC	PC	PC		4. ALL ROOFTOP UNIT EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND THE KITCHEN EQUIPMENT SUPPLIER SHALL BE ON SITE AT THE SAME TIME FOR A SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED BETWEEN THE CONSTRUCTION MANAGER, MECHANICAL CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER.					2. DESIGN: 2 GPM, 7 FT. HEAD								
CONTROLS WIRING	MC	EC	EC		5. ALL ROOFTOP UNITS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY EQUIPMENT. THE INSTALLATION OF STANDARD EFFICIENCY ROOFTOP UNITS IS PROHIBITED. PLEASE REFER TO THE LATEST EDITION OF IEC FOR HVAC EQUIPMENT PERFORMANCE REQUIREMENTS.					3. SEE DETAIL 6 ON DRAWING P3.0								
POWER WIRING	EC	EC	EC		6. ALL KITCHEN EQUIPMENT REQUIRING EXHAUST SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND THE ENGINEER-OF-RECORD.													
CONDENSATE TRAP	MC	PC			7. WHERE GYPSUM BOARD CEILINGS ARE INSTALLED, THE MECHANICAL CONTRACTOR SHALL SUPPLY DRYWALL MOUNTING FRAMES FOR LAY-IN TYPE DIFFUSERS.													
CONDENSATE PIPING (IF APPLICABLE)	PC	PC			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.													
DUCT-MOUNTED SMOKE DETECTOR	MC	MC	EC		9. ALL WORK ON P1.0 & P1.2 DRAWING(S) SHALL BE BY THE PLUMBING CONTRACTOR.													
GENERAL EXHAUST SYSTEMS					10. THE BEVERAGE SYSTEM INSTALLER FURNISHES, RUNS AND CONNECTS ALL FLEXIBLE WATER AND SYRUP LINES FOR ALL Affected EQUIPMENT INCLUDING THE FOLLOWING:													
EXHAUST FANS	MCD CP	MC	EC		A. HOT CHOCOLATE													
ROOF CURBS	MCD CP	MC	EC		B. COFFEE BREWER													
CONTROLS (WHERE APPLICABLE)	MC	EC	EC		C. ICE MACHINE													
POWER WIRING	EC	EC	EC		D. O.J.													
DUCTWORK AND ACCESSORIES					E. SODA TOWERS													
GALVANIZED SHEET METAL DUCTWORK	MC	MC			11. NOT USED.													
EXTERNAL INSULATION	MC	MC			12. THE CONSTRUCTION MANAGER, PLUMBING CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE WHICH SOILED DISHWASHER (3-COMPARTMENT SINK) IS BEING INSTALLED IN THE RESTAURANT.													
INTERNAL INSULATION (IF APPLICABLE)	MC	MC			13. NOT USED.													
WEATHERPROOFING (IF APPLICABLE)	MC	MC			14. NOT USED.													
SPIN-IN COLLARS	MC	MC			15. ALL FIRE PROTECTION DRAWINGS CONTAINED WITHIN THIS SET ARE STRICTLY FOR REFERENCE ONLY. FIRE SPRINKLER DRAWINGS SHALL BE DESIGNED AND PERMITTED BY A FIRE PROTECTION CONTRACTOR.													
FLEXIBLE DUCTWORK	MC	MC			16. ALL R-102 WET CHEMICAL FIRE SUPPRESSION SYSTEMS FOR TYPE I HOODS SHALL BE DESIGNED AND INSTALLED BY A LOCAL ANSUL AGENT. THE USE OF DRY CHEMICAL SYSTEMS IS PROHIBITED. THE LOCAL ANSUL AGENT CONTRACT IS HANDLED THROUGH THE KITCHEN EQUIPMENT SUPPLIER.													
VOLUME/BALANCING DAMPERS	MC	MC			17. ALL ROOFTOP UNITS AND EXHAUST FANS ARE SUPPLIED WITH A FACTORY-INSTALLED DISCONNECT SWITCH.													
FIRE DAMPERS (IF APPLICABLE)	MC	MC			18. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR REMOTE CONDENSING UNITS.													
FIRESTOPPING (IF APPLICABLE)	MC	MC			19. ALL ELECTRICAL CONDUITS FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.													
AIR DEVICES AND ACCESSORIES	MC	MC			20. WALK-IN COOLER AND WALK-IN FREEZER REFRIGERATION SYSTEMS SHALL MEET THE PERFORMANCE REQUIREMENTS OUTLINED IN THE LATEST EDITION OF IEC. MINIMUM ANNUAL WALK-IN ENERGY FACTOR (AWEF) PROVIDED BY EQUIPMENT MANUFACTURER IS DETERMINED IN ACCORDANCE WITH AHRI 1250.													
KITCHEN EXHAUST SYSTEMS					21. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.													
MCDONALD'S BACKSHLF EXHAUST HOODS	KES	KEI			22. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.													
CANOPY EXHAUST HOODS (IF APPLICABLE)	KES	KEI			23. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.													
BLACK IRON DUCTWORK	KES	KEI			24. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.													
STAINLESS STEEL DUCTWORK (IF APPLICABLE)	KES	KEI			25. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.													
ALUMINUM DUCTWORK (IF APPLICABLE)	KES	KEI			26. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.													
UL LISTED DUCT WRAP	MC	MC			27. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.													
FIRE-RATED DUCT ENCLOSURE (IF APPLICABLE)	GC	GC			28. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.													
EXHAUST FANS	MCD CP	MC			29. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.													
ROOF CURBS	MCD CP	MC																
CURB EXTENSIONS	MC	MC																
CONTROLS (WHERE APPLICABLE)	EC	EC	EC															
POWER WIRING	EC	EC	EC															
FIRE SUPPRESSION SYSTEM	KES	KES	KES															
KITCHEN EQUIPMENT																		
COOLER/FREEZER	KES	GC																
EVAPORATOR COILS	KES	MC																
CONDENSATE PIPING	PC	PC	PC															
REMOTE CONDENSING UNIT (MAC)	KES	MC																
POWER WIRING	EC	EC	EC															
REFRIGERANT PIPING	KES	MC																
CONTROL WIRING	EC	EC	EC															
PIPE PORTALS	MC	MC																
ICE MACHINES	KES	KEI																
WATER SUPPLY PIPING	KES	KEI																
REMOTE CONDENSING UNITS	KES	MC																
ROOF CURBS	MC	MC																
REFRIGERANT PIPING	KES	MC																
POWER WIRING	EC	EC																
CONTROL WIRING	KES	EC																
PIPE PORTALS	MC	MC		</td														

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.



LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION

GENERAL/MATERIALS

1. THE GC OR EC SHALL FURNISH AND INSTALL A COMPLETE LOW VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZING CADDY-ERICO TYPE CAT-32 J-HOOK SUPPORTS (2-INCH DIAMETER LOOP MINIMUM). ALL J-HOOKS SHALL;
 - HAVE A MINIMUM BEARING SURFACE OF $1\frac{3}{8}$ ",
 - HAVE FLARED EDGES TO PREVENT DAMAGE TO HIGH PERFORMANCE CABLES,
 - HAVE AN ELECTRO-GALVANIZED FINISH,
 - HAVE $\frac{3}{8}$ " WIDE CABLE RETAINING STRAPS,
 - BE UL LISTED AND LABELED,
 - BEAR THE UL SYMBOL MARKING ON THE PART FOR IDENTIFICATION
 - BE INSTALLED PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
 2. THE ENTIRE INSTALLATION SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), NEC SECTION 800, BICSI STANDARDS 568 & 569, ALL APPLICABLE NATIONAL, STATE, LOCAL, AND SAFETY CODES, AND McDONALD'S SPECIFICATIONS.

INSTALLATION

1. LOW VOLTAGE J-HOOK CABLE PATHWAY (FOR POS CABLING SYSTEM) SHALL BE PROVIDED FROM THE MANAGERS OFFICE (OR COMPUTER CLOSET) DATA CONDUIT STUB-UP LOCATION TO THE FOLLOWING DATA CONDUIT STUB-UP LOCATIONS (AS APPLICABLE):
 - FRONT COUNTER.
 - PRESENTERS BOOTH.
 - CASHIERS BOOTH.
THIRD DRIVE THRU WINDOW(IF PRESENT)

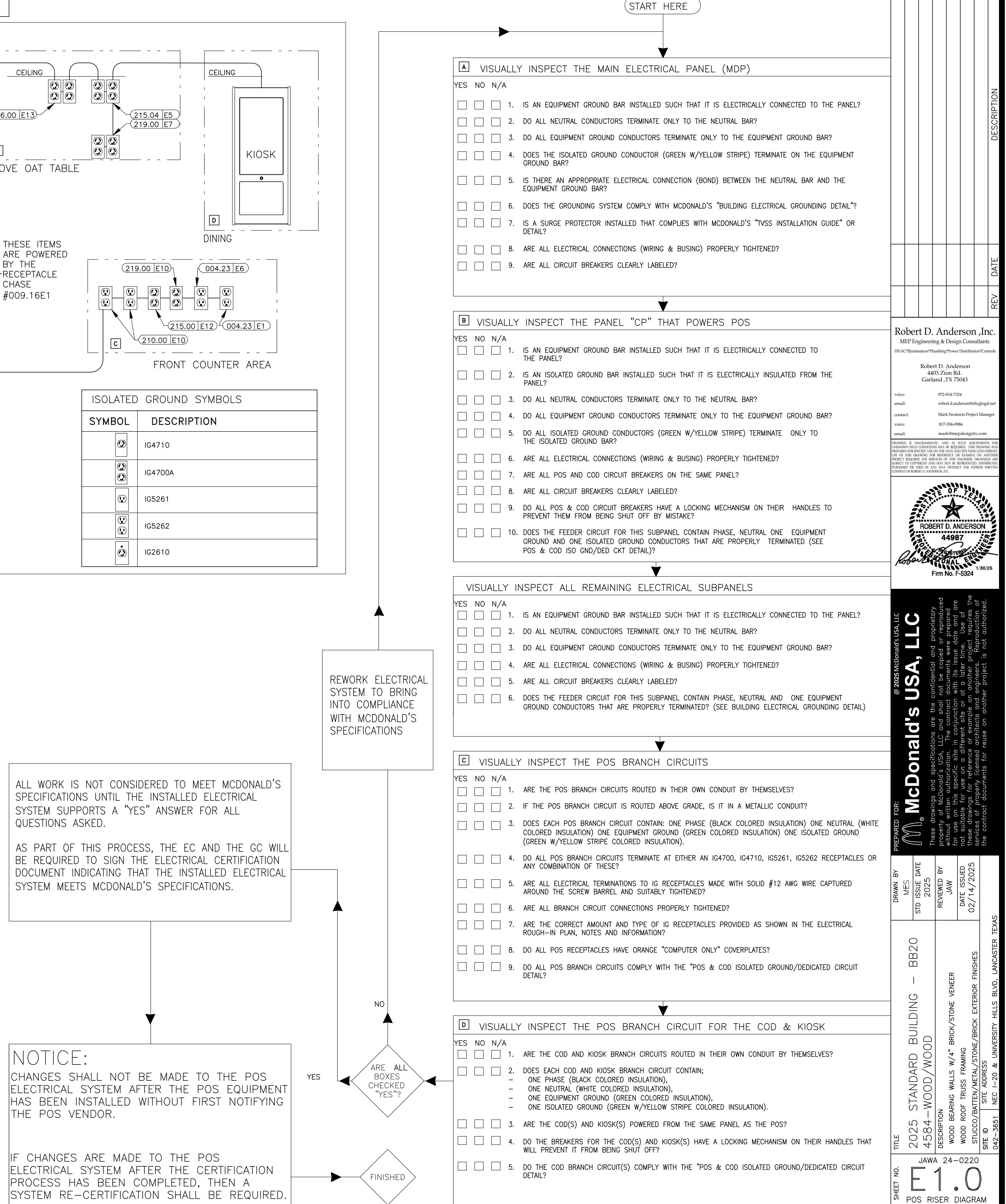
CABLE SUPPORTS SHALL BE PROVIDED WITHIN 24 INCHES OF THESE STUB-UP LOCATIONS. ALL STUB-UP CONDUITS SHALL BE PROVIDED WITH AN INSULATED BUSHING TO PROTECT CABLES DURING INSTALLATION.

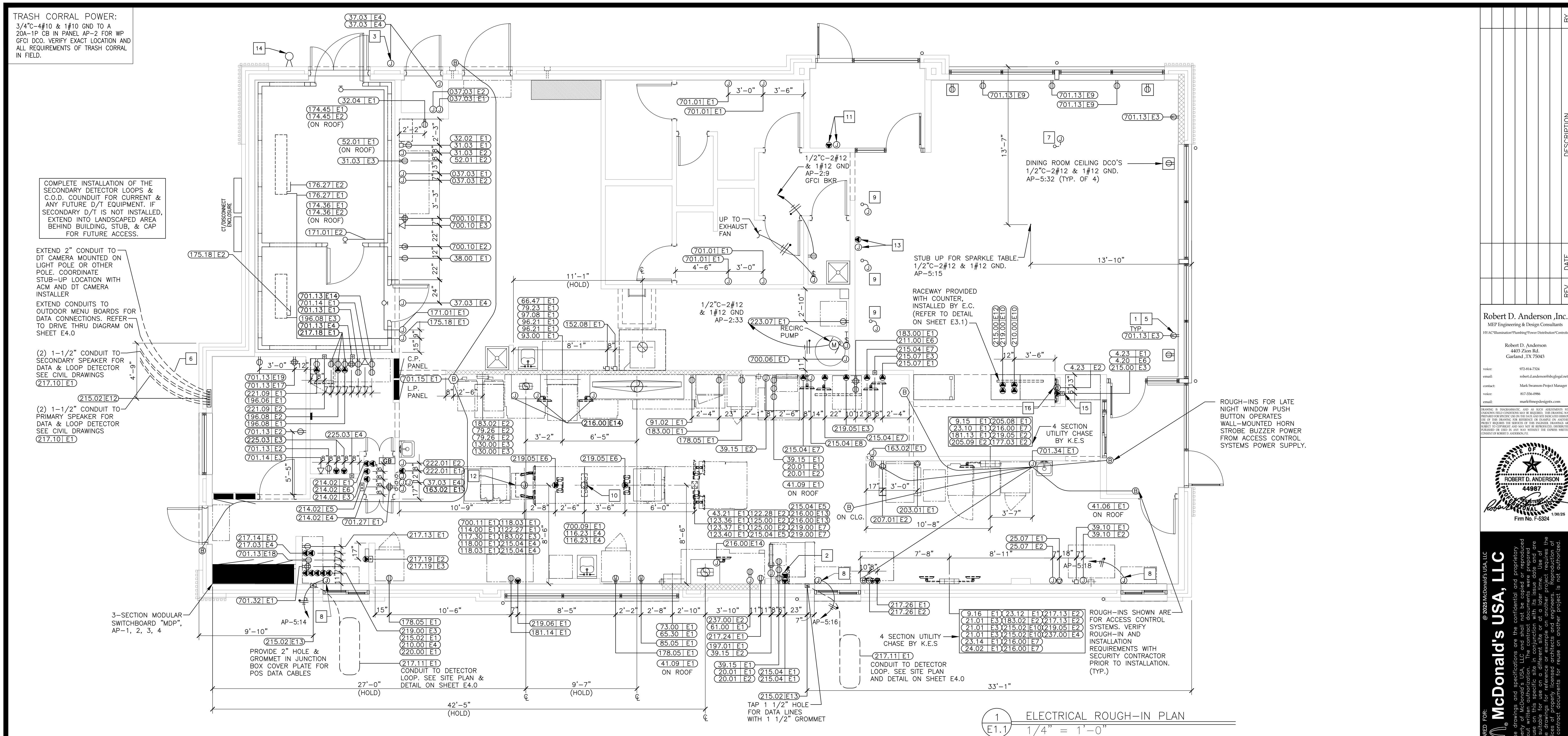
ELECTRICAL POS CERTIFICATION

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:

ELECTRICAL CONTRACTOR:





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

ART BOUCHU IN N

- 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 $3\frac{5}{32}$ " X $3\frac{5}{32}$ " X $3\frac{1}{2}$ "D JUNCTION BOX AT DOOR FOR INSTALLATION OF DOOR ALARM UNIT. STUB $1\frac{1}{2}$ "C ABOVE CEILING FROM JUNCTION BOX. PROVIDE $\frac{1}{2}$ "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. REQUIRE $1\frac{1}{2}$ "C X $1\frac{1}{2}$ "C FOR REMOVAL OF CEIL. TILES.

GENERAL NOTE

- 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 NOT

- 1 TAMPER RESISTANT GFCI DUPLEX RECEPTACLE IN PUBLIC AREAS. EC SHALL PROVIDE HUBBELL GFTRST* ("*": AL=ALMOND, BK=BLACK, --=BROWN, GY=GRAY, I=IVORY, LA=LIGHT ALMOND, R=RED, W=WHITE). SPECIFIED RECEPTACLE BECOMES DE-ENERGIZED UPON FAILURE OF GFCI DEVICE. NO SUBSTITUTIONS.(TYPICAL)
 - 2 SEE POS ELECTRICAL RISER DIAGRAM ON SHEET E1.0. (TYPICAL)

KEY NOTES

- 3 EC TO FURNISH AND INSTALL A FLUSH MOUNTED JUNCTION BOX WITH WEATHERPROOF GASKET AND OUTDOOR WEATHERPROOF, 24 VOLT CO2 HORN/STROBE UNIT COMPATIBLE WITH CO2 ALARM SYSTEM – EDWARDS GENESIS WGAVRN OR APPROVED EQUAL. STROBE SHALL HAVE AN AMBER COVER AND MEET ALL LOCAL REGULATORY REQUIREMENTS FOR SPECIFICATIONS AND INSTALLATION. PROVIDE A $\frac{3}{4}$ " CONDUIT STUB-IN INTO BUILDING WITH THERMOPLASTIC BUSHING FROM WEATHERPROOF BACKBOX. PROVIDE FINAL WIRING TERMINATIONS AT HORN/STROBE UNIT AND THEN PROVIDE 36 INCHES OF PIGTAIL WIRING FROM HORN/STROBE INTO THE BUILDING AND NEATLY COIL FOR FINAL CONNECTION. FINAL WIRING CONNECTION FROM OUTDOOR HORN/STROBE PIGTAILS TO THE CO2 ALARM

4 NOT USED

- 5 COORDINATE LOCATION OF RECEPTACLES SO THAT RECEPTACLES ARE LOCATED ON FULL HEIGHT WALLS PER THE DECOR PLAN. STUB UP AND CIRCUIT IN HALF WALL FOR RECEPTACLES NOT ON FULL HEIGHT WALLS, CONFIRM FINAL LOCATIONS WITH DECOR DRAWINGS PRIOR TO ROUGH-IN.
 - 6 IF MOUNTED TO A LIGHTING POLE, DT CAMERA SHALL ONLY BE INSTALLED ON A POLE WITH MAXIMUM OF (2) LIGHTING HEADS. PROVIDE ISOLATION OF DT CAMERA MOUNTING HARDWARE AND POLE TO PREVENT BI-METALLIC OR GALVANIC

CORROSION.

