

- CONSTRUCTION TO BE REMOVED THAT IS NOT INTEGRAL TO STRUCTURAL SYSTEM PRIOR TO DEMOLITION. 2. ALL DIMENSIONS SHOWN AS EXISTING SHOULD BE FIELD VERIFIED BY CONTRACTOR PRIOR TO DEMOLITION. VERIFY ALL DEMOLITION WORK W/ NEW CONSTRUCTION & INSTALLATION DRAWINGS PRIOR TO BEGINNING CONSTRUCTION. 3. DEMOLITION CONTRACTOR TO COORDINATE & REVIEW ALL CONSTRUCTION DOCUMENTS & DETERMINE THE EXTENT OF DEMOLITION WORK & BECOME FAMILIAR WITH THEM THOROUGHLY BEFORE PERFORMING ANY DEMOLITION WORK. BY THE ACT OF STARTING DEMOLITION, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE THE NECESSARY ALLOWANCES IN PREPARING THE BID. 4. ELECTRICAL DEMOLITION NOTE: REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL DEMOLITION NOTES 5. VERIFY DISPOSAL OF ALL FURNISHINGS, MILLWORK, LIGHTING FIXTURES, ETC. TO BE REMOVED W/ OWNER. ALL ITEMS TO BE DISPOSED SHALL BE DISPOSED OF OFF-SITE AND IN AN EXPEDITIOUS MANNER. 6. ROOFING CONTRACTOR TO FIELD INSPECT EXISTING ROOF FOR WEATHER TIGHTNESS & PROPER DRAINAGE PRIOR TO BID. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING ROOF CONDITION AND FOR INCLUDING ANY NECESSARY REPAIR COSTS IN BID SAWCUT & REMOVE EXISTING SLABS AS REQUIRED FOR UNDERGROUND ELECTRICAL & PLUMBING LINES. REFER TO
- PLUMBING, ELECTRICAL & KITCHEN DRAWINGS FOR ALL SAWCUTS # TRENCHING WORK REQUIRED. ALL CONCRETE FLOOR WORK TO BE FINISHED FLUSH WITH EXISTING FLOOR. DOWEL NEW SLABS TO EXISTING W/ #4 REBAR @ 24" O.C. EACH SIDE (STAGGERED) REBAR TO EXTEND 6" INTO EXISTING SLAB & ACROSS CUT OPENING, SECURE REBAR INTO EXISTING SLAB W/ EPOXY GROUT, REPLACE OR REPAIR ANY VAPOR BARRIERS DISTURBED DURING EXCAVATIONS.

- ADJACENT CONSTRUCTION & FINISHES.
- 10. THIS PLAN INDICATES A GENERAL SCOPE OF WORK TO BE PERFORMED AND DOES NOT RELIEVE THE CONTRACTOR TO COMPLETE THE BUILDING MODIFICATIONS AS SHOWN AND REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL & HVAC WORK. 11. IF CONTRACTOR ENCOUNTERS ANY HAZARDOUS MATERIALS
- DURING DEMOLITION OR CONSTRUCTION, GC SHALL IMMEDIATELY SUSPEND WORK & NOTIFY THE MCDONALD'S AREA CONSTRUCTION MANAGER BEFORE PROCEEDING.
- IN STRICT ACCORDANCE WITH OSHA REGULATIONS.
- DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO THE DEMOLITION AND REMOVAL OF ANY WALLS, COUNTERS, FURNITURE, BULKHEADS, DOORS, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AND DUCTWORK AS SHOWN ON THE DRAWINGS OR AS REQUIRED TO COMPLETE THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB. 14. REMOVE ANY SINKS, WATER CLOSETS, URINALS, LAVATORIES
- ABANDONED SUPPLY & WASTE LINES. PATCH & SEAL ALL FLOOR PENETRATIONS. SEE MECHANICAL & PLUMBING DRAWINGS FOR DETAILED DEMOLITION NOTES. 15. WHEN UTILITIES ARE REMOVED, CAP & SEAL A MINIMUM OF 8" BELOW FINISH FLOOR OR A MINIMUM OF 6" ABOVE FINISH CEILING,

SYMBOL LEG	END:		
	SECTION TAG	4	DOOR TAG
	DETAIL TAG	DINING ROOM	ROOM NAME & NUMBER
€LEV. Ø'-Ø"	ELEVATION TAG		PARTITION TAG
1)DETAIL		DRAWING TIT	LE

12. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER \$

13. THE SUB-CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF

FLOOR DRAINS, NOTED ON DRAWINGS AS WELL AS ALL ASSOCIATED PLUMBING ACCESSORIES. CAP, PLUG ALL

1CDONALE 2023 Remodel Building BUILDING INFORMATION:

ADDRESS: STATE SITE CODE:

STREET ADDRESS: COUNTY:

STATE:

BUILDING CODE BUILDING CODE EDITION: MECHANICAL CODE EDITION: ELECTRICAL CODE EDITION: PLUMBING CODE EDITION:

BUILDING DATA: OCCUPANCY:

CONSTRUCTION TYPE NUMBER OF STORIES:

EXISTING BUILDING AREA: AREA OF WORK: PROPOSED BUILDING AREA: UNCHANGED ALLOWABLE (TABLE 503)

Ø24-ØØ51 1881 STATE LINE ROAD KANSAS CITY JACKSON MISSOURI

> INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 NATIONAL ELECTRICAL CODE 2017 UNIFORM PLUMBING CODE: 2018

USE GROUP A2 VB (NON-SPRINKLERED)

5.757 S.F. 870 S.F. (NO CHANGE IN OCCUPANCY) 6*000* S.F.

DESIGNER OF RECORD:

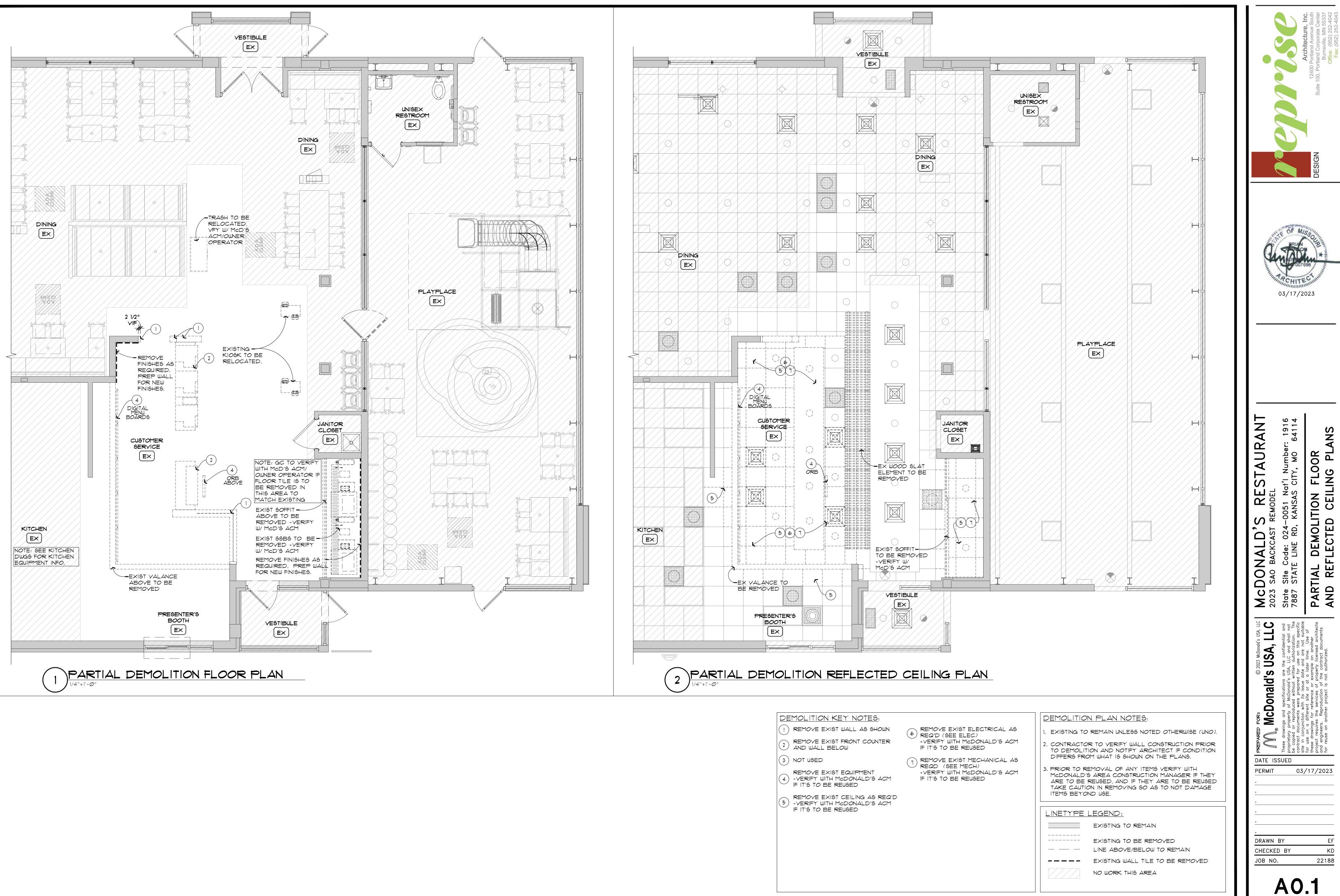
DISCIPLINE:	NAME:	ADDRESS	LICENSE #:
ARCHITECT:	Reprise Design, Inc. Brian Johnson	12400 Portland Ave., Suite 100 Burnsville, MN 55337	A-2007007696
	CONTACT: Kristi Donahue 952-562-3130		
MECHANICAL:	Emanuelson-Podas, Inc. Michael A. Webert	7705 Bush Lake Road Edina, MN 55439	2004000011
	CONTACT: Wendy Wenborg 952-540-4047		
PLUMBING:	Emanuelson-Podas, Inc. Michael A. Webert	7705 Bush Lake Road Edina, MN 55439	2004000077
	CONTACT: Wendy Wenborg 952-540-4047		
ELECTRICAL:	Emanuelson-Podas, Inc. Matthew W. Fults	7705 Bush Lake Road Edina, MN 55439	2004005366
	CONTACT: Wendy Wenborg 952-540-4047		

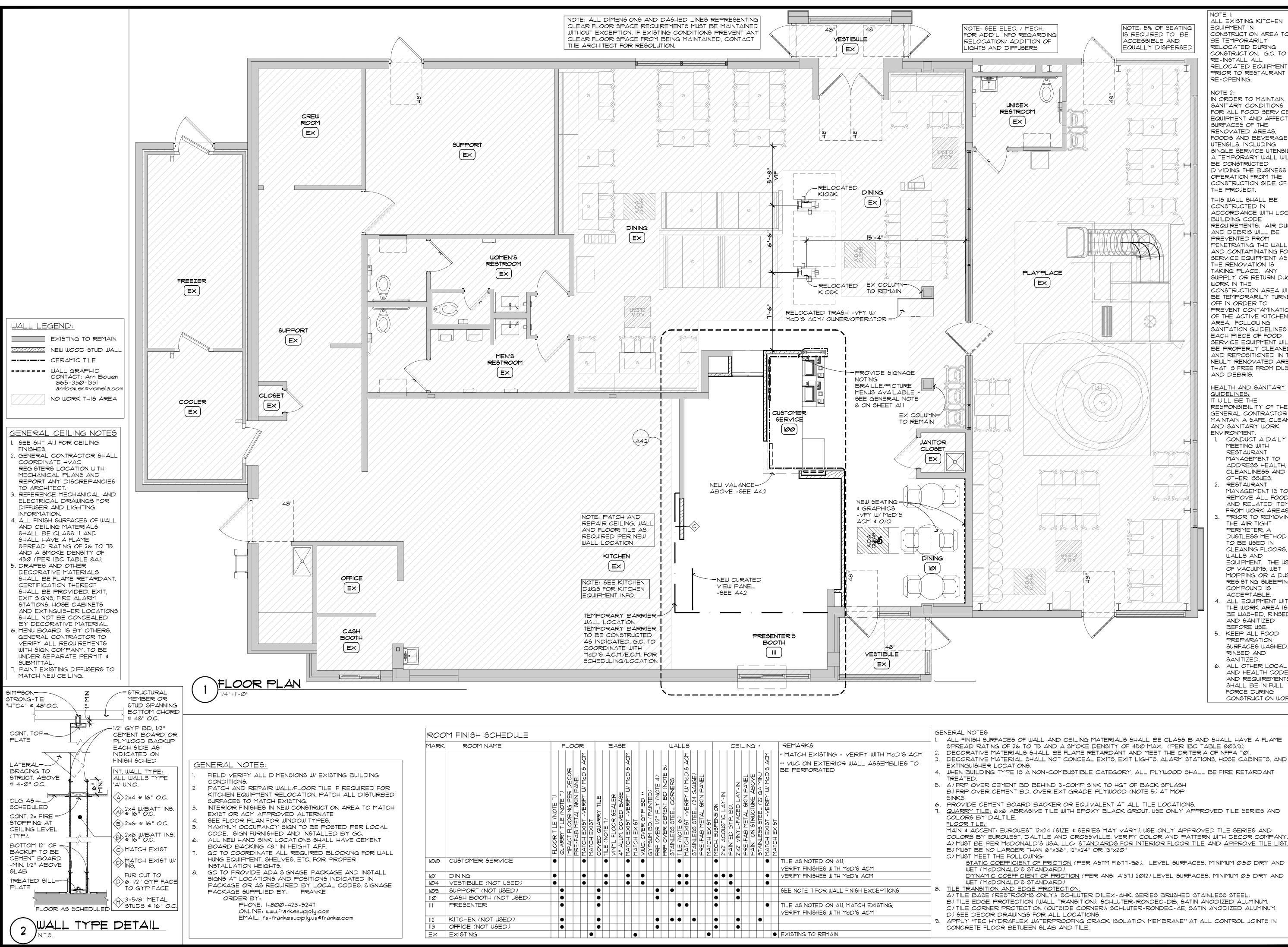
MCDONALD'S CONSTR. PROJ. MANAGER: CONTACT: Grant Parker 706-990-9569

DRAWING INDE> REVISIONS TI.Ø COVER & CODE SHEET ARCHITECTURAL AØ.1 PARTIAL DEMOLITION FLOOR AND REFLECTED CEILING PLANS FLOOR PLAN, DETAILS & A1.1 ROOM FINISH SCHEDULES A4.2 ENLARGED FRONT COUNTER PLAN & DETAILS MECHANICAL MØ,1 DEMOLITION CEILING PLAN M1.1 CEILING AND ROUGH-IN PLAN M41 NOTES, SCHEDULES AND DETAILS PLUMBING PO! DEMOLITION, ROUGH-IN, DETAIL, AND ISOMETRIC PLANS P2.1 NOTES AND SCHEDULES ELECTRICAL DEMOLITION LIGHTING AND ROUGH-IN PLAI EØ. ELØ POS RISER DIAGRAM E1.1 LIGHTING FLOOR PLAN & LIGHTING FIXTURE SCHEDULE ROUGH-IN FLOOR PLAN, DETAIL AND E2.1 SCHEDULE E2.3 ROUGH-IN DETAILS & SCHEDULE NOTES, SCHEDULES AND DETAILS E4.1 KITCHEN KITCHEN COVER SHEET K-1 KITCHEN EQUIPMENT & ROUGH-IN PLANS K-2 K-3 KITCHEN EQUIPMENT SCHEDULES **TAURAN** Ś RE S **NA** BACk O∛ Ω ŷ U M **M** LLC USA, ົຼິ McDonald' DATE ISSUED PERMIT IF YOU HAVE ANY QUESTIONS REGARDING THESE DRAWN BY PLANS, PLEASE CONTACT THE ARCHITECTURAL CHECKED BY PROJECT MANAGER: JOB NO. Kristi Donahue

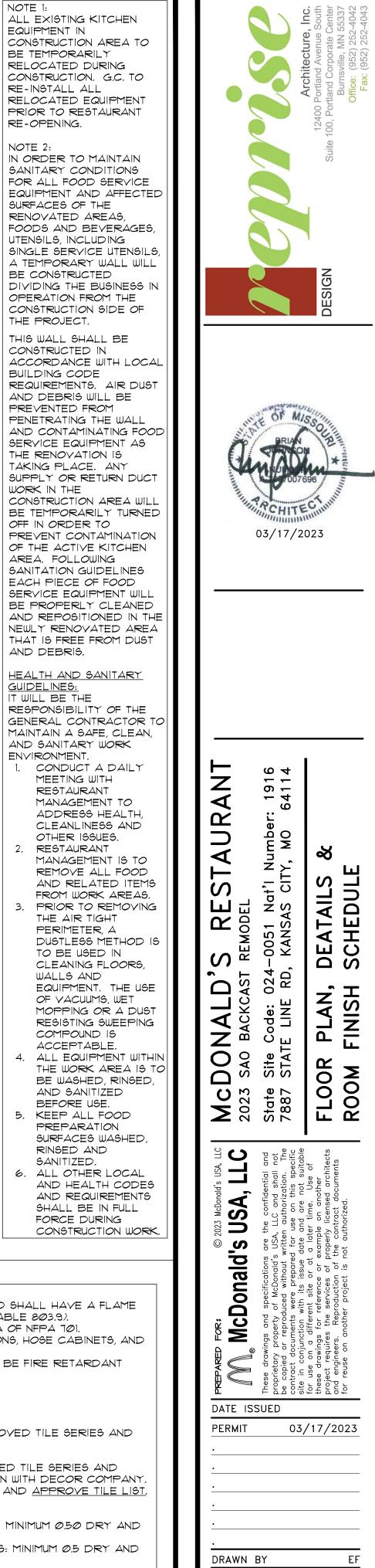
03/17/2023 916 114 - 4 ο Σ Σ Nat'l As cit EET SHI 051 ANSA δY DE 024 RD Ο Ō ode: LINE Site STAT ER State 7887 Ó Ō 03/17/2023 FF KD 22188 **T1.0**

PHONE: 952-562-3730 EMAIL: kdonahue@reprisedesign.com





H SCHEDULE																						G	ENERAL NOTES ALL FINISH SURF
DM NAME	F	LOC	R		ł	BAS	Έ				W	4LL	S				CE	EILIN	VG *		REMARKS	' <i>`</i>	SPREAD RATING
	FLOOR TILE (NOTE 1) QUARRY TILE (NOTE 1)	HETAL SK	MATCH EXIST -VERIFY W/ McD'S ACM		TILE (NOTE 1)	VINTL FLOOR SEALER	MATCH EXIST -VERIFY W/ McD'S ACM	MATCH EXIST	YWC. OVER GIP BU ** GYPSUM BD. (PAINTED)	FRP OVER 1/2" PLY (NOTE 4)	STAINLESS STEEL CORNERS		MAICH EXISI -VERIFT W/ MCD'S ACH STAINLESS STEEL (24 GAUGE)	PRE-FAB METAL SKIN PANEL	MATCH EXIST MECH, SUSPENSION	2'x2' ACOUSTIC. LAY-IN	PAINTED GYP, BD.	PRE-FAB METAL SKIN PANEL	PAINT ON STRUCTURE ABOVE at AINI EAG ATEEL /77 CA MIN)	MATCH EXIST - VERIFY W/ McD'S ACM	* MATCH EXISTING - VERIFY WITH MCD'S ACM ** VWC ON EXTERIOR WALL ASSEMBLIES TO BE PERFORATED	3. 4. 5.	EXTINGUISHER L WHEN BUILDING TREATED.
ER SERVICE	•		•		•		•					•			•					•	TILE AS NOTED ON A1.1, VERIFY FINISHES WITH MCD'S ACM		<u>STATIC CC</u> WET (McDC
	•		•		•		•	•				•			•		•			•	VERIFY FINISHES WITH McD'S ACM		DYNAMIC
LE (NOT USED)	•		\bullet		•		•	•				•	•		•	_	•			•			WET (McDa
T (NOT USED)	•									•	•				•	_					SEE NOTE 1 FOR WALL FINISH EXCEPTIONS	8.	
OOTH (NOT USED)	•									•					•)							A) TILE BASE (F B) TILE EDGE P
TER	•														•					•	TILE AS NOTED ON A1.1, MATCH EXISTING, VERIFY FINISHES WITH McD'S ACM		C) TILE CORNER D) SEE DECOR
(NOT USED)	•									•	•	•	•		•	,						9,	
NOT USED)	•									•					•)							CONCRETE FLOC
-				•				•							•						EXISTING TO REMAIN		



CHECKED BY

A1.

JOB NO.

KD

22188

NOTE 1:

NOTE 2:

