x = Optional Equipment VIF = Verify in Field
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EQUIPMENT SCHEDULE

ITEM	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
1.00		1	FRONT COUNTER	SEE RMKS	SEE PLAN	–	2	SEE RMKS	SEE PLAN FOR DIMENSIONS AND CONFIGURATION	CONTACT PROJECT MANAGER FOR SUPPLIER
1.02		2	FRONT COUNTER SUPPORT WALL – STAINLESS STEEL	KES	–	–	2	KES		
2.05		3	UNDER COUNTER CART – 24"W. x 18"D. TEAM SERVICE FRONT COUNTER	INTERMETRO	UC18–DMS	–	2	KES	–	
2.07		3	TRAY CART – 14"W. x 18"D. TEAM SERVICE FRONT COUNTER	INTERMETRO	M1418–TC	–	2	KES	–	
3.00		3	CASH DRAWER SHELF	KES	1SH18	–	2	KES	LOCATED UNDER FRONT COUNTER	
4.09		6	MENUBOARD – 2' POP MODULE	FLORIDA PLASTICS	–	E187403	–	KES	–	
4.10		1	MENUBOARD – 3' MENU MODULE	FLORIDA PLASTICS	–	E187493	–	KES	–	
4.11		1	MENUBOARD – 6' CENTER EVM AND H–POP MODULE	FLORIDA PLASTICS	–	E187493	–	KES	–	
4.18		1	MENUBOARD – BEZELS & BLACK SPACERS	FLORIDA PLASTICS	–	–	–	KES	HIGH IMPACT RE–IMAGING FRAMES AND SPACERS. COORD. WITH O/O & DECOR CO.	
6.08		3	8 PLACE CUP TUBE HOUSING TEAM SERVICE FRONT COUNTER	KES	CT08–18	–	2	KES	REGION TO VERIFY LOCATION AND NUMBER OF TUBES	
7.23		1	12'–0" SELF–SERVE BEVERAGE STATION– WALL – (R.H.)	KES	SSBB–12W–RH	–	2	KES	CORIAN CUT–OUT FROM ICE DISPENSER USED FOR ITS DOORS DRESS KIT	
9.08		1	UTILITY CHASE – ICE MAKER ON ABS VERSION	KES	4"x4"	–	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES	
9.09		2	UTILITY CHASE – ICE MAKER ON TOWER VERSION	KES	4"x4"	–	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES	
9.14		1	UTILITY CHASE – D/T BEVERAGE CABINET VERSION	KES	15"x4"x76"	–	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS, CO2 AND WATER	
10.05		1	SELF–SERVE CONDIMENT CENTER	KES	–	–	2	KES	–	
10.06		2	NAPKIN DISPENSER	GEORGIA PACIFIC	–	–	2	KES	(1) STANDARD, (1) OPTIONAL	
10.07		1	CO2 DRIVEN KETCHUP DISPENSERS	PERFECTION	MCD–2	–	2	KES	W/ (2) DISPENSERS, (2) PRODUCT SADDLES, REGULATOR, PUMP & CIP KIT	
20.00		1	AUTOMATED BEVERAGE SYSTEM	IMI CORNELIUS	56129995	–	–	KES	INSTALLATION KIT INCLUDES STAINLESS STEEL CHASE & DATA LINE	
21.00		3	COFFEE BREWER (GLASS DECANTERS)	BLOOMFIELD	1018SVM	E9253	4	KES	SUPPLIED WITH (3) GLASS DECANTERS	
23.05		2	COFFEE CREAM DISPENSER	SILVER KING	SKMCD1P	–	20	KES	–	
23.10		1	ESPRESSO BREWER	FRANKE	SINFONIA 1–STEP	–	4	KES	–	
24.01		2	ORANGE JUICE DISPENSER	TAYLOR	C009	–	18	KES	–	
25.01		7	SLIMLINE ICED BEVERAGE DISPENSER	BUNN–O– MATIC	TDO–N	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET	
25.02		2	ICED TEA BREWER	BUNN–O– MATIC	TB3Q	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET	
29.01		2	SODA TOWER – COLD PLATE – 8 VALVE – LEVER CONTROL	IMI CORNELIUS	ED250SBC	E47307	18	KES	–	
31.03		1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	MULTIPLEX	50–BIB	E121878	18	KES	–	
32.00		1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – PRESSURE GAUGE MONITOR	CUNO	SQLP–2	–	–	KES	FILTRATION SYSTEM FOR COFFEE/ESPRESSO MAKERS	
32.01		1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – 20 GAL. TANK	CUNO	SQLP–2	–	–	KES	FILTRATION SYSTEM FOR COFFEE/ESPRESSO MAKERS	
36.00	X	2	BULK COKE	CHART INDUSTRIES	10867511	–	18	MANU–FACTURER	SYRUP LINES BY CHART INDUSTRIES	
37.00	X	1	BULK CO2 – 750 LB.	CHART INDUSTRIES	11770676	–	–	MANU–FACTURER	–	
38.00	X	1	CLEAN IN PLACE PANEL	CHART INDUSTRIES	10557431	–	18	MANU–FACTURER	MOUNT 6" x 7" H. BOX @ 3"–0" AFF TO BOX CENTER LINE	
39.10		1	ICE MACHINE – 1300 LB.	MANITOWOC	QY–1394N	SA4027	12	KES	–	
39.15		3	ICE MACHINE – 1000 LB.	MANITOWOC	IB1024YC	SA4027	12	KES	–	
40.00		1	ICE MACHINE CHASE	KES	4"x6"x48"	–	2	KES	–	
41.09		3	ICE MACHINE REMOTE CONDENSER – 1000 LB.	MANITOWOC	CVD1075	SA4027	12	KES	–	
43.15		2	HEATED LANDING ZONE	FRYMASTER	HLZ–22	–	4	KES	–	
44.13		1	CENTER ISLAND– 48"	KES	CIMFY–48	–	2	KES	–	
44.22		1	CENTER ISLAND– 72"	KES	–	–	2	KES	2' (4) CUP CABINET, 2' (8) CUP CABINET, 2' ICE BIN CABINET	
44.27		1	OUTLET BOX – EQUIPMENT MOUNTED	KES	–	–	–	KES	4' CENTER ISLAND TO BE PROVIDED BY KES TO INCLUDE OUTLET RACEWAY	
44.29		1	BREAKER PANEL– 125 AMP – 3 PHASE – EQUIPMENT MOUNTED	KES	–	–	–	KES	–	
44.35		1	SIDE BY SIDE MONITOR STAND WITH PIE DISPLAY	KES	–	–	–	KES	–	
44.37		1	RUNNER CONDIMENT CENTER	KES	4' WIDE	–	2	KES	–	
45.11		1	BEVERAGE CABINET – DRIVE–THRU STATION W/ ICE CBB	KES	FS00866	–	2	KES	PROVIDE WITH UNDERCOUNTER ICE BIN	
45.12		1	BEVERAGE CABINET – DRIVE–THRU TABLE DRINK 4 CUP	KES	18002203	–	2	KES	–	
46.00		1	CUP DISPENSER 3 PIECE FOAM	KES	FS00861	–	2	KES	–	
46.01		1	DOME LID/PRINTER/BUMP BAR HOLDER	KES	–	–	2	KES	–	
46.02		2	SYRUP BOTTLE RACK – (6) SYRUP PUMPS	PRONTO	–	–	2	KES	–	
46.03		2	DOOR MOUNTED SYRUP RAIL	KES	–	–	2	KES	–	
46.05		1	CUP DISPENSER 3 PIECE PLASTIC	KES	–	–	2	KES	–	
47.00		1	SALAD CASE – FULL HEIGHT	BEVERAGE AIR	R18–HGS–26	SA2651	7	KES	ORDER 23 FOR WHITE FINISH OR RETAIN 01 FOR STAINLESS	
49.00	X	1	CO2 FILL BOX – 6 1/2"Wx18"H	CHART INDUSTRIES	8512829	–	–	KES	SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT	
51.03		2	CUP LID HOLDER 3 HIGH S/S	KES	18001351	–	2	KES	–	
51.04		8	CUP LID HOLDER SINGLE STACK CBI	KES	18002211	–	2	KES	–	
51.05		1	CUP LID HOLDER SINGLE STACK CBI 44 OZ	KES	18002259	–	2	KES	–	
61.00		1	FRY BAGGING STATION 36"	KES	FB01–4	E99018	2	KES	–	
65.17		1	3–VAT FRYER – ELECTRIC – S/S/S	FRYMASTER	BIH314–9CSD	E44571	4	KES	–	
66.03		1	4–VAT FRYER – ELECTRIC – F/F/F/F	FRYMASTER	BIH414–CSD	E44571	4	KES	–	
73.00		1	UNIVERSAL EXHAUST HOOD (R.H.) ELECTRIC 3–VAT FRYER	KES	UH–50	MH12755	2	KES	–	
74.00		1	UNIVERSAL EXHAUST HOOD (R.H.) ELECTRIC 4–VAT FRYER	KES	UH–65	MH12755	2	KES	–	
80.00		3	MECHANICAL CHASE	KES	9"x18" SGCL	E163328	2	KES	–	
81.01		1	PRODUCT LANDING SHELF – SOLID TOP	KES	–	–	2	KES	–	
81.02		1	PRODUCT LANDING SHELF – CUT OUT TOP	KES	–	–	2	KES	–	
85.05		1	FROZEN FRY DISPENSER	RAM	280–F	E140753	4	KES	–	
91.00		1	WALL MOUNT FREEZER UNIT–SINGLE WIDE	KES	WF28–4	SA7329	7	KES	AIR–COOLED, SELF–CONTAINED – MOUNT BOTTOM AT 54" AFF	
94.06		1	UNIVERSAL EXHAUST HOOD (L.H.) 2–ELEC FULL–CLAM GRILLS	KES	UH–83	MH12755	2	KES	–	
96.03		2	36" CLAMSHELL GRILL – ELECTRIC	CARLAND	MWE–9501	E28898	4	KES	–	
97.00		1	MEAT FREEZER – SINGLE WIDE	KES	MF18–4	SA6032 S	2	KES	AIR–COOLED, SELF–CONTAINED	
97.01		1	MEAT FREEZER – DOUBLE WIDE	KES	MF30–4	SA6032 S	2	KES	AIR–COOLED, SELF–CONTAINED	
97.03		1	UHC TRAY HOLDER	KES	–	–	2	KES		
98.00		2	2–TIER APPLIANCE STAND	INTERMETRO	6TL22	–	2	KES	–	
98.04		1	EGG COOKER TABLE	KES	18001418	–	2	KES	–	
99.00		1	GRILL TOOL ORGANIZER	KES	60036	–	2	KES	–	
111.10		1	BUN BOX	KES	–	–	2	KES	–	
116.01		4	UNIVERSAL HOLDING CABINET – 2–SIDED – PIN & SLEEVE	FRYMASTER	UHC–P4	E44571	4	KES	–	
117.02		1	UHC TABLE – 2 – SIDED – 38" DP. – TWIST–LOCK	KES	TLUHC–57–38	–	2	KES	–	
117.13		2	UHC TABLE – 2 SIDED – 38"DP.x28"W. – PIN&SLEEVE	KES	TLUHC–28–38	–	2	KES	DUAL SIDED PREP FOR ONE UHC CABINET	
118.00		2	Q'ING OVEN – PIN & SLEEVE	AMANA	MC23MPW	E40456	4	KES	–	
119.08		1	MUFFIN/BAGEL TOASTER/ Q'ING OVEN TABLE – 2–SIDED – 46"W x 29"D	KES	TLMB2TQ–46	–	2	KES	–	
120.06		1	UNIVERSAL TOASTER TABLE	KES	–	–	2	KES	–	
122.22		1	UNIVERSAL TOASTER – PIN & SLEEVE	ANTUNES	UTX–200	–	4	KES	–	
122.23		1	CLUB TOASTER – PIN & SLEEVE	ANTUNES	CTX–200	–	4	KES	–	
123.21		1	MODULAR PREP TABLE W/ REFRG. – 2–SIDED – 30" x 80" – LEFT HAND – PIN & SLEEVE	KES	PPT154X	–	7	KES	–	
125.00		1	RAPID FILET BUN STEAMER	PRINCE CASTLE	625–MFY	–	4	KES	–	
131.00		2	BISCUIT OVEN	WELLS	M4200–3S	E8070	4	KES	–	
134.02		1	VEGETABLE SINK	KES	SK04–4	–	2	KES	HOT AND COLD WATER PER REGIONS REQUEST	
135.00	X	1	MARINATOR	WELLS	MDMW–3TL	E8070	4	KES	–	
137.00		2	36"x36"x1" DEEP STAINLESS STEEL INSULATED WALL PANEL	KES		–	2	KES	MOUNT AT 36"AFF TO BOTTOM OF PANEL	
143.00		1	EGG STATION – MANUAL – TWIST LOCK	ANTUNES	MES–1200	E49407	4	KES	–	
151.15		1	WORK SINK – HOUSTON CODE	KES	SK–SPL	–	2	KES	–	
153.00		1	SCULLERY SHELVING KIT – 3 TIER – 14"x36"	INTERMETRO	SHSS–4	–	2	KES	–	
153.04		1	SMALLWARE WALL ORGANIZER	INTERMETRO	SW1812–MPS	–	2	KES	–	
154.00		1	BRUSH CABINET	DISPLAY HOUSE	TBC–1	–	4	KES	–	

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EQUIPMENT SCHEDULE

ITEM	O	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
155.00		1	GRILL TOOL SHARPENER	COZZINI	HGS–1	–	2	KES	–	
156.00		1	GRILL TOOL SHARPENER SHELF	KES	9SH10	–	2	KES	–	
157.00		1	TRASH LINER DISPENSER SHELF	KES	A0053	–	2	KES	–	
159.03		1	UNIVERSAL PARTS CART	INTERMETRO	MCD–1830UPC	–	2	KES	–	
160.01		4	CHEMICAL SYSTEM	KAY CHEMICAL	–	–	–	MANU–FACTURER	INCLUDES SPRAY–BOTTLE ACTIVATED AND FLOORCARE DISPENSERS	
163.00		2	FIRE EXTINGUISHER – 5 LB. – ABC	ANSUL	SEE RMKS	–	–	SEE RMKS	LOCAL ANSUL AGENT SPECIFIES, SUPPLIES & LOCATES PER LOCAL CODE	
163.01		2	FIRE EXTINGUISHER – 6 L – ACK	ANSUL	SEE RMKS	–	–	SEE RMKS	LOCAL ANSUL AGENT SPECIFIES, SUPPLIES & LOCATES PER LOCAL CODE	
163.02		4	REMOTE ANSUL PULL	ANSUL	4835	EX3470	–	SEE RMKS	PROVIDED BY LOCAL ANSUL AGENT WHEN REQUIRED	
171.00		1	WALK–IN COOLER / FREEZER FLOORLESS	KOLPAK	–	E41693	7	KES	–	
174.00		1	REMOTE CONDENSING UNIT	BOHN	MAC8X	SA4272	–	KES	BEACON II SYSTEM	
175.11		1	COOLER EVAPORATOR – AIR–COOLED	BOHN	ADT104BEB2N6MK	SA1525	–	KES	BEACON SYSTEM II EVAPORATOR	
176.19		1	FREEZER EVAPORATOR – AIR–COOLED	BOHN	LET160BEB2N6MK	SA1525	–	KES	BEACON SYSTEM II EVAPORATOR	
178.00		1	REACH–IN FREEZER – SINGLE WIDE	TRAULSEN	G12000MC	SA1230	7	KES	HINGED RIGHT	
178.02		1	REACH–IN FREEZER – SINGLE WIDE	TRAULSEN	G12001MC	SA1230	7	KES	HINGED LEFT	
179.01		1	REFRIGERATOR – PASS–THRU	BEVERAGE AIR	RID18–HGS–26–BO	SA2651	7	KES	–	
179.03		1	REFRIGERATOR – UNDERCOUNTER – 27" WIDE	BEVERAGE AIR	UCR27	SA2651	7	KES	–	
179.09		1	REFRIGERATOR – BOTTLED BEVERAGE	KES	BBR	–	7	KES	–	
181.00		1	REFRIGERATOR – WORK TOP – 27" WIDE	BEVERAGE AIR	WTR27	SA2651	7	KES	–	
181.01		1	SPECIALTY COFFEE REFRIGERATOR – 27" WIDE	BEVERAGE AIR	WTR27A–SR	SA2651	7	KES	PROVIDE WITH REINFORCED HINGES	
181.04		1	REFRIGERATOR – WORKTOP – 48" WIDE	BEVERAGE AIR	WTR48	SA2651	7	KES	–	
187.08		2	FREEZER SHELVING 24" x 60" x 74" H. – 4–TIER	INTERMETRO	–	–	2	KES	–	
188.01		1	FLOOR RACK SYSTEM – 12" x 12" x 1– 1/2" H.	CARLISLE FOOD SERVI	2710		52	KES	–	
188.02		1	COOLER SHELVING 18" x 26" x 76" H. – UNIVERSAL HOLDING CART	INTERMETRO	MCD1826TC	–	2	KES	–	
188.04		1	SHAKE MIX AND CHEESE UNIT 24" x 36" – 3–TIER	INTERMETRO	MCD2436–SCS	–	2	KES	–	
189.22		2	COOLER SHELVING 24" x 48" x 76" H. – 4 –TIER	INTERMETRO	–	–	2	KES	–	
189.23		3	COOLER SHELVING 24" x 60" x 76" H. – 4 –TIER	INTERMETRO	–	–	2	KES	–	
189.63		1	COOLER SHELVING 24" x 42" x 76" H. – 4 –TIER	INTERMETRO	–	–	2	KES	–	
191.00		1	VALANCE SHELVING – 18"x36"	INTERMETRO	M1836C–MP	–	2	KES	MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	
191.01		2	VALANCE SHELVING – 18"x48"	INTERMETRO	M1848C–MP	–	2	KES	MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	
191.02		1	VALANCE SHELVING – 18"x60"	INTERMETRO	M1860C–MP	–	2	KES	MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	
191.03		1	VALANCE SHELVING – 18"x30"	INTERMETRO	M1830C–MP	–	2	KES	MOUNT AT 5'–0"AFF TO SHELF BOTTOM FOR ABOVE WASHER APPLICATION	
191.04		1	VALANCE SHELVING – 18"x36"	INTERMETRO	M1836C–MP	–	2	KES	MOUNT AT 5'–0"AFF TO SHELF BOTTOM –W/ST STL. LINER FOR SALAD EQUIP	
191.06		2	VALANCE SHELVING – 18"x42"	INTERMETRO	M1842C–MP	–	2	KES	MOUNT AT 6'–8"AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	
194.32		6	DRY SHELVING 26"x52"x84" H.– 4–TIER – MOBILE	DENSTOR	–	–	2	MANU–FACTURER	–	
194.33		6	DRY SHELVING 26"x84"x84" H.– 4–TIER – MOBILE	DENSTOR	–	–	2	MANU–FACTURER	–	
194.47		2	DRY SHELVING 26"x52"x84" H.– 4–TIER – FIXED	DENSTOR	–	–	2	MANU–FACTURER	–	
194.48		2	DRY SHELVING 26"x84"x84" H.– 4–TIER – FIXED	DENSTOR	–	–	2	MANU–FACTURER	–	
198.02		1	SAFE – STANDARD BLDG.	NKL	BSM412526 ABAXMC	–	–	OWNER	–	
197.01	X	3	HAND WASH TIMER	NATIONAL CONTROLS	TMD–T1715–120	E53595	–	KES	–	
201.13		1	DRIVE–THRU CASH STAND – 21" DP x 48" L	INTERMETRO	DT48–8	–	2	KES	SOLID WORK TOP, WIRE SHELVES	
201.15		1	READY NEXT DRIVE–THRU ASSEMBLY CART – 12" DP x 36" L	INTERMETRO	DTPC–36	–	2	KES	–	
201.16		1	DRIVE–THRU ABS CART	KES	–	–	2	KES	ABS DRINK STAGING CART WITH TROUGH	
201.18		1	COMBINED BEVERAGE CART	INTERMETRO	MCD–CBB	–	2	KES	–	
203.02		1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	TAYLOR	C602	SA2650	6	KES	SUPPLIED WITH CONE DISPENSER AND 7'–6" LONG CORD	ORDER #X59112 LID/FLURRY MOUNTING BRACKET KIT
205.07		1	SMOOTHIE MACHINE	–	–	–	6	KES	–	
207.00		1	BLENDER – COUNTERTOP – MCFLURRY	TAYLOR	BC10	E112422	8	KES	SUPPLIED WITH FOOT PEDAL	
207.02		1	MIX–IN DISPENSER – PORTION CONTROL– MCFLURRY	TAYLOR	X52037–2	–	2	KES	4 STANDARD SIZE DISPENSERS	
207.04		1	CUP/LID/SPOON ORGANIZER – MCFLURRY	TAYLOR	X52080	–	2	KES	–	
214.00		1	CREW VIDEO	BY OWNER	BY OWNER	–	–	OWNER	–	
214.01		1	CREW COMPUTER	BY OWNER	BY OWNER	–	–	OWNER	VERIFY LOCATION WITH PROJECT MANAGER	
214.02		1	CONNECTIVITY CABINET	BY OWNER	BY OWNER	–	–	OWNER	V.I.F. EXACT LOCATION FOR NETWORK RACK	
215.00		3	POS PC HARDWARE – FRONT COUNTER	BY OWNER	BY OWNER	OEM	–	OWNER	INCLUDES MONITOR AND CPU	(1) LOCATED @ C.I. FOR TANDEM DRIVE–TRHU
215.02		4	POS PC HARDWARE – 2 BOOTH D/T	BY OWNER	BY OWNER	OEM	–	OWNER	INCLUDES MONITOR AND CPU	
215.04		4	POS – KVS MONITOR	BY OWNER	BY OWNER	OEM	–	OWNER	–	
218.00		5	POS – VIDEO MONITOR W/SUPPORTS	BY OWNER	BY OWNER	E106786	–	OWNER	SUPPORTS INSTALLED BY GC IF REQUIRED – MOUNT @ 5'–6" AFF	IF ITEM #20.00 IS USED MOUNT AT 6'–6" AFF IN DRIVE–THRU BOOT
217.01	X	2	DRIVE–THRU WINDOW AIR UNIT	READY ACCESS	AA300	–	–	OWNER	–	
217.02	X	1	DRIVE–THRU CAMERA & MONITOR SYSTEM	USSI/MISECO	MC351AVCS	E108428	–	OWNER	(1) CAMERA, (1) 5" B/W MONITOR, MOUNTING BRACKET, 100' CABLE	
217.13	X	3	MERGE POINT MONITOR (DOUBLE DRIVE–THRU)	BY OWNER	BY OWNER	–	–	–	MONITORS ARE REQUIRED FOR SIDE BY SIDE DRIVE THRU SYSTEM	–
217.14	X	1	POS – ORDER MONITOR (DOUBLE DRIVE THRU)	BY OWNER	BY OWNER	E106786	–	OWNER	SUPPORTS INSTALLED BY GC IF REQUIRED – MOUNT @ 5'–6" AFF	
217.17	X	1	AIR CURTAIN – 48"	MARS	48NCH	LISTED	–	GC	VERIFY MANUFACTURER MODEL # & TYPE WITH PROJECT MANAGER	–
219.00		6	POS – RECEIPT PRINTER	BY OWNER	BY OWNER	OEM	–	OWNER	SHELF REQUIRED FOR FRONT COUNTER APPLICATIONS	
219.04		1	LABELING SYSTEM	PAXAR	9415	–	–	KES	–	
220.00	X	1	POS – COIN DISPENSER	BY OWNER	BY OWNER	OEM	–	OWNER	–	
221.01	X	1	POS – OFFICE	BY OWNER	BY OWNER	OEM	–	OWNER	–	
221.08		1	ISP STAND	LUXOR	ATV560V	–	–	OWNER	AVAILABLE THROUGH POS SUPPLIER	
223.07		1	WASHER – ELECTRIC	WHIRLPOOL	GCAM2782TQ	–	–	KES	–	
224.00		2	AUDIO SYSTEM – 2 BOOTH	BY OWNER	–	–	–	AUDIO SUPP.	–	
225.03		1	OFFICE PACKAGE/DESK UNIT	DENSTOR	2000–0100	–	–	MANU–FACTURER	W/ 24"Dx 50"L WORK SURFACE,2 PEDESTAL FILES AND PENCIL DRAWER	
225.04		1	OFFICE PACKAGE/ 2–WALL CABINETS	DENSTOR	2000–0200	–	–	MANU–FACTURER	–	
225.05		1	OFFICE PACKAGE/HIGH WORK SURFACE	DENSTOR	2000–0300	–	–	MANU–FACTURER	W/(6) L–BRACKETS – WORK SURFACE IS 73" LONG – CUT IN FIELD IF REQ.	
225.06		1	OFFICE PACKAGE W/3 DRAWER LATERAL FILE	DENSTOR	2000–0400	–	–	MANU–FACTURER	–	
225.07		1	WIRELESS HEADSET CABINET	DISPLAYHOUSE	M–22	–	–	KES	–	
226.01		4	CREW LOCKERS – 12"x18"x (6' HIGH)	DENSTOR	5–121878	–	2	MANU–FACTURER	–	
237.00		1	PIE DISPLAY	CARTER HOFFMAN	MDPM4	8386	4	KES	–	
700.02		2	MOP SINK	GC	TBD	–	2	GC	–	
700.09		2	ECONOMY OEP BOX W/MOUNTING HARDWARE	ACS	OEP–6	E71309	–	KES	6" W. x 24" L. x 4" DP.	
700.10	X	1	BULK OIL SYSTEM	RTI	BI–3F	SEE RMKS	4	SUPPLIER	IF AVAILABLE IN MARKET – ETL ELECTRICAL RATING: 9900762	
700.14		3	HAND SINK 18 x 20" – STAINLESS STEEL NORTH CAROLINA CODE	GC	18" x 20"	–	2	GC	ADA APPROVED LEVER FAUCET HANDLES REQUIRED	K.E.S. TO PROVIDE SIDE SPLASHES WHEN REQUIRED BY LOCAL CODE
700.18	X	1	BULK OIL FILL BOX – 8"Wx10"H	RTI	–	–	–	KES	SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT	
700.22		1	WATER HEATER – SEALED COMBUSTION – GAS	RHEEM–RUUD	HE119–199	–	2	GC	FOR USE WITH POWER SOAK SINK	
800.01		1	EXHAUST HOOD	GREENHECK	GO–4.00–S	MH11726	2	MANU–FACTURER	BISCUIT OVEN APPLICATION	

SEE SHEET K2.0 FOR EQUIPMENT LAYOUT AND TAG IDENTIFICATION

1 / K2.1 KITCHEN SCHEDULE
1/4"=1'–0"

NO.	DESCRIPTION	DATE	BY
–	–	–	–
–	–	–	–
–	–	–	–

PREPARED BY:
Michael R. Silkas
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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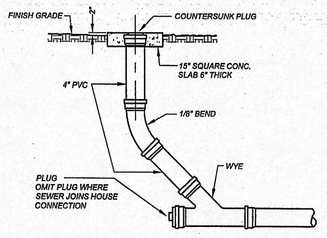
DRAWN BY: MJN
STD. ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

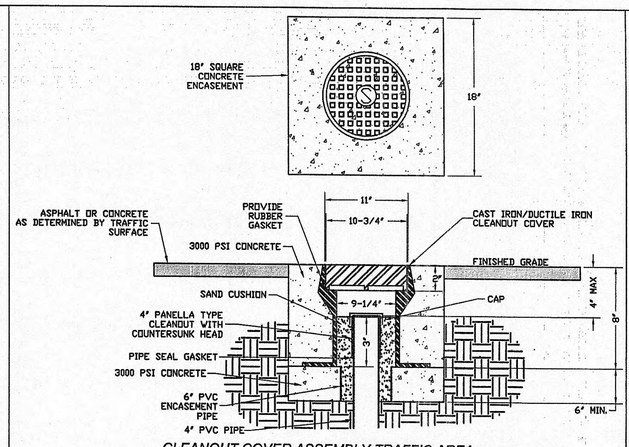
TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748
STE ID: 041–0084

SHEET NO.: 041–0084–00–0
K2.1
KIT SCHED.

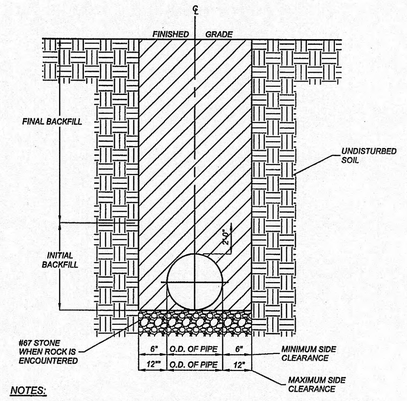
K:\DW\EAST\– RAL\041–0084–00–0 HARRIMAN\45114MS_K2–1.DWG 01–22–2009 15:31



SANITARY SEWER CLEANOUT



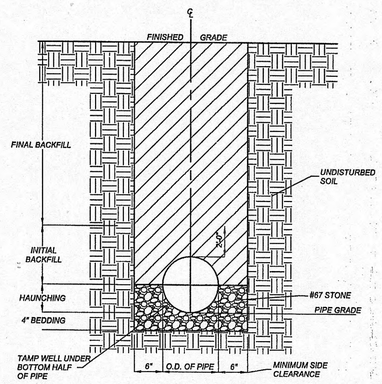
CLEANOUT COVER ASSEMBLY TRAFFIC AREA



NOTES:

1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.
5. ACHIEVE 90% COMPACTION IN NON-TRAFFIC AREAS, AND 95% COMPACTION IN TRAFFIC AREAS.
6. IF IN EASEMENT 4" TOPSOIL, AND 12" CLEAN SELECT FILL IS REQUIRED.
7. NO BOULDERS 6" IN DIAMTER OR GREATER ALLOWED.

TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON AND REINFORCED CONCRETE PIPE



TYPICAL TRENCH BOTTOM DIMENSIONS FOR SDR 35 PVC GRAVITY PIPE

1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.

TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR PVC GRAVITY SEWER MAIN

TRENCH DETAILS

JOHN ANDREW CONNELLY — REGISTERED ENGINEER — No. 0010750 — STATE OF TENNESSEE — 11/6/09

STREET ADDRESS: 1705 SOUTH ROANE ST.

CITY: HARRIMAN | STATE: TN 37748

COUNTY: ROANE

TAX PARCEL NUMBER: 035LA002.00 | LOCATION CODE NUMBER: 041-0084

CSD FILENAME: 08466

REV	DATE	DESCRIPTION	BY	ISSUERE

BRITT PETERS AND ASSOCIATES INC. consulting engineers

550 S. Main Street
Suite 301
Greenville, SC 29601
(864) 271-8869
Fax (864) 233-5140
www.brittpeters.com

McDonald's

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OFFICE: RALEIGH REGION

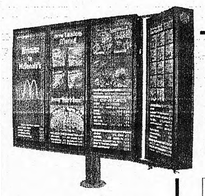
ADDRESS: 4601 SIX FORKS ROAD - SUITE 200 - RALEIGH, N.C. 27609

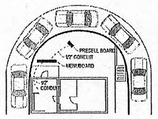
PLAN APPROVAL

SIGNATURE (2 REQUIRED)	DATE
REGIONAL MGR.	
REGIONAL DEV. DIRECTOR	
REGIONAL CONSTRUCTION MGR.	
REGIONAL REAL ESTATE MGR.	
CO-SIGN SIGNATURES	
AREA CONSTRUCTION MGR.	
CONTRACTOR	

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

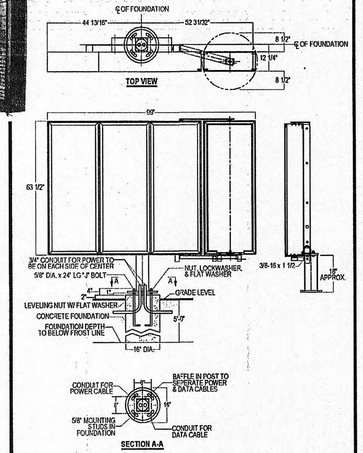
C-9
DETAILS





FOUNDATION & CONDUIT LAYOUT:
The typical foundation minimum requirement for the menuboard and presell board is 16" diameter and 60" deep. Four 5/8" anchor bolts in a square 8" pattern need to be installed to mount the sign base to the foundation.

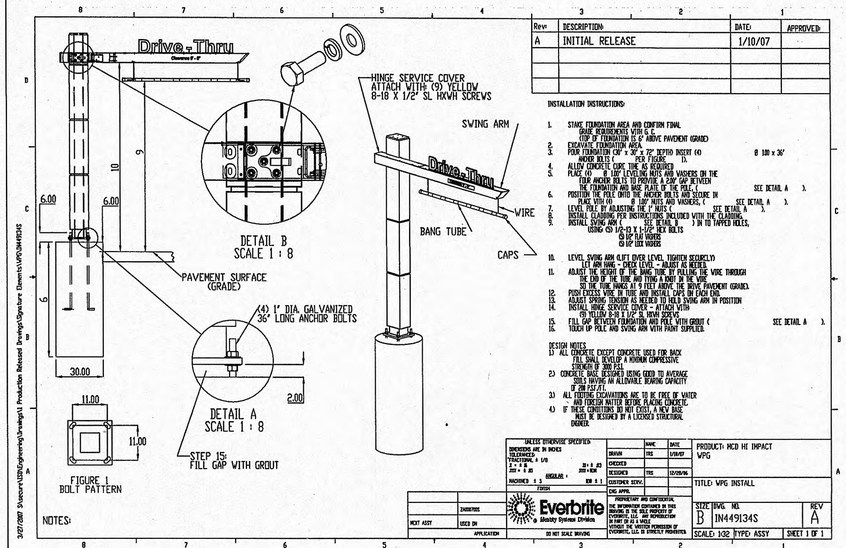
FOUNDATION INSTALLATION:
1. Dig the hole to the depth as detailed to desired length, width, and depth.
2. Use the template provided and position the anhor bolts in the hole.
3. Position the conduit as shown.
4. Position the steel reinforcement cage and fill the hole with concrete.
5. Position the conduit as shown.



NOTES:
1. Approximate weight of entire board is 334 lbs.
2. Power requirements are 110V 60HZ
3. 3 column section of board uses 3.2 amp load
4. Single column section of board uses 1.6 amp load

FP-43 3-PANEL MENUBOARD WITH ADDER PANEL
FOUNDATION INSTALLATION

ImagePoint. Imagepoint Architectural Graphics Communications



Rev	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/10/07	

INSTALLATION INSTRUCTIONS:
1. STAKE FOUNDATION AREA AND CONFIRM FINAL GRADE REQUIREMENTS WITH G.C.
2. EXCAVATE FOUNDATION AREA AS REQUIRED FOR FOUNDATION (1" ± ABOVE PAVEMENT GRADE)
3. FOR FOUNDATION 24" x 24" x 72" DEEP INSERT (4) 8 1/8 x 36" ANCHOR BOLTS (SEE FIGURE 1).
4. ALIGN CONCRETE CURB TO BE FLUSH.
5. PLACE (4) 1" DIA. LEVELING NUTS AND WASHERS ON THE (4) ANCHOR BOLTS AT FOUNDATION & ADJUST TO PROPER HEIGHT & TOP LEVEL.
6. POSITION THE POLE ONTO THE ANCHOR BOLTS AND SECURE IN PLACE WITH (4) 1" DIA. NUTS AND WASHERS. (SEE DETAIL A).
7. LEVEL POLE BY ADJUSTING THE (4) NUTS (SEE DETAIL A).
8. INSTALL CLADDING PER INSTRUCTIONS INCLUDED WITH THE CLADDING.
9. INSTALL SWING ARM WITH (3) 5/8" DIA. BOLTS (3/4 W TAPPED HOLES, USING <3> (3-D X 1-1/2" HEX BOLTS
   (3) SP FLAT WASHERS
   (3) SP LOCK WASHERS
10. LEVEL SWING ARM CLIFT OVER LEVEL TIGHTEN SECURELY TO ARM MAKE SURE SPACE EXIST ALIGHT AS NEEDED.
11. ADJUST THE HEIGHT OF THE BANG TUBE BY PULLING THE WIRE THROUGH THE END OF THE POLE AND TYING A KNOT IN THE WIRE 30" THE BANG TUBE IS 9 INCH ABOVE THE FINISH PAVEMENT (GRADE).
12. POKE EXCESS WIRE IN THE POLE AND INSTALL CAPS ON EACH END.
13. ADJUST SWING BOOM AS NEEDED TO LEVEL SWING ARM IN POSITION
14. INSTALL HINGE SERVICE COVER - ATTACH WITH (9) YELLOW 8-18 X 1/2" SL HXW SCR'S.
15. FILL GAP BETWEEN FOUNDATION AND POLE WITH GROUT (SEE DETAIL A).
16. TORQUE UP POLE AND SWING ARM WITH PAINT SUPPLIED.

DESIGN NOTES:
1) ALL CONCRETE EXCEPT CONCRETE USED FOR BACK FILL SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
2) CONCRETE MAY BE DESIGNED USING GOOD TO AVERAGE SOILS HAVING AN ALLOWABLE BEARING CAPACITY OF 2000 PSF.
3) ALL FOOTING EXCAVATIONS ARE TO BE FREE OF WATER AND CONCRETE PLACED BEFORE PLACING CONCRETE.
4) IF THESE CONDITIONS DO NOT EXIST, A NEW BASE MUST BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES
FRACTIONS ± 1/8
2 PLACE DECIMAL ± .03
3 PLACE DECIMAL ± .010
ANGULAR ± 1°
MACHINED ± 1

	NAME	DATE
DRAWN	TES	1/10/07
CHECKED		
DESIGNER	TES	10/09/06
CUSTOMER SERV.		
ENG APPR.		

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PRODUCT: MCD HI IMPACT VPG
TITLE: VPG INSTALL
SIZE | DWG. NO. | REV
B | IN449134S | A
SCALE: 1/2 TYPD ASSY | SHEET 1 OF 1

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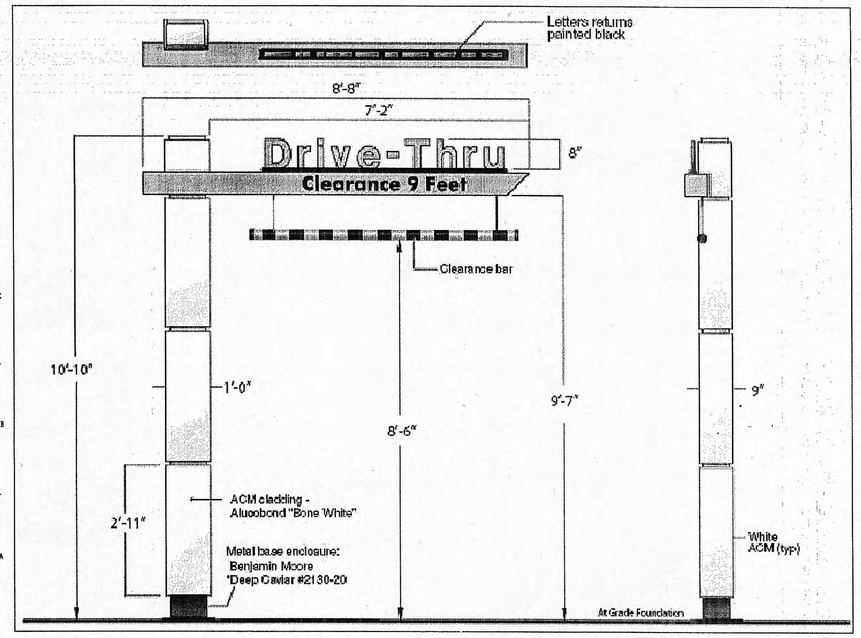
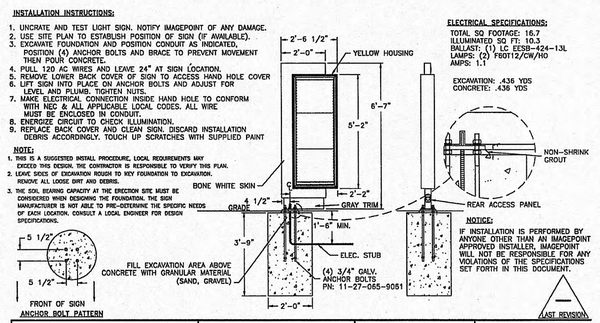


INSTALLATION INSTRUCTIONS:
1. UNCRATE AND TEST LIGHT SIGN. NOTIFY IMAGEPOINT OF ANY DAMAGE.
2. USE SITE PLAN TO ESTABLISH POSITION OF SIGN (IF AVAILABLE).
3. EXCAVATE FOUNDATION AND POSITION CONDUIT AS INDICATED, POSITION (4) ANCHOR BOLTS AND BRACE TO PREVENT MOVEMENT THEN POUR CONCRETE.
4. PULL 120 AC WIRES AND LEAVE 24" AT SIGN LOCATION.
5. REMOVE LOWER BACK COVER OF SIGN TO ACCESS HAND HOLE COVER
6. LIFT SIGN INTO PLACE ON ANCHOR BOLTS AND ADJUST FOR LEVEL AND PLUMB. TIGHTEN NUTS.
7. MAKE ELECTRICAL CONNECTION INSIDE HAND HOLE TO CONFORM WITH NEC & ALL APPLICABLE LOCAL CODES. ALL WIRE MUST BE ENCLOSED IN CONDUIT.
8. ENERGIZE CIRCUIT TO CHECK ILLUMINATION.
9. REPLACE BACK COVER AND CLEAN SIGN. DISCARD INSTALLATION DEBRIS ACCORDINGLY. TOUCH UP SCRATCHES WITH SUPPLIED PAINT

NOTE:
1. THIS IS A SUGGESTED INSTALL PROCEDURE, LOCAL REQUIREMENTS MAY EXCEED THIS DESIGN. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THIS PLAN.
2. LEAVE SIDES OF EXCAVATION ROUGH TO KEY FOUNDATION TO EXCAVATION. REMOVE ALL LOOSE DIRT AND DEBRIS.
3. THE SOIL BEARING CAPACITY AT THE ERECTION SITE MUST BE CONSIDERED WHEN DESIGNING THE FOUNDATION. THE SIGN MANUFACTURER IS NOT ABLE TO PRE-DETERMINE THE SPECIFIC NEEDS OF EACH LOCATION. CONSULT A LOCAL ENGINEER FOR DESIGN SPECIFICATIONS.

ELECTRICAL SPECIFICATIONS:
TOTAL SQ FOOTAGE: 16.7
ILLUMINATED SQ FT: 10.3
BALLAST: (1) LC EESB-424-13L
LAMPS: (2) F60T12/CW/HO
AMPS: 1.1

EXCAVATION: .436 YDS
CONCRETE: .436 YDS



NOTICE:
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P/N: 131788
Dwgs: PRE-ROLL BOARD INST. FOR 90 & 150PM
Customer: McDONALD'S
Dsgnr: JDH | Date: 11-12-08
Dwg by: JDH | Date: 11-12-08
Drawing Numbers: B37634

Rev	Date	Init	Comp	Description of change
1	----	----	----	----
2	----	----	----	----
3	----	----	----	----
4	----	----	----	----
5	----	----	----	----
6	----	----	----	----
7	----	----	----	----

Sheet 1 of 1

INSTALLATION INSTRUCTIONS:
1. UNCRATE AND INSPECT SIGN. NOTIFY IMAGEPOINT OF ANY DAMAGE.
2. USE SITE PLAN TO ESTABLISH POSITION OF SIGN (IF AVAILABLE).
3. EXCAVATE FOUNDATION AND POSITION (4) ANCHOR BOLTS AND BRACE TO PREVENT MOVEMENT THEN POUR CONCRETE. ALLOW CONCRETE TO CURE FOR 7 DAYS.
4. LIFT COLUMN/CLAD INTO PLACE ON ANCHOR BOLTS AND ADJUST FOR LEVEL AND PLUMB USING LEVELING NUTS. TIGHTEN ALL NUTS.
5. REMOVE TOP BACK PANEL. INSTALL BREAK-AWAY CLEARANCE ARM (SUPPORT END OF THE ARM WHILE ATTACHING BOLTS SO THAT ARM INSTALLS LEVEL). MATCH ARM TO PLATE AND BOLT TOGETHER (SEE DETAIL A). REINSTALL BACK PANEL.
6. ADJUSTMENT MAY BE NEEDED TO INSURE THE ARM BREAKS AWAY PROPERLY. (SEE ADJUSTMENT DETAIL FOR EXPLANATION)
7. REMOVE LIFTING ANGLE AND REPLACE WITH SUPPLIED HOLE PLUG
8. USE NON-SHRINK GROUT TO FILL IN GAP AT LEVELING NUTS
9. PAINT COLUMN & BACK FILL PER NOTE ON SHEET 2.
10. CLEAN SIGN AND DISCARD INSTALLATION DEBRIS ACCORDINGLY. TOUCH UP SCRATCHES WITH SUPPLIED PAINT

NOTE:
1. THIS IS A SUGGESTED INSTALL PROCEDURE, LOCAL REQUIREMENTS MAY EXCEED THIS DESIGN. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THIS PLAN.
2. LEAVE SIDES OF EXCAVATION ROUGH TO KEY FOUNDATION TO EXCAVATION. REMOVE ALL LOOSE DIRT AND DEBRIS.
3. THE SOIL BEARING CAPACITY AT THE ERECTION SITE MUST BE CONSIDERED WHEN DESIGNING THE FOUNDATION. THE SIGN MANUFACTURER IS NOT ABLE TO PREDETERMINE THE SPECIFIC NEEDS OF EACH LOCATION. CONSULT A LOCAL ENGINEER FOR DESIGN SPECIFICATIONS.

NOTICE:
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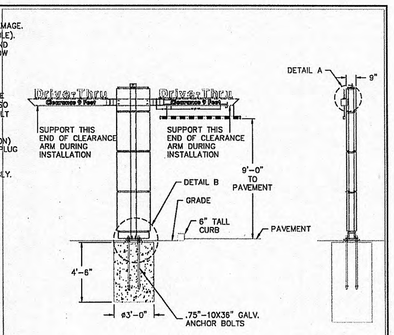

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P/N: 131153
Dwgs: INSTALL D/T PYLON GATEWAY DOUBLE
Customer: McDONALD'S 16-IMPACT
Dsgnr: LAC | Date: 09/22/08
Dwg by: LAC | Date: 09/22/08
Drawing Numbers: B37347

Rev	Date	Init	Comp	Description of change
1	----	----	----	----
2	----	----	----	----
3	----	----	----	----
4	8-22-08	JDH	10/2/08	Updated to new standards
5	----	----	----	----
6	----	----	----	----
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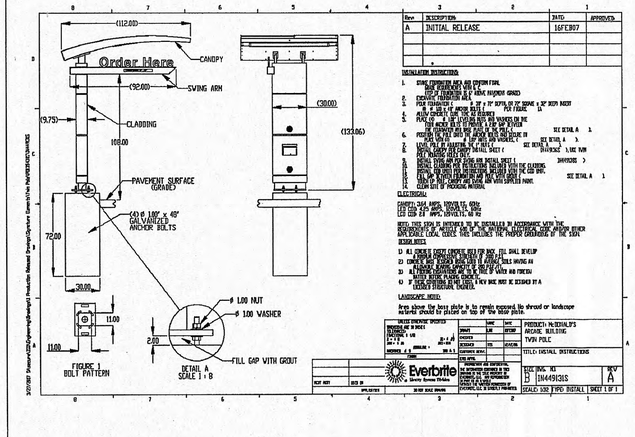
Sheet 1 of 2



Rev	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	16FEB07	

INSTALLATION INSTRUCTIONS:
1. STAKE FOUNDATION AREA AND CONFIRM FINAL GRADE REQUIREMENTS WITH G.C.
2. EXCAVATE FOUNDATION AS REQUIRED FOR FOUNDATION (1" ± ABOVE PAVEMENT GRADE)
3. FOR FOUNDATION 24" x 24" x 72" DEEP INSERT (4) ø 1.00 x 48" ANCHOR BOLTS (SEE FIGURE 1).
4. ALIGN CONCRETE CURB TO BE FLUSH.
5. PLACE (4) ø 1.00" LEVELING NUTS AND WASHERS ON THE (4) ANCHOR BOLTS AT FOUNDATION & ADJUST TO PROPER HEIGHT & TOP LEVEL.
6. POSITION THE POLE ONTO THE ANCHOR BOLTS AND SECURE IN PLACE WITH (4) ø 1.00" NUTS AND WASHERS. (SEE DETAIL A).
7. LEVEL POLE BY ADJUSTING THE (4) NUTS (SEE DETAIL A).
8. INSTALL CLADDING PER INSTRUCTIONS INCLUDED WITH THE CLADDING.
9. INSTALL SWING ARM WITH (3) 5/8" DIA. BOLTS (3/4 W TAPPED HOLES, USING <3> (3-D X 1-1/2" HEX BOLTS
   (3) SP FLAT WASHERS
   (3) SP LOCK WASHERS
10. LEVEL SWING ARM CLIFT OVER LEVEL TIGHTEN SECURELY TO ARM MAKE SURE SPACE EXIST ALIGHT AS NEEDED.
11. ADJUST THE HEIGHT OF THE BANG TUBE BY PULLING THE WIRE THROUGH THE END OF THE POLE AND TYING A KNOT IN THE WIRE 30" THE BANG TUBE IS 9 INCH ABOVE THE FINISH PAVEMENT (GRADE).
12. POKE EXCESS WIRE IN THE POLE AND INSTALL CAPS ON EACH END.
13. ADJUST SWING BOOM AS NEEDED TO LEVEL SWING ARM IN POSITION
14. INSTALL HINGE SERVICE COVER - ATTACH WITH (9) YELLOW 8-18 X 1/2" SL HXW SCR'S.
15. FILL GAP BETWEEN FOUNDATION AND POLE WITH GROUT (SEE DETAIL A).
16. TORQUE UP POLE AND SWING ARM WITH PAINT SUPPLIED.

ELECTRICAL:
POWER: 120 VOLTS, 1PH/2W, 60 HZ
LED 120 V.A. AMPS, 1.0 AMPS
LED 220 V.A. AMPS, 0.5 AMPS, 50/60 HZ

NOTE: THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 70 OR THE NATIONAL ELECTRICAL CODE, AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES THE PROPER GROUNDING OF THE SIGN.

DESIGN NOTES:
1) ALL CONCRETE EXCEPT CONCRETE USED FOR BACK FILL SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
2) CONCRETE MAY BE DESIGNED USING GOOD TO AVERAGE SOILS HAVING AN ALLOWABLE BEARING CAPACITY OF 2000 PSF.
3) ALL FOOTING EXCAVATIONS ARE TO BE FREE OF WATER AND CONCRETE PLACED BEFORE PLACING CONCRETE.
4) IF THESE CONDITIONS DO NOT EXIST, A NEW BASE MUST BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER.

LANDSCAPE NOTE:
Area above the base plate is to remain exposed. No shrub or landscape material should be placed on top of the base plate.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES
FRACTIONS ± 1/8
2 PLACE DECIMAL ± .03
3 PLACE DECIMAL ± .010
ANGULAR ± 1°
MACHINED ± 1

	NAME	DATE
DRAWN	LM	2/07/07
CHECKED		
DESIGNER	TES	10/09/06
CUSTOMER SERV.		
ENG APPR.		

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TITLE: INSTALL INSTRUCTIONS
SIZE | DWG. NO. | REV
B | IN449136S | A
SCALE: 1/2 TYPD INSTALL | SHEET 1 OF 1

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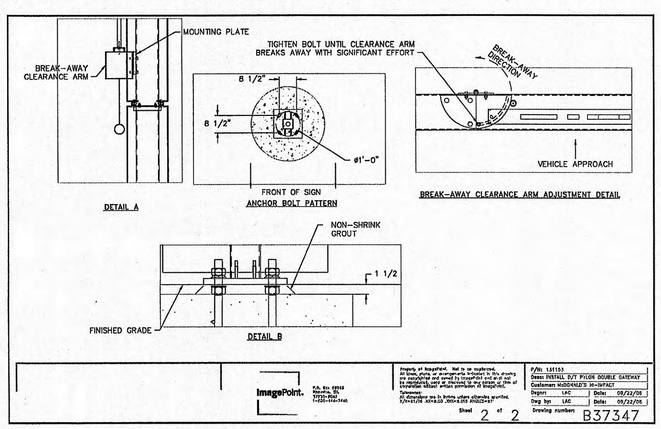

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3	----	----	----	----
4	----	----	----	----
5	----	----	----	----
6	----	----	----	----
7	----	----	----	----

Sheet 2 of 2

REV	DATE	DESCRIPTION	BY	ISSUE/REF

BRITT PETERS AND ASSOCIATES INC.
consulting engineers
550 S. Main Street
Suite 301
Greenville, SC 29601
(864) 271-8869
Fax (864) 233-5140
www.brittpeters.com

McDonald's®
RALEIGH REGION
4801 SIX FORKS ROAD - SUITE 200 - RALEIGH, N.C. 27609

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OFFICE
ADDRESS

CO-SIGN SIGNATURES

	DATE
PLAN APPROVAL	
SIGNATURE (2 REQUIRED)	
REGIONAL MGR.	
REGIONAL DEV. DIRECTOR	
REGIONAL CONSTRUCTION MGR.	
REGIONAL REAL ESTATE MGR.	
AREA CONSTRUCTION MGR.	
CONTRACTOR	

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

STREET ADDRESS
1705 SOUTH ROANE ST.

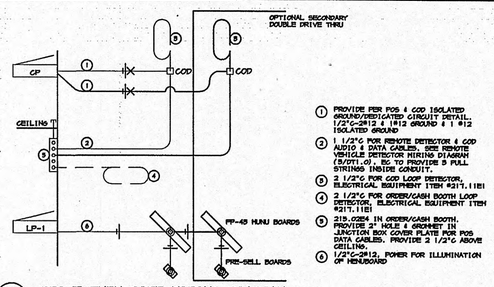
CITY: HARRIMAN
STATE: TN 37748
COUNTY: ROANE

TAX PARCEL NUMBER
035LA002.00

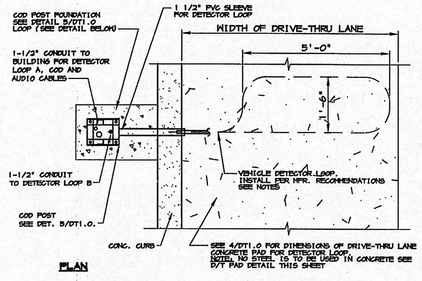
LOCATION CODE NUMBER
041-0084

CSD FILENAME:
08466

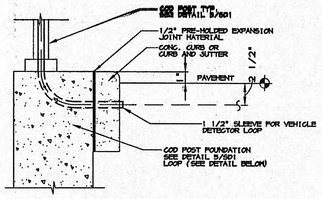
C-10
MENU BOARD DETAILS



2 / DT1.0 DRIVE THRU SITE WIRING DIAGRAM
(COD AND SPEAKER POST)

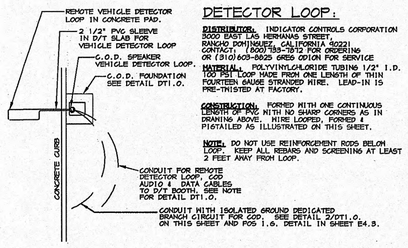


PLAN



SECTION

5 / SD2 DETECTOR LOOP DETAIL AT C.O.D.
NOT TO SCALE



DETECTOR LOOP:

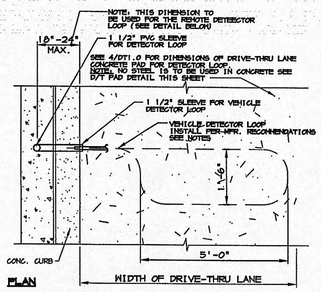
DISTRIBUTOR: INDIGATOR CONTROLS CORPORATION 5000 EAST LAS HERMANAS STREET RANCHO DOMINGUEZ, CALIFORNIA 90221 CONTACT / (800)-736-7612 FOR ORDERING OR (310)609-6825 GRES OPTION FOR SERVICE

MATERIAL: POLYVINYLCHLORIDE TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD-IN IS PRE-TWISTED AT FACTORY.

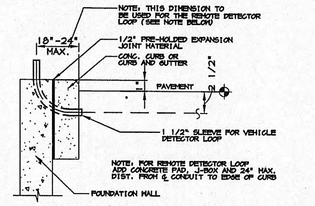
CONSTRUCTION: FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS IN DRAWING ABOVE. WIRE LOOPED, FORMED & PIGTAILED AS ILLUSTRATED ON THIS SHEET.

NOTE: DO NOT USE REINFORCEMENT RODS BELOW LOOP. KEEP ALL REBARS AND SCREENING AT LEAST 2 FEET AWAY FROM LOOP.

3 / SD1 REMOTE VEHICLE DETECTOR WIRING DIAGRAM
NOT TO SCALE



PLAN



SECTION

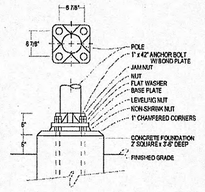
6 / SD2 DETECTOR LOOP DETAIL AT DRIVE THRU WINDOW
NONE

PAGE 1 of 1

FOUNDATION INSTALLATION:

The drawing below must be followed specifically. As a subcontractor, you will be held totally responsible for any deviation from the required specifications. Failure to follow these Instructions will require correction by modification/replacement at your expense. Items requiring special attention include:

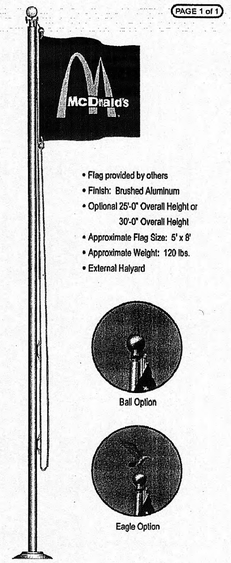
1. 6" bolt projection (above pedestal). On flag poles over 30' tall, check to confirm that the 6" projection will be sufficient.
2. Use of all 3 nuts/washer (leveling, top, and jam nuts). Anchor bolts must extend beyond top jam nut.
3. Use of non-shrink grout under base plate.
4. Pedestal 6" above finished grade with chamfered edges.
5. No base plate covers will be supplied; none are to be modified and/or installed.
6. All bolts, nuts, and washers must be galvanized.



FLAG POLE INSTALLATION:

1. Erect flag pole onto base provided and secure. Plumb pole with leveling nuts and secure with top and jam nuts.
2. Thread 5/16" dia. nylon rope over one pulley of revolving truck. Tie one swivel eye bolt snap to each end of rope. Secure eagle/ball into top of revolving truck with mounting bolt cockinut/loctite which have been provided.
3. Remove crating from job site immediately.

NOTE: Eagle should face away from the site.