- 7 E.C. TO PROVIDE AN ALLOWANCE IN BID TO PROVIDE TWO(2) FLEXIBLE POWER CONNECTIONS FOR POWER TO FURNITURE/ FAMILY EXPERIENCE ELEMENTS AS PART OF THE DECOR PACKAGE. E.C. SHALL VERIFY EXACT LOCATIONS IN FIELD AND WITH DECOR DRAWINGS. PROVIDE ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE AND FULLY NEC CODE COMPLIANT INSTALLATION. ALL COMPONENTS SHALL BE FED FROM A GFCI TYPE CIRCUIT BREAKER AND BRANCH CIRCUIT SHALL CONTAIN TWO PATHS OF GROUNDING (CONDUIT BODY AND AN INSULATED GROUNDING CONDUCTOR) TO COMPLY WITH McDONALD'S GROUNDING STANDARDS.

EX. NOTES

- PROVIDE POWER FOR CONNECTION TO SELF ORDER KIOSKS. COORDINATE EXACT LOCATION OF KIOSKS WITH DECOR DRAWINGS. PROVIDE 2#12, 1#12 GRD., & 1#12 ISOLATED GROUND ON A 20A DEDICATED CIRCUIT FED FROM THE CP PANEL FOR EVERY KIOSK.

- D** 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.

- 1** PROVIDE POWER AND DATA ROUGH-INS FOR DIGITAL MERCHANDISER. EXTEND CIRCUIT TO THIS LOCATION FROM FRONT COUNTER MERCHANDISER IN SERVICE AREA.

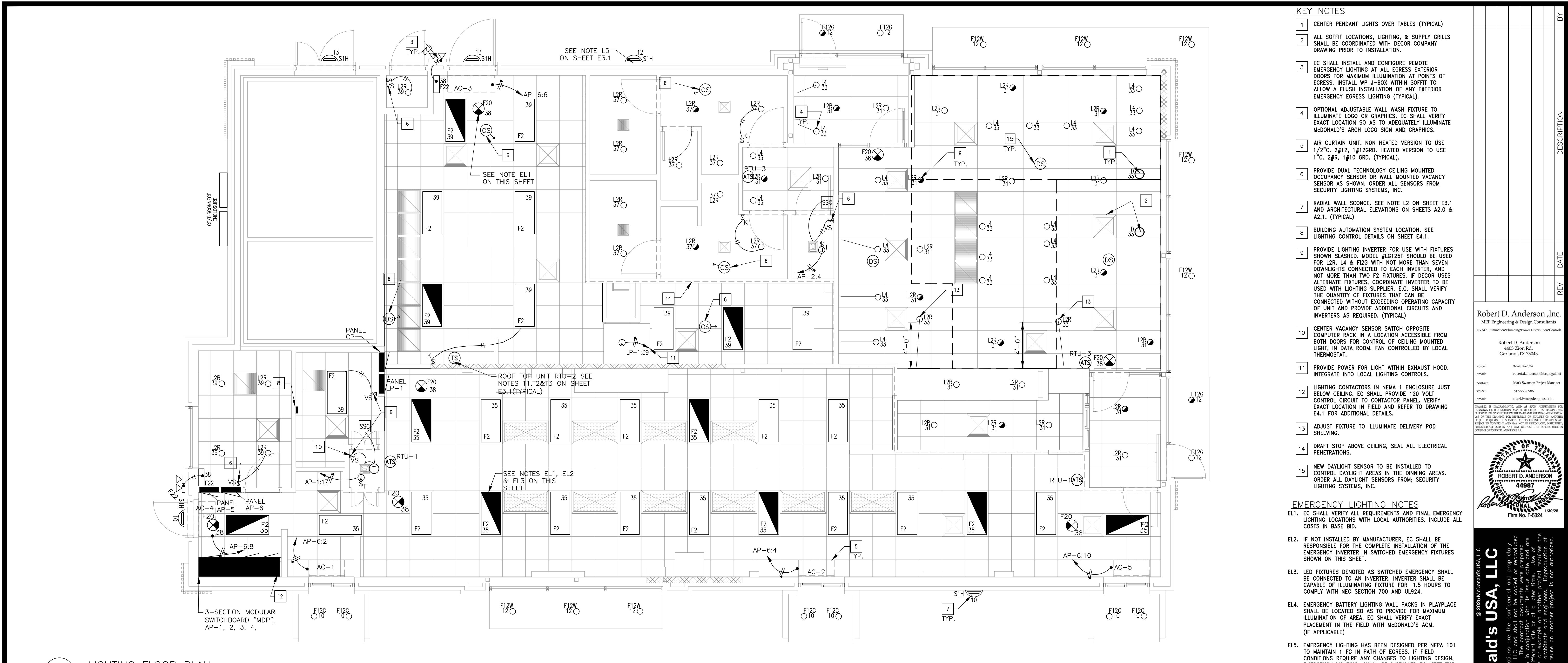
- [2] EC TO INSTALL DROP CORDS JUSTIFIED TO THE DRIVE THRU SIDE OF THE BUILDING.**

- 3 PROVIDE POWER AND DATA ROUGH-INS FOR CASH HANDLERS REFER TO 4/E3.1
FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.

4 AT&T TO PROVIDE #8 GRD CONDUCTOR FROM BUILDING EXTERIOR WIRELESS
ACCESS POINT TO ABOVE INTERIOR CEILING EG TO EXTEND CONDUCTOR TO BUILDING

- 5** CONTRACTOR TO PUNCH HOLES IN SERVICE POD FOR CABLE AND CONDUIT
ROUTING. UTILIZE DUCKINGS PROVIDED WITH SERVICE POD TO PROTECT CABLES.

- 6 REFER TO DETAIL ON A3.1 FOR DIMENSIONS OF DIGITAL MERCHANDISER ROUGH-INS.



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

KEY

- DENOTES FIXTURE TYPE
- DENOTES CIRCUIT NUMBER
- LIGHTING FIXTURES SHOWN HALF HATCHED SHALL BE CONTROLLED VIA TIME CLOCK AS SWITCHED EMERGENCY FIXTURES SO THE FIXTURE IS TURNED ON UPON LOSS OF POWER. SEE NOTE EL3 ON THIS SHEET. COORDINATE LOCATION WITH DECOR.
- LIGHTING FIXTURES SHOWN WITH ARROW DENOTES GENERAL DIRECTION TO AIM ADJUSTABLE FIXTURES. VERIFY IN FIELD.

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

McDONALD'S SITE SIGNAGE:

EC SHALL PROVIDE:
ELECTRICAL CONTRACTOR SHALL COORDINATE POWER REQUIRED FOR ROAD SIGN. MOST SIGNS REQUIRE (1) 20 AMP 120V CIRCUIT. IF USED A 90-200 SIGN REQUIRES (4) 20 AMP 120V CIRCUITS OR ONE 1-PHASE 60 AMP 120/208V CIRCUIT. COORDINATE WITH SUPPLIERS DRAWINGS.
(1) 20 AMP 208 VOLT CIRCUIT, EC TO WIRE 2412 TO 208 VOLT FLAG FLOODLIGHTS.
(1) 20 AMP 120 VOLT CIRCUIT TO D.C.O. IN ROAD SIGN BASE IF REQUIRED.
(2) 20 AMP 120 VOLT CIRCUITS FOR INGRESS/EGRESS DIRECTIONAL SIGNS (IF APPLICABLE).

*VERIFY EXACT LOCATIONS/TYPES/QUANTITIES OF ALL THE ABOVE WITH SITE/CIVIL PLANS AND MCD ACM.

LIGHTING FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS		BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER
				WATTS	TYPE			
F2	[]	2' X 4' GRID TROFFER	PRISMATIC ACRYLIC	44W	LED	-	RECESSED	SECURITY LIGHTING: # LCAT4-35HLG-EDU-WP-CK
F7	[]	1' X 4' GRID TROFFER	PRISMATIC ACRYLIC	44W	LED	-	RECESSED	SECURITY LIGHTING # LCAT4-35HLG-EDU-WP-CK
L2R	○	4" LED ADJUSTABLE DOWN LIGHT	-	16W	LED	-	RECESSED	SECURITY LIGHTING # RDA-136LM-30-FL-S/RDA-136-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC
L4	○	3" LED ADJUSTABLE DOWN LIGHT	-	7W	LED	-	RECESSED	SECURITY LIGHTING # RDA-60LM-30-NF-S/RDA-60-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC
F12G	○	6" LED DOWN LIGHT - GOLD TRIM	-	12.5W	LED	-	RECESSED	SECURITY LIGHTING # 8542-5CCT
B	○○	RING PENDANT	-	96W EA	LED	-	SUSPENDED	SECURITY LIGHTING # MPLN-63R-400-LM-30-DGCDS
D	⊕	ORBIT PENDANT	-	19W	LED	-	SUSPENDED	SECURITY LIGHTING # MPLN-11R-120-LM-30-DGCGD
E		LUNA CEILING ELEMENT	-	55W	LED	-	SURFACE	ACOUSTICAL SURFACES # MIKE@ACOUSTICALSURFACES.COM

SHEET NO.	TITLE	DRAWN BY MES	STD ISSUE DATE 2025	PREPARED FOR: JAW	2025 STANDARD BUILDING - BB20		REVIEWED BY JAW	DATE ISSUED 02/14/2025
					DESCRIPTION	WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD ROOF TRUSS FRAMING STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES		
	JAWA 24-0220 E 2.0 LIGHTING PLAN							

KEY NOTES

- CENTER PENDANT LIGHTS OVER TABLES (TYPICAL)
- ALL SOFFIT LOCATIONS, LIGHTING, & SUPPLY GRILLS SHALL BE COORDINATED WITH DECOR COMPANY DRAWING PRIOR TO INSTALLATION.
- EC SHALL INSTALL AND CONFIGURE REMOTE CONTROLLER FOR LIGHTING AT ALL EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGRESS. INSTALL WP J-BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EXTERIOR EMERGENCY EGGS LIGHTING (TYPICAL).
- OPTIONAL ADJUSTABLE WALL FIXTURE TO ILLUMINATE LOGO OR GRAPHICS. EC SHALL VERIFY EXACT LOCATION SO AS TO ADEQUATELY ILLUMINATE MCDONALD'S ARCH LOGO SIGN AND GRAPHICS.
- AIR CURTAIN UNIT. NON HEATED VERSION TO USE 1/2°C. #212, #120RD. HEATED VERSION TO USE 1°C. #6, #10 GRD. (TYPICAL).
- PROVIDE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR OR WALL MOUNTED VACANCY SENSOR AS SHOWN. ORDER ALL SENSORS FROM SECURITY LIGHTING SYSTEMS, INC.
- RADIAL WALL SCONCE. SEE NOTE L2 ON SHEET E3.1 AND ARCHITECTURAL ELEVATIONS ON SHEETS A2.0 & A2.1. (TYPICAL)
- BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.
- PROVIDE LIGHTING INVERTER FOR USE WITH FIXTURES SHOWN SLASHED. MODEL #LG125T SHOULD BE USED FOR L2R, L4 & F12G WITH NOT MORE THAN SEVEN DOWNLIGHTS CONNECTED TO EACH INVERTER, AND NOT MORE THAN TWO FIXTURES. IF DECOR USES ALTERNATIVE FIXTURES, COORDINATE WITH E.C. TO BE USED WITH LIGHTING SUPPLIER. E.C. SHALL VERIFY THE QUANTITY OF FIXTURES THAT CAN BE CONNECTED WITHOUT EXCEEDING OPERATING CAPACITY OF UNIT AND PROVIDED ADDITIONAL CIRCUITS AND INVERTERS AS REQUIRED (TYPICAL).
- CENTER VACANCY SENSOR SWITCH OPPOSITE DOOR. PROVIDED DASH K TO LOCATE ACCESS FROM BOTH DOORS FOR CONTROL OF CEILING MOUNTED LIGHT IN DATA ROOM. FAN CONTROLLED BY LOCAL THERMOSTAT.
- PROVIDE POWER FOR LIGHT WITHIN EXHAUST HOOD. INTEGRATE INTO LOCAL LIGHTING CONTROLS.
- 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.
- ADJUST FIXTURE TO ILLUMINATE DELIVERY POD SHELVING.
- DRAFT STOP ABOVE CEILING. SEAL ALL ELECTRICAL PENETRATIONS.
- NEW DAYLIGHT SENSOR TO BE INSTALLED TO CONTROL DAYLIGHT AREAS IN DINNING AREAS. ORDER ALL DAYLIGHT SENSORS FROM: SECURITY LIGHTING SYSTEMS, INC.

EMERGENCY LIGHTING NOTES

EL1. EC SHALL VERIFY ALL REQUIREMENTS AND FINAL EMERGENCY LIGHTING LOCATIONS WITH LOCAL AUTHORITIES. INCLUDE ALL COSTS IN BASE BID.

EL2. IF NOT INSTALLED BY MANUFACTURER, EC SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE EMERGENCY INVERTER IN SWITCHED EMERGENCY FIXTURES SHOWN ON THIS SHEET.

EL3. LED FIXTURES DENOTED AS SWITCHED EMERGENCY SHALL BE CONNECTED TO AN INVERTER. INVERTER SHALL BE CAPABLE OF ILLUMINATING FIXTURE FOR 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL924.

EL4. EMERGENCY BATTERY LIGHTING WALL PACKS IN PLAYPLACE SHALL BE LOCATED SO AS TO PROVIDE FOR MAXIMUM ILLUMINATION OF AREA. EC SHALL VERIFY EXACT PLACEMENT IN THE FIELD WITH MCDONALD'S ACM. (IF APPLICABLE)

EL5. EMERGENCY LIGHTING HAS BEEN DESIGNED PER NFPA 101 TO MAINTAIN 1 FC IN PATH OF EGRESS. IF FIELD CONDITIONS REQUIRE ANY CHANGES TO LIGHTING DESIGN, EMERGENCY LIGHTING, SHALL BE INSTALLED TO MEET THE ABOVE REQUIREMENTS.

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PREPARED FOR:
JAW
REVIEWED BY:
JAW
DATE ISSUED: 02/14/2025
SHEET NO.: 402-3651
TITLE: E 2.0
DESCRIPTION: LIGHTING PLAN
ADDRESS: -20 & UNIVERSITY HILLS BLVD, LANCaster, TEXAS

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.

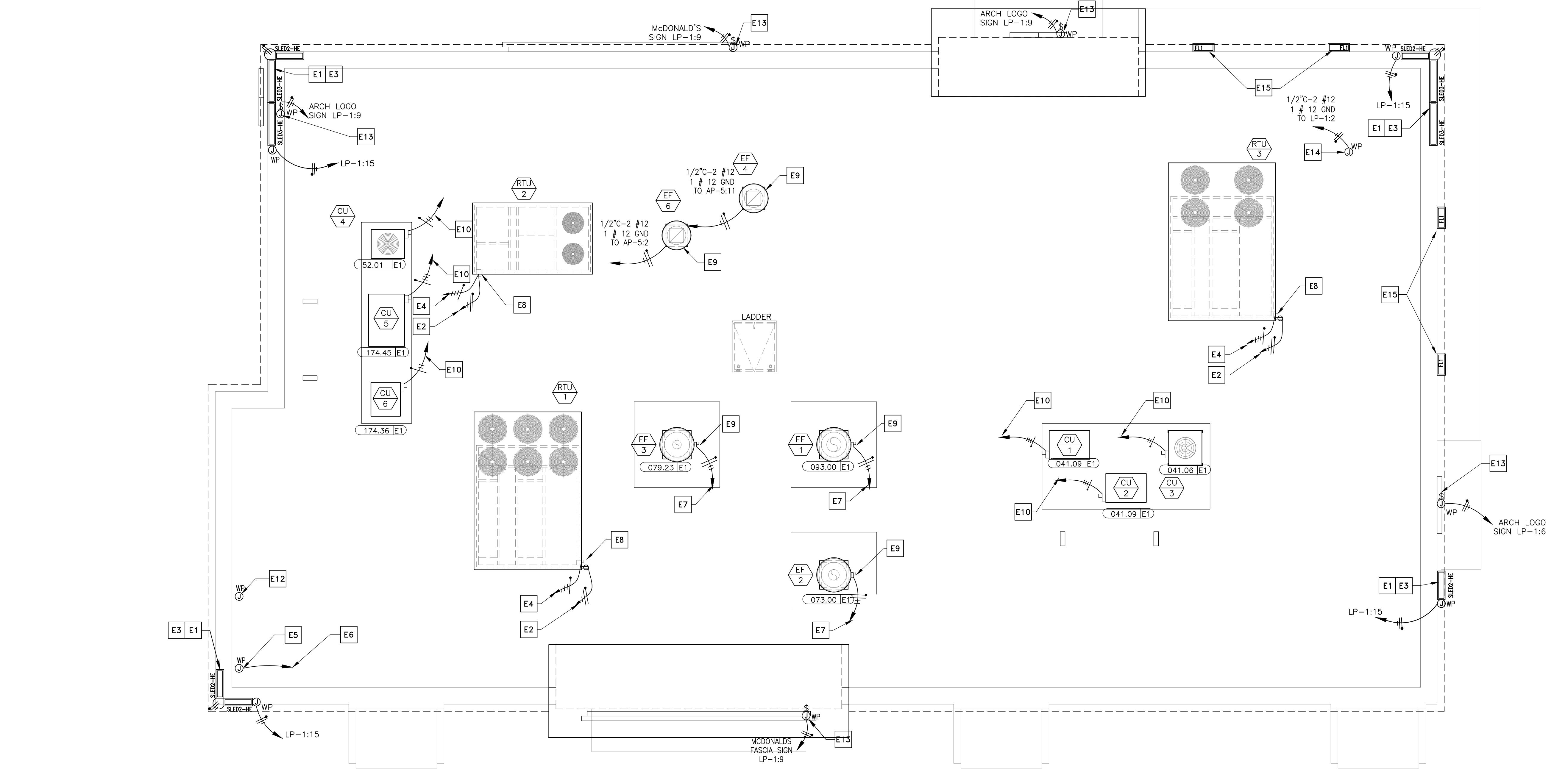
LS2. ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

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.