<u>GUIDELINES:</u>

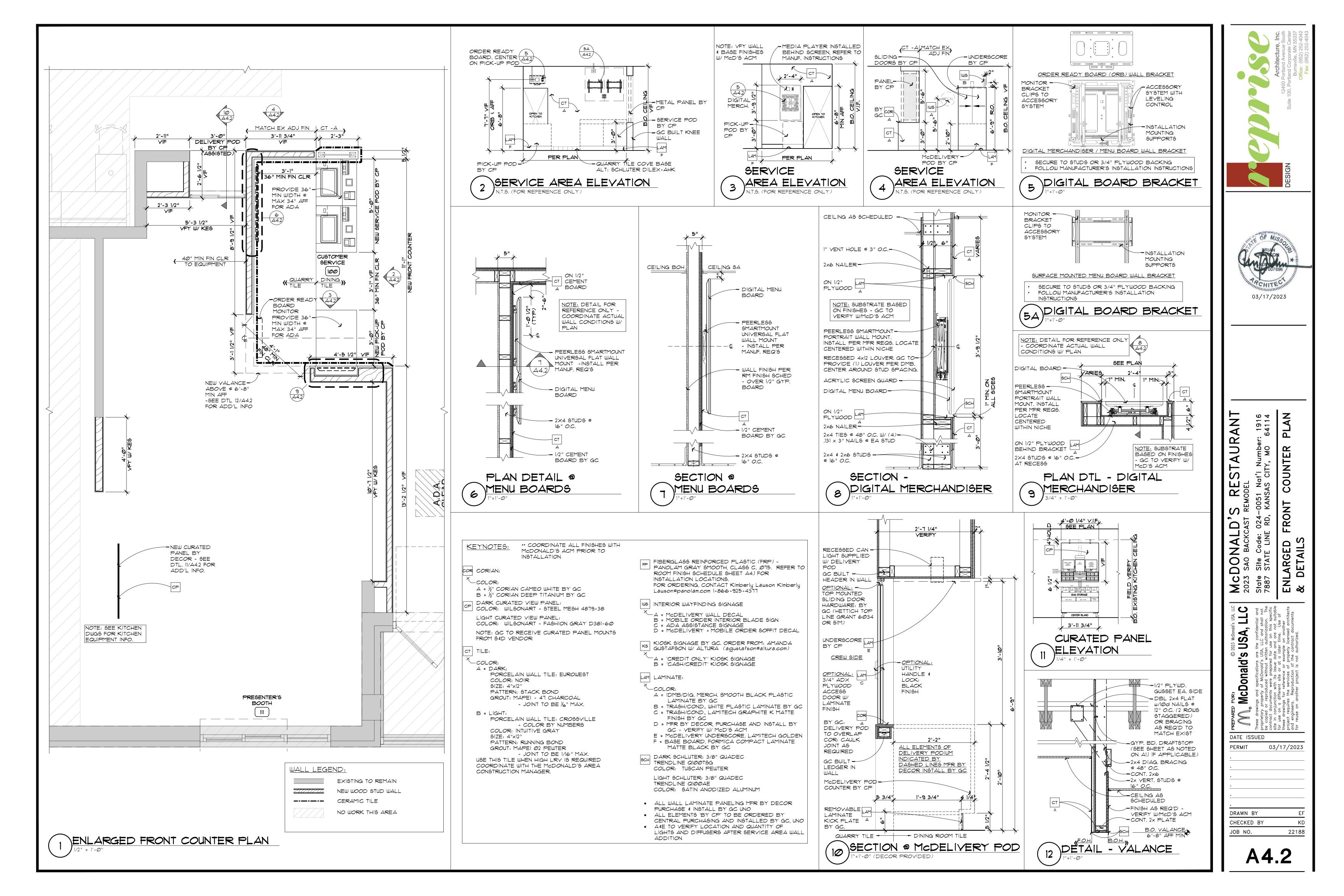
IG TYPE IS A NON-COMBUSTIBLE CATEGORY, ALL PLYWOOD SHALL BE FIRE RETARDANT

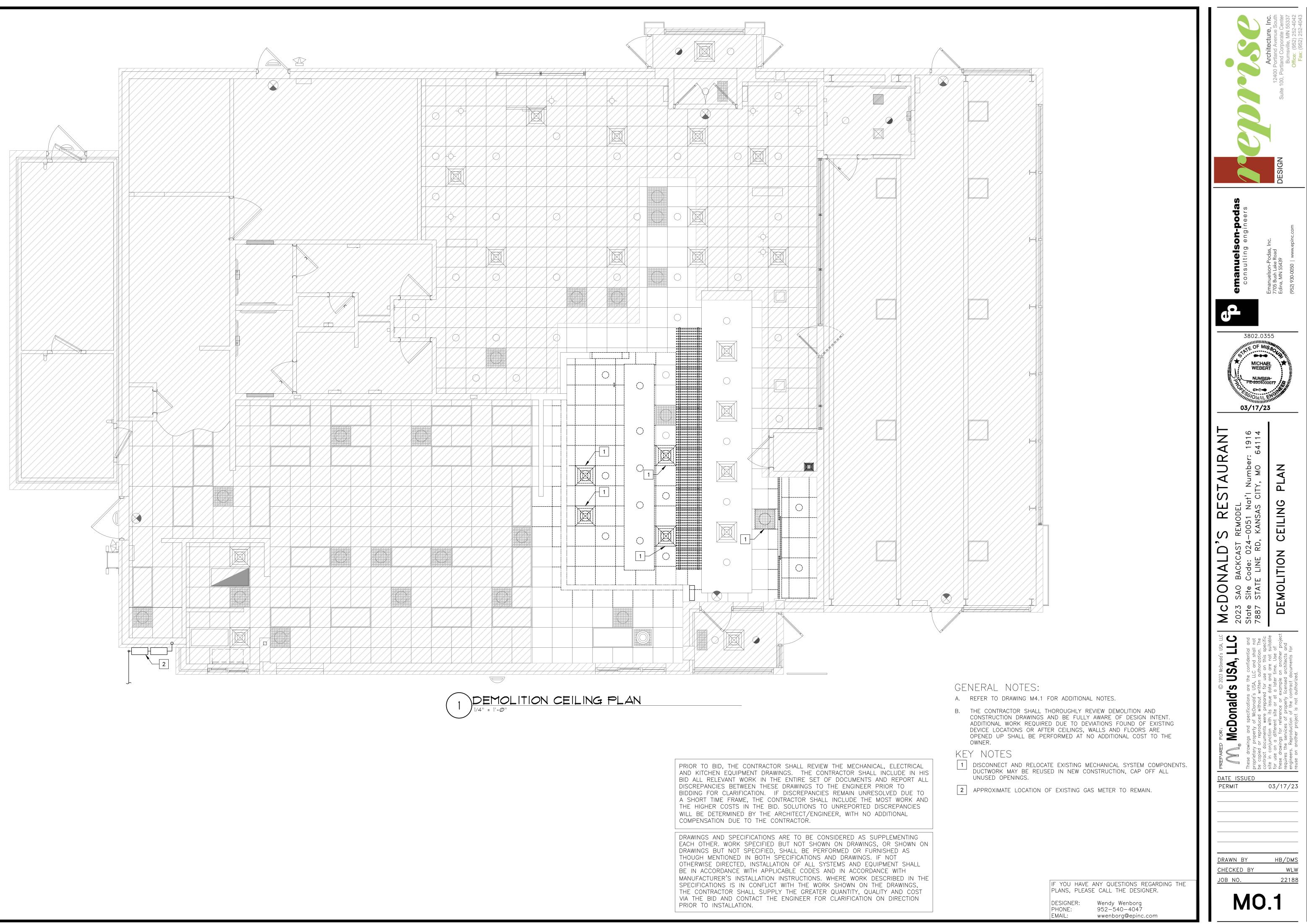
6x6 ABRASIVE TILE WITH EPOXY BLACK GROUT. USE ONLY APPROVED TILE SERIES AND

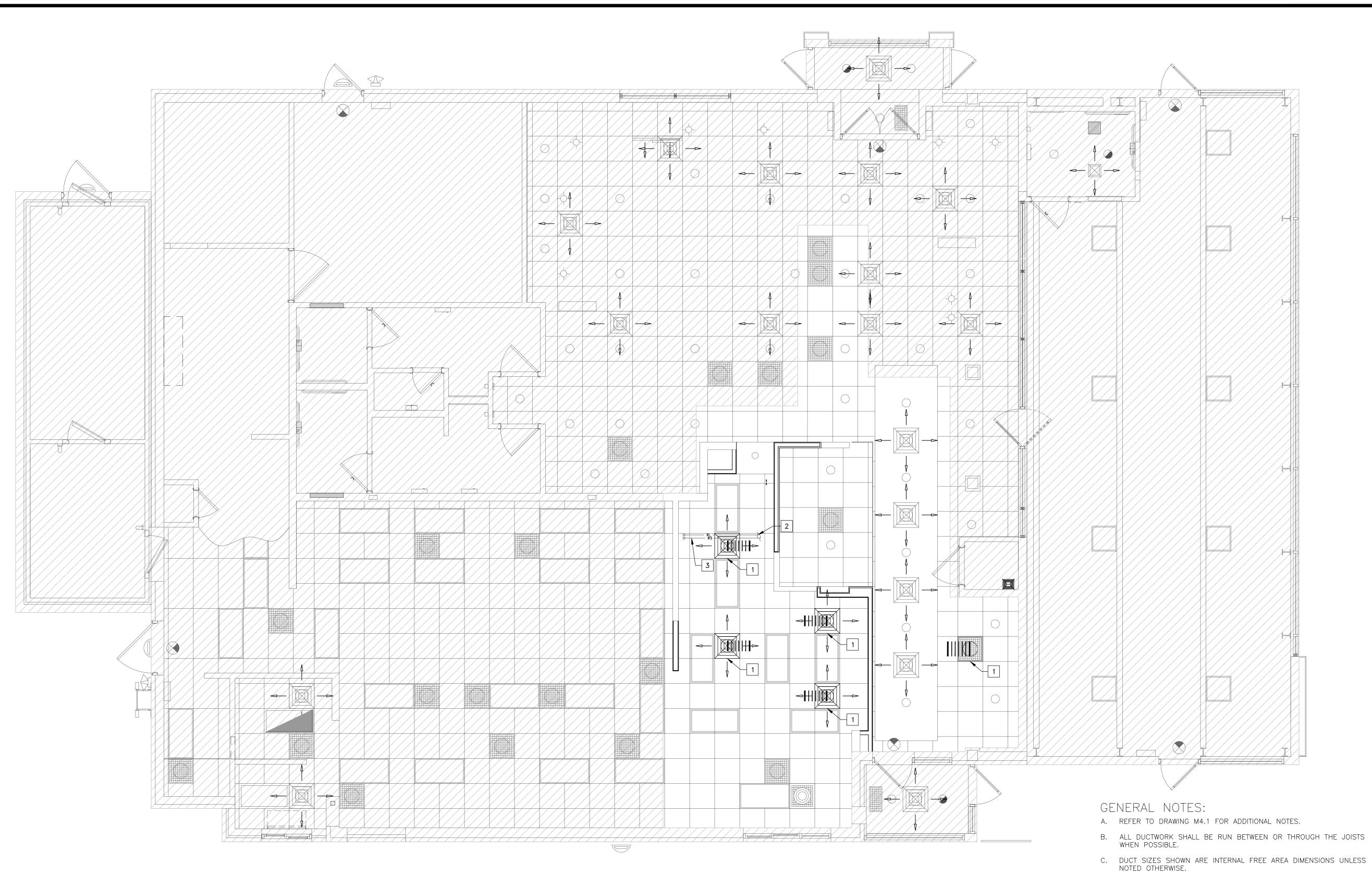
NT: EUROWEGT 12x24 (GIZE & GERIEG MAY VARY). UGE ONLY APPROVED TILE GERIEG AND UROWEST, DALTILE AND CROSSVILLE. VERIFY COLOR AND PATTERN WITH DECOR COMPANY. ER MCDONALD'S USA, LLC: <u>STANDARDS FOR INTERIOR FLOOR TILE</u> AND <u>APPROVE TILE LIST.</u>

COEFFICIENT OF FRICTION (PER ASTM FIG17-96): LEVEL SURFACES: MINIMUM Ø.50 DRY AND

PROTECTION (WALL TRANSITION): SCHLUTER-RONDEC-DB, SATIN ANODIZED ALUMINUM. ER PROTECTION (OUTSIDE CORNER): SCHLUTER-RONDEC-AE, SATIN ANODIZED ALUMINUM. YDRAFLEX WATERPROOFING CRACK ISOLATION MEMBRANE" AT ALL CONTROL JOINTS IN



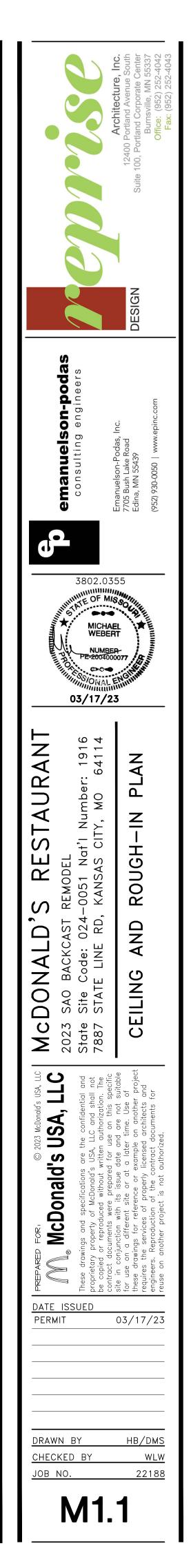




- D. ALL SHEET METAL DUCTWORK SHALL BE EXTERNALLY INSULATED. INSULATION IS NOT SHOWN FOR CLARITY. SEE MECHANICAL NOTES FOR INSULATION REQUIREMENTS.
- E. ALL EXISTING DIFFUSERS SHALL BE CLEANED AND REPAINTED TO MATCH NEW CEILING.

KEY NOTES

- 1 NEW LOCATION FOR RELOCATED REGISTER/DIFFUSER, RECONNECT BACK TO EXISTING DUCTWORK. PROVIDE NEW BORDER TYPE IF REQUIRED. BALANCE TO REMAIN UNCHANGED.
- 2 REFRIGERANT LIQUID AND SUCTION LINES UP THROUGH ROOF TO NEW CONDENSING UNIT (SEE DETAIL 1 ON DRAWING M4.1). COORDINATE EXACT LOCATION OF NEW CONDENSING UNIT ON ROOF WITH ACM. REUSE ROOF PORTALS AS MUCH AS POSSIBLE, PATCH ROOF AS REQUIRED.
- 3 ROUTE REFRIGERATION AND SUCTION LINES TO NEW ICE MACHINE LOCATION AS SHOWN, ROUTE BACK TO NEW CONDENSING UNITS, FIELD VERIFY EXACT LENGTH OF RUN.



	MECHAN	١C	CAL NOTES - NOT ALL NOTES
<u>GEN</u> 1.	<u>ERAL</u> : ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.	2.	ALL GREASE EXHAUST DUCTWORK JOINTS SHALL BE EITHER TELES BELL TYPE. BUTT-WELDED JOINTS ARE PROHIBITED.
2.	ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.	3.	ALL GREASE EXHAUST DUCTWORK SEAMS AND JOINTS SHALL BE CONTINUOUSLY WELDED WATER-TIGHT ON THE EXTERNAL SURFACE
3.	ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE McDONALD'S PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE McDONALD'S PROJECT MANUAL SHALL CONTACT THE McDONALD'S AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE McDONALD'S SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE	4.	DUCT SYSTEM. ALL WELDING SHALL BE PERFORMED BY A CERTIFI ALL GREASE EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATE ASTM E2336 LISTED AND LABELED GREASE DUCT ENCLOSURE SYS' INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4.	ENGINEER-OF-RECORD.	5.	ACCESS PANELS SHALL BE PROVIDED AT ALL CHANGES IN DIRECTI GREASE EXHAUST DUCTWORK SYSTEM. ACCESS PANELS SHALL BE IN ACCORDANCE WITH THE INSULATION MANUFACTURER'S INSTALLAT
	AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF AIR BALANCE IS PROVIDED THAN PRIOR TO BUILDING TURNOVER, A		INSTRUCTIONS AND SHALL BE LABELED AS FOLLOWS: "ACCESS PANNOT OBSTRUCT".
	COMPLETE START-UP, TEST, ADJUST AND BALANCE SHALL BE PERFORMED ON ALL MECHANICAL SYSTEMS. THIS WORK SHALL BE PERFORMED BY A CERTIFIED TEST AND BALANCE CONTRACTOR. A CERTIFIED TEST AND BALANCE CONTRACTOR CAN BE FOUND BY VISITING: HTTP://WWW.AABCHQ.COM/DIRECTORY HTTP://WWW.NEBB.ORG/DIRECTORY.HTM	6. 7.	ALL HORIZONTAL GREASE EXHAUST DUCTWORK SHALL BE INSTALLE MINIMUM ¼" PER FOOT SLOPE AND SHALL BE PITCHED BACK TOW, HOOD. UPBLAST KITCHEN EXHAUST FANS SHALL BE LOCATED A MINIMUM FROM ANY PARAPET WALL OR ADJACENT STRUCTURE AND SHALL T
6.	ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN	REF	MINIMUM OF 40 INCHES ABOVE THE FINISHED ROOFING MATERIAL.
	APPROVED AND LISTED FIRESTOPPING SYSTEM.	1.	ALL REFRIGERATION WORK SHALL BE PERFORMED BY A CERTIFIED REFRIGERATION CONTRACTOR.
	ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SMACNA STANDARDS.	3.	ALL REFRIGERANT PIPING SHALL BE SEAMLESS COPPER TUBING OF ACCORDANCE WITH ASTM B 88 AND ALL JOINTS SHALL BE SOLDEF ALL REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH A MI
	ALL DUCTWORK DIMENSIONS ARE INTERNAL FREE AREA DIMENSIONS AND SIZED FOR 0.1" W.C. PER 100 FT. OF DUCT.	0.	FOAM PIPE INSULATION. PIPE INSULATION INSTALLED OUTDOORS S PROTECTED WITH AN APPROVED WEATHERPROOFING MATERIAL.
3.	ALL SHEET METAL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA TABLES FOR 2" W.C. AND SHALL BE SUPPORTED WITH AN APPROVED HANGER AT INTERVALS NOT EXCEEDING 10 FT.	4.	ALL SUSPENDED REFRIGERANT PIPING SHALL BE SUPPORTED AS F MATERIAL MAX. HORIZ. SPACING MAX. VERT. SPAC
4.	ALL DUCT DROPS INTO THE BUILDING SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO ISOLATE THE DUCTWORK SYSTEM FROM NOISE AND VIBRATION. FLEXIBLE CONNECTIONS SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND LISTED AS CLASS 0 OR CLASS 1.	5.	COPPER TUBING $\leq 1\frac{1}{4}$ "6 FT.10 FT.COPPER TUBING $\geq 1\frac{1}{2}$ "10 FT.10 FT.ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEE
5.	ALL DUCT DROPS INTO THE BUILDING SHALL BE OFFSET AS NECESSARY TO ALLOW FOR THE CLEAR INSTALLATION OF THE EXTERNAL DUCTWORK INSULATION.	6.	EQUAL. ALL REFRIGERANT PIPING SYSTEMS SHALL BE PRESSURE TESTED F PRIOR TO START-UP. ALL LEAKS SHALL BE REMEDIED PRIOR TO
6.	ALL DUCTWORK BRANCHES SHALL BE SUPPLIED WITH A VOLUME DAMPER FOR BALANCING. VOLUME DAMPER SHALL HAVE A 2" OFFSET TO ACCOMMODATE EXTERNAL INSULATION.		<u>TURNOVER.</u> <u>2 DETECTION EQUIPMENT</u> : THE CO2 DETECTOR SHALL BE HARD-WIRED TO PREVENT TAMPERI
7.	TAKE-OFFS FROM RECTANGULAR TO ROUND DUCT SHALL BE DUCTMATE STRAIGHT-SIDED OR CENTER HIGH-EFFICIENCY TAKE-OFFS WITH A 2" DAMPER STAND-OFF TO ACCOMMODATE FOR EXTERNAL INSULATION.	2.	SHALL BE INSTALLED AT 12" A.F.F. WITHIN A 5 FT. RADIUS OF TH STORAGE TANKS. ONE (1) AUDIBLE AND ONE (1) VISUAL ALARM SHALL BE INSTALLE
8.	ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS SHALL BE SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), TAPES, ETC. ALL SEALANT MATERIALS SHALL BE LISTED IN ACCORDANCE WITH UL 181A OR 181B.	3.	MINIMUM OF 7 FT. A.F.F., IN PLAIN SIGHT IN THE SAME ROOM AS STORAGE TANKS. ONE (1) AUDIBLE AND ONE (1) VISUAL ALARM SHALL BE INSTALLE
9.	ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED WITHIN THE CEILING SPACE SHALL BE EXTERNALLY INSULATED. INSULATION SHALL BE 2" THICK MICROLITE XG-100 BY JOHNS MANVILLE OR EQUAL.		MINIMUM OF 7 FT. A.F.F., AT THE BACK OF THE KITCHEN AND IN SIGHT FROM THE MAIN SIDE OF THE PREP LINE.
10.	ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED OUTSIDE OF THE BUILDING SHALL BE INTERNALLY LINED WITH A 1" THICK FIBERGLASS (MIN. $R-4.2$) AND EXTERNALLY INSULATED WITH A 1½" THICK RIGID POLYSTYRENE, POLYURETHANE OR POLYISOCYANURATE BOARD (MIN. $R-7.5$). INTERNAL FIBERGLASS INSULATION SHALL BE LINATEX BY JOHNS MANVILLE OR EQUAL.	2.	ALL GAS PIPING, WATER HEATER VENTS, INTAKES AND FLUES SHAL TO THE CURRENT VERSION OF NFPA 54, NATIONAL FUEL GAS COE LOCAL CODE REQUIREMENTS. THE NATURAL GAS MAIN PIPE SIZING IS BASED ON THE FOLLOWING A. MINIMUM SUPPLY PRESSURE AT THE METER OF 2 PSIG B. 1 PSIG PRESSURE DROP FROM METER TO FARTHEST APPLIAN
	EXTERNAL RIGID BOARD INSULATION SHALL BE THERMAPINK BY OWENS CORNING OR EQUAL.	3.	C. 1,000 BTU PER CU. FT. OF NATURAL GAS GAS PIPING RUN-OUTS TO EQUIPMENT ARE SIZED BASED ON THE
11.	ALL EXPOSED SPIRAL DUCTWORK SHALL BE INTERNALLY INSULATED TO PREVENT CONDENSATION (MIN. $R-4.3$). INTERNAL INSULATION SHALL BE 1" THICK SPIRACOUSTIC PLUS BY JOHNS MANVILLE OR EQUAL.		 A. SUPPLY PRESSURE AT THE REGULATOR OF 10" W.C. (¼ PSIG B. 0.5" W.C. PRESSURE DROP FROM REGULATOR TO FARTHEST / C. 1,000 BTU PER CU. FT. OF NATURAL GAS
12.	ALL DUCTWORK PENETRATIONS THROUGH FIRE-RATED WALLS, BARRIERS OR PARTITIONS SHALL BE PROTECTED WITH A FIRE DAMPER. THE PERIMETER OF THE FIRE DAMPER SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING MATERIAL.	4.	ALL NATURAL GAS PIPE SHALL BE SCHEDULE 40 CARBON STEEL F MALLEABLE IRON FITTINGS AND SHALL BE COMPLY TO ONE OF THI FOLLOWING STANDARDS: ASME B36.10, 10M; ASTM A 53; OR ASTM
13.	ALL EXTERIOR SHEET METAL DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH AN APPROVED WEATHERPROOFING MATERIAL TO PROTECT AGAINST WATER PENETRATION AND CORROSION. SIDES AND TOP OF EXTERNAL	5.	NATURAL GAS PRESSURE REGULATORS SHALL BE MAXITROL 325 SI EQUAL.
	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.	6.	ALL SUSPENDED STEEL PIPING SHALL BE SUPPORTED AS FOLLOWS SIZE MAX. HORIZ. SPACING MAX. VERT. SPACI 发" 6 FT. 6 FT.
14.	ALL FLEXIBLE DUCTWORK, METALLIC AND NONMETALLIC, SHALL CONFORM TO THE FOLLOWING:		$\frac{1}{2}$ " 6 FT. 6 FT. $\frac{3}{4}$ " TO 1" 8 FT. 8 FT. $\geq 1\frac{1}{4}$ " 10 FT. 10 FT.
	 A. 2" THICK INSULATION (R-6.0) B. INTEGRAL VAPOR BARRIER C. LISTED AND LABELED UL 181, CLASS 0 OR CLASS 1 	7.	GAS PIPING SHALL NOT PENETRATE ANY FIRE-RATED CHASE OR S DUCTWORK OR PLENUM.
	 D. INSTALLED IN ACCORDANCE WITH: i. SMACNA STANDARDS, ii. AIR DIFFUSION COUNCIL INSTALLATION GUIDELINES, AND/OR 	8.	ALL NATURAL GAS PIPING INSTALLED OUTDOORS SHALL BE COATED CORROSION RESISTANT PAINT. PAINT COLOR SHALL BE ORANGE C
14.	iii. MANUFACTURER'S INSTALLATION INSTRUCTIONS FLEXIBLE DUCTWORK SHALL NOT PENETRATE WALLS. SHEET METAL DUCTWORK	9.	ALL INTAKE AND VENT PIPING FOR SEALED-COMBUSTION WATER H SHALL BE PVC OR ABS, SHALL BE SIZED AND INSTALLED IN ACCO WITH THE MANUFACTURER'S INSTRUCTIONS AND SHALL BE INSTALLI
15.	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	10.	PLUMBING CONTRACTOR. ALL WATER HEATER VENTS SHALL BE LOCATED A MINIMUM OF 10 HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A WATER
16.	INDEX NOT GREATER THAN 50. DUCT-MOUNTED SMOKE DETECTORS SHALL BE INSTALLED IN SYSTEMS WITH DESIGN CAPACITY GREATER THAN 2,000 CFM. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF SMOKE DETECTORS. DUCT-MOUNTED SMOKE DETECTORS ARE NOT REQUIRED WHEN THE BUILDING IS PROTECTED THROUGHOUT BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM WHERE THE FIRE ALARM SYSTEM IS DESIGNED TO SHUT DOWN THE ROOFTOP UNITS.		VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE FLUE OR VE TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.
17.	ALL SUPPLY AIR DIFFUSERS SHALL BE INSULATED TO PREVENT CONDENSATION.		
18.	ALL AIR DEVICES LOCATED IN DRYWALL CEILINGS SHALL BE SUPPLIED WITH AN INTEGRAL VOLUME DAMPER ACCESSIBLE FROM THE AIR DEVICE FACE TO FACILITATE BALANCING.		
19.	ALL OUTDOOR AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY SOURCE OF CONTAMINATION SUCH AS EXHAUST FANS, PLUMBING VENTS, WATER HEATER FLUES, ETC. WHERE A CONTAMINANT SOURCE IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE INTAKE OPENING SHALL BE LOCATED A MINIMUM OF 2 FT. BELOW THE CONTAMINANT SOURCE.		
20.	ALL ROOFTOP CONDENSING UNITS THAT DISCHARGE HORIZONTALLY SHALL BE ORIENTED SUCH THAT THE DISCHARGE DOES NOT BLOW IN THE DIRECTION OF AN OUTDOOR AIR INTAKE.		

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

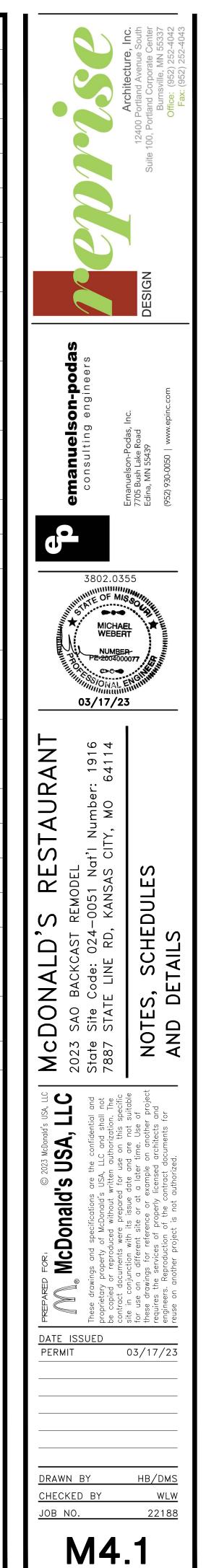
GAUGE CARBON STEEL (BLACK IRON).

APPL	(ABE	BREVI
SCOPING OR	11. UPON COMPLETION OF INSTALLATION, THE GAS F PURGED OF DELETERIOUS MATERIAL AND SHALL	BE PRESSURE TESTED.			ACM	AREA CON
E OF THE IFIED WELDER.	PRESSURE TESTING SHALL BE PERFORMED WITH VALVES IN THE CLOSED POSITION TO PROTECT TO EXCESSIVE PRESSURE.				B.J.	BELOW JO
TED WITH A 'STEM.	12. AFTER THE PRESSURE TEST HAS BEEN COMPLET REMEDIED, THE INSTALLING CONTRACTOR SHALL FOLLOWING GAS PRESSURES WHILE EQUIPMENT	MEASURE AND VERIFY TI	ΗE		BSI	BEVERAGE
NG AND THE	A. GRILL – 6" W.C. NATURAL, 14" W.C. L.P. B. FRYER – 6" W.C. NATURAL, 14" W.C. L.P. C. WATER HEATER – 6" W.C. NATURAL, 14" W				DCV	DEMAND C
CTION OF THE BE INSTALLED ATION	D. HVAC UNIT – 6" W.C. NATURAL, 14" W.C. 13. IF THE MINIMUM PRESSURES ARE NOT MET, THIS	L.P.	,		E.A.	EXHAUST ,
ANEL – DO	REPORTED TO THE MCDONALD'S AREA CONSTRUCT				EC	ELECTRICA
LED WITH A WARD THE	1. CONDENSATE PIPING SHALL BE GALVANIZED STEP 2. PVC PIPE SHALL BE PAINTED WITH WATER BASE		ESIST		FAC	FIRE ALAR
1 OF 6 FT. TERMINATE A	DEGRADATION FROM ULTRAVIOLET EXPOSURE.3. PIPE SUPPORTS SHALL BE RPS MODEL PMP-2	OR EQUAL. QUANTITY AS	;		FOB	FLAT ON E
	REQUIRED DEPENDANT UPON PIPING MATERIAL.4. PIPING SHALL BE SUPPORTED AS FOLLOWS:				FOT	FLAT ON T
D OF TYPE L IN	MATERIALMAX. HORIZ. SPACINGCOPPER PIPE12 FT.12 FT.12 FT.	10 FT.			FPC	FIRE PROT
ERED. MINIMUM 1"	GALVANIZED STEEL 12 FT. PVC 4 FT. 5. CONDENSATE PIPING SHALL SLOPE A MINIMUM C	15 FT. 15 FT.			GC	GENERAL
SHALL BE	 CONDENSATE PIPING SHALL SLOPE A MINIMUM C CONDENSATE PIPING SHALL BE SIZED BASED ON 	-			I.D.	INSIDE DIN
FOLLOWS:	TOTAL TONS SERVED BY PIPEMINIMUM PIPE S<20 TONS	IZE			KEI	KITCHEN E
	>20 TONS, <40 TONS 1" >40 TONS, <125 TONS 1½"				KES	KITCHEN E
M PIPE Eel or	CONTROL	S			M.A. (S)	MIXED AIR
FOR LEAKS O BUILDING	SYMBOL DESCRIPTION 24V THERMOSTAT (ROOFTOP UNITS)		ODEL 0H1009		M.A. (W)	MIXED AIR
	TIntermostrat (neoritor online)120V THERMOSTAT (COMPUTER CLOSET)(TS)REMOTE TEMPERATURE SENSOR		1A3018 TR21		МС	MECHANIC
RING AND THE CO2	(ATS) REMOTE AVERAGING TEMPERATURE SENSOR (HS) REMOTE HUMIDITY SENSOR		21-A 55A1006		O.A.	OUTDOOR
LED A As the CO2	BULK CO2 DETECTION SYSTEM	HONEYWELL Y723	50A1013		0.D.	OUTSIDE E
LED A N PLAIN	1. TO ORDER HONEYWELL EQUIPMENT CALL (800)5 2. SEE KITCHEN DRAWINGS FOR BULK CO2 DETECT				0/0	OWNER/OF
					PC	PLUMBING
ALL CONFORM DDE, AND ANY					R.A.	RETURN A
ING:					RC	REFRIGERA
ANCE					S.A.	SUPPLY A
IE FOLLOWING: SIG) APPLIANCE					S.P.	STATIC PR
. PIPE WITH HE					ТАВ	TEST AND
TM A 106. SERIES OR						
WS:						
CING						
SHAFT, ED WITH A						
OR YELLOW.						
CORDANCE LLED BY THE						
0 FT. ER HEATER /ENT SHALL				$\langle \overline{3} \rangle$		(5)
	$\langle 2 \rangle \longrightarrow \langle 1 \rangle$	<u>KEYED_NOTES</u> : 1. REFRIGERANT_LI 2. REFRIGERANT_S	UCTION LINE			
		WITH ¾" THICK FOAM INSULATIO BY ARMACELL O 3. STAINLESS STEE	DN (ARMAFLEX DR EQUAL)			
	57	4. APPLY WEATHER OVER FOAM INS (ALUMAGUARD E	RPROOFING GULATION		$\overline{}$	
		OR EQUAL) 5. WRAP FOAM INS PIPE PORTAL N	IPPLE AND			
		6. RESTART FOAM	INSULATION TER PIPE			
		PORTAL PENETR 7. INSULATE BOTTO PORTAL CURB (DM OF ROOF			
	9	8. PIPE HANGER 9. LIGHT GAUGE G STEEL PROTECT		9 8 4		
	1 REFRIGERANT PIPE	E INSTALLATIC	N	2 REMOTE CONDENSE	ER UNIT (C	CU-1)
	\sim			\sim		

ABB	REVIATIONS		LEGEND
ACM	AREA CONSTRUCTION MANAGER	TS	TEMPERATURE SENSOR
B.J.	BELOW JOISTS	ATS	AVERAGING TEMPERATURE SENSOR
BSI	BEVERAGE SYSTEM INSTALLER	CO2	CO2 SENSOR FOR ROOFTOP UNIT DEMAND CONTROL VENTILATION
DCV	DEMAND CONTROL VENTILATION	HS	HUMIDITY SENSOR
E.A.	EXHAUST AIR	(1)	THERMOSTAT
EC	ELECTRICAL CONTRACTOR	S	SMOKE DETECTOR
FAC	FIRE ALARM CONTRACTOR	KH 2	EQUIPMENT TAG
FOB	FLAT ON BOTTOM	R-1	DIFFUSER INFORMATION LINE 1: TAG
FOT	FLAT ON TOP	1750 CFM 18"ø	LINE 2: AIRFLOW LINE 3: NECK SIZE
FPC	FIRE PROTECTION CONTRACTOR		
GC	GENERAL CONTRACTOR		SUPPLY AIR DUCT (VERTICAL)
I.D.	INSIDE DIMENSION		RETURN OR EXHAUST AIR DUCT
KEI	KITCHEN EQUIPMENT INSTALLER		(VERTICAL)
KES	KITCHEN EQUIPMENT SUPPLIER	6	ROUND DUCT (VERTICAL)
И.А. (S)	MIXED AIR – SUMMER	SSC	STEADY-STATE SPEED CONTROLLER
И.А. (W)	MIXED AIR – WINTER		PLAQUE DIFFUSER (SHADED AREA DESIGNATES BLANK–OFF PANEL
МС	MECHANICAL CONTRACTOR		LOCATION)
0.A.	OUTDOOR AIR	, А. А.	
O.D.	OUTSIDE DIMENSION		LINEAR SLOT DIFFUSER
0/0	OWNER/OPERATOR		
PC	PLUMBING CONTRACTOR		LOUVERED FACE DIFFUSER
R.A.	RETURN AIR		CEILING-MOUNTED EXHAUST FAN
RC	REFRIGERATION CONTRACTOR		SPIN-IN COLLAR WITH VOLUME DAMPER
S.A.	SUPPLY AIR		VOLUME DAMPER
S.P.	STATIC PRESSURE		FLEXIBLE DUCTWORK
TAB	TEST AND BALANACE CONTRACTOR		
			SHEET METAL TEE WITH CAP
			POINT OF DISCONNECTION
			POINT OF CONNECTION
		(14"H EQUIPMENT	
	MANUFAC	TURED BY RPS OF	R EQUAL