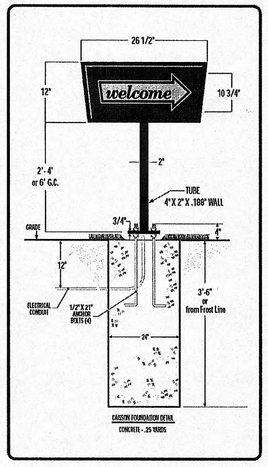
- Flag provided by others
- Finish: Brushed Aluminum
- Optional 25'-0" Overall Height or 30'-0" Overall Height
- Approximate Flag Size: 5' x 8'
- Approximate Weight: 120 lbs.
- External Halyard

Ball Option

Eagle Option

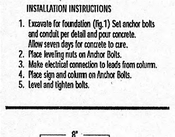
FLAG POLE INSTALLATION — ImagePoint

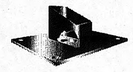
PAGE 1 of 1



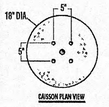
INSTALLATION INSTRUCTIONS

1. Excavate for foundation (Fig 1) Set anchor bolts and conduit per detail and pour concrete. Allow seven days for concrete to cure.
2. Place leveling nuts on Anchor Bolts.
3. Make electrical connection to leads from column.
4. Place sign and column on Anchor Bolts.
5. Level and tighten bolts.





BASE PLATE



90-5 DIRECTIONAL SIGN — ImagePoint



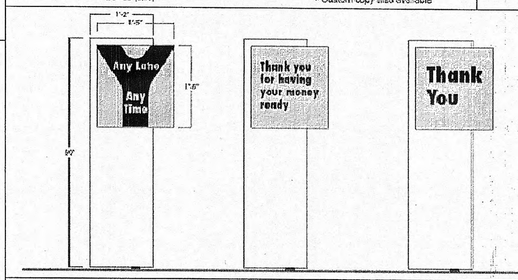


SPECIFICATIONS:

LAMPING:	(2) F96T12/CW/HO
BALLAST:	(1) Magnetek 256-046-F68
LOAD:	430 Watts
CIRCUIT:	(1) 20 Amp
SQ. FT.:	ACTUAL (9.52) BOXED (3.79)



* Custom copy also available



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ADDRESS: 4931 SIX FORKS ROAD - SUITE 200 - RALEIGH, N.C. 27609

PLAN APPROVAL

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REGIONAL DEV. DIRECTOR	
REGIONAL CONSTRUCTION MGR.	
REGIONAL REAL ESTATE MGR.	
CO-SIGN SIGNATURES	
AREA CONSTRUCTION MGR.	
CONTRACTOR	

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

STREET ADDRESS: 1705 SOUTH ROANE ST.

CITY: HARRIMAN | STATE: TN 37748

COUNTY: ROANE

TAX PARCEL NUMBER: 035LA002.00

CSD FILENAME: 08466

LOCATION CODE NUMBER: 041-0084

C-11
SD DETAILS

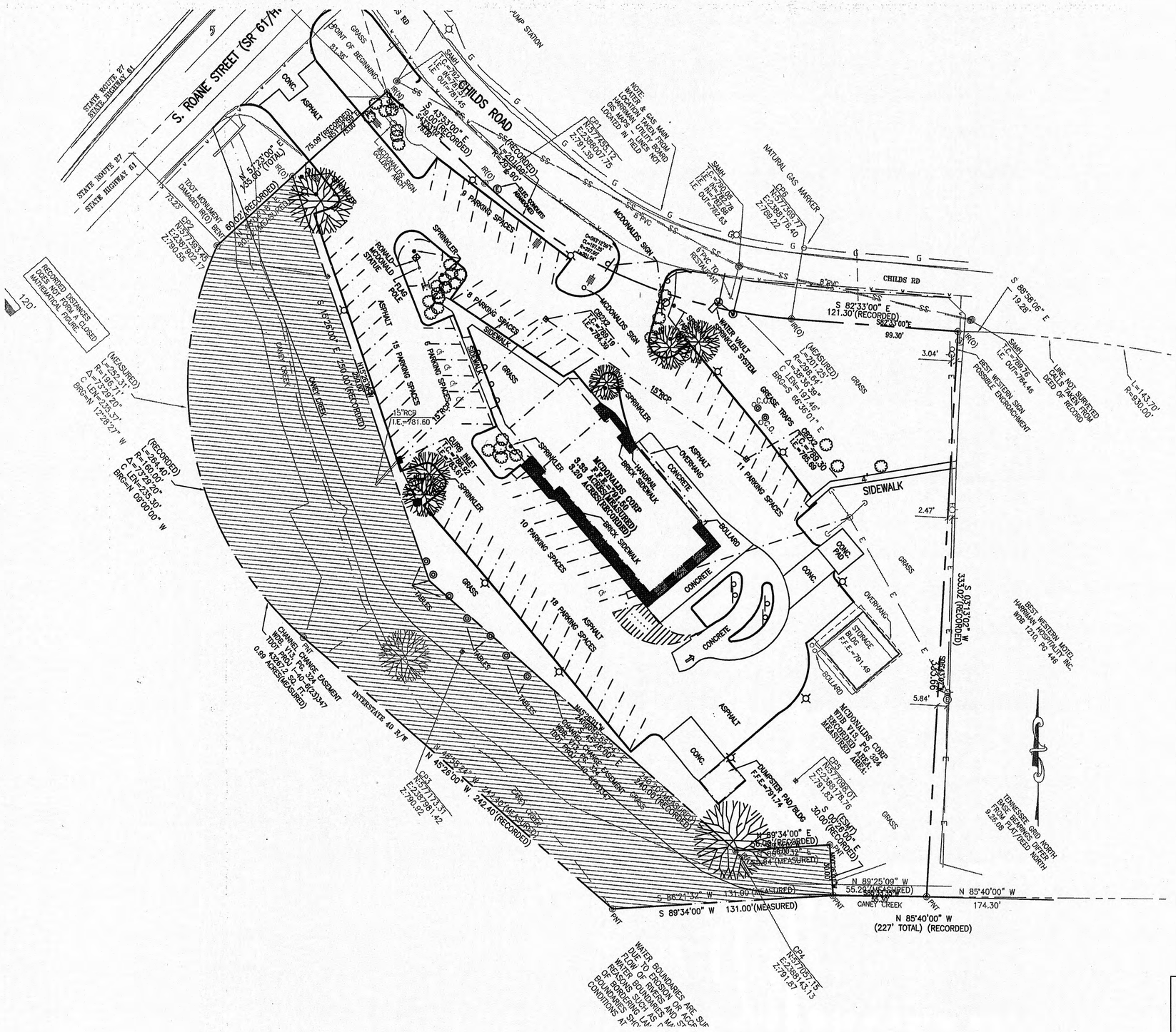
DEMOLITION NOTES:

1.) EXISTING SITE CONDITIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFERENCES FROM THE PLAN THAT WILL AFFECT CONSTRUCTION, IN WRITING, TO THE ENGINEER AND AWAIT FURTHER INSTRUCTIONS.

2.) ALL EXISTING TO REMAIN SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT THAT EXISTING ITEMS TO REMAIN ARE DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO COST TO THE OWNER.

3.) VERIFY ALL DEMOLITION IN THE R/W WITH THE APPROVED ENCROACHMENT PERMIT.

4.) ALL DEPRESSIONS FORMED BY DEMOLITION SHALL BE FILLED. REFER TO THE GRADING PLAN FOR FURTHER SPECIFICATIONS FOR FILL REQUIREMENTS.



PARKING INFORMATION

TOTAL SPACES 75 +RV PARKING	-	SPACES	-	X	-	@ 0 *
	3	HANDICAP SPACES	9'	X	19'	@ 60 *
	-	SPACES	-	X	-	@ 45 *
	72	SPACES	9'	X	19'	@ 60 *
	-	SPACES	-	X	-	@ 90 *

UTILITY INFORMATION

	SIZE	TYPE	LOCATION
SANITARY SEWER	6" LINE ON CHILDS ROAD		
WATER	2" GALVANIZED LINE ALONG CHILDS ROAD		
STORM SEWER	SITE DRAINS TO CANEY CREEK		
ELECTRIC	OVERHEAD LINE ALONG CHILDS ROAD		
GAS	LINA ALONG OTHER SIDE OF CHILDS ROAD		

SURVEY INFORMATION

PREPARED BY: SURVEYOR
ADDRESS
ADDRESS
PHONE
DATE OF SURVEY:X DATE OF MAP: X

PLAN SCALE: 1" =30'

STREET ADDRESS
1705 SOUTH ROANE ST.

CITY	STATE
HARRIMAN	TN 37748

COUNTY
ROANE

TAX PARCEL NUMBER	LOCATION CODE NUMBER
035LA002.00	041-0084
CSD FILENAME: 08466	

REV	DATE	DESCRIPTION	BY	ISSUE/REF
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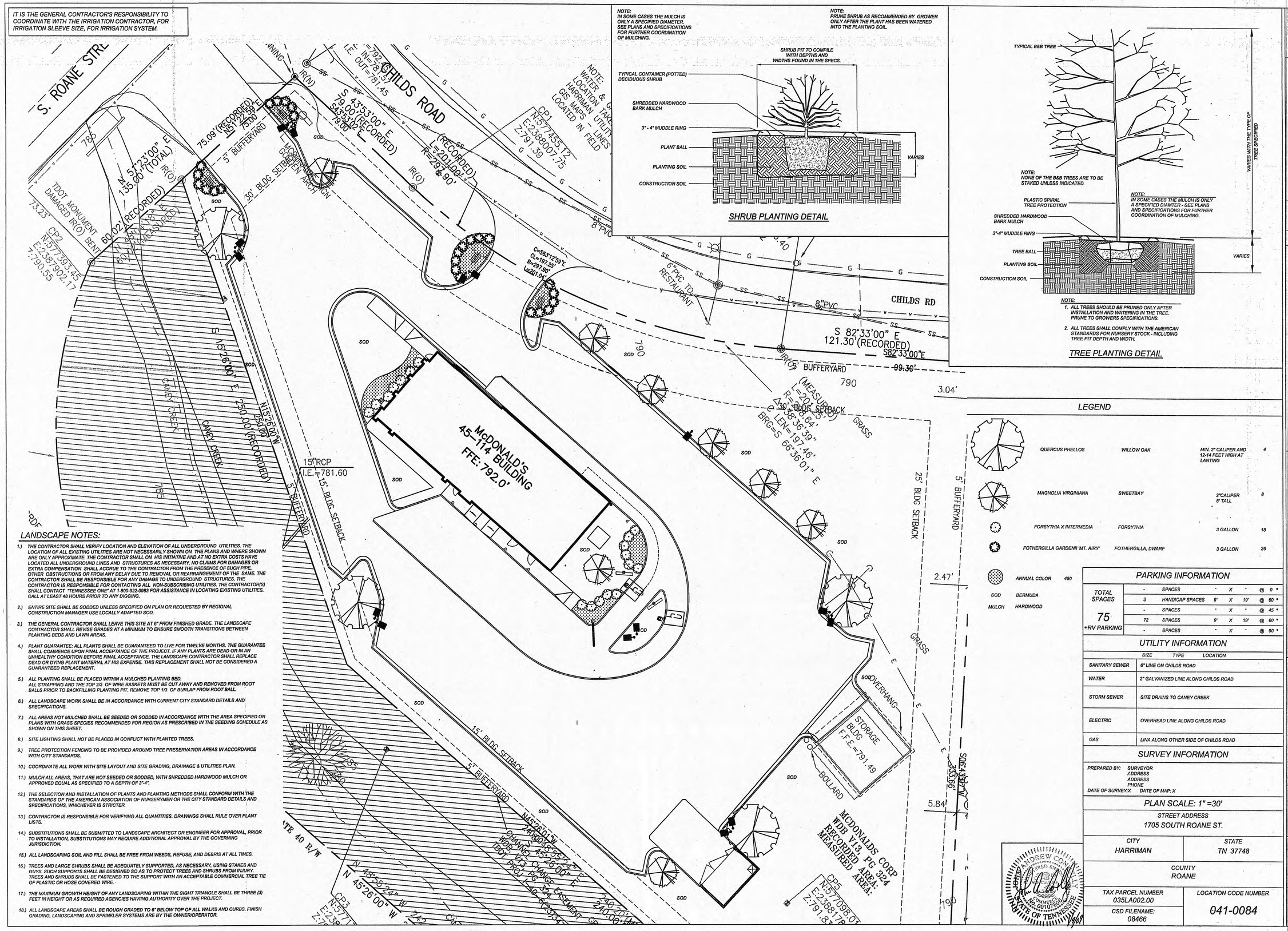
CO-SIGN SIGNATURES

AREA CONSTRUCTION MGR.		
CONTRACTOR		

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

C-12
DEMOLITION PLAN

IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE IRRIGATION CONTRACTOR, FOR IRRIGATION SLEEVE SIZE, FOR IRRIGATION SYSTEM.



NOTE:
IN SOME CASES THE MULCH IS ONLY A SPECIFIED DIAMETER. SEE PLANS AND SPECIFICATIONS FOR FURTHER COORDINATION OF MULCHING.

NOTE:
PRUNE SHRUB AS RECOMMENDED BY GROWER ONLY AFTER THE PLANT HAS BEEN WATERED INTO THE PLANTING SOIL.

SHRUB PLANTING DETAIL

NOTE:
1. ALL TREES SHOULD BE PRUNED ONLY AFTER INSTALLATION AND WATERING IN THE TREE. PRUNE TO GROWERS SPECIFICATIONS.
2. ALL TREES SHALL COMPLY WITH THE AMERICAN STANDARDS FOR NURSERY STOCK - INCLUDING TREE PIT DEPTH AND WIDTH.

TREE PLANTING DETAIL

LANDSCAPE NOTES:

1.) THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. THE CONTRACTOR(S) SHALL CONTACT "TENNESSEE ONE" AT 1-800-922-0983 FOR ASSISTANCE IN LOCATING EXISTING UTILITIES. CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.

2.) ENTIRE SITE SHALL BE SODDED UNLESS SPECIFIED ON PLAN OR REQUESTED BY REGIONAL CONSTRUCTION MANAGER USE LOCALLY ADAPTED SOD.

3.) THE GENERAL CONTRACTOR SHALL LEAVE THIS SITE AT 6" FROM FINISHED GRADE. THE LANDSCAPE CONTRACTOR SHALL REVISE GRADES AT A MINIMUM TO ENSURE SMOOTH TRANSITIONS BETWEEN PLANTING BEDS AND LAWN AREAS.

4.) PLANT GUARANTEE: ALL PLANTS SHALL BE GUARANTEED TO LIVE FOR TWELVE MONTHS. THE GUARANTEE SHALL COMMENCE UPON FINAL ACCEPTANCE OF THE PROJECT. IF ANY PLANTS ARE DEAD OR IN AN UNHEALTHY CONDITION BEFORE FINAL ACCEPTANCE, THE LANDSCAPE CONTRACTOR SHALL REPLACE DEAD OR DYING PLANT MATERIAL AT HIS EXPENSE. THIS REPLACEMENT SHALL NOT BE CONSIDERED A GUARANTEED REPLACEMENT.

5.) ALL PLANTING SHALL BE PLACED WITHIN A MULCHED PLANTING BED.
ALL STRAPPING AND THE TOP 2/3 OF WIRE BASKETS MUST BE CUT AWAY AND REMOVED FROM ROOT BALLS PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF BURLAP FROM ROOT BALL.

6.) ALL LANDSCAPE WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY STANDARD DETAILS AND SPECIFICATIONS.

7.) ALL AREAS NOT MULCHED SHALL BE SEEDED OR SODDED IN ACCORDANCE WITH THE AREA SPECIFIED ON PLANS WITH GRASS SPECIES RECOMMENDED FOR REGION AS PRESCRIBED IN THE SEEDING SCHEDULE AS SHOWN ON THIS SHEET.

8.) SITE LIGHTING SHALL NOT BE PLACED IN CONFLICT WITH PLANTED TREES.

9.) TREE PROTECTION FENCING TO BE PROVIDED AROUND TREE PRESERVATION AREAS IN ACCORDANCE WITH CITY STANDARDS.

10.) COORDINATE ALL WORK WITH SITE LAYOUT AND SITE GRADING, DRAINAGE & UTILITIES PLAN.

11.) MULCH ALL AREAS, THAT ARE NOT SEEDED OR SODDED, WITH SHREDDED HARDWOOD MULCH OR APPROVED EQUAL AS SPECIFIED TO A DEPTH OF 3"-4".

12.) THE SELECTION AND INSTALLATION OF PLANTS AND PLANTING METHODS SHALL CONFORM WITH THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN OR THE CITY STANDARD DETAILS AND SPECIFICATIONS, WHICHEVER IS STRICTER.

13.) CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES. DRAWINGS SHALL RULE OVER PLANT LISTS.

14.) SUBSTITUTIONS SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT OR ENGINEER FOR APPROVAL, PRIOR TO INSTALLATION, SUBSTITUTIONS MAY REQUIRE ADDITIONAL APPROVAL BY THE GOVERNING JURISDICTION.

15.) ALL LANDSCAPING SOIL AND FILL SHALL BE FREE FROM WEEDS, REFUSE, AND DEBRIS AT ALL TIMES.

16.) TREES AND LARGE SHRUBS SHALL BE ADEQUATELY SUPPORTED, AS NECESSARY, USING STAKES AND GUYS. SUCH SUPPORTS SHALL BE DESIGNED SO AS TO PROTECT TREES AND SHRUBS FROM INJURY. TREES AND SHRUBS SHALL BE FASTENED TO THE SUPPORT WITH AN ACCEPTABLE COMMERCIAL TREE TIE OF PLASTIC OR HOSE COVERED WIRE.

17.) THE MAXIMUM GROWTH HEIGHT OF ANY LANDSCAPING WITHIN THE SIGHT TRIANGLE SHALL BE THREE (3) FEET IN HEIGHT OR AS REQUIRED AGENCIES HAVING AUTHORITY OVER THE PROJECT.

18.) ALL LANDSCAPE AREAS SHALL BE ROUGH GRADED TO 6" BELOW TOP OF ALL WALKS AND CURBS. FINISH GRADING, LANDSCAPING AND SPRINKLER SYSTEMS ARE BY THE OWNER/OPERATOR.

LEGEND

QUERCUS PHELLOS	WILLOW OAK	MIN. 2" CALIPER AND 12-14 FEET HIGH AT LANTING	4
MAGNOLIA VIRGINIANA	SWEETBAY	2"CALIPER 8' TALL	8
FORSYTHIA X INTERMEDIA	FORSYTHIA	3 GALLON	18
FOTHERGILLA GARDENII 'MT. AIRY'	FOTHERGILLA, DWARF	3 GALLON	26
ANNUAL COLOR			450
SOD	BERMUDA		
MULCH	HARDWOOD		

PARKING INFORMATION

TOTAL SPACES							
75 +RV PARKING	-	SPACES	-	X	-	@	0 °
	3	HANDICAP SPACES	9'	X	19'	@	60 °
	-	SPACES	-	X	-	@	45 °
	72	SPACES	9'	X	19'	@	60 °
	-	SPACES	-	X	-	@	90 °

UTILITY INFORMATION

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WATER	2" GALVANIZED LINE ALONG CHILDS ROAD		
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PREPARED BY: SURVEYOR
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ADDRESS
PHONE
DATE OF SURVEY: X DATE OF MAP: X

PLAN SCALE: 1" =30'

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REGIONAL DEV. DIRECTOR		CONTRACTOR
REGIONAL CONSTRUCTION MGR.		
REGIONAL REAL ESTATE MGR.		

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

L-1
LANDSCAPE PLAN

NOTES:

1. THE FOOTCANDLE LEVELS AS SHOWN ARE BASED ON THE FOLLOWING CRITERIA. ANY SUBSTITUTIONS IN SPECIFIED FIXTURES OR CHANGES TO LAYOUT WILL AFFECT LIGHTING LEVELS SHOWN AND WILL NOT BE THE RESPONSIBILITY OF SECURITY LIGHTING.
2. THE CONTRIBUTION OF THE METAL HALIDE SOFFIT / BUILDING LIGHTING IS NOT REFLECTED ON THIS DRAWING.
3. DISTANCE BETWEEN READINGS = 10'
4. FINAL ADJUSTMENTS TO AIMING ANGLE/DIRECTION OF FIXTURES MAY BE REQUIRED TO ELIMINATE LIGHT TRESPASS OR GLARE ONTO ADJOINING PROPERTIES OR ROADWAYS.
5. FOOTCANDLE LEVELS SHOWN ARE MAINTAINED. MAINTENANCE FACTOR USED ON THIS DRAWING IS .75

** – SPECIFY COLOR

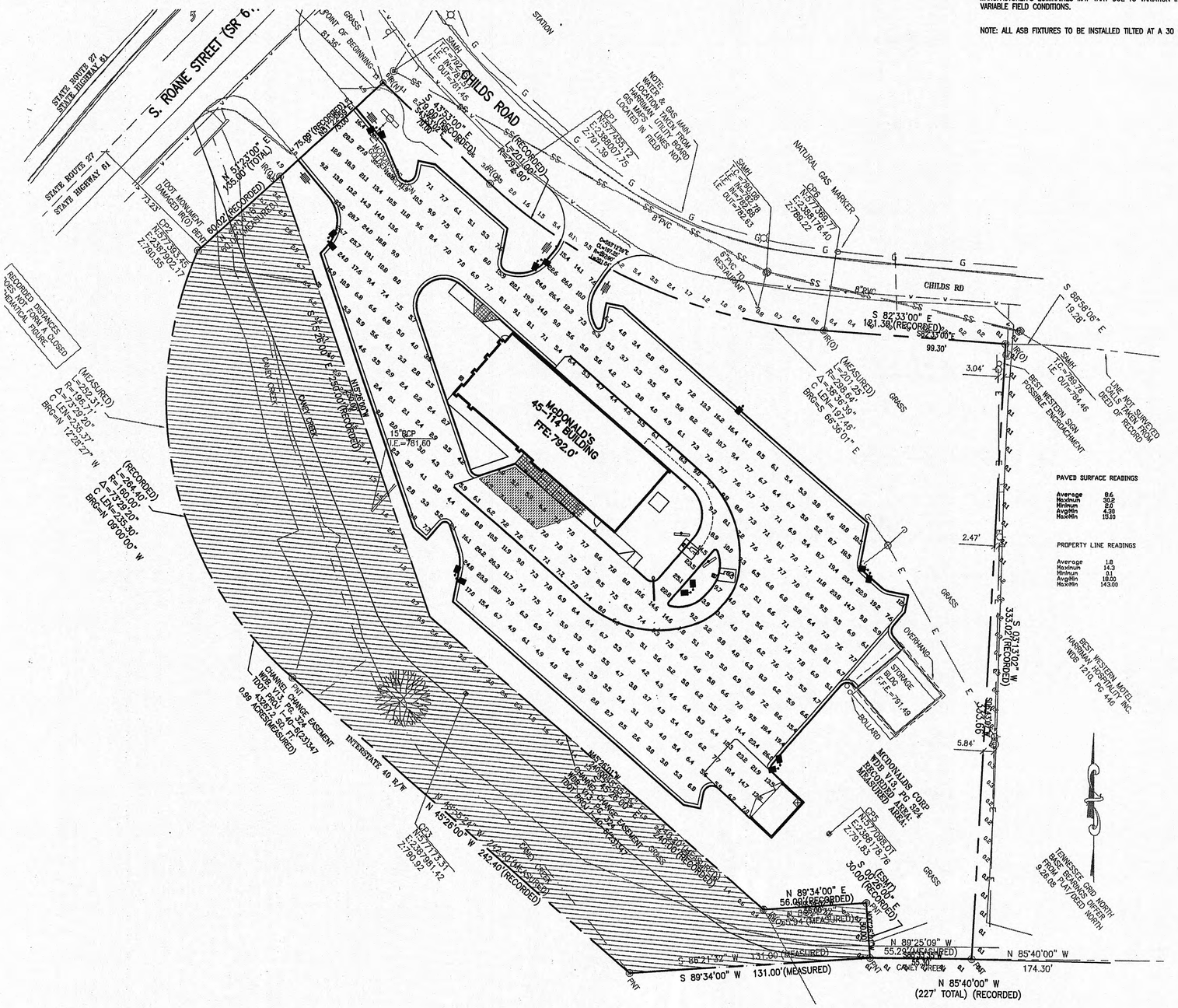
NOTE: ALL POLES ARE DRILLED

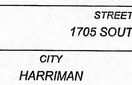
FIXTURE TYPE:	SYMBOL	QUANTITY	CONFIG	QUANTITY	MOUNTING HEIGHT	LUMENS	POLE TYPE: *	QUANTITY
ASB-1000MH-**-MT	■	12	TT-2A	4	24'	110,000	SSP-22-**-TT (5")	8

* POLES SPECIFIED ON THIS DRAWING ARE RATED FOR AN 80 MPH WIND LOAD. FOR AREAS WHERE THE WIND LOAD CRITERIA EXCEEDS 80 MPH, PLEASE CONSULT FACTORY FOR PROPER POLE SPECIFICATION AND MODEL NUMBER.

THIS LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALULATED FROM LABORATORY DATA, TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRES MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.

NOTE: ALL ASB FIXTURES TO BE INSTALLED TILTED AT A 30 DEGREE ANGLE. UNLESS OTHERWISE SPECIFIED.





POINT-BY-POINT FOOTCANDLE PLOT FOR
- McDONALD'S -
BREVARD, NC

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
TOLERANCES NOT OTHERWISE SPECIFIED
.XX ± .015
DECIMAL .XXX ± .005 FRACTIONAL ANGULAR
DRAWING NUMBER
1PCP20872

PARKING INFORMATION

TOTAL SPACES 75 +RV PARKING	-	SPACES	-	X	-	@ 0 °
	3	HANDICAP SPACES	9'	X	19'	@ 60 °
	-	SPACES	-	X	-	@ 45 °
	72	SPACES	9'	X	19'	@ 60 °
	-	SPACES	-	X	-	@ 90 °

UTILITY INFORMATION

	SIZE TYPE LOCATION
SANITARY SEWER	6" LINE ON CHILDS ROAD
WATER	2" GALVANIZED LINE ALONG CHILDS ROAD
STORM SEWER	SITE DRAINS TO CANEY CREEK
ELECTRIC	OVERHEAD LINE ALONG CHILDS ROAD
GAS	LINA ALONG OTHER SIDE OF CHILDS ROAD

SURVEY INFORMATION

PREPARED BY: SURVEYOR
ADDRESS
ADDRESS
PHONE
DATE OF SURVEY: X DATE OF MAP: X

PLAN SCALE: 1" =30'

STREET ADDRESS
1705 SOUTH ROANE ST.

CITY	STATE
HARRIMAN	TN 37748

COUNTY
ROANE

TAX PARCEL NUMBER	LOCATION CODE NUMBER
035LA002.00	041-0084
CSD FILENAME: 08466	

PLAN APPROVAL
SIGNATURE (2 REQUIRED) DATE
REGIONAL MGR.
REGIONAL DEV. DIRECTOR
REGIONAL CONSTRUCTION MGR.
REGIONAL REAL ESTATE MGR.
CO-SIGN SIGNATURES
AREA CONSTRUCTION MGR.
CONTRACTOR

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

L-2
LIGHTING PLAN

REV	DATE	DESCRIPTION	BY	ISSUER#
A	01-06-09	ISSUE FOR PERMIT	YAG	

BRITT PETERS AND ASSOCIATES INC.
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(864) 271-8869
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www.brittpeters.com

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RALEIGH REGION
4601 SIX FORKS ROAD - SUITE 203 - RALEIGH, N.C. 27609

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING ALL WORK DURING CONSTRUCTION.
2. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL PRESSURE OF 3000 PSF.
3. CONCRETE SHALL HAVE A MINIMUM ULTIMATE 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI, EXCEPT SLAB ON GRADE SHALL BE 4000 PSI WITH 4" MAXIMUM SLUMP.
4. ALL STRUCTURAL STEEL SHALL BE ASTM A36.
5. ALL BOLTS SHALL BE ASTM A325, EXCEPT ANCHOR BOLTS MAY BE ASTM A307.
6. ALL WELDING SHALL BE DONE ACCORDING TO AMERICAN WELDING SOCIETY (A.W.S.) SPECIFICATIONS BY A.W.S. CERTIFIED WELDERS.
7. AIR ENTRAINING AGENTS SHALL BE USED TO PRODUCE 3% TO 6% AIR BY VOLUME IN ALL CONCRETE.
8. WOOD STRENGTH Fb = 1,200 PSI, E = 1,600 KSI
9. MASONRY (CMU) STRENGTH (f'm) 1350 PSI
10. GROUT SHALL BE NON-SHRINK WITH A 28-DAY STRENGTH OF 4000 PSI. EXPOSED GROUT SHALL BE NON-STAINING.
11. ALL BAR REINFORCEMENT STEEL SHALL BE ASTM A615 GRADE 60, EXCEPT GRADE 40 MAY BE USED FOR TIES AND STIRRUPS.
12. WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM C-185.
13. TYPE "S" MORTAR SHALL BE USED U.N.O.
14. DETAILS WHICH ARE NOT SHOWN SHALL BE ACCORDING TO SPECIFICATION AND CODE OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, THE AMERICAN CONCRETE INSTITUTE, THE BRICK INSTITUTE OF AMERICA, THE STANDARD BUILDING CODE, AND ANY LOCAL ORDINANCES.
15. REINFORCED MASONRY GROUT (RMG) FOR FILLING CELLS IN CONCRETE BLOCK, SHALL CONFORM TO STANDARD SPECIFICATIONS FOR GROUT FOR REINFORCED MASONRY, ASTM C-476, WITH A SLUMP OF BETWEEN 9" AND 11", IT SHALL BE PLACED IN LIFTS OF NOT MORE THAN 4'-0", AND SHALL BE PLACED NO LATER THAN 2 1/2 HOURS AFTER WATER HAS BEEN FIRST ADDED.
16. LOAD BEARING CONCRETE MASONRY SHALL CONFORM TO ASTM C90 GRADE N2 FOR EXTERIOR WALLS AND WALLS BELOW GRADE.
17. THESE DRAWINGS SHALL NOT BE SCALED.
18. EXISTING INFORMATION PROVIDED BY McDONALD'S PROJECT MANAGER.
19. EXTERIOR WALLS AND DOOR OF THE STORAGE BUILDING SHALL BE PAINTED TO MATCH THE BUILDING. INTERIOR WALLS OF THE STORAGE BUILDING SHALL BE PAINTED. VERIFY COLOR WITH McDONALD'S PROJECT MANAGER.
20. THE STORAGE BUILDING'S CONCRETE FLOOR SHALL BE SEALED.
21. ALL WORK TO BE COMPLETED ACCORDING TO ALL APPLICABLE CODES AND ORDINANCES.
22. CONTRACTOR TO VERIFY EXISTING & NEW CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
23. ALL MATERIALS AND ITEMS TO BE INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS AND SHALL MATCH EXISTING MATERIALS AND COLORS.
24. CONTRACTOR TO USE CIRCUIT ALLOTTED FOR STORAGE BUILDING AND RE-USE UNDERGROUND WIRING CONDUIT IF DEEMED APPROPRIATE.
25. SEE McDONALD'S DRAWINGS FOR FURTHER INFORMATION.
26. A 1/2" GYPSUM BOARD CEILING SHALL BE INSTALLED IN THE STORAGE BUILDING. FINISH CEILING AND PAINT WHITE.
27. SEE THE LATEST EDITION OF THE "PROJECT MANUAL FOR THE McDONALD'S STANDARD BUILDING PROGRAM" FOR FURTHER INFORMATION AND SPECIFICATIONS.

BUILDING DATA: STORAGE BUILDING

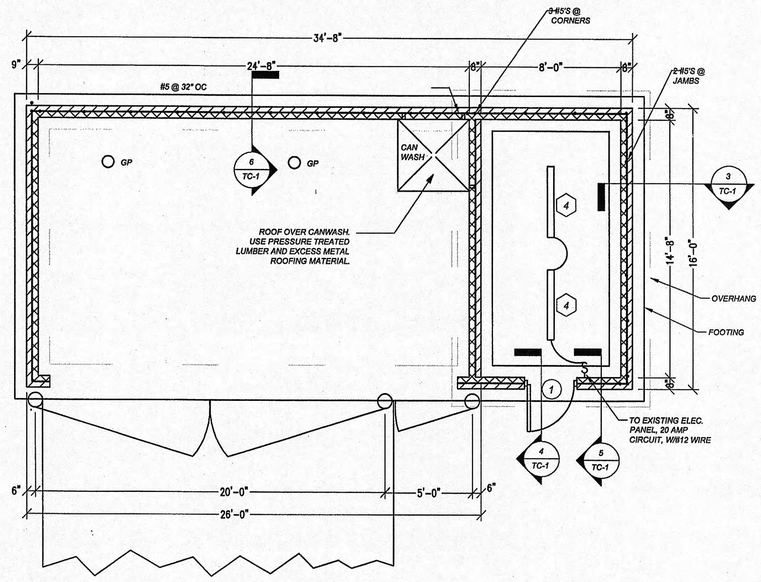
236 sq. ft.

OCCUPANCY:	S-1, STORAGE (DRY GOODS IN CARDBOARD BOXES) UNCONDITIONED
CONSTRUCTION TYPE:	VI (UNPROTECTED/UNSPRINKLED)
STORAGE BUILDING AREA:	191 SQ. FT. (6,000 SQ. FT. ALLOWED WITHOUT AREA MODIFICATION)
STORAGE BUILDING STORIES:	1 STORY (1 STORY ALLOWED)
STORAGE BUILDING HEIGHT:	< 9'-0"
EXTERIOR WALLS:	8" SPLIT FACE LIGHTWEIGHT CONCRETE BLOCK (LOAD BEARING) ACI 216, CHAPTER 3: EQUIVALENT THICKNESS IS EQUAL TO 1 HOUR. PER TABLE 600, WALLS MORE THAN 3' CLEAR FROM PROPERTY LINE = 0 HOUR RATING

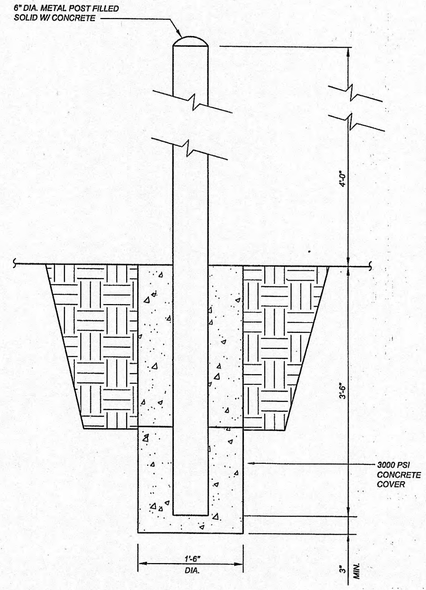
LIFE SAFETY SYSTEM:

SPRINKLER:	NO
EMERGENCY LIGHTING AND EXIT SIGNS:	NO
FIRE ALARM AND SMOKE DETECTION SYSTEMS:	NO
PANIC HARDWARE:	NO

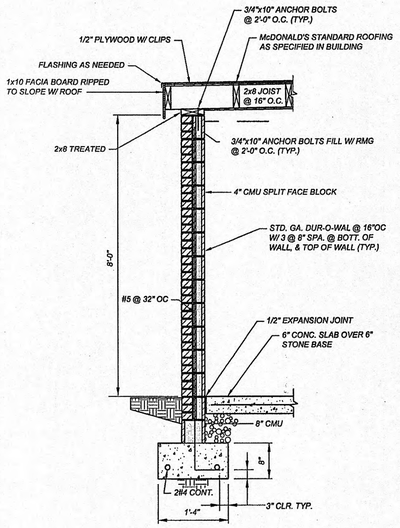
MARK	DESCRIPTION
4	4" STRIP FLUORESCENT 1-40 WATT EXPANDED METAL GUARD (2REQ.)
1	2'-8" x 7'-0" x 1 3/4" 16GA. HOLLOW METAL DOOR & FRAME 1 1/2 PAIR BUCKS LOCKSET



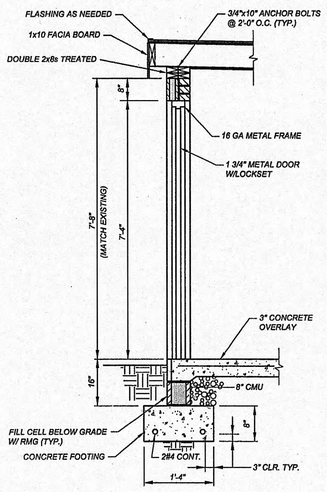
1 TRASH CORRAL ENCLOSURE
1/4" = 1'-0"



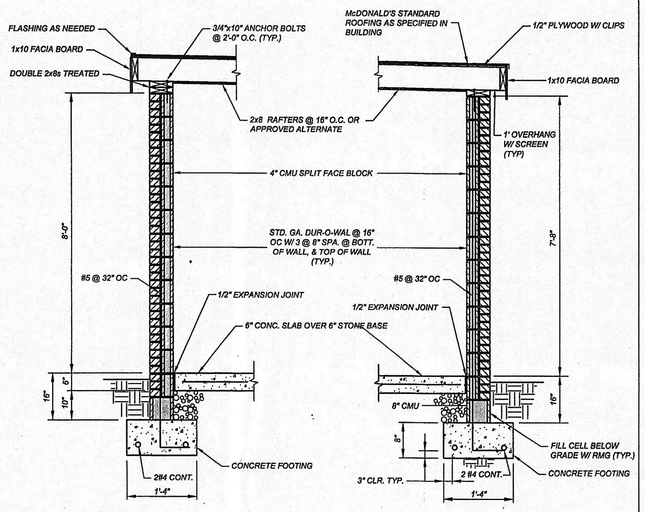
2 GUARD POST DETAIL
1" = 1'-0"



3 EXTERIOR WALL 1
1/2" = 1'-0"



4 DOOR SECTION
1/2" = 1'-0"



5 EXTERIOR WALL
1/2" = 1'-0"

6 EXTERIOR WALL
1/2" = 1'-0"

JOHN ANDREW CONNELLY — REGISTERED ENGINEER — COMMISSION NO. 001078 — STATE OF TENNESSEE — 1/9/08

STREET ADDRESS	1705 SOUTH ROANE ST.
CITY	HARRIMAN
STATE	TN 37748
COUNTY	ROANE
TAX PARCEL NUMBER	035LA002.00
LOCATION CODE NUMBER	041-0084
CSD FILENAME:	08466

REV	DATE	DESCRIPTION	BY	ISSUEREF

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ADDRESS: 4931 SIX FORKS ROAD - SUITE 200 - RALEIGH, N.C. 27609

PLAN APPROVAL

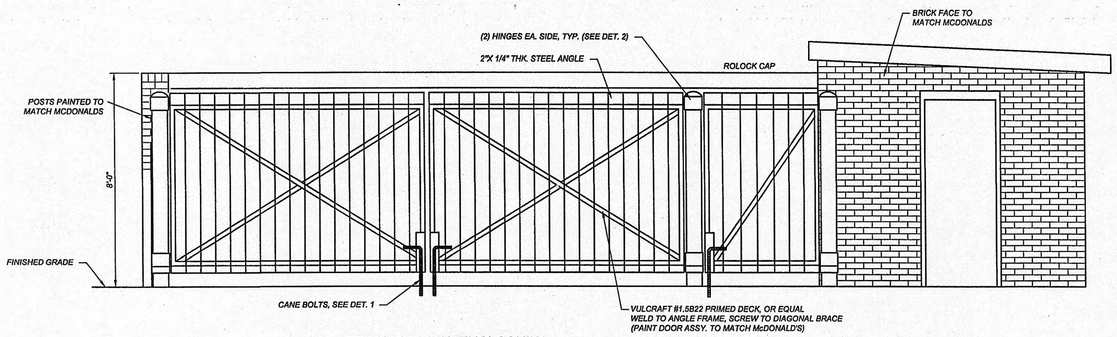
SIGNATURE (2 REQUIRED)	DATE
REGIONAL MGR.	
REGIONAL DEV. DIRECTOR	
REGIONAL CONSTRUCTION MGR.	
REGIONAL REAL ESTATE MGR.	

CO-SIGN SIGNATURES

AREA CONSTRUCTION MGR.	
CONTRACTOR	

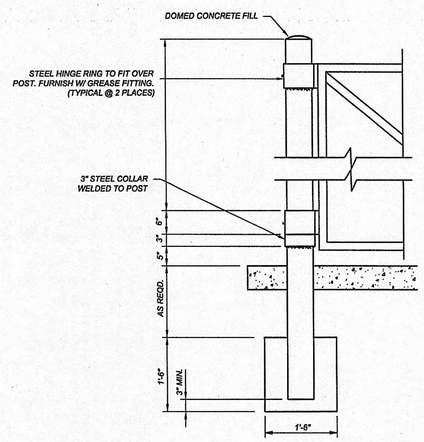
STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

TC-1
TRASH CORRAL / STORAGE BUILDING



TRASH CORRAL ENCLOSURE

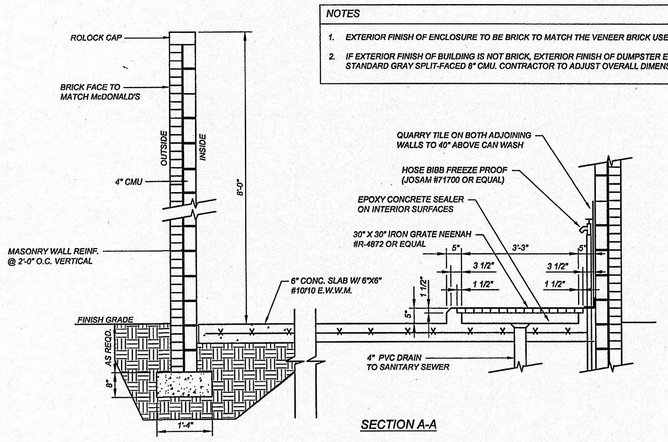
FRONT ELEVATION



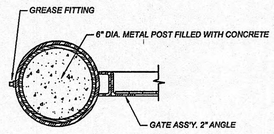
HINGE POST

NOTES

1. EXTERIOR FINISH OF ENCLOSURE TO BE BRICK TO MATCH THE VENEER BRICK USED ON THE BUILDING.
2. IF EXTERIOR FINISH OF BUILDING IS NOT BRICK, EXTERIOR FINISH OF DUMPSTER ENCLOSURE IS TO BE STANDARD GRAY SPLIT-FACED 8" CMU. CONTRACTOR TO ADJUST OVERALL DIMENSIONS TO SUIT.

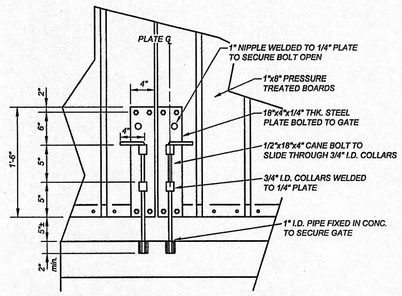


SECTION A-A



HINGE - PLAN VIEW

DUMPSTER ENCLOSURE



CANE BOLT

REV	DATE	DESCRIPTION	BY	ISSUE/REF
A	01-06-09	ISSUE FOR PERMIT	YAG	

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CONTRACTOR	

STREET ADDRESS	
1705 SOUTH ROANE ST.	
CITY: HARRIMAN	STATE: TN 37748
COUNTY: ROANE	
TAX PARCEL NUMBER: 035LA002.00	LOCATION CODE NUMBER: 041-0084
CSD FILENAME: 08466	

JOHN ANDREW CONNELLY
REGISTERED ENGINEER
No. 00107606
STATE OF TENNESSEE
1/9/09

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

TC-2
TRASH CORRAL DETAILS

2008 45114+5'R M/S

ENERGY CODE SUMMARY:

THERMAL ENVELOPE

METHOD OF COMPLIANCE:

PRESCRIPTIVE X PERFORMANCE ___ ENERGY COST BUDGET ___

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: SINGLE-PLY BUILT-UP ROOF ON RIGID INSULATION OVER METAL ROOF DECK

U-VALUE OF TOTAL ASSEMBLY: 0.03 (BTU/HR.-Ft²-°F)
R-VALUE OF INSULATION: R-30
SKYLIGHTS IN EACH ASSEMBLY: NONE
U-VALUE OF SKYLIGHT
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY:

EXTERIOR WALLS (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: 4" BRICK VENEER W/METAL TIES @ 16" O.C. VERTICALLY AND 24" O.C. HORIZONTALLY. 8" MASONRY BLOCK - FILL ALL OPEN MASONRY CORES WITH INSULATION.
U-VALUE OF TOTAL ASSEMBLY: 0.093 (BTU/HR.-ft²-°F)
R-VALUE OF INSULATION: R-19
OPENINGS (WINDOW OR DOORS WITH GLAZING):
U-VALUE OF ASSEMBLY: 0.56 (BTU/HR.-Ft²-°F)
SHADING COEFFICIENT: 0.82
PROJECTION FACTOR:
LOW E REQUIRED, IF APPLICABLE: N/A
DOOR R-VALUES: 1.76

WALLS ADJACENT TO UNCONDITIONED SPACE (EACH ASSEMBLY): NONE
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:
OPENINGS (WINDOWS OR DOORS WITH GLAZING):
U-VALUE OF ASSEMBLY:
LOW E REQUIRED, IF APPLICABLE:
DOOR R-VALUES:

WALLS BELOW GRADE (EACH ASSEMBLY): NONE
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:

FLOOR OVER UNCONDITIONED SPACE (EACH ASSEMBLY): NONE
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:

FLOORS SLAB ON GRADE
DESCRIPTION OF ASSEMBLY: 5" CONCRETE FLOOR SLAB ON 4" COMPACTED STONE BASE
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:
HORIZONTAL/ VERTICAL REQUIREMENT:
SLAB HEATED: NO

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

PRESCRIPTIVE X ENERGY COST BUDGET ___

THERMAL ZONE 8

EXTERIOR DESIGN CONDITIONS:		INTERIOR DESIGN CONDITIONS:	
WINTER DRY BULB:	18 F	WINTER DRY BULB:	75 F
SUMMER DRY BULB:	95 F	SUMMER DRY BULB:	75 F
		RELATIVE HUMIDITY:	50%

BUILDING HEAT LOAD: 310,799 BTUH
BUILDING COOLING LOAD: 387,240 BTUH

MECHANICAL SPACING CONDITIONING SYSTEM
UNITARY

DESCRIPTION OF UNIT:	3.5 TON	15 TON	15 TON	5.0 TON
COOLING EFFICIENCY:	11.5 EER	10.8 EER	10.8 EER	11.5 EER
HEAT OUTPUT OF UNIT:	100 MBH	240 MBH	240 MBH	100 MBH
COOLING OUTPUT OF UNIT:	45.5 MBH	174 MBH	174 MBH	59.4 MBH

BOILER: NONE
CHILLER: NONE

LIST EQUIPMENT EFFICIENCIES: WATER HEATER: COMPLIES WITH ASHRAE 90.1b-1992

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS): NONE ≥ 1 H.P.

ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

PRESCRIPTIVE ___ PERFORMANCE X ENERGY COST BUDGET ___

LIGHTING SCHEDULE

	F2	F7	F12	F13	F26	MP1	P1
LAMP TYPE REQUIRED IN FIXTURE:	FLOUR.	FLOUR.	FLOUR.	FLOUR.	INC.	INC.	INC.
NUMBER OF LAMPS IN FIXTURE:	3	2	2	2	1	1	1
BALLAST TYPE USED IN FIXTURE:	ELECT.	ELECT.	ELECT.	ELECT.	–	–	–
NUMBER OF BALLASTS IN FIXTURE:	1	1	1	1	–	–	–
TOTAL WATTAGE PER FIXTURE:	76	51	43	43	60	75	60

TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: 5952/5975

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS): NONE

SYMBOL LEGEND:

6 / A4 — SECTION TAG	4 — DOOR TAG
5 / A6 — DETAIL TAG	DINING ROOM / 103 — ROOM NAME & NUMBER
T/ SLAB / ELEV. 0'-0" — ELEVATION TAG	A — PARTITION TAG
	6 / A4 DETAIL 1 1/2"=1'-0" DETAIL NUMBER — DRAWING TITLE

K:\DIV\EAST\ - RAL\041-0084-00-0 HARRIMAN\45114MS_CV.DWG 01-22-2009 15:19

APPENDIX B - BUILDING CODE SUMMARY:

NAME OF PROJECT: McDONALD'S RESTAURANT (STATE SITE CODE 041-0084)
ADDRESS: 1705 South Roane Street, Harriman, TN 37748
PROPOSED USE: RESTAURANT
CONSTRUCTION CONTACT: Fred Cox (919) 876 9716

DESIGNER	NAME	ADDRESS	LICENSE #	TELEPHONE #
ARCHITECTURAL	Michael Ebanks	2111 McDONALD'S DR., OAK BROOK, IL 60523	00102921	(630) 623-6207
ELECTRICAL	Mike Slikas	2111 McDONALD'S DR., OAK BROOK, IL 60523	00110900	(630) 623-2389
MECHANICAL/PLUMBING	Jason Greenberg	2111 McDONALD'S DR., OAK BROOK, IL 60523	00110900	(630) 623-5767
STRUCTURAL	Joseph Paul Illes, Jr.	1979 N. MILL ST., STE 112, NAPERVILLE, IL 60563	00108652	(630) 577-9100

YEAR EDITION OF CODE: 2003 International Building Code [X] NEW CONSTRUCTION

BUILDING DATA:

CONSTRUCTION TYPE: [ ] I-A [ ] I-B [ ] II-A [ ] II-B [ ] III-A [ ] III-B [ ] IV [ ] V-A [X] V-B
MIXED CONSTRUCTION: YES (NO) TYPE N/A
SPRINKLERS: YES (NO) NFPA 13 ___ NFPA 13R ___ NFPA 13D ___
STANDPIPES: YES (NO) FIRE DISTRICT: YES (NO) MEZZANINE: YES (NO) HIGH RISE: YES (NO)
GROSS BUILDING AREA: 1ST FLOOR 5,486 S.F. BUILDING HEIGHT: 21'-4" FEET 1 NUMBER OF STORIES

ALLOWABLE AREA

PRIMARY OCCUPANCY: [X] ASSEMBLY A-1 (A-2) A-3 A-4 [ ] BUSINESS [ ] EDUCATIONAL [ ] FACTORY-INDUSTRIAL [ ] HIGH-HAZARD [ ] INSTITUTIONAL [ ] MERCANTILE [ ] RESIDENTIAL [ ] STORAGE [ ] UTILITY AND MISCELLANEOUS

MIXED OCCUPANCY: YES (NO) SEPARATION: N/A HR. EXCEPTION: ____

[ ] NON-SEPARATED MIXED OCCUPANCY (303.1 EXCEPTION)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

[ ] SEPARATED MIXED OCCUPANCY (303.1 /303.2) - SEE BELOW FOR AREA CALCULATIONS
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} + \frac{\quad}{\quad} + \frac{\quad}{\quad} = \quad \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 AREA	(C) AREA FOR OPEN SPACE INCREASE	(D) AREA FOR SPRINKLER INCREASE	(C) ALLOWABLE AREA OR UNLIMITED	(F) MAXIMUM BUILDING AREA
1	RESTAURANT	5,486 S.F.	6,000 S.F.			6,000 S.F.	6,000 S.F.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
TYPE OF CONSTRUCTION	TYPE VB		TYPE VB	
BUILDING HEIGHT IN FEET	FEET 40'	FEET = 1X20' = N/A	21'-4"	
BUILDING HEIGHT IN STORIES	STORIES 1	STORIES +1 = N/A	1 STORY	

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQUIRED	RATING PROVIDED W/ REDUCTION*	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES	N/A						
BEARING WALLS EXTERIOR / INTERIOR	N/A						
NON-BEARING WALLS AND PARTITIONS EXTERIOR / INTERIOR	N/A						
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	N/A						
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	N/A						
SHAFTS - EXIT	N/A						
CORRIDOR SEPARATION	N/A						
OCCUPANCY SEPARATION	N/A						
PARTY/FIRE WALL SEPARATION	N/A						
SMOKE BARRIER SEPARATION	N/A						

OCCUPANCY ALLOWANCE:

INTERNATIONAL BUILDING CODE 2006

TABLE 1004.1.1
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANTS
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS	1005 SF	3
ASSEMBLY WITH FIXED SEATS	SEE PLAN	–	125
ASSEMBLY W/OUT FIXED SEATS STANDING SPACE	5 NET	187 SF	34
BUSINESS AREAS	100 GROSS	137 SF	2
KITCHENS, COMMERCIAL	200 GROSS	1137 SF	6
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–
TOTAL OCCUPANCY ALLOWANCE			170

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING AND EXIT SIGNS: (YES) NO
FIRE ALARM AND SMOKE DETECTION SYSTEMS: (YES) NO
PANIC HARDWARE: (YES) NO
SMOKE DETECTORS IN HVAC RETURNS: (YES) NO

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS REQ'D	MINIMUM NUMBER OF EXITS SHOWN ON PLANS	TRAVEL DISTANCE ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1)	TRAVEL DISTANCE ALLOWABLE TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT MEANS OF EGRESS (SECTION 1015.2) REQUIRED DISTANCE BETWEEN EXIT DOORS	ARRANGEMENT MEANS OF EGRESS (SECTION 1015.2) ACTUAL DISTANCE SHOWN ON PLANS
1ST FLOOR	2	4	200'	33'	≥ 32'	65'

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION	(a) AREA IN SQ. FT.	(b) AREA PER OCCUPANT (TABLE 1004.1.1)	(c) EGRESS WIDTH PER OCCUPANT (TABLE 1005.1) STAIR	(c) EGRESS WIDTH PER OCCUPANT (TABLE 1005.1) LEVEL	EXIT WIDTH (in.) REQUIRED WIDTH (SECTION 1005.1) (a/b) x c STAIR	EXIT WIDTH (in.) REQUIRED WIDTH (SECTION 1005.1) (a/b) x c LEVEL	EXIT WIDTH (in.) ACTUAL WIDTH SHOWN ON PLANS STAIR	EXIT WIDTH (in.) ACTUAL WIDTH SHOWN ON PLANS LEVEL
DINING	2,386	125 FIXED SEATS	N/A	.15	N/A	20"	N/A	72"
KITCHEN/SUPPORT	2,090	200	N/A	.15	N/A	2"	N/A	84"
FREEZER/COOLER	575	300	N/A	.15	N/A	2"	N/A	48"
RESTROOMS	435	NON-OCCUPANT	N/A	–	N/A	–	N/A	–

DESIGN LOADS:

IMPORTANCE FACTORS: WIND (Iw) 1.0 SEISMIC (I) E 1.0
SNOW LOAD: 10 PSF. SNOW (Is) 1.0
LIVE LOADS: ROOF 20 PSF. FLOOR 100 PSF.
WIND LOAD: BASIC WIND SPEED 90 mph (ASCE-7-98) EXPOSURE CATEGORY B

SEISMIC DESIGN CATEGORY A COMPLIANCE WITH SECTION 1616.4 ONLY? YES (NO)

SEISMIC DESIGN CATEGORY B,C, AND D
PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
SEISMIC USE GROUP II
SPECTRAL RESPONSE ACCELERATION S_{DS} 0.44 S_{D1} 0.208
SITE CLASSIFICATION D
BASIC STRUCTURAL SYSTEM (CHECK ONE)
[X] BEARING WALL [ ] MOMENT FRAME
[ ] BUILDING FRAME [ ] INVERTED PENDULUM
ANALYSIS PROCEDURE: [ ] SIMPLIFIED [X] EQUIVALENT LATERAL FORCE
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? ___ NO
LATERAL DESIGN CONTROL: [X] EARTHQUAKE [ ] WIND

SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDE COPY OF TEST REPORT) 1,500 PSF.
PRESUMPTIVE BEARING CAPACITY ___ PSF.
PILE SIZE, TYPE, AND CAPACITY ___

PLUMBING FIXTURE REQUIREMENTS

OCCUPANCY	WATERCLOSETS MALE	WATERCLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
RESTAURANT*	1	2	1	1	1	N/A	N/A	N/A

REVISIONS

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A1.3 Roof Plan
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A2.0 Elevations
A2.1 Elevations
A4.0 Enlarged Restroom Plan & Details
A4.1 Enlarged Plan Details
A5.0 Wall Sections & Details
A5.1 Wall Sections & Details
A5.2 Wall Sections & Details
A5.3 Wall Sections & Details
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S1.1 Partial Foundation Plan
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S2.1 Partial Roof Framing Plan
S3.0 Sections & Details
S3.1 Sections & Details
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M3.0 Details & Schedules
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M4.0 3-Vat (UH-50) Hood Assembly
M4.1 Grill (UH-83) Hood Assembly
M4.2 Grill (UH-65) Hood Assembly

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P1.0 Water Piping Plan
P1.2 Waste & Storm Piping Plan
P1.4 Gas Piping Plan
P2.0 Rough-In Plumbing Plan & Schedules
P3.0 Domestic Supply Isometric Diagrams
P3.1 Waste & Vent Isometric Diagrams
P3.2 Fixture Schedule & Details

FIRE PROTECTION
DRAWINGS BY OTHERS

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E2.0 Lighting Plan & Schedule
E2.1 Lighting Plan & Schedule
E3.0 Electrical Schedule
E3.1 Electrical & Lighting Notes
E4.0 Wiring Details
E4.1 Lighting Controls
E4.2 Panel Boards & Single Line Diagrams

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

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL UNDER THE LAWS OF THE STATE OF TENNESSEE.