ORDER ALL LIGHT FIXTURES FROM:

SECURITY LIGHTING SYSTEMS, INC.
PHONE: 1-800-LIGHT-IT (800-544-4848)
EMAIL: SLORDERS@CURRENTLIGHTING.COM

CS ILLUMINATIONS
PHONE: 760-477-1244
EMAIL: MCD@CSILLUMINATIONS.COM
WWW.CSILLUMINATIONS.COM/MCD



1
E2.1 ROOF ELECTRICAL PLAN
1/4"=1'-0"

KEYED NOTES

- E1 EVERY LINEAR RUN OF SLED FIXTURES REQUIRES A DEDICATED WHIP KIT PROVIDED WITH FIXTURE. CONTRACTOR TO FIELD VERIFY FIXTURE MOUNTING HEIGHT, LOCATION, QUANTITY, PRIOR LENGTHS, AND ALL ELECTRICAL CONNECTION REQUIREMENTS WITH SECURITY LIGHTING PRIOR TO ORDERING AND INSTALLATION (TYPICAL).
- E2 WEATHER PROOF RECEPTACLES WITH GFCI PROTECTION ARE PROVIDED AND MOUNTED WITHIN MOTOR HOUSING LOCATIONS PER NEC ARTICLE 210.63. CIRCUIT SHALL EMANATE FROM PANEL AP-5.CCT.#13.(TYPICAL).
- E3 SMOOTH BRACING IS REQUIRED FOR LED FIXTURE INSTALLATION UNDER COPING/FLASHING.(TYPICAL)
- E4 REFER TO SHEET E4.0 FOR CONDUIT AND WIRE SIZE.(TYPICAL)
- E5 E.C. SHALL PROVIDE A WEATHER-PROOF J-BOX ON INSIDE FACE OF PARAPET, MOUNTED 6" BELOW TOP OF PARAPET FOR LIGHTING CONTROL PANEL PHOTOCELL. (PHOTOCELL FURNISHED BY OTHERS AND INSTALLED BY EC). REFER TO LIGHTING CONTROL DETAILS ON E4.1
- E6 TO LIGHTING ENCLOSURE W/ TIMER. COORDINATE WITH LIGHTING CONTROL DETAILS ON SHEET E4.1
- E7 COOKING EQUIPMENT EXHAUST FANS. SEE SHEET E3.0 FOR ELECTRICAL REQUIREMENTS. SEE SHEET E3.2 FOR EXHAUST FAN INTERLOCK WIRING DIAGRAMS. (TYPICAL)
- E8 PROVIDE NEMA 3R DISCONNECT WITH CURRENT LIMITING FUSES TO COMPLY WITH NEC 110 AND 440. ELECTRICAL CONTRACTOR SHALL STUB UP THRU RACEWAY IN CURB TO ELIMINATE CONDUIT PENETRATION OF ROOFING. (TYPICAL)
- E9 EXTERNAL NEMA 3R MOUNTED ON SIDE OF FAN BY MANUFACTURER. ELECTRICAL CONTRACTOR SHALL STUB-UP THRU ROOF AND PROVIDE FLEXIBLE WEATHERPROOF CONDUIT FROM ROOF PENETRATION TO DISCONNECT (TYPICAL).
- E10 REMOTE CONDENSING UNITS. SEE SHEET E3.0 FOR WIRING AND CIRCUITRY REQUIREMENTS.
- E11 CANOPY LIGHT. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH MANUFACTURER. VERIFY EXACT INFEEF REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E3.1. (TYPICAL)
- E12 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.
- E13 E.C. SHALL PROVIDE A JUNCTION BOX FOR ARCH LOGO / MCDONALD'S FASCIA / PLAY-PLACE SIGN. SEE NOTE L1 ON SHEET E3.1. COORDINATE EXACT LOCATION IN FIELD WITH ACM. ALL SIGNS PROVIDED WITH INTEGRAL DISCONNECT SWITCH FROM MANUFACTURER.(TYPICAL)
- E14 E.C. SHALL PROVIDE A JUNCTION BOX FOR ROOF-TOP FLAG POLE LIGHTING. VERIFY LOCATION(S) WITH MCD PROJECT MANAGER PRIOR TO INSTALLATION.
- E15 FLOOD LIGHT MOUNTED ABOVE CANOPY. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH ARCHITECTURAL ELEVATIONS. VERIFY EXACT 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 GENERAL NOTES

1. PLACE LED FIXTURE AT DESIRED LOCATION AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
2. EC SHALL CONNECT NEW FIXTURES TO A 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
3. POWER SUPPLY SHALL ALWAYS BE INSTALLED TO THE LEFT SIDE OF FIXTURE WHEN FACING BRAND WALL.

LED FIXTURE SCHEDULE:

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

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DRAGGING PICTORIALS AND AS SUCH AREDEMENTS FOR EXACT LOCATION AND DIMENSIONS ARE NOT PROVIDED. SPECIFICATIONS ON THE DRAWING ARE INDICATED BY HIGHLIGHTED CALLOUTS. THE CONTRACT DOCUMENTS ARE THE DEFINITIVE SOURCE OF INFORMATION. THIS PROJECT REQUIRES THE SERVICES OF THIS ENGINEER. DRAWINGS ARE THE PROPERTY OF THE CONTRACTOR. THEY MAY NOT BE COPIED, PUBLISHED OR USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CONTRACT DOCUMENTS.


ROBERT D. ANDERSON
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Garland, TX 75043
Firm No. E-5324
1/30/25

JWA 24-0220
E 2.1
ELEC. ROOF PLAN
SHEET NO. 042-3651
TITLE 2025 STANDARD BUILDING - BB20
DESCRIPTION WOOD BEARING WALLS W/4" BRICK/STONE/WOOD
STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES
SITE ADDRESS -20 & UNIVERSITY HILLS BLVD, LANCaster, TEXAS
DRAWN BY MEC
STD ISSUE DATE 2025
REV'D BY JAW
DATE ISSUED 02/14/2025

PB	= Pullbox	VIF	= Verify in Field	ELECTRICAL SCHEDULE										PB	= Pullbox	VIF	= Verify in Field	ELECTRICAL SCHEDULE									
JB	= Junction Box													EC	= Electrical Contractor												
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"	-	197.01E1	1	HAND WASH TIMER	120/1	0.1	20A	1/2C-#2#12	AP-1:33	5-20R	4'-6"	-						
004.23E1	1	DIGITAL MERCHANTISER - MEDIA PLAYER	120/1 ISOLATED	1.0	20A	1/2C-#2#12G	CP:6	IG5262	6'-5"	USE SAME RECEPTACLE AS 4.20E6	203.01E1	1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	208/3	13.0	30A	3/4C-#3#8	AP-1:(18,20,22)	4x4x4 PB	1'-0"	RECEP #4A60R9 BY KES, IF TAYLOR C602 IS ORDERED USE A 40A BRKR & #6 CONDUCTORS - EC MAKES FINAL CONN						
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	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 RECEPTACLE IN CHASE						
009.15E1	1	UTILITY CHASE - FFDT INTERIOR WALL	-	-	-	-	-	-	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.	205.09E2	1	FROZEN BEVERAGE DISPENSER	208/1	20.0	30A	1/2C-#2#10	AP-5:(17,19)	SEE RMKS	SEE RMKS	RECEP L-6-30R IN CHASE BY KES, EC MAKES FINAL CONN						
009.16E1	1	UTILITY CHASE - FFDT EXTERIOR WALL	-	-	-	-	-	-	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.	207.01E2	1	BLENDER - MCCLURRY - RAIL MOUNT	120/1	1.2	20A	1/2C-#2#12	AP-2:7	5-20R	4"-0"	-						
020.01E1	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	5.0	20A	1/2C-#2#12	AP-1:12, AP-2:24	5-20R	2"-0"	-	210.00E10	1	CASH RECYCLER	120/1	4.4	20A	1/2C-#2#12G	CP:27	(2) IG5262	SEE RMKS	PROVIDE RECEP. IN COUNTER-MOUNTED RACEWAY						
020.01E2	2	AUTOMATED BEVERAGE SYSTEM 2.0	120/1	14.9	20A	1/2C-#2#12	AP-1:6, AP-2:26	5-20R	3"-10"	FOR PRE-COOLER	210.00E4	1	CASH RECYCLER	120/1	4.4	20A	1/2C-#2#12G	CP:24	(2) IG5262	SEE RMKS	RECEP L-6-30R IN CHASE BY KES, EC MAKES FINAL CONN						
021.01E3	3	COFFEE BREWER (THERMAL POTS)	120-208/1	15.5	20A	1/2C-#3#12	AP-1:(2,4)(14,16), AP-6:(11,13)	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO L14-20R RECEPTACLE IN CHASE	211.00E6	1	DELIVERY TABLETS	120/1	3.0	20A	1/2C-#2#12	AP-5:21	(2) 5-20R	5'-6"	-						
023.11E1	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 RECEPTACLE IN CHASE	214.02E1	1	TECHNOLOGY RACK	120/1	5.0	20A	1/2C-#2#12G	CP:11	IG4700	7"-6"	FOR SWITCHES, HUBS AND RADII						
023.12E1	1	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 RECEPTACLE IN CHASE	214.02E3	1	TECHNOLOGY RACK	120/1	10.0	20A	1/2C-#2#12G	CP:15	IG4700	3"-0"	FOR CASHLESS DEVICE UPS						
023.14E1	1	SUGAR/SWEETENER DISPENSER	120/1	1.5	20A	1/2C-#2#12	AP-1:8	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE	214.02E4	1	TECHNOLOGY RACK	120/1	12.0	20A	1/2C-#2#12G	CP:17	IG4700	3"-0"	FOR POS SYSTEM UPS AND ORB CONTROLLER						
024.02E1	1	JUICE DISPENSER	120/1	4.5	20A	1/2C-#2#12	AP-1:8	5-20R	SEE RMKS	EC TO EXTEND CIRCUIT TO 5-20R RECEPTACLE IN CHASE	214.02E5	1	TECHNOLOGY RACK	DATA CABLE	-	-	-	-	8x6x4 PB	7"-6"	EXTEND (2) 1/2" CONDUIT ABOVE CLG. W/BUSHING FOR DATA CABLES						
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	14.0	30A	1/2C-#2#10IG	CP:12	IG4700	3"-0"	FOR POS SYSTEM UPS						
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"	EC SUPPLIES 30A-3P NF DISC SW MTD 9" BELOW CEILING PER NEC SEC. 404.8(A)	215.00E12	1	POS REGISTER - FRONT COUNTER	120/1	3.0 EA	-	3/4C-#2#12G	CP:19	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY						
031.03E2	1	SODA SYSTEM PACKAGE - B.I.B. (RECIRCULATING - 3 TOWERS)	-	-	-	-	-	JB	4"-0"	FOR CONTROL WIRES FROM REMOTE CONDENSING UNIT	215.00E3	1	POS REGISTER - FRONT COUNTER	DATA CABLE	-	-	-	-	4x4x4 PB	10"	EXTEND 2" CONDUIT TO 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"	FOR WATER BOOSTER SYSTEM AND OPTIONAL AIR COMPRESSOR	215.02E1	1	POS REGISTER - 2 WINDOW D/T	120/1	3.0 EA	SEE RMKS	1/2C-#2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE						
032.02E1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM - TANKLESS	120/1	4.0	20A	1/2C-#2#12 EA	AP-2:23	5-20R	6'-0"	-	215.02E10	2	POS REGISTER - 2 WINDOW D/T	120/1	3.0 EA	SEE RMKS	1/2C-#2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE						
032.04E1	1	WATER FILTRATION SYSTEM	120/1	0.08	20A	1/2C-#2#12 EA	AP-2:23	5-20R	6"-0"	-	215.02E12	1	POS REGISTER - FRONT COUNTER	120/1	3.0 EA	SEE RMKS	1/2C-#2#12IG	CP:19	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY						
037.03E1	2	CO2 SAFETY SYSTEM - DETECTOR	120/1	1.0	20A	1/2C-#2#12	AP-1:10	JB	SEE RMKS	PROVIDE LOCKOUT CB. SEE MECHANICAL DRAWINGS	215.02E13	2	POS REGISTER - 2 WINDOW D/T	120/1	3.0 EA	SEE RMKS	1/2C-#2#12IG	CP:1	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE						
037.03E2	2	CO2 SAFETY SYSTEM	-	-	-	-	-	JB	SEE RMKS	FOR LV WIRES STUB 3/4C. ABV. CLG. SEE MECHANICAL DRAWINGS	215.04E1	2	POS - KVS MONITOR	120/1	1.5 EA	SEE RMKS	1/2C-#2#12IG	CP:8	IG4700	SEE RMKS	EC TO EXTEND CIRCUIT TO 1/2" LOW VOLTAGE CONDUIT DIAGRAM FOR CONDUITS UNDER SLAB AND EXTEND (2) 1/2" C. TO ABOVE CLG.						
037.03E4	4	CO2 SAFETY SYSTEM - CO2 DETECTOR AV ALARM	-	-	-	-	-	JB	SEE RMKS	SEE RMKS	215.04E4	2	POS - KVS MONITOR	120/1	1.5 EA	SEE RMKS	1/2C-#2#12IG	CP:26	SEE RMKS	SEE RMKS	REFER TO D/T LOW VOLTAGE CONDUIT DIAGRAM FOR CONDUITS UNDER SLAB AND EXTEND (2) 1/2" C. TO ABOVE CLG.						
038.00E1	1	CLEAN IN PLACE PANEL	120/1	1.0	20A	1/2C-#2#12	AP-2:21	5-20R	5"-6"	-	215.04E5	1	POS - KVS MONITOR	120/1	1.5 EA	SEE RMKS	1/2C-#2#12IG	CP:3	SEE RMKS	SEE RMKS	SEE RMKS	REFER TO D/T LOW VOLTAGE CONDUIT DIAGRAM FOR CONDUITS UNDER SLAB AND EXTEND (2) 1/2" C. TO ABOVE CLG.					
039.10E1	1	ICE MACHINE - 1400 LB.	208/3	13.4	20A	1/2C-#3#12	AP-2:(1,3,5)	SEE RMKS	SEE RMKS	EC SUPPLIES 30A-3P NF DISC SW MTD 9" BELOW CEILING PER NEC 404.8(A) EX2. VERIFY W/ AHJ	215.04E6	1	POS - KVS MONITOR	120/1	1.5 EA	SEE RMKS	1/2C-#2#12IG	CP:23	IG4700	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE						
039.10E2	1	ICE MACHINE - 1400 LB.	-	-	-	-	-	JB	4"-6"	CONTROL WIRES TO REMOTE CONDENSER	215.04E7	3	POS - KVS MONITOR	120/1	1.5 EA	SEE RMKS	1/2C-#2#12IG	CP:23	IG4700	SEE RMKS	EC TO EXTEND CIRCUIT TO IG4700 RECEPTACLE IN CHASE						
039.15E1	2	ICE MACHINE - 1000 LB.	120/1	1.1	15A	1/2C-#2#12	AP-1:37,39	5-20R	SEE RMKS	MOUNT 9" BELOW CEILING - CIRCUIT BREAKERS SHALL BE HACR TYPE	215.04E8	1	POS - KVS MONITOR	DATA CABLE	-	-	-	-	4x4x4 PB	4"-0"	EXTEND 2" CONDUIT ABOVE CEILING. CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER						
039.15E2	2	ICE MACHINE - 1000 LB.	-	-	-	1/2C	-	JB	SEE RMKS	MOUNT 9" BELOW CEILING - CONTROL WIRES TO REMOTE CONDENSER	215.07E1	1	POS REGISTER - DELIVERY	120/1	3.0	20A	1/2C-#2#12IG	CP:23	IG4700	3"-0"							

PB = Pullbox
JB = Junction Box
EC = Electrical Contractor

VIF = Verify in Field

ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
701.34E1	1	ACCESS CONTROL PANEL	120/1	2.0	20A	1/2" C-2#12	LP-1:16	JB	8'-0"	ROUTE LOW VOLTAGE WIRES TO DOOR BUTTON, HORN AND DOOR STRIKE AS REQUIRED. SUPPLY WITH 4 RELAY CONTROL BOARD.

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 PIPE & 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 PUCO (ONE DUPLEX) OR PJZCO (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. HUBBELL EDGE CONNECT IS APPROVED ALTERNATIVE.

- 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.

- EC 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 208V/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) COAXIAL 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 INCOPORATE ALL OTHER REQUIREMENTS NECESSARY FOR COMPLETE AND OPERATIONAL TELEPHONE SYSTEM(S) AT THIS SITE. THE REMAINING UNUSED TELEPHONE CONDUCTOR PAIRS SHALL BE CAPPED AND LEFT IN PLACE FOR FUTURE USE. THE TELEPHONE PANEL/BOX SHALL BE GROUNDED AS SHOWN IN THE "BUILDING ELECTRICAL GROUNDING DETAIL".

- 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 TELECOM 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 TELECOM 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 CONDUCTORS WITH NO LESS THAN 200 LB/TENSILE STRENGTH. PROVIDE AT LEAST 6 INCHES OF SLACK IN EACH END OF THE WIRES.
- AFTER INSTALLATION OF COMMUNICATIONS CABLING AND BUSHINGS, 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).
- CONDUIT RUNS MAY BE COMBINED EXCEPT WHERE ISOLATED GROUNDS ARE USED. IG CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS. ALL HOME RUNS SHALL BE SIZED BASED ON DERATED CONDUCTOR AMPACITIES AND INCREASE CONDUIT AND WIRE SIZE AS REQUIRED BY NEC SECTION 310 REQUIREMENTS.
- CONDUIT SHALL HAVE A MAXIMUM OF 4 BENDS WITHOUT A JUNCTION BOX TO PREVENT DAMAGE TO CABLE DURING PULLING. THE EC SHALL PIGTAIL #12 PULL WIRE AT EACH END FOR INSTALLER TO PULL CABLE. ALL LOW VOLTAGE CONDUIT STUB-UPS SHALL BE PROVIDED WITH A BUSHING.
- MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS NOTED OTHERWISE. WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW.
- 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.
 - BELOW GRADE, SINGLE RUN: RNC, RMC.
 - BELOW GRADE, GROUPED: RNC, RMC.
 - CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFCM.
 - 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)

1. THIS EXAMPLE IS FOR A SIDE BY SIDE CASH HANDLER THAT DOES NOT HAVE A RETROFIT KIOSK. IT IS ALSO INTENDED FOR ALL STACKED CASH HANDLERS.
2. EACH SIDE BY SIDE CASH HANDLER UTILIZES 3 PLUGS AND ADDS 4.4 AMPS OF LOAD.
3. EACH STACKED CASH HANDLER UTILIZED 2 PLUGS AND ADDS 3.6 AMPS OF LOAD.
4. ONE SIDE BY SIDE CAN BE CONNECTED TO A KIOSK, HOWEVER TWO STACKED UNITS CAN BE CONNECTED. REFER TO DECOR PLANS FOR EXACT CONFIGURATIONS.