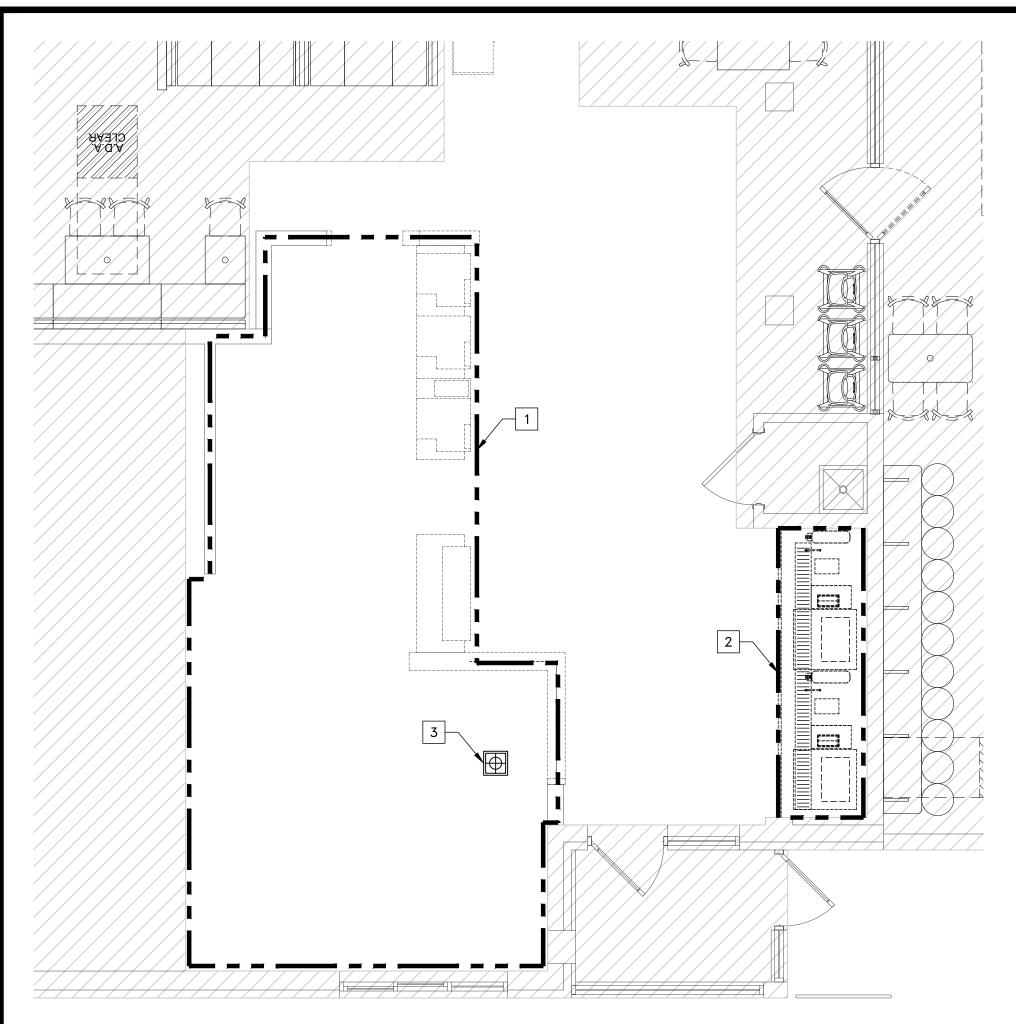
MANUFACTURED BY RPS OR EQUAL 2. 34"x24%"x25¾"H CONDENSING UNIT 3. FASTEN CONDENSING UNIT TO TOP OF PLATFORM AND SEAL FASTENER PENETRATIONS WITH UV RESISTANT SEAL PASTEINER PENETRATIONS WITH UV RESISTANT SEALANT OUTLINE OF SERVICE CLEARANCE EXTENDING FROM CONDENSING UNIT ON ALL SIDES CONDENSER AIR INTAKE CONDENSER FAN OUTLET 4. 5. $-\langle 2 \rangle$ 6. DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR 7. _ _ _ PROVIDE PIPE SUPPORT AS NECESSARY (TREATED LUMBER IS NOT ACCEPTABLE) MULTIPLE PIPE PORTAL MANUFACTURED BY RPS 8.

9. OR EQUAL <u>CONDUIT_SIZES</u>: (PER_CONDENSING_UNIT) (1) ¾" POWER (1) ¾" CONTROL REFRIGERANT PIPING SIZES: (PER CONDENSING UNIT) ICE MACHINE - 1/2" LIQUID, 3/4" SUCTION



_ __ __ __

4



DEMOLITION PLAN

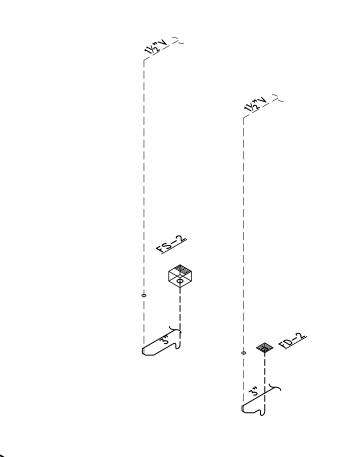
DEMOLITION GENERAL NOTES:

A. REFER TO DRAWING P2.1 FOR ADDITIONAL NOTES.

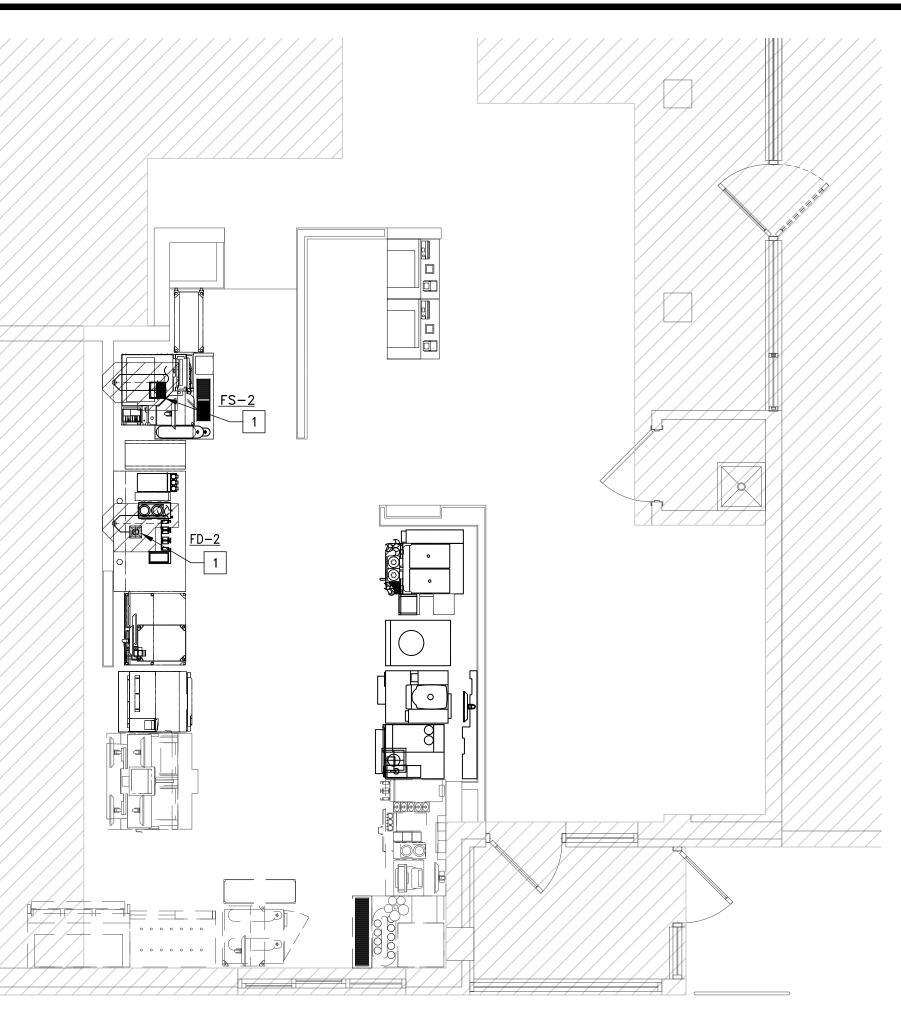
- B. VERIFY EXACT LOCATION OF SANITARY EXISTING LINES AND MAIN VENTS PRIOR TO ANY FLOOR CUTTING.
- C. REUSE EXISTING PIPING IN NEW CONSTRUCTION WHENEVER POSSIBLE. CLEAN AND REFURBISH PIPING AS NECESSARY FOR PRESSURE TEST FOR 100 LBS.

DEMOLITION KEY NOTES

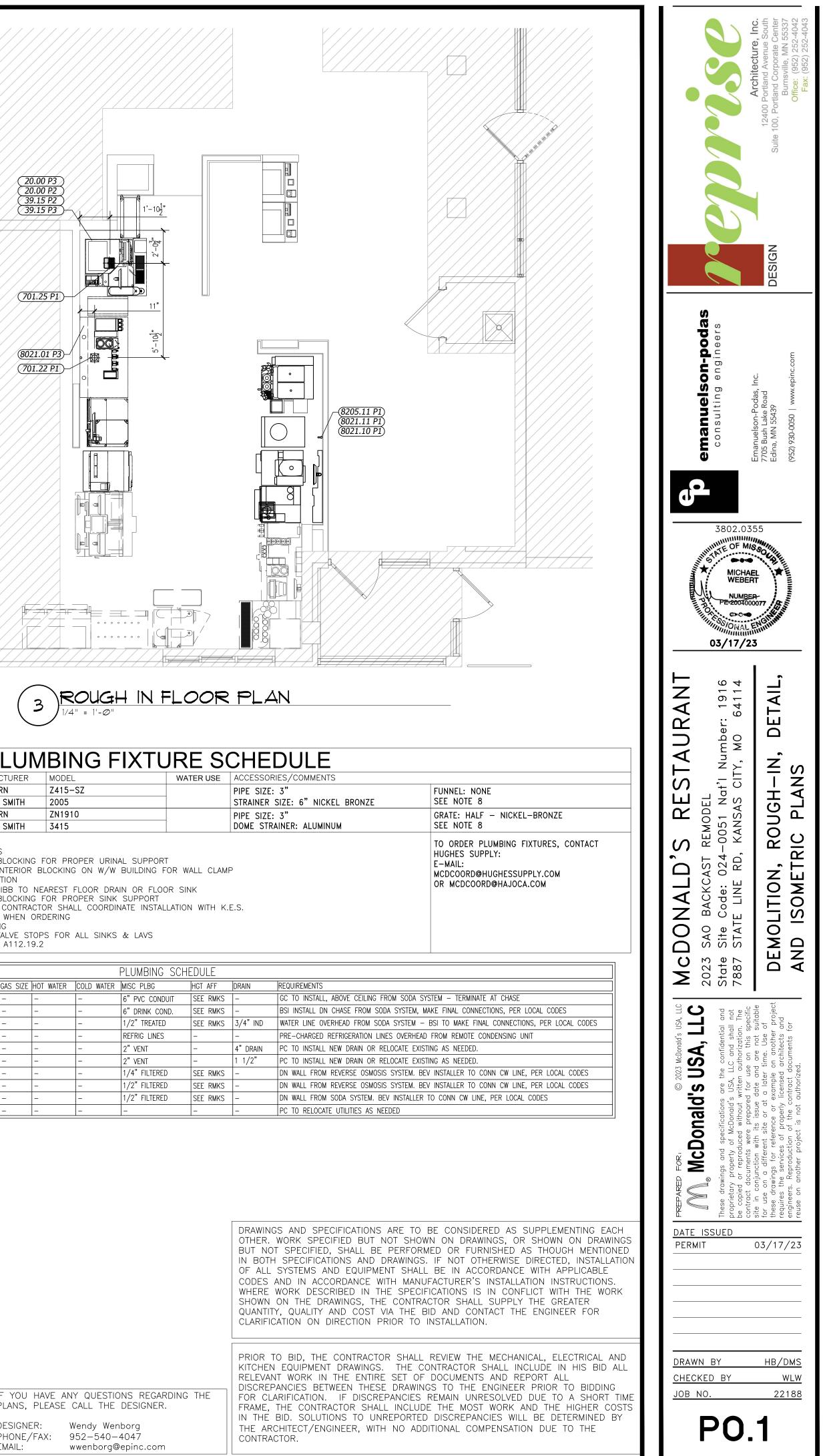
- 1 REFER TO PLUMBING SCHEDULE FOR LIST OF EQUIPMENT IN THIS AREA. CAP ALL UNUSED CONNECTIONS ABOVE CEILING OR BELOW FLOOR.
- 2 REMOVE EXISTING FLOOR DRAIN OR FLOOR SINK, BACK FILL, COMPACT AND PATCH CONCRETE TO MATCH. G.C. SHALL PROVIDE FINAL FLOOR FINISHES I.E. CERAMIC TILE, ECT. AND PATCH WALL AS REQUIRED. REFER TO HATCHED AREA ON DRAWING FOR CUT AND PATCH AREAS. REMOVE SODA TOWER, ICE MACHINES, AND CONDIMENTS.
- 3 APPROXIMATE LOCATION OF EXISTING FLOOR SINK. IF EXISTING LOCATION DOES NOT COMPLY WITH NEW KITCHEN EQUIPMENT LOCATIONS. DISCONNECT AND PROVIDE NEW FLOOR SINK IN NEW LOCATION. BACK FILL, COMPACT AND PATCH CONCRETE TO MATCH. G.C. SHALL PROVIDE FINAL FLOOR FINISHES I.E. CERAMIC TILE, ECT. AND PATCH WALL AS REQUIRED. REFER TO HATCHED AREA ON DRAWING FOR CUT AND PATCH AREAS.



WASTE & VENT PIPING ISOMETRIC



TAG



2)PLUMBING FLOOR PLAN

PLUMBING GENERAL NOTES:

A. REFER TO DRAWING P2.1 FOR ADDITIONAL NOTES.

B. FOR ALL NEW SANITARY AND GREASE PIPING AND CUT AND PATCH AREAS PATCH CERAMIC TILE TO MATCH. G.C. SHALL PROVIDE FINAL FLOOR FINISHES I.E. CERAMIC TILE ETC. AND PATCH WALL AS REQUIRED.

C. FIELD VERIFY EXISTING CONNECTION POINTS PRIOR TO INSTALLATION OF ALL PLUMBING LINES.

PLUMBING KEY NOTES

1 INSTALL NEW FS, FD, OR TD. INSTALL NEW 3" SANITARY WASTE AND CONCEALED 2" VENT PIPING. FIELD VERIFY LOCATION OF EXISTING.

	PLUM	IBING FIX
DESCRIPTION	MANUFACTURER	MODEL
6x6 FLOOR DRAIN	ZURN	Z415-SZ
6X6 FLOOR DRAIN	JAY R. SMITH	2005
	711011	7114040

FD-2	6x6 FLOOR DRAIN	ZURN	Z415-SZ
rD-Z	6x6 FLOOR DRAIN	JAY R. SMITH	2005
FS-2	8x8 FLOOR SINK WITH HALF-GRATE	ZURN	ZN1910
13-2	OXO FLOOR SINK WITH HALF-GRATE	JAY R. SMITH	3415
NOTES	·		

SEE McDONALD'S PROJECT MANUAL FOR ADDITIONAL MANUFACTURERS PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER URINAL SUPPORT PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE INTERIOR BLOCKING ON W/W BUILDING FOR WALL CLAMP YARD HYDRANT IS FOR TRASH CORRAL - SEE SITE PLAN FOR LOCATION

PLUMBING CONTRACTOR SHALL ROUTE ½" DRAIN PIPE FROM HOSE BIBB TO NEAREST FLOOR DRAIN OR FLOOR SINK PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER SINK SUPPORT

SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION - PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION WITH K.E.S. PLUMBING CONTRACTOR SHALL SPECIFY CONNECTION MATERIAL/TYPE WHEN ORDERING

9. PLUMBING CONTRACTOR SHALL SPECIFY BURY DEPTH WHEN ORDERING

10. PLUMBING CONTRACTOR SHALL PROVIDE GRID DRAIN, P-TRAP AND VALVE STOPS FOR ALL SINKS & LAVS 11. WATER CLOSETS MUST MEET ALL REQUIREMENTS OF ANSI STANDARD A112.19.2

			1	1	1	i		PLUMBI
TEM #	QTY	ITEM DESCRIPTION	GAS TYPE	GAS BTU	GAS SIZE	HOT WATER	COLD WATER	MISC PLB
20.00 P2	1	AUTOMATED BEVERAGE SYSTEM	-	-	-	-	-	6" PVC (
20.00 P3	1	AUTOMATED BEVERAGE SYSTEM	-	-	-	-	-	6" DRINK
39.15 P2	1	ICE MACHINE – 1000 LB.	-	-	-	-	-	1/2" TRE
39.15 P3	1	ICE MACHINE – 1000 LB.	-	-	-	-	-	REFRIG L
701.22 P1	1	4" FLOOR DRAIN	-	-	-	-	-	2" VENT
701.25 P1	1	8" X 8" FLOOR SINK WITH 1 1/2" DRAIN	-	-	-	-	-	2" VENT
8021.01 P3	1	RELOCATED COFFEE BREWER	-	-	-	-	-	1/4" FILT
8021.10 P1	1	RELOCATED SPECIALTY COFFEE	-	-	-	-	-	1/2" FILT
8021.11 P1	1	RELOCATED SMOOTHIE MACHINE	-	-	-	-	-	1/2" FILT
8205.11 P1	1	RELOCATED FROZEN CARBONATED BEVERAGE	-	_	_	_	-	_

IF YOU HAVE A	NY QUESTIONS RE CALL THE DESIG
PLANS, PLEASE	CALL THE DESIG
DESIGNER:	Wendy Wenborg
PHONE/FAX:	952-540-4047
EMAIL:	wwenborg@epinc.

GENERAL PLUMBING NOTES

- <u>GENERAL</u>: ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.
- ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO 3. INSTALLATION. ALL ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH THE MANUFACTURER'S SUBMITTAL INFORMATION.
- ALL DIMENSIONAL INFORMATION IS AS FOLLOWS (UNLESS NOTED OTHERWISE): UNDERGROUND PIPE IS TO FOUNDATION OVERHEAD PIPE IS TO FINISHED WALL
- ELEVATIONS ARE TO FINISHED FLOOR
- 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.
- SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 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.
- 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.
- <u>SANITARY AND VENT SYSTEMS:</u> THE BUILDING SANITARY PIPE SHALL BE LOCATED A MINIMUM OF 5 FT. FROM THE INCOMING WATER SERVICE. WHERE A 5 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
- ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR PROTECTO 401 LINED CAST-IRON WHERE REQUIRED BY CODE.
- ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH OF ¼" PER FOOT, OR IF THE (AHJ) ALLOWS AS FOLLOWS: PIPE SIZE MIN. SLOPE

	IVIIIN, SLOI L
2 ¹ / ₂ " OR LESS	¼" per ft.
3" TO 6"	⅛"PER FT.
8" OR LARGER	μ ₆ " per ft.

CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.

- 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.
- CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
- WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
- 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.
- 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
¼" PER FT.	2'-6"
¼" PER FT.	3'-6"
¼" PER FT.	5'-0"
⅓"PER FT.	6'-0"
⅓"PER FT.	10'-0"
	SLOPE ¼" PER FT. ¼" PER FT. ¼" PER FT. ½" PER FT. ½" PER FT. ½" PER FT.

- . 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 3 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. TRAP GUARD NOT ALLOWED IN KITCHEN AREA
- 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 5. AND THE TOP OF THE RECEPTOR SHALL BE TWICE THE DIAMETER OF THE APPLIANCE DRAIN PIPE.
- THE PVC PLASTIC PIPING TO BE INSTALLED MUST COMPLY WITH ONE OF THE FOLLOWING ASTM STANDARDS: D2665, OR F891. THE INSTALLATION MUST COMPLY WITH ASTM STANDARD D2321
- ALL PLASTIC PIPE USED FOR DRAIN, WASTE, AND VENT SYSTEM (ABS, PVC). SHALL COMPLY WITH ASTM D2661 OR F268 (ABS) AND D2665, D2949 OR F891 (PVC). ABOVE GRADE HORIZONTAL RUNS OF PLASTIC WASTE AND VENT PIPE CANNOT EXCEED 35 FEET IN TOTAL LENGTH. AND ABOVE GRADE VERTICAL STACKS CONSTRUCTED OF PLASTIC PIPE MAY EXCEED 35 FEET IN TOTAL HEIGHT ONLY IF AN APPROVED EXPANSION JOINT IS USED. SOLVENT WELD JOINTS IN PVC AND CPVC PIPE MUST INCLUDE USE OF PRIMER WHICH IS OF CONTRASTING COLOR TO THE PIPE AND CEMENT.
- CAST IRON PIPE USED FOR ABOVE GROUND WASTE SYSTEMS MUST MEET ANSI STANDARD A21.2, A21.6, A21.8, A40.5, OR ASTM STANDARD A-74.

- REASE INTERCEPTORS SEE SITE PLAN FOR THE SIZE AND LOCATION OF THE GREASE INTERCEPTOR.
- THE GREASE INTERCEPTOR SHALL BE INSTALLED IN A LOCATION THAT IS ACCESSIBLE FOR PUMPING.
- THE GREASE INTERCEPTOR SHALL BE CONSTRUCTED OF FIBERGLASS OR PRECAST CONCRETE. GREASE INTERCEPTOR CONSTRUCTION SHALL CONFORM TO ALL LOCAL CODES.
- PRECAST CONCRETE INTERCEPTORS SHALL BE CAPABLE OF 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, SHALL BE REINFORCED WITH BAR OR WIRE MESH AND SHALL BE COATED WITH A MINIMUM OF TWO(2) LAYERS OF NOVOL AC EPOXY ON THE INTERIOR. EPOXY SHALL BE SHERWIN WILLIAMS NOVA PLATE UHS OR EQUAL.
- THE GREASE INTERCEPTOR SHALL BE VENTED IN ACCORDANCE WITH THE LOCAL CODE OR THE MANUFACTURER'S REQUIREMENTS.
- ACCESS TO THE GREASE INTERCEPTOR SHALL BE PROVIDED WITH TWO (2) 24-IN. MANHOLES. ALL SURFACE WATER MUST DRAIN AWAY FROM MANHOLES.
- PIPING INLET AND OUTLET SIDES SHALL BE CLEARLY LABELED ON THE TOP OF THE GREASE INTERCEPTOR TO INSURE PROPER INSTALLATION.

<u>DOMESTIC SUPPLY SYSTEMS:</u>

THE INCOMING WATER SERVICE PIPE SHALL BE LOCATED A MINIMUM OF 5 FT. FROM THE EXITING SANITARY PIPE. WHERE A 5 FT. SEPARATION IS NOT POSSIBLE THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.

- ALL UNDERGROUND SITE PLUMBING SHALL CONFORM TO NSF 61, SHALL BE TYPE K COPPER TUBING OR COPPER PIPE, POLYETHYLENE (PE) OR CPVC. IF CPVC IS USED, FOAM INSULATION SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION TO ACCOUNT FOR EXPANSION AND CONTRACTION. CPVC PIPE SHALL NOT BE USED PRIOR TO THE WATER METER. ALL COPPER PIPING MUST COMPLY WITH ASTM STANDARD B88. GALVANIZED STEEL PIPE SHALL MEET ASTM STANDARD A53.
- INCOMING WATER SERVICE PRESSURE SHALL BE BETWEEN 45 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 45 PSI STATIC, A PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED.
- 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.
- PROVIDE A MINIMUM $\frac{1}{2}$ " ANNULAR CLEARANCE AROUND ALL PIPE SLAB PENETRATIONS.
- A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INCOMING SERVICE WHERE REQUIRED BY CODE.
- AN EXPANSION TANK SHALL BE INSTALLED ON THE COLD WATER LINE INLET TO THE WATER HEATER. SEE EXPANSION TANK SCHEDULE.
- 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 OR CPVC PIPE.
- CPVC PIPE SHALL BE FLOWGUARD GOLD OR FLOWGUARD BENDABLE AS MANUFACTURED BY LUBRIZOL.
- 10. CPVC PIPE SHALL BE CONNECTED WITH FLOWGUARD GOLD YELLOW LOW-VOC SOLVENT CEMENT AS MANUFACTURED BY IPS WELD-ON OR OATEY.
- 11. ALL CPVC PIPE SHALL BE INSULATED TO PREVENT EXPOSURE TO GREASE.

12.	ALL	SUSPENDED	PIPF	SHALL	BF	SUPPORTED	AS	FOLLOWS:	
			· ·· —						

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SP.
COPPER PIPE	12 FT.	10 FT.
COPPER TUBING $\leq 1\frac{1}{4}$ "	6 FT.	10 FT.
COPPER TUBING >1½"	10 FT.	10 FT.
CPVC <u><</u> 1"	3 FT.	10 FT.
$CPVC \geq 1\frac{1}{4}$ "	4 FT.	10 FT.

- 13. 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).
- 14. ALL DEVICES, APPLIANCES, AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION 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.
- 15. ALL WATER SUPPLY LINES SHALL BE PROVIDED WITH A QUARTER-TURN SHUT-OFF VALVE BEFORE FINAL CONNECTION TO EQUIPMENT.
- 16. QUARTER-TURN SHUT-OFF VALVES SHALL BE INSTALLED UPSTREAM OF ANY INLINE BACKFLOW PREVENTION DEVICE.
- 17. ALL VALVES AND BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WITH FITTINGS THAT FACILITATE REMOVAL IN CASE OF FAILURE.
- 18. ALL OVERHEAD WATER LINES SHALL BE INSULATED WITH 1" THICK EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7.
- 19. 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.
- <u>STORM DRAINAGE SYSTEMS</u> ALL ROOF DRAINS SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODES AND SHALL CONFORM TO ASME A112.21.2M OR A112.3.1.
- ALL STORM DRAINAGE PIPING SHALL BE ABS, PVC TYPE DWV OR CAST-IRON WHERE REQUIRED BY CODE.
- 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.
- 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.
- CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.
- 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. 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.

NOT ALL NOTES MAY APPLY TO THIS PROJECTS SCOPE OF WORK.

BACKFLOW PREVENTER SCHEDULE

SERVES

CHEMICAL SYSTEM

CHEMICAL SYSTEM

CHEMICAL SYSTEM

MOP SINK FAUCET

WALL HYDRANT

YARD HYDRANT

ROOF HYDRANT

INCOMING WATER

I OCATION

DIN. RM.-MOP SINK

KITCHEN-MOP SINK

SUPP. RM.-3-COMP

SEE DRAWINGS

SEE DRAWINGS

TRASH CORRAL

ROOF

SUPPORT ROOM

SUPPORT ROOM

IRRIGATION SYSTEM

SODA TOWERS AND SPEC. COFFEE

ASSE

LISTING

1055B

1001

_

1012

1052

1052

1022

1013

RPZ WILKINS 375XL-AG 1013 FILTRATION SYSTEM

PVB WATTS WA800M4QT-100 1020 IRRIGATION SYSTEM

MODEL

SD-3

AG FURN. WITH CHEM. SYS. 1055B

FURN. WITH FAUCET

FURN. WITH HB

FURN. WITH HB

FURN, WITH HB

RPZ | WILKINS | 375XL-SXL-AG |

MFR.

AG FURN. WITH CHEM. SYS.