SIGNATURE

DATE 1/23/09

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael B. Ebanks
Registered Architect
2111 McDonald's Drive
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY RP
STD. REV. DATE JAN. 2008
REVIEWED BY MK/TW
DATE ISSUED 1/20/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

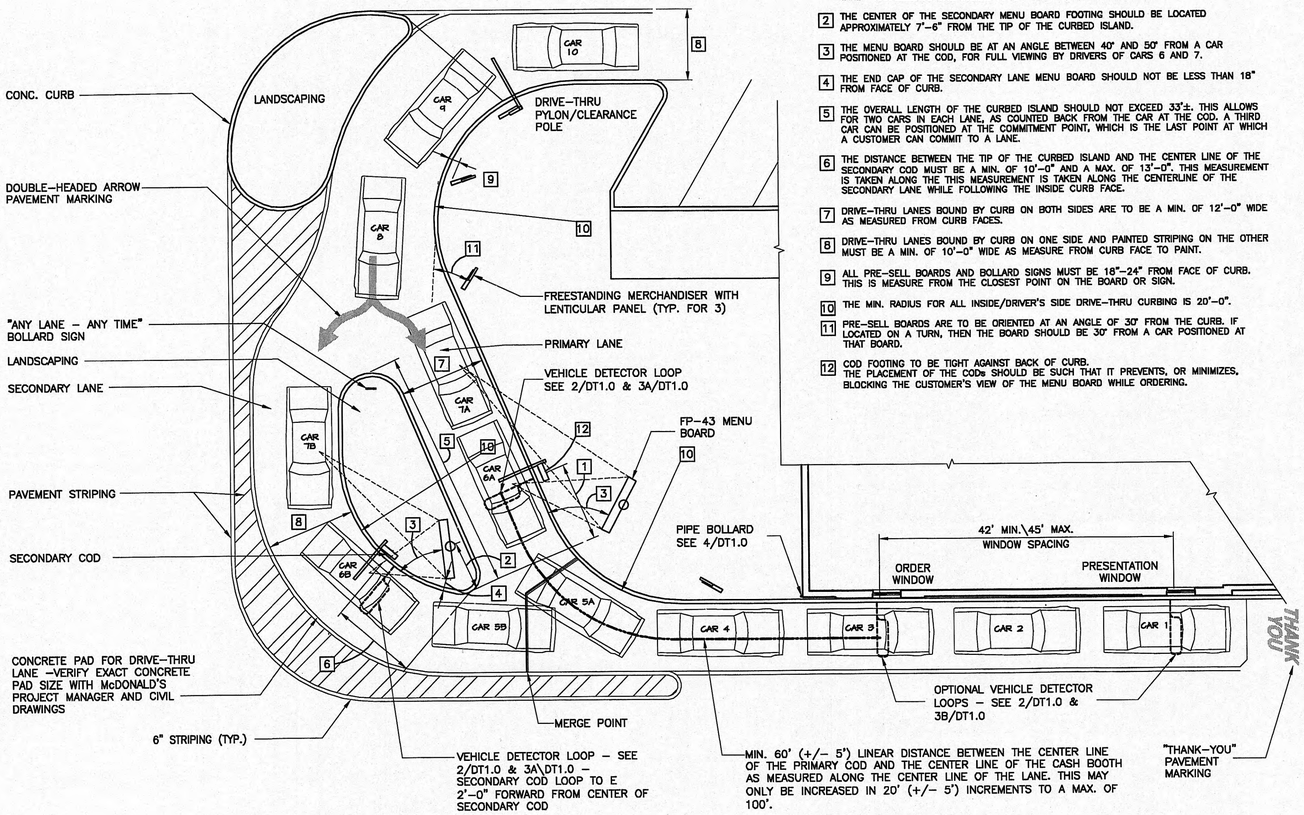
DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES

SITE ID 041-0084
SITE ADDRESS 1705 South Roane Street, Harriman, TN 37748

SHEET NO. 041-0084-00-0
CV
COVER

LEGEND

1. THE DISTANCE BETWEEN THE TIP OF THE CURBED ISLAND AND THE CENTER LINE OF THE PRIMARY COD MUST BE A MIN OF 10'–0" AND A MAX. OF 15'–0". THIS MEASUREMENT IS TAKEN PARALLEL TO THE INSIDE CURB FACE OF THE PRIMARY LANE.
2. THE CENTER OF THE SECONDARY MENU BOARD FOOTING SHOULD BE LOCATED APPROXIMATELY 7'–6" FROM THE TIP OF THE CURBED ISLAND.
3. THE MENU BOARD SHOULD BE AT AN ANGLE BETWEEN 40° AND 50° FROM A CAR POSITIONED AT THE COD, FOR FULL VIEWING BY DRIVERS OF CARS 6 AND 7.
4. THE END CAP OF THE SECONDARY LANE MENU BOARD SHOULD NOT BE LESS THAN 18" FROM FACE OF CURB.
5. THE OVERALL LENGTH OF THE CURBED ISLAND SHOULD NOT EXCEED 33'±. THIS ALLOWS FOR TWO CARS IN EACH LANE, AS COUNTED BACK FROM THE CAR AT THE COD. A THIRD CAR CAN BE POSITIONED AT THE COMMITMENT POINT, WHICH IS THE LAST POINT AT WHICH A CUSTOMER CAN COMMIT TO A LANE.
6. THE DISTANCE BETWEEN THE TIP OF THE CURBED ISLAND AND THE CENTER LINE OF THE SECONDARY COD MUST BE A MIN. OF 10'–0" AND A MAX. OF 13'–0". THIS MEASUREMENT IS TAKEN ALONG THE THIS MEASUREMENT IS TAKEN ALONG THE CENTERLINE OF THE SECONDARY LANE WHILE FOLLOWING THE INSIDE CURB FACE.
7. DRIVE–THRU LANES BOUND BY CURB ON BOTH SIDES ARE TO BE A MIN. OF 12'–0" WIDE AS MEASURED FROM CURB FACES.
8. DRIVE–THRU LANES BOUND BY CURB ON ONE SIDE AND PAINTED STRIPING ON THE OTHER MUST BE A MIN. OF 10'–0" WIDE AS MEASURE FROM CURB FACE TO PAINT.
9. ALL PRE–SELL BOARDS AND BOLLARD SIGNS MUST BE 18"–24" FROM FACE OF CURB. THIS IS MEASURE FROM THE CLOSEST POINT ON THE BOARD OR SIGN.
10. THE MIN. RADIUS FOR ALL INSIDE/DRIVER'S SIDE DRIVE–THRU CURBING IS 20'–0".
11. PRE–SELL BOARDS ARE TO BE ORIENTED AT AN ANGLE OF 30° FROM THE CURB. IF LOCATED ON A TURN, THEN THE BOARD SHOULD BE 30° FROM A CAR POSITIONED AT THAT BOARD.
12. COD FOOTING TO BE TIGHT AGAINST BACK OF CURB. THE PLACEMENT OF THE CODs SHOULD BE SUCH THAT IT PREVENTS, OR MINIMIZES, BLOCKING THE CUSTOMER'S VIEW OF THE MENU BOARD WHILE ORDERING.

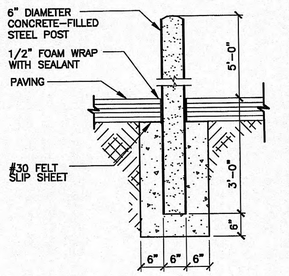


THE LAYOUT OF THE DRIVE–THRU LANES SHOWN IN THIS DETAIL ILLUSTRATES DRIVE–THRU DESIGN PRINCIPLES ONLY. FOR ACTUAL LAYOUT DERIVED FROM THESE PRINCIPLES, SEE CIVIL DRAWINGS.

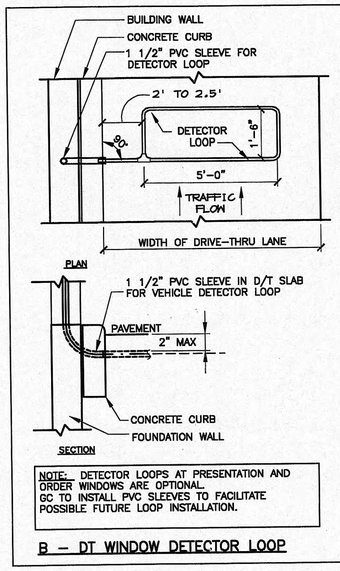
1 DT1.0 **DRIVE THRU LAYOUT GUIDELINES**
1" = 10'–0"

GENERAL NOTES

1. **SIGNAGE & DRIVE–THRU ELEMENTS:** COD, DRIVE–THRU PYLON/CLEARANCE POLE, BOLLARD SIGN, AND FREESTANDING MERCHANDIZER SHALL BE CONSISTENT WITH THE 2006 STANDARD BUILDING DESIGN DRIVE–THRU ELEMENTS AS DEVELOPED BY IMAGEPOINT. OTHER DESIGNS MAY NOT BE USED.
2. GENERAL CONTRACTOR SHALL COORDINATE WITH CIVIL PLANS, McDONALD'S PROJECT MANAGER, AND SIGNAGE SUPPLIER TO DETERMINE EXACT LOCATION, ORIENTATION, MOUNTING HEIGHTS, AND NUMBER OF SIGNS AND OTHER DRIVE–THRU ELEMENTS TO BE INSTALLED AT THIS SITE. ALL WORK TO BE COORDINATED WITH THE OTHER TRADES.
3. CONTACT IMAGE POINT (800.444.7446) OR McDONALD'S PROJECT MANAGER FOR SIGNAGE & DRIVE–THRU ELEMENT FOOTING AND WIRING REQUIREMENTS. IMAGEPOINT TO PROVIDE FOOTING ANCHORS & TEMPLATES TO G.C. PRIOR TO FOUNDATION POURING.
4. SEE DETAIL 2/DT1.0 AND ELECTRICAL SHEETS FOR SITE WIRING INFORMATION.
5. GENERAL CONTRACTOR TO COORDINATE THE RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR AND THE SIGN SUPPLIER.
6. GENERAL CONTRACTOR TO INSTALL PRE–FORMED, PRE–WIRED VEHICLE DETECTOR LOOP.
7. GENERAL CONTRACTOR SHALL VERIFY CONDUIT SIZES REQUIRED BY VEHICLE LOOP DETECTOR SUPPLIER.

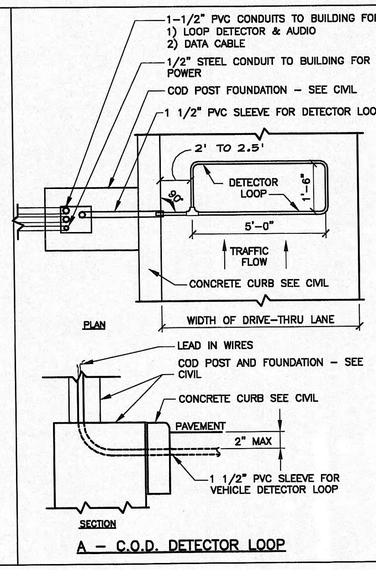


4 DT1.0 **BOLLARD DETAIL**
NOT TO SCALE



NOTE: DETECTOR LOOPS AT PRESENTATION AND ORDER WINDOWS ARE OPTIONAL. GC TO INSTALL PVC SLEEVES TO FACILITATE POSSIBLE FUTURE LOOP INSTALLATION.

B – DT WINDOW DETECTOR LOOP

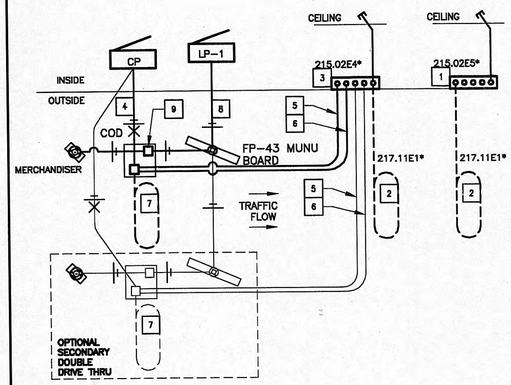


A – C.O.D. DETECTOR LOOP

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP (ITEM # 217.11E1) IN DRIVE THRU LANE. NSTALL PER MFR. RECOMMENDATIONS.
3. SEE CIVIL FOR DIMENSIONS OF DRIVE–THRU LANE CONCRETE PAD FOR DETECTOR LOOP.
4. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
5. DETECTOR LOOP MANUFACTURERS: DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWINGS COMPANIES OR EQUAL.
   3M: 1–800–328–0033
   HME: 1–800–848–4468
6. DETECTOR LOOP MATERIAL: PVC TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD–IN IS PRE–TWISTED AT FACTORY.
7. DETECTOR LOOP CONSTRUCTION: FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.

NOTES

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



KEY NOTES

1. ELECTRICAL EQUIPMENT ITEM 215.02E5* IN PRESENTATION BOOTH. PROVIDE 2" HOLE & GROMMET IN JUNCTION BOX COVER PLATE FOR POS DATA CABLES. PROVIDE 2 1/2"C ABOVE CEILING.
2. OPTIONAL DRIVE–THRU WINDOW DETECTOR LOOP FOR ORDER & PRESENTATION WINDOWS – SEE 3B/DT1.0. GC TO INSTALL PVC SLEEVES TO FACILITATE POSSIBLE FUTURE LOOP INSTALLATION.
3. ELECTRICAL EQUIPMENT ITEM #215.02E4 IN ORDER/CASH BOOTH. PROVIDE 2" HOLE & GROMMET IN JUNCTION BOX COVER PLATE FOR POS DATA CABLES. PROVIDE 2 1/2"C ABOVE CEILING.
4. PROVIDE STEEL CONDUIT AND CONDUCTOR PER POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL. 1/2"C–2#12 & 1#12 GROUND & 1 #12 ISOLATED GROUND. PROVIDE 1 CB PER COD.
5. 1 1/2" PVC CONDUIT FOR REMOTE LOOP DETECTOR & COD AUDIO CABLES. EC TO PROVIDE 3 PULL STRINGS INSIDE CONDUIT.
6. 1 1/2"C FOR COD DATA CABLES. EC TO PROVIDE 3 PULL STRINGS INSIDE CONDUIT.
7. CONDUIT FOR COD LOOP DETECTOR, ELECTRICAL EQUIPMENT ITEM 217.11E1* – SEE 3A/DT1.0.
8. 1/2"C–2#12, POWER FOR MENU BOARD ILLUMINATION.
9. "ORDER HERE" CANOPY LIGHTS.
- SEE ELECTRICAL EQUIPMENT SCHEDULE FOR NOTES ON NUMBERED ELECTRICAL EQUIPMENT.

2 DT1.0 **DRIVE THRU SITE WIRING**
(COD AND SPEAKER POST)

REV	DATE	DESCRIPTION	BY
–	–	–	–

PREPARED BY:
Michael B. Ebanks
Registered Architect
2111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	CHECKED BY	DATE ISSUED
RP	MR/TW	1/23/2009

STD ISSUE DATE JAN 2008

TITLE: 2008 PREFERRED PROTOTYPE 4511#+5R MASONRY/STEEL BLDG
DESCRIPTION: 6" CMU BEARING WALLS + 4" FACE BRICK; BAR JOIST ROOF FRAMING; CULTURED STONE ARCADES
SITE ID: 041–0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

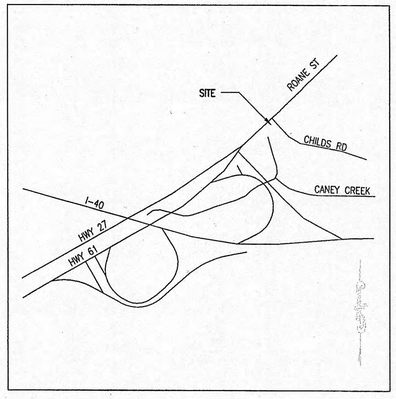
SHEET NO. 041–0084–00–0
DT1.0
DRIVE–THRU DTLS

K:\DIV\EAST\– RAL\041–0084–00–0 HARRIMAN\DT1–0.DWG 01–22–2009 15:19

1705 SOUTH ROANE ST
HARRIMAN, TN

STATE SITE CODE: 041-0084
GBL NUMBER: 195500306698

VICINITY MAP



SITE INFORMATION

STATE SITE CODE	041-0084
GBL NUMBER	195500306698
CIVIL ENGINEER	BRITT PETERS & ASSOCIATES 550 S. MAIN STREET GREENVILLE, SC 29601 864.271.8869
LAND USE/PLANNING	
– ZONING	C-2 GENERAL COMMERCIAL
– EXISTING USE	MCDONALD'S RESTUARANT
– PROPOSED USE	MCDONALD'S RESTUARANT
BUILDING SETBACKS	
– FRONT	30'
– SIDE	15'/30'
– REAR	25'
PROVIDED PARKING SPACES	
– STANDARD	72
– ACCESSIBLE, CAR	2
– ACCESSIBLE, VAN	1
PROVIDED TOTAL	75
REQUIRED PARKING SPACES	
– STANDARD	60
– ACCESSIBLE, CAR	2
– ACCESSIBLE, VAN	1
REQUIRED TOTAL	63
SITE DATA	
– AREA	2.3 ACRES
– DISTRUBED AREA	2.1 ACRES
– IMPERVIOUS RATIO (ACTUAL)	56.5%
– IMPERVIOUS RATIO (REQUIRED)	
BUILDING DATA	
– AREA	5,170 SF

CONTACT INFORMATION

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FRANKIE DAVIS/JEFF MIZE
SUPV-WATER/SAN SEWER/GAS

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STEVE LADD – SUPERVISOR

TELEPHONE:
AT&T
9733 PARKSIDE DR
KNOXVILLE, TN 37922
TEL.: 865.539.8566
MAUREEN KEYES/GEORGE DOUGLAS – ENGINEER

HEALTH:
LOUDON COUNTY HEALTH DEPT.
PO BOX 278
LOUDON, TN 37774
TEL.: 865.458.2662 X 122
LARRY MANIS – ENVIRONMENTALIST

DRAWING INDEX

1st ISSUE 01.06.09	DWG. NUMBER	DRAWING DESCRIPTION
■	C-1	COVER SHEET
■	C-2	TOPOGRAPHIC SURVEY
■	C-3	SITE PLAN
■	C-4	ADA ACCESSIBILITY PLAN
■	C-5	GRADING/EROSION CONTROL PLAN
■	C-6	UTILITY PLAN
■	C-7	DETAILS
■	C-8	DETAILS
■	C-9	DETAILS
■	C-10	MENU BOARD DETAILS
■	C-11	SD DETAILS
■	C-12	DEMOLITION PLAN
■	L-1	LANDSCAPE PLAN
■	L-2	LIGHTING PLAN
■	TC-1	TRASH CORRAL/STORAGE BUILDING
■	TC-2	TRASH CORRAL DETAILS

REV	DATE	DESCRIPTION	BY	ISSUED/REF
A	01-06-09	ISSUE FOR PERMIT	YAG	

BRITT PETERS AND ASSOCIATES INC.
consulting engineers

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Suite 301
Greenville, SC 29601
(864) 271-8869
Fax (864) 233-5140
www.brittpeters.com

McDonald's

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OFFICE: RALEIGH REGION
ADDRESS: 4601 SIX FORKS ROAD - SUITE 200 - RALEIGH, N.C. 27609

PLAN APPROVAL

	SIGNATURE (2 REQUIRED)	DATE
REGIONAL MGR.		
REGIONAL DEV. DIRECTOR		
REGIONAL CONSTRUCTION MGR.		
REGIONAL REAL ESTATE MGR.		

CO-SIGN SIGNATURES

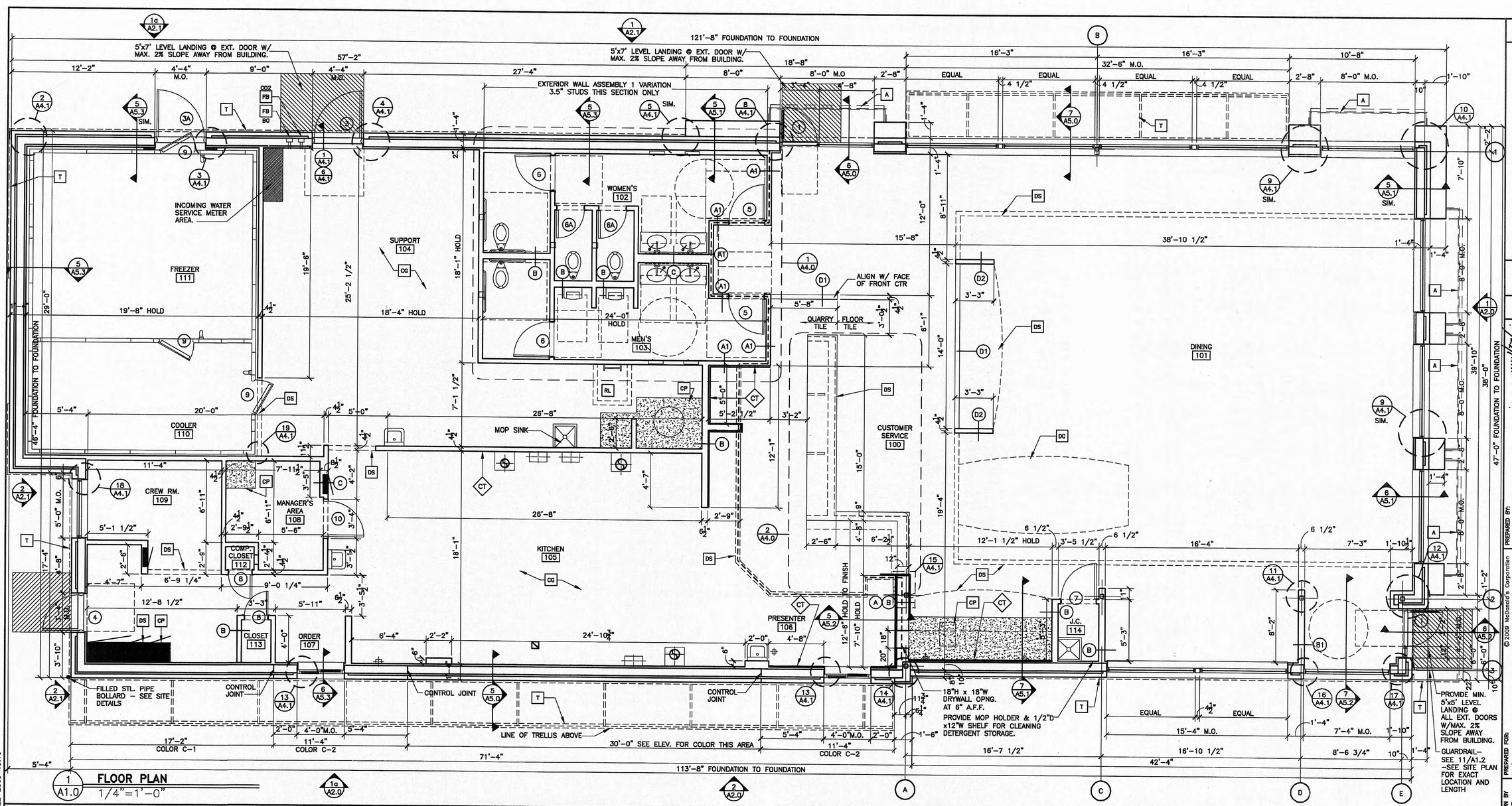
AREA CONSTRUCTION MGR.		
CONTRACTOR		

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

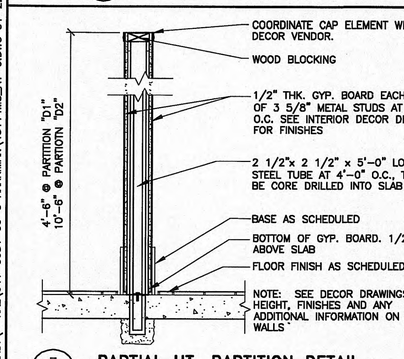
JOHN ANDREW CONNELLY
REGISTERED
LANDSCAPE ARCHITECT
0010107
STATE OF TENNESSEE

1/6/09

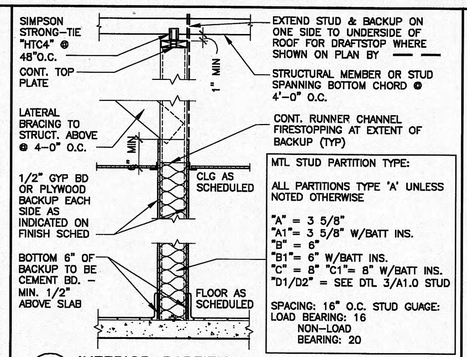
C-1
COVER SHEET



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



3 / A1.0 PARTIAL HT. PARTITION DETAIL
N.T.S.



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

KEY NOTES

- A — AWNING ABOVE – BY OTHERS
- CG — G.C. TO PROVIDE 4"x4"x8'–6" HIGH STAINLESS STEEL CORNER GUARDS AT ALL EXPOSED LOCATIONS IN KITCHEN/SUPPORT AREA. CORNER GUARDS TO START AT FINISH FLOOR. ATTACH WITH WOOD SCREWS INTO WOOD BLOCKING. BULLNOSE COVE BASE WHERE TILE MEETS STAINLESS STEEL CORNER
- CP — CONCRETE EQMT PAD – SEE STRUCTURAL
- DC — SUSPENDED DECORATIVE CEILING TREATMENT – SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.
- DS — DROPPED SOFFIT ABOVE – SEE REFLECTED CEILING PLAN
- FB CO2 — CO2 FILL BOX (EQUIPMENT SCHEDULE ITEM 49.00)
- FB BO — OPTIONAL BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18) CONFIRM USE WITH McDONALD'S PROJECT MANAGER
- RL — ROOF ACCESS LADDER W/HATCH ABOVE SEE STRUCTURAL FRAMING PLAN FOR LOCATING DIMENSIONS
- T — TRELLIS SYSTEM ABOVE SEE 4/A5.0 FOR NOTES SEE ROOF PLAN FOR DIMENSIONS

GENERAL NOTES

1. EXTERIOR DIMENSIONS ARE TO COLUMN REFERENCE LINES AND EXTERIOR FACE OF FINISH UNLESS OTHERWISE NOTED. INTERIOR DIMENSIONS ARE TO FACE OF FINISH.
2. SEE 4/A5.0 FOR EXTERIOR WALL ASSEMBLY TYPES. SEE 2/A1.0 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITIONS ARE TYPE 'A' UNLESS NOTED OTHERWISE.
3. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES
4. SEE SHEET A6.0 FOR DOOR AND ROOM FINISH SCHEDULES
5. SEE SITE PLAN FOR SIDEWALKS, RAMPS, ETC.
6. GC TO PROVIDE ADA SIGNAGE PACKAGE AND INSTALL SIGNS AT LOCATIONS AND POSITIONS INDICATED IN PACKAGE OR AS REQUIRED BY LOCAL CODES. SIGNAGE PACKAGE SUPPLIED BY: FORREST PERMA–SIGN 1–800–214–8765 9292 1ST ST., BOX 588 www.forrestpermasigns.com NEW ROCHELLE, NY 10802
7. MAXIMUM OCCUPANCY SIGN TO BE POSTED PER LOCAL CODE. SIGN FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
8. ALL HANDSINK LOCATIONS SHALL HAVE CEMENT BOARD BACKING 48" IN HEIGHT A.F.F.

SYMBOL LEGEND

- (A) — PARTITION TYPE TAG SEE 2/A1.0
- DRAFT STOPPING – SEE 2/A1.0
- (7) — DOOR TAG – SEE DOOR SCHEDULE ON A6.0
- CT — CERAMIC WALL TILE @ CUSTOMER SERVICE AND KITCHEN SERVING AREAS – TO BE COORDINATED W/FINAL DINING DECOR SCHEME & McDONALD'S PROJECT MANAGER
- [x] — KEY NOTE

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael B. Ebanks
Registered Architect
2111 McDonald's Drive
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: RP
STD ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK; BAR JOIST ROOF FRAMING; CULTURED STONE ARCADES
SITE ID: 041–0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO.: A1.0
FLOOR PLAN

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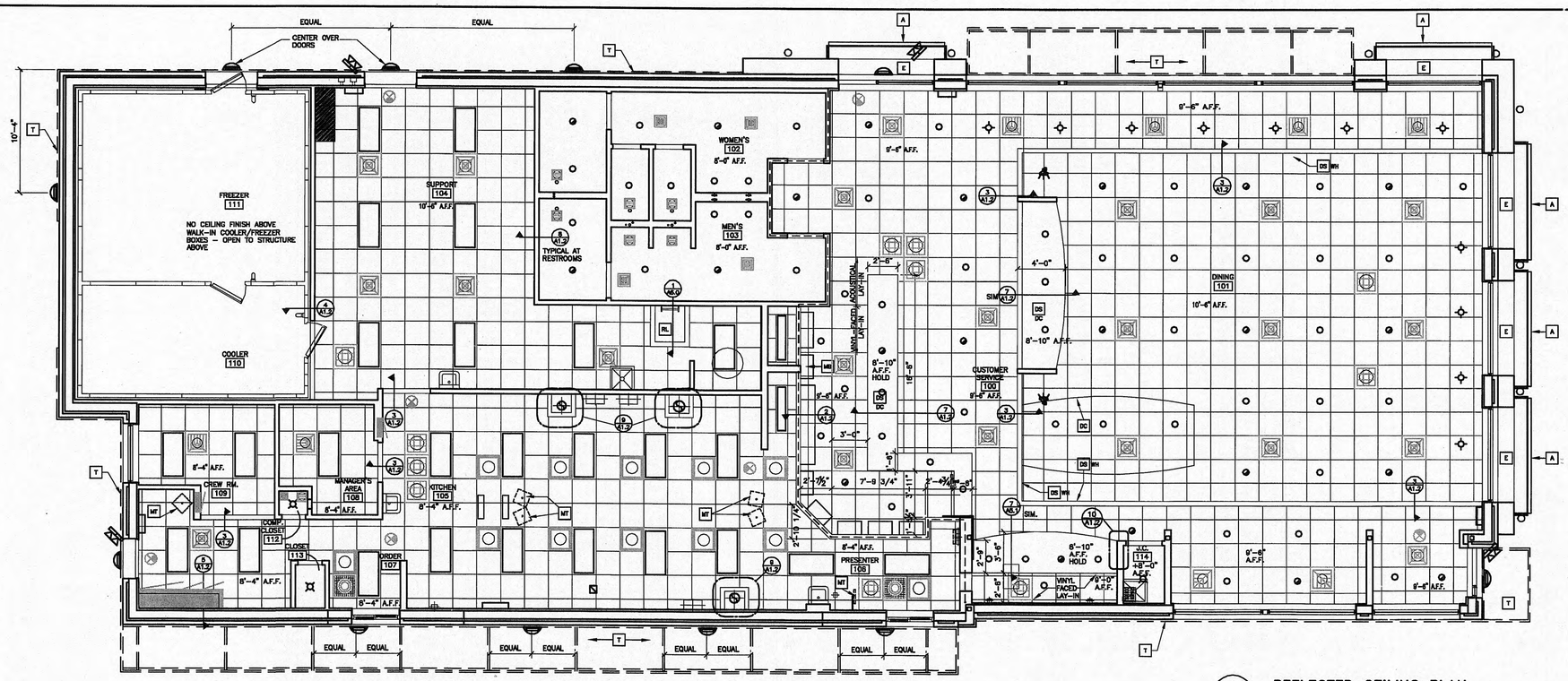

1 A1.2 **REFLECTED CEILING PLAN**
3/16"=1'-0"

KEY NOTES

- A — METAL AWNING – BY OTHERS
- E — BREAKMETAL SOFFIT – SEE EXT. ELEV. & WALL SECTIONS FOR CONSTRUCTION AND FINISHES
- DC — SUSPENDED DECORATIVE CEILING TREATMENT – SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.
- DS — DROPPED SOFFIT
  - DC–WH — BOTTOM TO ALIGN WITH GYP BD AT EXTERIOR WINDOW HEAD. MAY BE REPLACED BY ELEMENT BY DECOR SUPPLIER – CONFIRM WITH McD PROJECT MANAGER
- MB — MENU BOARD WITH BEZELS BY OTHERS UNDER SEPERATE PERMIT – SEE ELEC PLANS
- MT — CEILING MOUNTED MONITOR: A) VERIFY MONITOR LOCATIONS WITH McDONALD'S PROJECT MANAGER PRIOR TO INSTALLATION. B) SEE DETAIL 6/A1.2 FOR INSTALLATION METHOD
- RL — ROOF LADDER OPENING
- T — TRELLIS SYSTEM – SEE 4/A5.0 FOR NOTES SEE ROOF PLAN FOR DIMENSIONS

GENERAL NOTES

1. SEE SHT A6.0 FOR CEILING FINISHES.
2. SEE SHT A1.2 FOR MENU BOARD DROPPED SOFFIT LOCATION DIMENSIONS
3. GENERAL CONTRACTOR SHALL COORDINATE HVAC REGISTERS LOCATION WITH MECHANICAL PLANS AND REPORT ANY DISCREPANCIES TO ARCHITECT.
4. CEILING MOUNTED MONITORS: A) VERIFY MONITOR LOCATIONS WITH McDONALD'S PROJECT MANAGER PRIOR TO INSTALLATION. B) SEE DETAIL 6/A1.2 FOR INSTALLATION METHOD
5. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR DIFFUSER AND LIGHTING INFORMATION.

NOTE: DROP SOFFIT AT FRONT COUNTER, SELF–SERVE BEVERAGE AND DINING ROOM MAY BE SUPPLIED AND MANUFACTURED BY SEATING AND DECOR PROVIDER. MANUFACTORED DROP SOFFITS TO BE COORDINATED WITH LIGHTING AND DIFFUSER LAYOUT ACCORDINGLY.

BY	DESCRIPTION	DATE	REV

PREPARED BY:
Michael B. Ebanks
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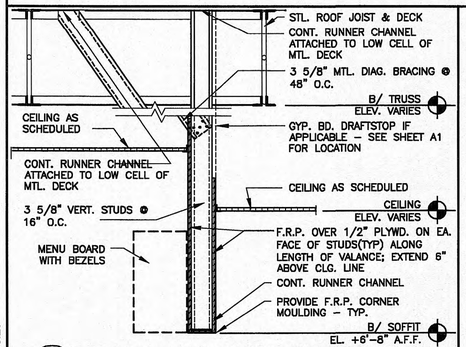
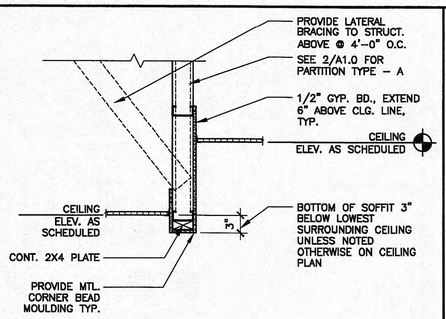
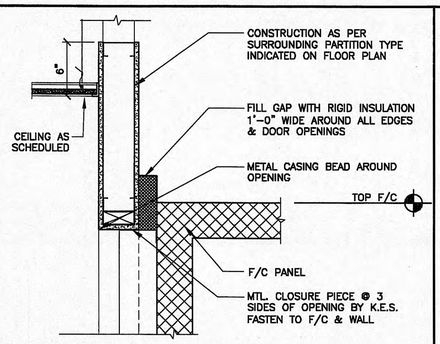


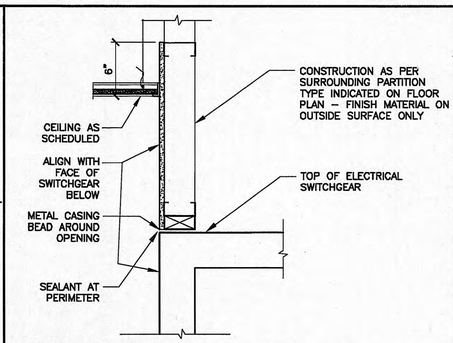
2 A1.2 **SECTION @ MENU VALANCE**
1"=1'–0" A0610SA1



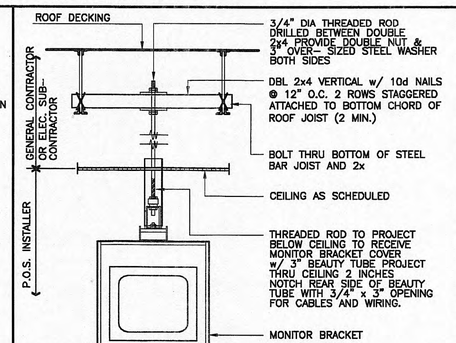
3 A1.2 **SECT. AT CEILING TRANSITION**
1"=1'–0" A0610WA2



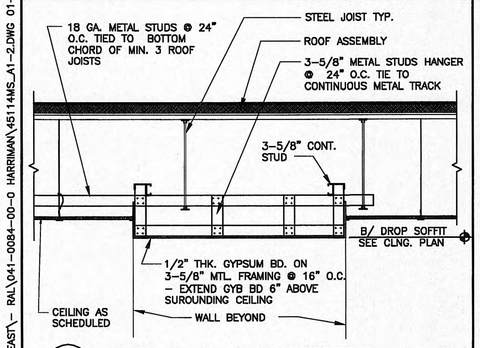
4 A1.2 **SECTION AT COOLER DOOR**
1 1/2"=1'–0" A1140SA2



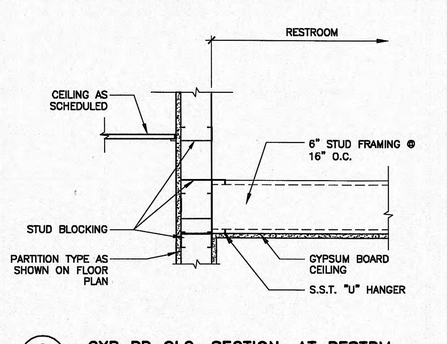
5 A1.2 **SECTION AT SWITCHGEAR**
1 1/2"=1'–0" A1140SA2



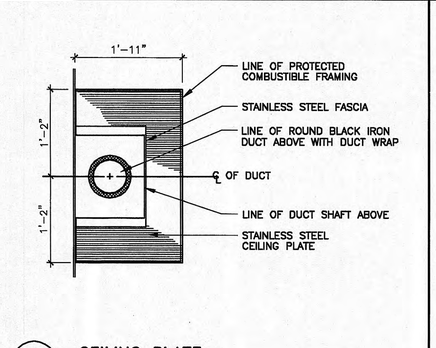
6 A1.2 **MONITOR INSTALLATION DETAIL**
NONE STD 2/00 A0610SA3



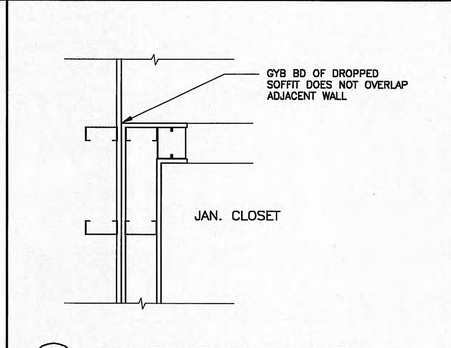
7 A1.2 **SECT. @ D.R. CLG. SOFFIT**
1/2"=1'–0" A0610WA3



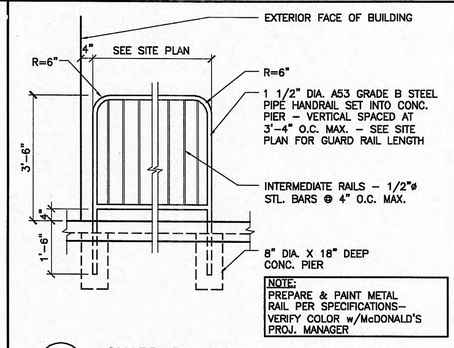
8 A1.2 **GYP BD CLG. SECTION. AT RESTRM.**
1 1/2"=1'–0" A0610WB1



9 A1.2 **CEILING PLATE**
NOT TO SCALE



10 A1.2 **PLAN DTL. @ BEV BAR SOFFIT**
1 1/2"=1'–0" A0610WB1



11 A1.2 **GUARD RAIL DETAIL**
1/2"=1'–0" A0552_A1

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DRAWN BY	STD. ISSUE DATE	REVIEWED BY	DATE ISSUED
RF	JAN 2008	MK/TW	1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION	SITE ADDRESS
8" CMU BEARING WALLS + 4" FACE BRICK	
BAR JOIST ROOF FRAMING	
CULTURED STONE ARCADES	
SITE ID 041–0084	1705 South Reona Street, Harriman, TN 37748

SHEET NO. 041–0084–00–0
A1.2
REFLECTED CEILING

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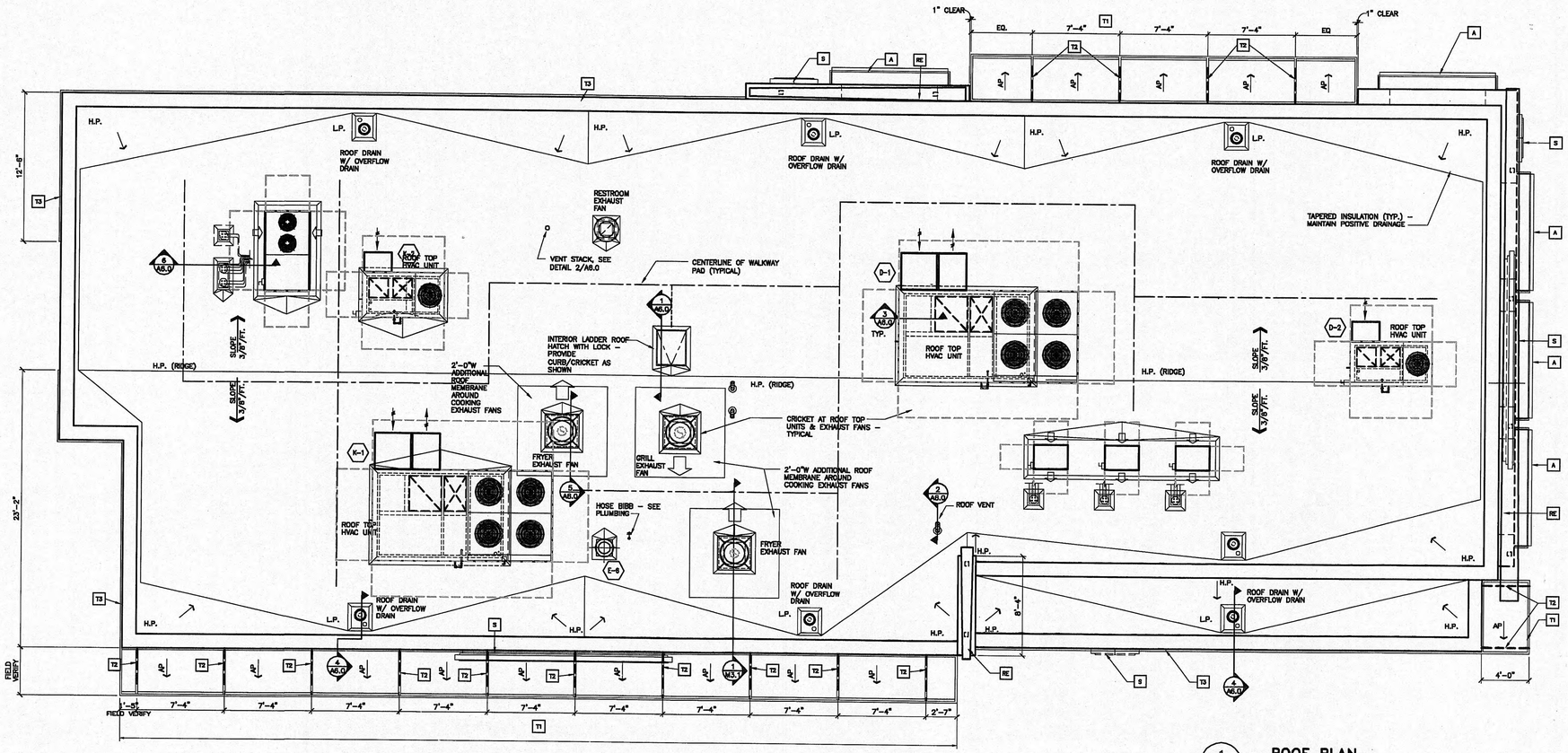


1 A1.3 **ROOF PLAN**
3/16"=1'-0"

LEGEND

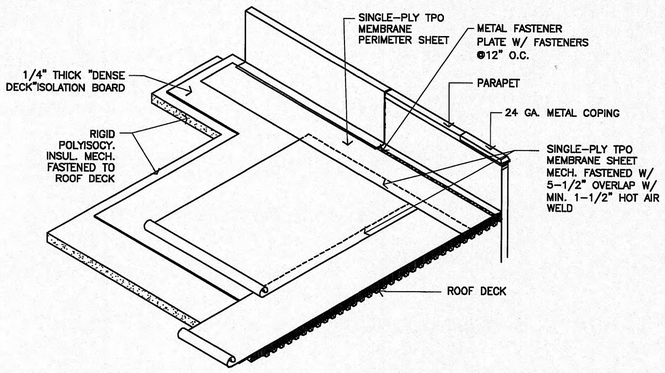
L.P.	LOW POINT
H.P.	HIGH POINT
←	DIRECTION OF DRAINAGE
← AP	TRELLIS SYSTEM WITH ALUMINUM INFILL PANELS. SLOPE TO EDGE @1/4"PER FT.

KEY NOTES

- A METAL AWNING BY OTHERS
- RE ROOF ELEMENT & SUPPORT BY OTHERS – SEE ELEVATIONS AND SECTIONS
- S McDONALD'S SIGNAGE BY OTHERS SEE ELEVATIONS
- T1 ALUMINUM TRELLIS
- T2 TRELLIS TIE–BACK
- T3 TRELLIS SYSTEM 2X8 WALL FASCIA

ROOFING NOTES

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



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

ROOFING SYSTEM

1. Manufacturers and Products:
   a. Carlisle Syntec Incorporated:
      Sure–Weld TPO Roofing System
   b. Johns Manville
      UltraGard SRT–60
   c. Stevens Roofing Systems:
      Stevens EP Roofing Membrane
2. Specified Roofing Systems (as shown):

Sure–Weld: Carlisle Syntec Inc. – IBC Standard – single–ply TPO roofing system installed over a rigid insulation on roof deck having a slope of 3/8"/FT. Materials shall be as follows:

a. Sure–Weld TPO Roofing System as manufactured by Carlisle Syntec Inc. to comply with ASTM D–6878.

b. Fasteners: Metal HP–X Fasteners w/ Piranha plates by Carlisle

3. Walkways:
   a. 30" wide Sure–Weld walkway roll, hot air welded to membrane.
   b. Provide walkway from roof ladder location to roof top units. Final configuration of walkway pads to be determined by Project manager on the field.
   c. Install walkway according to walkway pad manufacturer's written instuction.
4. Rigid Insulation:
   Provide (2) layers of polyisocyanurate insulation w/ cover board to meet R–30 value – thickness as required. Provide positive slope to drains/scuppers (3/8" per foot min.) see roof plan. Provide top layer protection material as per manufacturers recommendations. Bottom layer of insulation to have intergral thermal barrier or approved roofing manufacturer's thermal underlayment sheet. Assembly to comply with UL 1256 or FMG 4450.

BY	DESCRIPTION	REV	DATE

PREPARED BY:
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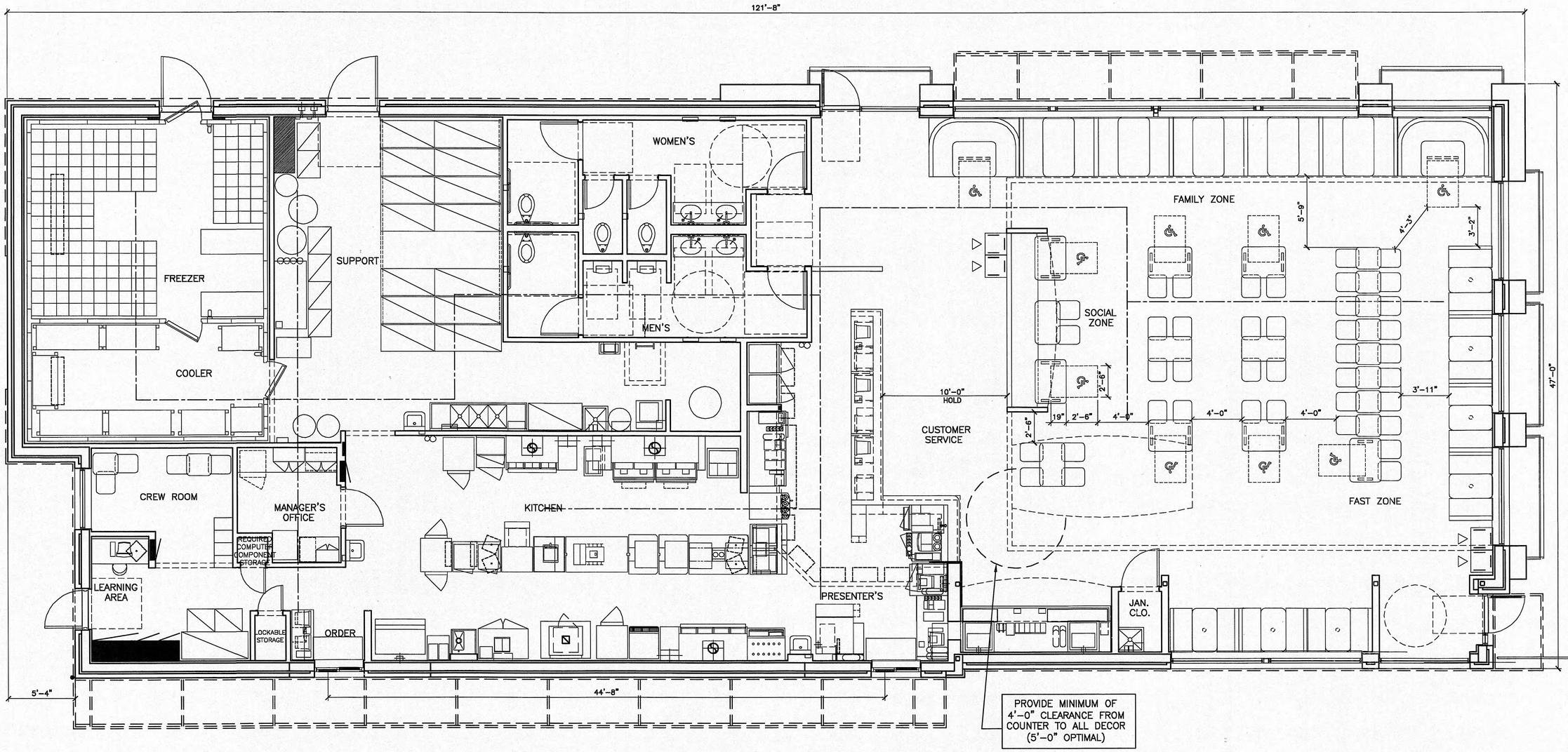
DRAWN BY:	RP
STD ISSUE DATE	JAN 2008
REVIEWED BY	MR/TW
DATE ISSUED	1/23/2009
SITE ADDRESS	1705 South Roane Street, Harriman, TN 37748

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG
DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES
SITE ID
041–0084

SHEET NO.
041–0084–00–0
A1.3
ROOF PLAN



45-114 + 5'R BUILDING PLAN
5,486 GROSS SQ. FT./ 5,000 NET SQ. FT.
125 SEATS (8 ACCESSIBLE SEATS)

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REV	DATE	DESCRIPTION	BY

PREPARED BY:
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Registered Architect
2111 McDonald's Drive
Oak Brook, IL 60523

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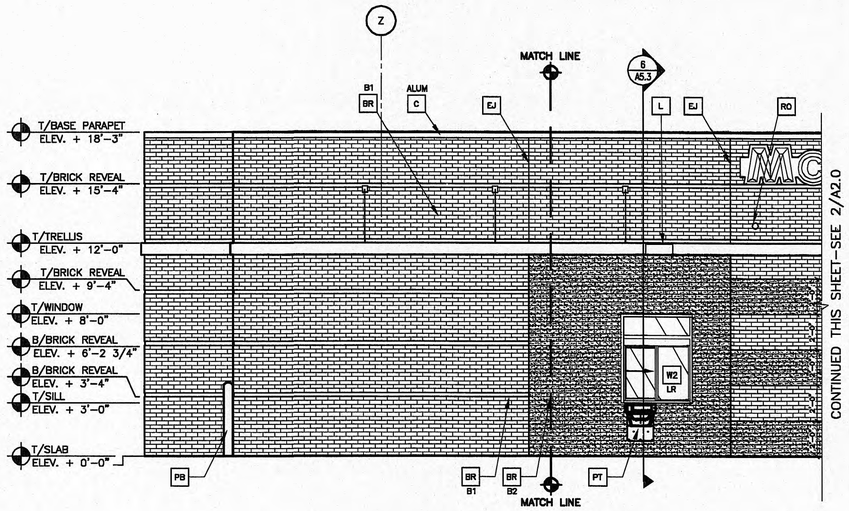
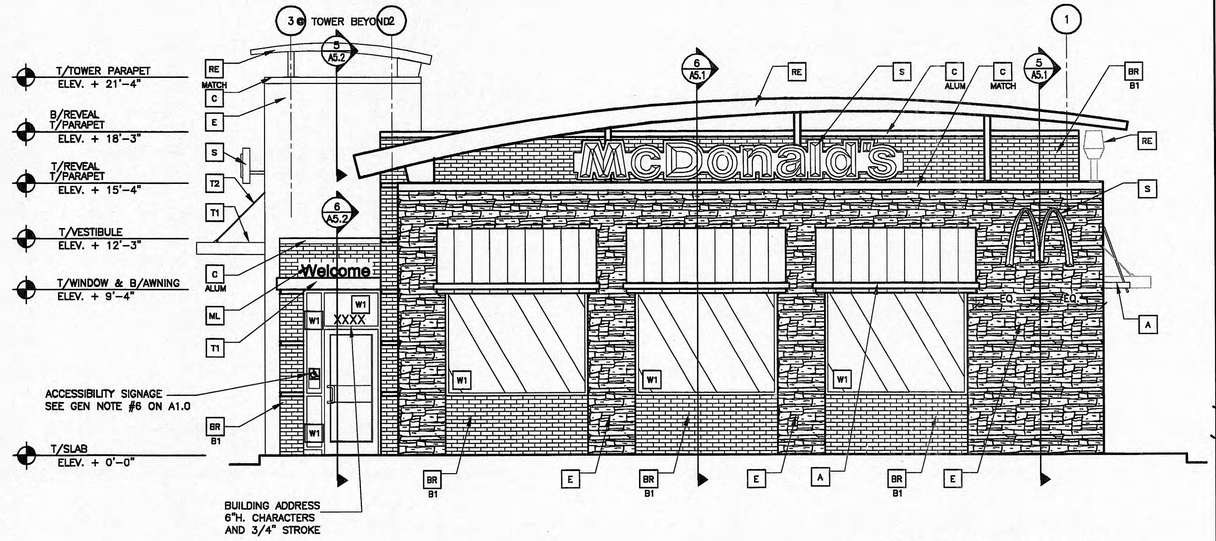
TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES
SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

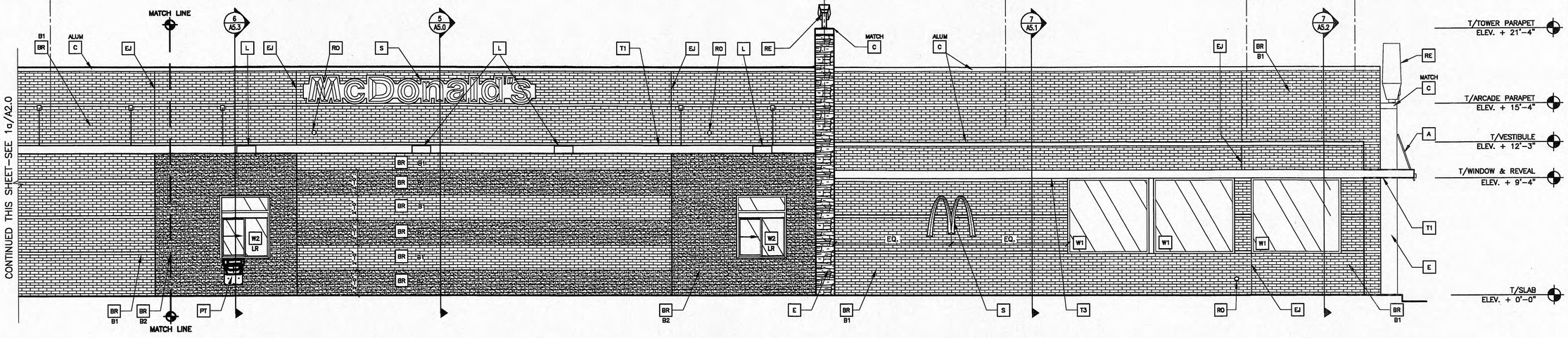
SHEET NO. 041-0084-00-0
A1.6
SEATING PLAN



1a A2.0 **DRIVE-THRU ELEVATION (CONT.)**
1/4" = 1'-0"



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



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

KEY NOTES:

- A — METAL AWNING – UNDER SEPARATE PERMIT. COLOR TO BE ALTER. STRIPES TO MATCH PANTONE 166U & 109C, PROVIDED BY SIGN CONTRACTOR.
- BR B1 — 4" FACE BRICK OVER 8" CONCRETE BLOCK, SEE PLANS. COLOR: B1 = "RUBICO RED VELOUR" BY BELDEN OR EQUAL; B2 = "MODULAR MIDLAND BLEND A" BY BELDEN OR EQUAL
- C ALUM — METAL COPING – COLOR = ALUMINUM
- C MATCH — METAL COPING. COLOR TO MATCH SURROUNDING MATERIAL
- EJ — EXPANSION JOINT, SEE DETAIL 7/A4.1
- D — HOLLOW METAL DOOR – PAINT TO MATCH COLOR OF SURROUNDING MATERIAL
- E — CULTURED STONE, COBBLEFIELD –TEXAS CREAM, CSV-2083 BY OWENS CORNING. ALTERNATE: STUCCO FINISH, COLOR TO BE SNOW WHITE #2122-70 BY BENJAMIN MOORE, SEE SHEET A5.0 FOR ASSEMBLY.
- FB CO2 — CO2 FILL BOX (EQPM SCHEDULE ITEM 49.00)
- FB BO — OPTIONAL BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18) – CONFIRM USE WITH MCD PROJECT MANAGER
- L — LIGHT FIXTURE (WALL SCONCE) – SEE ELECTRICAL
- ML — METAL LETTERING – BY OTHERS
- PB — PIPE BOLLARD
- PT — PASS-THRU COIN COLLECTOR – OPTIONAL (RMHC)
- RE — ROOF CAP ELEMENT BY OTHERS
- RO — ROOF DRAIN OVERFLOW PIPE PAINT TO MATCH SURROUNDING MATERIAL
- S — McDONALD'S SIGNAGE BY OTHERS – UNDER SEPARATE PERMIT. SEE SIGNAGE SUPPORT NOTE ON THIS SHEET.
- T1 — ALUMINUM TRELLIS
- T2 — TRELLIS TIE-BACK
- T3 — TRELLIS SYSTEM 2X8 WALL FASCIA
- W1 — IMPACT RESISTANT GLAZING EXTERIOR WINDOW ASSEMBLY – SEE ASEMBLY NOTES ON SHEET A5.0
- W2 XX — DRIVE-THRU WINDOW W/ IMPACT RESISTANT GLAZING BY READY ACCESS. CONFIRM MODEL, OPTIONS, AND SIZE WITH MCD PROJECT MANAGER. OPTIONS INCLUDE: TRANSOM (SHOWN); AIR CURTAIN; FLYFAN/TRANSOM & 432 SQ IN MAX SERVICE OPENING (WHERE REQD BY CODE). SLIDE DIRECTION: RL = RIGHT TO LEFT; LR = LEFT TO RIGHT
- SP — SPANDREL PANEL SET IN AN EXTERIOR WINDOW ASSEMBLY – SEE ASSEMBLY NOTES ON SHEET A5.0, COLOR TO MATCH WINDOW FRAMES

REV	DATE	DESCRIPTION	BY

PREPARED BY:
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Registered Architect
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Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: RP
STD ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 4511 4+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK; BAR JOIST ROOF FRAMING; CULTURED STONE ARCADES
SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO.: A2.0
ELEVATIONS