1. THIS EXAMPLE IS FOR A SIDE BY SIDE CASH HANDLER WITH THE REAR OF THE UNIT FACING A FULL HEIGHT GL BUILT WALL.
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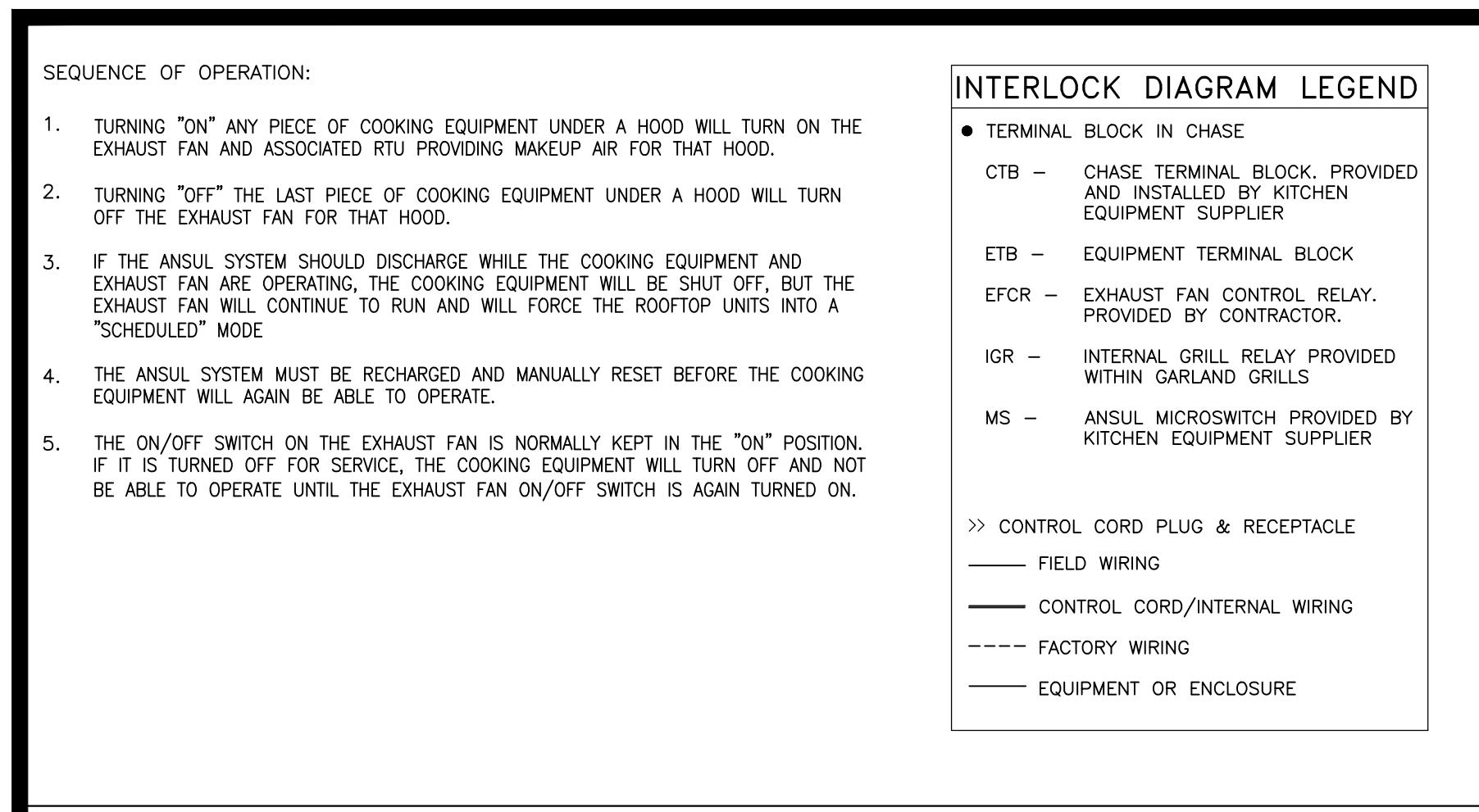
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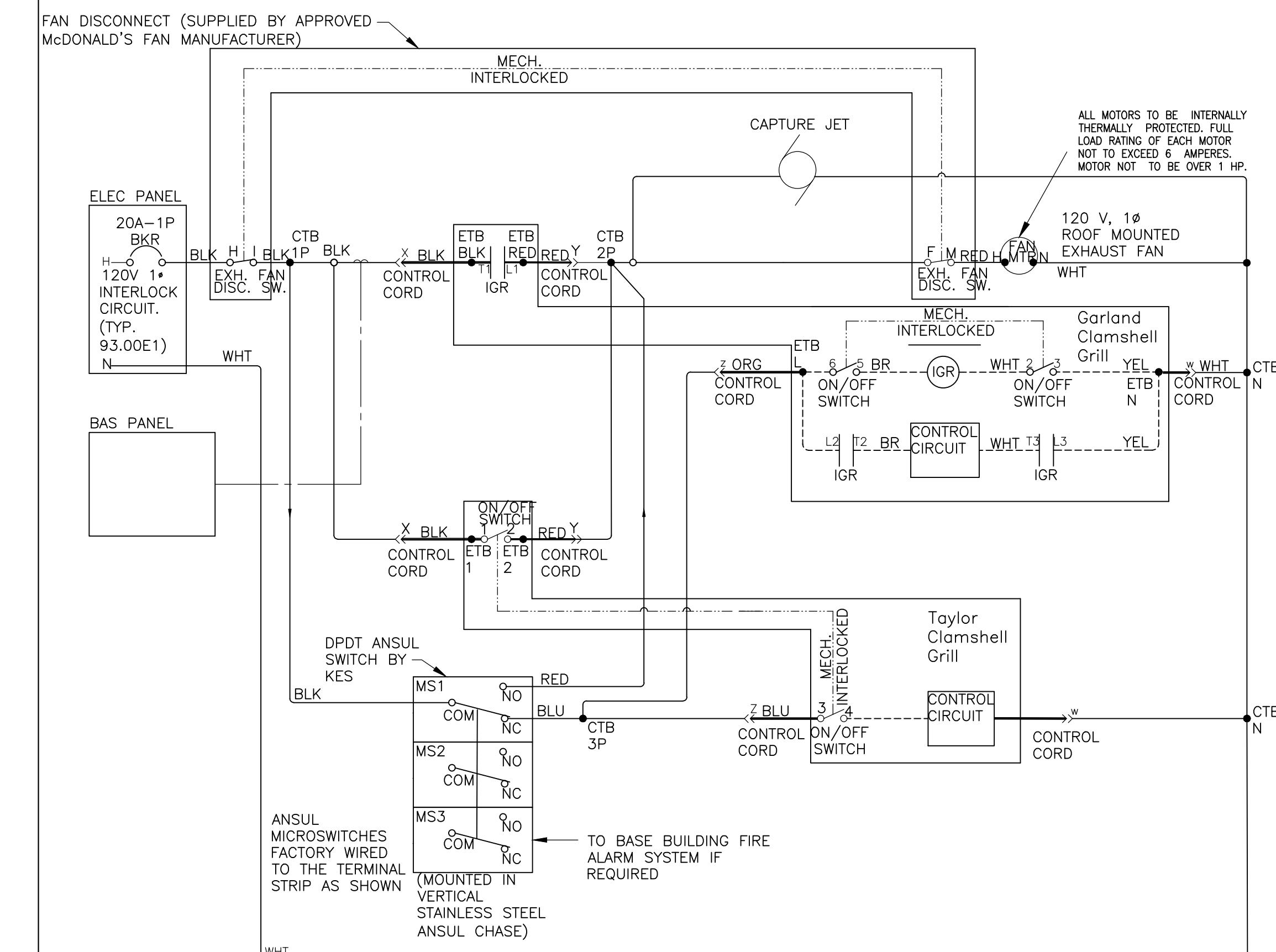
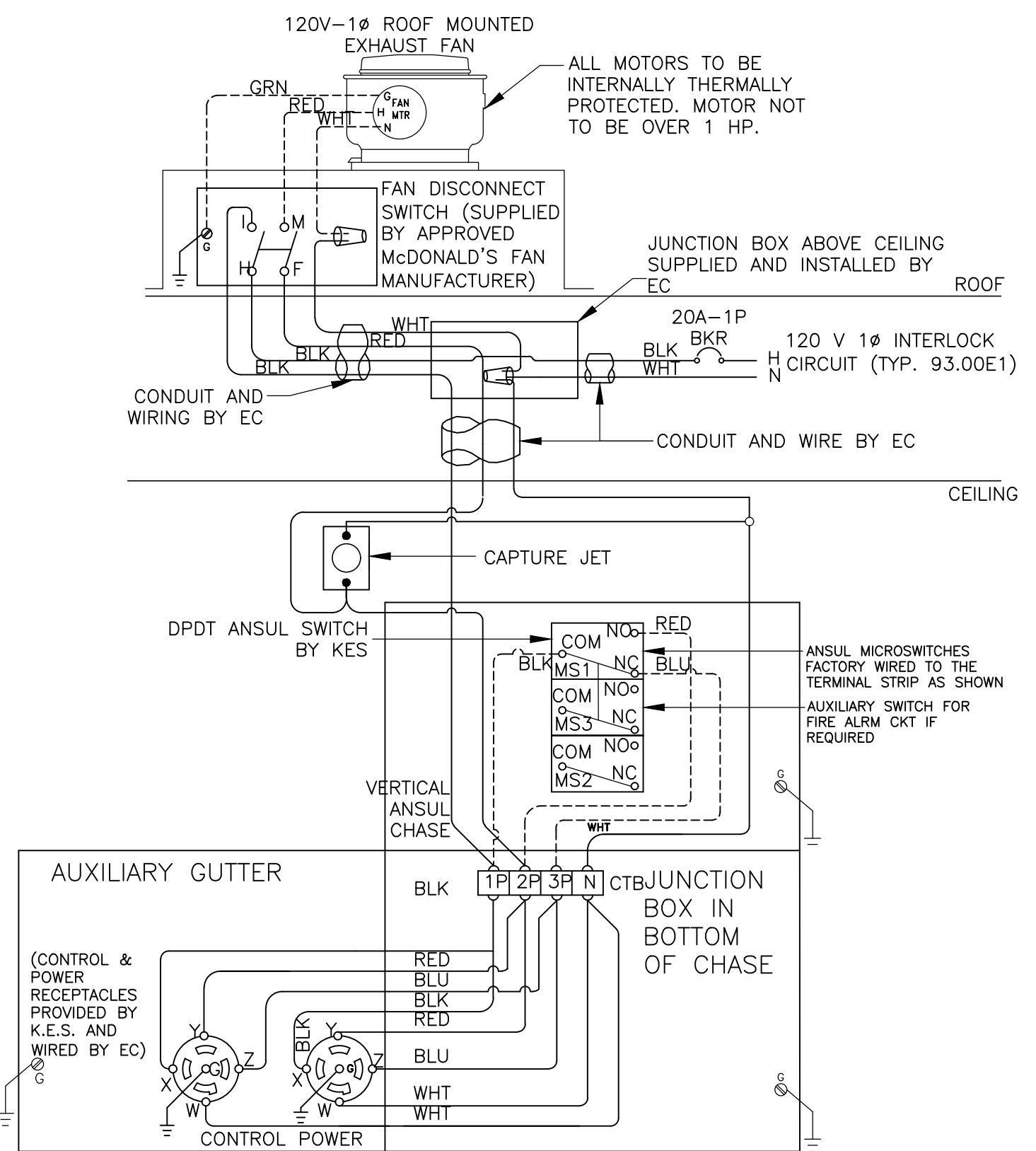


COOKING EQUIPMENT EXHAUST FAN	MAKE UP PROVIDED BY
EF/1	RTU-3
EF/2	RTU-1
EF/3	RTU-2

NOTE
RTU # ASSOCIATED WITH EACH EXHAUST FAN BASED ON PROTOTYPICAL VALUES ONLY. VERIFY THAT EXHAUST FAN ACTIVATES THE CORRESPONDING RTU TO PROVIDE AN ADEQUATE AMOUNT OF MAKEUP AIR.

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

REVISED: 6/18



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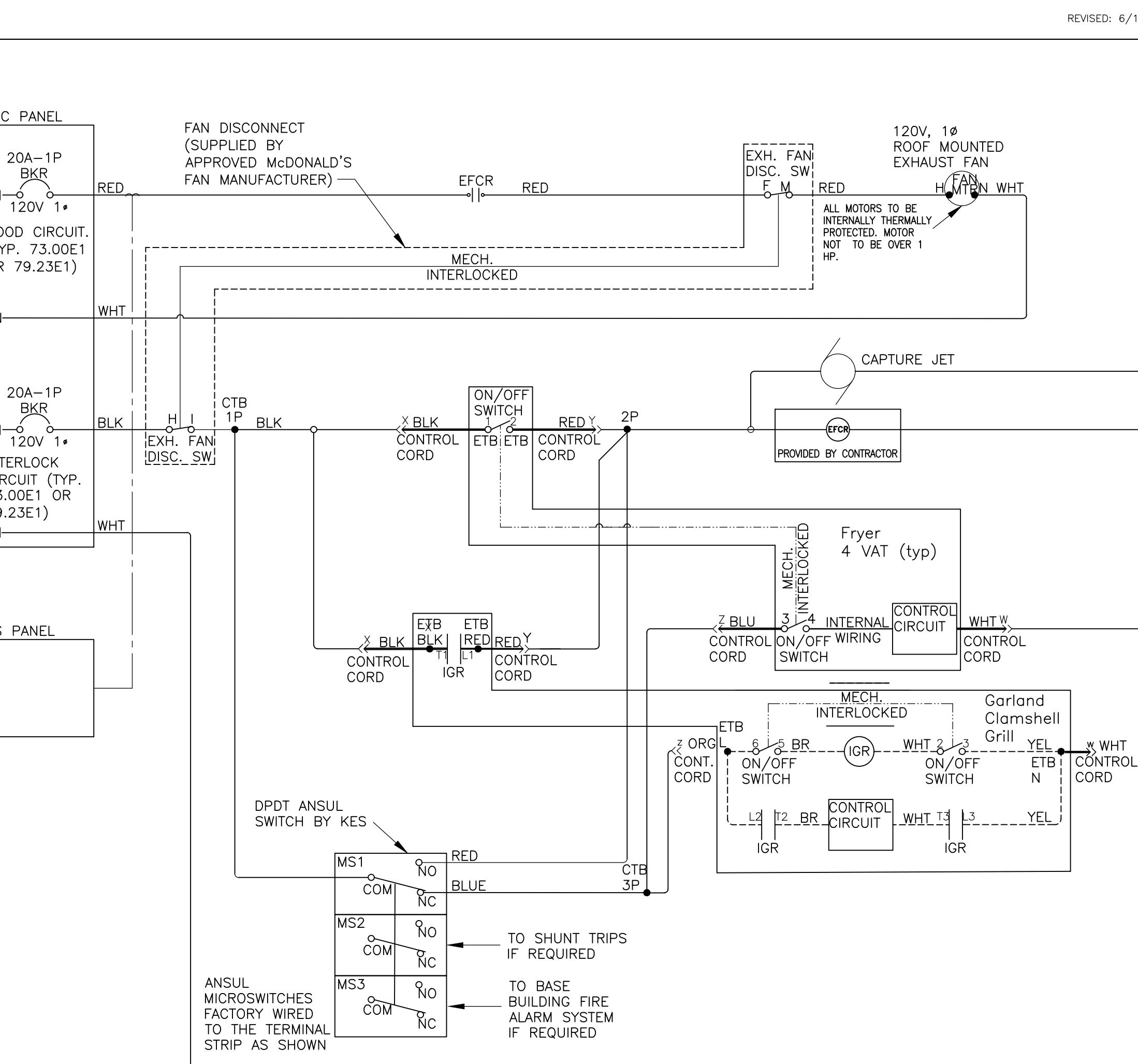
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ENGINEER



REVISED: 6/18

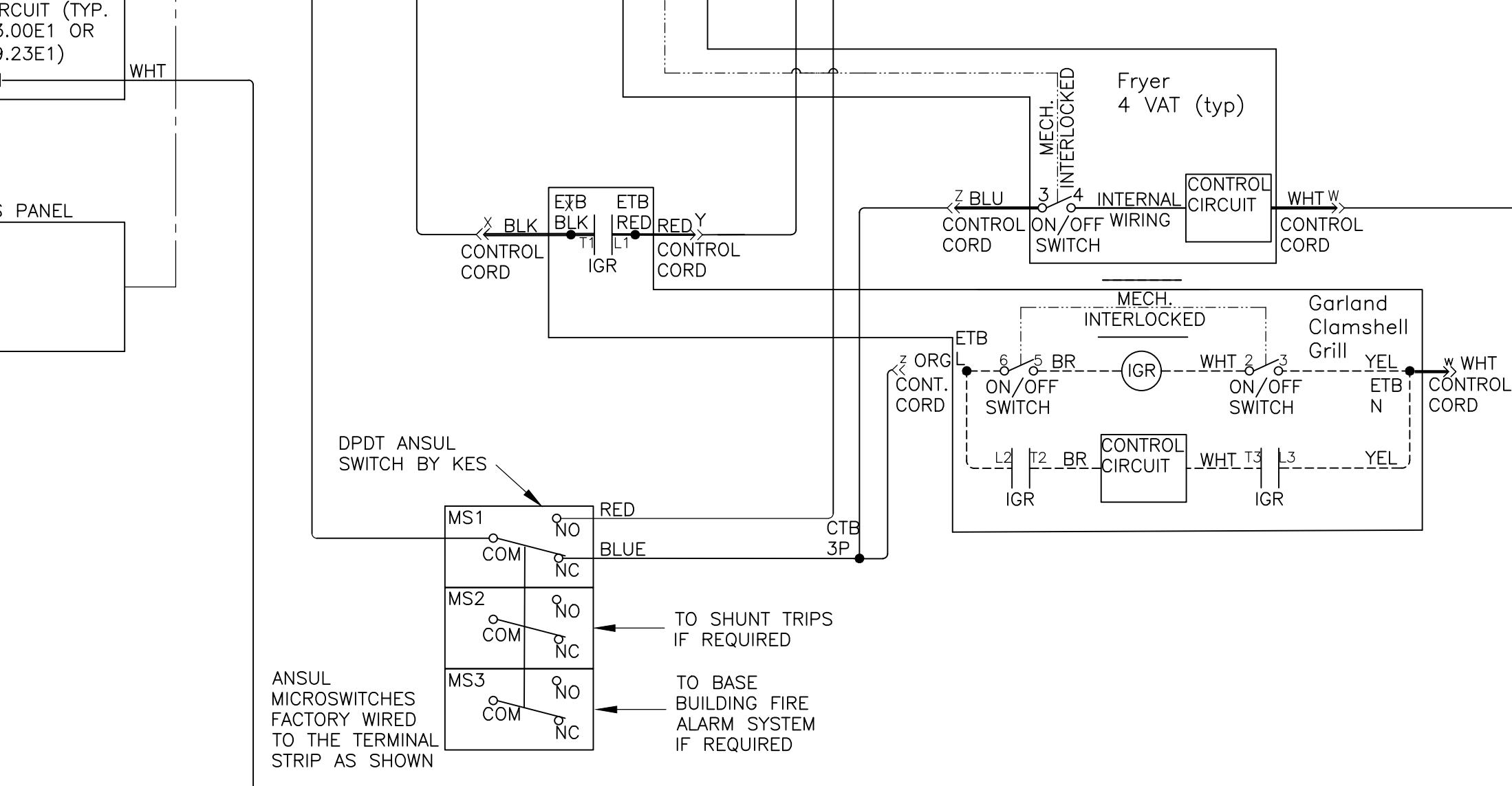
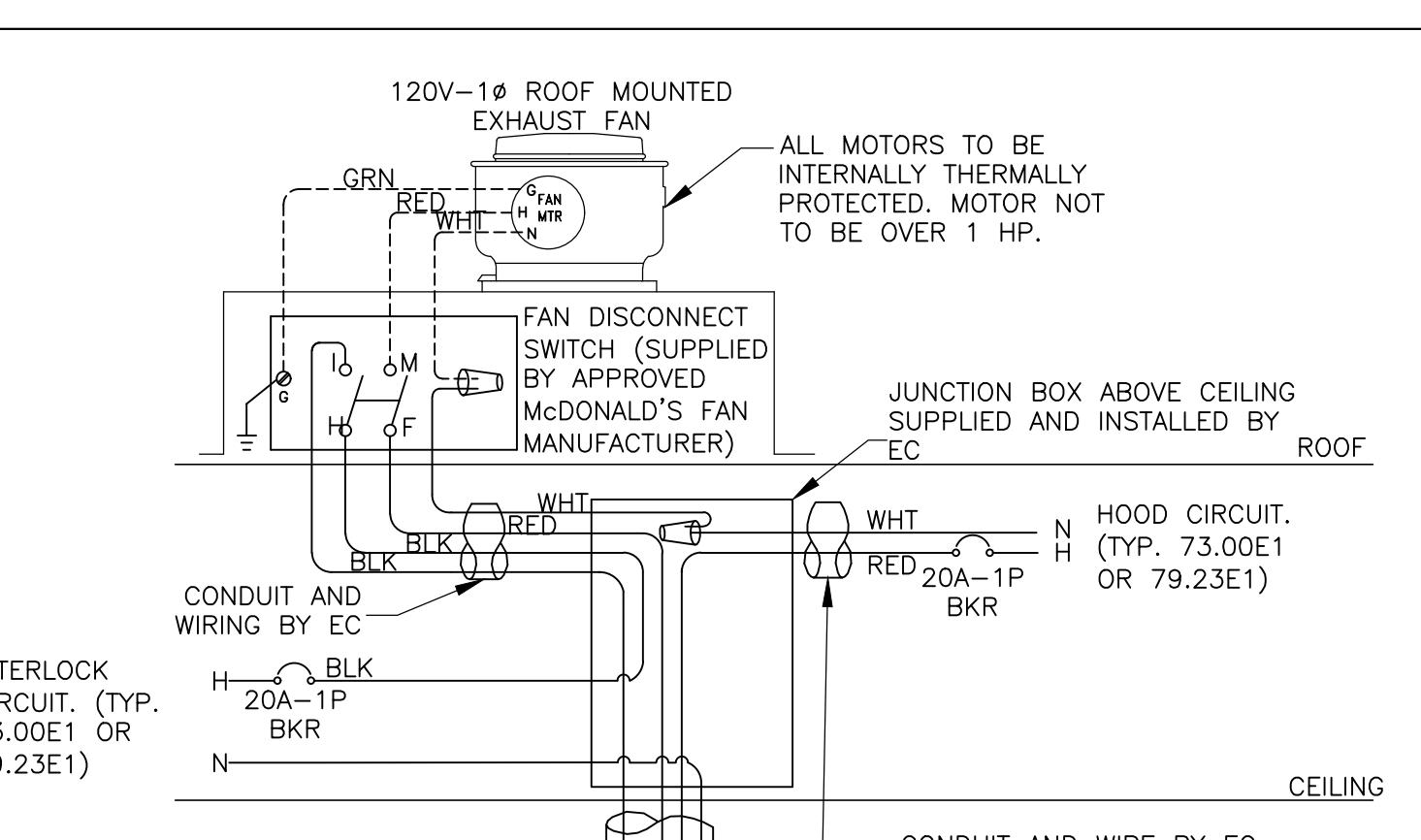