AVB FURN. WITH CHEM. SYS.

TYPF

AVB

VR

DCV

DCV

DCV WATTS

PACING

ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR LINED
CAST-IRON WHERE REQUIRED BY CODE. ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH OF 1/4" PER FT AND HORIZONTAL VENTS
PITCH OF 1/8" PER FT.

DRAWING NOTES

CONSTRUCTION.

1. ALL SANITARY AND VENT PIPE SHALL BE

MORE THAN 50 FT. APART.

FITTING FROM CPVC TO COPPER.

2. A CLEANOUT MUST BE PROVIDED FOR EACH TOTAL CHANGE OF DIRECTION EXCEEDING 90 DEGREES IN ANY HORIZONTAL DRAINAGE LINE. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT

3. 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 OR GALVANIZED STEEL PIPE. IF CPVC PIPE IS USED FOR SITE PIPING, THE PLUMBING CONTRACTOR SHALL PROVIDE AN APPROVED ADAPTER

4. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY MCDONALD'S FIELD COORDINATOR AND ENGINEER OF ANY DISCREPANCIES.

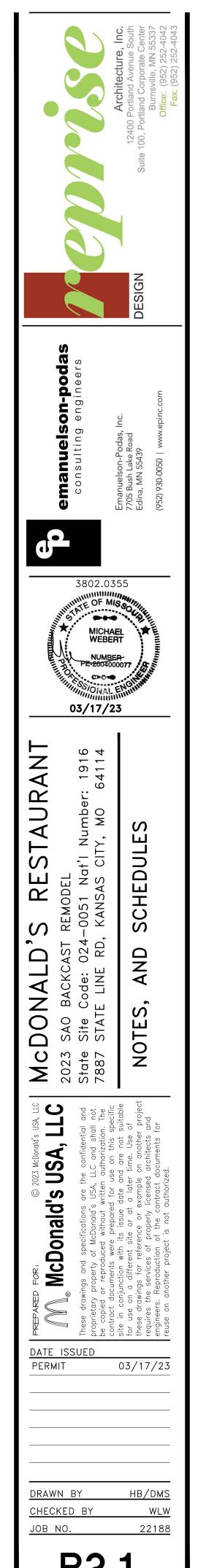
5. CONTRACTORS SHALL PERFORM WORK IN CONFORMANCE TO ALL STATE AND LOCAL CODES AND SHALL MEET ASTM STANDARDS.

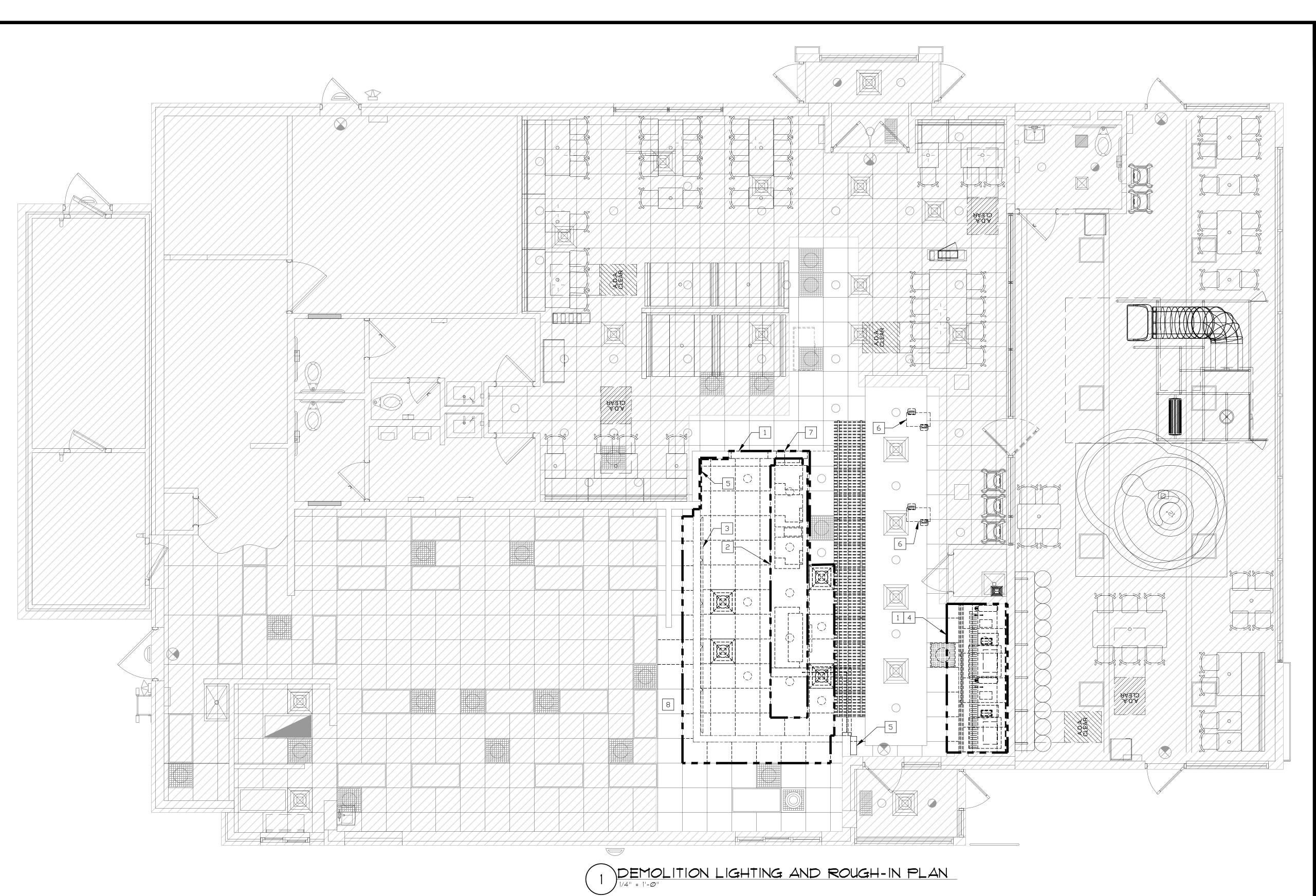
6. INSTALL PLUMBING FIXTURES AS SHOWN IF REQUIRED. SAW CUT EXISTING CERAMIC TILE AND THINSET FLOOR, REMOVE EXISTING WOOD FLOORING AS NECESSARY AND REFRAME EXISTING FLOOR JOIST TO ALLOW FOR INSTALLATION OF PLUMBING FIXTURE. TIE INTO EXISTING 4" OR LARGER SANITARY WASTE LINE, PATCH CERAMIC TILE TO MATCH. GC SHALL PROVIDE FINAL FLOOR FINISHES I.E. CERAMIC TILE ETC. AND PATCH WALL AS REQUIRED.

7. DISCONNECT AND TEMPORARILY CAP ALL REQUIRED PIPING TO ALLOW FOR NEW

8. THE CONTRACTOR SHALL THOROUGHLY REVIEW DEMOLITION AND CONSTRUCTION DRAWINGS AND BE FULLY AWARE OF DESIGN INTENT. ADDITIONAL WORK REQUIRED DUE TO DEVIATIONS FOUND OF EXISTING DEVICE LOCATIONS OR AFTER CEILINGS, WALLS AND FLOORS ARE OPENED UP SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

	EGEND
·	COLD WATER PIPING
· · ·	HOT WATER PIPING (110°F)
· ·	HOT WATER PIPING (140°F)
	RECIRCULATED HOT WATER PIPING (110°)
· · ·	RECIRCULATED HOT WATER PIPING (140°)
	OVERHEAD LINES (BY P.C.)
	UNDERGROUND WASTE PIPING
	VENT PIPING
	FLOOR DRAIN
Ø	CLEAN-OUT (FLOOR OR YARD)
	FLOOR SINK
ABBF	REVIATIONS
ACM	AREA CONSTRUCTION MANAGER
AVB	ATMOSPHERIC VACUUM BREAKER
BSI	BEVERAGE SYSTEM INSTALLER
СО	CLEAN-OUT
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
FPC	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
GC	GENERAL CONTRACTOR
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
KEI	KITCHEN EQUIPMENT INSTALLER
KES	KITCHEN EQUIPMENT SUPPLIER
MC	MECHANICAL CONTRACTOR
NPS	NATIONAL PIPE THREAD STANDARD
NPT	NATIONAL PIPE THREAD TAPERED
0/0	OWNER/OPERATOR
ОН	OVERHEAD
PC	PLUMBING CONTRACTOR
RC	REFRIGERATION CONTRACTOR
RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
SS	SANITARY SEWER
ST	STORM SEWER
SVB	ANTI-SIPHON, SPILL RESISTANT VACUUM BREAKER
TAB	TEST AND BALANACE CONTRACTOR
UG	UNDERGROUND





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

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

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

DESIGNER: Wendy Wenborg 952-540-4047 wwenborg@epinc.com

PHONE:

EMAIL:

KEY NOTES

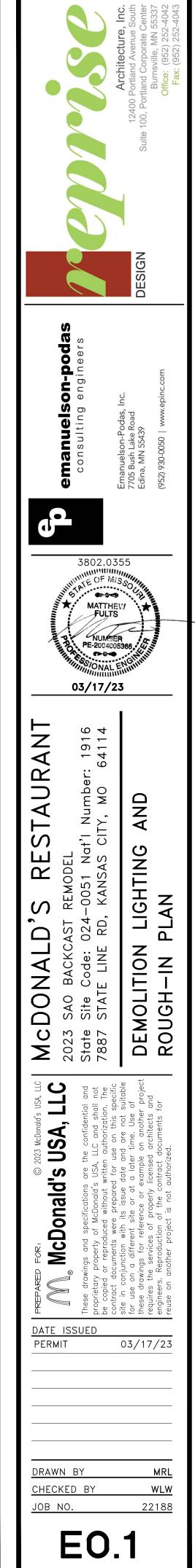
- 1 COORDINATE WITH McDONALD'S ACM FOR LIGHTING TO BE RELOCATED IN THIS AREA. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES. MAINTAIN EXISTING CIRCUIT AND SWITCHING WHERE POSSIBLE. TURN OVER REMAINING LIGHTING FIXTURES TO OWNER.
- 2 DISCONNECT AND REMOVE FRONT COUNTER ORDER EQUIPMENT IN THIS AREA FOR REUSE IN NEW CONSTRUCTION. MAINTAIN EXISTING CIRCUITING AND WIREWAYS WHERE POSSIBLE FOR REUSE IN NEW CONSTRUCTION.
- 3 DISCONNECT AND REMOVE EXISTING MENU BOARDS. MAINTAIN EXISTING CIRCUITING AND WIREWAYS WHERE POSSIBLE FOR REUSE IN NEW CONSTRUCTION.
- 4 DISCONNECT AND REMOVE EXISTING SELF SERVE BEVERAGE SYSTEM. MAINTAIN EXISTING CIRCUITING AND WIREWAYS WHERE POSSIBLE FOR REUSE IN NEW CONSTRUCTION.
- 5 DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT. MAINTAIN ALL CIRCUITS AND WIREWAYS WHERE POSSIBLE FOR RECONNECTION IN NEW CONSTRUCTION.
- 6 DISCONNECT AND RELOCATE EXISTING KIOSK FOR REUSE IN NEW CONSTRUCTION. MAINTAIN EXISTING CIRCUIT AND SWITCHING WHERE POSSIBLE FOR REUSE IN NEW CONSTRUCTION.
- 7 REFER TO SHEET E2.1 FOR EQUIPMENT THAT IS TO BE RELOCATED THIS AREA. COORDINATE WITH KITCHEN SUPPLIER TO DETERMINE DEVICES TO BE REMOVED. REUSE CIRCUITS WHERE POSSIBLE.
- 8 DISCONNECT AND RELOCATE EXISTING KES PANEL IN THIS AREA. MAINTAIN EXISTING CIRCUIT AND WIREWAYS FOR REUSE IN NEW CONSTRUCTION.

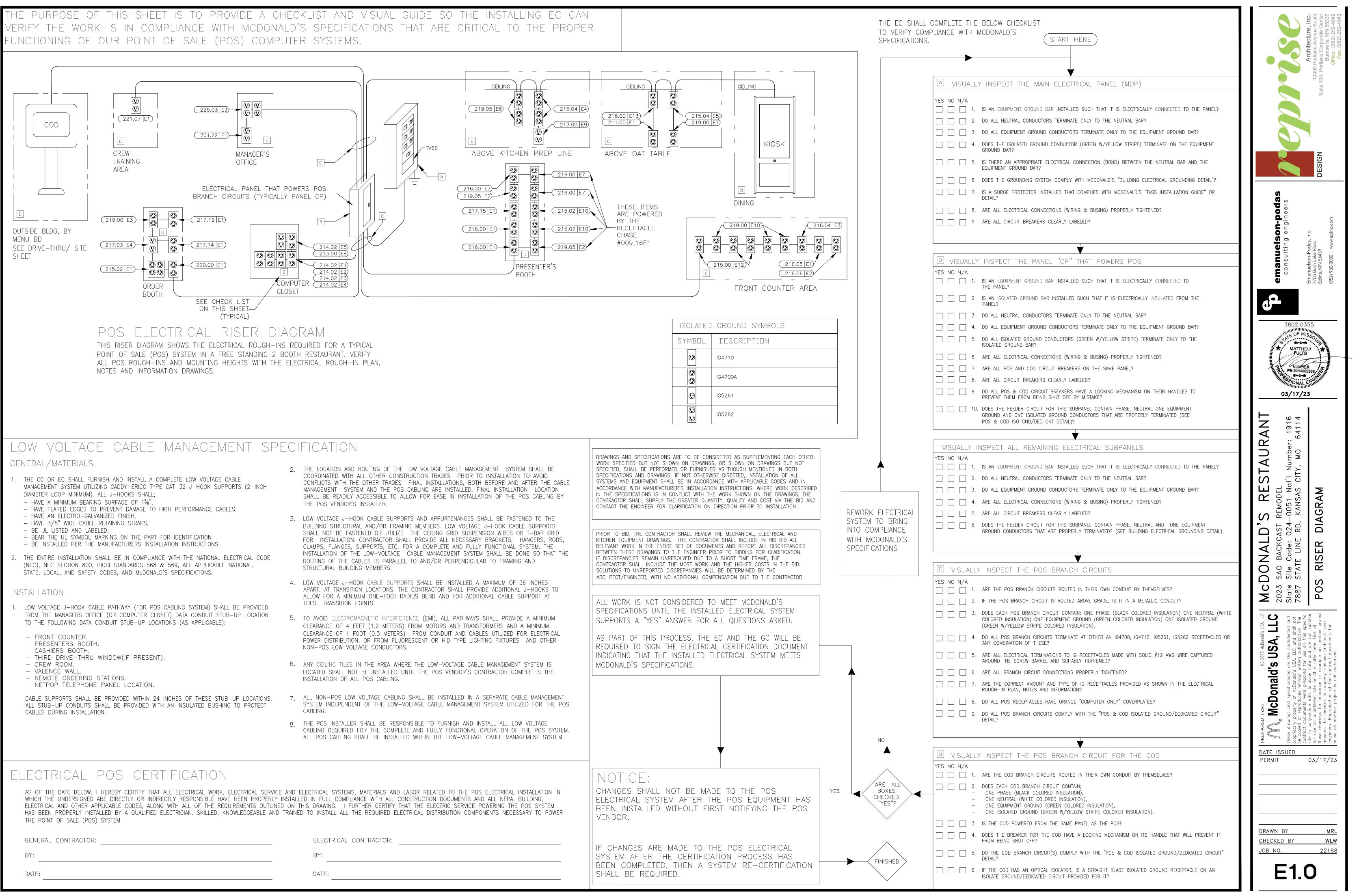
2.

3. ITEMS SHOWN DASHED ARE TO BE REMOVED. 4. EXISTING EXIT AND EMERGENCY LIGHTS ARE TO REMAIN, UNLESS NOTED OTHERWISE.

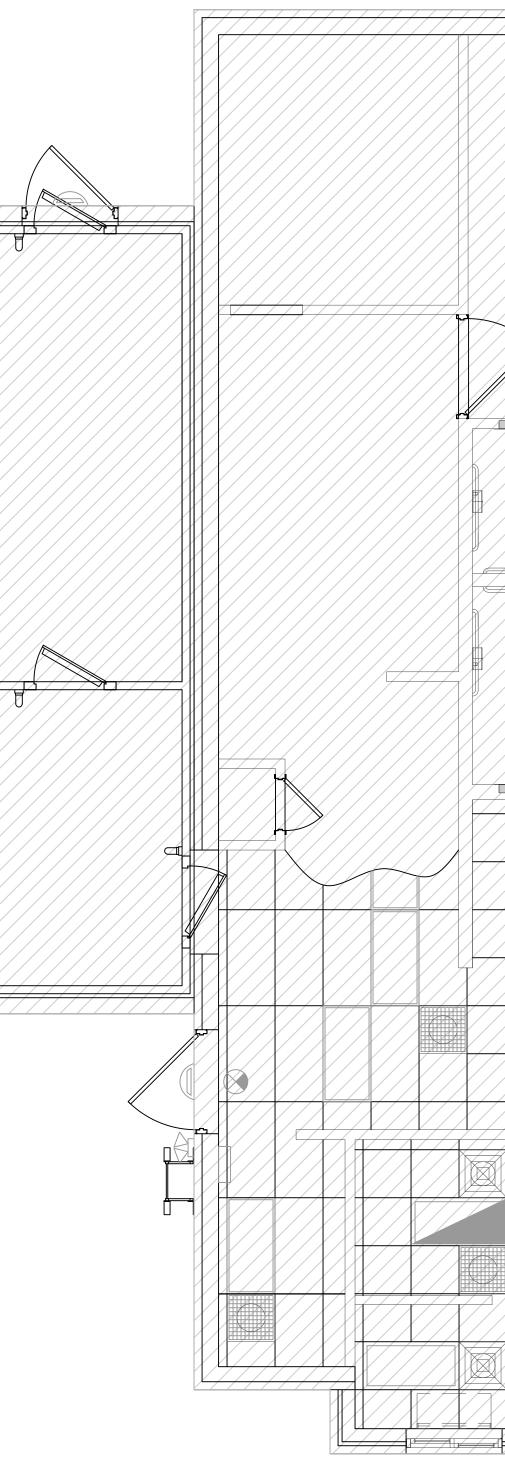
DEVICES AND WIRING SHOWN ARE FROM PREVIOUS CONSTRUCTION PROJECTS AND EXISTING CONDITIONS MAY VARY FROM PLAN DRAWINGS.

GENERAL NOTES: 1. REFER TO NOTES, SCHEDULES AND DETAILS DRAWING FOR ADDITIONAL NOTES.





		NG FIXTL		1			1	
MARK	SYMBOL	DESCRIPTION	DIFFUSER		AMPS T	BALLAST	MOUNTING	MANUFACTURER AND C
	STMBOL		Dirrogen	WATTS	TYPE			
2		2'X 4'GRID TROFFER	PRISMATIC ACRYLIC	44W	LED	-	RECESSED	SECURITY LIGHTING: #LCAT24-
12DP	0	4" LED DOWNLIGHT - GOLD TRIM - DELIVERY POD	_	9W	LED	_	RECESSED	SECURITY LIGHTING #LB4A-6LD-30K-9-GD/IBX4 WITH DELIVER POD)
LS1. FLUORI SECUR A. SHE B. PLAS C. LAY- D. PRO LS2. ORDER - F IF T LS3. ALL IN LS4. LIGHTIN	ESCENT LIGHT ITY LIGHTING ET METAL SH STIC LENSES -IN FIXTURES VIDE FLANGE LED EXIT SI OR RED LETT OR RED LETT OR GREEN LI HE ABOVE EX ER SIZE, CO TERIOR LIGHT IG FIXTURES	JLE NOTES: FIXTURE PERFORMANCE SPECIF THAT MEET OR EXCEED THE FOI ALL BE MINIMUM 22 GAGE STEEI SHALL BE PRISMATIC ACRYLIC. A SHALL HAVE HINGED, GASKETED KITS FOR ALL INSTALLATION IN GNS WITH LETTER COLORS THAT TERS USE #PRB (UNIVERSAL), ETTERS USE #PGB (UNIVERSAL), ETTERS USE #PGB (UNIVERSAL), KIT SIGNS DO NOT COMPLY WITH LOR, TYPE & DIRECTIONAL ARRO FIXTURES SHALL BE 120 VOLT AND LAMPS HAVE BEEN CHOSEN	LOWING REQUIREMEN L. WHITE ENAMEL PA 12 PATTERN, UNLES DROP DOWN DOOR GYPSUM BOARD CEIL COMPLY WITH LOCA OR LOCAL CODES USE: WS AS REQUIRED BY UNLESS NOTED OTH I TO ACHIEVE MAXIM	NTS: INTED. S NOTED OTH FRAMES. LING. VERIFY L CODES FRC LED SIGN W THE LOCAL IERWISE. UM ENERGY (IERWISE. IN THE FIELD. IM SECURITY LIG ITH BATTERY BAC AUTHORITIES.	HTING. EL2. EM EL2. EM EL2. EM EM EL3. PF EL3. PF QU DL OF AN	STALLATION OF THE EMERG IOWN ON THIS SHEET. EGRESS. IF FIELD CONDIT EGRESS. IF FIELD CONDIT ERGENCY LIGHTING, SHALL OVIDE EMERGENCY BATTER OVIDE ONE INVERTER FOR JANTITY OF INVERTERS REQ JAL-LITE #LG1T EMERGENC RDER INDOOR, ID PLAY PLAC	TACTURER, EC SHALL BE RESPONSIBLE FOR ENCY INVERTER BALLAST IN NIGHT LIGHTI EEN DESIGNED PER NFPA 101 TO MAINTA TIONS REQUIRE ANY CHANGES TO LIGHTIN BE INSTALLED TO MEET THE ABOVE REC A MAXIMUM SIX FIXTURES PER INVERTER QUIRED WITH THE NUMBER OF LED FIXTURES OUTDOOR, EMERGEN CE LIGHT FIXTURES
FOLLOV CORPO	VED. ANY DE' RATION.	ATE LEVEL OF ILLUMINATION. LAN VIATION FROM LAMP SPECIFICATIO IL BE ORDERED WITH LOW WATTA	NS SHALL BE APPR	oved in writ	ING BY McDONA	LD'S (A 108 TURER. BUI	CURITY LIGHTING SYSTEM HUBBELL LIGHTING COM 35 JOHNSON DRIVE FFALO GROVE, IL. 60089 800–544–4848 FAX 84	PHONE: 760-4 EMAIL: MCD@C 9 WWW.CSILLUMIN



DENDTES FIXTURE TYPE DENDTES CIRCUIT

NUMBER -----

FROM: ONS 477-1244 CSILLUMINATION.COM NATION.COM/MCD

NCY

ENCY DOWN LIGHTS. ER. VERIFY EXACT JRES. PROVIDE

TAIN 1 FC IN PATH NG DESIGN, QUIREMENTS.

FOR THE COMPLETE ITING FIXTURES

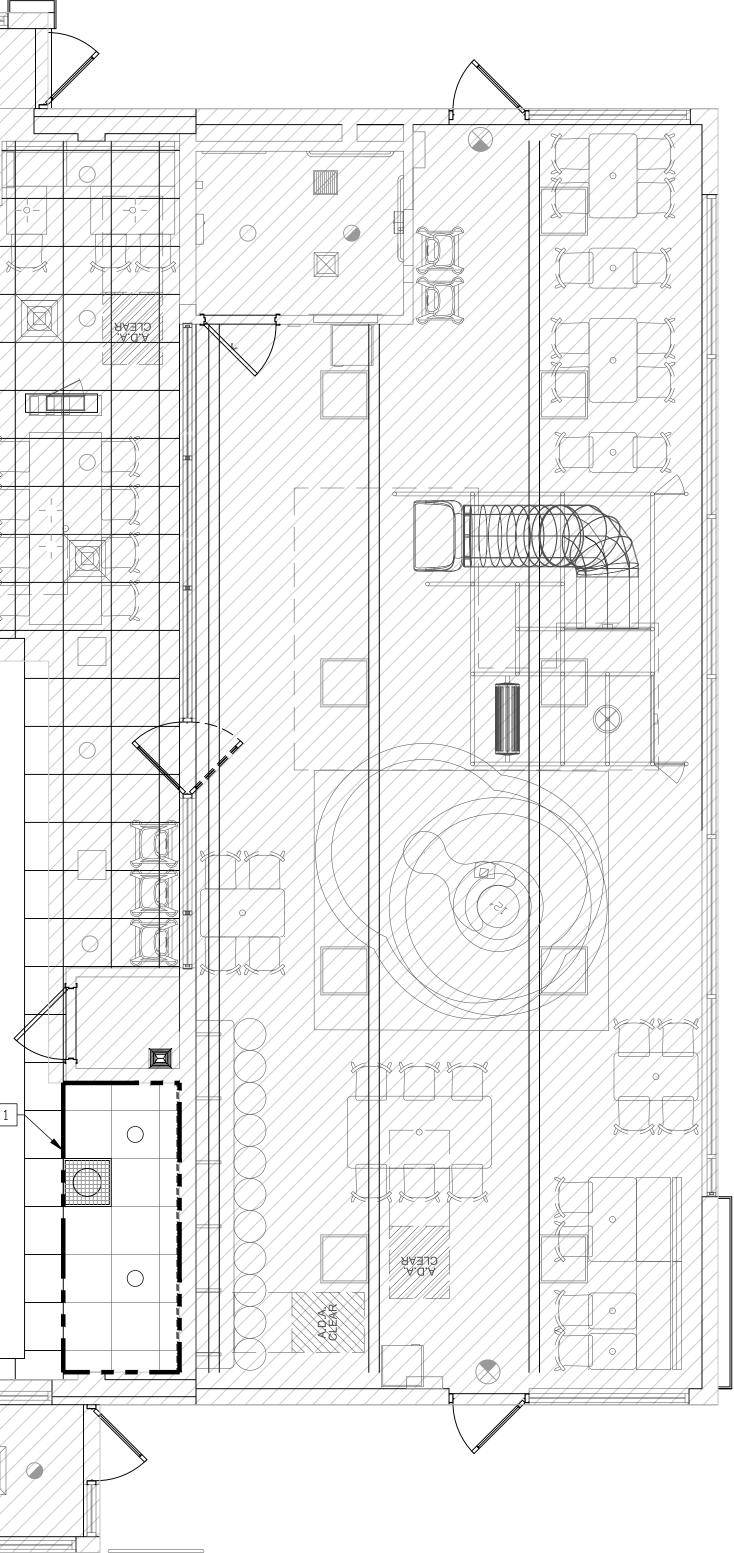
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CATA

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F2 39		
	F2 41 39	
36	59	

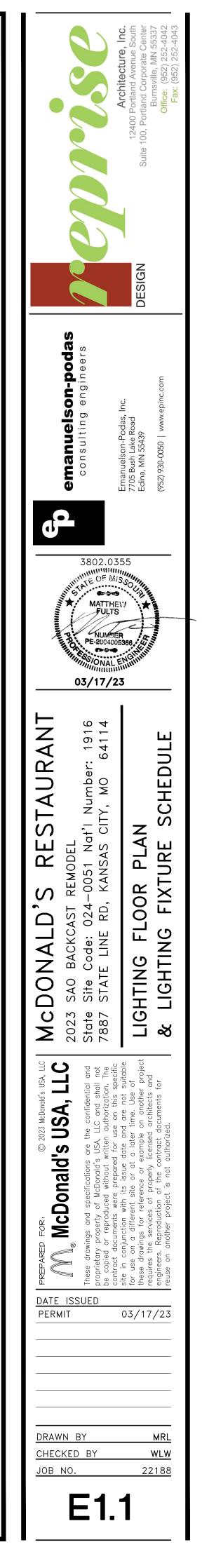


GENERAL NOTES:

- 1. REFER TO NOTES, SCHEDULES AND DETAILS DRAWING FOR ADDITIONAL NOTES.
- 2. CIRCUIT NUMBERS SHOWN ARE FOR DESIGN INTENT ONLY.
- 3. REFER TO LIGHTING FIXTURE SCHEDULE DRAWING FOR FIXTURE SCHEDULE NOTES.
- 4. NO ADDITIONAL LIGHTING LOADS ADDED FOR COMPLIANCE OF ENERGY CODE.
- CIRCUIT EXTERIOR EMERGENCY EGRESS FIXTURE TO SAME CIRCUIT AS EXTERIOR LIGHTING IN AREA. BYPASS ALL SWITCHING. PROVIDE DELAYED OFF FEATURE ON EMERGENCY LIGHT.