041-0084-00-0

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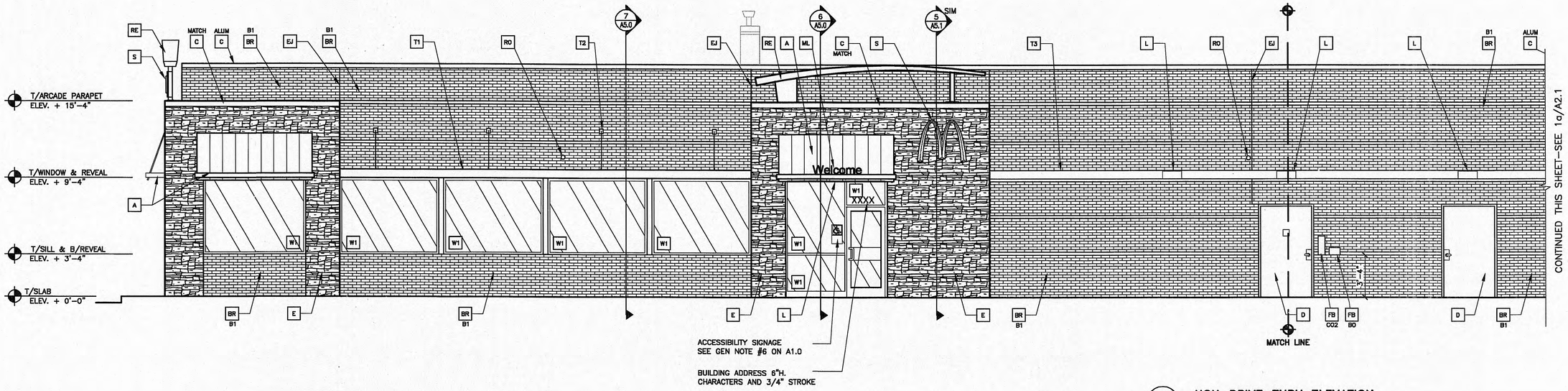
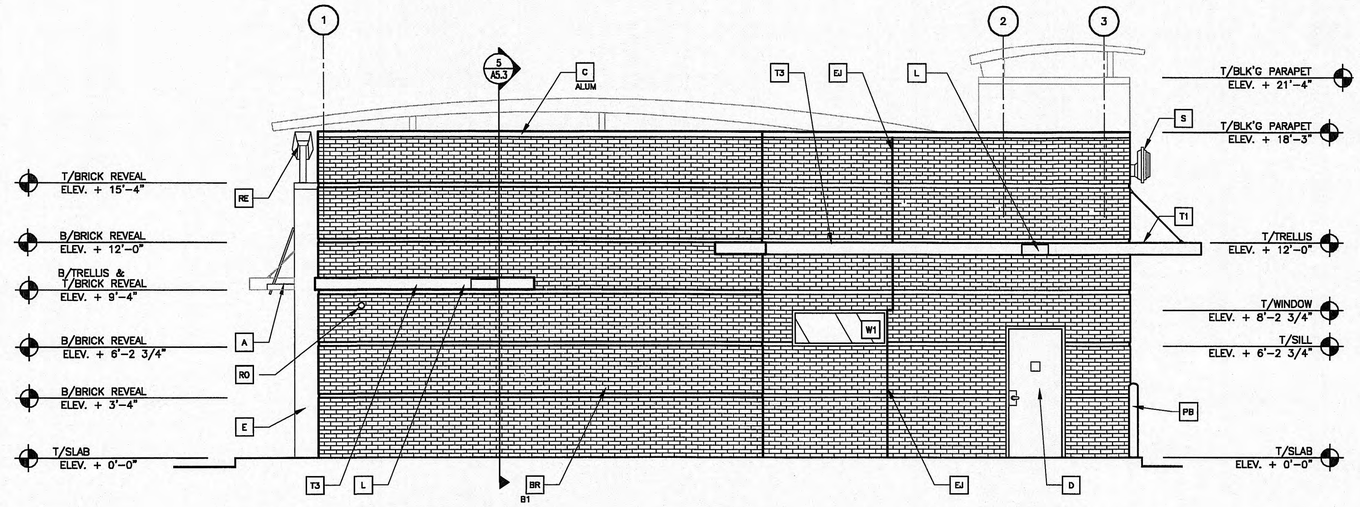
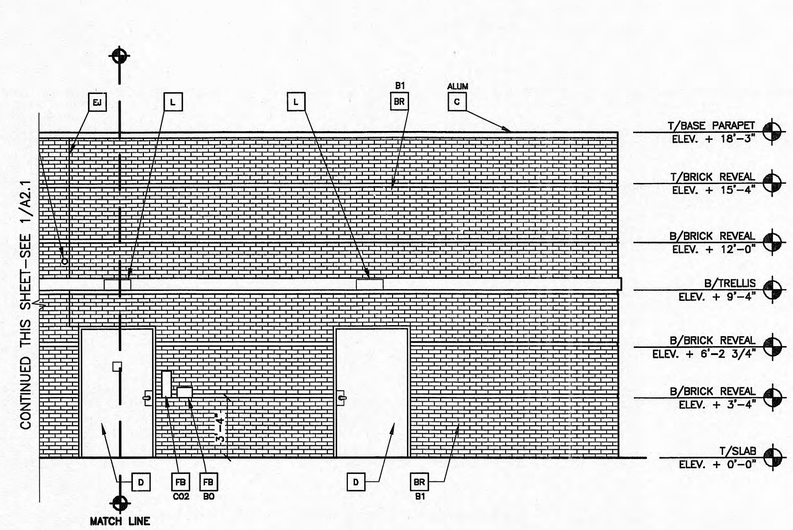


1 / A2.1 **NON-DRIVE-THRU ELEVATION**
1/4" = 1'-0"



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



1a / A2.1 **NON--DRIVE-THRU ELEVATION (CONT.)**
1/4" = 1'-0"

KEY NOTES:

- A — METAL AWNING – UNDER SEPARATE PERMIT. COLOR TO BE ALTER. STRIPES TO MATCH PANTONE 166U & 109C, PROVIDED BY SIGN CONTRACTOR.
- BR / B1 — 4" FACE BRICK OVER 8" CONCRETE BLOCK, SEE PLANS.
  - COLOR:
  - B1 = "RUBIGO RED VELOUR" BY BELDEN OR EQUAL
  - B2 = "MODULAR MIDLAND BLEND A" BY BELDEN OR EQUAL
- C / ALUM — METAL COPING – COLOR = ALUMINUM
- C / MATCH — METAL COPING. COLOR TO MATCH SURROUNDING MATERIAL
- EJ — EXPANSION JOINT, SEE DETAIL 7/A4.1
- D — HOLLOW METAL DOOR – PAINT TO MATCH COLOR OF SURROUNDING MATERIAL
- E — CULTURED STONE, COBBLEFIELD –TEXAS CREAM, CSV–2083 BY OWENS CORNING
  - ALTERNATE:
  - STUCCO FINISH, COLOR TO BE SNOW WHITE #2122–70 BY BENJAMIN MOORE, SEE SHEET A5.0 FOR ASSEMBLY.
- FB / CO2 — CO2 FILL BOX (EQPM SCHEDULE ITEM 49.00)
- FB / BO — OPTIONAL BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18) – CONFIRM USE WITH MCD PROJECT MANAGER
- L — LIGHT FIXTURE (WALL SCONCE) – SEE ELECTRICAL
- ML — METAL LETTERING – BY OTHERS
- PB — PIPE BOLLARD
- PT — PASS–THRU COIN COLLECTOR – OPTIONAL (RMHC)
- RE — ROOF CAP ELEMENT BY OTHERS
- RO — ROOF DRAIN OVERFLOW PIPE PAINT TO MATCH SURROUNDING MATERIAL
- S — McDONALD'S SIGNAGE BY OTHERS – UNDER SEPARATE PERMIT. SEE SIGNAGE SUPPORT NOTE ON THIS SHEET.
- T1 — ALUMINUM TRELLIS
- T2 — TRELLIS TIE–BACK
- T3 — TRELLIS SYSTEM 2X8 WALL FASCIA
- W1 — IMPACT RESISTANT GLAZING EXTERIOR WINDOW ASSEMBLY – SEE ASSEMBLY NOTES ON SHEET A5.0
- W2 / XX — DRIVE–THRU WINDOW W/ IMPACT RESISTANT GLAZING BY READY ACCESS. CONFIRM MODEL, OPTIONS, AND SIZE WITH MCD PROJECT MANAGER
  - OPTIONS INCLUDE:
  - TRANSOM (SHOWN); AIR CURTAIN; FLYFAN/TRANSOM & 432 SQ IN MAX SERVICE OPENING (WHERE REQD BY CODE)
  - SLIDE DIRECTION:
  - RL = RIGHT TO LEFT
  - LR = LEFT TO RIGHT
- SP — SPANDREL PANEL SET IN AN EXTERIOR WINDOW ASSEMBLY – SEE ASSEMBLY NOTES ON SHEET A5.0, COLOR TO MATCH WINDOW FRAMES

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael B. Ebanks
Registered Architect
2111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR: McDonald's USA, LLC

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DRAWN BY: RP
STD ISSUE DATE: JAN 2008
REVIEWED BY: MK/TW
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 4511 4+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES
SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO.: 041-0084-00-0
A2.1
ELEVATIONS

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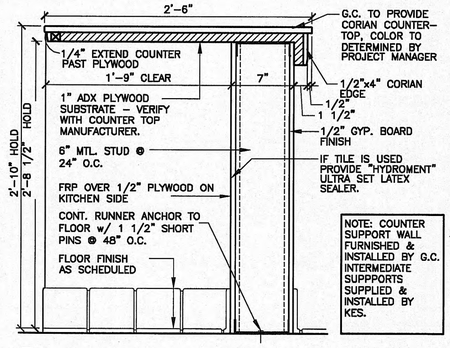
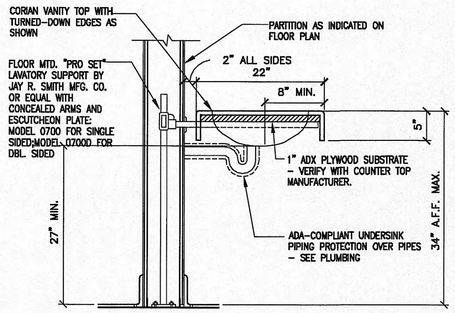
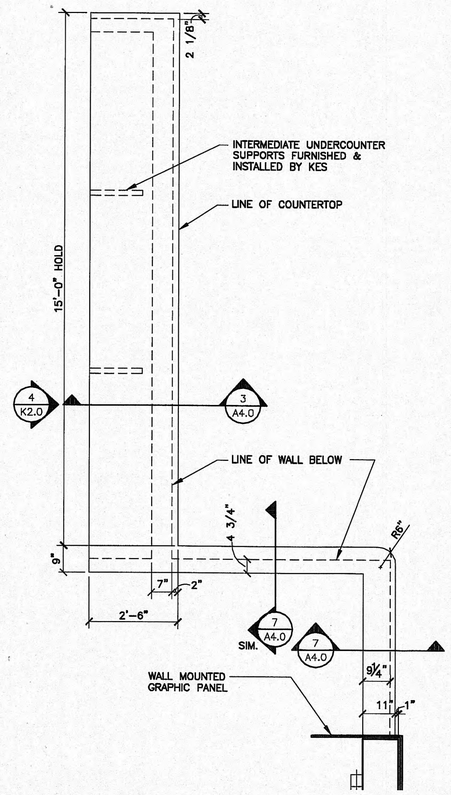


3 A4.0 **COUNTERTOP SECTION**
1 1/2"=1'-0"

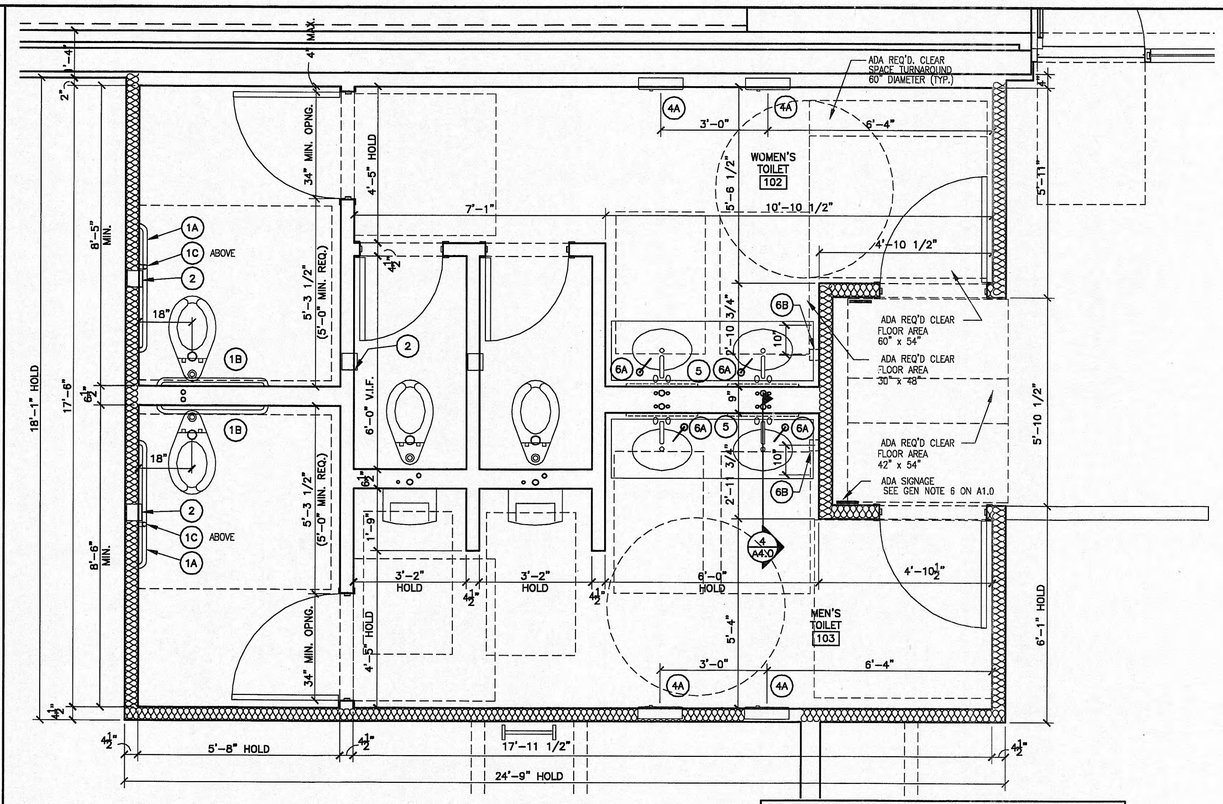


4 A4.0 **SECTION @ LAVATORY**
1"=1'-0"

A1540_A4



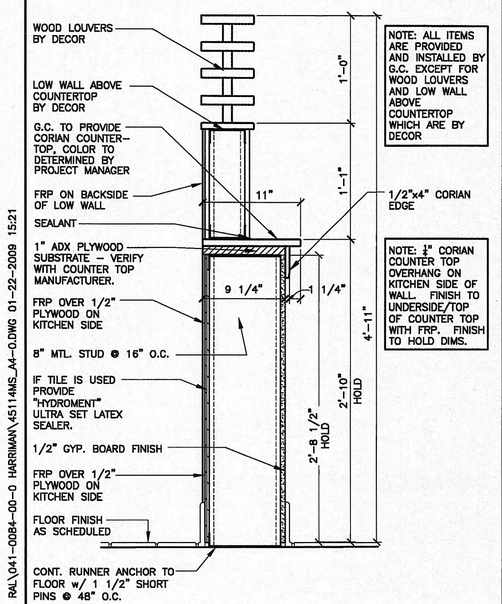
2 A4.0 **FRONT COUNTER PLAN**
1/2" = 1'-0"



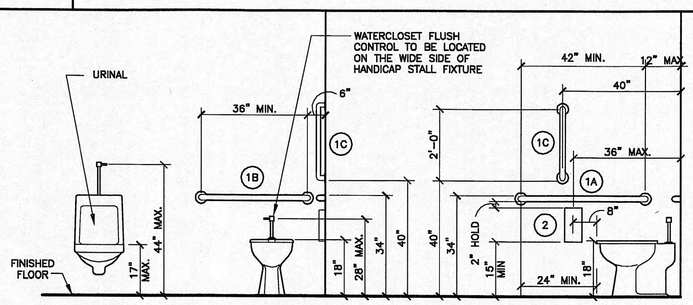
NOTES

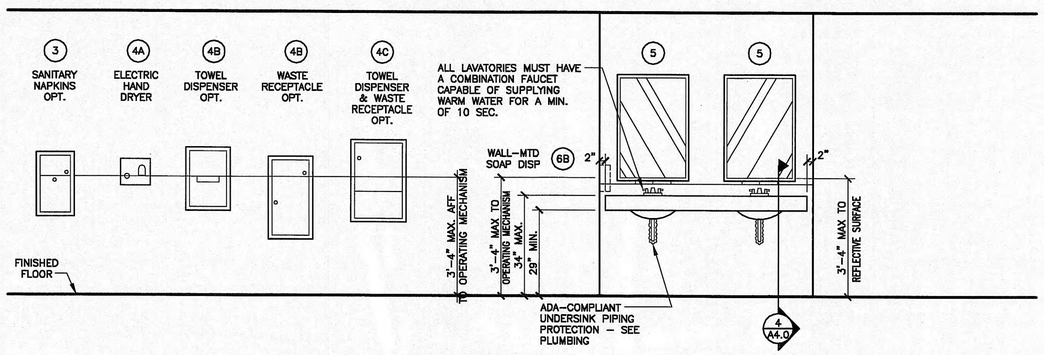
1. ALL DIMENSIONS SHOWN ARE TAKEN TO GYP. BD.
2. SEE SHEET A1.0 FOR PARTITION TYPES
3. SEE SHEET A6.0 FOR DOOR AND FINISH SCHEDULES.
4. SEE 6/A4.0 FOR FIXTURE MOUNTING HEIGHTS
5. (X) = RESTROOM ACCESSORY - SEE 5/A4.0

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



7 A4.0 **COUNTERTOP SECTION**
1 1/2"=1'-0"





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

	ITEM (SEE NOTE 2)	MODEL #	SUPPLIER	BACKUP SUPPORT (SEE NOTE 3)
1A	GRAB BAR 42"	812-001-42	UNIVERSAL MFG. 800-821-1414	(1) 2x6'S 4'-0" LONG CENTER MOUNTED
1B	GRAB BAR 36"	812-001-36		
1C	GRAB BAR 24"	812-001-24		
2	TOILET TISSUE DISPENSER, DOUBLE, RECESSED	5412	BRADLEY 1-800-BRADLEY	(2) 2x6'S 2'-6" LONG
3	SANITARY NAPKIN RECEPTICLE, RECESSED	4731-15	BRADLEY 800-272-3539	
4A	HAND DRYER, RECESSED, ADA, WHITE - OTHER COLORS AT ADTN COST	RA5Q-974	UNIVERSAL MFG. 800-821-1414	(1) 2x10 1'-4" LONG
4B	TOWEL DISPENSER & WASTE RECEPTACLE, INDIVIDUAL, RECESSED	2441 3251	BRADLEY 800-272-3539	
4C	TOWEL DISPENSER & WASTE RECEPTACLE, COMBINATION, RECESSED	2291	BRADLEY 800-272-3539	
5	MIRROR,ANGLE FRAME	#781 24"x36"	UNIVERSAL MFG. 800-821-1414	
6A	SOAP DISPENSER, COUNTER MOUNTED, 6" SPOUT	6326-68	UNIVERSAL MFG. 800-821-1414	
8B	SOAP DISPENSER, WALL-MOUNTED	6542	UNIVERSAL MFG. 800-821-1414	
7	-	-	-	-
8	DIAPER CONTAINER (OPTIONAL)	-	BY OWNER	

NOTES

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

5 A4.0 **RESTROOM ACCESSORY SCHEDULE**

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael B. Ebanks
Registered Architect
3111 MacDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: RP
STD ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 6" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCHES
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748
SITE ID: 041-0084

SHEET NO. A4.0
RESTROOM PLAN

041-0084-00-0

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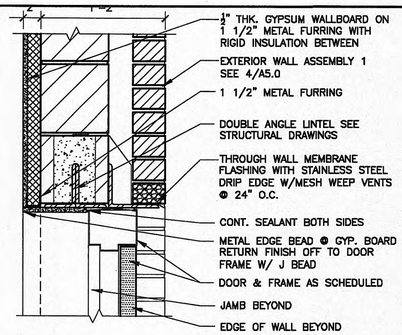
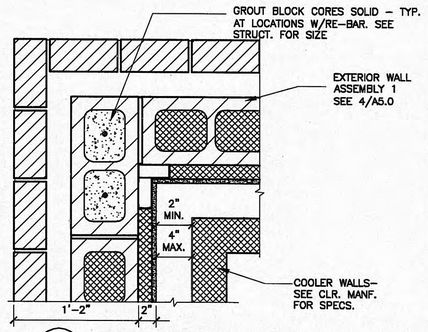
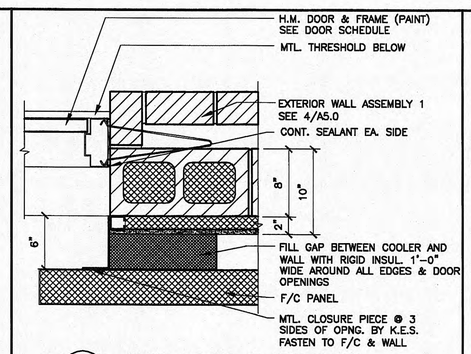


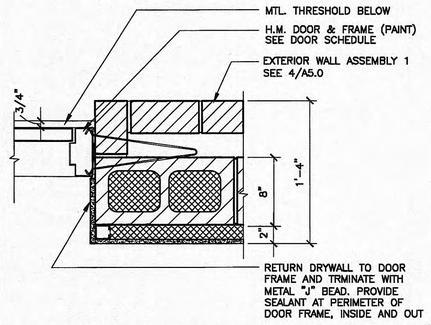
1 A4.1 **SECTION @ DOOR HEAD** — 1 1/2" = 1'-0" — A04208A1



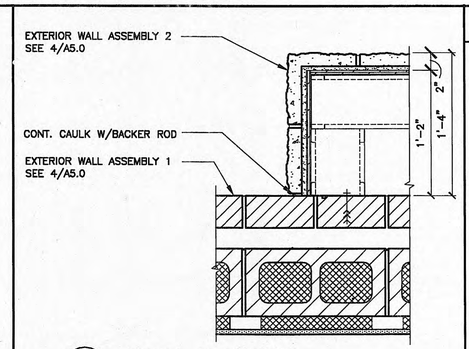
2 A4.1 **CORNER DETAIL** — 1 1/2"=1'–0" — A11408A4



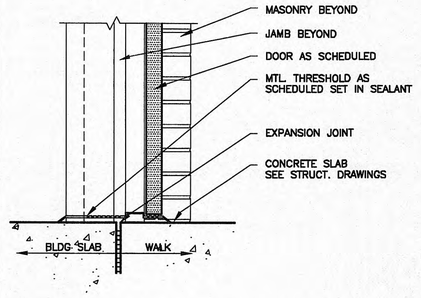
3 A4.1 **JAMB DETAIL @ F/C DOOR** — 1 1/2"=1'–0" — A04228A6



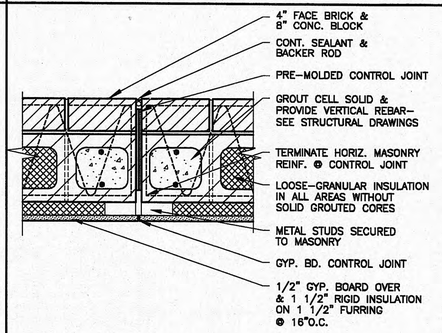
4 A4.1 **EXT. DOOR JAMB DETAIL** — 1 1/2"=1'–0" — A04228A5



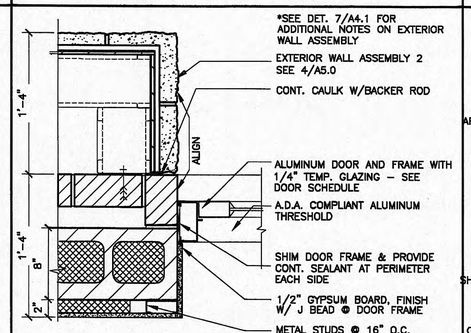
5 A4.1 **DETAIL @ ARCADE** — 1 1/2"=1'–0" — A0852_B6



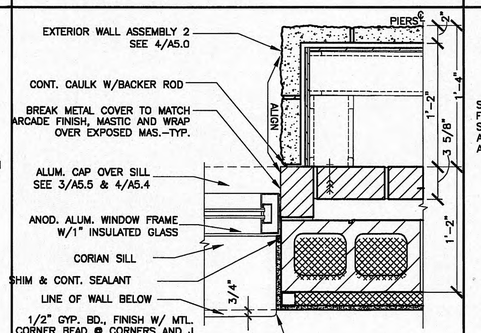
6 A4.1 **SECTION @ DOOR SILL** — 1 1/2" = 1'–0" — A04208A3



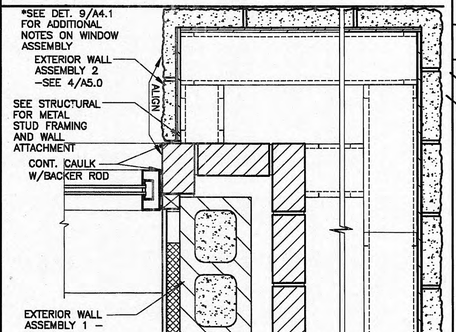
7 A4.1 **CONTROL JOINT DETAIL** — 1 1/2"=1'–0" — A07908A1



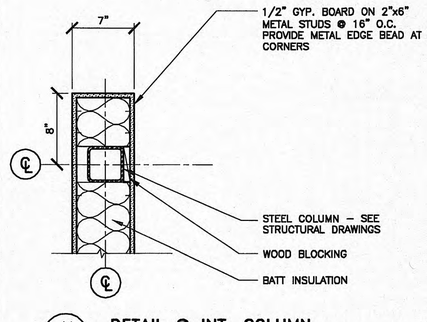
8 A4.1 **DOOR JAMB DETAIL @ ARCADE** — 1 1/2"=1'–0" — A0852_B7



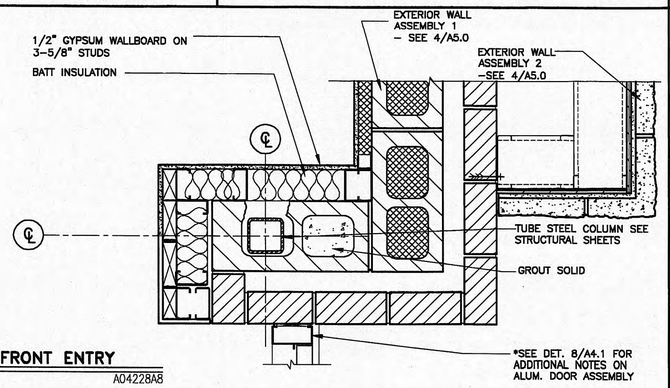
9 A4.1 **WINDOW JAMB DETAIL @ ARCADE** — 1 1/2"=1'–0" — A0852_A4



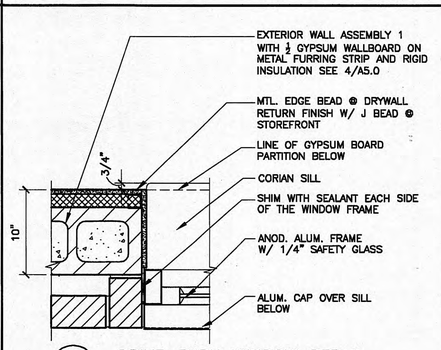
10 A4.1 **CORNER DETAIL @ ARCADE** — 1 1/2"=1'–0" — A0852_A5



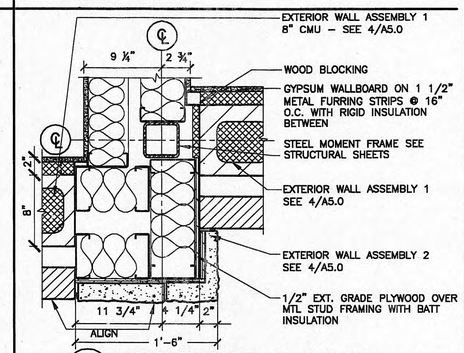
11 A4.1 **DETAIL @ INT. COLUMN** — 1 1/2"=1'–0" — A0852_A6



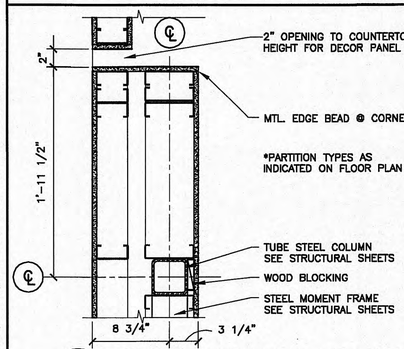
12 A4.1 **JAMB DETAIL @ FRONT ENTRY** — 1 1/2"=1'–0" — A04228A8



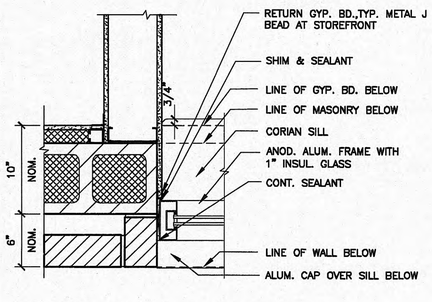
13 A4.1 **DRIVE–THRU WINDOW DETAIL** — 1 1/2"=1'–0" — A0422SA6



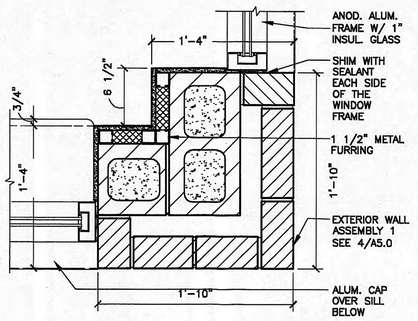
14 A4.1 **CORNER DETAIL @ HEARTH** — 1 1/2"=1'–0" — A0852_A5



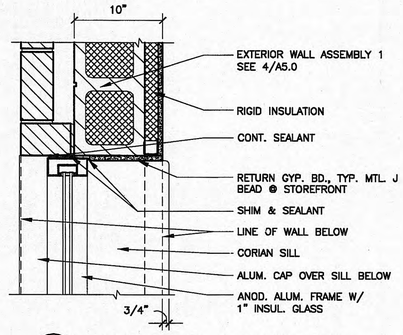
15 A4.1 **WALL/COLUMN DETAIL @ K–BRACE** — 1 1/2"=1'–0" — A0421WW1



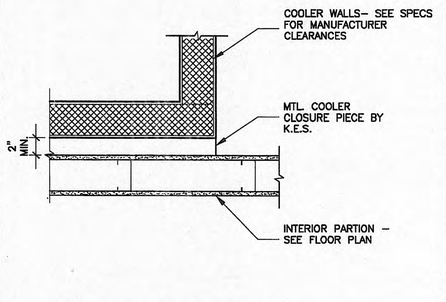
16 A4.1 **WINDOW JAMB DETAIL** — 1 1/2"=1'–0" — A0422SA4



17 A4.1 **JAMB DETAIL @ CORNER** — 1 1/2"=1'–0" — A0852_A7



18 A4.1 **JAMB DETAIL @ CREW ROOM** — 1 1/2"=1'–0" — A0852SB5



19 A4.1 **DETAIL @ COOLER** — 1 1/2"=1'–0" — A1140WB1

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REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael B. Ebanks
Registered Architect
2111 Middlefield Drive
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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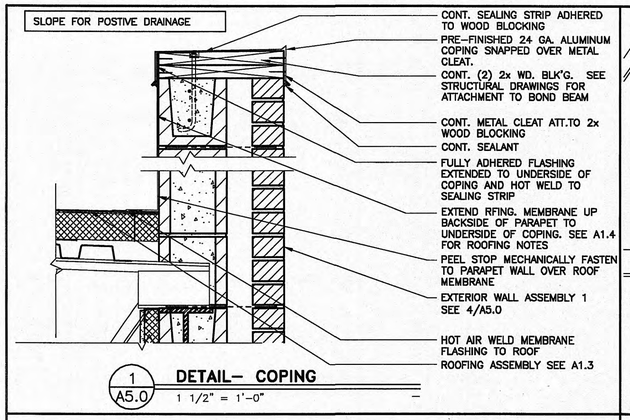
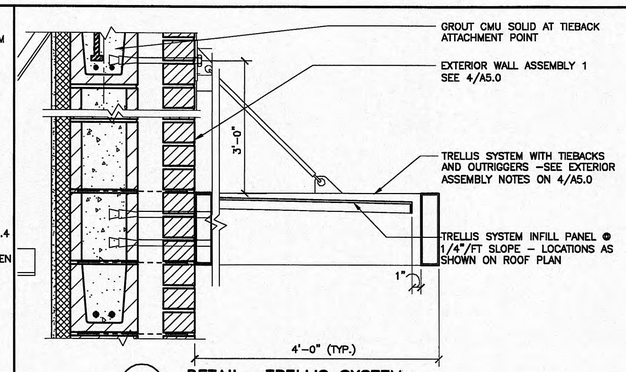
DRAWN BY: RP
STD. ISSUE DATE: JAN 2008
REVISED BY: MR/TW
DATE ISSUED: 1/20/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES
SITE ID: 041–0084
SITE ADDRESS: 1705 South Rome Street, Harriman, TN 37748

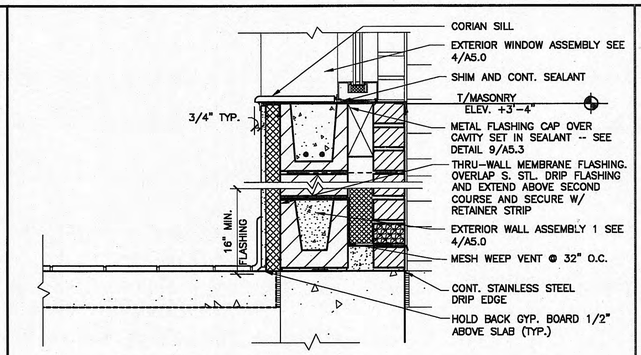
SHEET NO.: 041–0084–00–0
A4.1
PLAN DETAILS



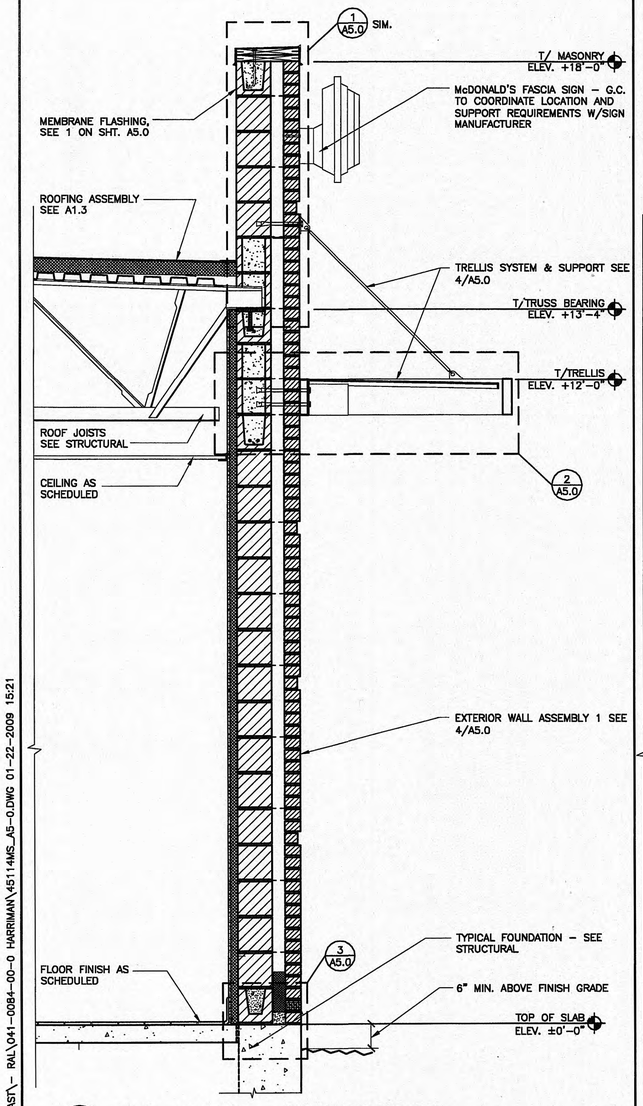
1 A5.0 **DETAIL– COPING**
1 1/2" = 1'–0"



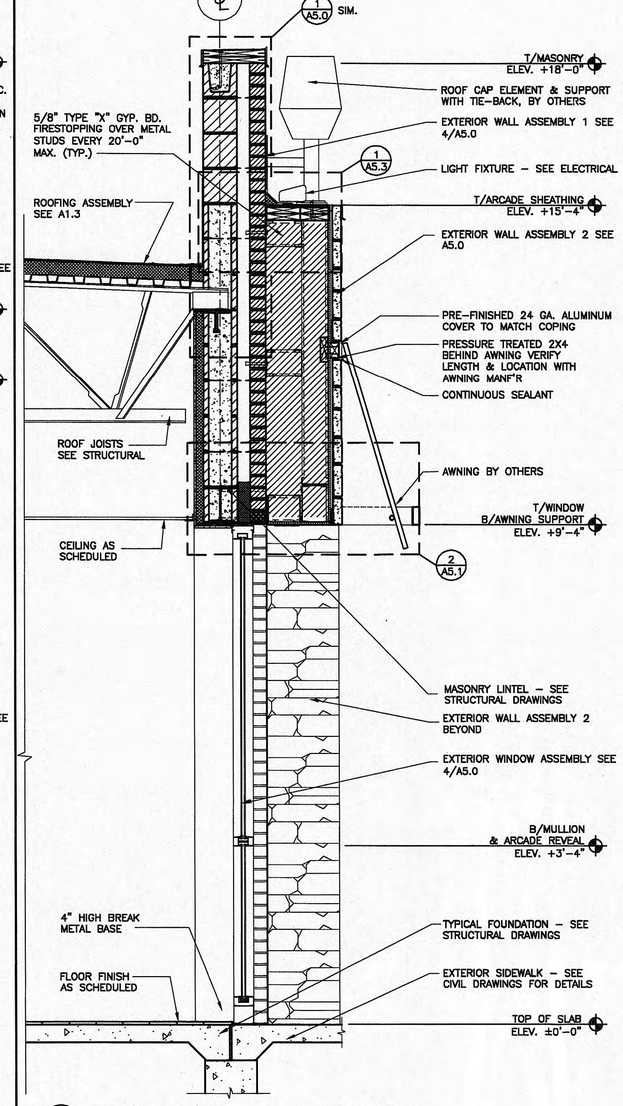
2 A5.0 **DETAIL– TRELLIS SYSTEM**
1 1/2" = 1'–0"



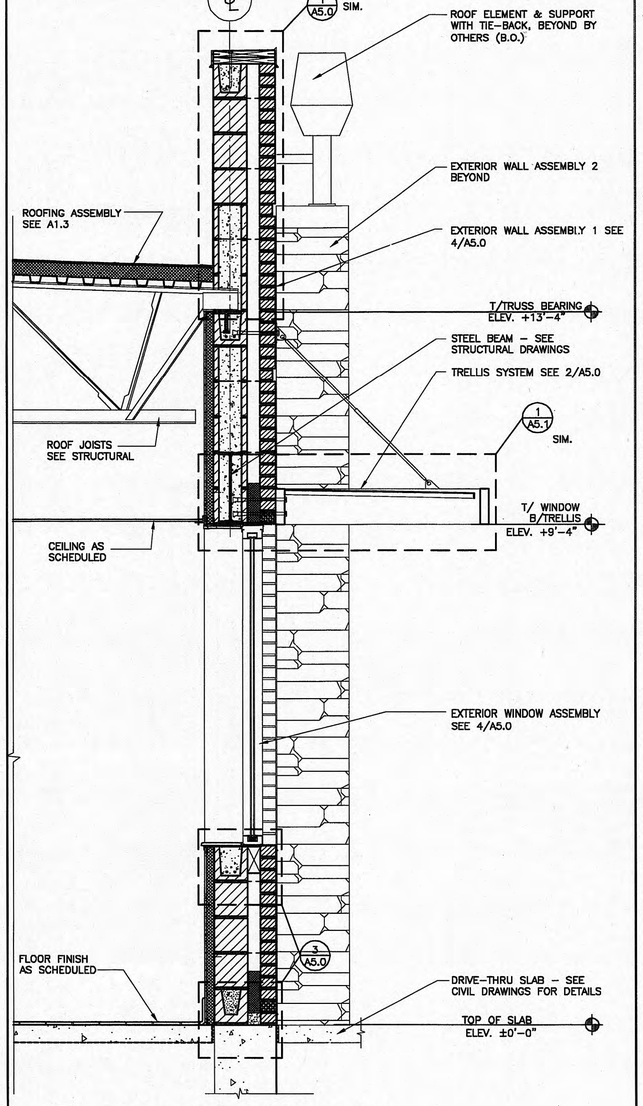
3 A5.0 **DETAIL – TYP. WALL SILL**
1 1/2" = 1'–0"



5 A5.0 **WALL SECTION – SUPPORT/KITCHEN**
3/4" = 1'–0"



6 A5.0 **WALL SECTION – VESTIBULE/ENTRY**
3/4" = 1'–0"



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

EXTERIOR WALL ASSEMBLY 1

FROM EXTERIOR TO INTERIOR

FULL WALL HEIGHT ELEMENTS:

1. 4" FACE BRICK, PROVIDE NON–CORROSIVE METAL HORIZONTAL MASONRY REINFORCING @ 16" VERTICALLY AND 32" HORIZ.. PROVIDE WEEP HOLES 24" O.C. AT ALL FLASHING LOCATIONS.

   8"CONCRETE BLOCK WITH INTEGRAL WATER REPELLENT (W.R.GRACE DRY–BLOCK OR EQUAL), SMOOTH FINISH. PROVIDE NON–CORROSIVE METAL HORIZONTAL MASONRY REINFORCING @ 16" VERTICALLY.

   MORTAR SHALL CONTAIN AN INTEGRAL WATER REPELLENT ADMIXTURE.

   THROUGH–WALL FLASHING TO BE EPDM OVER A STAINLESS STEEL DRIP EDGE EXTENDING BEYOND EXTERNAL FACE OF BRICK. FLASHING SHALL RUN 16" MIN. VERTICALLY ON INTERIOR FACE OF BLOCK.

   APPLY A CLEAR PENETRATING WATER REPELLENT SURFACE TREATMENT CONTAINING SILOXANE ON EXTERIOR FACE OF ALL BRICK (SEE SPECIFICATIONS).

   SEE STRUCTURAL DRAWINGS FOR LOCATION OF CMU WITH GROUTED CELLS AND BOND BEAM LOCATIONS.

   POUR GRANULAR INSULATION INTO ALL UNGROUTED CMU CAVITIES.

ELEMENTS BELOW THE ROOF DECK ONLY:

2. 1 1/2 METAL "Z" FURRING @ 16" O.C. (WITH CONTINUOUS DRAFTSTOP/FIRESTOP BLOCKING AT FINISH CEILING LEVEL. (3 5/8 METAL STUDS AT LOCATIONS INDICATED ON FLOOR PLAN)
3. RIGID INSULATION (R–VALUE = 7.5)
4. "CERTAINTEED MEMBRAIN" SMART VAPOR RETARER (SEMI–VAPOR PERMEABLE) BY CERTAINTEED OR EQUAL.
5. WALL BASE: 1/2" CEMENT BOARD 6" IN HEIGHT. ABOVE BASE EXTENDING TO STRUCTURE ABOVE: 1/2" USG "SHEETROCK BRAND MOLD TOUGH" GYPSUM PANELS OR 1/2" PLYWOOD BACKUP AS INDICATED ON THE ROOM FINISH SCHEDULE.

   ANY GYPSUM PANEL SUBSTITUTIONS MUST SCORE 10 PER ASTM D3273.
6. SEE FINISH & PARTITION SCHEDULE.

EXTERIOR WALL ASSEMBLY 2

FROM EXTERIOR TO INTERIOR

1. CULTURED STONE VENEER OVER MORTAR SETTING BED OVER GALVANIZED METAL LATH OVER 2 LAYERS OF WEATHER–RESISTANT BARRIER ON EXTERIOR PLYWOOD. (SEE ELEVATION NOTES FOR MANUFACTURER AND MODEL). INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. 6" 18 GAUGE METAL STUD FRAMING @ 16" O.C. ANCHORED TO EXTERIOR WALL ASSEMBLY 1 – SEE STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS
3. 5/8" TYPE 'X' GYPSUM BOARD FIRESTOPPING EVERY 20'–0" HORIZONTAL TYPICAL.

ALTERNATE EXT. WALL ASSEMBLY 2

FROM EXTERIOR TO INTERIOR (SEE DETAIL 2/A5.2)

1. 7/8" MIN. THICK HIGH–IMPACT RESISTANT, MOISTURE DRAINAGE EXTERIOR FINISH STUCCO SYSTEM. MEDIUM TEXTURED STUCCO FINISH COAT OVER BASE COAT, OVER MANUFACTURER'S RECOMMENDED MESH OVER MOISTURE BARRIER, OVER A CEMENT BOARD SUBSTRATE MEETING ASTM C–1325 TYPE A EXTERIOR, OVER EXTERIOR GRADE PLYWOOD SHEATHING. THE ENTIRE ASSEMBLY SHALL BE INSTALLED PER LOCAL CODES AND MANUFACTURERS RECOMMENDED SPECIFICATIONS.
2. 6" 18 GAUGE METAL STUD FRAMING @ 16" O.C. ANCHORED TO EXTERIOR WALL ASSEMBLY 1 – SEE STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS.
3. ALTERNATE FRAMING SYSTEM: PRESSURE TREATED 2x6 WOOD STUD FRAMING.

EXTERIOR WINDOW ASSEMBLY

(STOREFRONT & ENTRANCE SYSTEM)

1. ANODIZED ALUMINUM FRAME, THERMALLY BROKEN WITH HEAD RECEIVER CHANNEL & STEEL STIFFENER (REINFORCEMENT)
2. IMPACT RESISTANT GLAZING: 1/4" LAMINATED, TEMPERED GLASS, 0.90" INNER SHATTER–PROOF MEMBRANE & 1/4" LAMINATED, TEMPERED GLASS.
3. PROVIDE FLASHING AT HEAD & SILL – CONTINUOUS STRUCTURAL SILICONE SEALANT, INSIDE AND OUT AT PERIMETER OF WINDOW FRAME.
4. PROVIDE 2–PIECE METAL CAP @ C.M.U. SILL
5. CORIAN SILL AT INTERIOR
6. COMPLIANCE: RAW GLASS USED IN CONSTRUCTION OF "SECUR–TEM+ POLY" OR EQUAL IN COMPLIANCE W/ASTM C1036–91. THE LAMINATE MEETS QUALITY STANDARDS OF ASTM 1349. PRODUCT MEETS REQUIREMENTS OF ANSI 297.1, CPSC 16 CFR 1201 (CATEGORY I & II) EXCEEDS U/L 972. CHEM–TEM GLASS MEETS THE REQUIREMENTS OF ASTM C1422. *(FOR DRIVE–THRU WINDOWS)

TRELLIS SYSTEM

1. TRELLIS INFORMATION SHOWN IN CONSTRUCTION DOCUMENTS IS FOR DESIGN INTENT ONLY. APPROVED MANUFACTURERS BELOW SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FINAL DESIGN.
2. FASCIAS: CONT. 2X8 CLEAR ANODIZED ALUMINUM TUBE – PROVIDE CLOSURE PIECE WHERE TUBE ENDS ARE EXPOSED
3. OUTRIGGERS: CLEAR ANODIZED 2X8 ALUMINUM TUBE
4. TIEBACKS: ANODIZED ALUMINUM THREADED RODS BY MANUFACTURER – LOCATIONS AS INDICATED ON ROOF PLAN. FINAL LOCATIONS AND QUANITY SHALL BE AS INDICATED ON TRELLIS DESIGNER OF RECORD INSTALLATION DRAWINGS.
5. WHERE INDICATED ON ROOF PLAN, PROVIDE ANODIZED ALUMINUM PANEL INFIL TO PROVIDE POSITIVE SLOPE FOR DRAINAGE.
6. SYSTEM SHALL ALLOW FOR MOVEMENT AT CONTROL JOINTS AND FOR MOVEMENT OF EXTERIOR WALL SYSTEM ON WHICH THE TRELLIS IS MOUNTED.
7. STRUCTURAL ATTACHMENTS & LOAD CALCULATIONS SHALL BE FURNISHED BY TRELLIS SYSTEM DESIGNER OF RECORD. SUPPLIERS DESIGNER OF RECORD SHALL DESIGN PER PREVAILING CODES.
8. TRELLIS SYSTEM MAY BE SELECTED FROM ONE OF THE SUPPLIERS LISTED BELOW. EQUIVALENT SYSTEMS FROM NON–APPROVED SUPPLIERS SHALL BE SUBMITTED TO McDONALD'S US RESTAURANT DESIGN & CONSTRUCTION FOR REVIEW AND APPROVAL OF DESIGN INTENT. ALL NON–APPROVED SUPPLIERS SHALL MEET ALL OF THE REQUIREMENTS OF THIS SECTION.
9. TRELLIS SYSTEM MANUFACTURER SHALL PROVIDE INSTALLER WITH INSTALLATION INSTRUCTIONS. MANUFACTURER SHALL DESIGN TRELLIS IN ACCORDANCE WITH THE WALL SYSTEM AND BLOCKING AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
10. TRELLIS INSTALLER SHALL NOTIFY TRELLIS DESIGNER OF RECORD, McDONALD'S ACM, G.C. AND ARCHITECT OF ANY DEFICIENCIES THAT WOULD NOT ALLOW FOR THE PROPER INSTALLATION OF THE TRELLIS. TRELLIS SHALL NOT TO BE INSTALLED UNTIL DEFICIENCIES HAVE BEEN CORRECTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE TRELLIS MANUFACTURERS INSTALLATION GUIDELINES.

Greenheck
PO Box 410
Schofield, WI 54476
www.greenheck.com
Chris Kirkeeng
(715) 355–3942

Security Lighting
1085 Johnson Drive
Buffalo Grove, IL 60089
www.securitylighting.com
Steve Friedman
1–800–544–4848

FOUNDATION AND PERIMETER INSULATION:

SEE STRUCTURAL DRAWINGS FOR FOUNDATION AND SLAB DETAILS.

4 A5.0 **EXTERIOR WALL SYSTEMS**

NO.	DESCRIPTION	DATE	BY
REV			

PREPARED BY:
Michael B. Ebanks
Registered Architect
2111 McDonald's Drive
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	STD. ISSUE DATE
RP	JAN 2008
REVIEWED BY	DATE ISSUED
MR/TW	1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG
DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES

SITE ID	SITE ADDRESS
041–0084	1705 South Roane Street, Harriman, TN 37748

SHEET NO.
041–0084–00–0
A5.0
WALL SECTIONS

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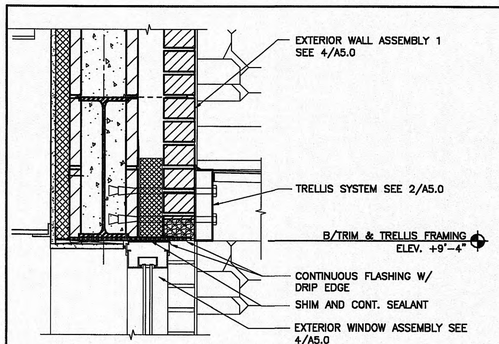
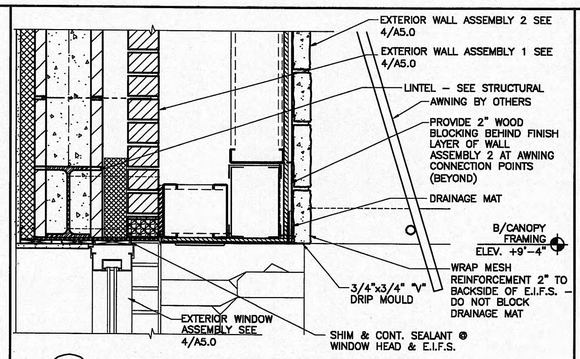
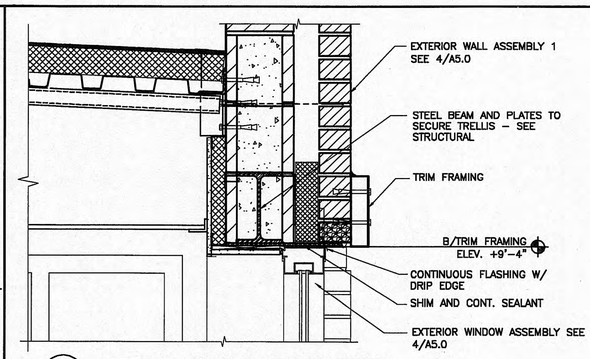


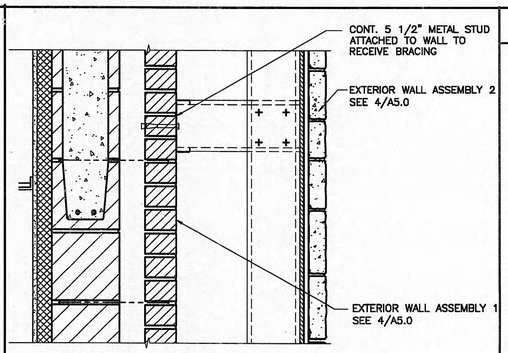
1 A5.1 **TRELLIS AT WINDOW HEAD**
1 1/2" = 1'-0"



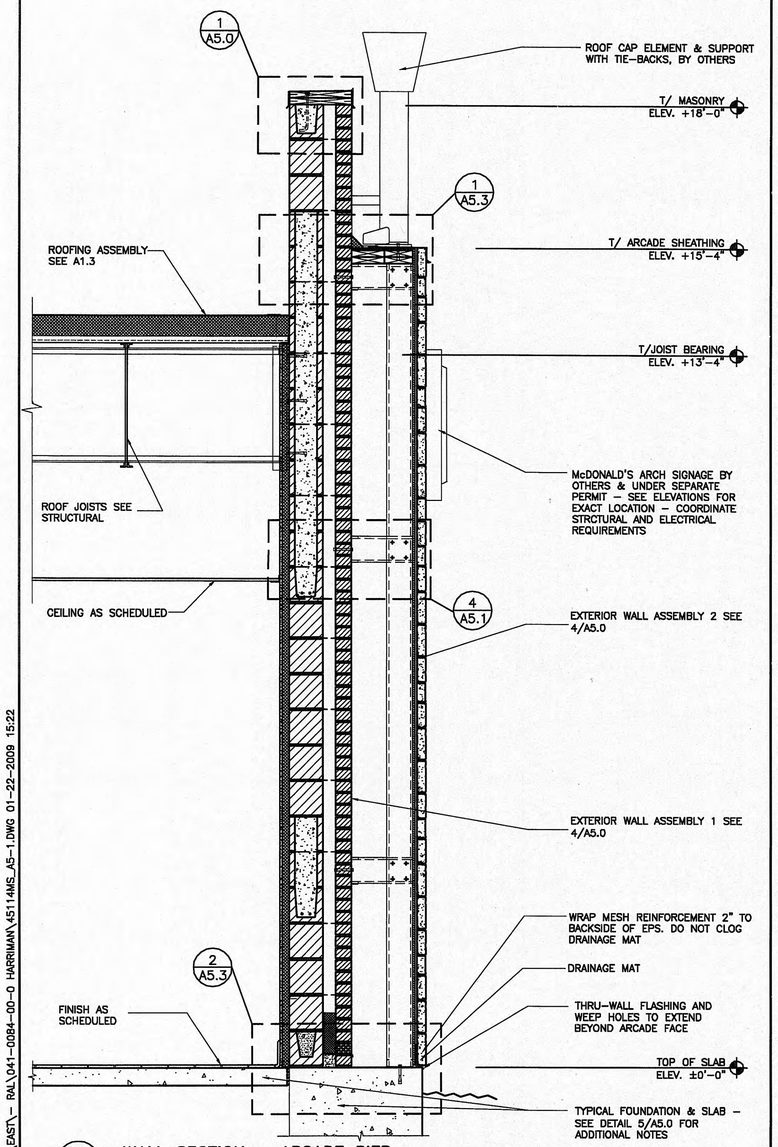
2 A5.1 **DETAIL– WINDOW HEAD @ ARCADE**
1 1/2" = 1'-0"



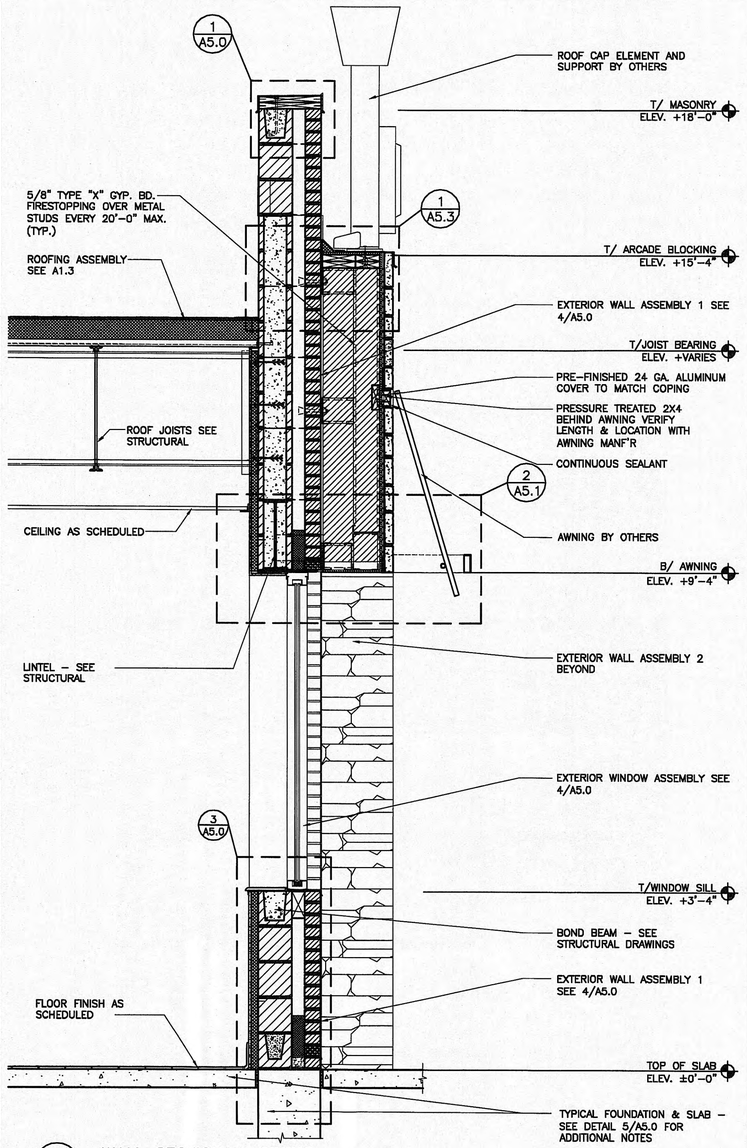
3 A5.1 **DETAIL – TRIM @ FRONT ENTRY**
1 1/2" = 1'-0"



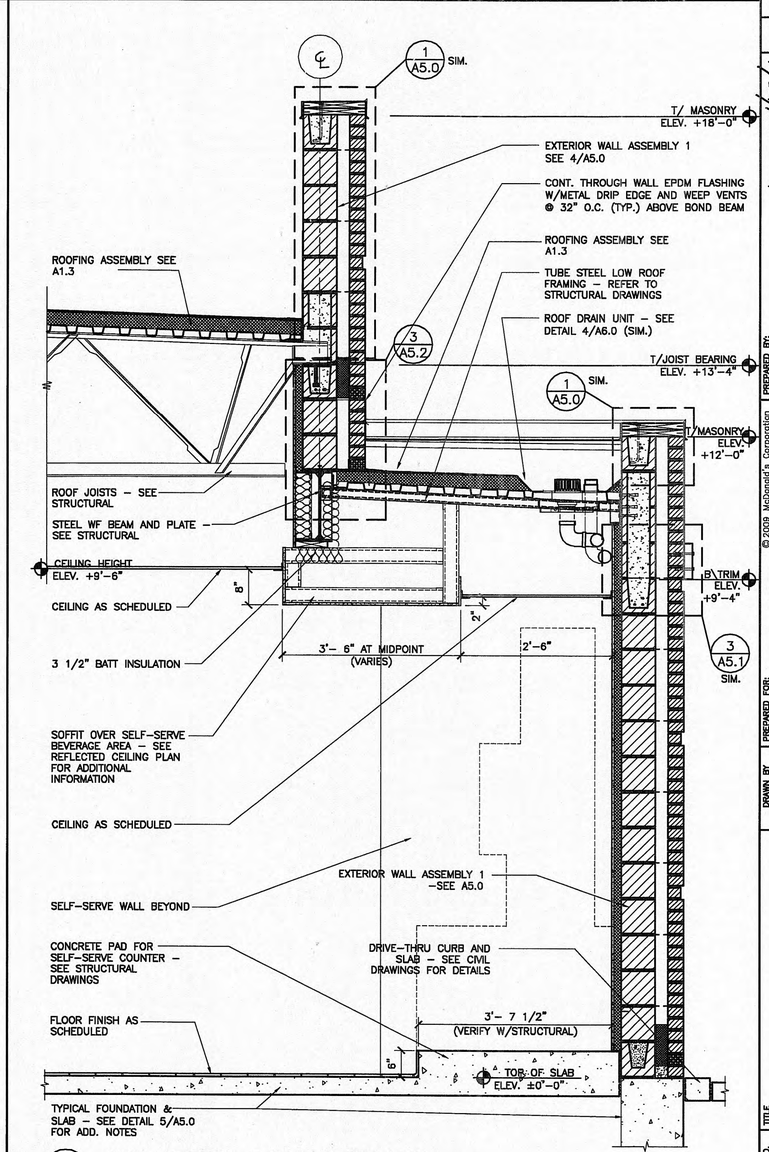
4 A5.1 **DETAIL – @ SIDEWALL**
1 1/2" = 1'-0"



5 A5.1 **WALL SECTION – ARCADE PIER**
3/4" = 1'-0"



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



7 A5.1 **WALL SECTION @ SELF–SERVE AREA**
3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael B. Ebanks
Registered Architect
2151 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE	REVIEWED BY	DATE ISSUED
RP	JAN 2008	MR/TW	1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG
DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES
SITE ID 041-0084
SITE ADDRESS 1705 South Rome Street, Harriman, TN 37748

SHEET NO.
041–0084–00–0
A5.1
WALL SECTIONS

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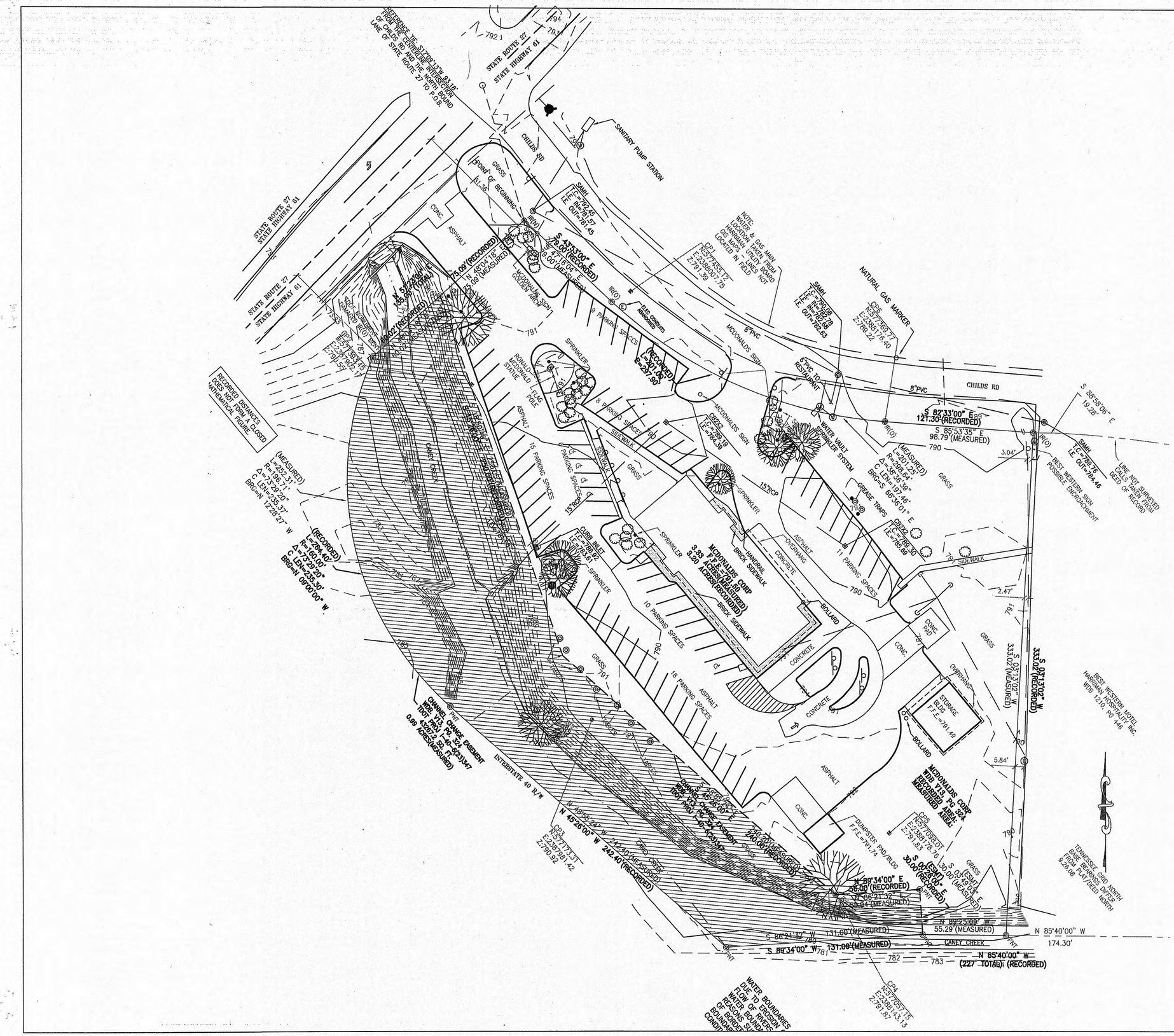

PARKING INFORMATION

TOTAL SPACES						
75 +RV PARKING	-	SPACES	-	X	-	@ 0 °
	3	HANDICAP SPACES	9'	X	19'	@ 60 °
	-	SPACES	-	X	-	@ 45 °
	72	SPACES	9'	X	19'	@ 60 °
	-	SPACES	-	X	-	@ 90 °

UTILITY INFORMATION

	SIZE	TYPE	LOCATION
SANITARY SEWER	6"	LINE ON CHILDS ROAD	
WATER	2"	GALVANIZED LINE ALONG CHILDS ROAD	
STORM SEWER	SITE DRAINS TO CANEY CREEK		
ELECTRIC	OVERHEAD LINE ALONG CHILDS ROAD		
GAS	LINA ALONG OTHER SIDE OF CHILDS ROAD		

SURVEY INFORMATION

PREPARED BY: SURVEYOR
ADDRESS
ADDRESS
PHONE

DATE OF SURVEY: X DATE OF MAP: X

PLAN SCALE: 1" =30'

STREET ADDRESS
1705 SOUTH ROANE ST.