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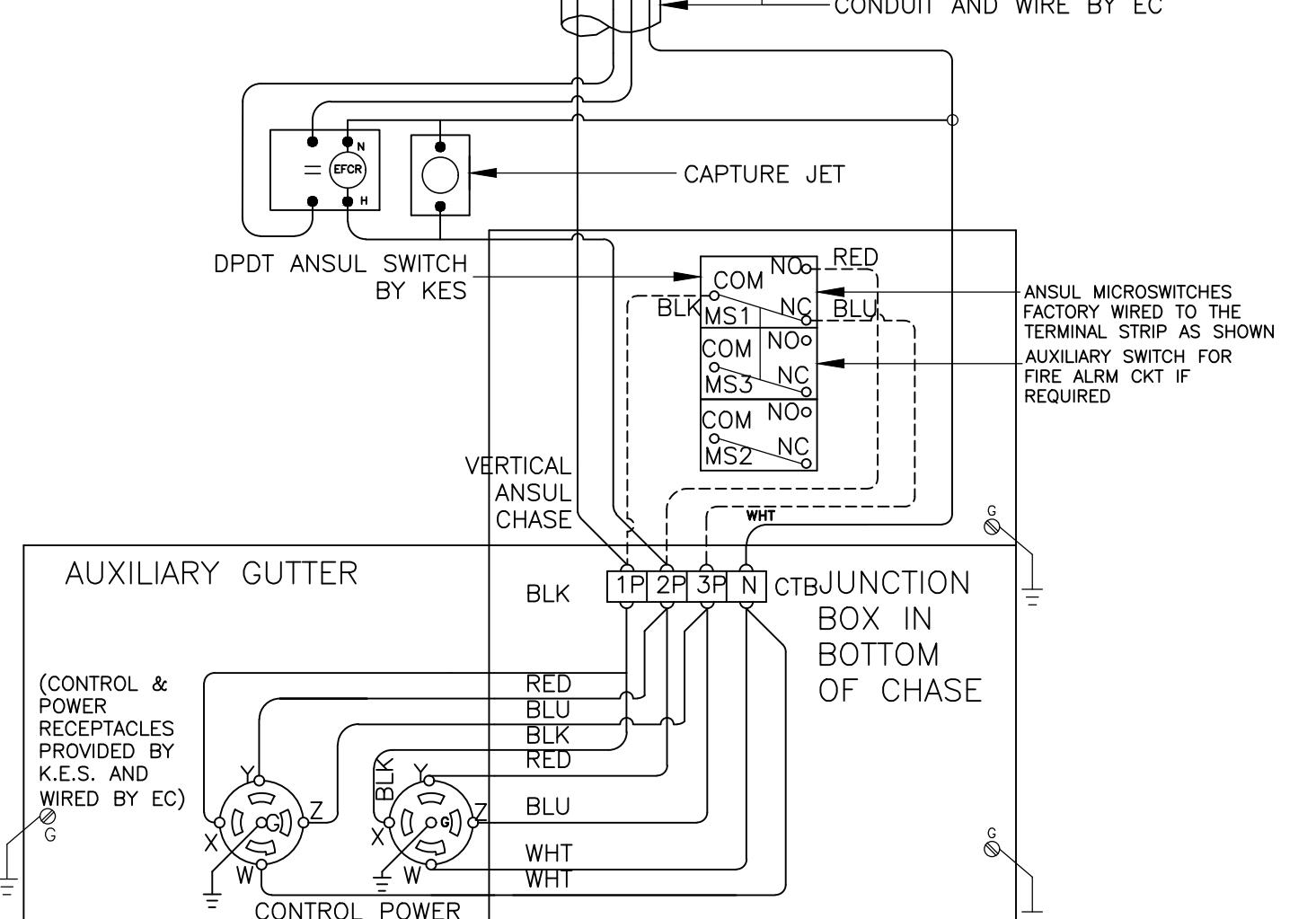
McDonald's USA, LLC

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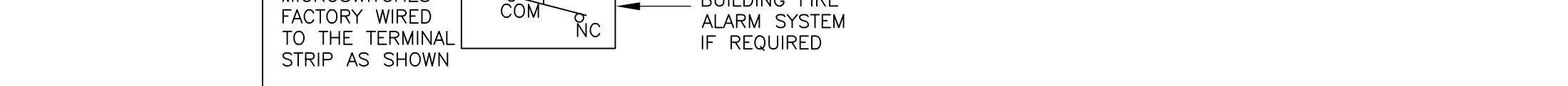
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SHEET NO.	TITLE		DRAWN BY MES
	2025 STANDARD BUILDING - BB20		STD ISSUE DATE 2025
DESCRIPTION	WOOD BEARING WALLS W/4" BRICK/STONE VENEER WOOD ROOF TRUSS FRAMING STUCCO/BATTEN/METAL/STONE/BRICK EXTERIOR FINISHES		REVIEWED BY JAW
SITE ID	SITE ADDRESS		DATE ISSUED 02/14/2025
042-3651	NFC I-20 & UNIVERSITY HILL S BLVD LANCASTER TEXAS		
 JAWA 24-0220 INTERLOCK DIAGRAMS			



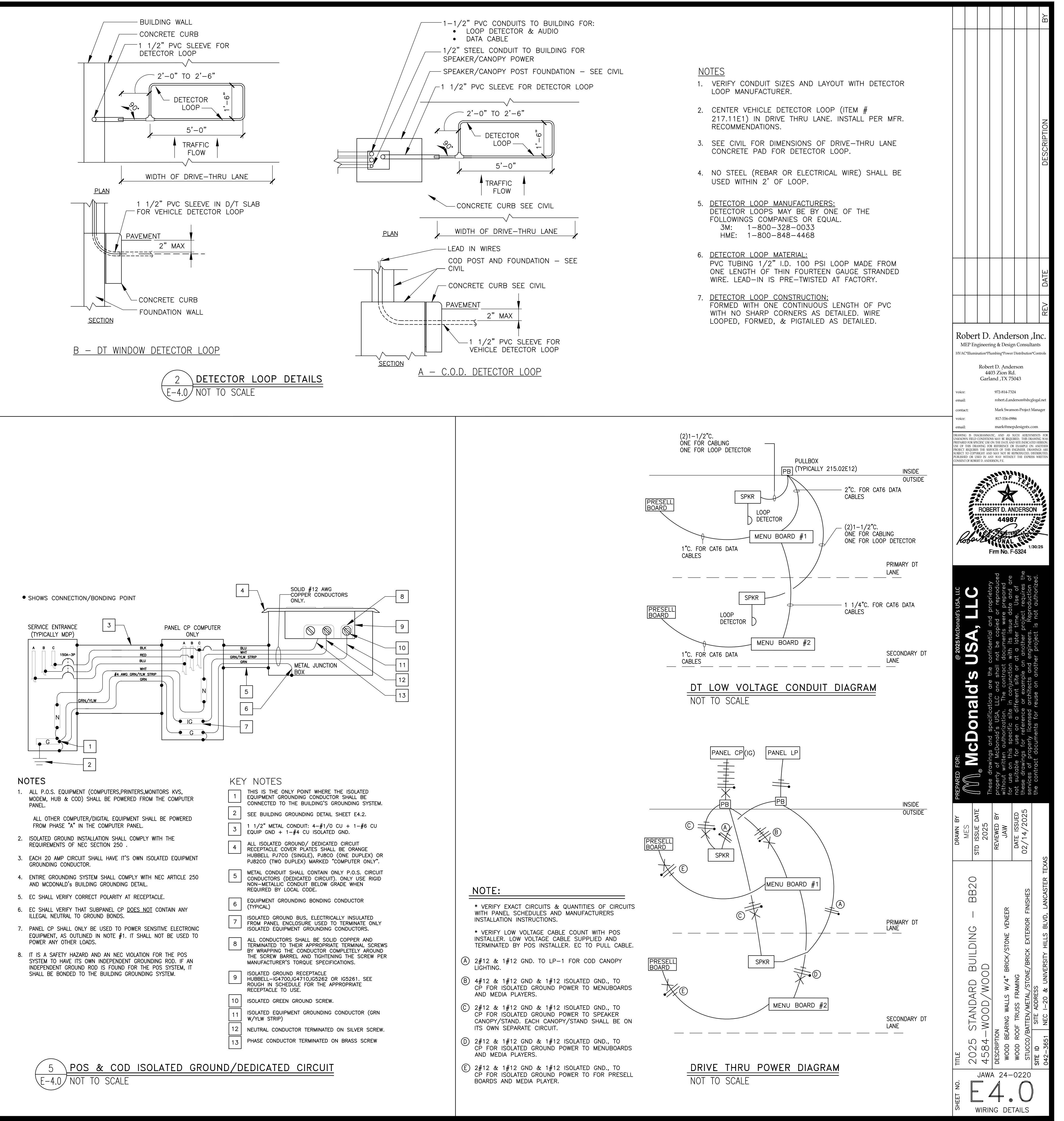
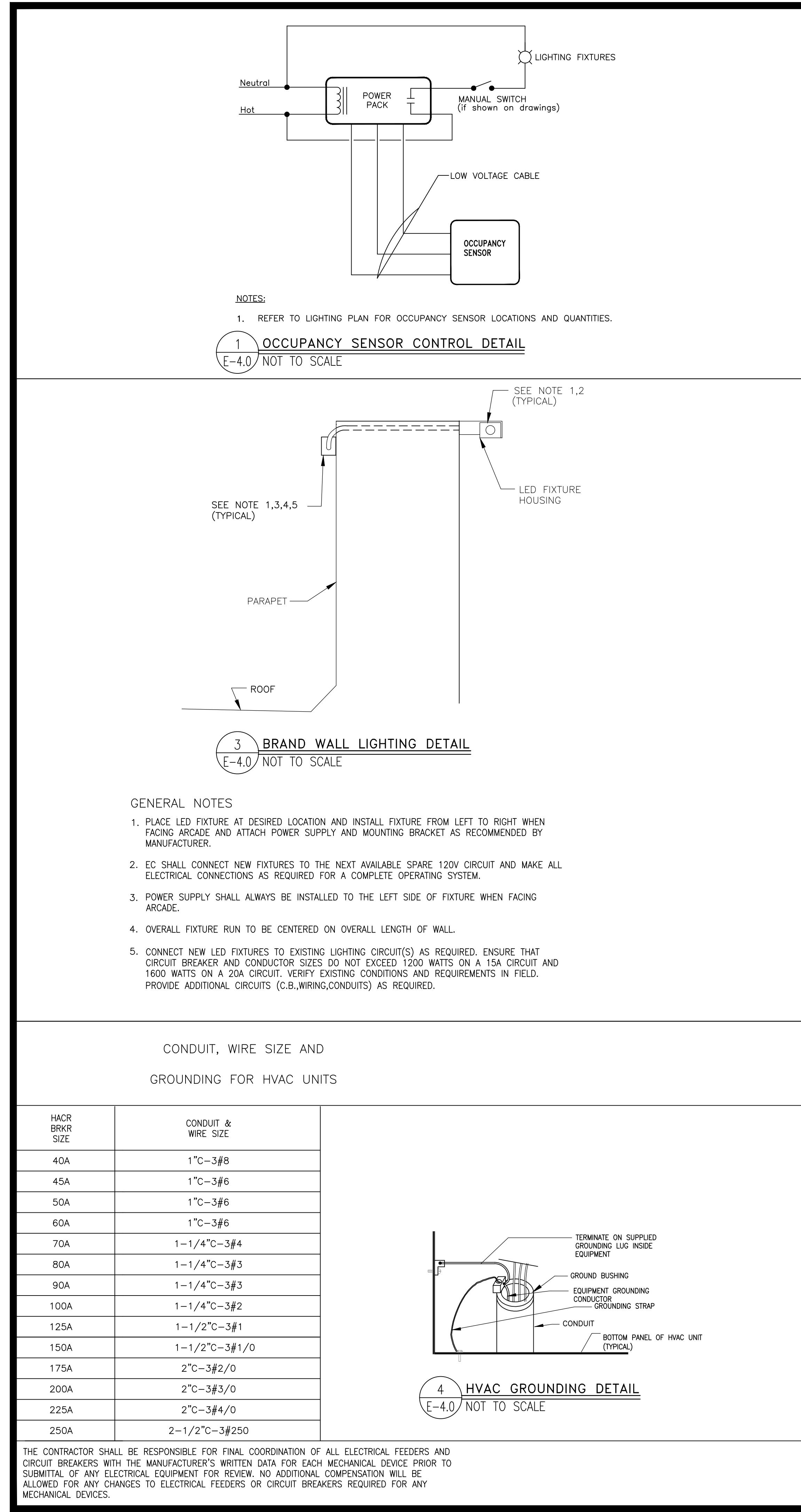
REVISED: 6/18