KEY NOTES

- 1 RE-USE EXISTING CAN LIGHTS IN THE DINING AREA AS NEEDED TO MATCH EXISTING. CIRCUIT NEW LIGHTING IN THIS ROOM TO ORIGINAL ROOM LIGHTING CIRCUIT. VERIFY CIRCUIT LOAD TO NOT OVERLOAD CIRCUIT. PROVIDE NEW CIRCUIT IF REQUIRED. MATCH EXISTING LIGHTS. VERIFY WITH McD'S ACM.
- 2 CIRCUIT NEW LIGHTING IN THIS ROOM TO ORIGINAL ROOM LIGHTING CIRCUIT. VERIFY CIRCUIT LOAD TO NOT OVERLOAD CIRCUIT. PROVIDE NEW CIRCUIT IF REQUIRED. VERIFY WITH McD'S ACM.



GENERAL NOTES:

- REFER TO NOTES, SCHEDULES AND DETAILS DRAWING FOR ADDITIONAL NOTES.
- CIRCUIT NUMBERS SHOWN ARE FOR REFERENCE ONLY.

BEST ORB/MENU BOARD VISIBILITY.

- ALL 120V 20A SINGLE PHASE CIRCUITS IN KITCHEN SHALL BE GFI PROTECTED.
- SEE ELECTRICAL SCHEDULE FOR PANEL & CIRCUIT BREAKER ASSIGNMENT, VOLT/PH, FLA, BREAKER SIZE, COND/WIRE, RECEPTACLE TYPE, HEIGHT ABOVE FINISHED FLOOR, REQUIREMENTS & REMARKS FOR ALL ELECTRICAL EQUIPMENT.
- VERIFY OEP DROP CORDS DO NOT FALL BELOW HEIGHTS LISTED ON ELECTRICAL SCHEDULE. RECEPTACLES SHOULD BE LOCATED AT HEIGHTS TO AVOID CONTACT WITH HOT APPLIANCES.

KEY NOTES

- 1 PROVIDE AND CONNECT NEW MONITORS. EXTEND EXISTING CIRCUITS AND WIREWAYS TO NEW LOCATIONS. REFER TO RECESSED MENU BOARDS DETAIL.
- 2 ORB MONITOR TO BE CEILING MOUNTED ABOVE PICKUP TO BE PLACED FOR
- 3 PROVIDE 5-20R RECEPTACLE FOR MODEM/GATEWAY (TYPICALLY LOCATED BEHIND VALENCE AT 7'-9'' A F F) PROVIDE 2#12 1#12 GRD TO AVAILABLE SPARE VALENCE AT 7'-9" A.F.F.).PROVIDE 2#12, 1#12 GRD TO AVAILABLE SPARE 20A/1P BREAKER.
- 4 RECONNECT EXISTING KIOSK SAVED DURING DEMOLITION. EXTEND EXISTING CIRCUITS AND WIREWAYS TO NEW LOCATIONS.
- 5 PROVIDE 5-20R RECEPTACLE FOR LOCATOR CHARGER (TYPICALLY LOCATED IN MANAGER'S OFFICE). PROVIDE 2#12, 1#12 GRD TO AVAILABLE SPARE 20A/1P BREAKER.
- 6 NEW LOCATION FOR RELOCATED KES PANEL. EXTEND EXISTING CIRCUITS TO NEW LOCATION AND RECONNECT.

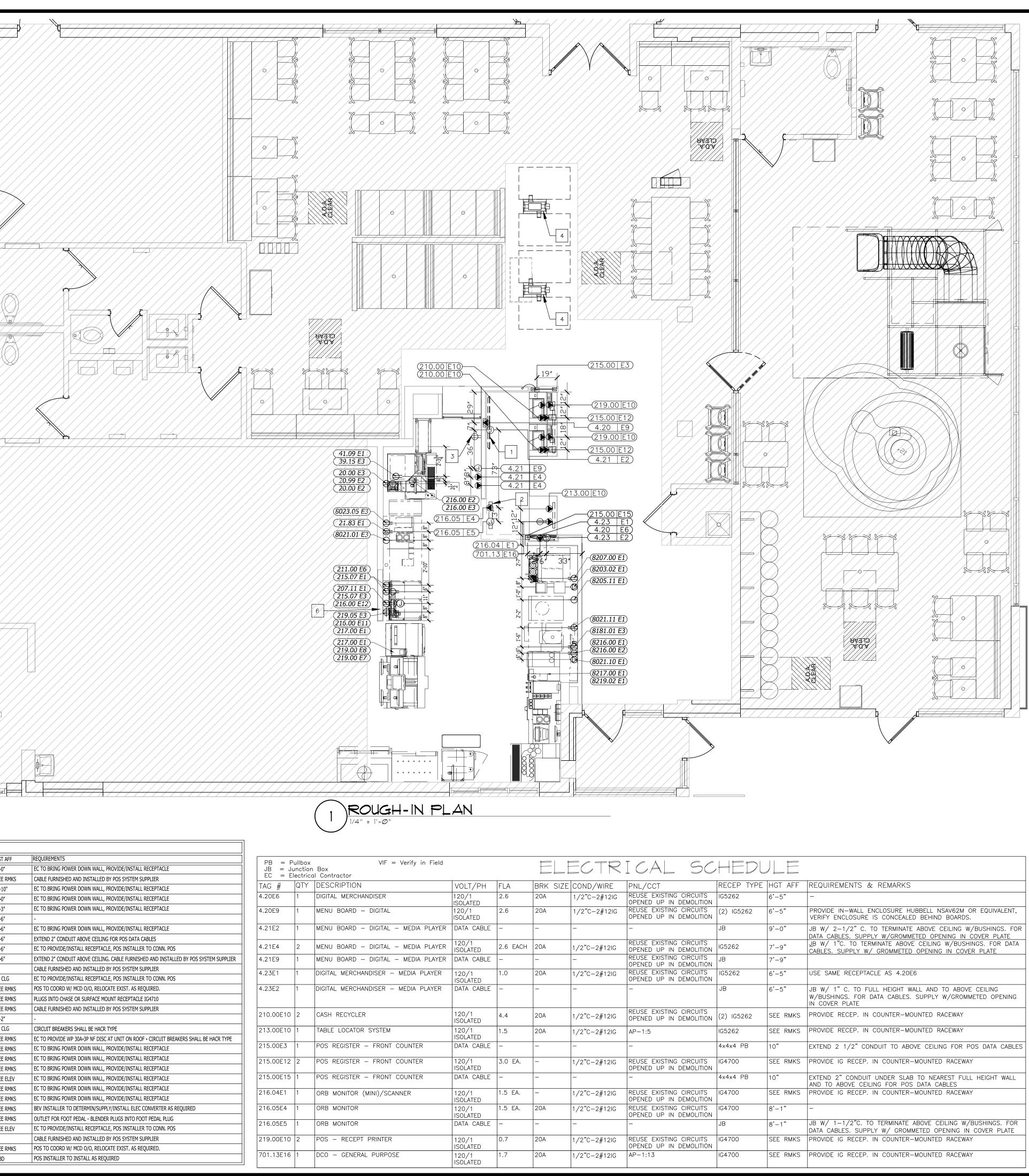
1 # QTY					ECTRICAL SCHE												
	Y ITEM DESCRIPTION	VOLT PHASE	FLA DRAW	HP	RECEP TYPE	BRKR SIZE	COND WS	PNL CKT	HGT AFF	REQUIREMENTS	PB = Pullbox	VIF = Verify in Field			⊨ = ⊨	= / == ==	
00 E2 1	AUTOMATED BEVERAGE SYSTEM	120/1	5.0	-	5-20R	20A	1/2"C-2#12	REUSE EXISTING OPENED IN DEMO) 2'-0"	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE	JB = Junctior	n Box				ECTR	. 1 C f
00 E3 1	AUTOMATED BEVERAGE SYSTEM	DATA CABLE	-	-	-	-	-	-	SEE RMKS	CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER		al Contractor					
99 E2 1	ABS PRECOOLER	120/1	14.9	-	5-20R	20A	1/2"C-2#12	REUSE EXISTING OPENED IN DEMO) 3'-10"	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE	TAG # QTY	DESCRIPTION	VOLT/PH	FLA		COND/WIRE	PNL/CO
.11 E1 1	BASE REFRIGERATOR	120/1	3.2	-	5-20R	20A	1/2"C-2#12	AP-1:5	2'-0"	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE	4.20E6 1	DIGITAL MERCHANDISER	120/1 ISOLATED	2.6	20A	1/2"C-2#12IG	REUSE E OPENED
33 E1 1	SUGAR DISPENSER	120/1	0.6		5-20R	20A SEE RMKS	1/2"C-2#12		2'-3"	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE	4.20E9 1	MENU BOARD – DIGITAL	120/1	2.6	20A	1/2"C-2#12IG	REUSE E
.00 E6 1	DELIVERY TABLET	120/1	3.0	-	(2)5-20R	20A	1/2"C-2#12	AP-1:13	5'-6"	-			ISOLATED			.,	OPENED
.07 E1 1	POS REGISTER - DELIVERY	120/1 ISOLATED	3.0	-	IG4700	20A	1/2"C-2#12IG	REUSE EXISTING OPENED IN DEMO) 3'-6"	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE	4.21E2 1	MENU BOARD – DIGITAL – MEDIA PLAYER	DATA CABLE	-	-	_	-
.07 E3 1	POS REGISTER - DELIVERY	-	-	-	4x4x4 PB	-	-	-	3'-6"	EXTEND 2" CONDUIT ABOVE CEILING FOR POS DATA CABLES			120/1				REUSE E
.00 E11 1	POS - VIDEO MONITOR	120/1 ISOLATED	1.5 EA.	-	IG4700	20A	1/2"C-2#12IG	REUSE EXISTING OPENED IN DEMO) 5'-6"	EC TO PROVIDE/INSTALL RECEPTACLE, POS INSTALLER TO CONN. POS	4.21E4 2	MENU BOARD – DIGITAL – MEDIA PLAYER	ISOLATED	2.6 EACH	20A -	1/2"C-2#12IG	OPENED
.00 E12 1	POS - VIDEO MONITOR	DATA CABLE	-	-	4x4x4 PB	-	-	-	5'-6"	EXTEND 2" CONDUIT ABOVE CEILING. CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER	4.21E9 1	MENU BOARD – DIGITAL – MEDIA PLAYER	DATA CABLE	-	-	_	REUSE E
.00 E2 1	POS - VIDEO MONITOR	DATA CABLE	-	-	-	-	-	-		CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER	4.23E1 1	DIGITAL MERCHANDISER – MEDIA PLAYER	120/1	1.0	20A ·	1/2"C-2#12IG	OPENED REUSE E
.00 E3 1	POS - VIDEO MONITOR W/SUPPORTS	120/1 ISOLATED	1.5 EA,	-	IG4700	SEE RMKS	1/2"C-2#12IG	REUSE EXISTING OPENED IN DEMO) @ CLG	EC TO PROVIDE/INSTALL RECEPTACLE, POS INSTALLER TO CONN. POS	4.20L1	DIGITAL MERCHANDISER - MEDIA PLATER	ISOLATED	1.0	204	1/2 C-2#12IG	OPENED
.00 E1 2	PARK/ROTATE/SERVE BUMP BAR	DATA CABLE	-	-	-	-	-	EXISTING/RELOCATED	SEE RMKS	POS TO COORD W/ MCD O/O, RELOCATE EXIST. AS REQUIRED.	4.23E2 1	DIGITAL MERCHANDISER – MEDIA PLAYER	DATA CABLE	-	-	_	-
.00 E7 1	POS - RECEIPT PRINTER	120/1 ISOLATED	0.7	-	IG4710	20A	1/2"C-2#12IG	REUSE EXISTING OPENED IN DEMO) SEE RMKS	PLUGS INTO CHASE OR SURFACE MOUNT RECEPTACLE IG4710							
.00 E8 1	POS - RECEIPT PRINTER	DATA CABLE	-	-	-	-	-	•	SEE RMKS	CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER		CASH RECYCLER	120 /1			· · · ·	REUSE E
.05 E3 1	STICKY LABEL PRINTER	120/1 ISOLATED	0.7	-	IG4700	20A	1/2"C-2#12IG	REUSE EXISTING OPENED IN DEMO) 3'-2"	-	210.00E10 2	CASH RECYCLER	120/1 ISOLATED	4.4	20A	1/2"C-2#12IG	OPENED
15 E3 1	ICE MACHINE - 1000 LB.	120/1	1.1	1 1/2	5-15R	15A	1/2"C-2#12	AP-3:41	@ CLG	CIRCUIT BREAKERS SHALL BE HACR TYPE	213.00E10 1	TABLE LOCATOR SYSTEM	120/1	1.5	20A -	1/2"C-2#12IG	AP-1:5
09 E1 1	ICE MACHINE REMOTE CONDENSER - 1000 LB.	208/3	10.8		SEE RMKS	15A SEE RMKS	1/2"C-3#12	EP-(7,9,11)	SEE RMKS	EC TO PROVIDE WP 30A-3P NF DISC AT UNIT ON ROOF - CIRCUIT BREAKERS SHALL BE HACR TYPE			ISOLATED			,	
1.01 E3 1	RELOCATED COFFEE BREWER	VERIFY	VERIFY DRAW	VERIFY	VERIFY	20A SEE RMKS	VERIFY	REUSE EXISTING	SEE RMKS	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE	215.00E3 1	POS REGISTER – FRONT COUNTER	DATA CABLE	-	- -	_	-
1.10 E1 1	RELOCATED SPECIALTY COFFEE	VERIFY	VERIFY DRAW	VERIFY	VERIFY	30A SEE RMKS	VERIFY	REUSE EXISTING	SEE RMKS	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE	215.00E12 2	POS REGISTER – FRONT COUNTER	120/1	3.0 EA.		1/2"C-2#12IG	REUSE E
1.11 E1 1	RELOCATED SMOOTHIE MACHINE	VERIFY	VERIFY DRAW	VERIFY	VERIFY	20A SEE RMKS	VERIFY	REUSE EXISTING	SEE RMKS	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE			ISOLATED			.,	OPENED
3.05 E3 1	RELOCATED CREAM DISPENSER	VERIFY	VERIFY DRAW	VERIFY	VERIFY	VERIFY BREAKER	VERIFY	REUSE EXISTING	SEE ELEV	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE	215.00E15 1	POS REGISTER – FRONT COUNTER	DATA CABLE	-	-	_	-
1.01 E3 1	RELOCATED REFRIGERATOR- SPECIALTY COFFEE - 27" WIDE	VERIFY	VERIFY DRAW	VERIFY	VERIFY	VERIFY BREAKER	VERIFY	REUSE EXISTING	SEE RMKS	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE	216.04E1 1	ORB MONITOR (MINI)/SCANNER	120/1	1.5 EA.		1/2"C-2#12IG	REUSE E
3.02 E1 1	RELOCATED HEAT TREAT COMBINATION SHAKE/SUNDAE MACHI	NE VERIFY	VERIFY DRAW	VERIFY	VERIFY	VERIFY BREAKER	VERIFY	REUSE EXISTING	SEE RMKS	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE			ISOLATED			·/ 2 0 2# 1210	OPENED
5.11 E1 1	FROZEN CARBONATED BEVERAGE	VERIFY	VERIFY DRAW	VERIFY	VERIFY	VERIFY BREAKER	VERIFY	REUSE EXISTING	SEE RMKS	BEV INSTALLER TO DETERMIN/SUPPLY/INSTALL ELEC CONVERTER AS REQUIRED	216.05E4 1	ORB MONITOR	120/1	1.5 EA.	20A *	1/2"C-2#12IG	REUSE E
7.00 E1 1	RELOCATED BLENDER - MCFLURRY - COUNTERTOP	VERIFY	VERIFY DRAW	VERIFY	VERIFY	VERIFY BREAKER	VERIFY	REUSE EXISTING	SEE RMKS	OUTLET FOR FOOT PEDAL - BLENDER PLUGS INTO FOOT PEDAL PLUG	216.05E5 1	ORB MONITOR	ISOLATED DATA CABLE	<u> </u>	+	_	OPENED
6.00 E1 1	RELOCATED POS - VIDEO MONITOR	VERIFY	VERIFY DRAW	VERIFY	VERIFY	VERIFY BREAKER	VERIFY	REUSE EXISTING	SEE ELEV	EC TO PROVIDE/INSTALL RECEPTACLE, POS INSTALLER TO CONN. POS			DATA CADLE		-		
6.00 E2 1	RELOCATED POS - VIDEO MONITOR	VERIFY	VERIFY DRAW	VERIFY	VERIFY	VERIFY BREAKER	VERIFY	REUSE EXISTING		CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER	219.00E10 2	POS – RECEPT PRINTER	120/1	0.7	20A ·	1/2"C-2#12IG	REUSE E
7.00 E1 1	RELOCATED PARK/ROTATE/SERVE BUMP BAR	VERIFY	VERIFY DRAW	VERIFY	VERIFY	VERIFY BREAKER	VERIFY	EXISTING/RELOCATED	SEE RMKS	POS TO COORD W/ MCD O/O, RELOCATE EXIST. AS REQUIRED.	701 17540 4		ISOLATED	1 7		1 (0"0 0" : 0:-	OPENED
9.02 E1 1	RELOCATED POS - RECEIPT PRINTER	VERIFY	VERIFY DRAW	VERIFY	VERIFY	VERIFY BREAKER	VERIFY	-	TBD	POS INSTALLER TO INSTALL AS REQUIRED	701.13E16 1	DCO – GENERAL PURPOSE	120/1 ISOLATED	1./	20A ·	1/2"C-2#12IG	AP-1:13

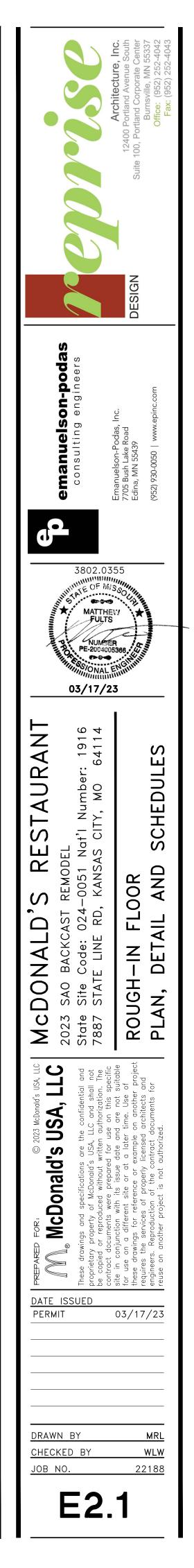
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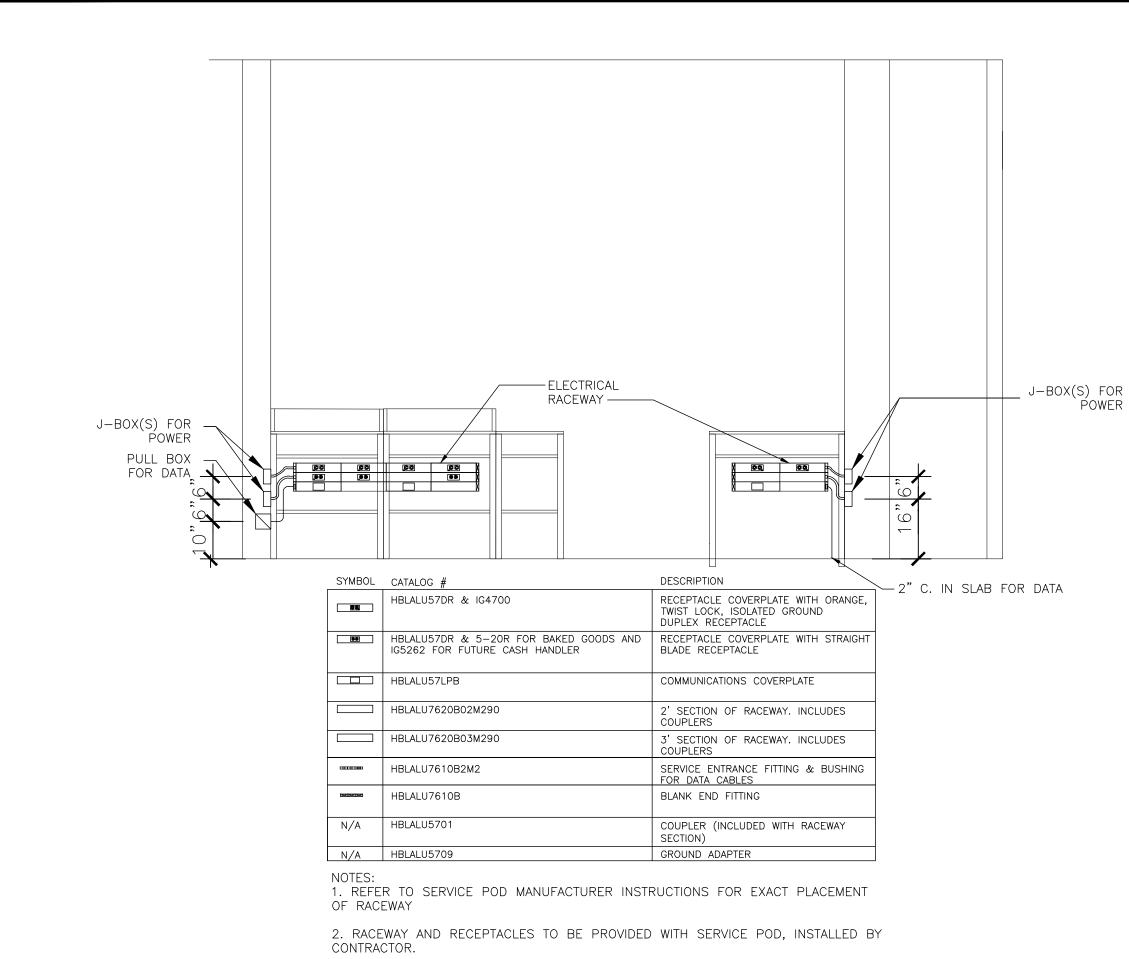
ELECTRICAL

PANEL

ELECTRICAL PANEL



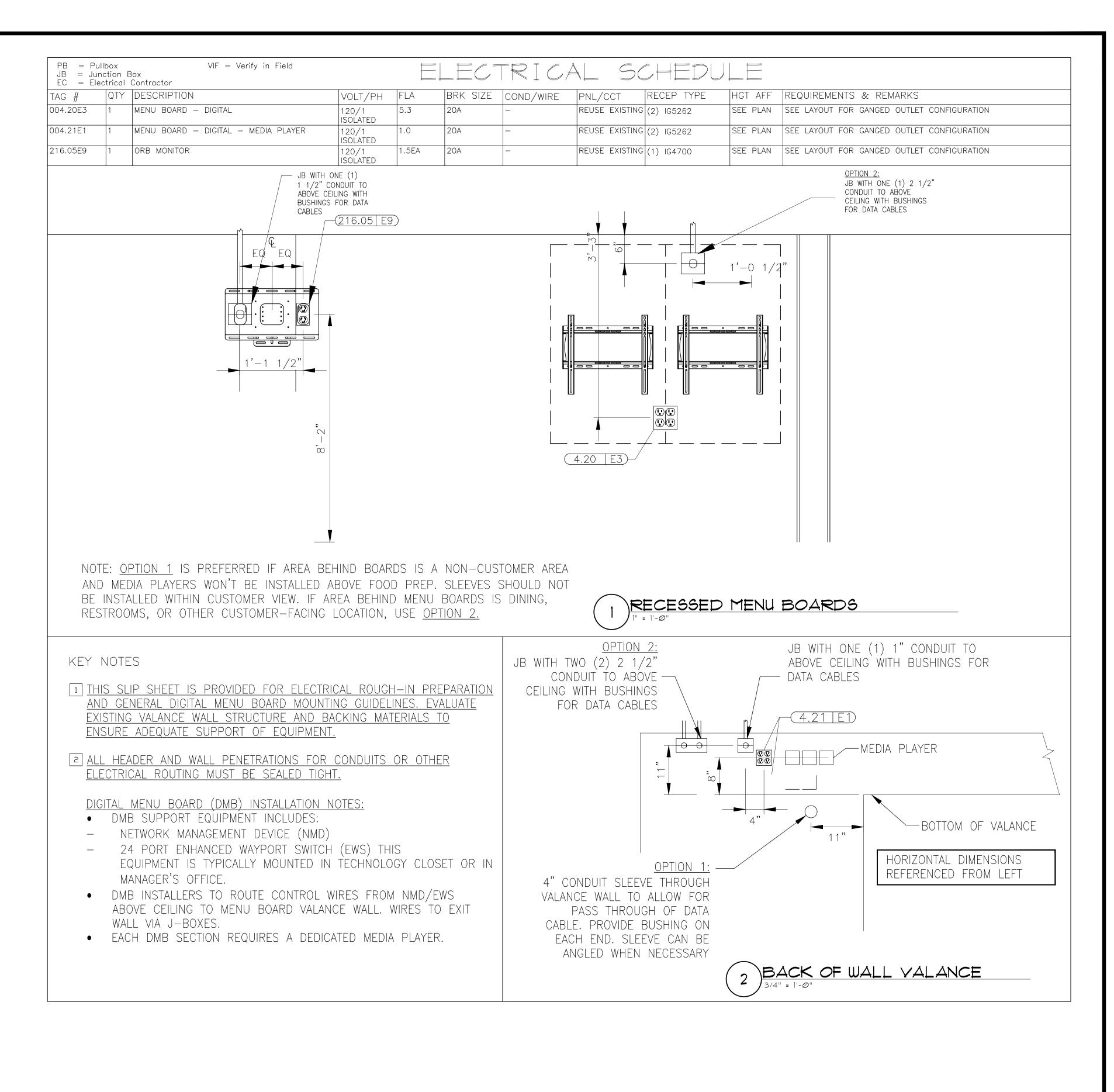


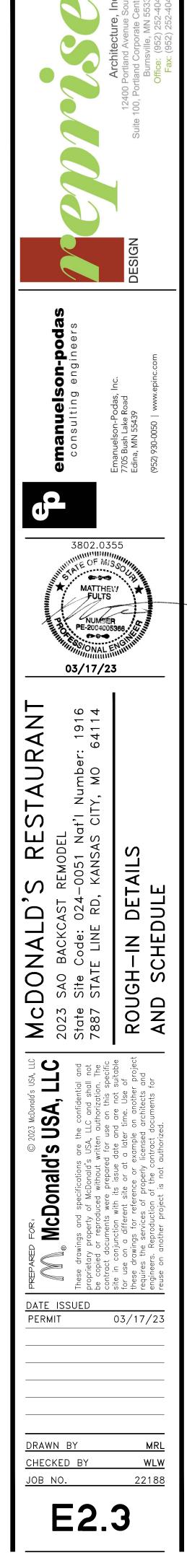


3. DETAIL SHOWN IS A TYPICAL CONFIGURATION ONLY. SITE SPECIFICS MIGHT CAUSE



DEVIATIONS.