CITY	STATE
HARRIMAN	TN 37748

COUNTY
ROANE

TAX PARCEL NUMBER	LOCATION CODE NUMBER
035LA002.00	041-0084

CSD FILENAME:
08466

REV	DATE	DESCRIPTION	BY	ISSUE/REF
A	01-06-09	ISSUE FOR PERMIT	YAG	

BRITT PETERS AND ASSOCIATES INC.
consulting engineers

550 S. Main Street
Suite 301
Greenville, SC 29601
(864) 271-8869
Fax (864) 233-5140
www.brittpeters.com

PLAN APPROVAL

SIGNATURE (2 REQUIRED)	DATE
REGIONAL MGR.	
REGIONAL DEV. DIRECTOR	
REGIONAL CONSTRUCTION MGR.	
REGIONAL REAL ESTATE MGR.	

CO-SIGN SIGNATURES

AREA CONSTRUCTION MGR.	
CONTRACTOR	

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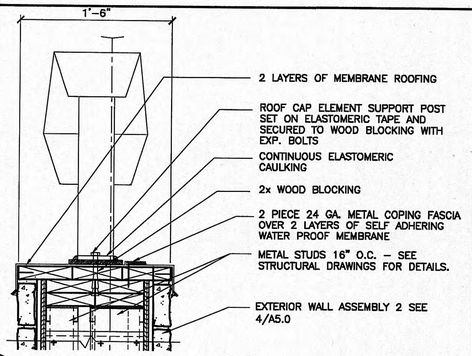
OFFICE: RALEIGH REGION

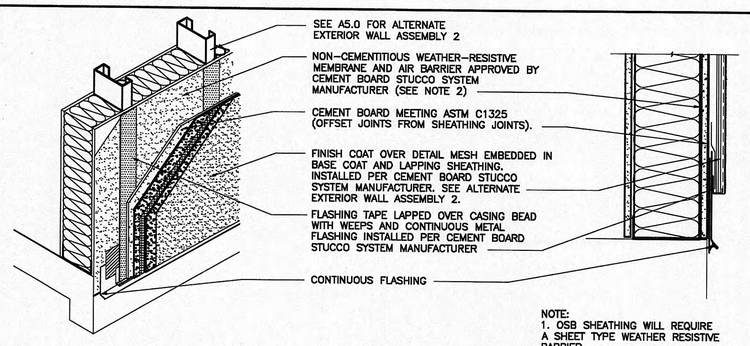
ADDRESS: 4601 SIX FORKS ROAD - SUITE 200 - RALEIGH, N.C. 27609

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

C-2
TOPOGRAPHIC SURVEY



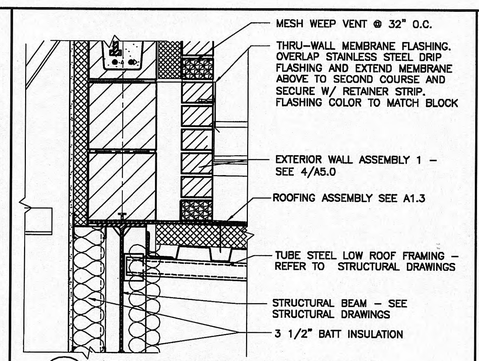
1 A5.2 **DETAIL – HEARTH CAP**
1 1/2" = 1'-0"



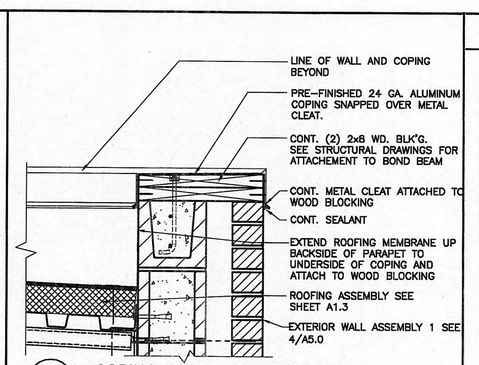
NOTE:
1. OSB SHEATHING WILL REQUIRE A SHEET TYPE WEATHER RESISTIVE BARRIER.

2. SHEET TYPE WEATHER RESISTIVE MEMBRANES SHALL BE INSTALLED IN A WEATHER BOARD FASHION

2 A5.2 **ALTERNATE EXT. WALL ASSEMBLY 2**
NOT TO SCALE



3 A5.2 **FLASHING DETAIL @ LOW ROOF**
SCALE : 1 1/2 = 1'-0"



4 A5.2 **COPING DETAIL @ LOW ROOF**
1 1/2" = 1'-0"

5 A5.2 **WALL SECTION – "HEARTH" WALL/BEVERAGE BAR**
3/4" = 1'-0"

6 A5.2 **WALL SECTION – FRONT ENTRANCE**
3/4" = 1'-0"

7 A5.2 **WALL SECTION – FRONT ENTRANCE**
3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael B. Ebanks
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2111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR: McDonald's USA, LLC

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DRAWN BY: RP	STD ISSUE DATE JAN 2008
REVIEWED BY MR/TW	DATE ISSUED 1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION	SITE ADDRESS
8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES	1705 South Rosma Street, Harriman, TN 37748
SITE ID 041-0084	

SHEET NO.
041-0084-00-0
A5.2
WALL SECTIONS

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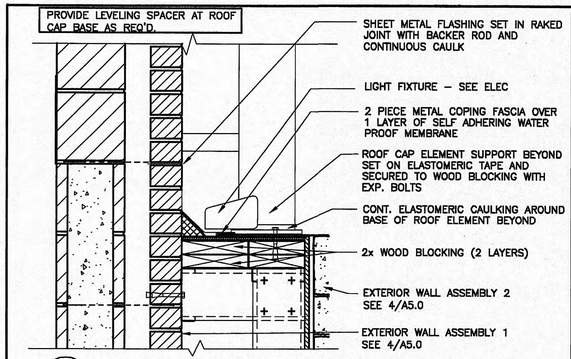
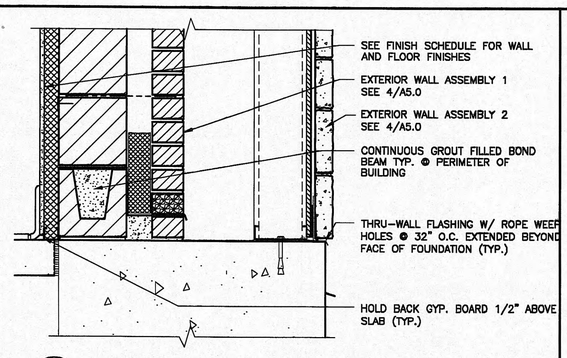
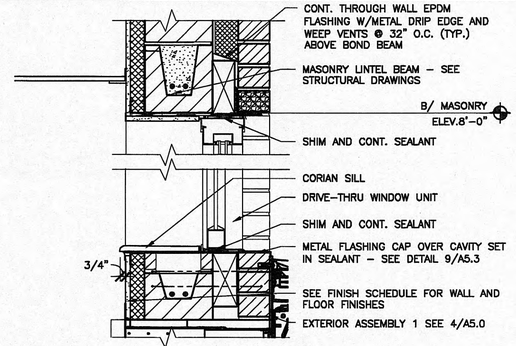


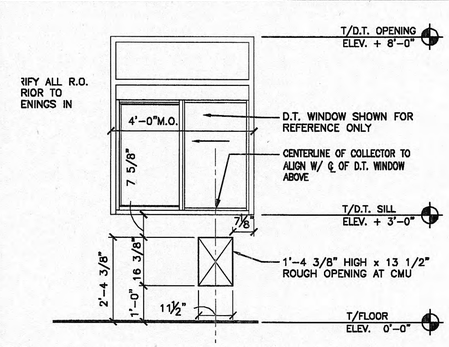
1 A5.3 **SECTION @ TOP OF ARCADE**
1 1/2" = 1'–0"



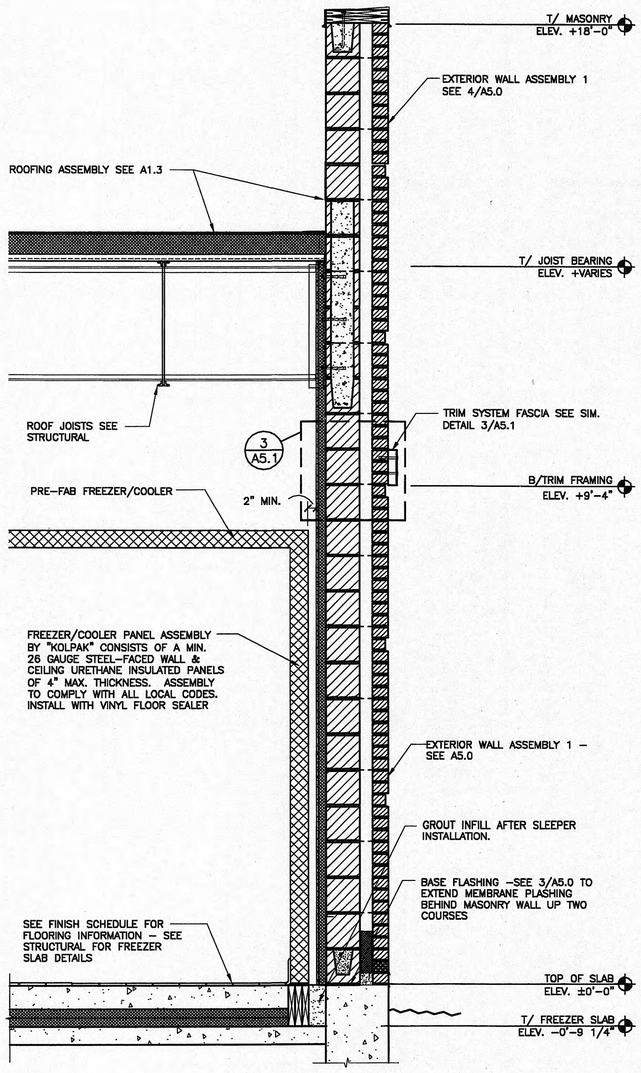
2 A5.3 **SECTION @ ARCADE FOOTING**
1 1/2" = 1'–0"



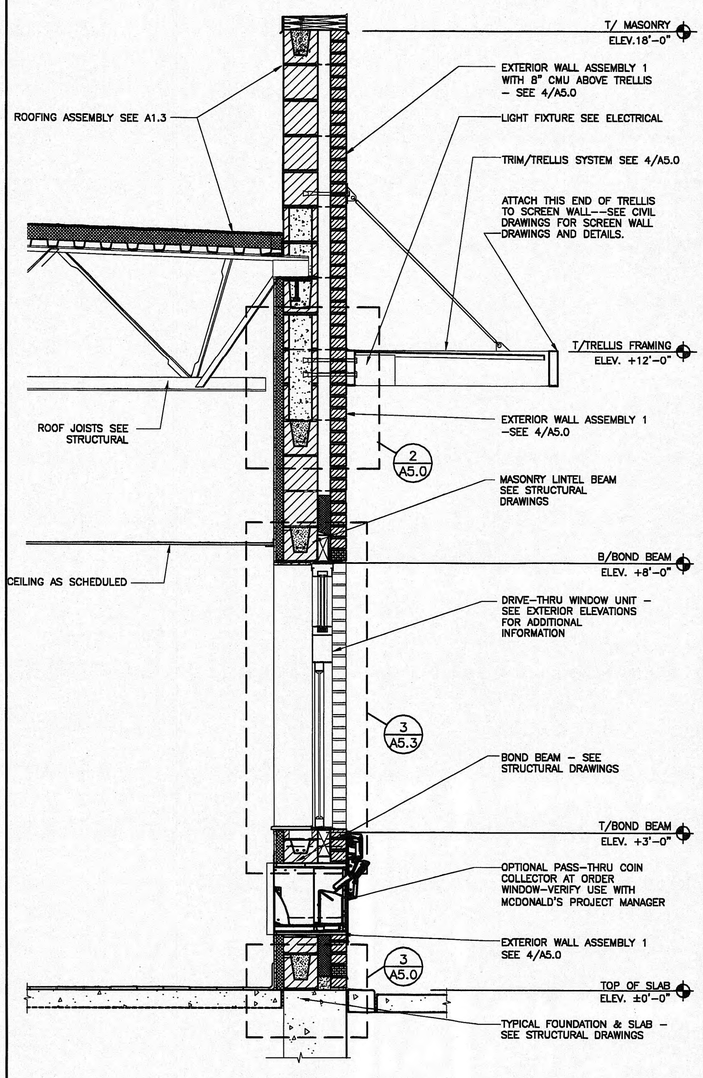
3 A5.3 **SECTION @ DRIVE–THRU WINDOW**
1 1/2" = 1'–0"



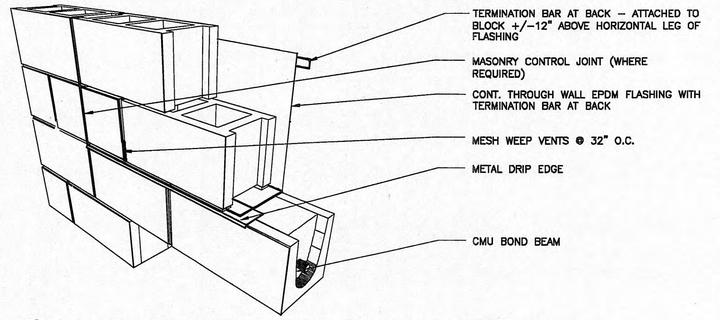
4 A5.3 **PASS THRU COLLECTOR @ MASONRY**
1/2" = 1'–0" INTERIOR ELEVATION



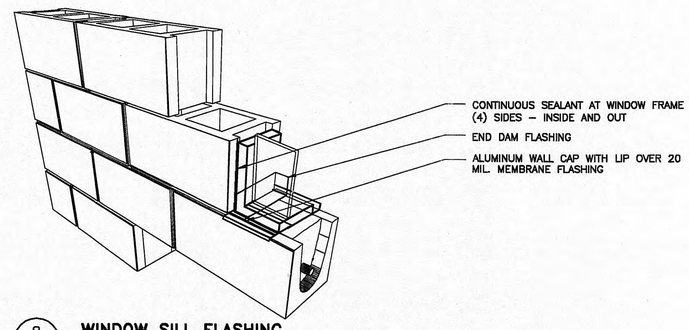
5 A5.3 **WALL SECTION – FRZR./COOLER**
3/4" = 1'–0"



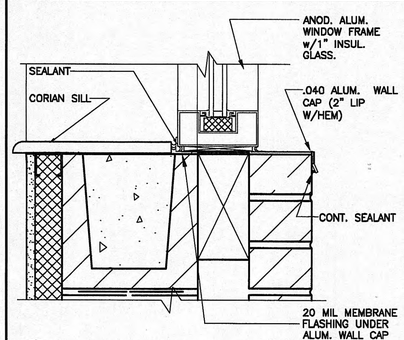
6 A5.3 **WALL SECTION– PRESENTER'S WINDOW**
3/4" = 1'–0"



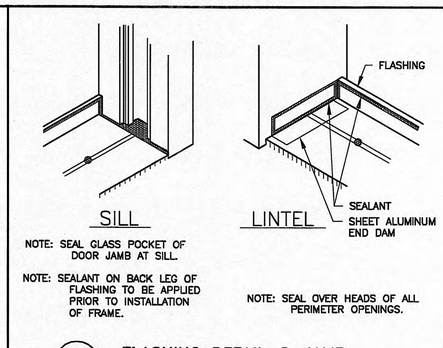
7 A5.3 **BOND BEAM FLASHING DETAIL @MASONRY OPENING**
N.T.S.



8 A5.3 **WINDOW SILL FLASHING**
N.T.S.



9 A5.3 **FLASHING @ STOREFRONT**
3"=1'–0" A04228B7



10 A5.3 **FLASHING DETAIL @ JAMB**
1 1/2"=1'–0" A04228B0

REV | DATE | DESCRIPTION | BY

PREPARED BY:
Michael B. Ebanks
Registered Architect
2111 McDonald's Drive
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRWN BY RF | STD ISSUE DATE JAN 2008 | REVIEWED BY MA/TW | DATE ISSUED 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES
SITE ID: 041–0084 | SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO. 041–0084–00–0
A5.3
WALL SECTIONS

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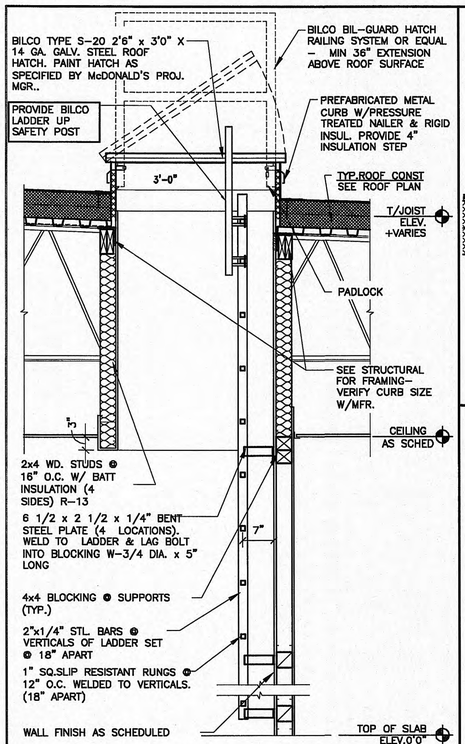
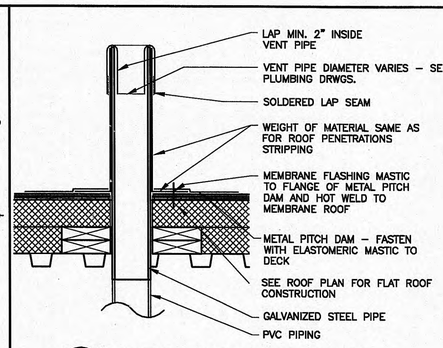
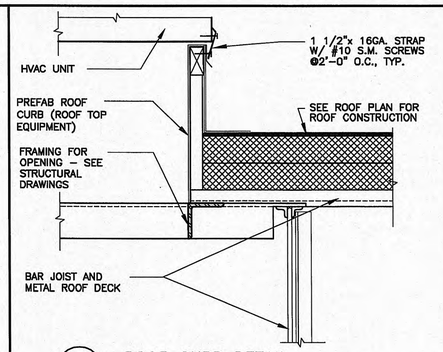


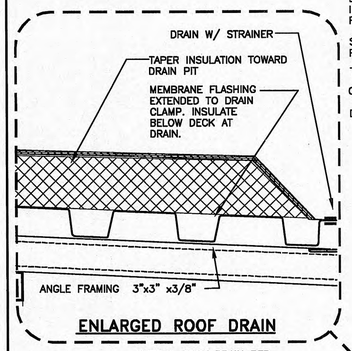
1 A6.0 **SECTION @ INTERIOR LADDER**
3/4"=1'-0" A0550WA2



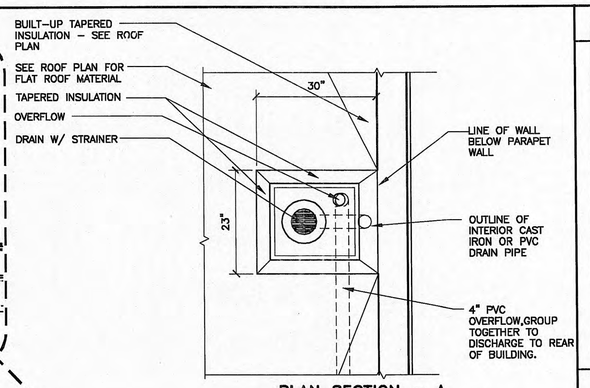
2 A6.0 **TYPICAL VENT PENETRATION**
1 1/2"=1'-0" A0770WA3



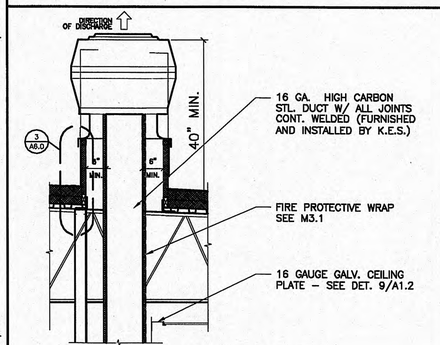
3 A6.0 **ROOF CURB DETAIL**
1 1/2"=1'-0" A0770WA1



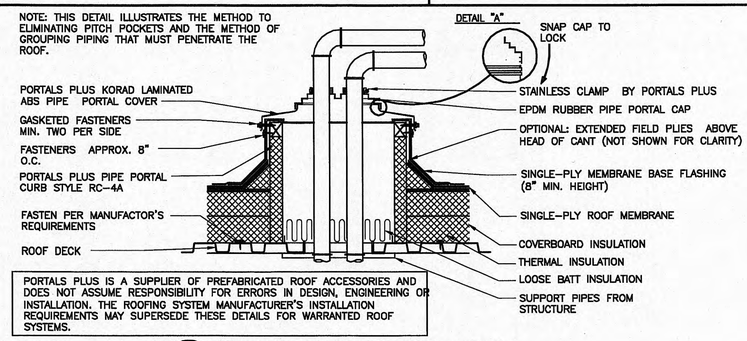
ENLARGED ROOF DRAIN
INSTALL ROOF DRAIN PER MANUF. SPEC'S



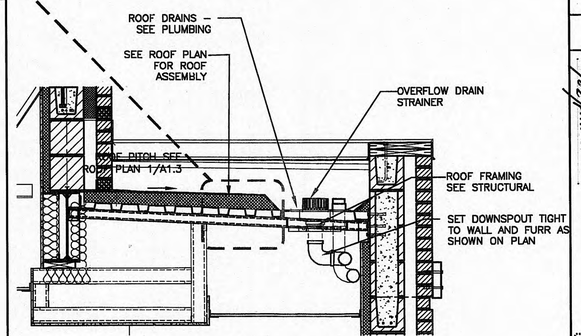
PLAN SECTION - A



5 A6.0 **DETAIL @ EXHAUST FAN**
1/2"=1'-0" *NOR12/98 A1550WA3



6 A6.0 **REFRIG LINE ROOF PENETRATION**
1 1/2"=1'-0" A0770WA3



4 A6.0 **ROOF DRAIN DETAIL**
3/4" = 1'-0" *NOR12/98 A1550WA3

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael B. Ebanks
Registered Architect
2111 McDonald's Drive
Oak Brook, IL 60523

DOOR HARDWARE

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

DOOR #1
1. CLOSER: LCN 4021 x 18
2. HINGES: OFFSET PIVOT ANSI -A-156.4 GRADE 1; PROVIDE EXPOSED PARTS OF CAST ALUMINUM ALLOY, AS SUPPLIED BY DOOR MANUFACTURER.
3. PUSH/PULL HANDLE: KAWNEER #CO-9 OR HAGER PUSH/PULL SET 164D/V/B.
4. PANIC HARDWARE: ADAMS RITE MFG. CO. 8800 SERIES WITH OUTSIDE CYLINDER ON 1 DOOR ONLY (FINISH TO MATCH STOREFRONT DOOR)
5. THRESHOLD: NATIONAL GUARD PRODUCTS, INC. SADDLE TYPE THRESHOLD 325, 36" WIDE x 1/2" RISE (ADA ACCESSIBLE).
6. WEATHER STRIPPING: PROVIDE COMPRESSION WEATHER STRIPPING AGAINST FIXED STOPS. AT OTHER EDGES PROVIDE SLIDING WEATHER STRIPPING RETAINED IN ADJUSTABLE STRIP MORTISED INTO DOOR EDGE. PROVIDE EPDM OR VINYL GASKET WEATHER STRIPPING IN BOTTOM DOOR RAIL ADJUSTABLE FOR CONTACT W/ THRESHOLD.
7. SIGN: MOUNT ONTO DOOR, TO READ "THIS DOOR MUST REMAIN UNLOCKED WHENEVER THE BUILDING IS OCCUPIED/DURING BUSINESS HOURS."

DOOR #2 (NOT USED)
1. CLOSER: LCN 4041 x 18
2. HINGES: OFFSET PIVOT ANSI -A-156.4 GRADE 1; BY DOOR MANUFACTURER.
3. PUSH/PULL HANDLE: HAGER PUSH/PULL SET 164D/V/B.

DOOR #3
1. CLOSER: LCN-4111H-CUSH
2. HINGES: HAGER ROTON 780-112HD, CLEAR ANODIZED FINISH.
3. PANIC HARDWARE: EXIT ONLY PANIC, NO CYLINDER OR VON DUPRIN 9975 NL (OPTIONAL)
4. DETEX: MODEL #2500-ACF DOOR ALARM.
5. WEATHER STRIPPING: NATIONAL GUARD 1-60A. PROVIDE COMPRESSION WEATHER STRIPPING AGAINST FIXED STOPS AT OTHER EDGES PROVIDING SLIDING WEATHER STRIPPING RETAINED IN ADJUST. STRIP MORTISED INTO DOOR EDGE. PROVIDE EPDM OR VINYL GASKET WEATHER STRIPPING IN BOTTOM DOOR RAIL ADJUST. FOR CONTACT WITH THRESHOLD.
6. DOOR SILENCERS: HAGER, QUANTITY = 3.
7. 6"x6" SECURITY FRAME VIEW WINDOW W/FLOP BY NATIONAL GUARD.
8. THRESHOLD: NATIONAL GUARD PRODUCTS, INC. SADDLE TYPE THRESHOLD 325DKB, 48" WIDE x 1/2" RISE (ADA ACCESSIBLE).
9. DOOR SWEEP: NATIONAL GUARD 101AV 48"
10. 12 INCH LATCH GUARD.

DOOR #3A
1. HINGES: HAGER ROTON 780-112HD, CLEAR ANODIZED FINISH.
2. LOCKSET: SCHLAGE DEAD BOLT LOCK B-661. OPTIONAL HINGE (HAGER ROTO BB1279 4 1/2 x 4 1/2 NRP)
3. PULL HANDLE: HAGER H-3-E.
4. WEATHER STRIPPING: NATIONAL GUARD 1-60A. PROVIDE COMPRESSION WEATHER STRIPPING AGAINST FIXED STOPS AT OTHER EDGES PROVIDING SLIDING WEATHER STRIPPING RETAINED IN ADJUST. STRIP MORTISED INTO DOOR EDGE. PROVIDE EPDM OR VINYL GASKET WEATHER STRIPPING IN BOTTOM DOOR RAIL ADJUST. FOR CONTACT WITH THRESHOLD.
5. DOOR SILENCERS: HAGER, QUANTITY = 3.
6. THRESHOLD: NATIONAL GUARD PRODUCTS, INC. SADDLE TYPE THRESHOLD 325DKB, 48" WIDE x 1/2 RISE (ADA ACCESSIBLE).
7. DOOR SWEEP: NATIONAL GUARD 101AV 48"

DOOR #4
1. CONTINUOUS HINGE: HAGER ROTON 780-112HD, CLEAR ANODIZED FINISH
2. CLOSER: LCN-4111H-CUSH.
3. THRESHOLD: NATIONAL GUARD PRODUCTS, INC. SADDLE TYPE THRESHOLD 325DKB, 36" WIDE x 1/2" RISE (ADA ACCESSIBLE). (ALL OTHER HARDWARE IS THE SAME AS USED FOR DOOR #3.)

DOOR #5 (TIGHT FITTING)
1. CLOSER: LCN-1521 PULL SIDE MOUNTED
2. HINGES: HAGER BB1279 US 26D 4 1/2" x 4 1/2" - 1-1/2 PAIR OR EQUAL.
3. PUSH & PULL PLATE: PUSH - HAGER 30S 4X16 US 28; PULL - HAGER H-33E 4X16 PLATE US 28
4. WALL STOP: HAGER 236W
5. KICK PLATES: US 28D SATIN, ALUM. 8" x 34" x 18 GA. (2) PER DOOR
6. DOOR SILENCERS: HAGER, QUANTITY = 3
7. SAFETY GUARDS: FINGER SAFE MKIA OPEN HINGE SIDE AND MKIB CLOSED HINGE SIDE OF DOOR.

DOOR #6 & #6A
1. CONTINUOUS HINGE: HAGER ROTON 780-112HD, CLEAR ANODIZED FINISH
2. LOCKSET: HAGER #3115 (modified) US 26D DEAD BOLT WITH PULLS
3. WALL STOP: HAGER 236W
4. COAT HOOK: BRADLEY 923 ROBE HOOK, INSIDE FACE OF DOOR AT 48" A.F.F.

DOOR #7 & #8
1. HINGES: HAGER BB1279 US26D 4 1/2x4 1/2, 1-1/2 PAIR, OR EQUAL
2. LOCKSET: SCHLAGE D-80-PD RHODES US26D FINISH
3. GRILLE: 18" x 18" METAL LOUVERED GRILLE AT BASE OF DOOR (DOOR #7)

DOOR #9
1. ALL DOOR HARDWARE FOR THE REFRIGERATED COOLER / FREEZER SHALL BE PROVIDED BY THE MANUFACTURER.
   MANUFACTURER: KOLPAK @ WHY. 641 N. McCORKLE PARK ROAD PARSONS, TN 38363, PHONE: 800-334-4675
   HARDWARE PROVIDED BY:
   1. MAGNETIC PERIMETER DOOR GASKET
   2. THRESHOLD REINFORCED PLASTIC (FRP)
   3. POSI-SEAL DOOR CLOSURE
   4. STATIONARY CHROME DOOR PULL HANDLE
   5. INTERIOR SAFETY RELEASE HANDLE
   6. HINGES - BRUSHED CHROME CAST ALLOY

DOOR (#10 OPTIONAL PER PLAN)
1. HINGES: (1 1/2) PAIR HAGER BB1279 US26D 4 1/2" x 4 1/2" OR EQUAL 4 1/2" x 4 1/2" OR EQUAL
2. LOCKSET: SCHLAGE-LEVON AL53PD, US26D FINISH
3. 12" x 12" ONE-WAY VIEW WINDOW

ROOM FINISH SCHEDULE

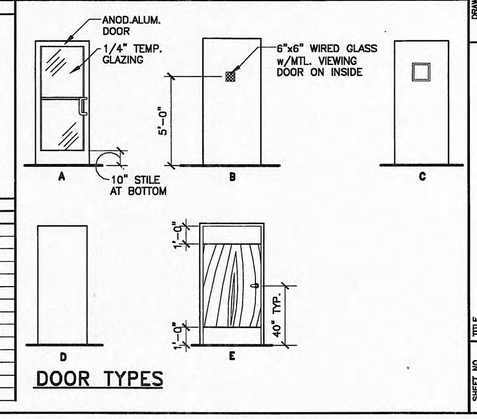
MARK	ROOM NAME	FLOOR: FLOOR TILE (NOTE 4)	FLOOR: QUARRY TILE (NOTE 4)	FLOOR: IMPACT FLOORING	BASE: COVED QUARRY TILE	BASE: COVED STRATA J65 TILE	BASE: 4" VINYL BASE	BASE: 4" ALUM. COVED BASE	WALLS: VWC OVER GYP BD	WALLS: GYPSUM BD. (PAINTED)	WALLS: FRP ON 1/2" PWD (NOTE 5)	WALLS: FRP OVER GYP BD	WALLS: CEMENT BOARD	WALLS: SEE DECOR DRAWINGS	WALLS: CERAMIC TILE	WALLS: CER. TILE-AS NOTED ON A1	WALLS: PRE-FAB METAL SKIN PANEL	CEILING *: MECH. SUSPENSION	CEILING *: 2'x2' ACOUST. LAYIN	CEILING *: PAINTED GYP. BD.	CEILING *: 2'x2' VINYL-FACED LAYIN	CEILING *: PRE-FAB METAL SKIN PANEL	REMARKS
																							* SEE CEILING PLAN FOR HGTS & LAYOUTS
100	CUSTOMER SERVICE	●				●			●					●		●		●	●	●			VERIFY FINISHES WITH DECOR COMPANY
101	DINING	●				●			●					●		●		●	●				VERIFY FINISHES WITH DECOR COMPANY
102	WOMEN'S TOILET	●				●							●		●					●			VERIFY FINISHES WITH DECOR COMPANY
103	MEN'S TOILET	●				●							●		●					●			VERIFY FINISHES WITH DECOR COMPANY
104	SUPPORT		●		●						●							●			●		SEE NOTE 6 FOR WALL FINISH EXCEPTIONS
105	KITCHEN		●		●						●					●		●			●		
106	PRESENTER		●		●						●							●			●		
107	ORDER		●		●						●							●			●		
108	MANAGER'S AREA		●		●						●							●			●		
109	CREW ROOM		●		●				●					●				●	●				VERIFY FINISHES WITH DECOR COMPANY
110	COOLER		●					●									●	●				●	
111	FREEZER		●					●									●	●				●	
112	COMPUTER CLOSET		●		●							●								●			
113	CLOSET		●		●						●	●								●			
114	JANITOR'S CLOSET	●			●						●			●				●		●			EXT GRADE PLYWOOD (NOTE 5) SEE NOTE 6B

GENERAL FINISH NOTES
1. ALL FINISH SURFACES OF WALL AND CEILING MATERIALS SHALL BE CLASS II AND SHALL HAVE A FLAME SPREAD RATING OF 26 TO 75 AND A SMOKE DENSITY OF 450 MAX. (PER IBC TABLE 8A).
2. DRAPES AND OTHER DECORATIVE MATERIALS SHALL BE FLAME RETARDANT AND MEET THE CRITERIA OF NFPA 701.
3. DECORATIVE MATERIAL SHALL NOT CONCEAL EXITS, EXIT LIGHTS, FIRE ALARM STATIONS, HOSE CABINETS, AND EXTINGUISHER LOCATIONS
4. QUARRY TILE: DAL-TILE DIABLO RED 6X6 ABRASIVE TILE WITH BLACK GROUT FLOOR TILE: DAL-TILE ROCKY MOUNTAIN SERIES OR OTHER TILE MEETING THE FOLLOWING: 1) MUST BE APPROVED BY McDONALD'S U.S. RESTAURANT DESIGN & CONSTRUCTION DEPARTMENT 2) MUST BE NO LARGER THAN 12"X12" 3) MUST MEET THE FOLLOWING STATIC COEFFICIENT OF FRICTION (PER ASTM F1677-05): LEVEL SURFACES: MINIMUM 0.50 DRY AND WET
5. WHEN BUILDING TYPE IS A NON-COMBUSTIBLE CATEGORY, ALL PLYWOOD SHALL BE FIRE RETARDANT. TREATED
6. A. FRP OVER CEMENT BD BEHIND 3-COMP SINK TO HGT OF BACK SPLASH
   B. FRP OVER CEMENT BD. OVER EXT GRADE PLYWOOD (NOTE 5) AT MOP SINK OPTIONAL: ADD S. STEEL SHEET
7. PROVIDE CEMENT BOARD BACKER OR EQUIVALENT AT ALL CERAMIC TILE LOCATIONS.

DOOR SCHEDULE

GENERAL DOOR NOTES:
1. GC TO INSTALL ACCESSIBILITY DOOR SIGNS WHERE REQD. BY LOCAL CODES - SEE GENERAL NOTE 6, SHEET A1.0.
2. DETEX ALARM CONTACT SWITCHES SHALL BE RECESSED INTO THE TOP OF THE DOOR & HOLLOW METAL FRAME ABOVE.
3. DOORS, DOOR FRAMES, & HARDWARE FOR DOORS 5, 6, 6A, 7, & 8 SUPPLIED BY: UNIVERSAL MANUFACTURING 1-800-821-1414.
4. INSTALL COUNTERSUNK SHEET METAL SCREWS ON THE VERTICAL STOPS OF DOORS #1, 2, 3, 3A, & 4. USE FIVE SCREWS PER STOP WITH COLOR TO MATCH STOP.
5. DOOR 9 SUPPLIED BY FREEZER/COOLER MANUFACTURER
6. SEE ELEVATIONS AND WALL SECTIONS

MARK	DOOR MATERIAL	DOOR SIZE	DOOR TYPE	FRAME MATL	FRAME SIZE
1	ALUM.	3'-0"x7'-0"x1 3/4"	A	ALUM.	(NOTE 6)
2	NOT USED	NOT USED			
3	H.M.	4'-0"x7'-0"x1 3/4"	B	H.M.	2"JAMB 4"HD
3A	H.M.	4'-0"x7'-0"x1 3/4"	D	H.M.	2"JAMB 4"HD
4	H.M.	3'-0"x7'-0"x1 3/4"	B	H.M.	2"JAMB 4"HD
5	S.C. WOOD	3'-0"x6'-8"x1 3/4"	D	H.M.	2"JAMB & HEAD
6	S.C. WOOD	3'-0"x4'-8"x1 3/4"	E	H.M.	2"JAMB & HEAD
6A	S.C. WOOD	2'-6"x4'-8"x1 3/4"	E	H.M.	2"JAMB & HEAD
7	S.C. WOOD	3'-0"x6'-8"x1 3/4"	D	H.M.	2"JAMB & HEAD
8	S.C. WOOD	2'-0"x7'-0"x1 3/4"	D	H.M.	2"JAMB & HEAD
9	INSULATED METAL	2'-10"x6'-6"x4"	D	N/A	N/A
10	S.C. WOOD	3'-0"x6'-8"x1 3/4"	C	H.M.	2"JAMB & HEAD



DOOR TYPES

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PREPARED FOR: McDonald's USA, LLC

DRAWN BY: RF
STD. ISSUE DATE: JAN 2008
REVIEWED BY: MK/TW
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK; BAR JOIST ROOF FRAMING; CULTURED STONE ARCADES
SITE ADDRESS: 1700 South Roane Street, Harriman, TN 37748
SITE ID: 041-0084

SHEET NO. 041-0084-00-0
A6.0
DOOR & FINISH

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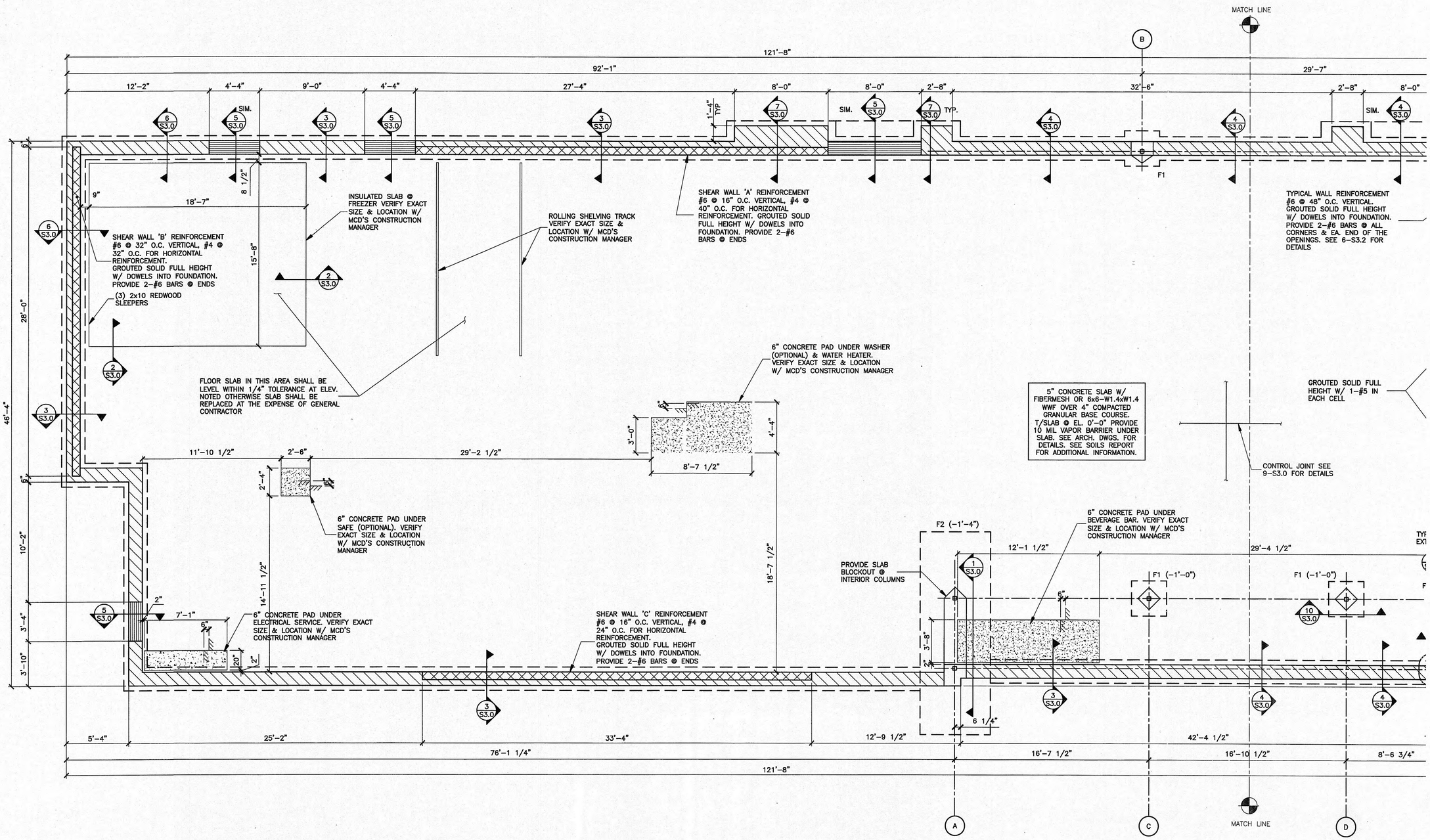

1 S1.0 PARTIAL FOUNDATION PLAN

1/4" = 1'-0"

NOTES:
1. TOP OF FOOTING @ EL. (-1'-4") UNLESS NOTED OTERWISE.
2. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
3. PROVIDE SLOPE FOR ALL FLOOR DRAINS (2'-0" BEYOND DRAIN) SEE PLUMBING DRAWINGS FOR EXACT LOCATIONS.
4. SEE SHEET S3.2 FOR WALL REINFORCEMENT DETAILS.
5. SEE SHEET S3.0 FOR TYPICAL CORNER BAR DETAILS.
6. SEE SHEET S4.0 FOR FOOTING SCHEDULE.

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REV	DATE	DESCRIPTION	BY

REVIEWED BY:

PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	CHECKED BY
ELT	DPT
STD ISSUE DATE	REVIEWED BY
JAN 2008	DPT
	DATE ISSUED
	1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG

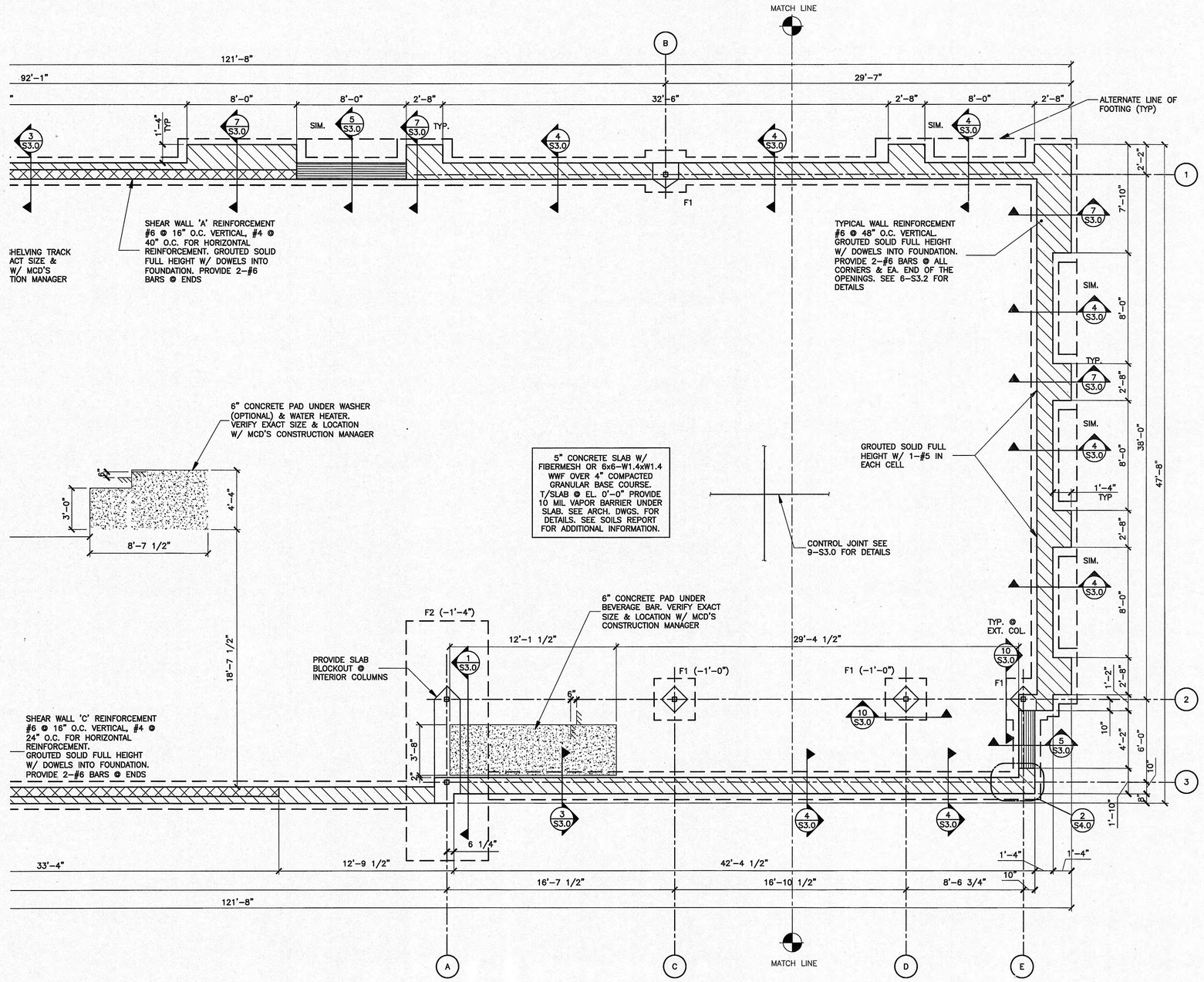
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES

SITE ID: 041-0094

SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO. 041-0084-00-0

S1.0 FOUNDATION PLAN



1 / S1.1 PARTIAL FOUNDATION PLAN

1/4" = 1'-0"

NOTES:
1. TOP OF FOOTING @ EL. (-1'-4") UNLESS NOTED OTERWISE.
2. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
3. PROVIDE SLOPE FOR ALL FLOOR DRAINS (2'-0" BEYOND DRAIN) SEE PLUMBING DRAWINGS FOR EXACT LOCATIONS.
4. SEE SHEET S3.2 FOR WALL REINFORCEMENT DETAILS.
5. SEE SHEET S3.0 FOR TYPICAL CORNER BAR DETAILS.
6. SEE SHEET S4.0 FOR FOOTING SCHEDULE.

REV	DATE	DESCRIPTION	BY
1	-		
1	1		

REVIEWED BY:

PREPARED FOR: McDonald's USA, LLC

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ELK	JPI	1/23/2009
STD ISSUE DATE		
JAN 2008		

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG

DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES

SITE ID: 041-0084

SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO. 041-0084-00-0

S1.1 FOUNDATION PLAN

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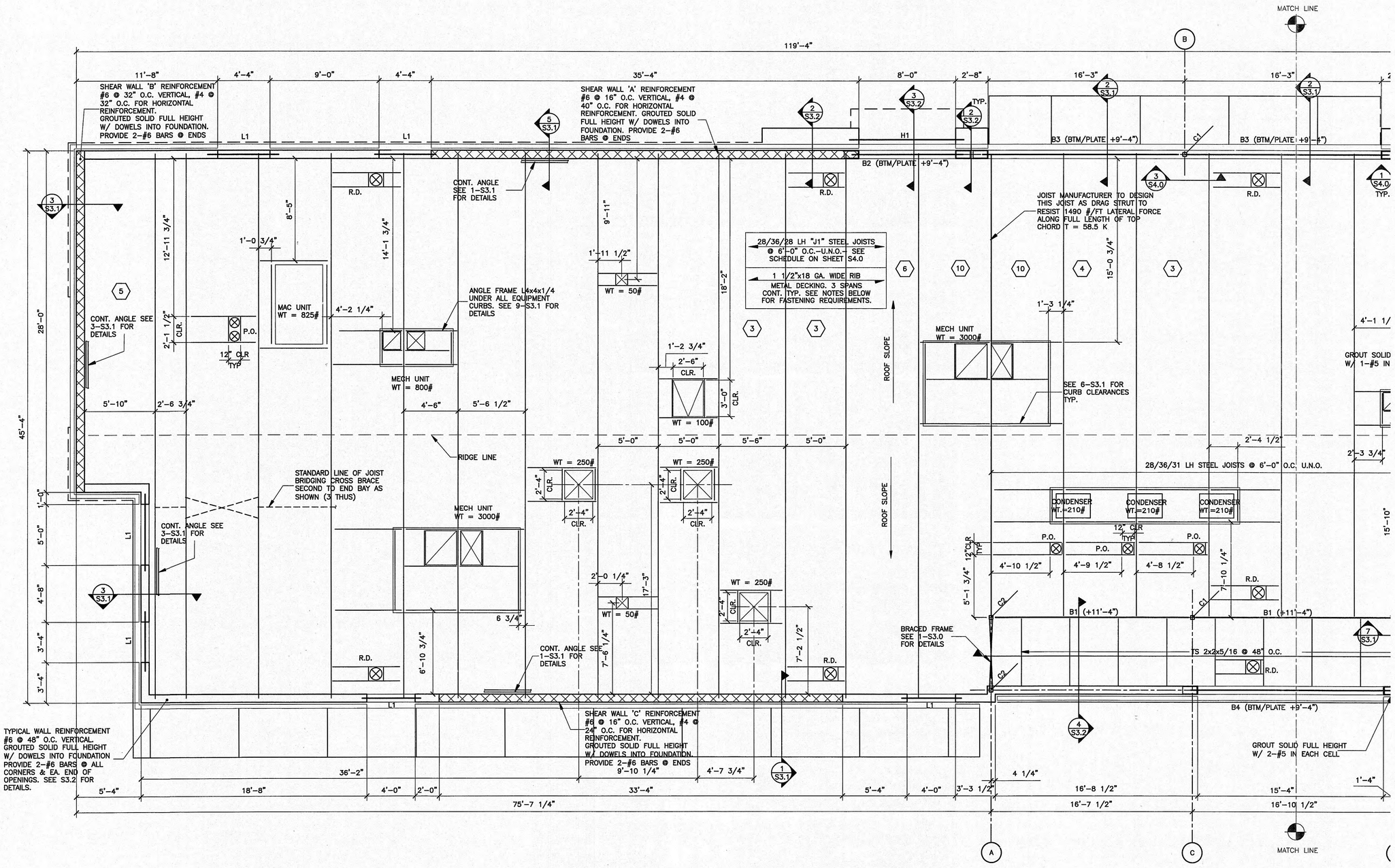

DECK ATTACHMENT NOTES:

- INDICATES SPACING OF 5/8"ø PUDDLE WELDS @ EACH SUPPORTING MEMBER – 12" UNLESS NOTED OTHERWISE
- INDICATES NUMBER OF #10 TEK SIDELAP SCREWS, EQUALLY SPACED BETWEEN SUPPORTING MEMBERS, 1 UNLESS NOTED OTHERWISE. ALSO PROVIDE A SIDELAP @ EACH SUPPORT

1 S2.0 **PARTIAL FRAMING PLAN** 1/4" = 1'-0"

NOTES:
1. SEE SHEET S4.0 FOR BEAM SCHEDULE.
2. SEE SHEET S4.0 FOR COLUMN & BASE PLATE SCHEDULE.
3. SEE SHEET S4.0 FOR LINTEL SCHEDULE.
4. SEE SHEET S4.0 FOR JOIST SCHEDULE.
5. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
6. SEE SHEET S3.2 FOR WALL REINFORCEMENT DETAILS.
7. R.D.: ROOF DRAINS VERIFY SIZE & LOCATION W/ MCD'S CONSTRUCTION MANAGER.
8. P.O.: ROOF CURB PORTAL OPENING – COORDINATE WITH MECHANICAL DRAWINGS.