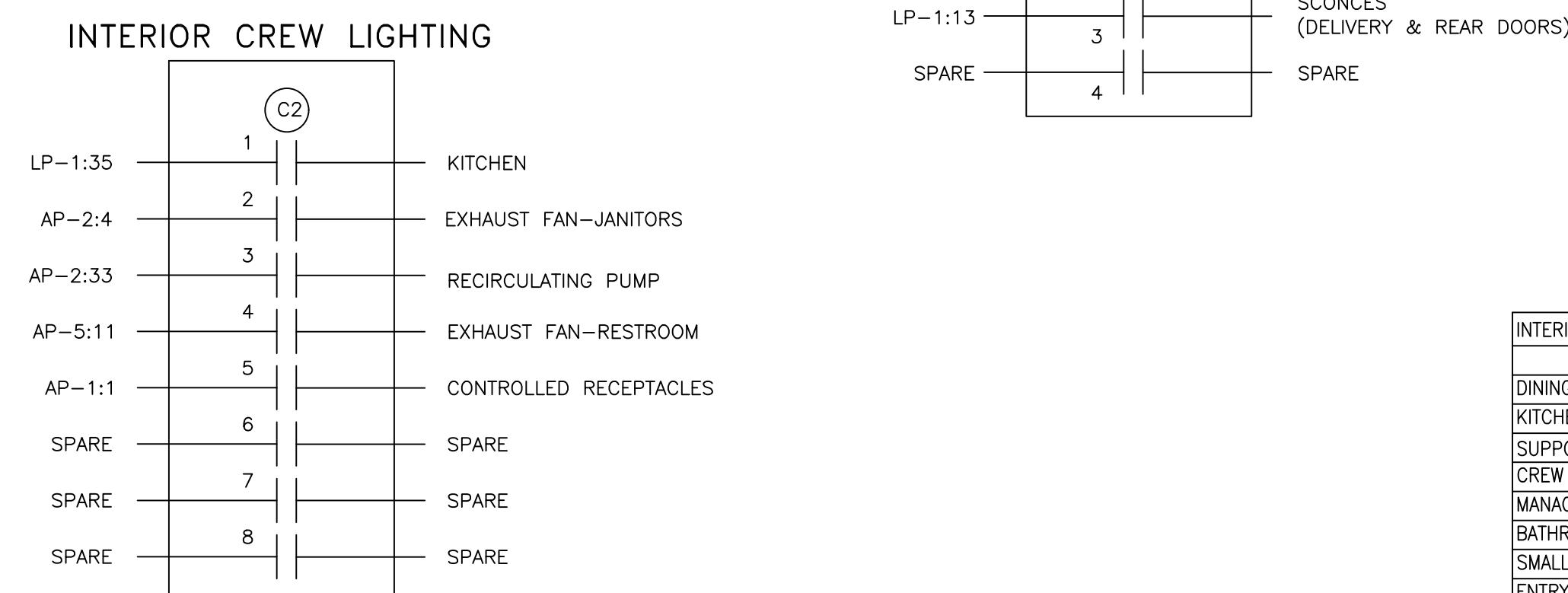
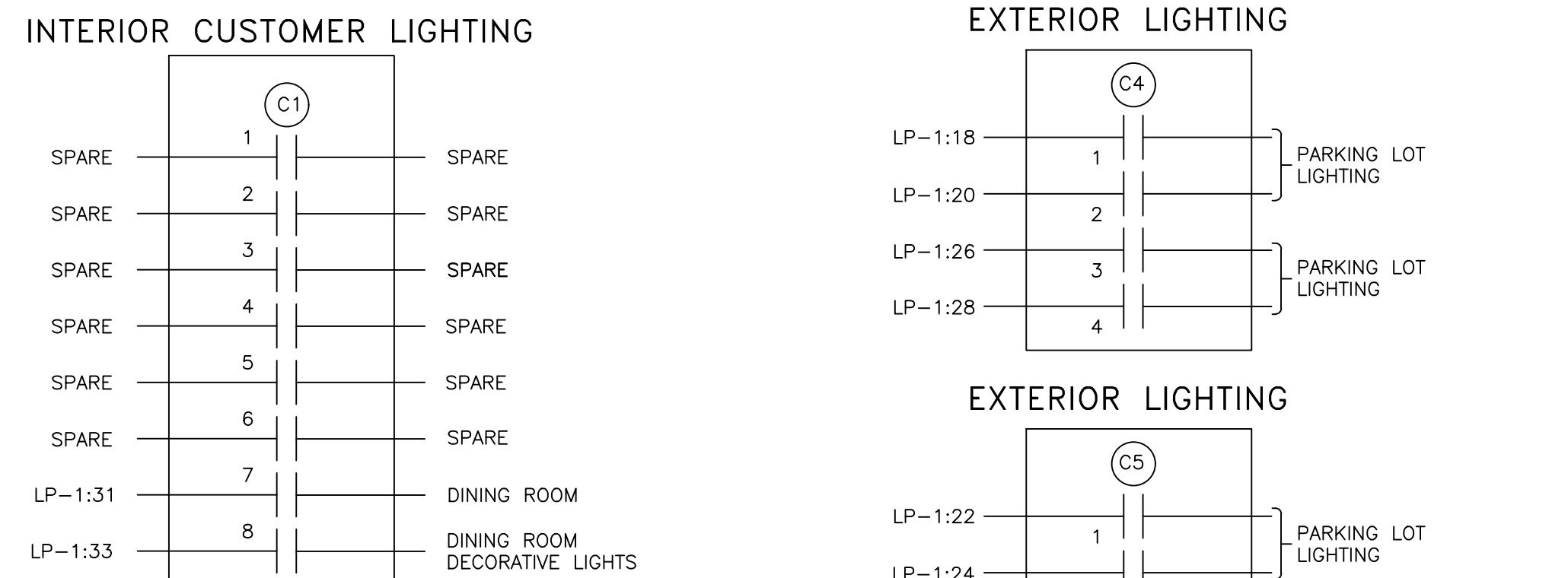
TIT	2	4	DE	V	V	S	SI	CM
SHEET NO.	JAWA 24-0220							
 INTERLOCK DIAGRAMS								



REVISED: 02/24



LIGHTING CONTROL SYSTEM



LIGHTING CONTROL NOTES:

LIGHTING CONTROL NOTES

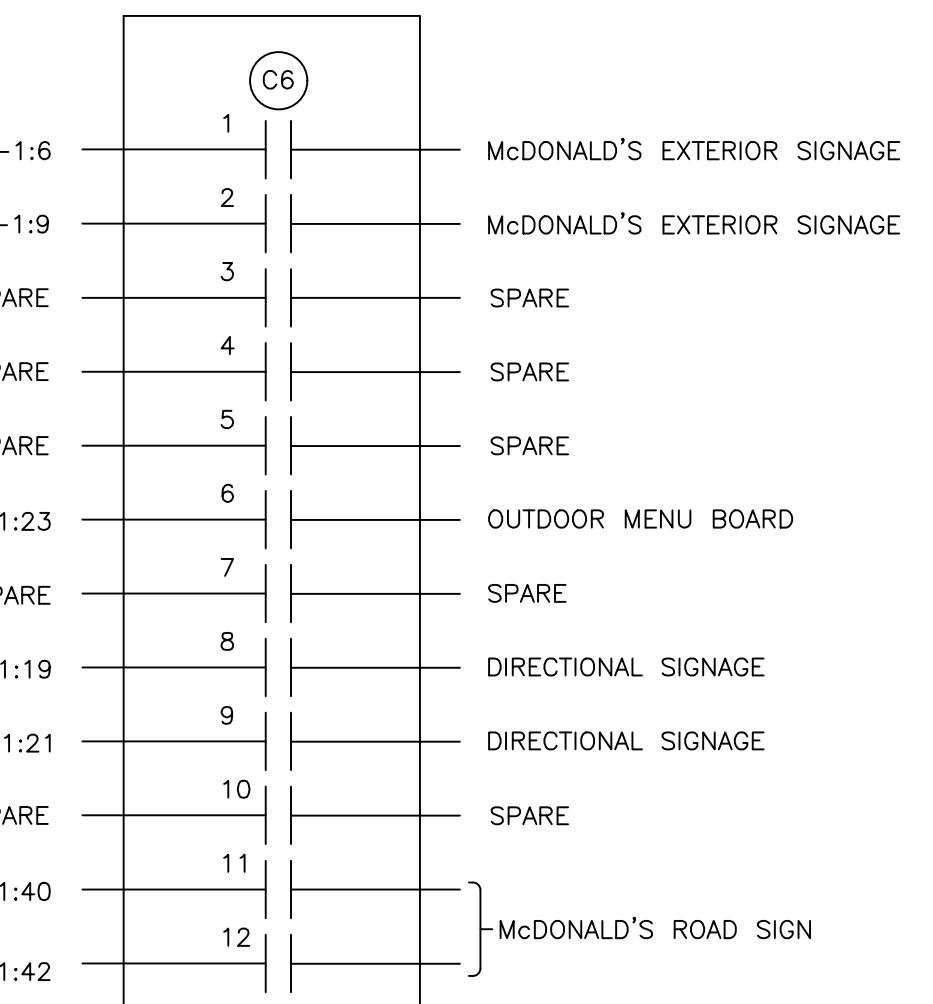
- LC1. CONTACTOR DETAILS ARE DIAGRAMMATIC ONLY AND ARE SHOWN WITH TYPICAL LOADS AND CIRCUIT ASSIGNMENTS. LOADS, CIRCUIT ASSIGNMENTS AND NUMBER OF CONTACTORS MAY VARY BY RESTAURANT LOCATION AND PER BAS SUPPLIERS SYSTEMS. VERIFY EXACT REQUIREMENTS WITH BAS INSTALLATION DETAILS, SITE PLANS, ELECTRICAL PANEL SCHEDULES AND ACM, EC SHALL MAKE ALL MODIFICATIONS AS REQUIRED. FINAL INSTALLATION SHALL BE FULLY NEC AND ENERGY CODE COMPLIANT.
- LC2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, CONNECTIONS, TERMINATIONS, ETC. THAT ARE NOT PROVIDED BY THE BAS SUPPLIER FOR A COMPLETE, FULLY OPERATIONAL AND CODE COMPLIANT LIGHTING CONTROL SYSTEM.

LIGHTING CONTROL INSTALLATION OPTIONS

OPTION 1 CONTACTORS AND CONTACTOR ENCLOSURE. FOR THIS LIGHTING CONTROL SYSTEM SHALL (STANDARD) BE FURNISHED BY THE BAS SUPPLIER AND INSTALLED BY THE ELECTRICAL CONTRACTOR ON SITE FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

OPTION 2 (OPTIONAL) LIGHTING CONTROL CAN BE ACCOMPLISHED VIA UTILIZATION OF A SMART TYPE BREAKER PANEL REPLACING STANDARD PANEL LP-1. PANEL SHALL UTILIZE AN INTEGRAL MOTOR OPERATED CIRCUIT BREAKERS OR AN INTEGRAL CIRCUIT BREAKER/CONTACTOR TYPE COMBINATION DEVICE WITH AN INTEGRAL PROGRAMMING CONTROL MODULE AND SHALL BE ORDERED THROUGH OUR ELECTRICAL EQUIPMENT NATIONAL ACCOUNT PROGRAM (SQUARE-D) THROUGH OUR CONSTRUCTION PURCHASING TEAM.

EXTERIOR SIGNAGE



INTERIOR LIGHTING CONTROL SCHEDULE						
	LOCAL CONTROL	MANUAL ON	PARTIAL ON	MULTI LEVEL	DAYLIGHTING	AUTO OFF
DINING	MANAGERS OFFICE		X		X	X
KITCHEN	MANAGERS OFFICE		X			X
SUPPORT/STOCK	X					X
CREW	X	X		X	X	X
MANAGER	X	X		X	X	X
BATHROOM						X
SMALL STORAGE	X	X			X	
ENTRY VESTIBULE						X

NOTES:

1. LOCAL CONTROL: MANUAL LIGHTING CONTROL THAT PROVIDES ON AND OFF CONTROL IN SPACE. REMOTE LOCATION CONTROL DEVICE MUST BE LABELED TO IDENTIFY CONTROLLED LIGHTING.
2. MANUAL ON: NONE OF THE LIGHTING SHALL BE AUTOMATICALLY TURNED ON.
3. PARTIAL ON: 50% OF THE GENERAL LIGHTING SHALL BE AUTOMATICALLY TURNED ON.
4. MULTI LEVEL: GENERAL LIGHTING SHALL BE FITTED WITH A MANUAL CONTROLLED CONTINUOUS DIMMER.
5. DAYLIGHTING: REQUIRED WHEN PRIMARY AND SECONDARY ZONES CONTAIN 150W OF GENERAL LIGHTING. PHOTOCELL SHALL REDUCE LIGHTING IN RESPONSE TO AVAILABLE DAYLIGHT USING CONTINUOUS DIMMING TO 20% AND OFF.
6. AUTO OFF: ALL LIGHTING INCLUDING LIGHTING CONNECTED TO EMERGENCY CIRCUITS SHALL BE AUTOMATICALLY SHUT OFF WITHIN 20 MINUTES OF OCCUPANTS LEAVING THE SPACE.
7. SCHEDULE OFF: ALL LIGHTING, INCLUDING LIGHTING CONNECTED TO EMERGENCY CIRCUITS, SHALL BE AUTOMATICALLY SHUT OFF DURING PERIODS WHEN THE SPACE IS SCHEDULED TO BE UNOCCUPIED.

EXTERIOR LIGHTING CONTROL SCHEDULE			
	TIME CLOCK	PHOTOCELL	OCCUPANCY SENSOR
POLE LIGHTING	X	X	X
BUILDING MOUNT LIGHTING	X	X	
SIGNAGE	X	X	

NOTES:

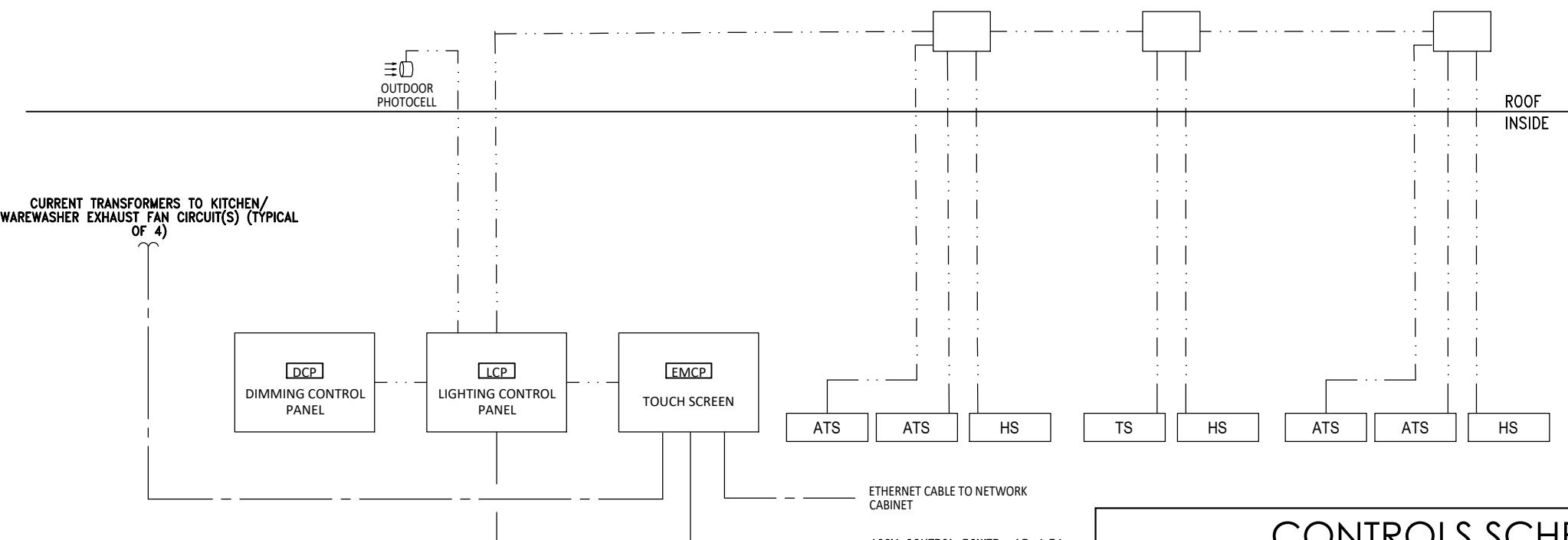
1. TIME CLOCK: LIGHTING SHALL BE AUTOMATICALLY SHUT OFF BETWEEN BUSINESS CLOSING (OP MIDNIGHT) AND BUSINESS OPENING (OP 6AM) WHICHEVER PROVIDES THE SHORTEST OFF DURATION.
2. PHOTOCELL: LIGHTING SHALL BE AUTOMATICALLY TURNED OFF WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.
3. OCCUPANCY SENSOR: LIGHTING SHALL AUTOMATICALLY REDUCE THE CONNECTED LIGHTING POWER BY 50% WHEN NO ACTIVITY HAS BEEN DETECTED IN AREA IN 15 MINUTES. NO MORE THAN 1500W OF LIGHTING PER CONTROL ZONE.

BUILDING AUTOMATION SYSTEM NOTES

- BAS1. THE DIAGRAM SHOWN ABOVE IS SCHEMATIC IN NATURE AND SHOWS THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF THE BUILDING AUTOMATION SYSTEM. EXACT EQUIPMENT REQUIREMENTS AND QUANTITIES WILL VARY PER SITE. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT EQUIPMENT AND INSTALLATION REQUIREMENTS WITH SUPPLIER PRIOR TO SUBMITTING BID FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- BAS2. THE BUILDING AUTOMATION SYSTEM ALSO HAS ADDITIONAL OPTIONS AVAILABLE SUCH AS MONITORING DOOR CONTACTS (RESTROOM & COOLER FREEZER), ENERGY METER, COOLER/FREEZER TEMP, ADDITIONAL OPTIONS MAY BE SELECTED ON CENTRAL PURCHASING PROJECT DETAIL FORM. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT INSTALLATION REQUIREMENTS WITH SUPPLIER PRIOR TO SUBMITTING BID FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- BAS3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE AND LOW VOLTAGE WIRING AND CONNECTIONS, INCLUDING BUT NOT LIMITED TO CONTROL POWER TO ALL BAS COMPONENTS AND POWER CIRCUITRY WIRING OF ALL LIGHTING CONTACTORS. COORDINATE INSTALLATION WITH SITE SPECIFIC BAS INSTALLATION DETAILS PROVIDED BY SUPPLIER.

BUILDING AUTOMATION SYSTEM

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



CONTROLS SCHEDULE			
MARK	DESCRIPTION	MANUFACTURER	MODEL
TS	TEMPERATURE SENSOR	*PROVIDED WITH BAS	
ATS	AVERAGING TEMPERATURE SENSOR	*PROVIDED WITH BAS	
HS	HUMIDITY SENSOR	*PROVIDED WITH BAS	

NOTES:
1. FOR TS, HS AND ATS LOCATIONS, REFER TO M1.2

WIRE LEGEND	
MARK	WIRE/CABLE TYPE
—	CAT 5E
— — —	18 AWG CONDUCTORS

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McDonald's USA, LLC

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DRAWN BY: M&S		STD ISSUE DATE: 2025
REVIEWED BY: JAW		DATE ISSUED: 02/14/2025
DESCRIPTION: 2025 STANDARD BUILDING - BB20 4584-WOOD/WOOD	ITEM NO.: 24-0220	STORY: 1
WOOD BEARING WALLS W/4" BRICK/STONE VENEER STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES	STORY ADDRESS: -20 & UNIVERSITY HILLS BLVD, LANCaster, TEXAS	STORY ID: 042-3651