GENERAL ELECTRICAL NOTES: THE ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A

- COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM/INSTALLATION.
- MATERIALS AND INSTALLATION SHALL COMPLY WITH ALL CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
- ALL MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA, OR ANOTHER RECOGNIZED TESTING LABORATORY.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES, UTILITY COMPANIES, AND LOCAL CODE OFFICIALS, SHOP DRAWINGS AND/OR INSTALLATION DETAILS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, ENGINEER, AND PROJECT MANAGER IN WRITING OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES, OR REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE FIRE PREVENTION BUREAU ALL DOCUMENTS, INCLUDING DRAWINGS AND SUBMITTALS, REQUIRED TO OBTAIN APPROVAL OF THE EMERGENCY LIGHTING, LIFE SAFETY, AND EXIT SIGN SYSTEM(S) FOR TYPES AND LOCATIONS. A COPY OF THE APPROVED DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AND ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- ALL NEW ELECTRICAL WORK OR MODIFICATIONS TO EXISTING ELECTRICAL DISTRIBUTION PANELS, PANELBOARDS, METERS, ETC. SHALL BE INSTALLED AS INDICATED ON THE ELECTRICAL CONSTRUCTION DOCUMENTS. E.C. SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT TO BE INSTALLED INDICATING FLOOR PLAN LAYOUT, ELEVATIONS, AND ALL DIMENSIONS FOR APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION. CODE REQUIRED CLEARANCES IN FRONT OF ALL ELECTRICAL EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL INCLUDE IN BID AN ALLOWANCE FOR THE FOLLOWING ADDITIONAL LIFE SAFETY DEVICES, INCLUDING INSTALLATION AND ALL CONDUIT AND WIRE, FOR ADDITIONAL DEVICES AS MAY BE REQUIRED BY THE REVIEW OF THE AUTHORITY HAVING JURISDICTION. (2) EXIT SIGN FIXTURES
- (2) EMERGENCY LIGHTING FIXTURES CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR EACH FOR QUANTITY ADJUSTMENT.
- 10. THE CONTRACTOR SHALL INCLUDE IN BID ELECTRICAL UNIT PRICES (EUP) TO PROVIDE ADDITIONAL LIFE SAFETY DEVICES WITHIN FINISHED CEILING SYSTEMS, INCLUDING ALL CONDUIT AND WIRE, FOR EACH TYPE OF DEVICE AS SCHEDULED IN NOTE NUMBER 9. THE UNIT PRICE SHALL INCLUDE ALL GENERAL CONTRACTOR ASSOCIATED COSTS TO INSTALL DEVICES WITHIN INSTALLED CEILING SYSTEMS.
- THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, MAKE A SCHEDULED ARRANGEMENT WITH THE PROJECT MANAGER TO VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
- 2. THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND WIRING FOR THE PERFORMANCE OF ALL TRADES, FOR THE ENTIRE PERIOD OF CONSTRUCTION AND SHALL REMOVE ALL TEMPORARY WIRING AT THE COMPLETION OF CONSTRUCTION. ALL COSTS FOR ESTABLISHING AND REMOVING TEMPORARY POWER SHALL BE INCLUDED IN BID.
- 3. THE EXISTING POWER, SIGNAL, AND COMMUNICATIONS SYSTEMS ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE OWNER'S EXISTING FUNCTIONS. SHOULD IT BECOME NECESSARY TO SHUT-DOWN ANY SYSTEM OR PORTION OF A SYSTEM, APPROVAL IN WRITING MUST BE OBTAINED FROM THE PROJECT MANAGER AND SHALL BE ONLY FOR THE PERIOD AND TIME AGREED UPON. THE BID IS TO INCLUDE THE COST OF ANY TEMPORARY WIRING AND PREMIUM TIME REQUIRED FOR THE SHUTDOWN.
- 14. ALL MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, TOOLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
- 15. ALL CUTTING, DRILLING, AND PATCHING OF MASONRY, DRYWALL, CONCRETE, STEEL, OR IRON WORK BELONGING TO THE BUILDING SHALL BE DONE BY THIS CONTRACTOR IN ORDER THAT WORK MAY BE PROPERLY INSTALLED. UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.
- 6. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS, AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS (FOR EXAMPLE ALL LIGHTING FIXTURES). PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
- 17. SUBMIT FOUR (4) COPIES OF THE FOLLOWING SHOP DRAWINGS FOR REVIEW:
- A. LIGHTING FIXTURES AND LAMPS
- B. WIRING DEVICES
- C. LOW VOLTAGE RELAYS AND SWITCHES
- D. DIMMERS AND CONTROLS
- 8. CONTRACTOR SHALL PROVIDE "AS-BUILT" DOCUMENTATION AND HARD COPY REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE PROJECT AND SUBMIT TO THE ARCHITECT AND THE ENGINEER. AS-BUILT DRAWINGS SHALL INDICATE EXACT CIRCUIT NUMBERS, LOCATIONS OF ALL DEVICES, CEILING FIXTURES, AND RACEWAY FOR LIGHTING, TELECOMMUNICATIONS AND POWER DISTRIBUTION SYSTEMS AS INSTALLED.
- 19. ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW AND OF COMMERCIAL GRADE UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED ON DRAWINGS.
- 20. EXCEPT AS NOTED OTHERWISE, ALL WORK REQUIRED FOR THE ELECTRICAL INSTALLATION AS SHOWN ON DRAWINGS SHALL INCLUDE ALL LABOR, INSTALLATION METHODS, EQUIPMENT, AND MATERIALS AND SHALL BE IN STRICT COMPLIANCE WITH ALL BUILDING STANDARDS.
- 21. PROVIDE A COMPLETE METAL RACEWAY SYSTEM, FITTINGS AND ENCLOSURES FOR ALL ELECTRICAL WIRING SYSTEMS TO BE INSTALLED FOR THE PROJECT. SYSTEMS SHALL INCLUDE, BUT NOT BE LIMITED TO POWER, COMMUNICATIONS, SECURITY, PAGING, TEMPERATURE CONTROL AND CONTROLS. 22. NOT USED.
- 23. MINIMUM CONDUIT SIZE SHALL BE 1/2 INCH FOR GENERAL LIGHTING AND POWER CIRCUITRY UNLESS OTHERWISE INDICATED AND/OR REQUIRED BY CODE.
- 24. FLEXIBLE CONDUIT CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH FLEXIBLE STEEL CONDUIT, 1/2 INCH MINIMUM, INCLUDING AN INSULATED COPPER GREEN EQUIPMENT GROUNDING CONDUCTOR OR SHALL BE MADE WITH METAL CLAD TYPE CABLE.

BASED ON CURRENT NEC

DRAWING NOTES

CONDUIT AND WIRE:

- W1. THE FOLLOWING WIRING METHODS SHALL NOT BE USED: NON-METALLIC SHEATHED CABLE (ROMEX, NM, NMC, & NMS), ARMORED CABLE TYPE AC (BX), EL3. LED FIXTURES DENOTED AS NIGHT LIGHTING OR SWITCHED EMERGENCY SHALL BE APPROVED WITH DUAL LITE LIGHTING INVERTER MODEL # LG1251. ELECTRICAL NON-METALLIC TUBING, TYPE ENT (SMURF-TUBE). EXCEPTION: ENT ALLOWED FOR CABLE MANAGEMENT INSTALLED SURFACE MOUNTED TO THE INSIDE FACE OF THE BACK OF THE FRONT COUNTER.
- RUNS SHALL BE SIZED BASED ON DERATED CONDUCTOR AMPACITIES AND INCREASED CONDUIT AND WIRE SIZE AS REQUIRED BY THE NEC.
- W3. CONDUIT SHALL HAVE A MAXIMUM OF 4 BENDS WITHOUT A JUNCTION BOX TO PREVENT DAMAGE TO CABLE DURING PULLING. THE EC SHALL PIGTAIL #12 PULL WIRE AT EACH END FOR INSTALLER TO PULL CABLE. ALL LOW VOLTAGE CONDUIT STUB-UPS SHALL BE PROVIDED WITH A BUSHING. W4. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS NOTED OTHERWISE.
- WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW.
- W5. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER.

W6. RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS, INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES: INDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

1. EXPOSED: EMT, IMC.

- 2. CONCEALED: EMT, IMC.
- 3. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID OR MOTOR-DRIVEN EQUIPMENT): FMC; EXCEPT USE LFMC IN DAMP OR WET LOCATIONS. 4. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
- 5. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT AS FOLLOWS: A DAMP, WET OR KITCHEN LOCATION: NEMA 250, TYPE 4, STAINLESS STEEL. OUTDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)
- 1. EXPOSED: RMC, IMC.
- CONCEALED: RMC, IMC. 3. BELOW GRADE, SINGLE RUN: RNC, RMC.
- 4. BELOW GRADE, GROUPED: RNC, RMC.
- 5. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC.
- 6. BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR 4.

25. NOT USED.

- 26. WIRE NUMBER 8 AND SMALLER FOR USE IN INTERIOR DRY LOCATIONS SHALL BE TYPE THWN THERMOPLASTIC 600 VOLT INSULATED COPPER CONDUCTORS. FEEDERS AND POWER WIRING NUMBER 6 AND LARGER SHALL BE TYPE THW 600 VOLT INSULATED COPPER. WIRE WHICH IS INSTALLED IN RACEWAY IN MOIST OR DAMP LOCATIONS SHALL BE THW, 600 VOLT INSULATED COPPER CONDUCTORS. NO WIRE SMALLER THAN NUMBER 12 AWG SHALL BE USED FOR LIGHTING OR POWER
- 27. BRANCH CIRCUIT HOMERUN WIRING:
- PHASE, NEUTRAL AND GROUND CONDUCTORS INCREASED TO NUMBER 10 AWG, THWN AS A MINIMUM. WHERE HOMERUN (ONE OR MORE NETWORKS) EXCEEDS 100 LINEAR FEET, CONDUCTOR SIZE SHALL BE INCREASED ONE TRADE SIZE
- B. ALL BRANCH CIRCUITS, FEEDERS, AND HOMERUNS SHALL BE PROVIDED WITH AN INSULATED COPPER GREEN GROUNDING CONDUCTOR ROUTED IN THE SAME CONDUIT. GROUNDING CONDUCTOR SHALL BE SIZED PER THE REQUIREMENTS OF NEC.
- 28. ALL NEW CIRCUIT BREAKERS FOR EXISTING PANELBOARDS AND DISTRIBUTION PANELBOARDS SHALL MATCH EXISTING BUILDING PANELBOARD MANUFACTURER AND CIRCUIT BREAKER TYPE. ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. AIC RATING OF NEW CIRCUIT BREAKER SHALL MATCH AIC RATING OF DEVICES IN PANELBOARD IN WHICH IT IS INSTALLED. WHERE SERIES RATED TYPE CIRCUIT BREAKERS ARE USED. NEW CIRCUIT BREAKERS SHALL BE INSTALLED SO AS TO MAINTAIN THE UL SERIES RATING OF THE ENTIRE SYSTEM. THE CONTRACTOR SHALL PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY FOR EACH PANEL CHANGED AT THE COMPLETION OF THE PROJECT. EACH CIRCUIT BREAKER SHALL BE LABELED TO IDENTIFY LOAD TYPE AND LOCATION.
- 29. THE CONTRACTOR SHALL VERIFY THE CEILING CONSTRUCTION TYPE WITH ARCHITECTURAL DETAILS BEFORE ORDERING LIGHTING FIXTURES IN ORDER TO CONFIRM PROPER MOUNTING.
- 30. EACH SWITCH, LIGHT, RECEPTACLE, OR OTHER MISCELLANEOUS DEVICE SHALL BE PROVIDED WITH A GALVANIZED OR SHERARDIZED PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE, OF NOT LESS THAN NUMBER 14 U.S. GAUGE STEEL, CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS SHALL BE LEFT SEALED. THERE SHALL BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
- 31. NOT USED
- 32. IN SUSPENDED CEILINGS, SUPPORT CONDUITS AND JUNCTION BOXES DIRECTLY FROM THE STRUCTURAL SYSTEM, DECK OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SUPPORT WIRES OR SPLINE UNLESS. THE CEILING SYSTEM HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE AND APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND THE ENGINEER.
- 33. E.C. SHALL PROVIDE "3M" FIRESEAL SYSTEMS FOR ALL CORES AND RACEWAY PENETRATIONS IN FIRE RATED WALLS AND PARTITIONS. FIRE RATE WALL AND CEILING PENETRATIONS, ETC. USING "CP-25" CAULK, "303" PUTTY AND/OR "FLAMESEAL" PUTTY AS PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN EXISTING AND NEW FIRE RATINGS. VERIFY FIRE RATING CONDITIONS AND LOCATIONS PRIOR TO FINAL BIDS. ALL OPEN SLEEVE PENETRATIONS SHALL BE FIRESEALED INSIDE AND OUTSIDE BY E.C. AFTER ALL CABLING IS COMPLETELY INSTALLED. SEALING METHODS SHALL BE PROVIDED BY E.C. AND SHALL BE SUBJECT TO THE APPROVAL OF THE CABLING CONTRACTOR.
- 34. NOT USED 35. NOT USED
- 36. NUMBERED CIRCUITS SHOWN ON PLAN ARE FOR THE CONVEYANCE OF DESIGN INTENT ONLY. ACTUAL FIELD CONDITIONS WILL AFFECT CIRCUITRY. INDICATE THE ACTUAL CIRCUIT NUMBERS INSTALLED ON THE "AS-BUILT" DRAWINGS.
- 37. BUILDING STANDARDS
- A. ALL NEW CONDUIT RACEWAYS AND BOXES FOR ALL SYSTEMS SHALL BE INSTALLED TIGHT-UP TO THE BOTTOM OF THE STRUCTURAL BEAMS WHERE REQUIRED AND PROPERLY SUPPORTED FROM STRUCTURAL MEMBERS.
- B. ALL NEW CONDUIT RUNS SHALL BE INSTALLED ABOVE AND OVER THE TOP OF ALL NEW AND/OR EXISTING DUCTWORK, PIPING, CONDUITS, PULLBOXES, ETC. E.C. SHALL PROVIDE ALL NECESSARY ACCESSIBLE PULLBOXES. CONDUIT BENDS SHALL NOT EXCEED CODE REQUIREMENTS WITHIN A SINGLE RUN. E.C. SHALL PROVIDE ALL PULLBOXES AS REQUIRED. C. NEW CONDUIT RUNS OR PULLBOXES SHALL NOT BE INSTALLED LESS THAN 2 INCHES ABOVE
- RECESSED LIGHTING FIXTURES UNLESS APPROVED BY THE ENGINEER.
- D. NEW CONDUIT RUNS OR PULLBOXES SHALL NOT BLOCK OR PREVENT FULL AND COMPLETE ACCESS AND OPERATION OF NEW OR EXISTING HVAC EQUIPMENT, ACCESS DOORS, PIPING VALVES, JUNCTION BOXES, DUCT HEATERS, MAIN SUPPLY AND RETURN AIR DUCTS, PULLBOXES, CLEANOUTS, ETC.
- E. NEW CONDUIT AND PULLBOXES TO BE INSTALLED BELOW NEW OR EXISTING DUCTWORK SHALL BE MOUNTED TIGHT UP TO BOTTOM OF DUCT WITH 90 DEGREE BENDS UP SIDEWALL OF DUCT) MEET REQUIREMENTS OF LETTER C ABOVE - SUPPORTS SHALL NOT PENETRATE DUCTWORK AND SHALL BE INDEPENDENT OF ALL DUCTWORK SUPPORTS. DIRECT CONTACT OF CONDUIT RACEWAY SYSTEMS WITH DUCTWORK OR PIPING SHALL BE PROVIDED WITH VIBRATION SEPARATION METHOD APPROVED BY THE ENGINEER.
- F. NEW CONDUIT AND BOXES TO BE INSTALLED WITHIN ALL EXISTING FINISHED BUILDING DRYWALL, FURRED BUILDING WALLS, PARTITIONS, AND COLUMNS SHALL BE INSTALLED WITH EMT AND FLEXIBLE RACEWAYS NOT MORE THAN 6'-0" LONG. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL COSTS FOR DRYWALL ACCESS, CUTTING, PATCHING, PAINTING, ETC. IN BIDS FOR SUCH CONDITIONS. FIELD VERIFY ALL LOCATIONS ON SITE PRIOR TO FINAL BIDS. EXCEPTIONS DURING BIDS SHALL BE SUBMITTED IN WRITING.
- G. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE HELD RESPONSIBLE TO HAVE EXAMINED THE CONSTRUCTION SITE WITH RESPECT TO CONSTRUCTION DRAWINGS, ACTUAL FIELD CONDITIONS, DOOR FRAME HEIGHTS, PIPING OBSTRUCTIONS, DUCTWORK HEIGHTS AND LEVELS, FLOOR LEVELS, CEILING HEIGHTS, ETC. PRIOR TO FINAL BIDS.
- H. ALL NEW BUILDING STANDARD EQUIPMENT, DEVICES, AND MATERIALS SHALL BE EQUAL TO OR GREATER IN QUALITY TO EXISTING APPROVED BUILDING STANDARD MATERIALS PRESENTLY INSTALLED IN BUILDING. EQUIPMENT, DEVICES, AND MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, PROJECT MANAGER, AND THE ENGINEER.
- I. ALL EMERGENCY AND EXIT SIGN JUNCTION BOXES SHALL BE PAINTED RED. PANEL TAG AND CIRCUIT NUMBER FOR ALL WIRING WITHIN JUNCTION BOX SHALL BE INDICATED ON COVER.
- J. ALL JUNCTION BOXES SERVING LIGHTING AND POWER SHALL HAVE CIRCUIT NUMBERS AND PANEL TAGS FOR ALL WIRING WITHIN JUNCTION BOX INDICATED ON COVERS.
- 38. A NEW PANELBOARD COPPER GROUND BUS SHALL BE INSTALLED FOR EQUIPMENT GROUNDING REQUIREMENTS FOR ALL PANELBOARDS LACKING A GROUND BUS.

A. GENERAL PURPOSE BRANCH CIRCUIT HOMERUNS CONSISTING OF TWO NETWORKS SHALL HAVE

- EMERGENCY LIGHTING NOTES

- 39. PERFORM ALL WORK OF A DEMOLITION NATURE THAT MAY BE REQUIRED OR NECESSARY FOR THE FULL AND COMPLETE EXECUTION OF THE WORK, WHETHER EXPLICITLY SHOWN AND/OR SPECIFIED OR NOT. EXACT EXTENT OF DEMOLITION WILL NOT BE FULLY INDICATED BY DRAWINGS. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE CONTRACT DOCUMENTS WITH ARCHITECTURAL AND DEMOLITION DRAWINGS TO EXISTING CONDITIONS. ELECTRICAL EQUIPMENT WHICH WILL NOT BE REUSED SHALL BE TURNED OVER TO THE OWNER OR REMOVED FROM THE PREMISES AS DETERMINED BY THE PROJECT MANAGER.
- 40. ANY EXISTING ELECTRICAL MATERIAL AND EQUIPMENT WHICH INTERFERES WITH THE NEW ADDITION OR THE REMOVAL OF EXISTING WALLS SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR. VERIFY REMOVAL AND NEW LOCATION OF EQUIPMENT WITH THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER PRIOR TO WORK.
- 41. VERIFY CLEARANCES FOR ALL NEW OR EXISTING RELOCATED ELECTRICAL WORK BEFORE PROCEEDING WITH CONSTRUCTION. COORDINATE USAGE OF AVAILABLE SPACE WITH ALL TRADES. IN THE EVENT OF CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 42. WHERE EXISTING CONDUIT IS SHOWN ON THE DRAWINGS, IT IS SHOWN DIAGRAMMATICALLY. THE EXACT ROUTING OF THE EXISTING CONDUIT SHALL BE DETERMINED ON THE JOB SITE BY THE CONTRACTOR.
- 43. NOT USED.
- 44. ALL HANGER AND/OR ROD SUPPORT SYSTEMS SHALL BE SUPPORTED TO THE BOTTOM RIB OF THE METAL DECK, WHERE APPLICABLE.
- 45. PROVIDE A WRITTEN GUARANTEE THAT THE ELECTRICAL INSTALLATION IS FREE FROM MECHANICAL AND ELECTRICAL DEFECTS. CONTRACTOR AT THEIR COST SHALL REPLACE AND/OR REPAIR, TO THE SATISFACTION OF THE OWNER AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, ANY PARTS OF THE INSTALLATION WHICH MAY FAIL WITHIN A PERIOD OF 12 MONTHS FROM CONSTRUCTION ACCEPTANCE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, PROVIDED THAT SUCH FAILURE IS DUE TO DEFECTS IN MATERIAL, WORKMANSHIP, OR FAILURE TO FOLLOW THE SPECIFICATIONS, MANUFACTURER'S INSTALLATION INSTRUCTIONS AND/OR DRAWINGS.
- 46. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROPERLY SIZED WALL OR MILLWORK MOUNTED BOXES, RINGS, SUPPORTS, AND DEVICES AS REQUIRED VIA COORDINATION WITH ARCHITECTURAL WALL SECTIONS, AND MILLWORK DETAILS.
- 47. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS. WHERE MORE STRINGENT REQUIREMENTS THAN THOSE DESCRIBED HEREIN OR AS SET FORTH UNDER CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION, THOSE GREATER REQUIREMENTS SHALL BE ADHERED TO.
- 48. ALL NEW EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE PROVIDED WITH AN INTEGRAL EMERGENCY BACKUP BALLAST TO ILLUMINATE THE FIXTURES IN THE EVENT OF A POWER FAILURE. ALL COMPONENTS SHALL BE IN COMPLIANCE WITH NFPA 101 AND NFPA 70 SECTION 700. BALLAST BATTERY SHALL MAINTAIN 87.5% OF THE NOMINAL BATTERY VOLTAGE AFTER 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL 924.
- 49. IDENTIFICATION OF ELECTRICAL ITEMS
- A. PROVIDE PERMANENT IDENTIFICATION MARKING AND NAMEPLATES FOR ALL CONDUCTORS AND EACH ITEM OF ELECTRICAL APPARATUS AND ASSOCIATED CONTROLLED EQUIPMENT, WITH THE SAME INSCRIPTIONS AS SHOWN ON THE DRAWINGS. ALL IDENTIFICATION MARKINGS SHALL BE CLEARLY AND NEATLY APPLIED.
- B. APPLY ENGRAVED PLASTIC LAMINATE NAMEPLATES WITH NON-CORRODING TYPE SCREW FASTENERS OR RIVETS TO ALL MOTOR STARTERS, DISCONNECT SWITCHES, RELAYS, REMOTE CONTROL PANELS, PUSH BUTTON STATIONS, PANELBOARDS, SWITCHBOARDS, TRANSFORMERS, AND OTHER ELECTRICAL APPARATUS. NAMEPLATES SHALL BE WHITE WITH BLACK CORE, 1 1/4" X 3" MINIMUM WITH 3/16" HIGH LETTERING. THE NAMEPLATE SHALL IDENTIFY: - NAME OF DEVICE OR - LOAD THE DEVICE IS SERVING
- C. PROVIDE A TYPEWRITTEN DIRECTORY OF CIRCUITS IN LIGHTING AND POWER PANELS AND PROVIDE PANEL IDENTIFICATION IN BLACK ALKYD PAINT STENCILED INSCRIPTIONS ON THE INSIDE OF THE DOOR, DIRECTLY ABOVE THE CENTERLINE OF THE DIRECTORY FRAME, OR ON THE VERTICAL AND HORIZONTAL CENTERLINE OF DOORS WITHOUT DIRECTORY FRAMES.
- D. PROVIDE ON DEVICE PLATES FOR LOCAL TOGGLE SWITCHES, TOGGLE SWITCH MANUAL STARTERS, PILOT LIGHTS AND OTHER ELECTRICAL ITEMS, WHOSE FUNCTION IS NOT READILY APPARENT, ENGRAVED SUITABLE INSCRIPTIONS OR PLASTIC LAMINATE NAMEPLATES DESCRIBING THE EQUIPMENT CONTROLLED OR INDICATED.
- E. EMBOSSED SELF-ADHERING PLASTIC TAPE LABELS WILL NOT BE ACCEPTED.
- 50. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL EXISTING OR NEW NON-ACCESSIBLE SYSTEM DEVICES, PULLBOXES, AND EQUIPMENT, ETC. FOR RELOCATION TO ACCESSIBLE CEILING AREAS. E.C. SHALL INCLUDE ALL COMPLETE COSTS FOR RELOCATION AND VERIFY SUCH CONDITIONS WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL BIDS.
- 51. EXISTING CONDITIONS OF ALL EXISTING BUILDING EQUIPMENT, DEVICES, FIXTURES, AND SYSTEMS THAT REQUIRE REWIRING, REUSE, RELOCATION, OR REFURBISHING AS PER DRAWINGS AND SPECIFICATIONS SHALL BE FIFLD VERIFIED BY THE F.C. PRIOR TO COMMENCEMENT OF ANY WORK O BE COMPLETELY OPERATIONAL. E.C. SHALL SUBMIT A WRITTEN STATEMENT AND ITEMIZED LISTING OF ALL EXISTING CONDITIONS OF THE FOLLOWING, ALTHOUGH NOT LIMITED
- A. HVAC EQUIPMENT
- B. EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES
- C. LIFE SAFETY/FIRE ALARM SYSTEM DEVICES D. LIGHTING AND RECEPTACLE DEVICES.
- THE WRITTEN STATEMENT SHALL BE SUBMITTED TO THE PROJECT MGR., ARCHITECT, AND ENGINEER PRIOR TO WORK. IN THE EVENT THAT THE CONTRACTOR COMMENCES WORK WITHOUT SUBMITTAL, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND COST TO MAINTAIN THE ABOVE IN GOOD WORKING ORDER AND CONDITION. AND COMMUNICATIONS OUTLETS. ELECTRICAL ENGINEERING
- DRAWINGS SHALL BE USED FOR CIRCUITING INFORMATION ONLY. 52. E.C. SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL ELECTRICAL LIGHTING FIXTURES.
- 53. E.C. SHALL REFER TO MECHANICAL AND PLUMBING ENGINEERING DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT.

EL1. CONNECT ALL EXIT SIGNS, EMERGENCY LIGHTS AND NIGHT LIGHTS TO EXISTING EMERGENCY LIGHTING CIRCUIT. VERIFY ALL REQUIREMENTS AND FINAL EMERGENCY LIGHTING LOCATIONS WITH LOCAL AUTHORITIES. VERIFY BREAKER IS LOCK ON. INCLUDE ALL COSTS IN BASE BID. EL2. IF NOT INSTALLED BY MANUFACTURER, EC SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE EMERGENCY INVERTER BALLAST IN NIGHT LIGHTING FIXTURES SHOWN ON THIS SHEET.

INVERTER SHALL BE CAPABLE OF ILLUMINATING FIXTURE FOR 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL924. E.C. SHALL NOT INSTALL MORE THEN EIGHT FIXTURES TO EACH INVERTER. PROVIDE ADDITIONAL INVERTERS AS NECESSARY.

W2. CONDUIT RUNS MAY BE COMBINED EXCEPT WHERE ISOLATED GROUNDS ARE USED. IG CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS. ALL HOME EL4. EMERGENCY BATTERY LIGHTING WALL PACKS IN PLAY PLACE 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 AVERAGE IN PATH OF EGRESS. IF FIELD CONDITIONS REQUIRE ANY CHANGES TO LIGHTING DESIGN, EMERGENCY LIGHTING, SHALL BE INSTALLED TO MEET THE ABOVE REQUIREMENTS. INSTALLATION METHODS:

M1. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.

M2. ALL DIMENSIONS SHOWN ARE TAKEN FROM FACE OF WALL FINISH. THE EC SHALL MAKE NECESSARY DIMENSIONAL ALLOWANCES. ALL DIMENSIONS SHOWN ARE TO CENTER LINE OF OUTLET BOX AND/OR RECEPTACLE UNLESS NOTED OTHERWISE.

M3. ALL J-BOXES, DCO'S, AND OTHER ELECTRICAL DEVICES SHOWN SHALL BE RECESSED MOUNTED INTO A WALL, FLOOR OR CEILING UNLESS SPECIFICALLY NOTED OTHERWISE.

M4 ALL RECEPTACLES (EXCEPT SPECIFIED HUBBELL PIN & SLEEVE TYPES) SHALL BE FURNISHED BY THE EC. THE RECEPTACLES INCLUDING PIN AND SLEEVE TYPE SHALL BE INSTALLED BY THE EC.

DEMOLITION AND REMODEL:

D1. DEMOLISHED BRANCH CIRCUITS MAY BE REUSED IN NEW CONSTRUCTION. IF BRANCH CIRCUITS ARE NOT REUSED IN NEW CONSTRUCTION, REMOVE CONDUIT BACK TO DEMOLITION LIMITS AND REMOVE CONDUCTORS BACK TO SOURCE. PROVIDE J-BOX AT CONDUIT END AND LABEL "SPARE". D2. RECONNECT EQUIPMENT THAT IS RELOCATED OR EXISTING TO REMAIN.