BY	DESCRIPTION	DATE	REV
I		I	I

I. P. ILLES REGISTERED ENGINEER 20103 STATE OF TENNESSEE

REVIEWED BY:

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PREPARED FOR: McDonald's USA, LLC

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ELR	JAN 2008
REVIEWED BY	DATE ISSUED
JPI	1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES
SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO. 041-0084-00-0
S2.0
FRAMING PLAN

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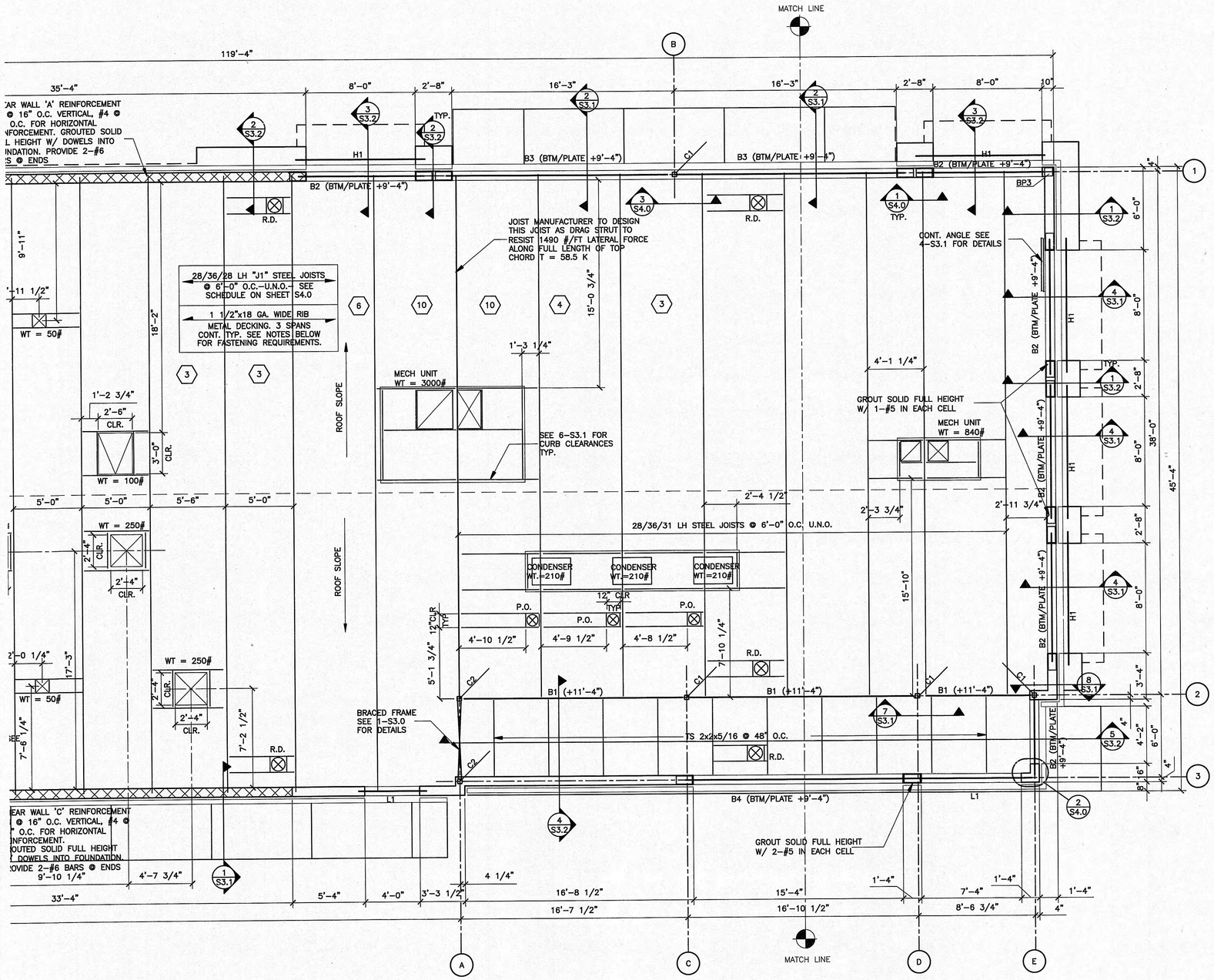

DECK ATTACHMENT NOTES:

- ☐ INDICATES SPACING OF 5/8"ø PUDDLE WELDS @ EACH SUPPORTING MEMBER – 12" UNLESS NOTED OTHERWISE
- ⬡ INDICATES NUMBER OF #10 TEK SIDELAP SCREWS, EQUALLY SPACED BETWEEN SUPPORTING MEMBERS, 1 UNLESS NOTED OTHERWISE. ALSO PROVIDE A SIDELAP @ EACH SUPPORT

NOTES:
1. SEE SHEET S4.0 FOR BEAM SCHEDULE.
2. SEE SHEET S4.0 FOR COLUMN & BASE PLATE SCHEDULE.
3. SEE SHEET S4.0 FOR LINTEL SCHEDULE.
4. SEE SHEET S4.0 FOR JOIST SCHEDULE.
5. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
6. SEE SHEET S3.2 FOR WALL REINFORCEMENT DETAILS.
7. R.D.: ROOF DRAINS VERIFY SIZE & LOCATION W/ MCD'S CONSTRUCTION MANAGER.
8. P.O.: ROOF CURB PORTAL OPENING – COORDINATE WITH MECHANICAL DRAWINGS.

1 / S2.1 **PARTIAL FRAMING PLAN**
1/4" = 1'-0"

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NO.	DESCRIPTION	DATE	BY
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-		-	-
-		-	-

J. P. ILLIG REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF PENNSYLVANIA STATE OF TENNESSEE

01/23/09

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REVIEWED BY:

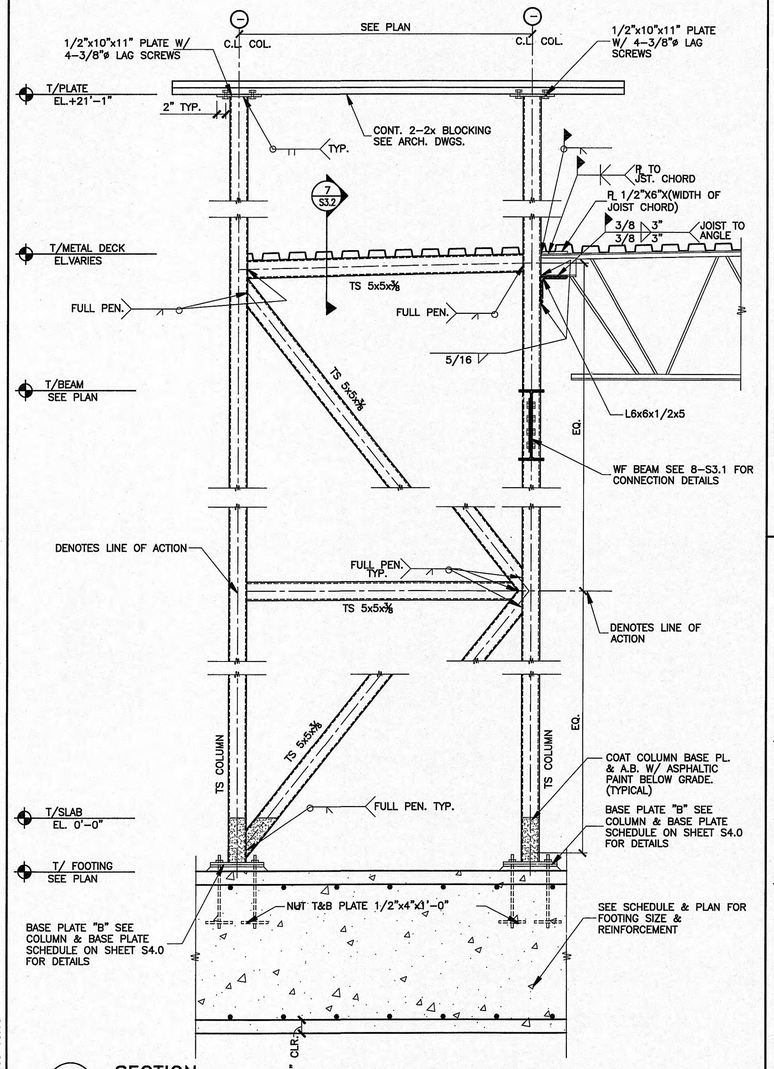
DRAWN BY: ELR
STD ISSUE DATE: JAN 2008
REVIEWED BY: JPI
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

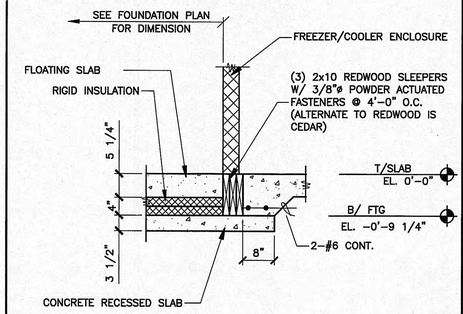
DESCRIPTION:
5" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCHES

SITE ID: 041-0084
STORE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO.: 041-0084-00-0
S2.1
FRAMING PLAN



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



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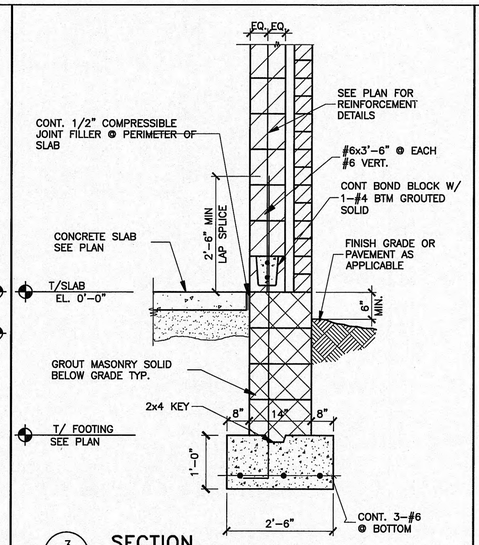

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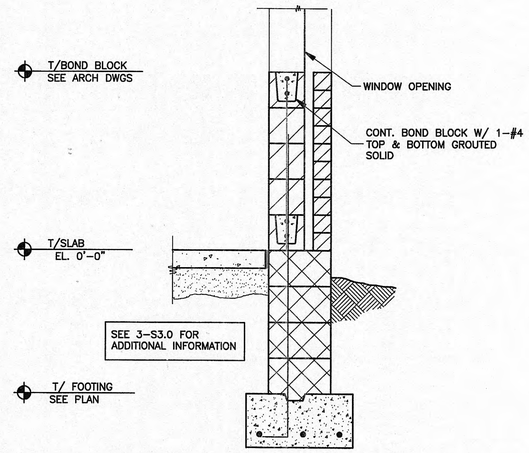

4 S3.0 **SECTION**
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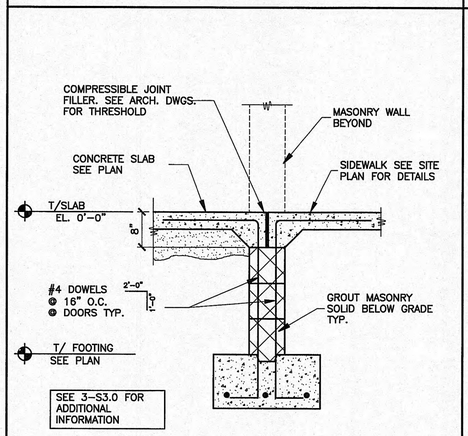
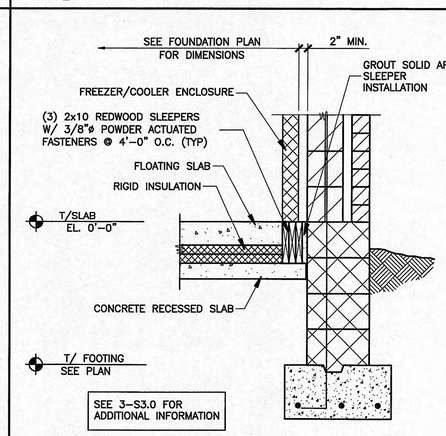
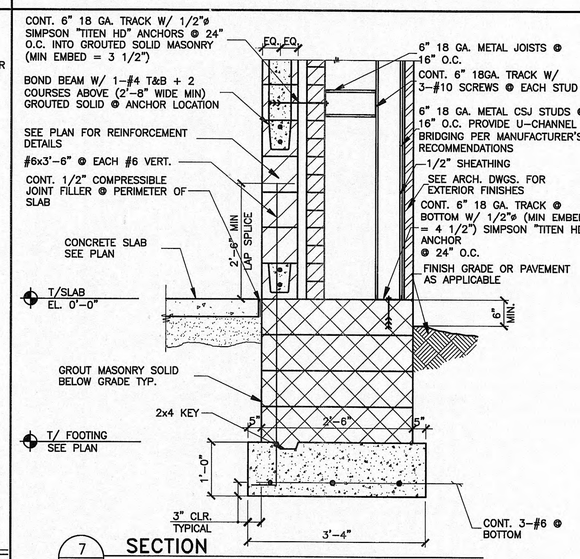


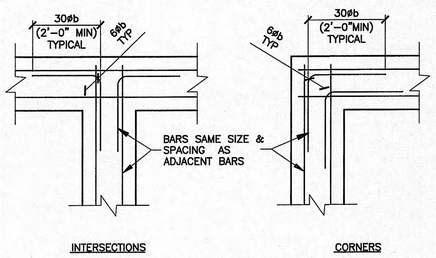
5 S3.0 **SECTION**
3/4" = 1'-0"



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

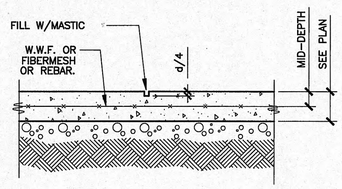


7 S3.0 **SECTION**
3/4" = 1'-0"



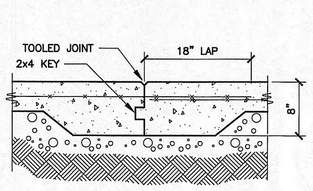
TYPICAL CORNER BAR DETAIL

8 S3.0 **DETAIL**
N.T.S.

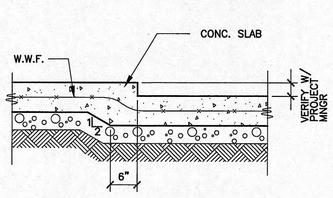


CONTROL JOINT
SAWCUT MAX. NEXT MORNING AFTER SLAB IS CAST

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

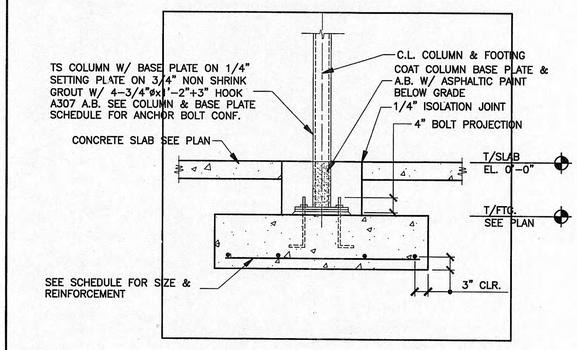


CONSTRUCTION JOINT



SLAB DEPRESSION

9 S3.0 **SLAB ON GRADE DETAIL**
N.T.S.



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

NO.	BY	DESCRIPTION	DATE
1			

I. P. ILLES REGISTERED ENGINEER STATE OF TENNESSEE

01/28/09

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

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REVIEWED BY:

DRAWN BY: ELR
STD ISSUE DATE: JAN 2008
REVIEWED BY: JPI
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES
SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO.: 041-0084-00-0
S3.0
SECTIONS

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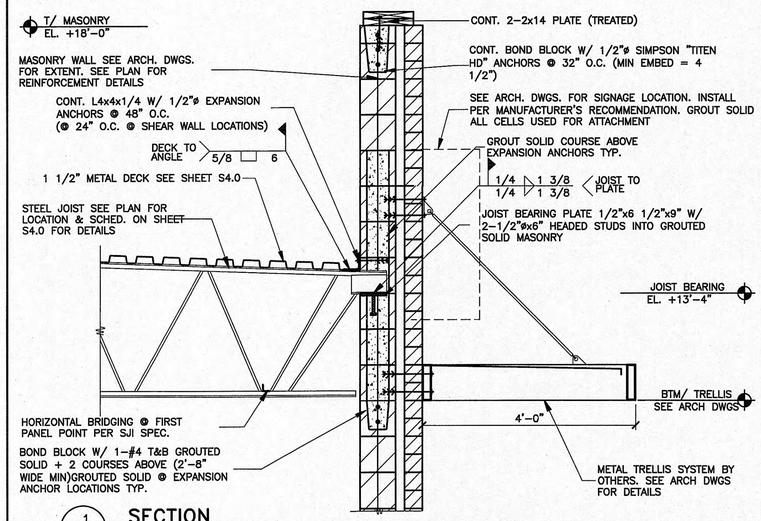
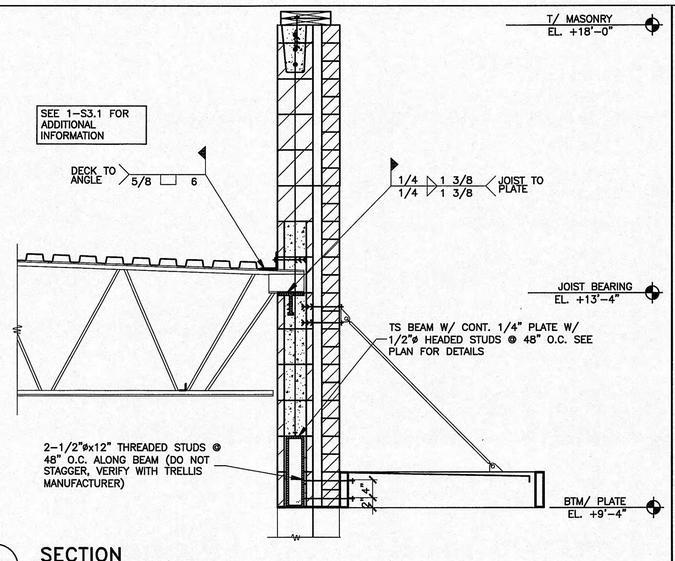
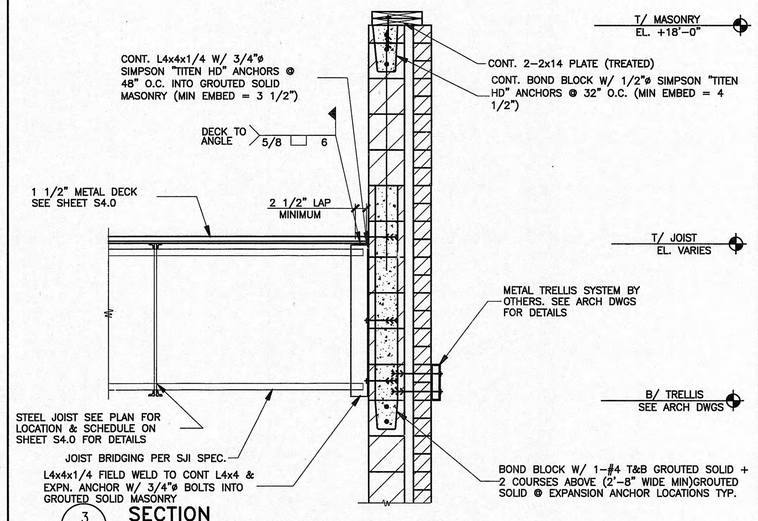


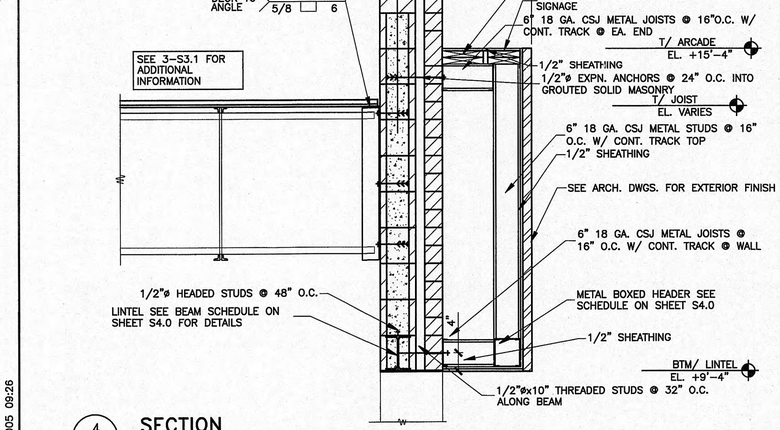
1 S3.1 **SECTION** 3/4" = 1'-0"



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



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



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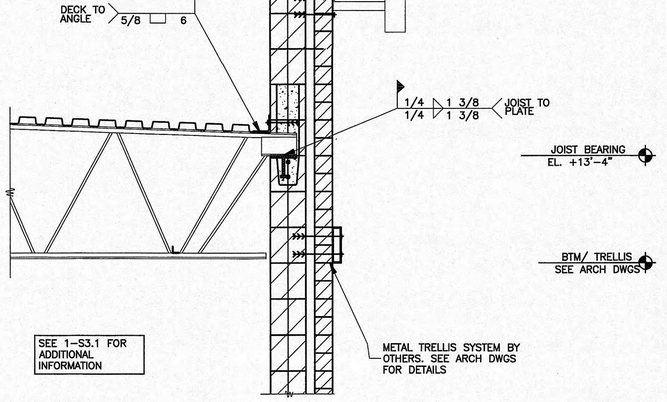
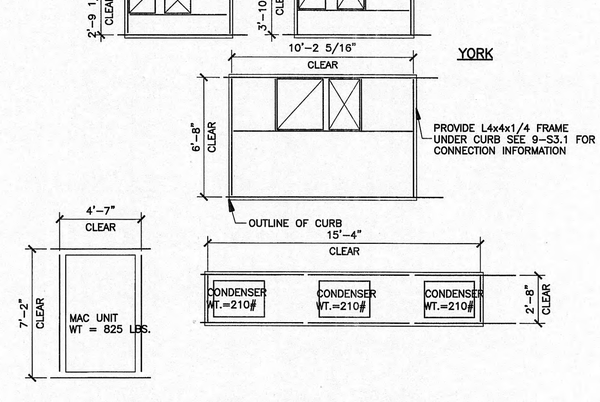
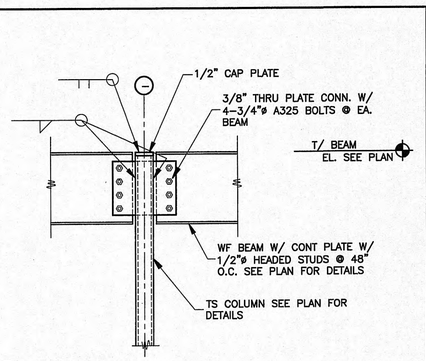


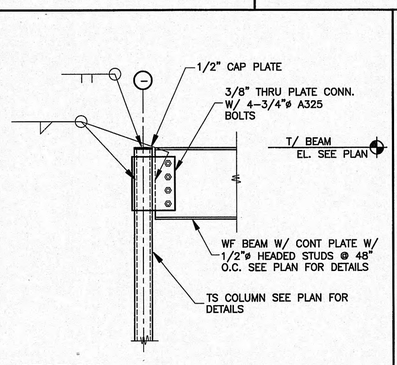
5 S3.1 **SECTION** 3/4" = 1'-0"



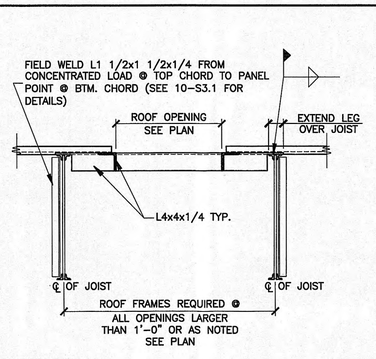
6 S3.1 **ROOF TOP UNIT CLEARANCES** 3/4" = 1'-0"



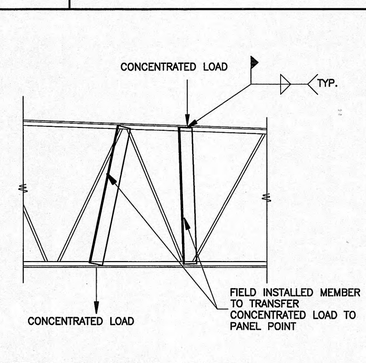
7 S3.1 **SECTION** 3/4" = 1'-0"



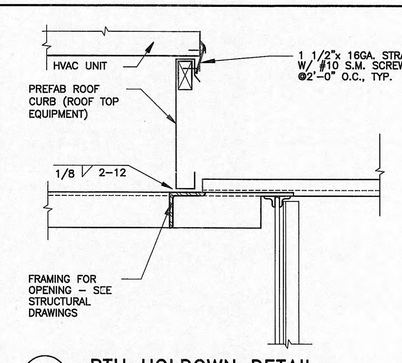
8 S3.1 **SECTION** 3/4" = 1'-0"



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



10 S3.1 **DETAIL @ POINT LOADS** 3/4" = 1'-0"



11 S3.1 **RTU HOLDOWN DETAIL** 3/4" = 1'-0"

BY	DESCRIPTION	DATE	REV

J. P. ILLES — REGISTERED PROFESSIONAL ENGINEER — STATE OF TENNESSEE

DRAWN BY: ELR
STD ISSUE DATE: JAN 2008
REVIEWED BY: JPI
DATE ISSUED: 1/23/2009

PREPARED FOR: McDonald's USA, LLC

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REVIEWED BY:

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG

DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES

SITE ID: 041-0084 SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO. 041-0084-00-0

S3.1 SECTIONS

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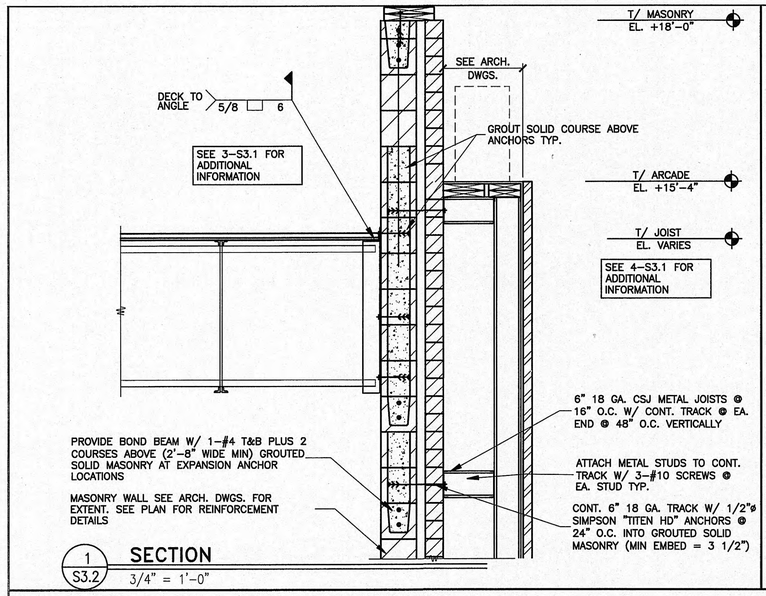
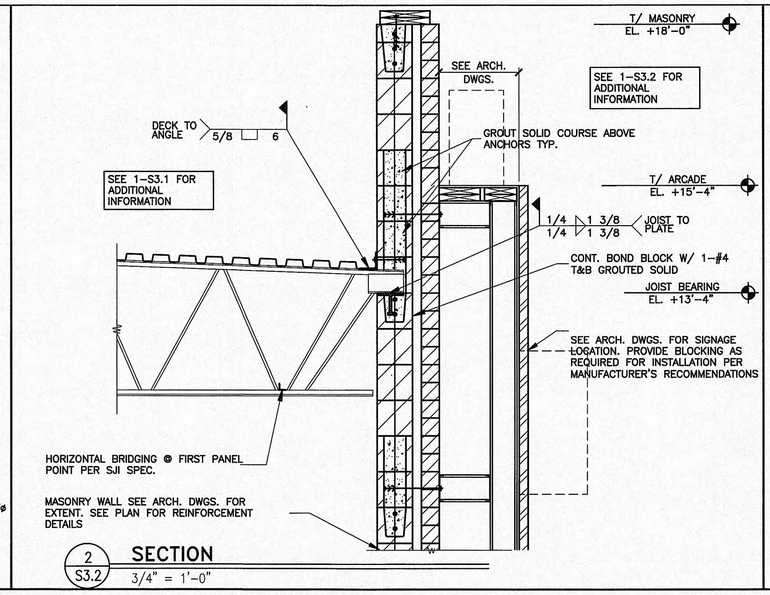


1 S3.2 **SECTION** 3/4" = 1'-0"



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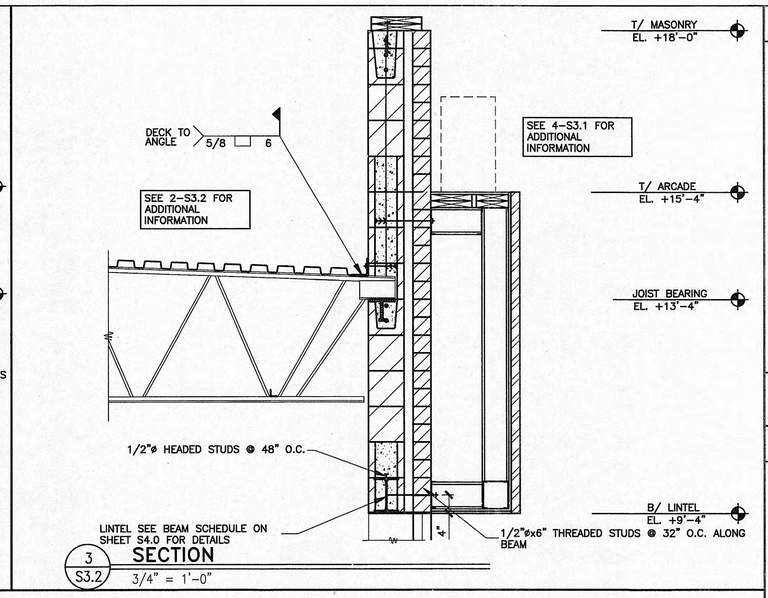
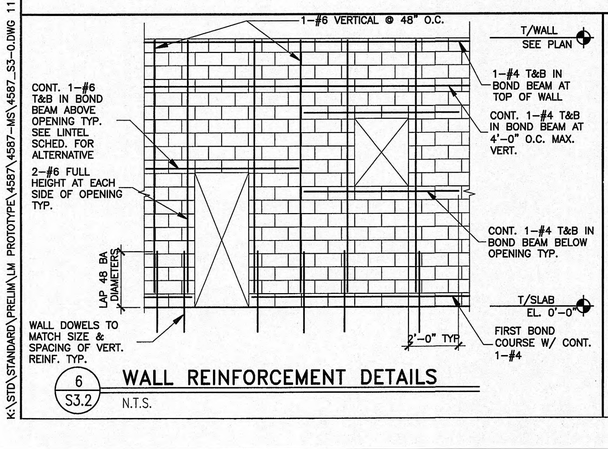


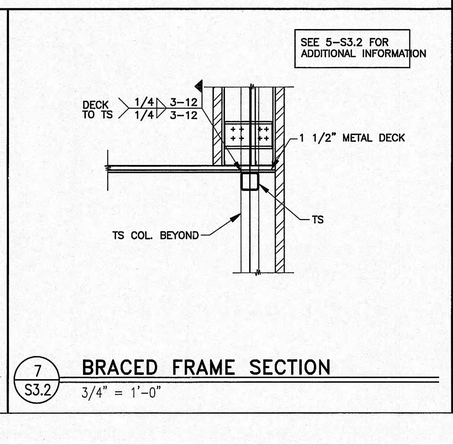
3 S3.2 **SECTION** 3/4" = 1'-0"

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

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



6 S3.2 **WALL REINFORCEMENT DETAILS** N.T.S.



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

NO.	DESCRIPTION	DATE	BY
1			

T. P. ILLES REGISTERED PROFESSIONAL ENGINEER STATE OF TENNESSEE

REVIEWED BY:

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PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE
ELR	JAN 2008
REVIEWED BY	DATE ISSUED
JPI	1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION	SITE ADDRESS
8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES	1705 South Roane Street, Harriman, TN 37748
SITE ID 041-0084	

SHEET NO. 041-0084-00-0
S3.2
SECTIONS

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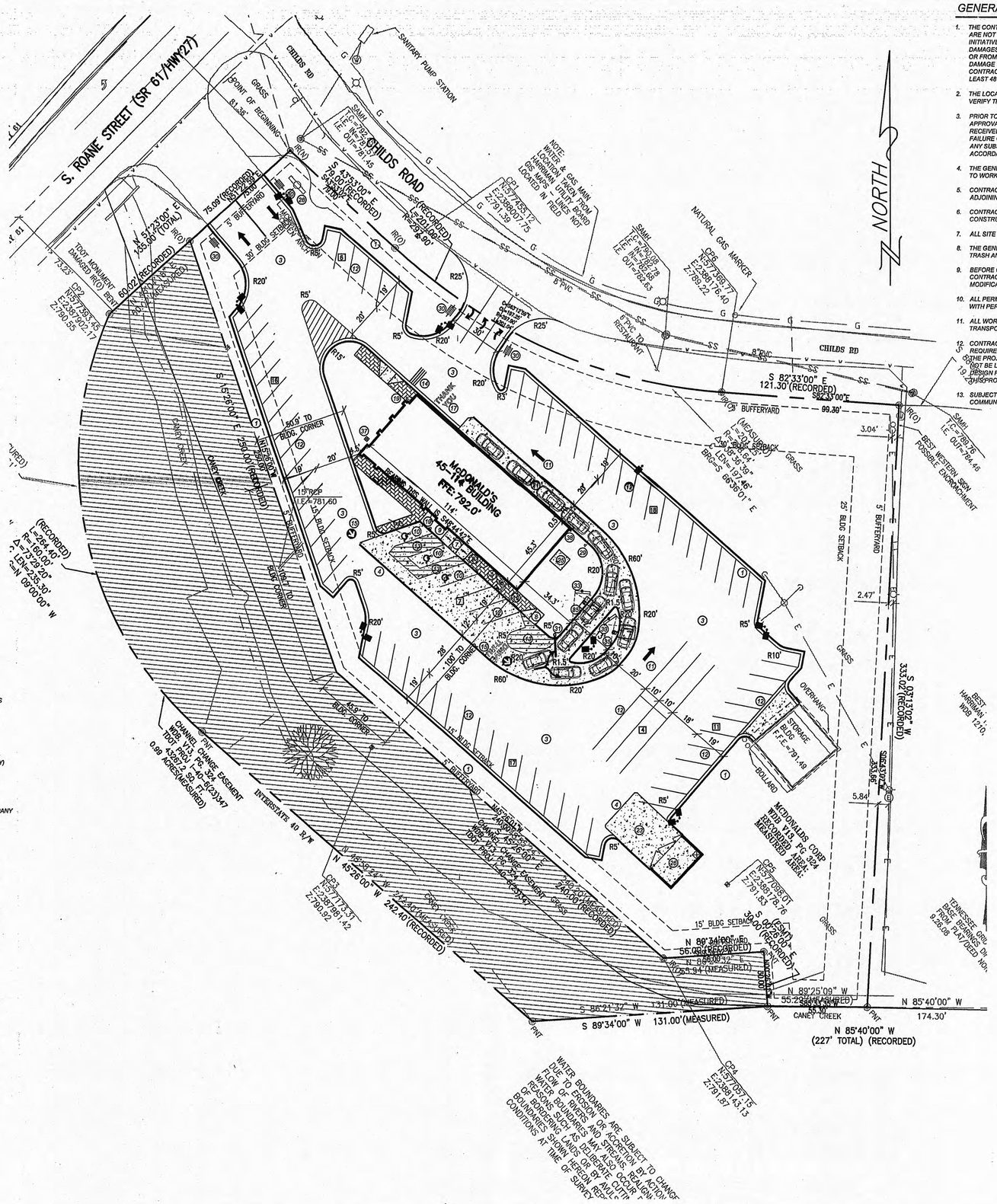


SITE KEY NOTES:

1. CONSTRUCT 2' CURB AND GUTTER PER DETAIL SHEET
2. CONSTRUCT 3' CONCRETE FLUME PER DETAIL SHEET
3. ASPHALT PAVEMENT PER SOILS REPORT SPECIFICATIONS
4. TRANSITION FROM ASPHALT TO CONCRETE PAVEMENT PER DETAIL SHEET
5. MATCH EXISTING ASPHALT
6. CONSTRUCT STANDARD CONCRETE H.C. RAMP PER DETAIL SHEET
7. ~~CONSTRUCT FLUSH CONCRETE H.C. RAMP PER DETAIL SHEET~~
8. DELIVERY RAMP
9. INSTALL H.C. SIGN PER DETAIL SHEET
10. PAINT H.C. SYMBOL PER DETAIL SHEET
11. PAINT TRAFFIC ARROWS PER DETAIL SHEET
12. PAINT 4" WIDE STRIPE, WHITE
13. PAINT 4" WIDE STRIPES, WHITE @ 45° 2'-0" O.C.
14. GRILL STALL / PICKUP AREA, PAINT FOUR 4" WIDE STRIPE, WHITE
15. PAINTED "DRIVE-THRU" DIRECTIONAL ARROW, YELLOW, COORDINATE WITH McDONALDS WITH McDONALDS CONSTRUCTION MANAGER
16. PAINT 6" WIDE YELLOW STRIPE ON ASPHALT FROM EDGE OF CONCRETE DRIVE-THRU LANE
17. PAINT "THANK YOU" PER DETAIL SHEET
18. GUARD RAIL. REFER TO ARCHITECTURAL.
19. CONSTRUCT CONCRETE WALK WITH TILE SURFACE PER McDONALD'S SPECIFICATIONS
20. CONSTRUCT CONCRETE SIDEWALK PER DETAIL SHEET
21. CONCRETE PAD @ DRIVE-THRU, 10' CONTROL JOINTS, 20' EXPANSION JOINTS OR PER SOILS REPORT SPECIFICATIONS
22. CONCRETE PAD FOR GREASE TRAP, SEE PLUMBING PLANS McDONALD'S SPECIFICATIONS
23. CONSTRUCT CONCRETE DUMPSTER PAD PER SOILS REPORT SPECIFICATIONS
24. CONCRETE WHEEL STOP PER DETAIL SHEET
25. CONCRETE TRANSFORMER PAD (COORDINATE SIZE AND LOCATION WITH POWER COMPANY)
26. CONSTRUCT DUMPSTER ENCLOSURE (TO MATCH BUILDING) PER DETAIL SHEET
27. 10' X 16' STORAGE SHED (PER DETAIL SHEET), EXTERIOR FINISH TO MATCH DUMPSTER ENCLOSURE
28. EXISTING SITE IDENTIFICATION SIGN (CONTRACTOR SHALL COORDINATE WITH SIGN COMPANY AND CONSTRUCTION MANAGER).
29. "PLEASE HAVE MONEY ..." SIGN SUPPLIED BY AND INSTALLED BY SIGN CONTRACTOR
30. DIRECTIONAL SIGNAGE (PER DETAIL SHEET): GALVANIZED ANCHOR BOLTS, (6" ABOVE GRADE), FOOTINGS AND ELECTRICITY BY GENERAL CONTRACTOR, SIGN INSTALLED BY SIGN CONTRACTOR. CONTRACTOR TO COORDINATE WITH MCDONALD'S CONSTRUCTION MANAGER
31. GATEWAY SIGN (PER DETAIL SHEET): GALVANIZED ANCHOR BOLTS, (6" ABOVE GRADE), FOOTINGS AND ELECTRICITY BY GENERAL CONTRACTOR, SIGN INSTALLED BY SIGN CONTRACTOR. CONTRACTOR TO COORDINATE WITH MCDONALD'S CONSTRUCTION MANAGER
32. POLE MOUNTED AREA LIGHT(S) SEE LIGHTING PLAN: GALVANIZED ANCHOR BOLTS, (6" ABOVE GRADE), FOOTINGS BY GENERAL CONTRACTOR, POLE INSTALLED BY SIGN CONTRACTOR. CONTRACTOR TO COORDINATE WITH MCDONALD'S CONSTRUCTION MANAGER
33. MENU BOARD (PER DETAIL SHEET): GALVANIZED ANCHOR BOLTS, (6" ABOVE GRADE), FOOTINGS AND ELECTRICITY BY GENERAL CONTRACTOR, SIGN INSTALLED BY SIGN CONTRACTOR. CONTRACTOR TO COORDINATE WITH MCDONALD'S CONSTRUCTION MANAGER
34. ~~VERTICAL PREVIEW "PRE-SELL" BOARD (PER DETAIL SHEET): GALVANIZED ANCHOR BOLTS, (6" ABOVE GRADE), FOOTINGS AND ELECTRICITY BY GENERAL CONTRACTOR, SIGN INSTALLED BY SIGN CONTRACTOR. CONTRACTOR TO COORDINATE WITH MCDONALD'S CONSTRUCTION MANAGER~~
35. CUSTOMER ORDER DISPLAY WITH DETECTOR LOOP (PER DETAIL SHEET): GALVANIZED ANCHOR BOLTS, (6" ABOVE GRADE), FOOTINGS AND ELECTRICITY BY GENERAL CONTRACTOR, SIGN INSTALLED BY SIGN CONTRACTOR. CONTRACTOR TO COORDINATE WITH MCDONALD'S CONSTRUCTION MANAGER
36. DRIVE-THRU CANOPY (PER DETAIL SHEET): GALVANIZED ANCHOR BOLTS, (6" ABOVE GRADE), FOOTINGS AND ELECTRICITY BY GENERAL CONTRACTOR, SIGN INSTALLED BY SIGN CONTRACTOR. CONTRACTOR TO COORDINATE WITH MCDONALD'S CONSTRUCTION MANAGER
37. 30'-0" FLAG POLE, ALUMINUM FINISH POLE AND FLAG (PER DETAIL SHEET), GALVANIZED ANCHOR BOLTS, (6" ABOVE GRADE), FOOTINGS BY GENERAL CONTRACTOR, POLE INSTALLED BY SIGN CONTRACTOR. CONTRACTOR TO COORDINATE WITH MCDONALD'S CONSTRUCTION MANAGER
38. STEEL PIPE BOLLARD PER DETAIL SHEET

GENERAL SITE NOTES:

1. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. THE CONTRACTOR(S) SHALL CONTACT TENNESSEE ONE AT 1-800-922-0963 FOR ASSISTANCE IN LOCATING EXISTING UTILITIES. CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
2. THE LOCATIONS OF ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UTILITIES WITH THE UTILITY OWNERS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. FAILURE OF THE CONTRACTOR TO FOLLOW THIS PROCEDURE SHALL CAUSE THE CONTRACTOR TO ASSUME FULL RESPONSIBILITY FOR ANY SUBSEQUENT MODIFICATION OF THE WORK MANDATED BY ANY REGULATORY AUTHORITY. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY AND LOCAL CODES.
4. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS. ACCESS SHALL BE LIMITED UNTIL PERMISSION IS GRANTED.
5. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
6. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE CONTRACT LIMITS DUE TO CONSTRUCTION OPERATIONS.
7. ALL SITE DIMENSIONS ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.
8. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES AND REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
9. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER WHO PREPARED THE PLANS OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATIONS TO THESE PLANS OR OF ANY FIELD CONFLICTS.
10. ALL PERMITS RELATIVE TO THE PROJECT MUST BE OBTAINED, PRIOR TO CONSTRUCTION. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY AND LOCAL CODES.
11. ALL WORK IN RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH "THE CURRENT EDITION OF THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS".
12. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE OWNER AND DESIGN PROFESSIONAL HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, ACCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL.
13. SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY HUD F.I.R.M. COMMUNITY PANEL NUMBER 47145C0087F PAGE 87 OF 335, WITH AN EFFECTIVE DATE OF SEPTEMBER 26, 2008.

LEGEND

- 2' CURB & GUTTER
- HANDICAP RAMP
- HANDICAP STALL
- CONCRETE
- PROPERTY LINE
- SIGN
- BOLLARD
- EX. FIRE HYDRANT
- FENCE
- POLE MOUNTED AREA LIGHT
- PROPERTY CORNER
- F.F.E. =XXX.XX FINISH FLOOR ELEVATION

PAVING SPECIFICATIONS

CONTRACTOR TO REFER TO SOILS REPORT FOR SITE SPECIFIC PAVEMENT SPECIFICATIONS.

NOTE:
McDONALD'S ENGINEER RESERVES THE RIGHT TO REQUEST A COMPACTION TEST AND/OR A CORE SAMPLE. IF TESTS PROVE CORRECT, PER ABOVE SPECIFICATION, TESTS WILL BE AT THE EXPENSE OF McDONALD'S, OTHERWISE, GENERAL CONTRACTOR WILL BE CHARGED.

PARKING INFORMATION

TOTAL SPACES						
75	-	SPACES	-	X	-	@ 0 °
+RV PARKING	3	HANDICAP SPACES	9'	X	19'	@ 60 °
	-	SPACES	-	X	-	@ 45 °
	72	SPACES	9'	X	19'	@ 60 °
	-	SPACES	-	X	-	@ 90 °

UTILITY INFORMATION

	SIZE TYPE LOCATION
SANITARY SEWER	6" LINE ON CHILDS ROAD
WATER	2" GALVANIZED LINE ALONG CHILDS ROAD
STORM SEWER	SITE DRAINS TO CANEY CREEK
ELECTRIC	OVERHEAD LINE ALONG CHILDS ROAD
GAS	LINA ALONG OTHER SIDE OF CHILDS ROAD

SURVEY INFORMATION

PREPARED BY: SURVEYOR
ADDRESS
ADDRESS
PHONE
DATE OF SURVEY:X DATE OF MAP: X

PLAN SCALE: 1" =30'

STREET ADDRESS
1705 SOUTH ROANE ST.

CITY	STATE
HARRIMAN	. TN 37748

COUNTY
ROANE

TAX PARCEL NUMBER	LOCATION CODE NUMBER
035LA002.00	041-0084

CSD FILENAME:
08466

JOHN ANDREW CONNELL — REGISTERED ENGINEER — No. 0010705 — STATE OF TENNESSEE — COMMISSION EXPIRES — 11/1/2

REV	DATE	BY	DESCRIPTION
A	01-06-09	YAG	ISSUE FOR PERMIT

ISSUE/REF

BRITT PETERS AND ASSOCIATES INC.
consulting engineers
550 S. Main Street
Suite 301
Greenville, SC 29601
(864) 271-8869
Fax (864) 233-5140
www.brittpeters.com

McDonald's

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF McDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

OFFICE: RALEIGH REGION
ADDRESS: 4601 SIX FORKS ROAD - SUITE 200 - RALEIGH, N.C. 27609

PLAN APPROVAL

SIGNATURE (2 REQUIRED)	DATE
REGIONAL MGR.	
REGIONAL DEV. DIRECTOR	
REGIONAL CONSTRUCTION MGR.	
REGIONAL REAL ESTATE MGR.	
AREA CONSTRUCTION MGR.	
CONTRACTOR	

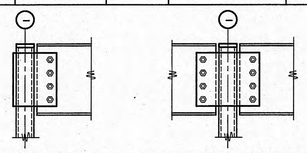
CO-SIGN SIGNATURES

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

C-3
SITE PLAN

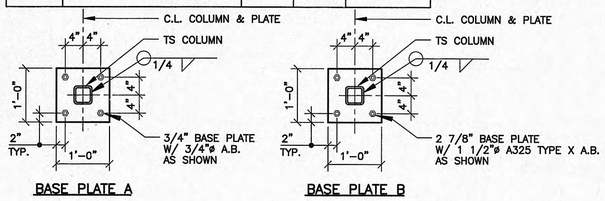
BEAM SCHEDULE

MARK	MEMBER	SHAPE	SUPPORT	REMARKS
B1	W16x36 + 1/4" PLATE	I	3/8" THRU PLATE	4-3/4"ø A325 BOLTS EA. END
B2	W8X15 + 1/4" PLATE	I	BEARING PLATE	BP2,BP3*
B3	TS16X4X1/2 + 1/4" PLATE	⊓	BEARING PLATE	BP1
B4	W8X21 + 1/4" PLATE	I	BEARING PLATE	BP2



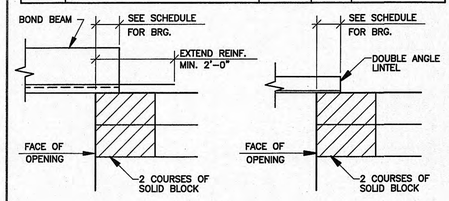
COLUMN & BASE PLATE SCHEDULE

MARK	MEMBER	SHAPE	BASE PLATE	REMARKS
C1	TS 4" x 4" x 1/4"	⊕	A	
C2	TS 5" x 5" x 3/8"	⊕	B	K-BRACE



LINTEL SCHEDULE

MARK	MEMBER	SHAPE	BRG.	REMARKS
L1	3 - L's 5x3 1/2x5/16 LLV	⊥⌊	8"	



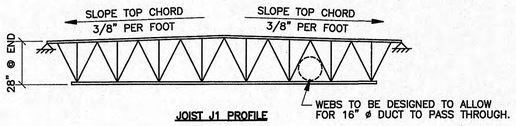
FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F1	5'-0"x5'-0"x1'-6"	6-#6 E.W.B.
F2	8'-0"x24'-0"x3'-0"	#9 @ 10" O.C. L.W.T&B #4 @ 12" O.C. S.W.T&B

STEEL JOIST SCHEDULE

LIVE LOAD	JOIST	MARK	REMARKS
20	28LH07	J1	SEE NOTE 1

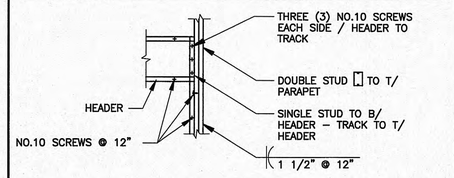
NOTE:
1. ALL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING NET UPLIFT.
   90 MPH - 12.4 PSF
2. ACTUAL JOIST CONFIGURATION TO BE DETERMINED BY JOIST MANUFACTURER.

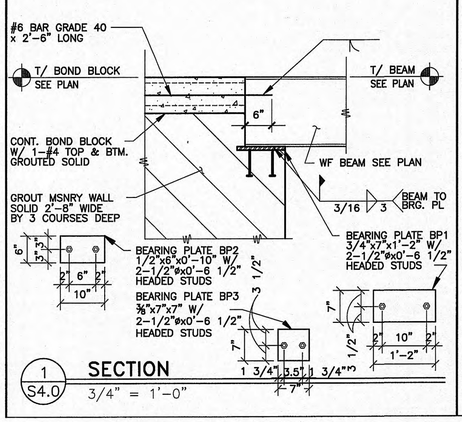


JOIST J1 PROFILE

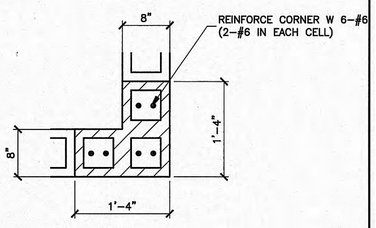
HEADER SCHEDULE

MARK	MEMBER	SHAPE	BEARING
H1	2 - 6"x16 GA JOISTS + 2 - 6"x16 GA TRACKS	⊓	3" - 6" CSJ

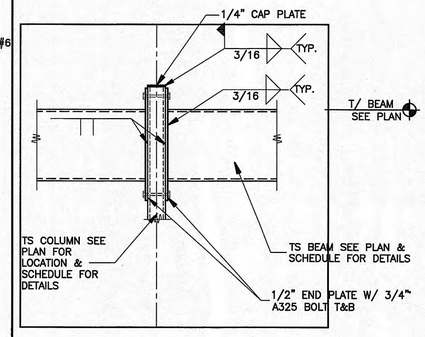




1 S4.0 SECTION 3/4" = 1'-0"



2 S4.0 PLAN DETAIL 1" = 1'-0"



3 S4.0 SECTION 3/4" = 1'-0"

STRUCTURAL GENERAL NOTES:

DESIGN AND LOADING

THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:

1. BUILDING CODE: 2003 INTERNATIONAL BUILDING CODE
2. FLOOR LIVE LOAD: 100 PSF
3. ROOF LIVE LOAD: 20 PSF
   ROOF DEAD LOAD: 20 PSF
4. GROUND SNOW LOAD: 10 PSF
   FLAT ROOF SNOW LOAD: 10 PSF
   SNOW EXPOSURE FACTOR, Ce: 0.9
   IMPORTANCE FACTOR, I: 1.0
   THERMAL COEFFICIENT, Ct: 1.0
5. BASIC WIND SPEED: 90 MPH (3-SECOND GUST)
   IMPORTANCE FACTOR: 1.00
   BUILDING OCCUPANCY CATEGORY: II
   WIND EXPOSURE: B
   PRESSURES PER 1609.6.2
6. SEISMIC OCCUPANCY CATEGORY: II
   IMPORTANCE FACTOR: 1.00
   SITE CLASS: D
   Ss = 0.462g, S1= 0.139g
   Sds = 0.44, Sd1 = 0.208
   DESIGN CATEGORY: D
   BEARING WALL SYSTEM (R = 3.5)
   OMRF (R = 3.25)
   Cs:0.126
   DESIGN BASE SHEAR = 73.955 K
   ANALYSIS PROCEDURE: EQUIVALENT PROCEDURE
7. FLOOD LOAD: N/A
8. SPECIAL LOADS: N/A

FOUNDATION NOTES

THE FOUNDATION DESIGN OF THIS BUILDING WAS BASED ON THE FOLLOWING CRITERIA:

1. MAXIMUM ALLOWABLE SOIL BEARING CAPACITY = 1500 PSF.
2. RECOMMENDED BY ECS CAROLINAS LLP IN THEIR REPORT #31-1227 DATED 10/12/08
3. ANY FILL REQUIRED BELOW SLABS ON GRADE OR FOOTINGS SHALL BE COMPACTED AS REQUIRED BY THE SOILS REPORT NOTED IN ITEM #2.

ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST.

THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS.

ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE AND REINFORCING

ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) LATEST EDITIONS.

ALL NORMAL WEIGHT CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI,(3500 PSI FOR SLABS).

ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED AS RECOMMENDED BY ACI 318.

TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI-301.

REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 315 AND 315R.

PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.

THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THE SUB-CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE AISC "CODE OF STANDARD PRACTICE".

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

ANCHOR BOLTS	A307
HIGH STRENGTH STRUCTURAL BOLTS	A325-N U.N.O.
STRUCTURAL SHAPES AND PLATES	A36 (MIN.)
STRUCTURAL TUBING	A500 GRADE B

ALL WELDING ELECTRODES SHALL BE E70-XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.S. D1.1-02 "CODE FOR WELDING IN BUILDING CONSTRUCTION" AND SHALL BE MADE BY CERTIFIED WELDERS.

LIGHT GAGE METAL FRAMING

16 GA. AND HEAVIER STUDS SHALL HAVE A MINIMUM YIELD STRESS OF 50,000 PSI. 18 GA. AND LIGHTER STUDS AND TRACKS SHALL HAVE A MINIMUM YIELD STRESS OF 33,000 PSI.

STUDS AND TRACKS SHALL BE 18 GA. MINIMUM U.N.O. THEY SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES, INC. OR APPROVED EQUAL.

PROVIDE DOUBLE STUDS FOR FULL HEIGHT OF WALL EACH SIDE OF ALL OPENINGS UNLESS OTHERWISE NOTED. WELD STUDS TO EACH OTHER WITH 1 1/2" LONG 1/8" FILLET WELDS AT 12" O.C. EACH SIDE. PROVIDE STUD TRACK AT EACH HEAD AND SILL.

REFER TO PLANS AND DETAILS FOR CONNECTION OF STUD WALLS TO FOUNDATION, FLOOR OR ROOF.

STEEL JOISTS

STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS. PROVIDE ALL ACCESSORIES NECESSARY FOR COMPLETE INSTALLATION OF ALL STEEL JOISTS, INCLUDING BRIDGING, AS REQUIRED BY THE DRAWINGS AND THE STEEL JOIST INSTITUTE SPECIFICATIONS.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704 OF THE 2003 IBC AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1704. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2003 IBC SECTIONS/LOCATIONS:

1. SOILS - SECTION 1704.7 PER TABLE 1704.7.
2. CONCRETE - SECTION 1704.4 PER TABLE 1704.4.
3. STEEL - SECTION 1704.3 PER TABLE 1704.3.
4. MASONRY - SECTION 1704.5 PER TABLE 1704.5.1.

METAL DECK

ALL METAL DECK SHALL BE DETAILED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS, LATEST EDITION.

ALL METAL DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS, EXCEPT WHERE STEEL LAYOUT DOES NOT PERMIT.

METAL ROOF DECK SHALL 18 GAUGE, 1 1/2" DEEP, TYPE B, 36/5 FASTENER LAYOUT EID RIB METAL DECK, PAINTED.

METAL DECK SHALL BE ATTACHED TO ALL SUPPORTS WITH 5/8" DIA. PUDDLE WELDS AT 12" O.C. AND 6" O.C. AT ALL PERIMETER SUPPORTS. PROVIDE A MINIMUM OF ONE #10 TEK SCREWED SIDELAP CONNECTION PER TRUSS BAYS OR AS SHOWN ON PLANS.

SAWN LUMBER

ALL GRADES OF LUMBER SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). LUMBER GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%:

- SOUTHERN PINE NO. 1.
- DOUGLAS FIR-LARCH NO. 1.
- HEM-FIR NO. 1

BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE OR TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE, 2003 EDITION, IF NO OTHER CRITERIA IS GIVEN.

CONNECTORS SHOWN ON THE DETAILS ARE MANUFACTURED BY SIMPSON. WRITTEN APPROVAL BY ENGINEER REQUIRED FOR SUBSTITUTIONS.

WALL SHEATHING

ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATION, LATEST EDITION.

SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM. WALL SHEATHING SHALL BE 5/8" THICK EXTERIOR GRADE GYPSUM BOARD SHEATHING. FASTEN TO SUPPORTS WITH #10 SCREWS @ 4" O.C. AT ALL PANEL EDGES AND 7" ON CENTER AT INTERMEDIATE SUPPORTS, U.N.O.

REFER TO DRAWINGS FOR SPECIAL SHEATHING OR NAILING REQUIREMENTS. THE SHEATHING SHALL NOT BE USED AS A NAILING EDGE.

MASONRY

CONCRETE BLOCK DESIGN AND CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530-02/ASCE 5-02/TMS 402-02.