JAWA 24-0220
E 4.1
LIGHTING CONTROLS

REV

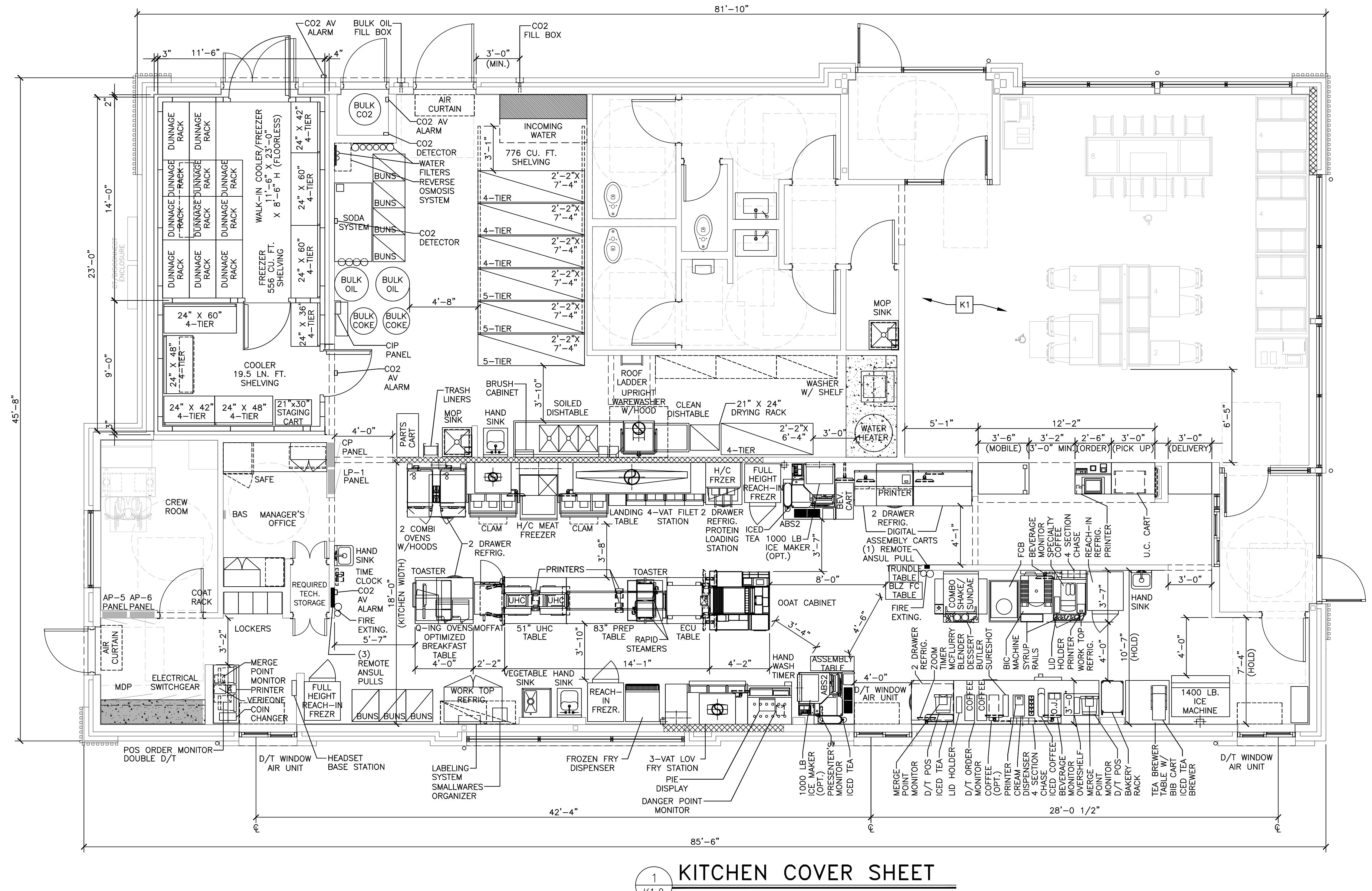
DATE

BY

WATTS			PANEL LP-1						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH											
A	B	C	BRKR	TRP	CCT	CCT	TRIP	BRKR	WATTS	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A	B	C	
0			Spare	20A-1	1	2	20A-1	S	Flag Pole	220										
0			Spare	20A-1	3	4	20A-1	Spare		0										
0			Spare	20A-1	5	6	20A-1	S	Exterior Signage	294										
294			Spare	20A-1	7	8	20A-1	S	Exterior Wall/Soffit Lights DT	0										
193			Flood Lights & Canopy lights	S	20A-1	9	10	20A-1	S	Exterior Wall/Soffit Lights	114									
42			Back of House Sconces	S	20A-1	11	12	20A-1	S	Exterior Wall/Soffit Lights	114									
128			Linear LED Façade Lighting	S	20A-1	13	14	20A-1	L	D/C In Road Sign Base	180									
0			Spare	20A-1	15	16	20A-1	L	Dr Alarm/CO2/Access Control panel	524										
96			Spare	20A-1	17	18	20A-2	L	Lot Lights	480										
96			Directional Sign	S	20A-1	19	20	I			480									
120			Directional Sign	S	20A-1	21	22	20A-2	L	Lot Lights	240									
0			COD lighting	S	20A-1	23	24	I			240									
30			Spare	20A-1	25	26	20A-2	L	Lot Lights	480										
0			Toy Display	S	20A-1	27	28	I			480									
308			Spare	S	20A-1	29	30	20A-2	L	Spare	0									
189			Dining Area Lighting	S	20A-1	31	32	I	L	BAS Controller	300									
880			Pendant/cove lights	S	20A-1	33	34	20A-1	L	Lighting Control Panel	180									
176			Kitchen Lighting	S	20A-1	35	36	20A-1	L	Ext/Egress Lighting	80									
520			Restroom Lighting	S	20A-1	37	38	20A-1	S	Ext/Egress Lighting	2496									
0			Support Area Lighting	S	20A-1	39	40	60A-2	S	Mcd's Road Sign	2496									
			Spare	S	20A-1	41	42	I	I		2496									
										Total Connect	2062	5409	4997							
										Connect Amps	35	Amps								
										Demand Amps	43	Amps								

WATTS			PANEL AP-1						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH										
A	B	C	BRKR	TRP	CCT	CCT	TRIP	BRKR	WATTS	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A	B	C
1620			Dco-manager's office/crew room	20A-1	1	2	20A-2	G	Coffee brewer (presenter's booth)	1612									
720			Dco-General Purpose	G	20A-1	3	4	I			1612								
0			Spare	20A-1	5	6	20A-1	G	ABS (phase c. presenter's booth)	1788									
120			Safe (mn) DCO Gen Purp	L	20A-1	7	8	20A-1	G	Juice disp/ coffee cream disp	840								
240			Remote Order Battery	20A-1	9	10	20A-1	G	CO2 Detector	120									
960			Merge/audio sys/drn/mDev	G	20A-1	11	12	20A-1	G	Automated beverage sys	600								
1800			Washer	15A-1	13	14	20A-2	G	Coffee Brewer (front counter)	1612									
120			Hand Held Order	20A-1	15	16	I	I		1612									
2246			Computer Room (TF/1)	G	30A-2	19	20	I	I		1560								
1500			3-Vat fryer hood interlock	20A-1	23	24	20A-1	G	3-Vat fryer hood interlock	1176									
1320			Reach in Freezer-SW	G	20A-1	25	26	20A-2	H	Ice Machine Remote Cond 1400lb	104								
1080			Frozen fry dispenser (frt wall)	G	20A-1	27	28	I	I		104								
2112			4-Vat fryer hood interlock	20A-1	29	30	20A-1	G	Reach in Freezer-SW	1320									
1500			Fry Bagging Station	L	20A-1	31	32	15A-3	H	Ice Machine Remote Cond 1000lb	1332								
60			Hand Wash Timers	G	20A-1	33	34	I	I		1332								
1320			Ice Reach in Freezer-SW	G	20A-1	35	36	I	I		1332								
132			Ice mach - 1000 lb (self serve)	15A-1	37	38	15A-3	H	Ice Machine Remote Cond 1000b	1332									
1656			4-Vat fryer hd interlock	20A-1	39	40	I	I		1332									
									Total Connect	16290	13950	16776							
									Connect Amps	131	Amps								
									Demand Amps	91	Amps								

WATTS			PANEL AP-1						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH										
A	B	C	BRKR	TRP	CCT	CCT	TRIP	BRKR	WATTS	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A	B	C
1620			Dco-manager's office/crew room	20A-1	1	2	20A-2	G	Coffee brewer (presenter's booth)	1612									
720			Dco-General Purpose	G	20A-1	3	4	I											



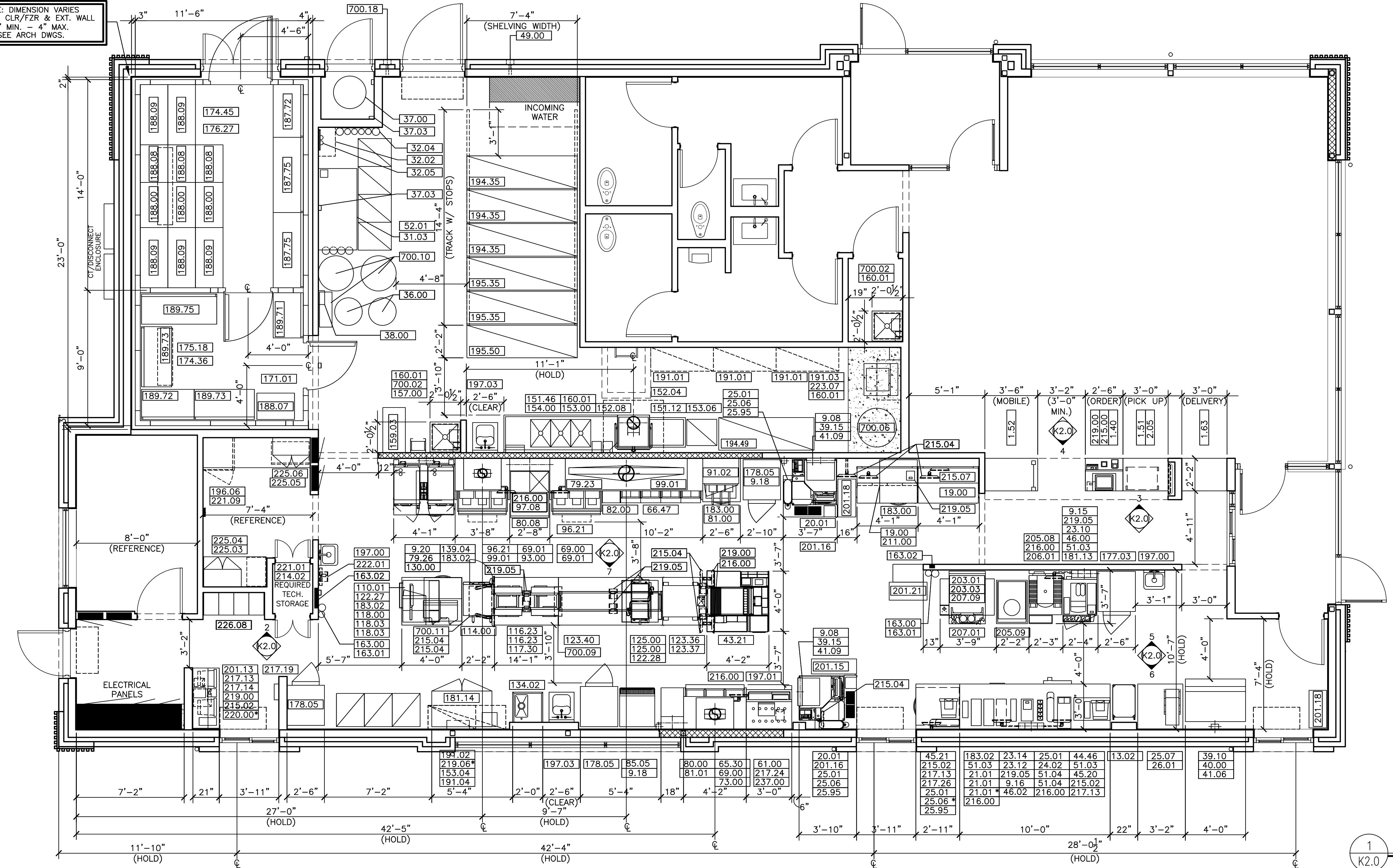
KITCHEN COVER SHEET

KEYED NOTES

K1 CUSTOMER KIOSK & DECOR LAYOUT FOR
REFERENCE ONLY. VERIFY KIOSK PLACEMENT PER
USRD APPROVED KIOSK REVIEW

SHEET NO.: 1		McDonald's USA, LLC	
2025 STANDARD BUILDING – BB20		JAW	
4584-WOOD/WOOD		STD ISSUE DATE	2025
DESCRIPTION		REVIEWED BY	JAW
WOOD BEARING WALLS W/4" BRICK/STONE VENEER		DATE ISSUED	02/14/2025
WOOD ROOF TRUSS FRAMING			
STUCCO/BATTEN/METAL/STONE/BRICK EXTERIOR FINISHES			
SITE ID	SITE ADDRESS		
042-3651	NEC I-20 & UNIVERSITY HILLS BLVD, LANCASTER TEXAS		
K1.0		REV DATE	
KITCHEN COVER SHT		DESCRIPTION	
JAWA 24-0220		BY	

NOTE: DIMENSION VARIES
BETWEEN CLR/FZR & EXT. WALL
2" MIN. - 4" MAX.
SEE ARCH DWGS.



DRAWING NOTES

PREPARED BY:

McDonald's USA, LLC

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JMW Architects, Inc.

Jimmy Williams, Architect

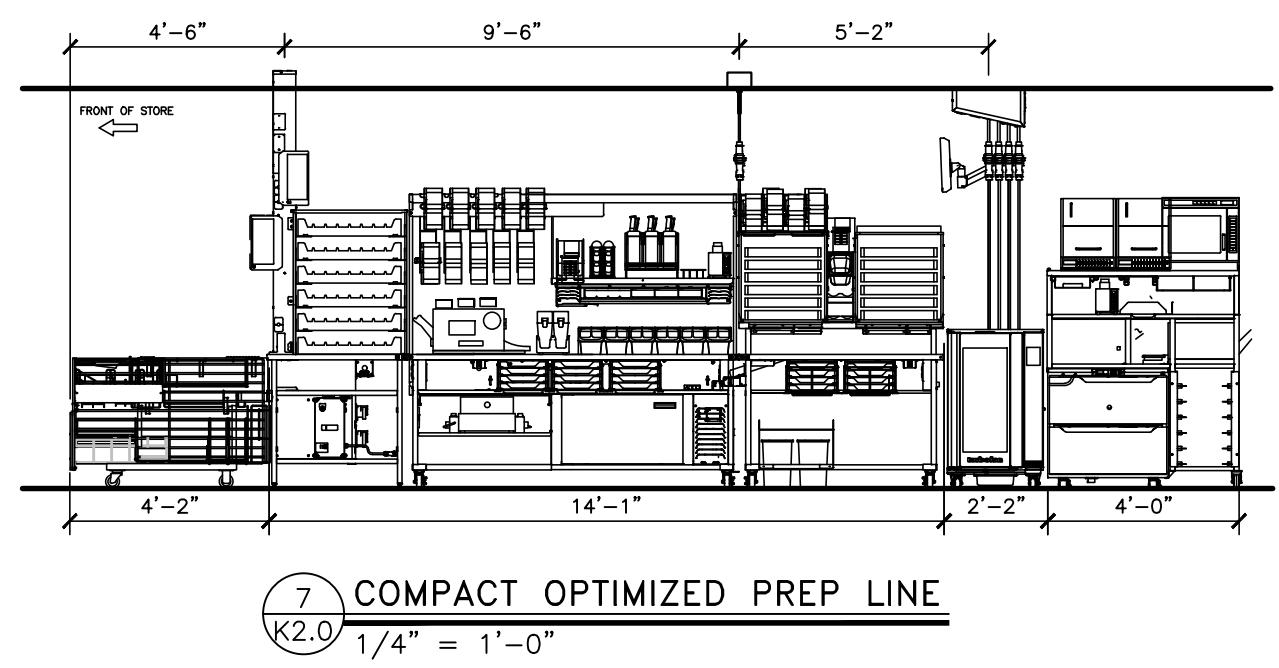
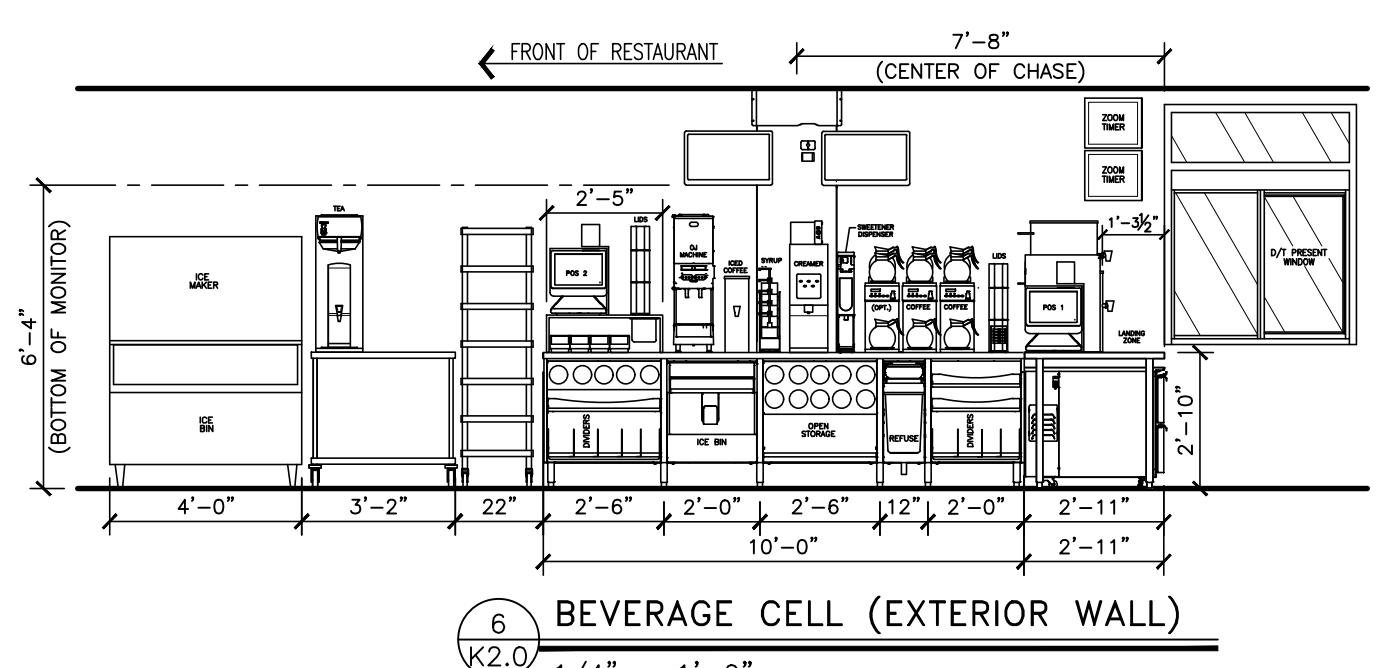
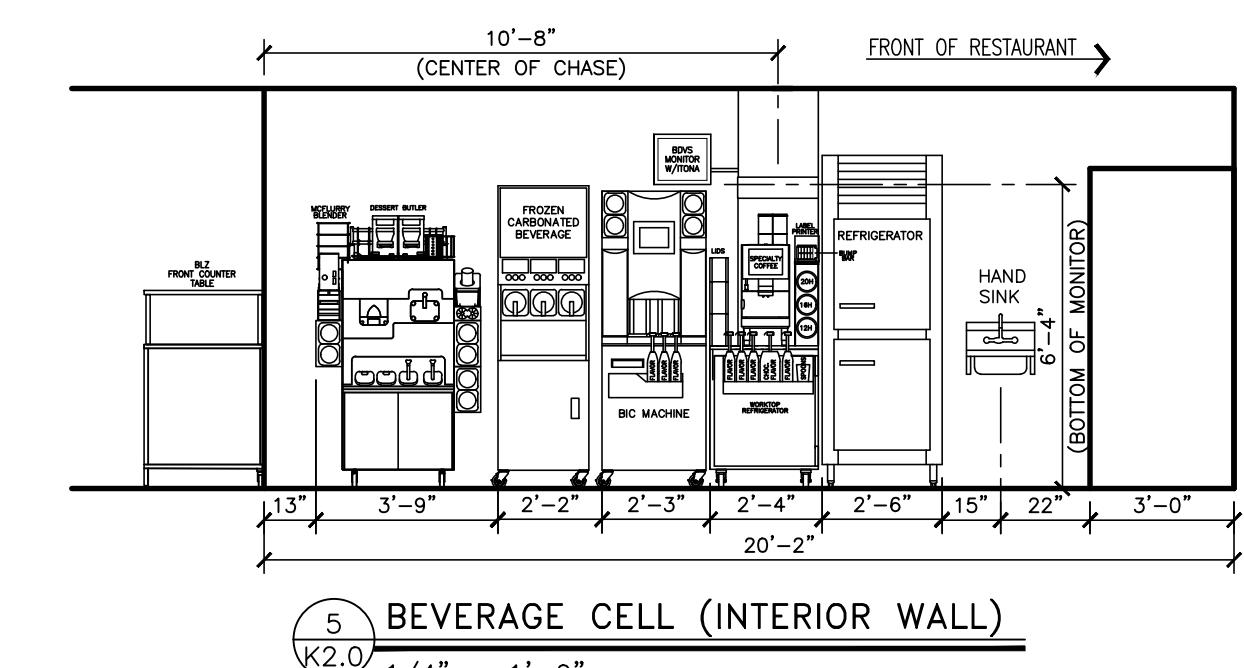
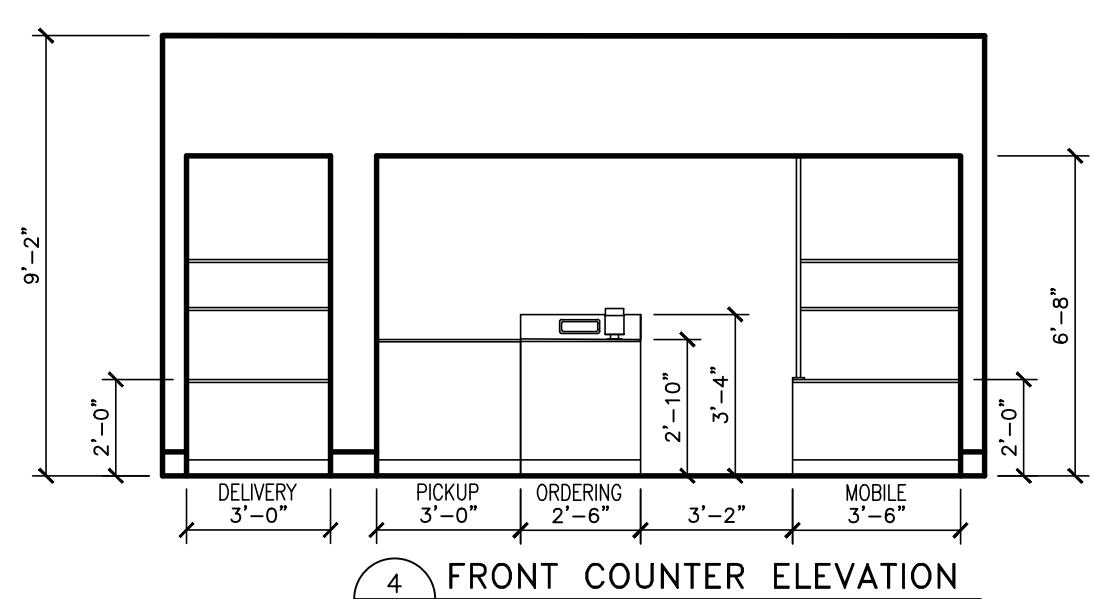
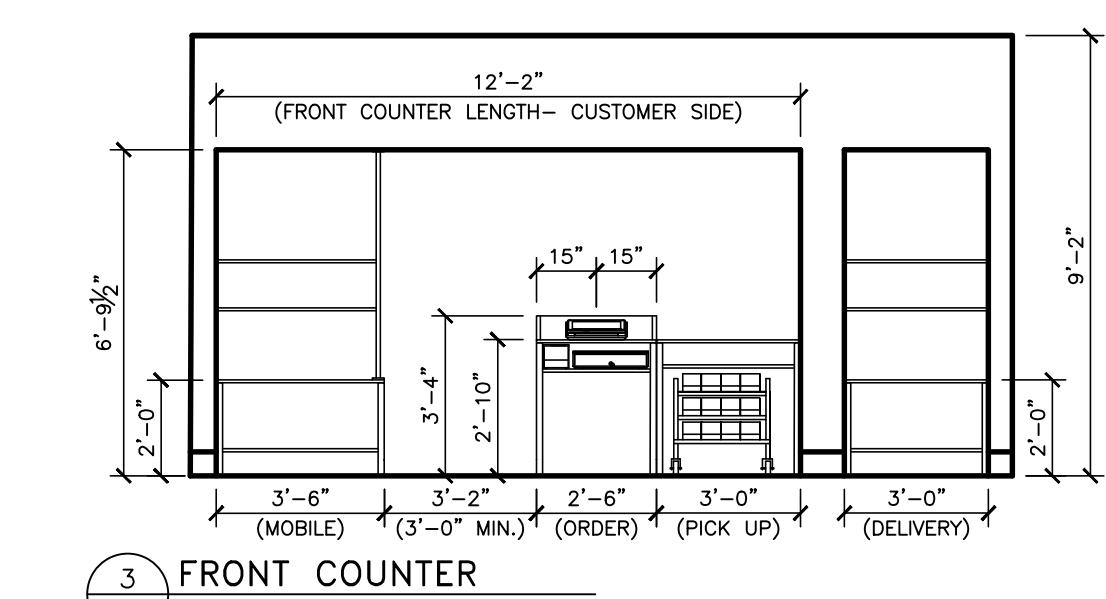
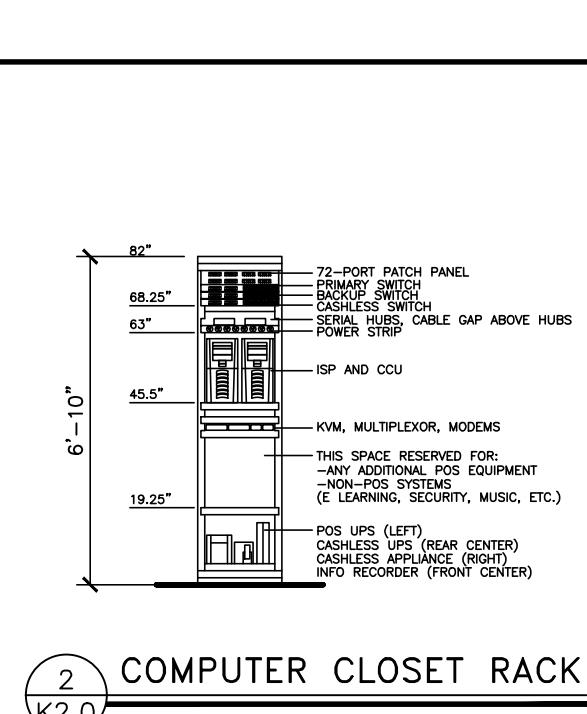
REGISTRATION NO. 1926