D3. THE CONTRACTOR SHALL THOROUGHLY REVIEW DEMOLITION AND CONSTRUCTION DRAWINGS AND BE FULLY AWARE OF DESIGN INTENT. ADDITIONAL WORK REQUIRED DUE TO DEVIATIONS FOUND OF EXISTING DEVICE LOCATIONS OR AFTER CEILINGS, WALLS AND FLOORS ARE OPENED UP SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

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SYMBOLS	S AND	ABBREVIATIONS						nc. outh 337 042 043
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₩ T	-	FORMER	CEE WAY SWI	TCH, K=KEYED SWITCHED	B B	BUZZER BUTTON FOR BUZZER		Architect ortland Ave and Corpor Burnsville, Fax: (952)
		TH DUPLEX CONVENIENCI	E OUTLET (C	EILING MOUNTED)		PULLBOX		Arc Portland Burr Doffice
$\overline{\Theta}$	JB WIT	H SINGLE CONVENIENCE	OUTLET	,		PANELBOARD		12400 00, Pc
\ominus	JB WIT	H DUPLEX CONVENIENC	E OUTLET		<u> </u>	CIRCUIT BREAKER		Archit Archit Suite 100, Portland Burnsv Office: ((Fax: ()
H	JB WIT	H TWO DUPLEX CONVEN	IIENCE OUTLI	ETS	90	J-BOX WITH FINAL EQUIPMENT CONNECTION		Su
\bigcirc		H FLUSH FLOOR MOUNT			A	AMPERES		
\bigcirc		H SPECIAL PURPOSE OU			ACM AFF	AREA CONSTRUCTION MANAGER ABOVE FINISHED FLOOR		
۲		= IG4710,		(1) =IG4700, (1) =IG5262	С	CONDUIT		
		COM STATION W/ 3/4"C-		STATION	ССТ	CIRCUIT		
\triangleleft	TELEPH	HONE JACK			EC	ELECTRICAL CONTRACTOR		Z
	JUNCTI	ON BOX - WALL OR CE	EILING MOUN	TED	GC	GENERAL CONTRACTOR		DESIGN
		USED DISCONNECT SWIT	СН		GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTOR		H
(T)		UP THRU ROOF OSTAT SENSOR W/ 1/2	"С_ ЦР ТО		GRD	GROUND ISOLATED GROUND		
() (M)		CONNECTION	UF IU	ULILINU JI AUE	IG JB	JUNCTION BOX	s as	
		IT RUN CONCEALED IN	CEILING OR	WALLS	KES	KITCHEN EQUIPMENT SUPPLIER	podas	
		IIT RUN IN FLOOR SLAB			MLO	MAIN LUGS ONLY		E O
	HOT (S	SHORT), NEUTRAL (LONG) & 'X' DEN	IOTES ISOLATED GROUND	0/0	OWNER OPERATOR	6 0	Inc.
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TABLE W6	`	1		Γ	I		Jue	— 33 в Рс
LOCATION		208V.		480V.		LOW ENERGY	lar ons	uelsc lush L MN 5 30-00!
EXPOSED INDOORS		< 1" EMT COMPRESS	FTGS	IMC THREADED FTGS	FMT C	COMPR. FTGS	ema	Emanuelson- 7705 Bush Lak Edina, MN 554 (952) 930-0050
		>1.25" IMC THREADED						
						/2"- 2" SET SCREW FTGS		
WALLS		<pre><2" EMT SET SCREW IMC THREADED FTGS</pre>	FTGS >2.5"	<pre><2" EMT SET SCREW. FTGS >2 IMC THREADED FTGS</pre>		4" COMPR. FTGS		
AIR HANDLING		<2" EMT COMPR. FTG		2" EMT COMPR. FTGS < >2.5"	'IMC EMT C	COMPR. FTGS	3802	2.0355
CEILING/ SPAC		>2.5" IMC THREADED. <2" EMT SET SCREW		THREADED. FTGS <2" EMT COMPR. FTGS >2.5"	IMC EMT 1	/2" – 2" SET SCREW		F MISSON
CEILING/ SPAC		IMC THREADED. FTGS	1103 /2.5	THREADED. FTGS		2.5" – 4" COMPR. FTGS	MAN MA	TTHEW
BELOW GRADE		IMC THREADED FTGS		IMC THREADED FTGS		HREADED FTGS SCHEDULE		ULTS
INTERIOR		SCHEDULE 40 OR 80		IMC INREADED FIGS		8 80 PVC	NI POL	UMBER 004005366
				T, WIRE S	SI7E			VAL ENGINE
				1			03/1	7/23
		GROUN		NG FOR HY	/AC	UNITS		<u>.</u>
HACR BRKR S	SIZE C	ONDUIT & WIRE SIZE					. س ⊢	4
40A		1"C-3#8	-					
45A		1"C-3#8	-			- TERMINATE ON SUPPLIED		0 4
50A		1"C-3#6	-			GROUNDING LUG INSIDE EQUIPMENT		0
60A			-					
70A		1"C-3#6				- GROUND BUSHING		AND CITY,
80A		1-1/4°C-3#4			K) # 1b)			
90A						- GROUNDING STRAP		<u>م</u> ا ۷
100A		1-1/4"C-3#3 1-1/4"C-3#2				- CONDUIT		
125A		, "					REM - 005	CHEDULE
125A 150A		1-1/2"C-3#1	-			- BOTTOM PANEL OF HVAC UNIT (TYPICAL)	ST 24-	ED,
175A		1-1/2"C-3#1/0	-					
200A		2"C-3#2/0	-	$H/\Delta C GP$		ING DETAIL		SO I
200A 225A		2"C-3#3/0		ND SHALL BE SIZED FOR EQU				
225A 250A		2"C-3#4/0	<u><</u> 15A ∣	<u><</u> 20A <u><</u> 60A <u><</u> 100A	<u><</u> 200A	<u><</u> 300A	SAO Site	ES AIL
		2-1/2"C-3#250		12 CU 10 CU 8 CU		4 CU		
MANUFACTU	RER'S V	WRITTEN DATA FOR EA	CH MECHAI	NICAL DEVICE PRIOR TO SUBM	IITTAL OF AN	EDERS AND CIRCUIT BREAKERS WITH THE Y ELECTRICAL EQUIPMENT FOR REVIEW, NO	Mc 2023 State	
ADDITIONAL MECHANICAL			UWED FOR	ANY CHANGES TO ELECTRICA	L FEEDERS O	OR CIRCUIT BREAKERS REQUIRED FOR ANY		`
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				FOR FASCIA SIGN. FINAL CONNE			© 20 0 20 0 1 1	ritten for L ate a 1 late ample censec tract thoriz
JUNCTION BO	OX AND	THE OPENING IN THE T	RELLIS SHAL	L BE ALIGNED FOR THE LIGHT FI	XTURE TO BE	LIGHT FIXTURE WIRES). THE LOCATION OF THE INSTALLED PROPERLY. COORDINATE INSTALLATION	ions are US, US,	but wi bared sue di at a or exi rly lic cont ot aut
OF JUNCTION	N BOX A IS FOR F	ND ANY NECESSARY OP REQUIREMENTS REGARDIN	ENINGS IN T IG MOUNTING	RELLIS WITH GC AND TRELLIS/CA BRACKETS FOR USE IN C-CHAN	NOPY MANUFAC	CTURER. SEE LIGHT FIXTURE INSTALLATION S.	nal conate	withd prep ts iss te or ince (prope is no
						OTHER TRADES. IF A DISCREPANCY IS FOUND,		Juced were with i ant si ant si refere s of h tion c tion c
		DIATELY NOTIFY THE GO AREA WITH FINAL SEATIO			IXTURE(S). EC	SHALL COORDINATE LOCATIONS OF ALL LIGHT	POR: DCI operty	reproc ments xtion for yrvices roduct
						NTER TO AVOID GLARE ON THE CASH REGISTER	wings	or I ocur ocur jjunc nings Ne Sé Repr anoth

SYMBOLS	S AND ABBREVIATIONS					nc. 1042 043
SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION		Architecture, In 12400 Portland Avenue Sou Suite 100, Portland Corporate Cent Burnsville, MN 553 Office: (952) 252-40 Fax: (952) 252-40
<u>Ю</u>	SINGLE POLE SWITCH, 3W=THREE WAY S	SWITCH K=KEYED SWITCHED		BUZZER		d Aver d Aver orpora ville, N (952)
T	TRANSFORMER		(B)	BUTTON FOR BUZZER		Architect Portland Ave Burnsville, Office: (952) Fax: (952)
	JB WITH DUPLEX CONVENIENCE OUTLET	(CEILING MOUNTED)		PULLBOX		
$\overline{\ominus}$	JB WITH SINGLE CONVENIENCE OUTLET			PANELBOARD		1240 00, P
\ominus	JB WITH DUPLEX CONVENIENCE OUTLET		<u> </u>	CIRCUIT BREAKER		lite 10
	JB WITH TWO DUPLEX CONVENIENCE OU	TLETS	- 20	J-BOX WITH FINAL EQUIPMENT CONNECTION		SL
\bigcirc	JB WITH FLUSH FLOOR MOUNTED OUTLE	T	A	AMPERES		
\bigcirc	JB WITH SPECIAL PURPOSE OUTLET		ACM AFF	AREA CONSTRUCTION MANAGER ABOVE FINISHED FLOOR		
	$[\bigcirc] = IG4710, \qquad [\bigcirc] = IG5251,$	 () =IG4700, () =IG5262 	C	CONDUIT		
	INTERCOM STATION W/ 3/4"C- TO MAIN		ССТ	CIRCUIT		
	TELEPHONE JACK		EC	ELECTRICAL CONTRACTOR		z
J	JUNCTION BOX - WALL OR CEILING MO	UNTED	GC	GENERAL CONTRACTOR		DESIGN
	NON-FUSED DISCONNECT SWITCH		GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTOR		H
S	STUB UP THRU ROOF		GRD	GROUND	-	
	THERMOSTAT SENSOR W/ 1/2"C- UP 1	O CEILING SPACE	IG	ISOLATED GROUND	Se a	
	MOTOR CONNECTION CONDUIT RUN CONCEALED IN CEILING C		JB KES	JUNCTION BOX KITCHEN EQUIPMENT SUPPLIER	podas	
	CONDUIT RUN IN FLOOR SLAB	N WALLS	MLO	MAIN LUGS ONLY		E
	HOT (SHORT), NEUTRAL (LONG) & 'X' [DENOTES ISOLATED GROUND	0/0	OWNER OPERATOR	on-po engine	s, Inc. I v.epinc.com
1			WP	WEATHERPROOF	ັ ນ 🛛	as, Inc. ad ww.epin
TABLE W6	5		1		nue	e Rodi 39 – Wu – Wu
LOCATION	208V.	480V.		LOW ENERGY		Emanuelson- 7705 Bush Lak Edina, MN 554 (952) 930-0050
EXPOSED					eman	lanué)5 Bus na, M 2) 930
INDOORS	< 1" EMT COMPRESS. FTGS >1.25" IMC THREADED FTGS	IMC THREADED FTGS	EMT	COMPR. FTGS	θ	Err 77C Edi (95
CONCEALED						
WALLS	<2" EMT SET SCREW FTGS >2			/2"– 2" SET SCREW FTGS – 4" COMPR. FTGS		
	IMC THREADED FTGS	IMC THREADED FTGS				
AIR HANDLING CEILING/ SPA		2" EMT COMPR. FTGS < >2.5 THREADED. FTGS	"IMC EMI	COMPR. FTGS	380	02.0355
NON AIR HAN CEILING/ SPA		5" <2" EMT COMPR. FTGS >2.5" THREADED. FTGS		/2" – 2" SET SCREW 2.5"– 4" COMPR. FTGS	NUM TALE	OF MISSOUTH
BELOW GRADE			FIGS	2.J - 4 UUMER. FIUS		ATTHEW
INTERIOR	IMC THREADED FTGS OR	IMC THREADED FTGS		HREADED FTGS SCHEDULE		TEST
	SCHEDULE 40 OR 80 PVC		40 0	R 80 PVC	PE-	NUMSER -2004005366
	CONDUI	T, WIRE S	SIZE	AND		ONAL ENGINITUTI
		,			03/	17/23
	GKUUNDI	NG FOR H	VAC	\cup $ $ $ $ $)$ $ $ $)$		I
HACR BRKR	SIZE CONDUIT & WIRE SIZE					4
40A	1"C-3#8	Ш				411
45A	1"C-3#6				ц 🔁 п	\mathbf{O}
50A	1"C-3#6		_	EQUIPMENT		9
60A	1"C-3#6			GROUND BUSHING		, мо Д
70A	1-1/4"C-3#4					
80A	1-1/4"C-3#3					
90A	1-1/4"C-3#3			GROUNDING STRAP		S S S
100A	1-1/4°C-3#2		_	CONDUIT		
125A	1-1/2"C-3#1			/ BOTTOM PANEL OF HVAC		DUL
120A			¥	UNIT (TYPICAL)	AST 024	EC RD.
175A	1-1/2"C-3#1/0					ᇦ ┃ 풍
200A	2"C-3#2/0			ING DETAIL	BACK Code:	SCI
	2"C-3#3/0	UND SHALL BE SIZED FOR EQU				
225A	<u>2 8 8 %</u> , , , , 8 ≤15A	<u>≤</u> 20A <u>≤</u> 60A <u>≤</u> 100A	<u><</u> 200A	<u><</u> 300A	Site Site	ES,
250A	2-1/2"C-3#250 14 CU	12 CU 10 CU 8 CU	6 CU	4 CU		
MANUFACTU	JRER'S WRITTEN DATA FOR EACH MECH	HANICAL DEVICE PRIOR TO SUB	MITTAL OF AN	EDERS AND CIRCUIT BREAKERS WITH THE IY ELECTRICAL EQUIPMENT FOR REVIEW, NO	MC 2023 State	
ADDITIONAL MECHANICAI		OR ANY CHANGES TO ELECTRICA	L FEEDERS	OR CIRCUIT BREAKERS REQUIRED FOR ANY		
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. PROVIDE A	WEATHERPROOF JUNCTION BOX IN PARAPE	T FOR FASCIA SIGN. FINAL CONNE	CTION BY OTH	ERS.	© 2023	JSA, I litten or us later mple snsed act d norize
2. COORDINATE	THE LOCATION OF JUNCTION BOX (IN TH	E WALL) WITH THE OPENING IN TRE ALL BE ALIGNED FOR THE LIGHT F	ELLIS (FOR TH IXTURE TO BF	E LIGHT FIXTURE WIRES). THE LOCATION OF THE INSTALLED PROPERLY. COORDINATE INSTALLATION		Id's L Lt wri Ired f Le da at a at a y lice contr t auth
OF JUNCTIO		TRELLIS WITH GC AND TRELLIS/CA	ANOPY MANUFA	CTURER. SEE LIGHT FIXTURE INSTALLATION	fication	Donal withou prepa s issu e or ce or the the s not
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THE EC SHA		THE THE INSTALLATION OF SUCH		C SHALL COORDINATE LOCATIONS OF ALL LIGHT	MCD gs and st	erty < produ ants / on w fiferer for ré ices ductic ductic
				NTER TO AVOID GLARE ON THE CASH REGISTER		prope or re juncti a di ngs f serv Repro Aepro
				FFET WITHOUT DISCONNECTING CARLES WHIP		ar freiding

SYMBOL	.5 AND	ABBREVIATIONS					e Sout Cente 1 5533 2-404. 2-404.
SYMBOL	DESCR	IPTION		SYMBOL	DESCRIPTION		venuk orate 3, MN 2) 25, 2) 25,
<u>له</u>	SINGLE	POLE SWITCH, 3W=THREE WA	Y SWITCH, K=KEYED SWITCHED	B	BUZZER		12400 Portland Aver Suite 100, Portland Corpora Burnsville, I Office: (952) Fax: (952)
T		FORMER		B	BUTTON FOR BUZZER		Portlan Portland C Burns Office: Fax:
		H DUPLEX CONVENIENCE OUTL	· · ·	0 0	PULLBOX PANELBOARD		400 F
		H DUPLEX CONVENIENCE OUTLE			CIRCUIT BREAKER		12 e 100
		H TWO DUPLEX CONVENIENCE		<u> </u>	J-BOX WITH FINAL EQUIPMENT CONNECTION		Suite
· · · ·	JB WIT	H FLUSH FLOOR MOUNTED OU	TLET	A	AMPERES		
\bigcirc	JB WIT	H SPECIAL PURPOSE OUTLET		ACM	AREA CONSTRUCTION MANAGER		
		H ISOLATED GROUND OUTLET	$ \boxed{\textcircled{O}} = \text{IG4700,} \qquad \boxed{\textcircled{O}} = \text{IG5262} $	AFF	ABOVE FINISHED FLOOR		
		= IG4710, 🕒 =IG5251, OM STATION W/ 3/4"C- TO N		0 100			l
		IONE JACK		CCT EC	CIRCUIT ELECTRICAL CONTRACTOR		7
		ON BOX - WALL OR CEILING	MOUNTED	GC	GENERAL CONTRACTOR		DESIGN
	NON-F	USED DISCONNECT SWITCH		GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTOR		DES
S		UP THRU ROOF		GRD	GROUND		
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		SHORT), NEUTRAL (LONG) & 'X	' DENOTES ISOLATED GROUND	0/0	OWNER OPERATOR		y, Inc. H w.epinc.com
		· · · · · · · · · · · · · · · · · · ·		WP	WEATHERPROOF		ad, inc. ad ww.epin
TABLE W	6					consultin	Emanuerson-rouas 7705 Bush Lake Road Edina, MN 55439 (952) 930-0050 www
LOCATION		208V.	480V.		LOW ENERGY	Tan const	UN 55 0-005
EXPOSED		, , , , , , , , , , , , , , , , , , ,					7705 Bush Lake 7705 Bush Lake Edina, MN 554 (952) 930-0050
INDOORS		<pre>< 1" EMT COMPRESS. FTGS >1.25" IMC THREADED FTGS</pre>	IMC THREADED FTGS	EMT C	OMPR. FTGS		1711 (3)
CONCEALED		1				0	
WALLS		<pre><2" EMT SET SCREW FTGS : IMC THREADED FTGS</pre>	>2.5" <2" EMT SET SCREW. FTGS >2 IMC THREADED FTGS		/2"- 2" SET SCREW FTGS 4" COMPR. FTGS	U U	
AIR HANDLIN		<2" EMT COMPR. FTGS	2" EMT COMPR. FTGS < >2.5'	IMC EMT C	OMPR. FTGS		55
CEILING/ SP		>2.5" IMC THREADED. FTGS	THREADED. FTGS			- UNITE OF M/S	
NON AIR HAN CEILING/ SP		<2" EMT SET SCREW FTGS I IMC THREADED. FTGS	>2.5" <2" EMT COMPR. FTGS >2.5" THREADED. FTGS	FTGS 2	/2" – 2" SET SCREW 2.5"– 4" COMPR. FTGS	MATTHEV	
BELOW GRADE	E					FULTS	
INTERIOR		IMC THREADED FTGS OR SCHEDULE 40 OR 80 PVC	IMC THREADED FTGS		IREADED FTGS SCHEDULE 80 PVC	NUMSER	366
			IT, WIRE 9		$\Delta \mathbb{N}$	MANNE SONAL E	
			,			03/17/23	5 5
		GROUND	ING FOR H	VAC	UNITS		
HACR BRKR		ONDUIT & WIRE SIZE					
HACR BRKR 40A	SIZE C					916 1114	
40A 45A		1"C-3#8			- TERMINATE ON SUPPLIED	AURAN Number: 191 Y, M0 6411.	
50A		1"C-3#6			GROUNDING LUG INSIDE EQUIPMENT	ГАUR Number: Ү, мо	
60A		1"C-3#6				AU Mo ^d mu	
		1"C-3#6			- GROUND BUSHING		AND
70A 80A		1 - 1/4°C - 3#4			- EQUIPMENT GROUNDING CONDUCTOR		Ā
90A		1-1/4"C-3#3			- GROUNDING STRAP		S
100A		1 - 1/4°C - 3#3			— GROUNDING STRAP — CONDUIT		SCHEDULES
		1-1/4°C-3#2				KAI KAI	D
125A 150A		1 - 1/2"C - 3#1			— BOTTOM PANEL OF HVAC UNIT (TYPICAL)	D'0 AST 024- RD,	
150A 175A		1-1/2"C-3#1/0					. 프
		2"C-3#2/0			ING DETAIL	BACKC, Code: LINE	N N
200A		2"C-3#3/0	ROUND SHALL BE SIZED FOR EQU				, N
225A		<u>∠ 0 0,,,,,0</u> <u>≤</u> 15A	<u>≤</u> 20A <u>≤</u> 60A <u>≤</u> 100A	<u><</u> 200A	<u>≤</u> 300A	STA STA	ES AIL
250A		2-1/2"C-3#250 14 C			4 CU		
MANUFACTU	URER'S V	VRITTEN DATA FOR EACH ME	ECHANICAL DEVICE PRIOR TO SUBM	MITTAL OF AN	EDERS AND CIRCUIT BREAKERS WITH THE Y ELECTRICAL EQUIPMENT FOR REVIEW, NO	MC 2023 State 7887	NOT DET,
ADDITIONAL MECHANICA			FOR ANY CHANGES TO ELECTRICA	L FEEDERS O	R CIRCUIT BREAKERS REQUIRED FOR ANY		
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LIGHTING:						A, A, and a solution of this solution.	ire iuc anoth shitect ments
	\\/					2023 McDon USA ULC and the confi	er tim e on d arc docu zed.
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JUNCTION E	BOX AND	THE OPENING IN THE TRELLIS	SHALL BE ALIGNED FOR THE LIGHT FI	IXTURE TO BE	LIGHT FIXTURE WIRES). THE LOCATION OF THE INSTALLED PROPERLY. COORDINATE INSTALLATION		sue . or at . erly lin e con iot au
			IN TRELLIS WITH GC AND TRELLIS/CA NTING BRACKETS FOR USE IN C-CHAI		CTURER. SEE LIGHT FIXTURE INSTALLATION S.	Action of the second se	its is site o ence of th t is n
					THER TRADES. IF A DISCREPANCY IS FOUND,	DO D	www rent s refer ss of stion roject
		DIATELY NOTIFY THE GC BEFC AREA WITH FINAL SEATING AN		IINIUKE(S). EC	SHALL COORDINATE LOCATIONS OF ALL LIGHT	FOR: MCI gs and reprod reprod	differ differ s for ervice her p
					ITER TO AVOID GLARE ON THE CASH REGISTER	A program a wing:	onjuin on a the s . Rep anot

BALLAST

- TO THE TOY OR ANY PART OF THE TOY STRUCTURE.

L4 IF PC-POS CASH REGISTER SYSTEM IS INSTALLED, EC SHALL RELOCATE FIXTURES ABOVE FRONT COUNTER TO AVOID GLARE ON THE CASH REGISTER SCREENS. EC SHALL INSTALL CABLE WHIP TO FIXTURES SO THAT FIXTURE MAY BE RELOCATED FOUR FEET WITHOUT DISCONNECTING CABLE WHIP.

L5 EC SHALL COORDINATE LOCATION OF ALL EXTERIOR LIGHTS TO AVOID INTERFERENCE WITH ANY CORBELS, TRUSSES, BEAMS OR OTHER SPECIAL EXTERIOR TREATMENTS. INSTALL LIGHT FIXTURES WITH CORRECT ORIENTATION PER MANUFACTURER'S INSTRUCTIONS

L6 THE USE OF INTERLOCK TYPE "MC" CABLE IN LENGTHS OF 6 FEET OR LESS (WHERE PERMITTED BY LOCAL CODES) SHALL BE ALLOWED FOR WIRING

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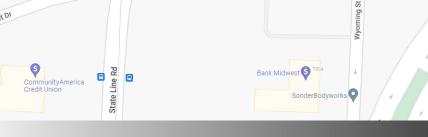
PERMIT

TO INTERIOR LIGHTING FIXTURES. "ROMEX" OR "BX" SHALL NOT BE USED. L7 EC SHALL VERIFY THAT NOT MORE THAN 3% VOLTAGE DROP EXISTS FROM THE LIGHTING PANEL TO ANY EXTERIOR LIGHTING FIXTURE OR SIGNAGE

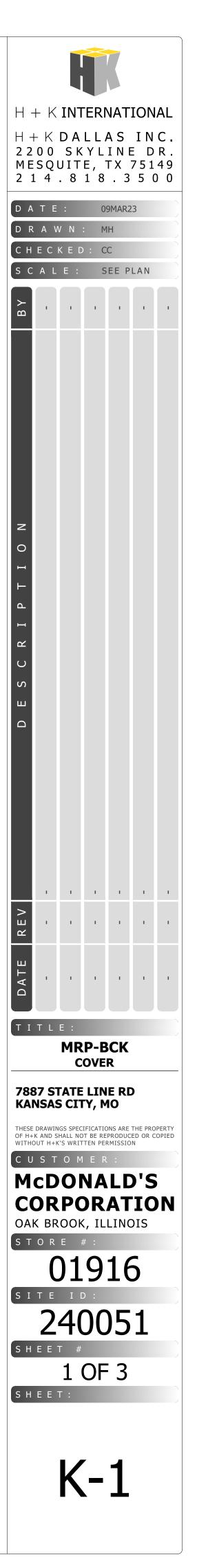
L8 WHERE MCDONALD'S RESTAURANT HAS A PLAYPLACE, THE EC SHALL COORDINATE EXACT LOCATION OF PLAYPLACE LIGHTING WITH PLAYPLACE TOY VENDOR FOR MAXIMUM ILLUMINATION AND SAFETY PER THE FINAL LOCATION OF THE PLAYPLACE TOY. LIGHTING FIXTURES SHALL NOT BE MOUNTED

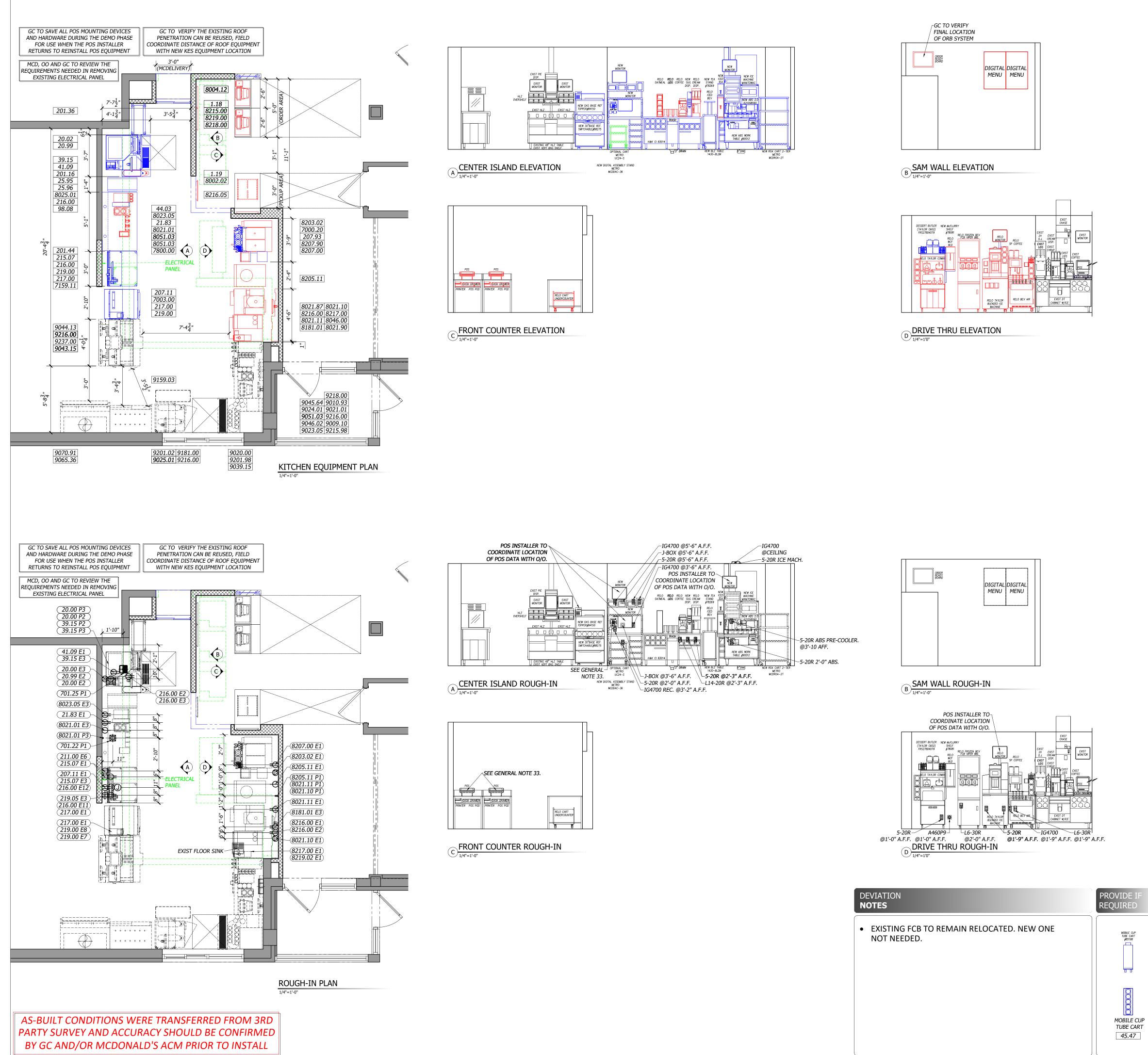
L9 EC SHALL VERIFY ALL TAP SETTINGS FOR H.I.D. LIGHTING FIXTURES AND MAKE ANY NECESSARY CORRECTIONS PRIOR TO INSTALLATION.