MASONRY MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS:

- HOLLOW LOAD BEARING CONCRETE BLOCK: ASTM C-90, GRADE N1
- MORTAR: ASTM C-270, TYPE S
  MINIMUM COMPRESSIVE STRENGTH = 1800 PSI AT 28 DAYS.
- MORTAR: ASTM C-270, TYPE M
  MINIMUM COMPRESSIVE STRENGTH = 2500 PSI AT 28 DAYS
  (USED FOR BELOW GRADE WORK)
- GROUT: ASTM C-476,
  MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS
- MASONRY REINFORCEMENT: ASTM A-82,
  GALVANIZED MASONRY PRISM STRENGTH: F'm = 1500 PSI

PRIOR TO DELIVERY OF MASONRY UNITS TO THE JOB SITE, FURNISH TO THE OWNER AFFIDAVITS FROM AN APPROVED TESTING LABORATORY CERTIFYING THAT ALL UNITS CONFORM TO THEIR RESPECTIVE ASTM REQUIREMENTS.

GROUT ALL CAVITIES CONTAINING REINFORCEMENT IN LIFTS NOT TO EXCEED 4'-0".

LABORATORY PREPARED MIXES SHALL BE PREPARED AND TESTED IN ACCORDANCE WITH ASTM C-270. FIELD MORTAR SHALL BE TESTED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH ASTM C-780 TWO SETS OF THREE MORTAR CUBES SHALL BE TAKEN DIRECTLY FROM THE MIXER FOR EACH DAY OF MASONRY WORK. TEST THE CUBES AT 28 DAYS. ACCEPTANCE OF THE MORTAR SHALL BE AT THE DISCRETION OF THE ENGINEER.

PROVIDE STANDARD DUR-O-WALL OR EQUIVALENT REINFORCEMENT AT EVERY SECOND BLOCK COURSE IN ALL WALLS UNLESS MORE RESTRICTIVE REQUIREMENTS ARE NOTED.

CALCIUM CHLORIDE AND/ OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE INCLUDED IN MORTAR OR GROUT MIX, EXCEPT WHEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO ANTI FREEZE COMPOUNDS SHALL BE USED TO LOWER THE MORTAR'S FREEZING POINT.

NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT, UNLESS THE RECOMMENDATIONS SPECIFIED BY THE INTERNATIONAL MASONRY INDUSTRY ALL WEATHER COUNCIL IN THEIR PUBLICATION "RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY" ARE STRICTLY FOLLOWED.

THE MASONRY CONTRACTOR SHALL PROVIDE BRACING TO WITHSTAND HORIZONTAL PRESSURES AS REQUIRED BY THE BUILDING CODE AND LOCAL ORDINANCE.

SHOP DRAWINGS

SHOP DRAWING SUBMITTALS SHALL CONSIST OF A MINIMUM OF 1 REPRODUCIBLE AND 1 BLUE PRINT OF EACH DRAWING.

SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR TO VERIFY THAT SUBMITTAL IS COMPLETE PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.

DRAWINGS CREATED BY THE McDONALD'S CORPORATION CANNOT BE REPRODUCED AND/OR USED AS A SHOP DRAWING SUBMITTAL.

SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING:
1. CONCRETE MIX DESIGN
2. FOUNDATION REINFORCING BARS
3. STRUCTURAL STEEL
4. STRUCTURAL MASONRY
5. STEEL JOISTS AND CALCULATIONS
6. METAL DECK
7. TRELLIS SYSTEM & CALCULATIONS

MISCELLANEOUS

ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.

DO NOT SCALE THE DRAWINGS.

REV	DATE	DESCRIPTION	BY

T. P. TILLES 032766 REGISTERED PROFESSIONAL ENGINEER STATE OF TENNESSEE

01/23/09

REVIEWED BY:

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PREPARED FOR: McDonald's USA, LLC

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DRAWN BY	ELR
STD ISSUE DATE	JAN 2008
REVIEWED BY	JPT
DATE ISSUED	1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 4511 4+5R MASONRY/STEEL BLDG

DESCRIPTION	
SITE ID	041-0084
SITE ADDRESS	1700 South Roane Street, Harriman, TN 37748
6" CMU BEARING WALLS + 4" FACE BRICK	
BAR JOIST ROOF FRAMING	
CULTURED STONE ARCADES	

SHEET NO. 041-0084-00-0

S4.0 SCHED & NOTES

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COORDINATION SCHEDULE

ABBREVIATIONS:
GC = GENERAL CONTRACTOR
EC = ELECTRICAL CONTRACTOR
FPC = FIRE PROTECTION CONTRACTOR
BSI = BEVERAGE SYSTEM INSTALLER
MC = MECHANICAL CONTRACTOR
TAB = TESTING, ADJUSTING & BALANCING CONTRACTOR
FAC = FIRE ALARM CONTRACTOR
KEI = KITCHEN EQUIPMENT INSTALLER
PC = PLUMBING CONTRACTOR
KES = KITCHEN EQUIPMENT SUPPLIER
ACM = AREA CONSTRUCTION MANAGER

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

NOTES:
1. ALL WORK SHALL BE COORDINATED BETWEEN THE McDONALD'S AREA CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ALL SUBCONTRACTORS, KITCHEN EQUIPMENT SUPPLIER AND DECOR PACKAGE SUPPLIER AND INSTALLER.

2. ONE (1) COPY OF THE DECOR PACKAGE DRAWINGS SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR AND EACH OF THE SUBCONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS TO INSURE THAT THEY HAVE RECEIVED THE DECOR PACKAGE DRAWINGS.

3. FOR ANY WORK NOT CLARIFIED IN THIS SCHEDULE OR IN THE NOTES AND SPECIFICATIONS, PLEASE CONSULT THE McDONALD'S AREA CONSTRUCTION MANAGER FOR SCOPE OF WORK.

4. ALL ROOFTOP UNIT EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND THE KITCHEN EQUIPMENT SUPPLIER SHALL BE ON SITE AT THE SAME TIME FOR A SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED BETWEEN THE AREA CONSTRUCTION MANAGER, MECHANICAL CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER.

5. ALL ROOFTOP UNITS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY EQUIPMENT. THE INSTALLATION OF STANDARD EFFICIENCY ROOFTOP UNITS IS PROHIBITED.

6. ALL KITCHEN EQUIPMENT REQUIRING EXHAUST SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE REPORTED TO THE AREA CONSTRUCTION MANAGER AND THE ENGINEER-OF-RECORD.

7. WHERE GYPSUM BOARD CEILINGS ARE INSTALLED, THE MECHANICAL CONTRACTOR SHALL SUPPLY DRYWALL MOUNTING FRAMES FOR LAY-IN TYPE DIFFUSERS.

8. ALL WORK SHOWN ON P2 DRAWING(S) SHALL BE COMPLETED BY THE BEVERAGE SYSTEM INSTALLER (OR K.E.S.) UNLESS OTHERWISE NOTED IN THE PLUMBING DRAWINGS.

9. ALL WORK ON P1 DRAWING(S) SHALL BE BY THE PLUMBING CONTRACTOR.

10. THE BEVERAGE SYSTEM INSTALLER FURNISHES, RUNS AND CONNECTS ALL FLEXIBLE WATER AND SYRUP LINES FOR ALL AFFECTED EQUIPMENT INCLUDING THE FOLLOWING:
A. HOT CHOCOLATE
B. COFFEE BREWER
C. ICE MACHINE
D. O.J.
E. SODA TOWERS

11. ALL WATER HEATERS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY SEALED-COMBUSTION WATER HEATERS. THE INSTALLATION OF STANDARD EFFICIENCY GRAVITY-VENTED WATER HEATERS IS PROHIBITED.

12. THE AREA CONSTRUCTION MANAGER, PLUMBING CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE WHICH 3-COMPARTMENT SINK IS BEING INSTALLED IN THE RESTAURANT. NOTE: THE INSTALLATION OF A POWERSOAK SINK REQUIRES A LARGER WATER HEATER THAN THE STANDARD 3-COMPARTMENT SINK.

13. ALL GAS PIPING FOR COOKING EQUIPMENT SHALL TERMINATE IN THE CEILING PRIOR TO THE INSTALLATION OF THE PIPING CHASE. UPON INSTALLATION OF THE CHASE, THE GAS PIPING SHALL THEN BE CONTINUED IN THE CHASE FOR FINAL CONNECTION TO THE APPLIANCE.

14. ALL GAS PIPING FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE PLUMBING CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.

15. ALL FIRE PROTECTION DRAWINGS CONTAINED WITHIN THIS SET ARE STRICTLY FOR REFERENCE ONLY. FIRE SPRINKLER DRAWINGS SHALL BE DESIGNED AND PERMITTED BY A FIRE PROTECTION CONTRACTOR.

16. ALL R-102 WET CHEMICAL FIRE SUPPRESSION SYSTEMS FOR TYPE I HOODS SHALL BE DESIGNED AND INSTALLED BY A LOCAL ANSUL AGENT. THE USE OF DRY CHEMICAL SYSTEMS IS PROHIBITED. THE LOCAL ANSUL AGENT CONTRACT IS HANDLED THROUGH THE KITCHEN EQUIPMENT SUPPLIER.

17. ALL ROOFTOP UNITS AND EXHAUST FANS ARE SUPPLIED WITH A FACTORY-INSTALLED DISCONNECT SWITCH.

18. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR REMOTE CONDENSING UNITS.

19. ALL ELECTRICAL CONDUITS FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY FIPE PORTALS ON ROOF.

20. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

21. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

22. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

23. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

24. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

25. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.

26. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.

27. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.

28. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.

MECHANICAL NOTES

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

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

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

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

5. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.

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

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

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

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

2. ALL DUCTWORK DIMENSIONS ARE INTERNAL FREE AREA DIMENSIONS AND SIZED FOR 0.1" W.C. PER 100 FT. OF DUCT.

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

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

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

6. ALL DUCTWORK BRANCHES SHALL BE SUPPLIED WITH A VOLUME DAMPER TO FACILITATE BALANCING.

7. ALL STARTING COLLARS SHALL BE SPIN-IN TYPE WITH AN INTEGRAL VOLUME DAMPER.

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

9. ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED WITHIN THE CEILING SPACE SHALL BE EXTERNALLY WRAPPED WITH A FIELD-APPLIED INSULATION HAVING AN INTEGRAL VAPOR BARRIER AND A MINIMUM INSTALLED INSULATION VALUE OF R-5.

10. ALL SUPPLY AND RETURN SHEET METAL DUCTWORK LOCATED OUTSIDE OF THE BUILDING SHALL BE INTERNALLY LINED WITH A MINIMUM R-8 INSULATION VALUE.

11. ALL DUCTWORK PENETRATIONS THROUGH FIRE-RATED WALLS, BARRIERS OR PARTITIONS SHALL BE PROTECTED WITH A FIRE DAMPER IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS. THE PERIMETER OF THE FIRE DAMPER SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING MATERIAL.

12. ALL EXTERIOR SHEET METAL DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH AN APPROVED WEATHERPROOFING MATERIAL TO PROTECT AGAINST WATER PENETRATION AND CORROSION.

13. ALL FLEXIBLE DUCTWORK, METALLIC AND NONMETALLIC, SHALL CONFORM TO THE FOLLOWING:
A. MINIMUM INSTALLED INSULATION VALUE OF R-5
B. INTEGRAL VAPOR BARRIER
C. LISTED AND LABELED UL 181, CLASS 0 OR CLASS 1
D. INSTALLED IN ACCORDANCE WITH:
I. SMACNA STANDARDS,
II. AIR DIFFUSION COUNCIL INSTALLATION GUIDELINES, AND/OR
III. MANUFACTURER'S INSTALLATION INSTRUCTIONS

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

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

16. DUCT-MOUNTED SMOKE DETECTORS 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.

VENTILATION SYSTEMS (CONT.):
17. ALL SUPPLY AIR DIFFUSERS SHALL BE INSULATED TO PREVENT CONDENSATION.

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

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

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

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

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

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

4. ALL GREASE EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED WITH A UL 2221 LISTED AND LABELED GREASE DUCT ENCLOSURE SYSTEM. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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

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

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

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

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

3. ALL REFRIGERANT LIQUID LINES SHALL BE INSULATED TO PREVENT AGAINST CONDENSATION.

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

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

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

CO2 DETECTION EQUIPMENT:
1. THE POWER SUPPLY/CENTRAL STATION FOR THE CO2 DETECTION SYSTEM SHALL BE HARD-WIRED TO PREVENT TAMPERING. THE LOCATION OF THE POWER SUPPLY SHALL BE COORDINATED BETWEEN THE McDONALD'S AREA CONSTRUCTION MANAGER AND THE MECHANICAL AND ELECTRICAL CONTRACTORS.

2. A CO2 DETECTOR SHALL BE INSTALLED AT 12" A.F.F. WITHIN A 5 FT. RADIUS OF THE CO2 STORAGE TANKS.

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

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

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
T	THERMOSTAT	2	DUCT-MOUNTED SMOKE DETECTOR
D-1	EQUIPMENT TAG SEE EQUIPMENT SCHEDULES		BLACK IRON EXHAUST DUCT BY KITCHEN EQUIPMENT SUPPLIER (K.E.S.) WITH FIRE-RATED GREASE DUCT WRAP (THICKNESS DETERMINED BY LOCAL CODE)
A 200	DIFFUSER TYPE CFM QUANTITY SEE DIFFUSER SCHEDULE		SHEET METAL TEE FOR FLEXIBLE DUCTWORK WITH EXTERNAL INSULATION
SUPPLY / RETURN/ EXHAUST	DUCT DROP		EXTERNALLY INSULATED SHEET METAL DUCTWORK
D-1 TS TS TS	AVERAGING TEMPERATURE SENSOR/TEMPERATURE SENSOR/HUMIDITY SENSOR WITH EQUIPMENT SERVED INDICATED	VD	DUCT-MOUNTED VOLUME DAMPER
10"	INSULATED FLEXIBLE DUCTWORK WITH SIZE INDICATED		SPIN-IN TYPE STARTING COLLAR WITH INTEGRAL VOLUME DAMPER

BY	DESCRIPTION	DATE	REV

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

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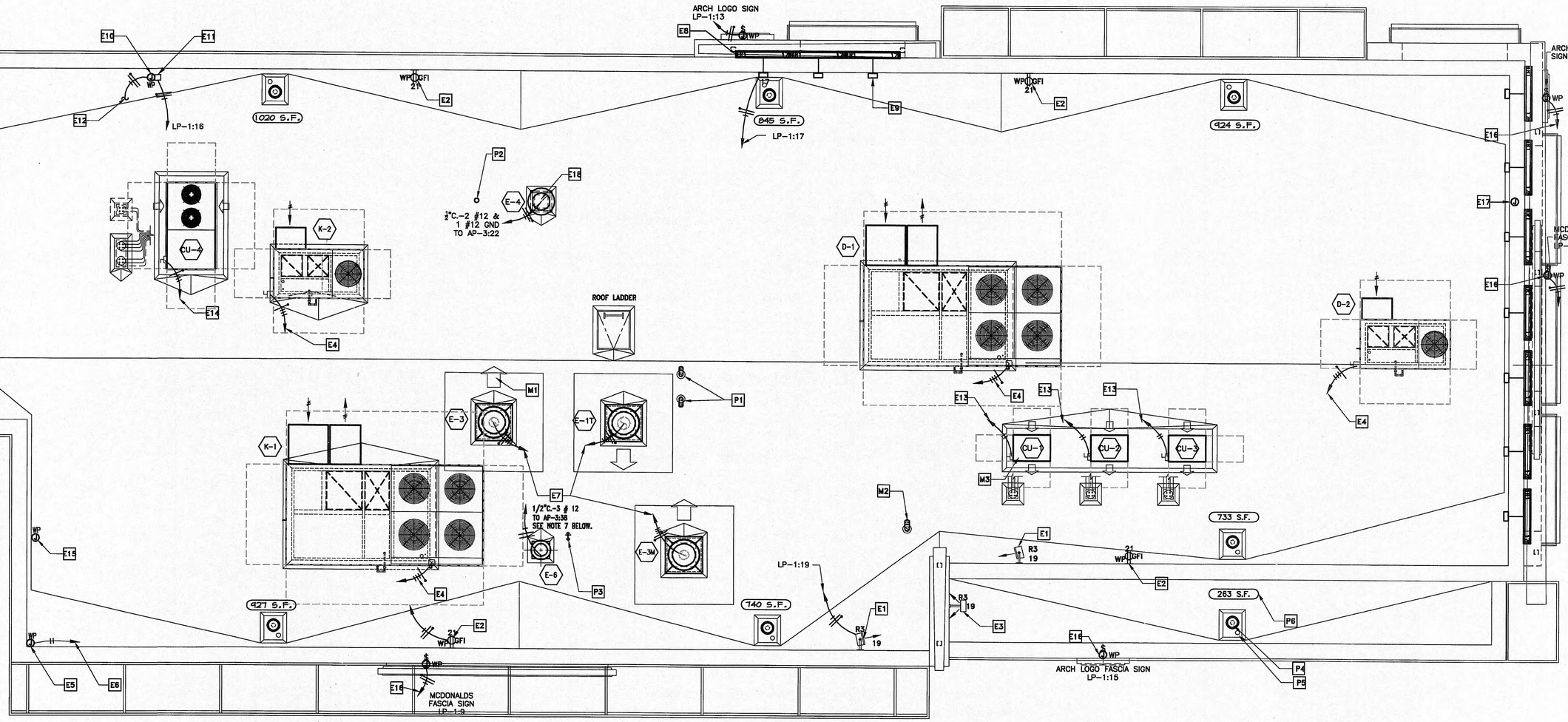
STD ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES
SITE ID: 041-0084
SITE ADDRESS: 1705 South Rome Street, Harriman, TN 37748

SHEET NO.: 041-0084-00-0
M0.0
GENERAL NOTES



COORDINATED ROOF PLAN

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

DRAWING NOTES

1. SEE DRAWING M-0.0 FOR GENERAL MECHANICAL NOTES.
2. SEE DRAWINGS M-3.0 AND M-3.1 FOR MECHANICAL EQUIPMENT SCHEDULES AND DETAILS.
3. SEE DRAWING M-0.0 FOR MECHANICAL LEGEND.
4. SEE DRAWING K-2.1 FOR REMOTE CONDENSER AND MAC UNIT INFORMATION.
5. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEYED NOTES

M1 INSTALL EXHAUST FANS TO OPEN IN DIRECTION OF ARROW (TYP.).

M2 4"ø ALUMINUM EXHAUST DUCT WITH GOOSENECK FROM EXHAUST FAN (E-5).

M3 REMOTE CONDENSERS SHALL BE FURNISHED BY KITCHEN EQUIPMENT SUPPLIER AND SET BY MECHANICAL CONTRACTOR.

P1 WATER HEATER INTAKE AND VENT FOR SEALED COMBUSTION WATER HEATER – TERMINATE WITH GOOSENECK A MINIMUM OF 1'-0" ABOVE THE ROOF.

P2 4" PLUMBING VENT.

P3 YARD HYDRANT.

P4 4" PRIMARY ROOF DRAIN WITH DOME STRAINER (TYP.).

P5 4" OVERFLOW ROOF DRAIN (TYP.).

P6 AREA OF ROOF SERVED BY ROOF DRAIN (TYP.).

E1 FIXTURES W/ WALL MOUNT BRACKET FOR SIGNATURE ROOF ELEMENTS; ORDERED FROM SECURITY LIGHTING. GC/EC SHALL LOCATE, INSTALL, AND ADJUST FIXTURES TO FOCUS LIGHT ONLY ON THE HEARTH SIGNATURE SIGN. MOUNT FIXTURE SO THAT IT IS NOT VISIBLE ABOVE PARAPET. (TYP. OF 2. SEE SHEET E2.0 FOR FIXTURE SCHEDULE).

E2 PROVIDE A WEATHER PROOF "IN USE" TYPE COVER TO COMPLY WITH NEC CODE REQUIREMENTS (TYPICAL).

E3 E.C. SHALL MOUNT LIGHT FIXTURE APPROXIMATELY 4" ABOVE ROOF FLASHING.

E4 REFER TO SHEET E4.0 FOR CONDUIT AND WIRE SIZE.

E5 E.C SHALL PROVIDE A WEATHER-PROOF J-BOX ON INSIDE FACE OF PARAPET, MOUNTED 6" BELOW TOP OF PARAPET FOR OPTIONAL LIGHTING CONTROL PANEL PHOTOCELL. (PHOTOCELL FURNISHED BY OTHERS AND INSTALLED BY EC).

E6 1/2"C-2#12 TO OPTIONAL LIGHTING CONTROL ENCLOSURE W/ TIMER. SEE DWG E1.1 FOR LOCATION.

E7 COOKING EQUIPMENT EXHAUST FANS. SEE SHEET E3.0 FOR ELECTRICAL REQUIREMENTS. SEE SHEET E4.0 FOR EXHAUST FAN INTERLOCK WIRING DIAGRAMS.

E8 CUSTOM FIXTURES FOR ROOF CAP ELEMENT CHANNEL; ORDERED FROM SECURITY LIGHTING. VERIFY DISTANCES BETWEEN SUPPORTS FOR SIGNATURE ROOF ELEMENT PRIOR TO ORDERING. ORDER 3' FIXTURES (R2) AS REQUIRED. SEE MOUNTING DETAIL ON SHEET E4.1

E9 E.C. SHALL INSTALL BALLAST BOX FOR ELECTRONIC BALLASTS AND MOUNT TO INNER PARAPET WALL (TYPICAL) VERIFY EXACT MOUNTING LOCATION WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

E10 E.C SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX ON INSIDE OF FACE OF PARAPET FOR PHOTOCELL INSTALLATION. MOUNT JB 6" BELOW TOP OF PARAPET. PHOTOCELL FURNISHED AND INSTALLED BY EC.

E11 PHOTOCELL ON ROOF (SEE SHEET E2.0 FOR CONTINUATION AT DOOR LOCATIONS).

E12 TO SOFFIT LIGHT FIXTURES NEAR DOORS. SEE SHEET E2.0 FOR CONTINUATION. TYPICAL FOR CCT LP-1:16.

E13 REMOTE CONDENSING UNITS. SEE SHEET E3.0 FOR WIRING AND CIRCUITRY REQUIREMENTS.

E14 MCDONALDS CONDENSING UNIT (MAC-UNIT). SEE SHEET E3.0 FOR WIRING AND CIRCUITRY REQUIREMENTS.

E15 E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX ACCESSIBLE ABOVE CEILING WITH ¾"C STUB DOWN WITH BUSHING FOR ROOF-TOP CAMERA OR SATELITE. VERIFY EXACT LOCATION(S) WITH MCD AREA CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

E16 E.C. SHALL PROVIDE A JUNCTION BOX FOR ARCH LOGO / McDONALD'S FASCIA / PLAY-PLACE SIGN. SEE NOTE L1 ON SHEET E3.1. COORDINATE EXACT LOCATION IN FIELD WITH ACM. ALL SIGNS PROVIDED WITH INTEGRAL DISCONNECT SWITCH FROM MANUFACTURER.

E17 E.C. SHALL PROVIDE A JUNCTION BOX FOR ROOF-TOP FLAG POLE LIGHTING. VERIFY LOCATION(S) WITH MCD PROJECT MANAGER PRIOR TO INSTALLATION.

E18 DISCONNECT SWITCH AND J-BOX PROVIDED AND MOUNTED AT MOTOR COMPARTMENT BY MANUFACTURER. ELECTRICAL CONTRACTOR SHALL STUB-UP THRU RACEWAY IN CURB TO ELIMINATE CONDUIT PENETRATION OF ROOFING. DISCONNECT SWITCH SHALL REMAIN ACCESSIBLE WHEN ALL COVERS ARE IN PLACE.

BY	DESCRIPTION	DATE	REV

PREPARED BY:
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Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE
TP/CC	JAN 2008

REVIEWED BY	DATE ISSUED
MP/TW	1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES

SITE ADDRESS
SITE ID 041-0084
1705 South Rome Street,
Harriman, TN 37748

SHEET NO.
041-0084-00-0
M1.0
ROOF PLAN

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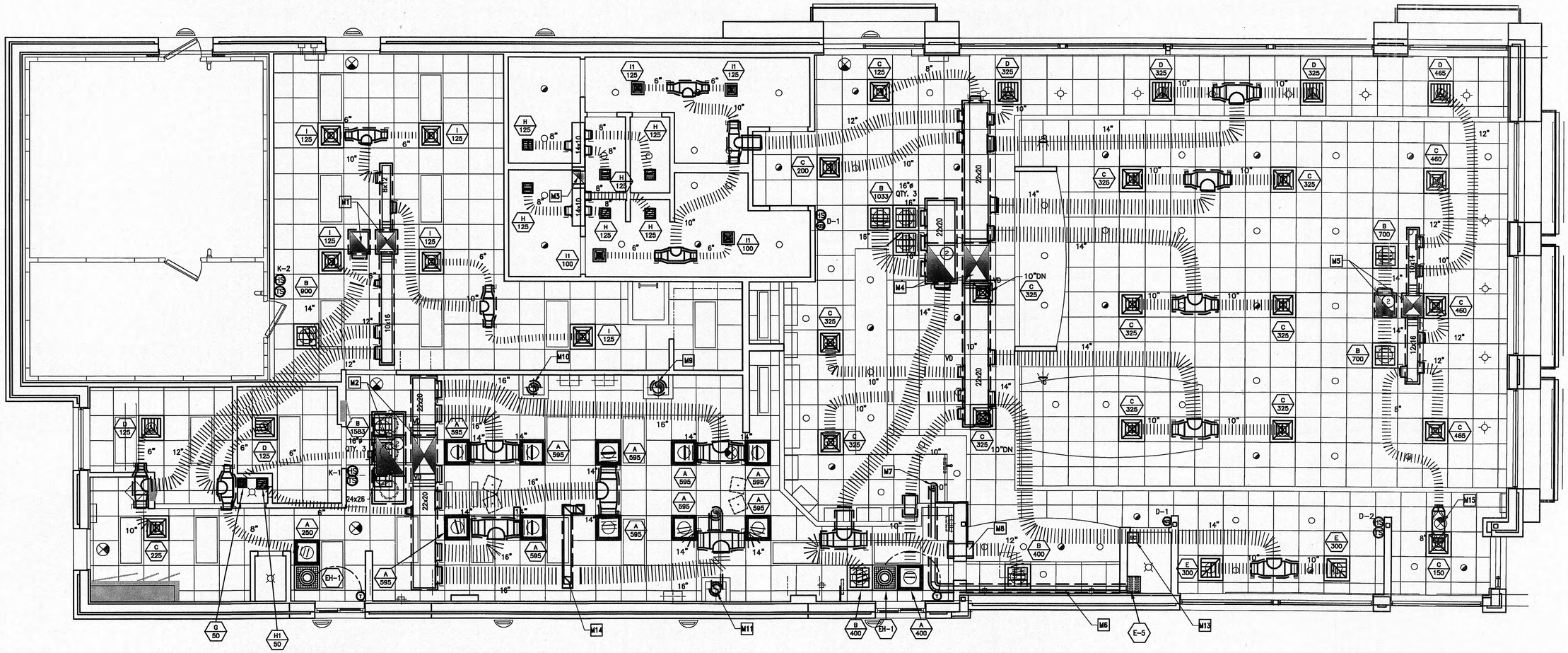

MECHANICAL PLAN

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

DRAWING NOTES

1. SEE DRAWING M-0.0 FOR GENERAL MECHANICAL NOTES.
2. SEE DRAWINGS M-3.0 AND M-3.1 FOR MECHANICAL EQUIPMENT SCHEDULES AND DETAILS.
3. SEE DRAWING M-0.0 FOR MECHANICAL LEGEND.

KEYED NOTES

- M1 17x19 SUPPLY AND RETURN DUCT DROPS FROM HVAC UNIT (K-2); TRANSITION SUPPLY AND RETURN DUCTS IN CURB FROM 17x19 TO 19x19
- M2 22x35 SUPPLY AND 26x35 RETURN DUCT DROPS FROM HVAC UNIT (K-1); TRANSITION RETURN DUCT IN CURB FROM 26x35 TO 32x35.
- M3 12x12 DUCT DROP FROM EXHAUST FAN (E-4).
- M4 22x35 SUPPLY AND 26x35 RETURN DUCT DROPS FROM HVAC UNIT (D-1); TRANSITION RETURN DUCT IN CURB FROM 26x35 TO 32x35.
- M5 17x19 SUPPLY AND RETURN DUCT DROPS FROM HVAC UNIT (D-2); TRANSITION SUPPLY AND RETURN DUCTS IN CURB FROM 17x19 TO 19x19
- M6 EXTERNALLY INSULATE EXHAUST DUCT FROM FAN TO ROOF PENETRATION.
- M7 4"ø DUCT FROM EXHAUST FAN (E-5) UP THROUGH ROOF.
- M8 PROVIDE EXTERNALLY INSULATED SHEET METAL DUCT AT ALL DRAFTSTOP WALL PENETRATIONS (TYP.).
- M9 11¼"ø BLACK IRON EXHAUST DUCT UP TO EXHAUST FAN (E-1T).
- M10 9"ø BLACK IRON EXHAUST DUCT UP TO EXHAUST FAN (E-3).
- M11 10"ø BLACK IRON EXHAUST DUCT UP TO EXHAUST FAN (E-3M).
- M12 8"ø ROUND DUCT, TRANSITION TO A 12x4 SHEET METAL TRANSITION UNDER BEAM.
- M13 STEADY STATE SPEED CONTROLLER FOR JANITOR'S CLOSET EHAUST FAN (E-5) MOUNTED ABOVE CEILING.
- M14 8"x8" EXHAUST DUCT FOR TYPE II BISCUIT OVENS HOOD GD3 (L=32", W=36", H=24") UP TO EXHAUST FAN (E-6) BY K.E.S.
- M15 8"ø ROUND DUCT, TRANSITION TO A 12x4 SHEET METAL TRANSITION UNDER BEAM.

AIR BALANCE SCHEDULE

UNIT	SUPPLY AIR	RETURN AIR	OUTDOOR AIR	EXHAUST AIR	PRESSURE
BASE BUILDING					
K-1	6000	4800 (5138)	1200 (862)		+1200 (862)
K-2	1350	900	450		+450
D-1	6000	3900	2100		+2100
D-2	2000	1400	600		+600
E-1T				1175 (837)	-1175 (837)
E-3M				980	-980
E-3				720	-720
E-4				750	-750
E-5				50	-50
E-6				450	-450
TOTALS	15350	11000 (11338)	4350 (4012)	4125 (3787)	+225 (225)

NOTES:
1. TEST AND BALANCE SHALL BE PERFORMED BY AN AABC OR NEBB CERTIFIED TEST AND BALANCE COMPANY.
2. THE NUMBERS IN PARENTHESES REPRESENT THE AIR QUANTITIES WHEN THE GRILL FAN OPERATES AT LOW SPEED. THE GRILL FAN OPERATES AT LOW SPEED ONLY WHEN THERE IS A "NO LOAD" CONDITION AND THE GRILL IS IN "STANDBY."

REV	DATE	DESCRIPTION	BY

PREPARED BY:
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Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: TP
STD ISSUE DATE: JAN 2008
REVISED BY: MR/TW
PRINT ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK; BAR JOIST ROOF FRAMING; CULTURED STONE ARCHES
SITE ID: 041-0084
SITE ADDRESS: 1708 South Roane Street, Harriman, TN 37748

SHEET NO.: 041-0084-00-0
M2.0
MECHANICAL PLAN

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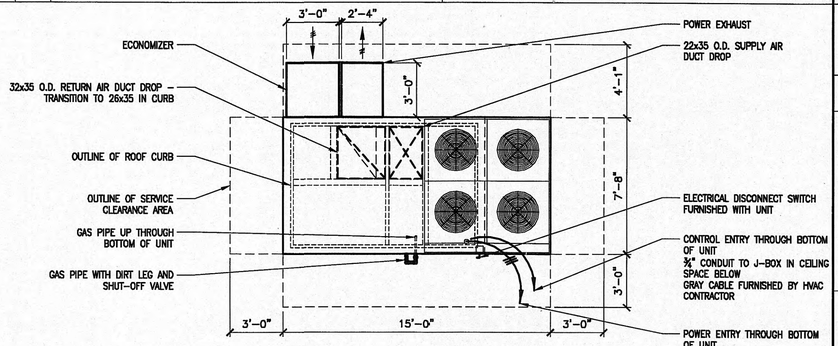
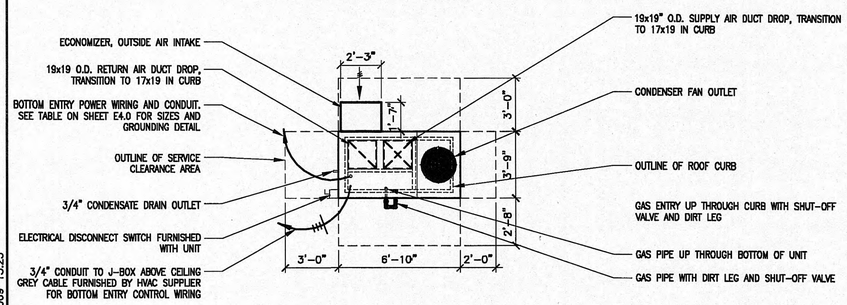
ROOFTOP UNITS

NO SUBSTITUTIONS ARE PERMITTED

TAG	TONS	DESCRIPTION	
D-1	15	YORK PACKAGED GAS/ELECTRIC ROOFTOP UNIT MODEL DR180N3202B-MB WITH ECONOMIZER AND POWER EXHAUST COOLING CAPACITY: 174 MBH, 10.8 EER, 11.6 IPLV (ARI RATINGS) HEATING CAPACITY: 300 MBH IN, 274 MBH OUT NOMINAL 6000 CFM @ 1.0" E.S.P. – 7.5 H.P. BELT DRIVE MOTOR MCA: 77.5 MOCP: 90 (208V/3ø/60Hz) UNIT WEIGHT: 2,815 LBS. CURB WEIGHT: 185 LBS.	ALL UNITS ARE FURNISHED WITH THE FOLLOWING: – METAL FILTER FRAMES WHICH ACCEPT 1" THICK REPLACEABLE MEDIA – LOW LIMIT DISCHARGE THERMOSTAT & COMPRESSOR LOCKOUT ("HIGH HEAT", DINING AREA UNITS ONLY) – GAS SHUT-OFF VALVE AND ENTRY PIPING (GAS HEAT UNITS ONLY) – CONDENSATE DRAIN TRAP – ROOF CURB – DISCONNECT SWITCH
K-1	15	YORK PACKAGED GAS/ELECTRIC ROOFTOP UNIT MODEL DR180N3202B-MA WITH ECONOMIZER AND POWER EXHAUST COOLING CAPACITY: 174 MBH, 10.8 EER, 11.6 IPLV (ARI RATINGS) HEATING CAPACITY: 300 MBH IN, 274 MBH OUT NOMINAL 6000 CFM @ 1.0" E.S.P. – 7.5 H.P. BELT DRIVE MOTOR MCA: 77.5 MOCP: 90 (208V/3ø/60Hz) UNIT WEIGHT: 2,815 LBS. CURB WEIGHT: 185 LBS.	
D-2	5	YORK PACKAGED GAS/ELECTRIC ROOFTOP UNIT MODEL DR060N10N2B-MA WITH ECONOMIZER AND BAROMETRIC RELIEF COOLING CAPACITY: 59.4 MBH, 13.0 SEER, 11.5 EER (ARI RATINGS) HEATING CAPACITY: 125 MBH IN, 100 MBH OUT NOMINAL 2000 CFM @ 0.9" E.S.P. – 1½ HP BELT DRIVE MOTOR MCA: 29.1 – MOCP: 35 – 208V/3ø/60Hz UNIT WEIGHT: 748 LBS. – CURB WEIGHT: 92 LBS.	CONTACT SHELLY DOUGLASS PHONE: (800)775-9675 FAX: (630)833-3113
K-2	3 1/2	YORK PACKAGED GAS/ELECTRIC ROOFTOP UNIT MODEL DR042N10N2B-MA WITH ECONOMIZER AND BAROMETRIC RELIEF COOLING CAPACITY: 45.5 MBH, 13.0 SEER, 11.5 EER (ARI RATINGS) HEATING CAPACITY: 125 MBH IN, 100 MBH OUT NOMINAL 1,350 CFM @ 0.9" E.S.P. – ½ HP BELT DRIVE MOTOR MCA: 21.9 – MOCP: 30 – 208V/3ø/60Hz UNIT WEIGHT: 696 LBS. – CURB WEIGHT: 92 LBS.	



YORK SUNLINE MAGNADRY 15-TON ROOFTOP UNIT
NO SCALE



YORK SUNLINE MAGNADRY 3-6 TON ROOFTOP UNIT
NO SCALE

EXHAUST FANS

NO SUBSTITUTIONS ARE PERMITTED

TAG	DESCRIPTION
E-1T	TWO-SPEED 6' CLAM SHELL GRILL FAN – 1175/837 CFM @ 1.0" S.P. GREENHECK MODEL McCUBE 142-5G-TSC WITH TWO-SPEED 1/2 H.P. MOTOR 120V/1ø/60Hz INCLUDE 18" CURB, ALUMINUM HINGED CURB CAP AND ELECTRICAL DISCONNECT SWITCH
E-3	3-BATTERY FRYER FAN – 720 CFM @ 1.0" S.P. GREENHECK MODEL McCUBE 142HP-5G WITH 1/2 H.P. MOTOR 120V/1ø/60Hz INCLUDE 18" CURB, ALUMINUM HINGED CURB CAP AND ELECTRICAL DISCONNECT SWITCH
E-3M	4-BATTERY FRYER FAN – 980 CFM @ 1.0" S.P. GREENHECK MODEL McCUBE 142HP-5G WITH 1/2 H.P. MOTOR 120V/1ø/60Hz INCLUDE 18" CURB, ALUMINUM HINGED CURB CAP AND ELECTRICAL DISCONNECT SWITCH
E-4	TOILET EXHAUST FAN – 750 CFM GREENHECK MODEL GB-091-4x WITH 1/4 H.P. MOTOR 120V/1ø/60Hz INCLUDE 12" CURB, BIRDSCREEN, BACKDRAFT DAMPER, AND ELECTRICAL DISCONNECT SWITCH
E-5	MOP SINK EXHAUST FAN – 50 CFM @ 0.25" S.P. GREENHECK MODEL SP-A90 120V/1ø/60Hz INCLUDE SPEED CONTROLLER – DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR
E-6	BISCUIT OVEN FAN – 450 CFM @ 1.0" S.P. GREENHECK MODEL McCUBE 101-HP-4 WITH 1/4 H.P. MOTOR 120V/1ø/60Hz INCLUDE 12" CURB, ALUMINUM HINGED CURB CAP AND ELECTRICAL DISCONNECT SWITCH

GREENHECK: (888)325-6529

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR WIRING AND CONTROL OF EXHAUST FANS.

RESTROOM EXHAUST FAN
NOT TO SCALE 15000-06

DUCT DROP INSTALLATION
NOT TO SCALE

HVAC CONTROLS

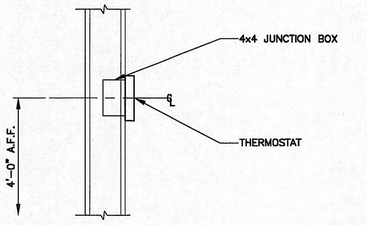
NO SUBSTITUTIONS PERMITTED

DESCRIPTION	MANUFACTURER	MODEL
THERMOSTAT (ROOFTOP UNITS)	HONEYWELL	T7350D1008
REMOTE TEMPERATURE SENSOR	HONEYWELL	T7770A1006
REMOTE AVERAGING TEMPERATURE SENSOR	HONEYWELL	T7770A3002
REMOTE HUMIDITY SENSOR	HONEYWELL	H7635A
THERMOSTAT (ELECTRIC HEATERS)	FURNISHED WITH ELECTRIC HEATER	

NOTES:
1. SENSOR SHALL BE LOCATED IN THE ZONE IT SERVES AS SHOWN ON THE MECHANICAL PLAN(S).
2. SEE DRAWING E4.0 FOR THERMOSTAT AND SENSOR WIRING DIAGRAMS.
3. ALL THERMOSTATS AND SENSORS SHALL BE ORDERED THROUGH HONEYWELL BY CALLING (800)575-4841.

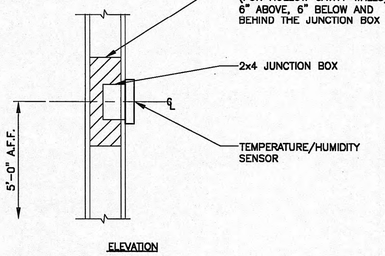
THERMOSTAT SETTINGS

		SETPOINTS	
MODE	FAN	COOLING	HEATING
OCCUPIED	ON	74°F	68°F
UNOCCUPIED	AUTO	90°F	55°F
HUMIDITY SETPOINT	60%		



ELEVATION

THERMOSTAT INSTALLATION
NOT TO SCALE



ELEVATION

REMOTE SENSOR INSTALLATION
NOT TO SCALE

CO2 DETECTION SYSTEM

NO SUBSTITUTIONS PERMITTED

DESCRIPTION	MANUFACTURER	MODEL
CO2 SYSTEM PACKAGE	HONEYWELL	Y7230A1013

NOTES:
1. CO2 DETECTION SYSTEM PACKAGE SHALL INCLUDE:
   – TWO (2) AUDIO/STROBE ALARMS
   – TWO (2) CO2 SENSORS
   – ONE (1) TRANSFORMER
   – TWO (2) LAMINATED WARNING SIGNS
2. SEE DRAWING M0.0 FOR CO2 DETECTION SYSTEM NOTES.
3. CO2 DETECTION SYSTEM SHALL BE ORDERED THROUGH HONEYWELL BY CALLING (800)575-4841.

ELECTRIC HEATERS

MANUFACTURER: MARKEL

TAG	OUTDOOR WINTER DESIGN TEMPERATURE PER ASHRAE	HEATER SIZE	MODEL
EH-1	25°F TO 40°F	2 KW	MCDF3482TA1S
	0°F TO 24°F	3 KW	MCDF3483TA1S
	BELOW 0°F	4 KW	MCDF3484TA1S

NOTES:
1. ALL CEILING RECESSED ELECTRIC HEATERS ARE 208V/1ø/60Hz AND INCLUDE THE FOLLOWING ACCESSORIES:
   – BUILT-IN LOW VOLTAGE TRANSFORMER
   – CONTACTOR
   – THERMOSTAT
   – DISCONNECT SWITCH
2. SEE SHEET E4.0 FOR ADDITIONAL ELECTRICAL INFORMATION
3. TO ORDER CALL (800)682-3398
4. ALTERNATIVE APPROVED MANUFACTURER: Q*MARK

AIR DEVICE SCHEDULE

TAG	SYMBOL/USE	MFR/MODEL/SIZE/ACCESS.	BORDER TYPE
A	SUPPLY AIR	TITUS MC PAR 24x24	LAY-IN
B	RETURN AIR	TITUS MC 23R 22x22	LAY-IN
C	SUPPLY AIR	TITUS MC TDC – 4-WAY 24x24	LAY-IN
D	SUPPLY AIR	TITUS MC TDC – 3-WAY 24x24	LAY-IN
E	SUPPLY AIR	TITUS MC TDC – 2-WAY CORNER 24x24	LAY-IN
G	SUPPLY AIR	TITUS MC 272R 6x6 OPPOSED BLADE DAMPER	SURFACE MOUNT
H	EXHAUST AIR	TITUS MC 23R 8x8 OPPOSED BLADE DAMPER	SURFACE MOUNT
H1	RETURN AIR	TITUS MC 23R 6x6 OPPOSED BLADE DAMPER	SURFACE MOUNT
I	SUPPLY AIR	TITUS MC TMS 24x24	LAY-IN
I1	SUPPLY AIR	TITUS MC TMS 12x12 OPPOSED BLADE DAMPER	LAY-IN W/DRYWALL FRAME

NOTES:
ALTERNATIVE APPROVED MANUFACTURER: PRICE

REV	DATE	DESCRIPTION	BY

PREPARED BY:
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Registered Engineer
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PREPARED FOR:
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DRAWN BY	CHECKED BY
TF	JBG
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TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

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SITE ID	SITE ADDRESS
041-0084	1705 South Roane Street, Harriman, TN 37748

SHEET NO.
041-0084-00-0
M3.0
DETAILS & SCHEDULES

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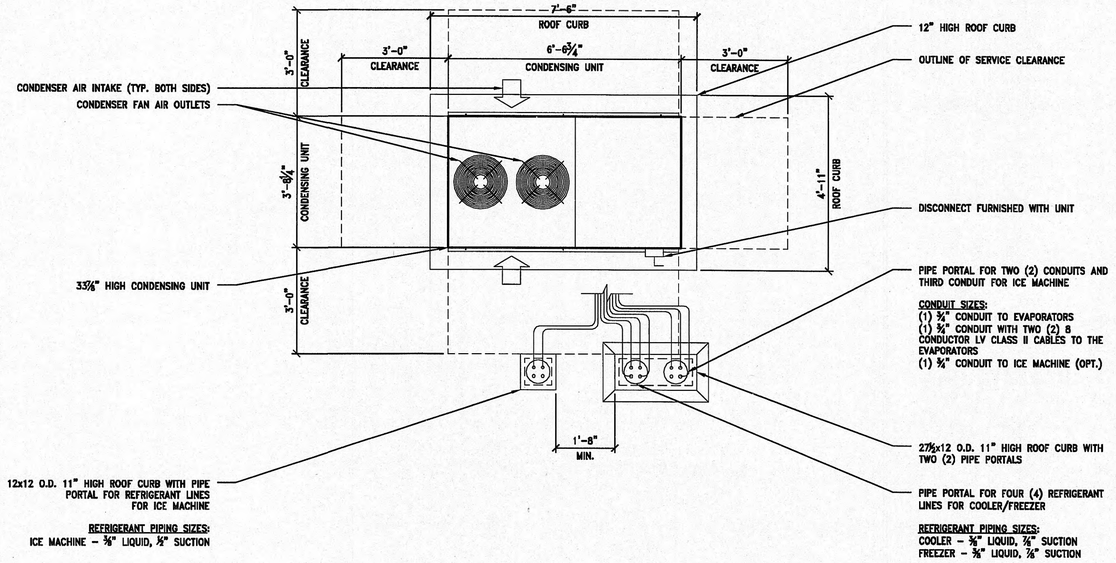
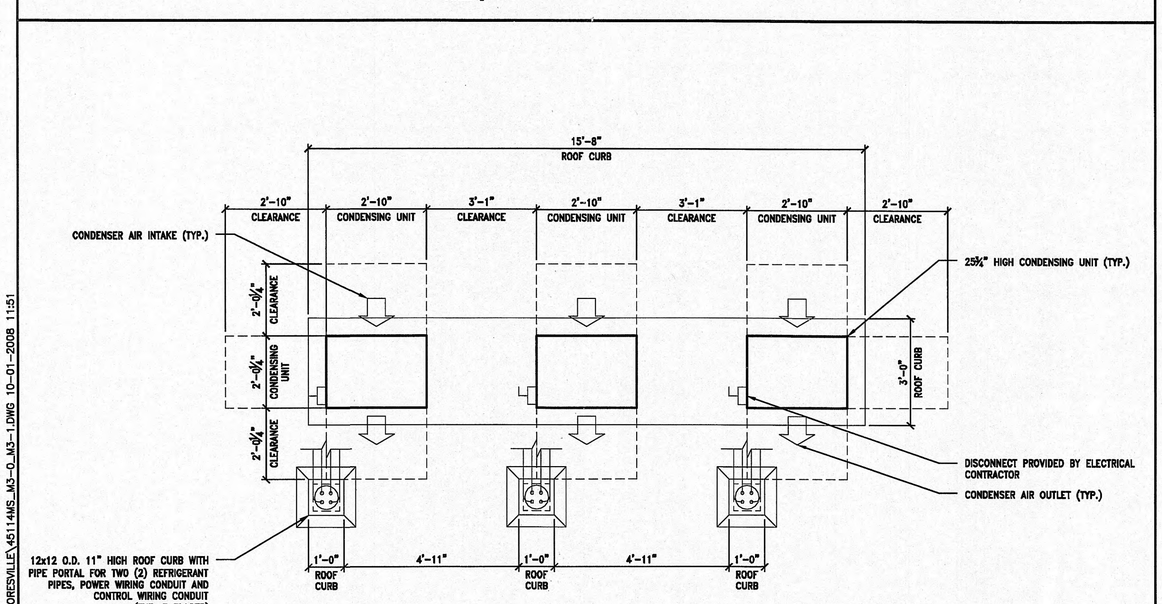


DETAIL

REMOTE CONDENSING UNIT FOR COOLER/FREEZER
BOHN MAC 7X UNIT
TAG: CU-4
SCALE: ½"=1'-0"

McDONALD'S KITCHEN EXHAUST SYSTEM INFORMATION

	UNIVERSAL TYPE I EXHAUST HOODS				UNIVERSAL TYPE II EXHAUST HOODS		
APPLIANCE	6' GRILL	3 VAT FRYER	4 VAT FRYER		BISCUIT OVEN		
EXHAUST HOOD MODEL No.	UH-83	UH-50	UH-65		GD3 32Lx36Wx24H		
EXHAUST HOOD LENGTH	83¾"	50"	65½"		32"		
HOOD MATERIAL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL		STAINLESS STEEL		
HOOD GAUGE	#16 MSG	#16 MSG	#16 MSG		#16 MSG		
NUMBER OF FILTERS	Four	Three	Four				
SIZE OF FILTERS (Actual)	10"x20"	10"x16"	10"x16"				
NET FILTER AREA (Each)	127.5 Sq. In.	97.5 Sq. In.	97.5 Sq. In.				
U.L. REQ'D. EXH. (Min.)	1162 CFM	692 CFM	913 CFM		410 CFM		
ACTUAL EXHAUST	1175 CFM	720 CFM	980 CFM		450 CFM		
U.L. LISTING No. (YYCW)	MH12755	MH12755	MH12755		MH11726		
FILTER VELOCITY (Gas/Hot)	250 FPM	255 FPM	260 FPM		332 FPM		
DUCT SIZE	11¼"ø	9"ø	10"ø		8"x8"		
DUCT MATERIAL	Black Iron	Black Iron	Black Iron		Black Iron		
DUCT GAUGE	#14 Ga	#14 Ga	#14 Ga		#14 Ga		
DUCT VELOCITY	1702 FPM	1630 FPM	1801 FPM		1012		

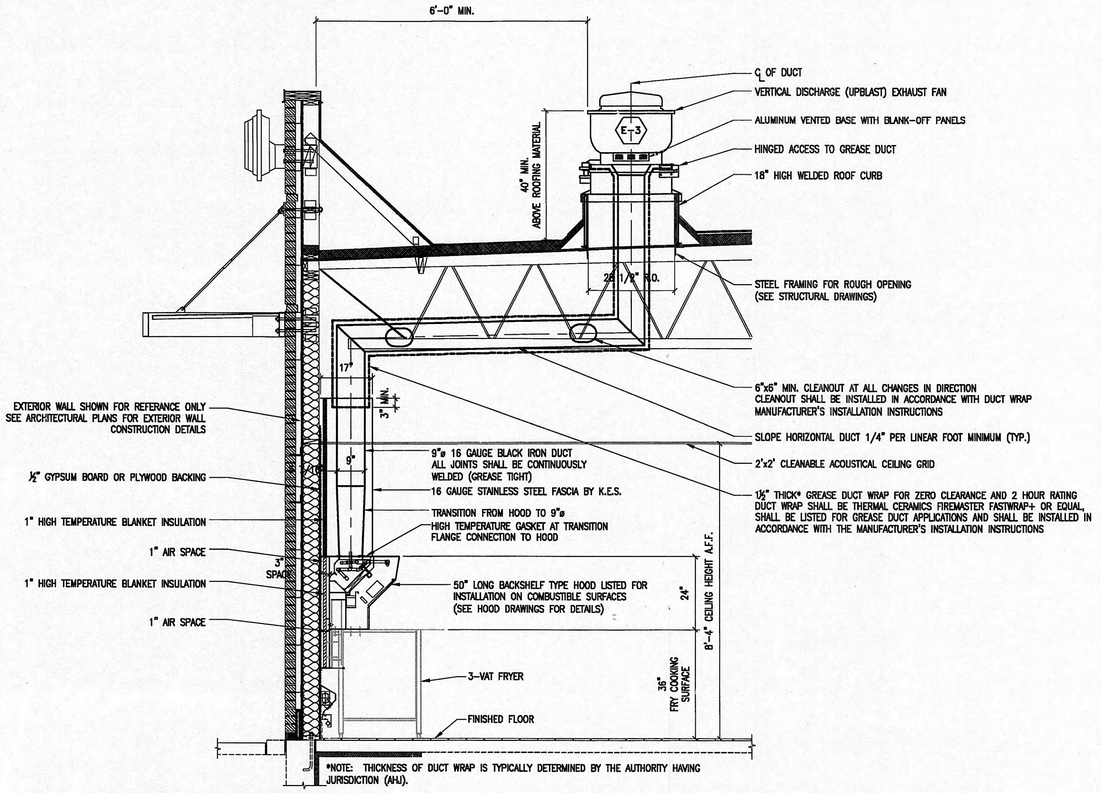


REFRIGERANT PIPING SIZES:
ICE MACHINE – ½" LIQUID, ¾" SUCTION

CONDUIT SIZES:
(1) ¾" POWER WIRING CONDUIT
(1) ¾" CONTROL WIRING CONDUIT

DETAIL

REMOTE CONDENSING UNITS FOR ICE MACHINES
MANITOWOC IB-1000C
TAGS: CU-1, CU-2 & CU-3
SCALE: ½"=1'-0"



DETAIL

KITCHEN EXHAUST HOOD, DUCT AND FAN
SCALE: NOT TO SCALE

BY	DESCRIPTION	DATE	REV

PREPARED BY:
Jason B. Greenberg
Registered Engineer
2111 McCormick Drive
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: TP
STD ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/25/2009

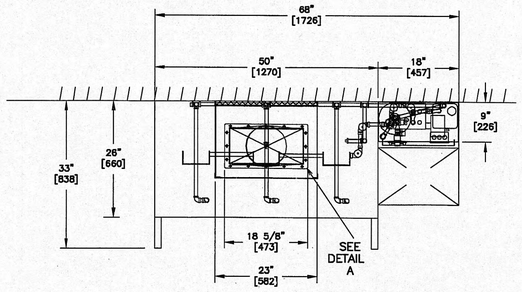
TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCHES
SITE ID: 041-0084
SITE ADDRESS: 7705 South Rome Street, Harrimon, TN 37748

SHEET NO.: 041-0084-00-0
M3.1
DETAILS & SCHEDULES

K:\DIV\EAST\ – RAL\032-0153-00-0 MOORESVILLE\45114MS_M3-0_M3-1.DWG 10-01-2008 11:51

NOTES:

1. 16 GA. S/S MATERIAL USED FOR HOOD EXTERIOR.
2. 16 GA ALUMINIZED STEEL USED FOR HOOD BACK.
3. FILTER BAFFLE;
   UL FILE R14372, VOL.1, SEC.1
   UL CONTROL NUMBER 5L65
   MEA-446-92-M
4. EXHAUST HOOD;
   UL FILE MH12755, VOL.4
   UL CONTROL NUMBER 78L1.
5. UTILITY CHASE AND RACEWAY;
   UL FILE E163328, VOL.1, SEC.3
6. HOOD COMPLIES WITH NSF STANDARD 2.
7. ELECTRICAL CONNECTIONS BY LOCAL ELECTRICIANS. GAS PIPING BY LOCAL PLUMBER. ANSUL CONNECTIONS AND STARTUP BY CERTIFIED ANSUL REPRESENTATIVE.
8. HIGH TEMP GASKET FILE MH12755 VOL.2, SEC.1, ILL.9
9. HOOD IS UL LISTED FOR DIRECT REAR MOUNTING ON COMBUSTIBLE SURFACES.
10. UL LISTED R102 WET CHEMICAL SYSTEM INCLUDED WITH HOOD INSTALLATION.