STATE OF TEXAS

BY:

KITCHEN EQUIPMENT PLAN

1
K2.0
1/4" = 1'-0"



SHEET NO.	TITLE	DRAWN BY	REVIEWED BY	DATE ISSUED
2025 STANDARD BUILDING - BB20	2025 STANDARD BUILDING - BB20	JAW	JAW	2025
4584-WOOD/WOOD				
DESCRIPTION	WOOD BEARING WALLS W/4" BRICK/STONE VENEER			
	WOOD ROOF TRUSSES FRAMING			
	STUCCO/BATEN/METAL/STONE/BRICK EXTERIOR FINISHES			
SITE ID	NEC I-20 & UNIVERSITY HILLS BLVD, LANCaster, TEXAS			
042-3651				

JAWA 24-0220
K2.0
KITCHEN PLAN

EQUIPMENT SCHEDULE										EQUIPMENT SCHEDULE											
X	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS	X	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
1.40	1	1	SERVICE POD - 30"	DECOR	SEE PLAN	-	2	GC	-		183.00	2	REFRIGERATOR/FREEZER - 2 DRAWER BASE - 30" W X 33" H	KES	18012498	SA4044	7	KES	-		
1.51	1	1	PICKUP POD - 36"	DECOR	SEE PLAN	-	2	GC	-		183.02	3	REFRIGERATOR/FREEZER - 2 DRAWER BASE - 30" W X 30" H	KES	18021304	SA4044	7	KES	-		
1.52	1	1	PICKUP POD - 42"	DECOR	SEE PLAN	-	2	GC	-		187.72	1	FREEZER SHELVING 24" x 42" x 74" H. - 4-TIER	ISS SHELVING	FSMSA742442E	-	2	KES	-		
1.63	1	1	McDELIVERY PICKUP COUNTER	DECOR	SEE PLAN	-	2	GC	-		187.75	2	FREEZER SHELVING 24" x 60" x 74" H. - 4-TIER	ISS SHELVING	FSMSA742460E	-	2	KES	-		
2.05	1	1	UNDER COUNTER CART - 24"W x 18"D FRONT COUNTER	INTERMETRO	UC18-DMS	-	2	KES	-		188.00	3	DUNNAGE RACK 22" x 36"	INTERMETRO	HP2236PD	-	2	KES	-		
9.08	2	1	UTILITY CHASE - ICE MAKER ON ABS VERSION	KES	5"x8"x23"	-	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES		188.07	1	UNIVERSAL STAGING CART	ISS SHELVING	WST1384Y	-	2	KES	-		
9.15	1	1	UTILITY CHASE - FFD INTERIOR WALL	KES	20"x5"x76"	-	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS, CO2 AND WATER		188.08	3	DUNNAGE RACK 22" x 30"	INTERMETRO	HP2230PD	-	2	KES	-		
9.16	1	1	UTILITY CHASE - FFD EXTERIOR WALL	KES	20"x5"x76"	-	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS AND WATER		188.09	5	DUNNAGE RACK 22" x 48"	INTERMETRO	HP2248PD	-	2	KES	-		
9.18	2	1	UTILITY CHASE - WALL VERSION	KES	4"x4"x82"	-	2	KES	CHASE FOR BULK OIL LINES, MOUNT AT 2'-0"		189.71	1	COOLER SHELVING 24" x 36" x 74" H. - 4-TIER	ISS SHELVING	FSMSA742436E	-	2	KES	-		
9.20	1	1	UTILITY CHASE - COMBI CELL	KES	4"x8"x84"	-	2	KES	CHASE FOR BUYOUT RECEPTACLES AND WATER		189.72	1	COOLER SHELVING 24" x 42" x 74" H. - 4-TIER	ISS SHELVING	FSMSA742442E	-	2	KES	-		
13.02	1	1	BAKER RACK	KRISPY KREME	18"x26"x65"	-	2	SUPPLIER	-		189.73	2	COOLER SHELVING 24" x 48" x 74" H. - 4-TIER	ISS SHELVING	FSMSA742448E	-	2	KES	-		
19.00	2	1	DIGITAL ASSEMBLY CART - 48"	INTERMETRO	MCDAAC-48	-	2	KES	-		189.75	1	COOLER SHELVING 24" x 60" x 74" H. - 4-TIER	ISS SHELVING	FSMSA742460E	-	2	KES	-		
20.01	2	1	AUTOMATED BEVERAGE SYSTEM 2.0	IMI CORNELIUS	621058590LON	-	-	KES	INSTALLATION KIT INCLUDES STAINLESS STEEL CHASE & DATA LINE		191.01	3	VALANCE SHELVING - 18" x 48"	INTERMETRO	M1848C-MP	-	2	KES	UNLESS OTHERWISE NOTED		
21.01	3	1	COFFEE BREWER (THERMAL POTS)	BUNN-O-MATIC	AXIOM-DV-3	E32066	4	KES	W/ELECTRONIC CONTROLLER FOR CONVERSION TO LOW OR HIGH VOLTAGE		191.02	1	VALANCE SHELVING - 18" x 60"	INTERMETRO	M1860C-MP	-	2	KES	UNLESS OTHERWISE NOTED		
23.10	1	1	ESPRESSO BREWER	FRANKE	FM850	-	4	KES	-		191.03	1	VALANCE SHELVING - 18" x 30"	INTERMETRO	M1830C-MP	-	2	KES	UNLESS OTHERWISE NOTED		
23.12	1	1	COFFEE CREAM DISPENSER	SURESHOT	AC110-PC-51	E217698	20	KES	-		191.04	1	VALANCE SHELVING - 18" x 36"	INTERMETRO	M1836C-MP	-	2	KES	UNLESS OTHERWISE NOTED		
23.14	1	1	SUGAR/SWEETENER DISPENSER	SURESHOT	AC2-GP-1-G38	E217698	18	KES	-		194.35	3	DRY SHELVING 26" x 88" x 84" H. - 4-TIER MOBILE	DENSTOR	-	-	2	KES	-		
24.02	1	1	JUICE DISPENSER	BUNN-O-MATIC	JDF-2S	-	18	KES	-		194.49	1	DRY SHELVING 26" x 76" x 84" H. - 4-TIER FIXED	DENSTOR	-	-	2	KES	-		
25.01	4	1	SLIMLINE ICED BEVERAGE DISPENSER	BUNN-O-MATIC	TDO-N	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET		195.35	2	DRY SHELVING 26" x 88" x 84" H. - 5-TIER MOBILE	DENSTOR	-	-	2	KES	-		
25.06	3	1	SLIMLINE ICED BEVERAGE DISPENSER - SHORT	BUNN-O-MATIC	TDO-N LP	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET		195.50	1	DRY SHELVING 26" x 88" x 84" H. - 5-TIER	DENSTOR	-	-	2	KES	-		
25.07	1	1	INFUSION TEA BREWER - MID	BUNN-O-MATIC	ITCB-EDW	E32066	4	KES	PROVIDED WITH BREWER, INSTALLATION KIT AND TDO-N BOOSTER		196.06	1	SAFE - STANDARD BLDG. - LEFT HINGE	NKL	BSD4125FGXL-MC	-	-	OWNER	-		
25.95	3	1	SLIMLINE ICED BEVERAGE DISPENSER - 2 TIER	KES	-	-	2	KES	-		197.00	2	STAINLESS STEEL HAND SINK	ADVANCE TABCO	7-PS-61	-	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7-PS-11) WHEN REQUIRED BY LOCAL CODE	
26.01	1	1	TEA BREWER TABLE - 36"X36"	ISS SHELVING	WST1758C	-	2	KES	-		197.01	1	HAND WASH TIMER	NATIONAL CONTROLS	TMD-1715-120	E53595	-	KES	-		
31.03	1	1	SODA SYSTEM PACKAGE B.I.B. (RECIRCULATING - 3 TOWERS) - REMOTE	MULTIPLEX	50MR04	SA44632	18	KES	-		197.03	2	STAINLESS STEEL HAND SINK - ADA	ADVANCE TABCO	7-PS-26	-	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7-PS-11) WHEN REQUIRED BY LOCAL CODE	
32.02	1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM - TANKLESS	EVERPURE	MRS-600HE	-	-	KES	FOR COFFEE MAKER, ESPRESSO MACHINE, AND RAPID BUN STEAMER		197.04	1	VALANCE SHELVING - 18" x 36"	INTERMETRO	M1836C-MP	-	-	KES	-		
32.04	1	1	WATER FILTRATION SYSTEM	EVERPURE	EV9337-26	-	-	KES	-		197.05	3	DRIVE-THRU CASH STAND - 21" D x 48" W	INTERMETRO	DT48-8	-	2	KES	SOLID WORK TOP, WIRE SHELVES		
32.05	1	1	WATER FILTRATION SYSTEM	EVERPURE	EV9272-24	-	-	KES	FOR COMBI OVENS AND STAGING CABINET		197.11	1	READY NEXT DRIVE-THRU ASSEMBLY CART - 12" D x 36" W	INTERMETRO	DTIPC-36	-	2	KES	-		
36.00	2	1	BULK COKE	CHART INDUSTRIES	10667511	-	18	MANUFACTURER	SYRUP LINES BY CHART INDUSTRIES		197.16	1	DRIVE-THRU ABS CART	KES	-	-	2	GC	ABS DRINK STAGING CART WITH TROUGH		
37.00	1	1	BULK CO2 - 750 LB.	CHART INDUSTRIES	CARBO-MAX 750	-	-	MANUFACTURER	-		197.18	2	CBB STAGING CART	INTERMETRO	MCD-CBB	-	2	KES	-		
37.03	2	1	CO2 SAFETY SYSTEM	SEE RMKS	-	-	KES	SEE MECHANICAL DRAWINGS	INCLUDES DETECTOR AND (4) AV ALARMS		197.21	1	BLZ FRONT COUNTER TABLE - 30" D x 14" W	INTERMETRO	MCD1430-BLZM	-	-	KES	W/ CASTERS AND OVERSHELF		
38.00	1	1	CLEAN IN PLACE PANEL	CHART INDUSTRIES	10667431	-	18	MANUFACTURER	MOUNT 6" W x 7" BOX @ 6'-0" AFF TO BOX CENTER LINE		197.24	1	HEAT TREAT COMBINATION SHAKES/SUNDAS	CARPIGANINI	K3	SA4203	6	KES	SUPPLIED WITH CONE DISPENSER AND 7'-6" LONG CORD		
39.10	1	1	ICE MACHINE - 1400 LB.	MANITOWOC	IYT1500N3 / D970	SA4027	12	KES	SEE HEADMASTER KIT K00221		197.25	2	CUP/CONE DISPENSER	KES	-	-	2	KES	-		
39.15	2	1	ICE MACHINE - 1000 LB.	MANITOWOC	IBT1020C-161	SA4027	12	KES	CONDENSER: CVDT1200		197.26	1	CUP/CONE DISPENSER	MULTIPLEX	MA-8-2	SA12070	6	KES	-		
40.00	1	1	ICE MACHINE CHASE	KES	4"x6"x48"	-	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES		197.27	1	FROZEN BEVERAGE DISPENSER	IMI CORNELIUS	VIFER 3	SA2128	6	KES	-		
41.06	1	1	ICE MACHINE REMOTE CONDENSER - 1400 LB.	MANITOWOC	JCT-1500	SA4027	12	KES	-		197.28	1	SPECIALTY BEVERAGE STANDOFF SHELF	KES	-	-	2	KES	MOUNT SHELF @ 2'-6" AFF		
41.09	2	1	ICE MACHINE REMOTE CONDENSER - 1000 LB.	MANITOWOC	CVDT1200-263A	SA4027	12	KES	-		197.29	1	BLENDER - RAIL MOUNT - MCFLURRY	VITAMIX	056385	-	8	KES	SUPPLIED MOUNTING BRACKETS		
43.21	1	1	OPTIMIZED ORDER ASSEMBLY TABLE	KES	90001	E152097	2	KES	-		197.30	1	DESSERT BUTLER	KES	-	-	2	KES	-		
44.46	1	1	SMALL RISER SHELF - 18" x 30"	FRANKE	18006010	-	2	KES	-		197.31	1	DELIVERY TABLET	APPLE	iPAD	-	-	KES	QUANTITY DEPENDENT UPON NUMBER OF DELIVERY PARTNERS		
45.20	1	1	MODULAR BEVERAGE CABINET - 10"-0"	KES	-	-	2	KES	-		197.32	1	TECHNOLOGY RACK	BY OWNER	OEM</						