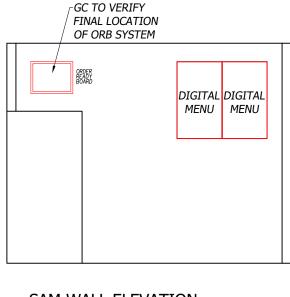




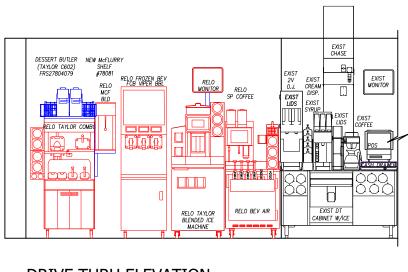


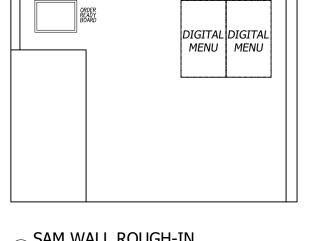




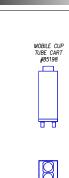












GENERAL NOTES											
1) USE EXISTING ROOF OPENINGS UNLESS OT OPENING IS REQUIRED, GC TO VERIFY PRO FROM HVAC AIR INTAKE. GC TO CUT NEW INSTALLER TO INSTALL NEW DUCT. GC TO CODES. EC TO WIRE EXHAUST FAN TO ANS	H + K INTERNATIONAL										
2) KITCHEN INSTALLER TO MOUNT RACEWAY TO TERMINAL BLOCK INSIDE CHASE. IF GA HOOD. PC TO INSTALL QUICK DISCONNEC FROM CHASE AND TO INDIVIDUAL APPLIAN	2 2 0 M E 9	00 SQU	SΚΥ ITE,	L A S L I N I T X	E D 751	R. 49					
 ALL UTILITIES FOR APPLIANCES BELOW HOU MAKE FINAL CONNECTIONS TO TERMINAL AT GAS MANIFOLD. 		4. те		8.3) ()					
4) IF CHASE IS RELOCATED, GC TO COORDINA PROVIDE NEW UTILITIES AS NEEDED.		A W		MH	.5						
5) GC TO VERIFY ALL EXISTING UTILITIES AND SEAL, CAP AND/OR RELOCATE EXISTING LI DRAINS IF POSSIBLE, OR RELOCATE/INSTA THE GC SHALL COORDINATE ALL FINAL CO		E C K	E D : E :	CC SEE P	LAN						
6) GC TO REMOVE, CLOSE, SEAL, CAP, RELOCA UTILITIES, ROOF OPENINGS AS NEEDED FO AND/OR FINISH WALL, FLOOR, CEILING AN	DR NEW AND RELOCATED EQUI ID/OR ROOF AS NECESSARY TO	PMENT. GC TO PATCH, SEAL MATCH EXISTING.	ВY	T		'	1	1			
 7) GC AND INSTALLER TO VERIFY LOCATION O RELOCATED EQUIPMENT. 8) REMOVE AND REPLACE DAMAGED QUARRY 1 											
EXISTING QUARRY TILE WHERE PATCHING FLOOR AREAS.											
9) IN THE EVENT REMOVAL OR RELOCATION O TILE THAT IS NOT ABRASIVE, GC SHALL RI ABRASIVE QUARRY TILE. SUCH REPLACEMI GRILLS, FRYERS, BAGGING STATIONS, SIN ACCUMULATE ON THE FLOOR CAUSING A S ONE TILE COURSE UNDER THE EDGE OF TH THE FIXTURE OR EQUIPMENT.	EPLACE ALL EXISTING SMOOTH ENT TILE SHALL BE LOCATED, A KS OR ANY LOCATION WHERE (SLIP AND FALL HAZARD. THE TI HE FIXTURE OR EQUIPMENT AN	KITCHEN QUARRY TILE WITH IT A MINIMUM, IN FRONT OF ALL GREASE OR WATER CAN LE SHALL EXTEND A MINIMUM OF D EXTEND THE ENTIRE LENGTH OF									
10) INSTALLER TO INSTALL NEW AND RELOCATION11) ALL INTERIOR FINISHES SHALL BE COORDINATE											
12) GC TO OBTAIN ALL PERMITS REQUIRED PE	R LOCAL CODE.		z								
13) ALL WORK SHALL COMPLY WITH ALL APPLI CODES. G.C., E.C., P.C. TO VERIFY THAT A FUNCTIONAL AND IN CONFORMANCE WITH COORDINATE ANY CORRECTIONS OF ANY SUBCONTRACTORS, AND/OR OWNER/OPER	ΤΙΟ										
14) ALL ELECTRICAL MATERIAL USED ON THIS15) ALL DIMENSIONS SHOWN ARE TAKEN FROM			Ъ П								
 16) ALL J-BOXES, DCO'S, AND OTHER ELECTRIC 	~										
WALL, FLOOR OR CEILING UNLESS SPECIF	C S										
RECEPTACLES INCLUDING PIN AND SLEEVE 18) EC SHALL PROVIDE AND INSTALL STAINLES ADDITIONALLY, EC SHALL PROVIDE AND IN ONLY" ON ALL ISOLATED GROUND/DEDICA	ш О										
 19) POWER AND CONTROL CORDS ARE FURNIS SETS TO APPLIANCES AS REQUIRED. 											
20) MOST KITCHEN REMODELS WILL REQUIRE RESPONIBILITY OF THE GC.	Some level of ceiling Repair	IR. THIS WILL BE THE									
21) ALL HOLES IN FRONT COUNTER FOR POS C BY GC.											
22) EC SHALL PROVIDE A DUPLEX RECEPTACLE INSTALLATION OF PLASMA TELEVISIONS. (FOR BROADBAND CONNECTION, EC SHALL	2) EC SHALL PROVIDE A DUPLEX RECEPTACLE AND LOW VOLTAGE BROADBAND CONNECTION FOR THE INSTALLATION OF PLASMA TELEVISIONS. COORDINATE EXACT LOCATIONS WITH PM & DECOR COMPANY. FOR BROADBAND CONNECTION, EC SHALL PROVIDE A 4 X 4 BOX WITH A ³ / ₄ " CONDUIT STUB-UP WITH A BUSHING INTO ACCESSIBLE CEILING SPACE.										
23) WHERE PIPING IS LOCATED WITHIN WALL24) DIMENSIONS SHOWING THE LOCATION OF			>	1	1 1	1	1	1			
25) GAS PIPING SHALL NOT PENETRATE ANY F			ъ Ч	1		1	1	1			
26) GC TO RE-BALANCE THE HVAC SYSTEM AFT			ш								
INSTALLATION INSTRUCTIONS.	27) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.										
28) UPON COMPLETION OF INSTALLATION, TH MATERIAL AND SHALL BE PRESSURE TESTE IMMEDIATELY REPORTED TO THE MCDONA	TI	TLE									
29) FLEXIBLE DUCTWORK SHALL NOT PENETRA FIRE-RATED AND DRAFT STOP WALL PENE	EQPI			BCK	LAY	OUT					
30) ALL GREASE EXHAUST DUCTWORK SEAMS A THE EXTERNAL SURFACE OF THE DUCT SY WELDER.		_)						
31) IN THE EVENT OF ADDITIONAL FRYER CAP THE M/E WILL BE REQUIRED TO ASSESS T HIGHER AIRFLOW AT A POTENTIALLY HIGH REQUIRED OF THE M/E FOR PERMITTING. WILL BE REQUIRED TO AIR BALANCE THE	THESE D OF H+K WITHOU	DRAWING AND SHA JT H+K'S	LL NOT BE	TIONS ARE REPRODUC PERMISSIC	ED OR C						
32) ALL ROOF-TOP CONDENSING UNITS THAT	PART OF THE SCOPE OF WORK BY THE M/E. 2) ALL ROOF-TOP CONDENSING UNITS THAT DISCHARGE HORIZONTALLY SHALL BE ORIENTED SUCH THAT THE DISCHARGE DOES NOT BLOW IN THE DIRECTION OF AN OUTDOOR AIR INTAKE.										
ALL CABLES FURNISHED AND INSTALLED E	33) POS INSTALLER TO COORDINATE RELOCATION OF POS SYSTEM WITH O/O AND MCDONALDS CONSTRUCTION. ALL CABLES FURNISHED AND INSTALLED BY POS SUPPLIER.										
FINAL LOCATION OF NEW POS(S) TO BE CO	34) NEW POS(S) ARE SHOWN TO MEET NATIONAL BUILDING AND EQUIPMENT STANDARDS PER MCDONALD'S . FINAL LOCATION OF NEW POS(S) TO BE COORDINATED WITH O/O. POS INSTALLER TO COORDINATE LOCATION OF POS SYSTEM WITH O/O AND MCDONALDS CONSTRUCTION. ALL CABLES FURNISHED AND INSTALLED BY POS SUPPLIER.										
35) PLUMBING FOR COMBI OVENS TO BE ROUT GC TO VERIFY IF SINK HAS A GREASE INTE SYMBOL LEGEND					⊥ D : 1∩	05	1				
Imposition I		FUTURE/OPTIONAL EQUIPMENT			-	00	T				
 ↓ SINGLE OUTLET (SB OR TL) ↓ QUAD OUTLET (SB OR TL) 		NEW EQUIPMENT ON EQUIPMENT PLAN RELOCATED EQUIPMENT ON		•	2 0	F 3					
SPECIAL OUTLET (SEE SCHEDULE) J-BOX SEXHAUST DUCT ABOVE HOOD		EQUIPMENT PLAN EXISTING EQUIPMENT	SHI	ЕЕТ	:						
 EXHAUST DUCT ABOVE HOOD EXHAUST DUCT ABOVE HOOD DATA CAPLE 		EQUIPMENT ON ROUGH-IN PLAN EXISTING TRUSSES									
DATA CABLE SLEEVE DEEDICEDATION LINES		SERVICE AREA NEW MENU BOARD VALANCE		ļ		-2					
 REFRIGERATION LINES WATER OR GAS LINE CLEAN OUT 		EXISTING FULL WALL EXISTING LOW WALL									
CLEAN OUT		NEW FULL WALL NEW LOW WALL									
FLOOR DRAIN		DEMO WALL									

	N-NEW, R-RELO, E-EXISTING, F-FUTURE, O-OPTIC	MAL	1.1	NIT ID	UL LIST	NSF LIST	FI IRN RV	REMARKS		EQUIPMENT SCHEDULE
1.18 2	OPT ITEM DESCRIPTION N MODULAR FRONT COUNTER BASE	DÉCO	R M	NIT ID IFC	UL LIST -	2	FURN BY GC	REMARKS SIZE VARY PER MATRIX		
1.19 1 20.02 1	N MODULAR FRONT COUNTER DELIVERY POD N AUTOMATED BEVERAGE SYSTEM 2.0	DÉCOI IMI CO		EE ELEV	-	2	GC KES	- INSTALLATION KIT INCLUDES	S/S CHASE & DA	TA LINE
20.99 1	N AUTOMATED BEVERAGE SYSTEM PRECOOLER	IMI CO	ORNELIUS 5	60000270	-	-	KES	USED W/ CORNELIUS BACK RC	•	
21.83 1 25.95 1	N SUGAR DISPENSER N ICED TEA DISPENSER - 2 TIER STAND	SURES H&K		'EE ELEV '8269	-	-	KES KES	-		
25.96 1 39.15 1	N SLIMLINE ICED BEVERAGE DISPENSER-LOW PROFILE N ICE MACHINE - 1000 LB.			DON-LP EE ELEV	E32066 SA4027		KES KES	KES TO VERIFY EXACT QUANT	ITY PER MARKET	
39.13 1 41.09 1	N ICE MACHINE REMOTE CONDENSER - 1000 LB.			IANCVDT1200			KES	-		
44.03 1 98.08 1	N 5' CENTER ISLAND, BEV HEIGHT N BLZ CART (FOR BDAP)	H&K INTER		ee elev Ee elev	-	2	KES KES	-		
201.16 1	N WORK TABLE F/ ABS & CONDIMENTS	H&K	S	EE ELEV	-	2	KES	PC TO INSTALL LINE FOR DRA		
201.36 1 201.44 1	N READY ON ARRIVAL CART 14" X 30" N DIGITAL ASSEMBLY STAND - 30" X 36"	METRO METRO		ee elev Ee elev		2	KES KES	W/ 3" CASTERS STAINLESS ST STAINLESS STEEL TOP W/ 5 S		IELVES
207.11 1	N 30" BASE REFRIGERATOR NEW SWITCHABLE	H&K	S	EE ELEV	-	-	KES			
207.93 1 215.07 1	N MCFLURRY SHELF N POS REGISTER - DELIVERY	H&K BY OV		ee elev Y owner	- OEM	2	KES OWNER	MOUNTS TO COMBO MACHINE	· 	
216.00 2 217.00 2	N POS - VIDEO MONITOR N PARK/SERVE/ROTATE BUMP BAR	POS BY OW		OS Y OWNER	E106786	5 -	OWNER OWNER	GC/POS INSTALLER TO COORL		
217.00 2 219.00 2	N PARNySERVE/ROTATE BOPP BAR N POS - RECEIPT PRINTER	POS		OS OS	- OEM	-	OWNER	SHELF REQUIRED FOR FRONT		
7000.20 1 7003.00 1	N DESSERT BUTLER N BASE REF. SHELF & DUAL POINT OAS @ C.I (WITH CUPS)	H&K H&K	-	I&K #84150	-	-	KES KES	-		
7159.11 1	O OPTIONAL UNIVERSAL CART 18" X 24" 3 TIER	METRO		EE ELEV	-	2	KES	-		
7800.00 1 8002.02 1	R RELOCATED OATMEAL R RELOCATED UNDER COUNTER CART	-	-		-	-	OWNER OWNER	- EQP. INSTLR. TO RELOCATE E	QUIPMENT	
8004.12 3	R RELOCATED DIGITAL MENUBOARD	-	-		-	-	OWNER	EQP. INSTLR. TO RELOCATE E	QUIPMENT, GC T	
8021.01 1 8021.10 1	R RELOCATED COFFEE BREWER R RELOCATED SPECIALTY COFFEE	-	-		-	-	OWNER OWNER	EQP. INSTLR. TO RELOCATE E		
8021.11 1 8021.87 1	R RELOCATED BLENDED ICE MACHINE R RELOCATED STANDOFF, COFFEE/SMOOTHIE STATIONS	-	-		-	-	OWNER OWNER	EQP. INSTLR. TO RELOCATE E		O RELO UTILITIES AS NEEDED
8021.87 1 8021.90 1	R RELOCATED STANDOFF, COFFEE/SMOOTHLE STATIONS R RELOCATED BRACKET FOR BUMP BAR & PRINTER	-	-		-	-	OWNER	EQP. INSTER. TO RELOCATE E		
8023.05 1 8025.01 1	R RELOCATED COFFEE CREAM DISPENSER R RELOCATED ICED BEVERAGE DISPENSER	-	-		-	-	OWNER OWNER	EQP. INSTLR. TO RELOCATE E	-	O RELO UTILITIES AS NEEDED
8046.00 1	R RELOCATED CUP DISPENSER VERTICAL F/ 3 TUBES	-	-		-	-	OWNER	EQP. INSTLR. TO RELOCATE E	QUIPMENT	
8051.03 3 8181.01 1	R RELOCATED CUP LID HOLDER-SINGLE WIDE, 8" HIGH R RELOCATED SPECIALTY COFFEE REFRIGERATOR-27" WIDE	-	-			-	OWNER OWNER	EQP. INSTLR. TO RELOCATE E	-	O RELO UTILITIES AS NEEDED
8203.02 1	R RELOCATED HEAT TREAT COMBINATION SHAKE/SUNDAE MACHIN	E -	-		-	-	OWNER	EQP. INSTLR. TO RELOCATE E	QUIPMENT, GC T	O RELO UTILITIES AS NEEDED
8205.11 1 8207.00 1	R RELOCATED FROZEN CARBONATED BEVERAGE R RELOCATED BLENDER - COUNTERTOP - MCFLURRY	-	-		-	-	OWNER OWNER	EQP. INSTLR. TO RELOCATE E		
8207.90 1	R RELOCATED CUP TUBES FOR HEAT TREAT MACHINE	-	-		-	-	OWNER	EQP. INSTLR. TO RELOCATE E		
8215.00 2 8216.00 1	R RELOCATED POS PC HARDWARE - FRONT COUNTER R RELOCATED POS - VIDEO MONITOR	BY OW POS		OS OS	OEM E106786	5 -	OWNER OWNER	GC/POS INSTALLER TO COORL GC/POS INSTALLER TO COORL		
8216.05 1 8217.00 1	R RELOCATED ORB MONITOR R RELOCATED PARK/SERVE/ROTATE BUMP BAR	BY OW BY OW		Y OWNER	-	-	OWNER OWNER	GC/POS INSTALLER TO COORL		
8218.00 2	R RELOCATED POS - CASH DRAWER	BY OW		Y OWNER	OEM	-	OWNER	GC/POS INSTALLER TO COORE		
8219.00 2 9009.10 1	R RELOCATED POS - RECEIPT PRINTER E EXISTING UTILITY CHASE F/ DRIVE THRU CBB	POS	P	OS	OEM	-	OWNER OWNER	GC/POS INSTALLER TO COORD	DINATE RELOCAT	ION W/ O/O
9010.93 1	E EXISTING CUP LID HOLDER	-	-		-	-	OWNER	-		
9020.00 1 9021.01 1	E EXISTING AUTOMATED BEVERAGE SYSTEM E EXISTING COFFEE BREWER	-	-		-	-	OWNER OWNER	-		
9023.05 1	E EXISTING COFFEE CREAM DISPENSER	-	-		-	-	OWNER	-		
9024.01 1 9025.01 2	E EXISTING ORANGE JUICE DISPENSER E EXISTING ICED BEVERAGE DISPENSER	-	-			-	OWNER OWNER	-		
9039.15 1	E EXISTING ICE MACHINE - 1000 LB. E EXISTING HEATED LANDING ZONE	-	-		-	-	OWNER OWNER	-		
9043.1529044.131	E EXISTING HEATED LANDING ZONE E EXISTING CENTER ISLAND- 48" HLZ HEIGHT	-	-		-	-	OWNER	-		
9045.64 1 9046.02 1	E EXISTING BEVERAGE CABINET - DRIVE-THRU E EXISTING SYRUP BOTTLE RACK - 5-SYRUP PUMPS, HORIZONTAL	-	-		-	-	OWNER OWNER	-		
9051.03 2	E EXISTING CUP LID HOLDER-SINGLE WIDE, 8" HIGH	-	-		-	-	OWNER	-		
9065.36 1 9070.91 1	E EXISTING 3-VAT FRYER - GAS - F/F/F E EXISTING EXHAUST HOOD	-	-		-	-	OWNER OWNER	-		
9159.03 1	E EXISTING CART	-	-		-	-	OWNER	-		
9181.00 1 9201.02 1	E EXISTING REFRIGERATOR - WORK TOP - 27" WIDE E EXISTING DRIVE-THRU POS STAND W/OVERHEAD SHELVES - 21" I	- DP x 36" L -	-			-	OWNER OWNER	-		
9201.98 1	E EXISTING WORK TABLE F/ ABS & CONDIMENTS E EXISTING POS PC HARDWARE - D/T	-	-		-	-	OWNER OWNER	-		
9215.98 1 9216.00 6	E EXISTING POS - VIDEO MONITOR	-	-		-	-	OWNER	-		
9218.00 1 9237.00 1	E EXISTING POS - CASH DRAWER E EXISTING PIE DISPLAY	-	-		-	-	OWNER OWNER	-		
										ELECTRICAL SCHEDULE
			FLA DRAW		RECEP TYPE		COND V		HGT AFF	REQUIREMENTS
20.00 E2 1 20.00 E3 1		120/1 DATA CABLE	5.0 -	-	5-20R -	20A -	1/2"C-2	2#12 DETERMINE IN FIELD -	2'-0" SEE RMKS	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER
20.99 E2 1 207.11 E1 1		120/1 120/1	14.9		5-20R 5-20R	20A 20A	1/2"C-2 1/2"C-2			EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE
207.11 L1 1 21.83 E1 1			0.6			20A SEE RMKS			2'-3"	EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE
211.00 E6 1 215.07 E1 1	DELIVERY TABLET POS REGISTER - DELIVERY	120/1 120/1 ISOLATED	3.0 3.0		(2)5-20R IG4700	20A 20A	1/2"C-2			- EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE
215.07 E3 1	POS REGISTER - DELIVERY	-	-	-	4x4x4 PB	-	-	-	3'-6"	EXTEND 2" CONDUIT ABOVE CEILING FOR POS DATA CABLES
216.00 E11 1 216.00 E12 1		120/1 ISOLATED DATA CABLE	1.5 EA. -		IG4700 4x4x4 PB	20A -	1/2"C-2	#12IG DETERMINE IN FIELD	5'-6" 5'-6"	EC TO PROVIDE/INSTALL RECEPTACLE, POS INSTALLER TO CONN. POS EXTEND 2" CONDUIT ABOVE CEILING. CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER
216.00 E2 1	POS - VIDEO MONITOR	DATA CABLE	-	-	-	-	-	DETERMINE IN FIELD		CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER
216.00 E3 1 217.00 E1 2		120/1 ISOLATED DATA CABLE	1.5 EA. -	-	IG4700 -	SEE RMKS	1/2"C-2	#12IG DETERMINE IN FIELD EXISTING/RELOCATE		EC TO PROVIDE/INSTALL RECEPTACLE, POS INSTALLER TO CONN. POS POS TO COORD W/ MCD 0/0, RELOCATE EXIST. AS REQUIRED.
219.00 E7 1	POS - RECEIPT PRINTER	120/1 ISOLATED	0.7	-	IG4710	20A	1/2"C-2	#12IG DETERMINE IN FIELD	SEE RMKS	PLUGS INTO CHASE OR SURFACE MOUNT RECEPTACLE IG4710
219.00 E8 1 219.05 E3 1		DATA CABLE 120/1 ISOLATED	- 0.7	-	- IG4700	- 20A	- 1/2"C-2	+ 12IG DETERMINE IN FIELD	SEE RMKS 3'-2"	CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER -
39.15 E3 1	ICE MACHINE - 1000 LB.	120/1	1.1	1 1/2	5-15R	15A	1/2"C-2	#12 DETERMINE IN FIELD	@ CLG	CIRCUIT BREAKERS SHALL BE HACR TYPE
41.09 E1 1 8021.01 E3 1		-	10.8 VERIFY DRAW			15ASEE RMKS20ASEE RMKS			SEE RMKS SEE RMKS	EC TO PROVIDE WP 30A-3P NF DISC AT UNIT ON ROOF - CIRCUIT BREAKERS SHALL BE HACR TYPE EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE
8021.10 E1 1 8021.11 E1 1		VERIFY	VERIFY DRAW			30A SEE RMKS				EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE
	RELOCATED SMOOTHIE MACHINE	VERIFY VERIFY	VERIFY DRAW VERIFY DRAW			20A SEE RMKS VERIFY BREAKE				EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE EC TO BRING POWER DOWN WALL, PROVIDE/INSTALL RECEPTACLE
8023.05 E3 1	RELOCATED CREAM DISPENSER		VERIFY DRAW	VERIFY VERIFY		VERIFY BREAKE				
8023.05 E3 1 8181.01 E3 1	RELOCATED REFRIGERATOR- SPECIALTY COFFEE - 27" WIDE	VERIFY				VERIFY BREAKE	R VERIFY	DETERMINE IN FIELD	SEE RMKS	BEV INSTALLER TO DETERMIN/SUPPLY/INSTALL ELEC CONVERTER AS REQUIRED
8023.05 E3 1 8181.01 E3 1 8203.02 E1 1 8205.11 E1 1	RELOCATED REFRIGERATOR- SPECIALTY COFFEE - 27" WIDE RELOCATED HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE FROZEN CARBONATED BEVERAGE	VERIFY VERIFY VERIFY	VERIFY DRAW VERIFY DRAW	VERIFY				DETERMINE IN FIELD	SEE RMKS	OUTLET FOR FOOT PEDAL - BLENDER PLUGS INTO FOOT PEDAL PLUG
8023.05 E3 1 8181.01 E3 1 8203.02 E1 1 8205.11 E1 1 8207.00 E1 1	RELOCATED REFRIGERATOR- SPECIALTY COFFEE - 27" WIDE RELOCATED HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE FROZEN CARBONATED BEVERAGE RELOCATED BLENDER - MCFLURRY - COUNTERTOP	VERIFY VERIFY VERIFY VERIFY	VERIFY DRAW VERIFY DRAW VERIFY DRAW	VERIFY VERIFY	VERIFY	VERIFY BREAKE				EC TO PROVIDE/INSTALL RECEPTACLE, POS INSTALLER TO CONN. POS
8023.05 E3 1 8181.01 E3 1 8203.02 E1 1 8205.11 E1 1 8207.00 E1 1 8216.00 E1 1 8216.00 E2 1	RELOCATED REFRIGERATOR- SPECIALTY COFFEE - 27" WIDE RELOCATED HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE FROZEN CARBONATED BEVERAGE RELOCATED BLENDER - MCFLURRY - COUNTERTOP RELOCATED POS - VIDEO MONITOR RELOCATED POS - VIDEO MONITOR	VERIFY VERIFY VERIFY VERIFY VERIFY VERIFY	VERIFY DRAW VERIFY DRAW VERIFY DRAW VERIFY DRAW VERIFY DRAW	VERIFY VERIFY VERIFY VERIFY	VERIFY VERIFY VERIFY	VERIFY BREAKE	R VERIFY R VERIFY	DETERMINE IN FIELD DETERMINE IN FIELD	SEE ELEV	EC TO PROVIDE/INSTALL RECEPTACLE, POS INSTALLER TO CONN. POS CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER
8023.05 E3 1 8181.01 E3 1 8203.02 E1 1 8205.11 E1 1 8207.00 E1 1 8216.00 E1 1 8217.00 E1 1	RELOCATED REFRIGERATOR- SPECIALTY COFFEE - 27" WIDE RELOCATED HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE FROZEN CARBONATED BEVERAGE RELOCATED BLENDER - MCFLURRY - COUNTERTOP RELOCATED POS - VIDEO MONITOR RELOCATED POS - VIDEO MONITOR RELOCATED PARK/ROTATE/SERVE BUMP BAR	VERIFY VERIFY VERIFY VERIFY VERIFY VERIFY VERIFY	VERIFY DRAW VERIFY DRAW VERIFY DRAW VERIFY DRAW VERIFY DRAW	VERIFY VERIFY VERIFY VERIFY VERIFY	VERIFY VERIFY VERIFY VERIFY	VERIFY BREAKE VERIFY BREAKE VERIFY BREAKE	R VERIFY R VERIFY R VERIFY	DETERMINE IN FIELD DETERMINE IN FIELD EXISTING/RELOCATED	SEE ELEV	EC TO PROVIDE/INSTALL RECEPTACLE, POS INSTALLER TO CONN. POS CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER
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