McDONALD'S CORPORATION
OAK BROOK, ILLINOIS 60521

EQUIP. I.D. EXHAUST HOOD: UH SERIES

MANUF. I.D. | SERIAL NUMBER

MANUF. EQUIP. I.D. | MANUF. DATE

MINIMUM DESIGN EXHAUST AIR FLOW

FT3/MIN/FT (M3/MIN/M) OF HOOD LENGTH		
LENGTH OF HOOD	WITH DUCT OPENING	WITH ESP OPENING
26" (660.4mm)	128 (12)	128 (12)
34 1/2" (876.3mm)	143 (13.3)	137 (12.8)
35-106 3/4"(889-2710mm)	166 (15.5)	151 (14)
133-3/4" (3397 mm)	132 (12.3)	132 (12.3)

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

-20" (508mm) MAXIMUM CLEARANCE FROM COOK SURFACE TO FRONT LOWER EDGE OF HOOD
-16" (406.4mm) MINIMUM CLEARANCE FROM COOK SURFACE TO FRONT LOWER EDGE OF HOOD
-2 1/4" (57.1mm) MINIMUM HOOD OVERHANG FROM EDGE OF COOKING SURFACE
-16 1/4" (412.8mm) MAXIMUM HOOD SETBACK FROM EDGE OF COOKING SURFACE

-THESE HOODS ARE LISTED FOR DIRECT REAR MOUNTING ON A COMBUSTIBLE SURFACE
-THESE HOODS ARE LISTED TO OPERATE WITH A DUCT OR ESP CONNECTED ON TOP
-WHEN A GRILL IS OPERATED UNDER THIS HOOD, AN EXTENSION SIDE PANEL (REMOVABLE OR INTEGRAL) MUST BE MOUNTED AT WHICHEVER END(S) OF HOOD IS ADJACENT TO THE GRILLES)
ONLY THE REMOVABLE SIDE SKIRTS WILL BE INDIVIDUALLY MARKED AS FOLLOWS: UH SIDES/ONLY/ RH OR LH
-THESE HOODS MUST BE INSTALLED PER NFPA-96
-FILTERS SHALL ONLY BE REPLACED WITH UL CLASSIFIED STEAL GREASE FILTERS

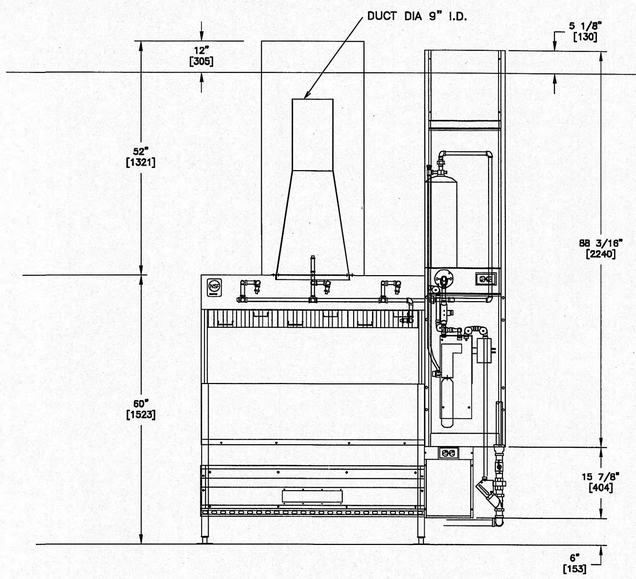
MANUFACTURER'S NAME

H&K DALLAS	HKD
H&K MEXICO	HKM
FRANKE CONTRACT GROUP (SPARKS)	FP#2
FRANKE CONTRACT GROUP (FAYETTEVILLE)	FP#3
MET TEC	MET

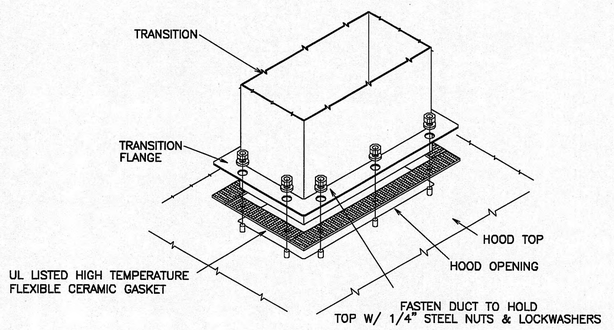
LISTED
MH12755
78L1
EXHAUST HOOD WITHOUT EXHAUST DAMPERS (CATEGORY YYCW)

3587693

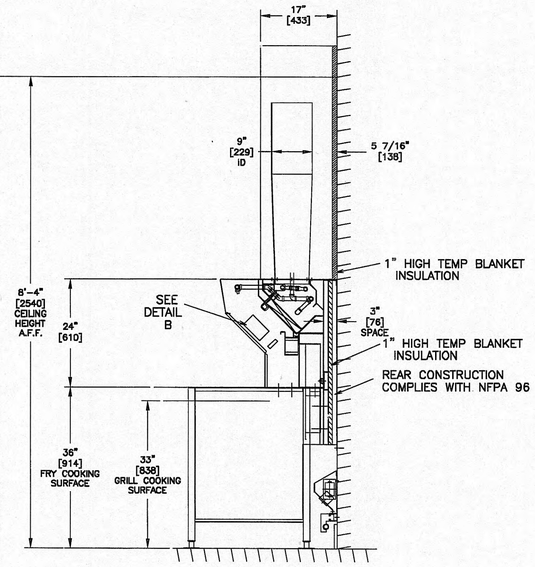
DETAIL B
UL LABEL



CEILING HEIGHT



DETAIL A



REV	DATE	DESCRIPTION	BY

PREPARED BY:
Jason B. Greenberg
Registered Engineer
3111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR:
McDonald's USA, LLC

DRAWN BY	CHECKED BY	DATE PLOTTED
TP	MR/TW	1/23/2009

STD ISSUE DATE JAN 2008

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES

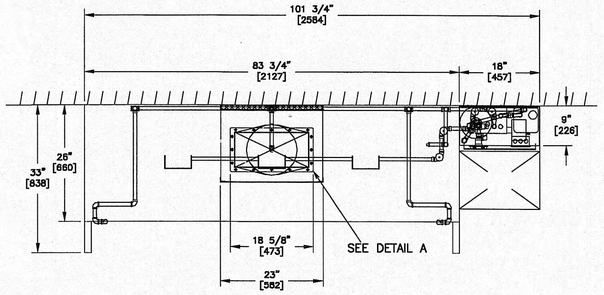
SITE ID 041-0084
SITE ADDRESS 1705 South Keene Street, Herriman, TN 37748

SHEET NO.
041-0084-00-0
M4.0
UH-50

K:\DA\EAST\ - RAL\041-0084-00-0 HARRIMAN\45114MS_M4-0.DWG 01-22-2009 15:26

NOTES:

1. 16 GA. S/S MATERIAL USED FOR HOOD EXTERIOR.
2. 16 GA ALUMINIZED STEEL USED FOR HOOD BACK.
3. FILTER BAFFLE;
   UL FILE R14372, VOL.1, SEC.1
   UL CONTROL NUMBER 5L65
   MEA-446-92-M
4. EXHAUST HOOD;
   UL FILE MH12755, VOL.4
   UL CONTROL NUMBER 78L1.
5. UTILITY CHASE AND RACEWAY;
   UL FILE E163328, VOL.1, SEC.3
6. HOOD COMPLIES WITH NSF STANDARD 2.
7. ELECTRICAL CONNECTIONS BY LOCAL ELECTRICIANS. GAS PIPING BY LOCAL PLUMBER. ANSUL CONNECTIONS AND STARTUP BY CERTIFIED ANSUL REPRESENTATIVE.
8. HIGH TEMP GASKET FILE MH12755 VOL.2, SEC.1, ILL.9
9. HOOD IS UL LISTED FOR DIRECT REAR MOUNTING ON COMBUSTIBLE SURFACES.
10. UL LISTED R102 WET CHEMICAL SYSTEM INCLUDED WITH HOOD INSTALLATION.



McDONALD'S CORPORATION
OAK BROOK, ILLINOIS 60521

EQUIP. I.D. EXHAUST HOOD: UH SERIES

MANUF. I.D. | SERIAL NUMBER

MANUF. EQUIP. I.D. | MANUF. DATE

MINIMUM DESIGN EXHAUST AIR FLOW

FT3/MIN/FT (M3/MIN/M) OF HOOD LENGTH		
LENGTH OF HOOD	WITH DUCT OPENING	WITH ESP OPENING
26" (660.4mm)	128 (12)	128 (12)
54 1/2" (876.3mm)	143 (13.3)	137 (12.8)
55-106 3/4"(869-2710mm)	166 (15.5)	151 (14)
133-3/4" (3397 mm)	132 (12.3)	132 (12.3)

FOR USE OVER COMMERCIAL GAS OR ELECTRIC COOKING EQUIPMENT UP TO 400°F (204°C) (EXCEPT UPPER PLATEN OF 2 SIDED COOKER MAY BE UP TO 422°F (216°C))

-20" (508mm) MAXIMUM CLEARANCE FROM COOK SURFACE TO FRONT LOWER EDGE OF HOOD
-16" (406.4mm) MINIMUM CLEARANCE FROM COOK SURFACE TO FRONT LOWER EDGE OF HOOD
-2 1/4" (57.1mm) MINIMUM HOOD OVERHANG FROM EDGE OF COOKING SURFACE
-16 1/4" (412.8mm) MAXIMUM HOOD SETBACK FROM EDGE OF COOKING SURFACE

-THESE HOODS ARE LISTED FOR DIRECT REAR MOUNTING ON A COMBUSTIBLE SURFACE
-THESE HOODS ARE LISTED TO OPERATE WITH A DUCT OR ESP CONNECTED ON TOP
-WHEN A GRILL IS OPERATED UNDER THE HOOD, AN EXTENSION SIDE PANEL (REMOVABLE OR INTEGRAL) MUST BE MOUNTED AT WHICHEVER END(S) OF HOOD IS ADJACENT TO THE GRILL(S)
***ONLY THE REMOVABLE SIDE SKIRTS WILL BE INDIVIDUALLY MARKED AS FOLLOWS: LH SIDE/LEFT SIDE OR RH SIDE/RIGHT SIDE
-FILTERS SHALL BE INSTALLED PER NFPA-96
-FILTERS SHALL ONLY BE REPLACED WITH UL CLASSIFIED STEAL GREASE FILTERS

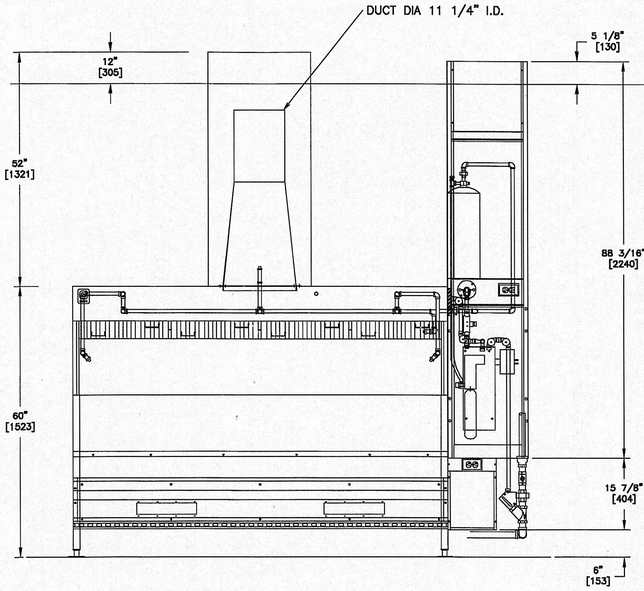
MANUFACTURER'S NAME

H&K DALLAS	HKD
H&K MEXICO	HKM
FRANKE CONTRACT GROUP (SPARKS)	FP#2
FRANKE CONTRACT GROUP (FAYETTEVILLE)	FP#3
MET TEC	MET

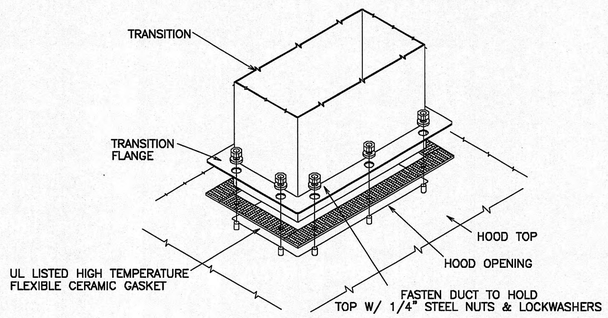
LISTED
MH12755
78L1
EXHAUST HOOD WITHOUT EXHAUST DAMPERS (CATEGORY YYCW)

35876S3

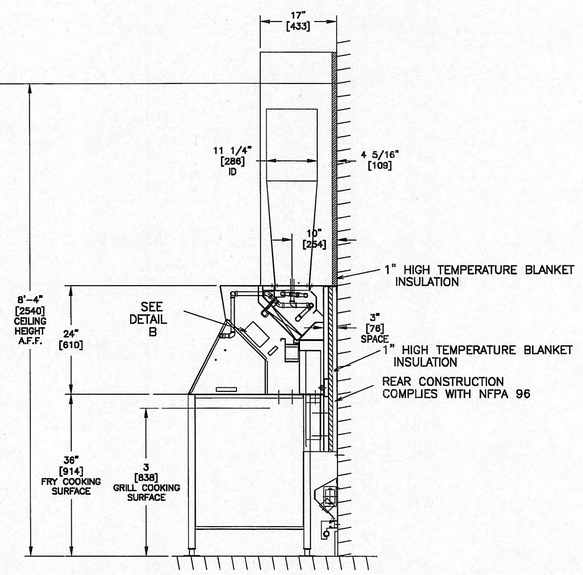
DETAIL B
UL LABEL



CEILING HEIGHT



DETAIL A



REV	DATE	DESCRIPTION	BY

PREPARED BY:
Jason B. Greenberg
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	CHK'D BY
TP	
STD ISSUE DATE	
JAN 2008	
REVIEWED BY	
MR/TW	
DATE ISSUED	
1/23/2009	

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES

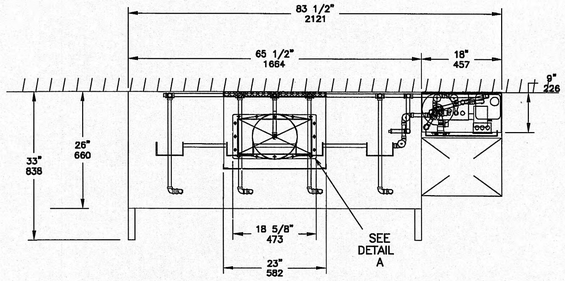
SITE ID 041-0084
SITE ADDRESS 1705 South Roane Street,
Harriman, TN 37748

SHEET NO.
041-0084-00-0
M4.1
UH-83

K:\DIV\EAST\ - RAL\041-0084-00-0 HARRIMAN\45114MS_M4-1.DWG 01-22-2009 15:26

NOTES:

1. 16 GA. S/S MATERIAL USED FOR HOOD EXTERIOR.
2. 16 GA ALUMINIZED STEEL USED FOR HOOD BACK.
3. FILTER BAFFLE;
   UL FILE R14372, VOL.1, SEC.1
   UL CONTROL NUMBER 5L65
   MEA-446-92-M
4. EXHAUST HOOD;
   UL FILE MH12755, VOL.4
   UL CONTROL NUMBER 78L1.
5. UTILITY CHASE AND RACEWAY;
   UL FILE E163328, VOL.1, SEC.3
6. HOOD COMPLIES WITH NSF STANDARD 2.
7. ELECTRICAL CONNECTIONS BY LOCAL ELECTRICIANS. GAS PIPING BY LOCAL PLUMBER. ANSUL CONNECTIONS AND STARTUP BY CERTIFIED ANSUL REPRESENTATIVE.
8. HIGH TEMP GASKET FILE MH12755 VOL.2, SEC.1, ILL.9
9. HOOD IS UL LISTED FOR DIRECT REAR MOUNTING ON COMBUSTIBLE SURFACES.
10. UL LISTED R102 WET CHEMICAL SYSTEM INCLUDED WITH HOOD INSTALLATION.



McDONALD'S CORPORATION
OAK BROOK, ILLINOIS 60521

EQUIP. I.D. EXHAUST HOOD: UH SERIES
MANUF. I.D. SERIAL NUMBER
MANUF. EQUIP. I.D. MANUF. DATE

MINIMUM DESIGN EXHAUST AIR FLOW

FT3/MIN/FT (M3/MIN/M) OF HOOD LENGTH		
LENGTH OF HOOD	WITH DUCT OPENING	WITH ESP OPENING
26" (660.4mm)	128 (12)	128 (12)
34 1/2" (876.3mm)	143 (13.3)	137 (12.8)
35-106 3/4"(889-2710mm)	166 (15.5)	151 (14)
133-3/4" (3397 mm)	132 (12.3)	132 (12.3)

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

-20" (508mm) MAXIMUM CLEARANCE FROM COOK SURFACE TO FRONT LOWER EDGE OF HOOD
-18" (406.4mm) MINIMUM CLEARANCE FROM COOK SURFACE TO FRONT LOWER EDGE OF HOOD
-2 1/4" (57.1mm) MINIMUM HOOD OVERHANG FROM EDGE OF COOKING SURFACE
-16 1/4" (412.8mm) MAXIMUM HOOD SETBACK FROM EDGE OF COOKING SURFACE

-THESE HOODS ARE LISTED FOR DIRECT REAR MOUNTING ON A COMBUSTIBLE SURFACE
-THESE HOODS ARE LISTED TO OPERATE WITH A DUCT OR ESP CONNECTED ON TOP
-WHEN A GRILL IS OPERATED UNDER THIS HOOD, AN EXTENSION SIDE PANEL (SPARKS & FP #3 MODELS) MUST BE MOUNTED AT WHICH-EVER END(S) OF HOOD IS ADJACENT TO THE GRILLING SURFACE.
-WHERE THE REAR VERTICAL SURFACE IS NOT INDIVIDUALLY MARKED AS FOLLOWS: "FOR USE WITH COMBUSTIBLE SURFACES"
-THESE HOODS MUST BE INSTALLED PER NFPA-96
-FILTERS SHALL ONLY BE REPLACED WITH UL CLASSIFIED STEAL GREASE FILTERS

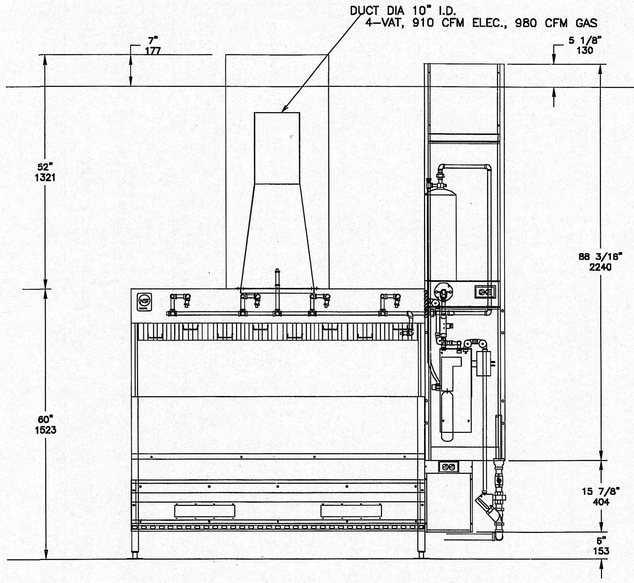
MANUFACTURER'S NAME

H&K DALLAS	HKD
H&K MEXICO	HKM
FRANKE CONTRACT GROUP (SPARKS)	FP#2
FRANKE CONTRACT GROUP (FAYETTEVILLE)	FP#3
MET TEC	MET

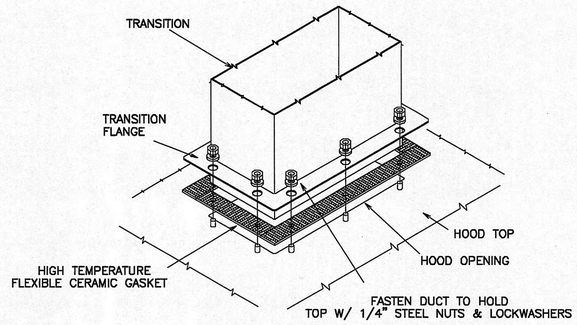
LISTED
MH12755
78L1
EXHAUST HOOD WITHOUT
EXHAUST DAMPERS (CATEGORY YYCW)

3587693

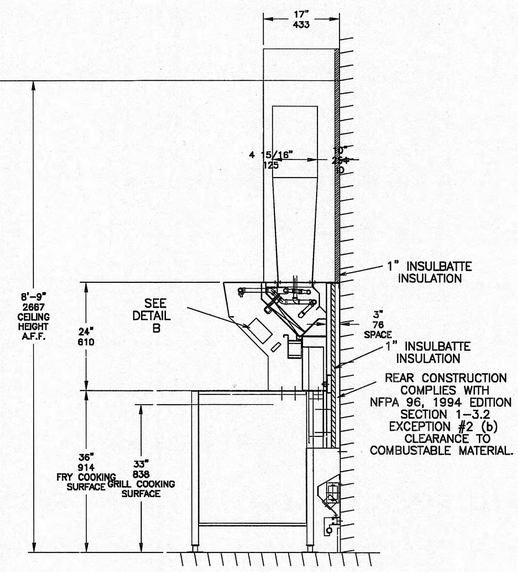
DETAIL B
UL LABEL



CEILING HEIGHT



DETAIL A



REV	DATE	DESCRIPTION	BY
1	1	2/07	

PREPARED BY:
Jason B. Greenberg
Registered Engineer
2111 McDonalds Drive
Oak Brook, IL 60523

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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	REVIEWED BY	DATE ISSUED
TP	MR/TW	1/23/2009
STD ISSUE DATE JAN 2008		

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES

SITE ID 041-0084
SITE ADDRESS 1708 South Rome Street,
Harriman, TN 37748

SHEET NO.
041-0084-00-0
M4.2
UH-65

K:\DIV\EAST\~ RAL\041-0084-00-0 HARRIMAN\45114MS_M4-2.DWG 01-22-2009 15:26

COORDINATION SCHEDULE

ABBREVIATIONS:
GC = GENERAL CONTRACTOR
EC = ELECTRICAL CONTRACTOR
FPC = FIRE PROTECTION CONTRACTOR
BSI = BEVERAGE SYSTEM INSTALLER
MC = MECHANICAL CONTRACTOR
TAB = TESTING, ADJUSTING & BALANCING CONTRACTOR
FAC = FIRE ALARM CONTRACTOR
KEI = KITCHEN EQUIPMENT INSTALLER
PC = PLUMBING CONTRACTOR
KES = KITCHEN EQUIPMENT SUPPLIER
ACM = AREA CONSTRUCTION MANAGER

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

NOTES:
1. ALL WORK SHALL BE COORDINATED BETWEEN THE McDONALD'S AREA CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ALL SUBCONTRACTORS, KITCHEN EQUIPMENT SUPPLIER AND DECOR PACKAGE SUPPLIER AND INSTALLER.

2. ONE (1) COPY OF THE DECOR PACKAGE DRAWINGS SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR AND EACH OF THE SUBCONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS TO INSURE THAT THEY HAVE RECEIVED THE DECOR PACKAGE DRAWINGS.

3. FOR ANY WORK NOT CLARIFIED IN THIS SCHEDULE OR IN THE NOTES AND SPECIFICATIONS, PLEASE CONSULT THE McDONALD'S AREA CONSTRUCTION MANAGER FOR SCOPE OF WORK.

4. ALL ROOFTOP UNIT EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND THE KITCHEN EQUIPMENT SUPPLIER SHALL BE ON SITE AT THE SAME TIME FOR A SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED BETWEEN THE AREA CONSTRUCTION MANAGER, MECHANICAL CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER.

5. ALL ROOFTOP UNITS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY EQUIPMENT. THE INSTALLATION OF STANDARD EFFICIENCY ROOFTOP UNITS IS PROHIBITED.

6. ALL KITCHEN EQUIPMENT REQUIRING EXHAUST SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE REPORTED TO THE AREA CONSTRUCTION MANAGER AND THE ENGINEER-OF-RECORD.

7. WHERE GYPSUM BOARD CEILINGS ARE INSTALLED, THE MECHANICAL CONTRACTOR SHALL SUPPLY DRYWALL MOUNTING FRAMES FOR LAY-IN TYPE DIFFUSERS.

8. ALL WORK SHOWN ON P2 DRAWING(S) SHALL BE COMPLETED BY THE BEVERAGE SYSTEM INSTALLER (OR K.E.S.) UNLESS OTHERWISE NOTED IN THE PLUMBING DRAWINGS.

9. ALL WORK ON P1 DRAWING(S) SHALL BE BY THE PLUMBING CONTRACTOR.

10. THE BEVERAGE SYSTEM INSTALLER FURNISHES, RUNS AND CONNECTS ALL FLEXIBLE WATER AND SYRUP LINES FOR ALL AFFECTED EQUIPMENT INCLUDING THE FOLLOWING:
A. HOT CHOCOLATE
B. COFFEE BREWER
C. ICE MACHINE
D. O.J.
E. SODA TOWERS

11. ALL WATER HEATERS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY SEALED-COMBUSTION WATER HEATERS. THE INSTALLATION OF STANDARD EFFICIENCY GRAVITY-VENTED WATER HEATERS IS PROHIBITED.

12. THE AREA CONSTRUCTION MANAGER, PLUMBING CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE WHICH 3-COMPARTMENT SINK IS BEING INSTALLED IN THE RESTAURANT. NOTE: THE INSTALLATION OF A POWERSOAK SINK REQUIRES A LARGER WATER HEATER THAN THE STANDARD 3-COMPARTMENT SINK.

13. ALL GAS PIPING FOR COOKING EQUIPMENT SHALL TERMINATE IN THE CEILING PRIOR TO THE INSTALLATION OF THE PIPING CHASE. UPON INSTALLATION OF THE CHASE, THE GAS PIPING SHALL THEN BE CONTINUED IN THE CHASE FOR FINAL CONNECTION TO THE APPLIANCE.

14. ALL GAS PIPING FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE PLUMBING CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.

15. ALL FIRE PROTECTION DRAWINGS CONTAINED WITHIN THIS SET ARE STRICTLY FOR REFERENCE ONLY. FIRE SPRINKLER DRAWINGS SHALL BE DESIGNED AND PERMITTED BY A FIRE PROTECTION CONTRACTOR.

16. ALL R-102 WET CHEMICAL FIRE SUPPRESSION SYSTEMS FOR TYPE I HOODS SHALL BE DESIGNED AND INSTALLED BY A LOCAL ANSUL AGENT. THE USE OF DRY CHEMICAL SYSTEMS IS PROHIBITED. THE LOCAL ANSUL AGENT CONTRACT IS HANDLED THROUGH THE KITCHEN EQUIPMENT SUPPLIER.

17. ALL ROOFTOP UNITS AND EXHAUST FANS ARE SUPPLIED WITH A FACTORY-INSTALLED DISCONNECT SWITCH.

18. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR REMOTE CONDENSING UNITS.

19. ALL ELECTRICAL CONDUITS FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF.

20. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

21. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

22. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

23. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

24. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

25. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.

26. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.

27. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION.

28. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.

PLUMBING NOTES

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

2. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.

3. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION. ALL ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH THE MANUFACTURER'S SUBMITTAL INFORMATION.

4. ALL DIMENSIONAL INFORMATION IS AS FOLLOWS (UNLESS NOTED OTHERWISE):
A. UNDERGROUND PIPE IS TO FOUNDATION
B. OVERHEAD PIPE IS TO FINISHED WALL
C. ELEVATIONS ARE TO FINISHED FLOOR

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

6. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.

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

8. WHERE POOR SOIL CONDITIONS EXIST OR WHERE SUBSTANTIAL SETTLEMENT OF EITHER THE PIPING, THE BUILDING OR ADJACENT WALKS, PLANTERS, ETC., MAY OCCUR, THE CONTRACTOR SHALL PROVIDE ADEQUATE UNDERSLAB STAINLESS STEEL PIPE HANGERS OR APPROVED OTHER SUPPORT.

9. ALL PIPE SLEEVES SHALL BE PROPERLY SEALED AND INSULATED TO PREVENT HEAT LOSS AND SEEPAGE.

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

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

SANITARY AND VENT SYSTEMS:
1. THE BUILDING SANITARY PIPE SHALL BE LOCATED A MINIMUM OF 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.

2. ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR CAST-IRON WHERE REQUIRED BY CODE.

3. ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH AS FOLLOWS:

PIPE SIZE	MIN. SLOPE
2½" OR LESS	¼" PER FT.
3" TO 6"	⅛" PER FT.
8" OR LARGER	1/16" PER FT.

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

5. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.

6. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.

7. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.

8. CLEANOUTS ON 6-IN. AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 IN. CLEANOUTS ON 8-IN. AND LARGER PIPE SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 36 IN.

9. ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS:

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

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

TRAP SIZE	SLOPE	DISTANCE
1¼"	¼" PER FT.	5 FT.
1½"	¼" PER FT.	6 FT.
2"	¼" PER FT.	8 FT.
3"	¼" PER FT.	12 FT.
4"	¼" PER FT.	16 FT.

11. ALL PLUMBING VENTS THROUGH THE ROOF SHALL TERMINATE A MINIMUM OF 12 INCHES ABOVE THE ROOF AND SHALL BE LOCATED A MINIMUM OF 8 FT. FROM ANY PARAPET WALL. WHERE A VENT TERMINATES WITHIN 8 FT. OF A PARAPET WALL, THE VENT SHALL TERMINATE A MINIMUM OF 6 INCHES ABOVE THE PARAPET.

12. ALL PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A PLUMBING VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.

13. ALL SIDE WALL VENT TERMINATIONS SHALL BE PROTECTED TO PREVENT BIRDS OR RODENTS FROM ENTERING OR BLOCKING THE VENT OPENING.

14. ALL FLOOR DRAINS THAT DO NOT SERVE EQUIPMENT SHALL BE PROTECTED AGAINST DRYING OUT EITHER THROUGH THE INSTALLATION OF A TRAP PRIMER OR PROSET TRAP GUARD.

GREASE INTERCEPTORS:
1. SEE SITE PLAN FOR THE SIZE AND LOCATION OF THE GREASE INTERCEPTOR.

2. THE GREASE INTERCEPTOR SHALL BE INSTALLED IN A LOCATION THAT IS ACCESSIBLE FOR PUMPING.

3. THE GREASE INTERCEPTOR SHALL BE CONSTRUCTED OF FIBERGLASS OR PRECAST CONCRETE. GREASE INTERCEPTOR CONSTRUCTION SHALL CONFORM TO ALL LOCAL CODES.

4. PRECAST CONCRETE INCERCEPTORS 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 DOUBLE-LAYER EPOXY-COAT ON THE INTERIOR.

5. THE GREASE INTERCEPTOR SHALL BE VENTED IN ACCORDANCE WITH THE LOCAL CODE.

6. ACCESS TO THE GREASE INTERCEPTOR SHALL BE PROVIDED WITH TWO (2) 24-IN. MANHOLES. ALL SURFACE WATER MUST DRAIN AWAY FROM MANHOLES.

7. PIPING INLET AND OUTLET SIDES SHALL BE CLEARLY LABELED ON THE TOP OF THE GREASE INTERCEPTOR TO INSURE PROPER INSTALLATION.

DOMESTIC SUPPLY SYSTEMS:
1. THE INCOMING WATER SERVICE PIPE SHALL BE LOCATED A MINIMUM OF 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.

2. ALL UNDERGROUND SITE PLUMBING SHALL CONFORM TO NSF 61, SHALL BE TYPE K COPPER TUBING OR COPPER PIPE. CPVC PIPE CAN BE USED WHERE PERMITTED BY CODE. IF THE SITE CONTRACTOR USES CPVC, FOAM INSULATION SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION TO ACCOUNT FOR EXPANSION AND CONTRACTION.

DOMESTIC SUPPLY SYSTEMS (CONT.):
3. INCOMING WATER SERVICE PRESSURE SHOULD 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.

4. INCOMING WATER SERVICE SHALL BE 2" MINIMUM. IF THE RESTAURANT HAS A FIRE SPRINKLER SYSTEM, THE INCOMING WATER SERVICE SHALL BE SIZED BASED ON THE FIRE SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS.

5. PROVIDE A MINIMUM 1" ANNULAR CLEARANCE AROUND ALL PIPE SLAB PENETRATIONS.

6. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INCOMING SERVICE WHERE REQUIRED BY CODE.

7. A PROPERLY SIZED AND APPROVED EXPANSION TANK SHALL BE INSTALLED ON THE COLD WATER LINE INLET TO THE WATER HEATER WHEN A BUILDING WATER SERVICE RPZ IS INSTALLED.

8. 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 FITTING FROM CPVC TO COPPER.

9. ALL SUSPENDED PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
COPPER PIPE	12 FT.	10 FT.
COPPER TUBING ≤1¼"	6 FT.	10 FT.
COPPER TUBING >1½"	10 FT.	10 FT.
STEEL PIPE	12 FT.	15 FT.

10. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INLET TO THE WATER FILTRATION SYSTEM. ALL PIPING DOWNSTREAM OF THE STAINLESS STEEL RPZ SHALL BE APPROVED STAINLESS STEEL OR CROSS-LINKED POLYETHYLENE.

11. 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.

12. ALL WATER SUPPLY LINES SHALL BE PROVIDED WITH A QUARTER-TURN SHUT-OFF VALVE BEFORE FINAL CONNECTION TO EQUIPMENT.

13. QUARTER-TURN SHUT-OFF VALVES SHALL BE INSTALLED UPSTREAM OF ANY INLINE BACKFLOW PREVENTION DEVICE.

14. ALL VALVES AND BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WITH FITTINGS THAT FACILITATE REMOVAL IN CASE OF FAILURE.

15. ALL OVERHEAD WATER LINES SHALL BE INSULATED WITH 1" THICK EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.5.

16. PRIOR TO BUILDING TURNOVER, THE DOMESTIC WATER SUPPLY SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND DISINFECTED. DISINFECTION SHALL BE DONE IN ACCORDANCE WITH THE LOCAL HEALTH CODE, PLUMBING CODE OR IN ACCORDANCE WITH AWWA C651 OR AWWA C652.

STORM DRAINAGE SYSTEMS:
1. ALL ROOF DRAINS SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODES AND SHALL CONFORM TO ASME A112.21.2M OR A112.3.1.

2. ALL STORM DRAINAGE PIPING SHALL BE ABS, PVC TYPE DWV OR CAST-IRON WHERE REQUIRED BY CODE.

3. ALL SUSPENDED STORM DRAINAGE PIPE SUPPORT REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.

4. ALL HORIZONTAL STORM DRAINAGE PIPE PITCH REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.

5. ALL HORIZONTAL STORM DRAINAGE PIPE SHALL BE INSULATED WITH 1" THICK EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.5 TO PROTECT AGAINST CONDENSATION.

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

7. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.

8. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.

9. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.

10. ROOF DRAINS AND OVERFLOW ROOF DRAINS SHALL BE PIPED INDEPENDENTLY. OVERFLOW ROOF DRAINS SHALL NOT BE CONNECTED TO THE PRIMARY ROOF DRAINAGE SYSTEM.

NATURAL GAS SYSTEMS (IF APPLICABLE):
1. ALL GAS PIPING, WATER HEATER VENTS, INTAKES AND FLUES SHALL CONFORM TO THE CURRENT VERSION OF NFPA 54, NATIONAL FUEL GAS CODE, AND ANY LOCAL CODE REQUIREMENTS.

2. THE NATURAL GAS PIPING SYSTEM DESIGN IS BASED ON THE FOLLOWING:
A. MINIMUM SUPPLY PRESSURE AT THE METER OF 7 IN. W.C. (¼ PSIG)
B. 0.5" W.C. MAX. PRESSURE DROP FROM METER TO ANY APPLIANCE
C. 1,000 BTU PER CU. FT. OF NATURAL GAS

3. ALL NATURAL GAS PIPE SHALL BE SCHEDULE 40 CARBON STEEL PIPE WITH MALLEABLE IRON FITTINGS AND SHALL BE COMPLY TO ONE OF THE FOLLOWING STANDARDS: ASME B36.10, 10M; ASTM A 53; OR ASTM A 106.

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

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

5. GAS PIPING SHALL NOT PENETRATE ANY FIRE-RATED CHASE OR SHAFT, DUCTWORK OR PLENUM.

6. ALL INTAKE AND VENT PIPING FOR SEALED-COMBUSTION WATER HEATERS SHALL BE PVC OR ABS, SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR.

7. ALL WATER HEATER VENTS SHALL BE LOCATED A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A WATER HEATER VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE FLUE OR VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.

8. UPON COMPLETION OF INSTALLATION, THE GAS PIPING SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND SHALL BE PRESSURE TESTED. PRESSURE TESTING SHALL BE PERFORMED WITH THE EQUIPMENT SHUT-OFF VALVES IN THE CLOSED POSITION TO PROTECT EQUIPMENT FROM DAMAGE DUE TO EXCESSIVE PRESSURE.

9. AFTER THE PRESSURE TEST HAS BEEN COMPLETED AND ANY LEAKS REMEDIED, THE INSTALLING CONTRACTOR SHALL MEASURE AND VERIFY THE FOLLOWING GAS PRESSURES WHILE EQUIPMENT IS IN OPERATION:
A. GRILL - 5" W.C. NATURAL, 10" W.C. L.P.
B. FRYER - 3½" W.C. NATURAL, 8¾" W.C. L.P.
C. WATER HEATER - 5" W.C. NATURAL, 11" W.C. L.P.
D. HVAC UNIT - 5" W.C. NATURAL, 11" W.C. L.P.
IF THESE MINIMUM PRESSURES ARE NOT MET, THIS SHALL BE IMMEDIATELY REPORTED TO THE McDONALD'S AREA CONSTRUCTION MANAGER.

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Jason B. Greenberg
Registered Engineer
2111 McDonald's Dr.
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: TP
STD ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

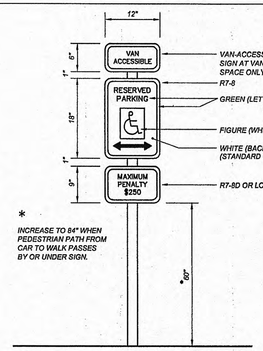
TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCHES
SITE ID: D41-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO.: 041-0084-00-0
P0.0
GENERAL NOTES

GENERAL SITE NOTES:

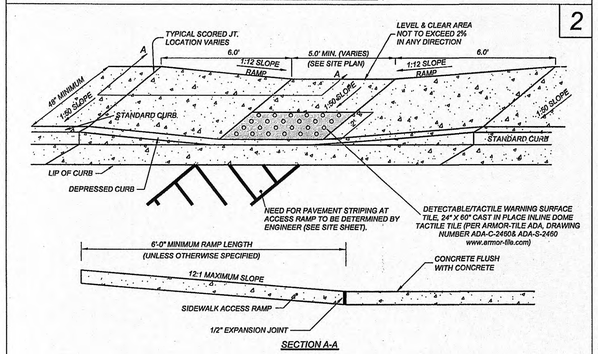
1. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. THE CONTRACTOR(S) SHALL CONTACT TENNESSEE ONE AT 1-800-922-0983 FOR ASSISTANCE IN LOCATING EXISTING UTILITIES. CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.

1



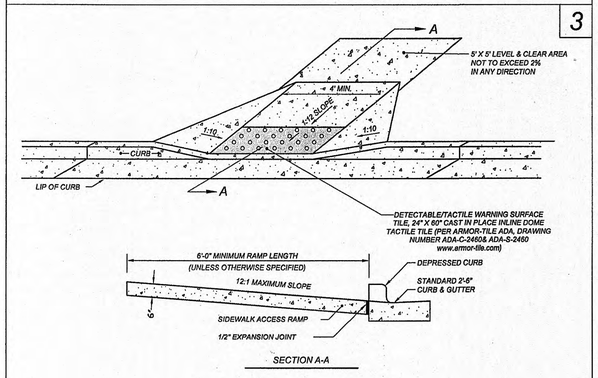
HANDICAP SIGN DETAIL

2

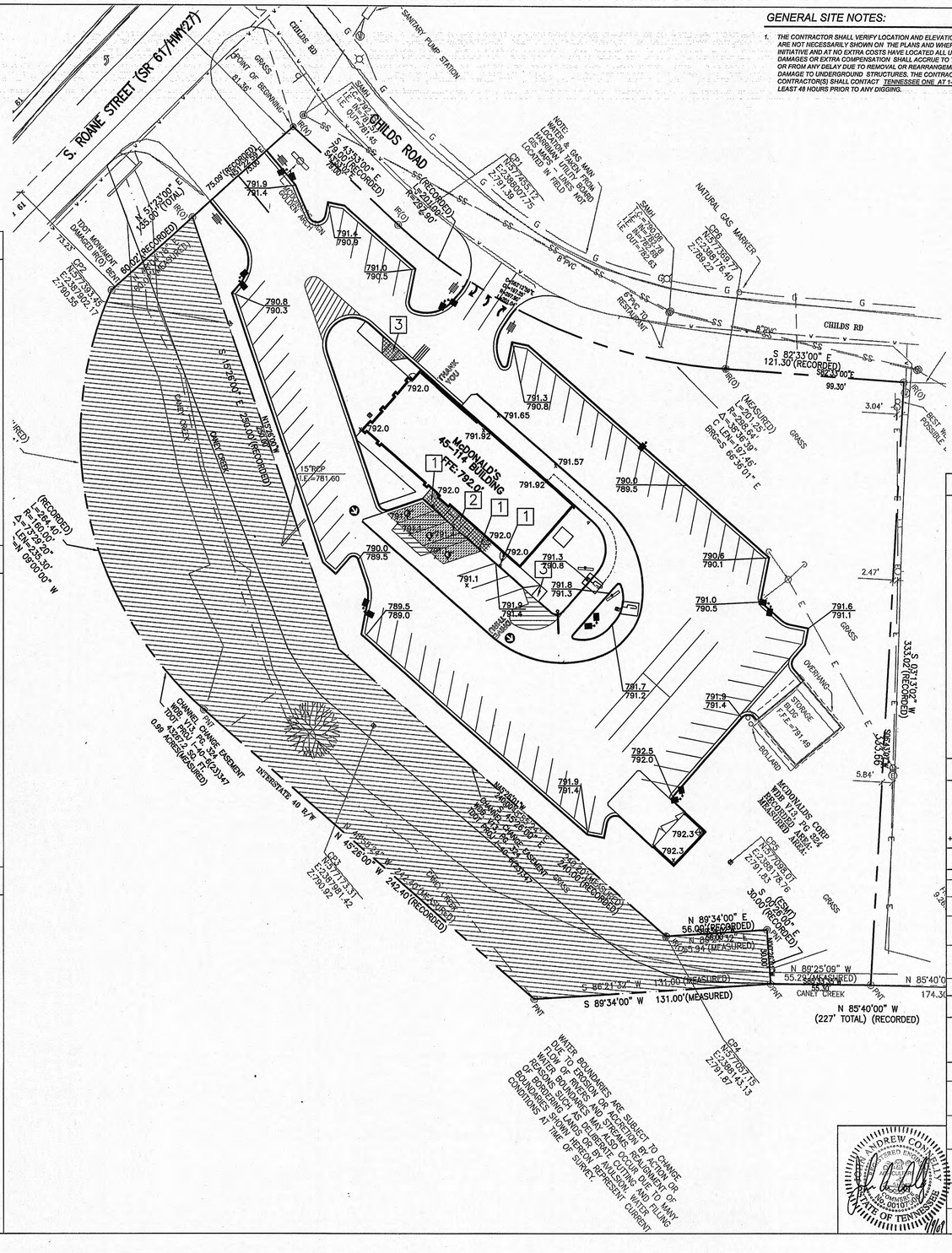


FLUSH HANDICAP RAMP DETAIL

3



STANDARD HANDICAP RAMP DETAIL


S. ROANE STREET (SR 61/HWY27)
CHILDS RD
SANITARY PUMP STATION
POINT OF BEGINNING
81.30'
GRASS
SMH RIM=792.63 INV=781.45 OUT=781.45
N 43°31'00" E 50.00'(RECORDED) 50.00'(MEASURED)
N 51°43'00" E 185.50' (TOTAL)
75.09'(RECORDED) 75.09'(MEASURED)
IRON PIN FOUND
IRON PIN SET
IRON PIN FOUND
CONCRETE GUARD ARCH
791.9
791.4
791.4
790.8
791.0
790.5
790.8
790.3
792.0
791.65
791.92
791.57
791.3
790.8
791.3
791.8
791.3
791.1
791.9
791.4
790.0
789.5
789.5
789.0
791.7
791.2
792.5
792.0
791.9
791.4
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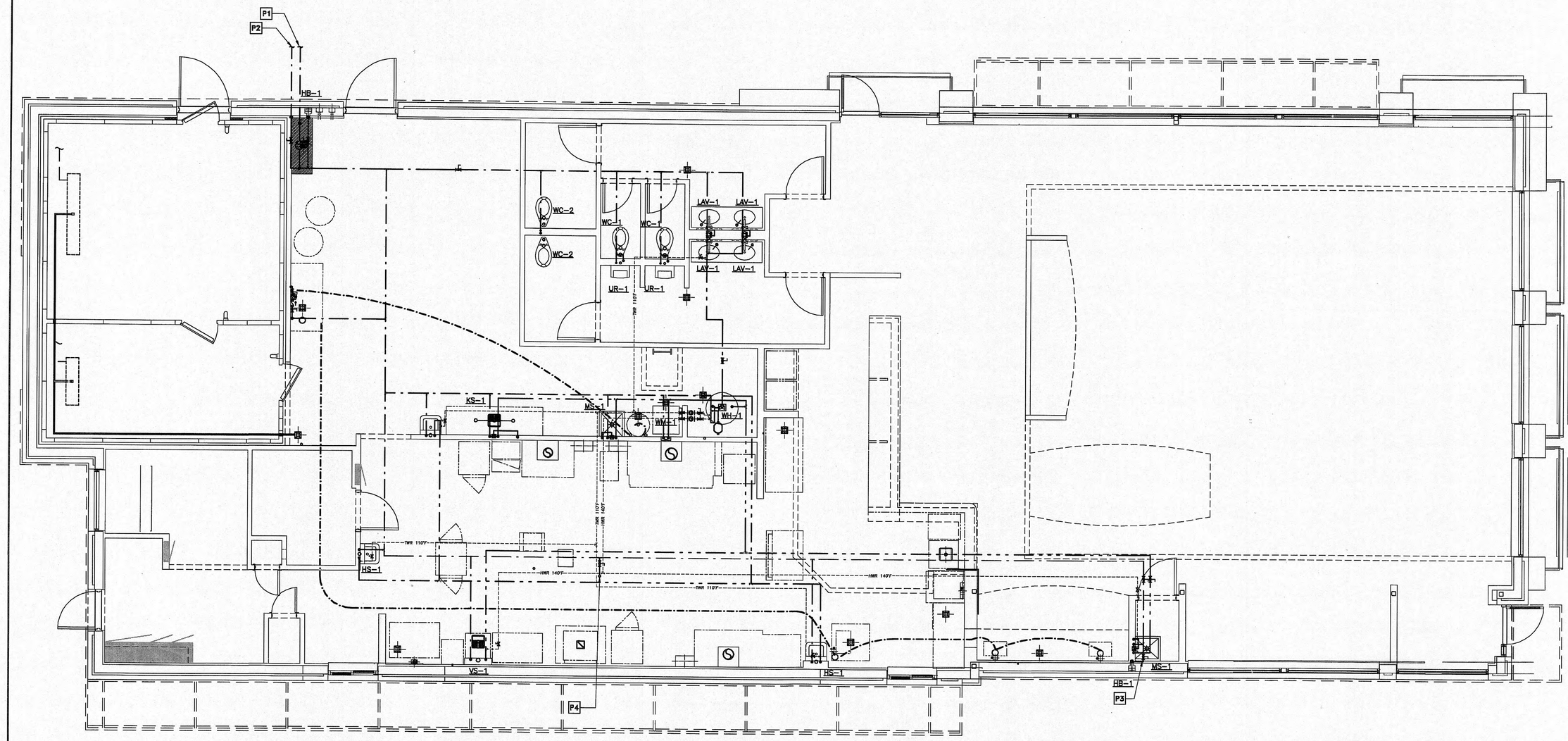


WATER PIPING PLAN

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

DRAWING NOTES

1. SEE DRAWING P3.2 FOR PLUMBING LEGEND.
2. SEE DRAWING P0.0 FOR GENERAL PLUMBING NOTES.
3. SEE DRAWING P3.2 FOR PLUMBING FIXTURE SCHEDULES AND DETAILS.
4. SEE DRAWING P2.0 FOR PLUMBING ROUGH-INS.

KEYED NOTES

P1 INCOMING UNDERGROUND WATER SERVICE (SEE SITE PLAN FOR CONTINUATION)

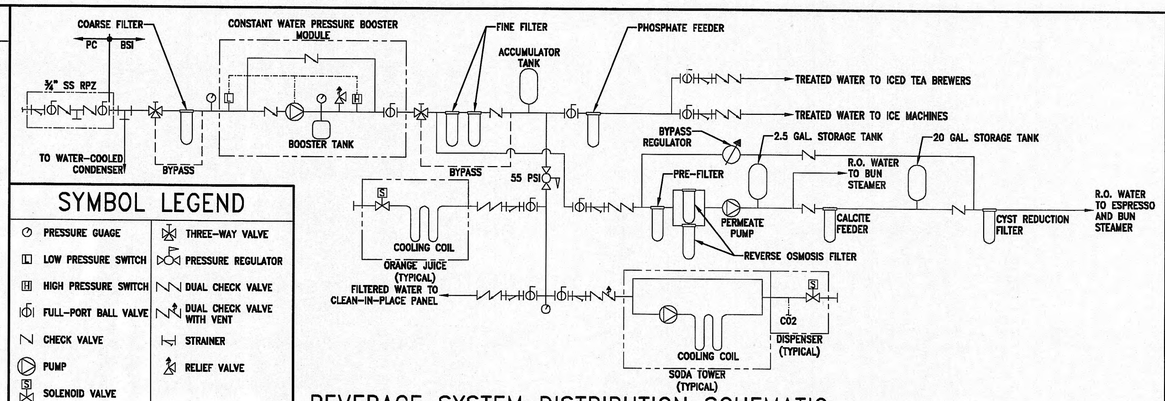
P2 COLD WATER UNDERGROUND TO YARD HYDRANT (HB-3) IN TRASH CORRAL (SEE SITE PLAN FOR CONTINUATION)

P3 PROVIDE ACCESS FOR ALL VALVES (TYP.)

P4 CW UP TO YARD HYDRANT ON ROOF

SYMBOL LEGEND

PRESSURE GUAGE	THREE-WAY VALVE
LOW PRESSURE SWITCH	PRESSURE REGULATOR
HIGH PRESSURE SWITCH	DUAL CHECK VALVE
FULL-PORT BALL VALVE	DUAL CHECK VALVE WITH VENT
CHECK VALVE	STRAINER
PUMP	RELIEF VALVE
SOLENOID VALVE	



BEVERAGE SYSTEM DISTRIBUTION SCHEMATIC

NOT TO SCALE

REV	DATE	DESCRIPTION	BY

PREPARED BY:
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Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: TP
STD. ISSUE DATE: JAN. 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCHES
SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO.: 041-0084-00-0
P1.0
WATER PIPING

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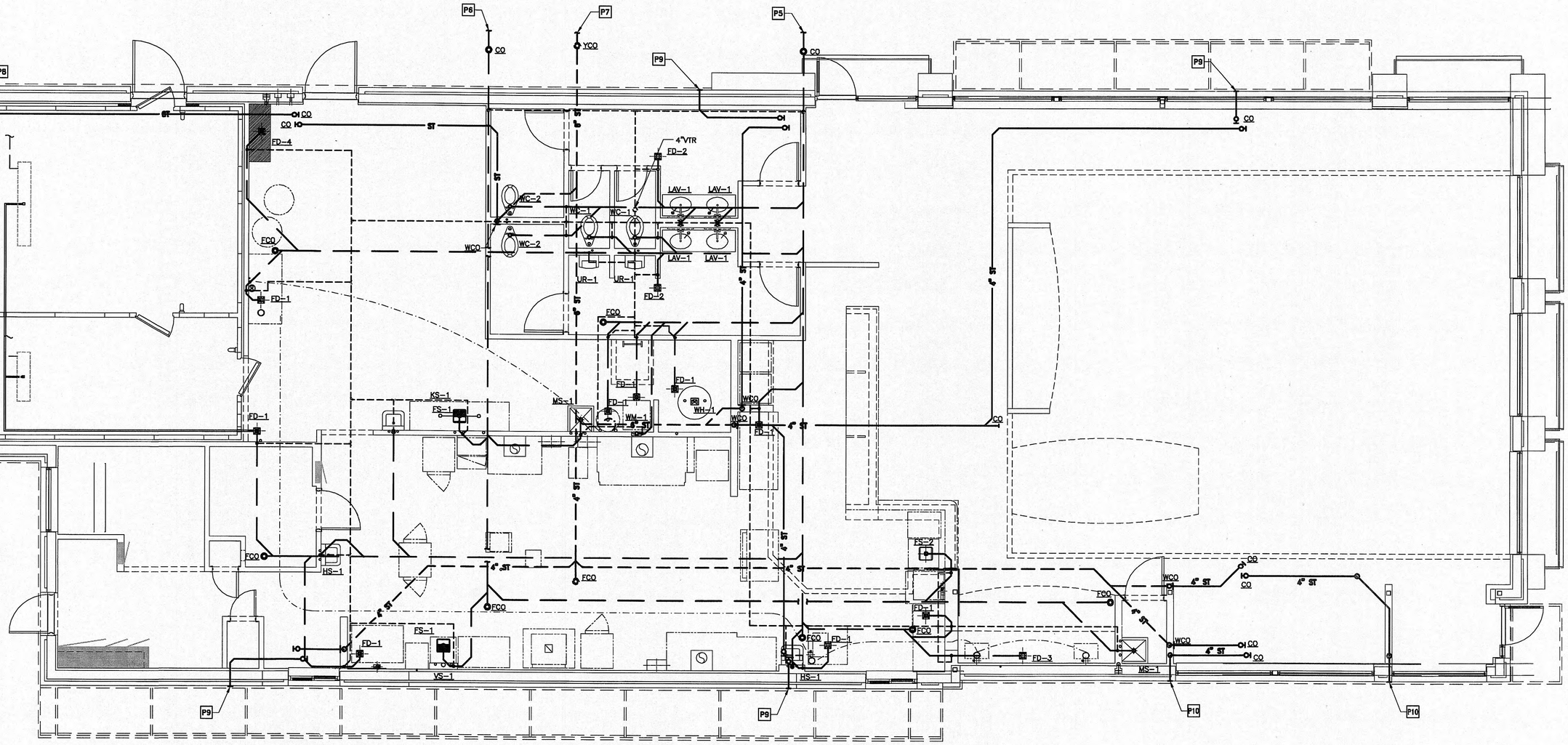

WASTE & STORM PIPING PLAN

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

DRAWING NOTES

1. SEE DRAWING P-3.2 FOR PLUMBING LEGEND.
2. SEE DRAWING P-0.0 FOR GENERAL PLUMBING NOTES.
3. SEE DRAWING P-3.2 FOR PLUMBING FIXTURE SCHEDULES AND DETAILS.
4. SEE DRAWING P-2.0 FOR PLUMBING ROUGH-INS.

KEYED NOTES

P5	SANITARY LINE TO SANITARY SEWER (SEE SITE PLAN FOR CONTINUATION)
P6	GREASE LINE TO EXTERIOR GREASE INTERCEPTOR (SEE SITE PLAN FOR CONTINUATION)
P7	STORM LINE TO STORM SYSTEM (SEE SITE PLAN FOR CONTINUATION)
P8	TERMINATE OVERFLOW DRAIN AS HIGH AS POSSIBLE WITH DOWNSPOUT COVER
P9	TERMINATE OVERFLOW DRAIN ABOVE TRELLIS WITH DOWNSPOUT COVER
P10	TERMINATE OVERFLOW DRAIN 12" ABOVE FINISHED FLOOR WITH DOWNSPOUT COVER
P11	3" VENT THROUGH SIDE WALL – TERMINATE WITH BIRDSCREEN
P12	PLUMBING CONTRACTOR SHALL COORDINATE FLOOR DRAIN LOCATIONS WITH McDONALD'S AREA CONSTRUCTION MANAGER AND SHALL VERIFY THAT FLOOR DRAIN LOCATIONS MEET LOCAL CODE REQUIREMENTS (DISTANCE FROM TRAP TO VENT)

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REV	DATE	DESCRIPTION	BY

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STATE OF TENNESSEE
1/23/09

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McDonald's USA, LLC

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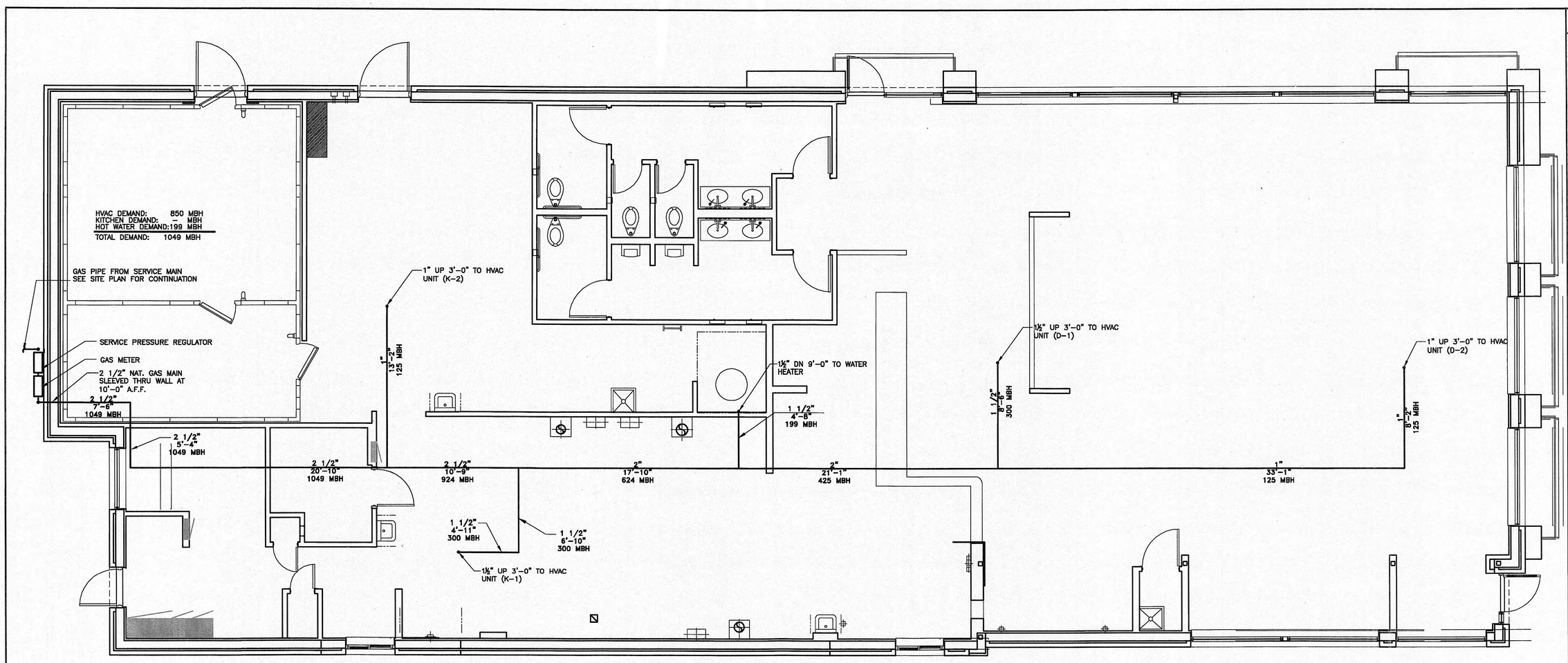
STD ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG

DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES

SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO. 041-0084-00-0
P1.2
WASTE & STORM



GAS PIPING PLAN

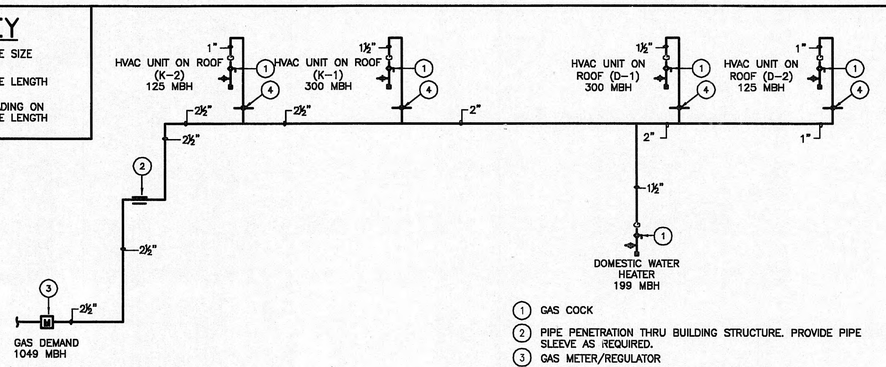
SCALE: 1/4"=1'-0"

DRAWING NOTES

1. SEE DRAWING P3.2 FOR PLUMBING LEGEND.
2. SEE DRAWING P0.0 FOR GENERAL PLUMBING NOTES.
3. SEE DRAWING P3.2 FOR PLUMBING FIXTURE SCHEDULES AND DETAILS.
4. SEE DRAWING P2.0 FOR PLUMBING ROUGH-INS.

PIPING KEY

2 1/2" — PIPE SIZE
10'-11" — PIPE LENGTH
1010 MBH — LOADING ON PIPE LENGTH



GAS RISER DIAGRAM

NOT TO SCALE

1. GAS COCK
2. PIPE PENETRATION THRU BUILDING STRUCTURE. PROVIDE PIPE SLEEVE AS REQUIRED.
3. GAS METER/REGULATOR
4. GAS PIPING UP THRU THE ROOF. COORDINATE PIPE ROOF PENETRATION WITH AC UNIT LOCATION IN THE FIELD.
5. AUTOMATIC GAS SHUT-OFF VALVE PART OF ANSUL PACKAGE

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Jason B. Greenberg
Registered Engineer
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Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO. 041-0084-00-0
P1.4
PIPING-GAS

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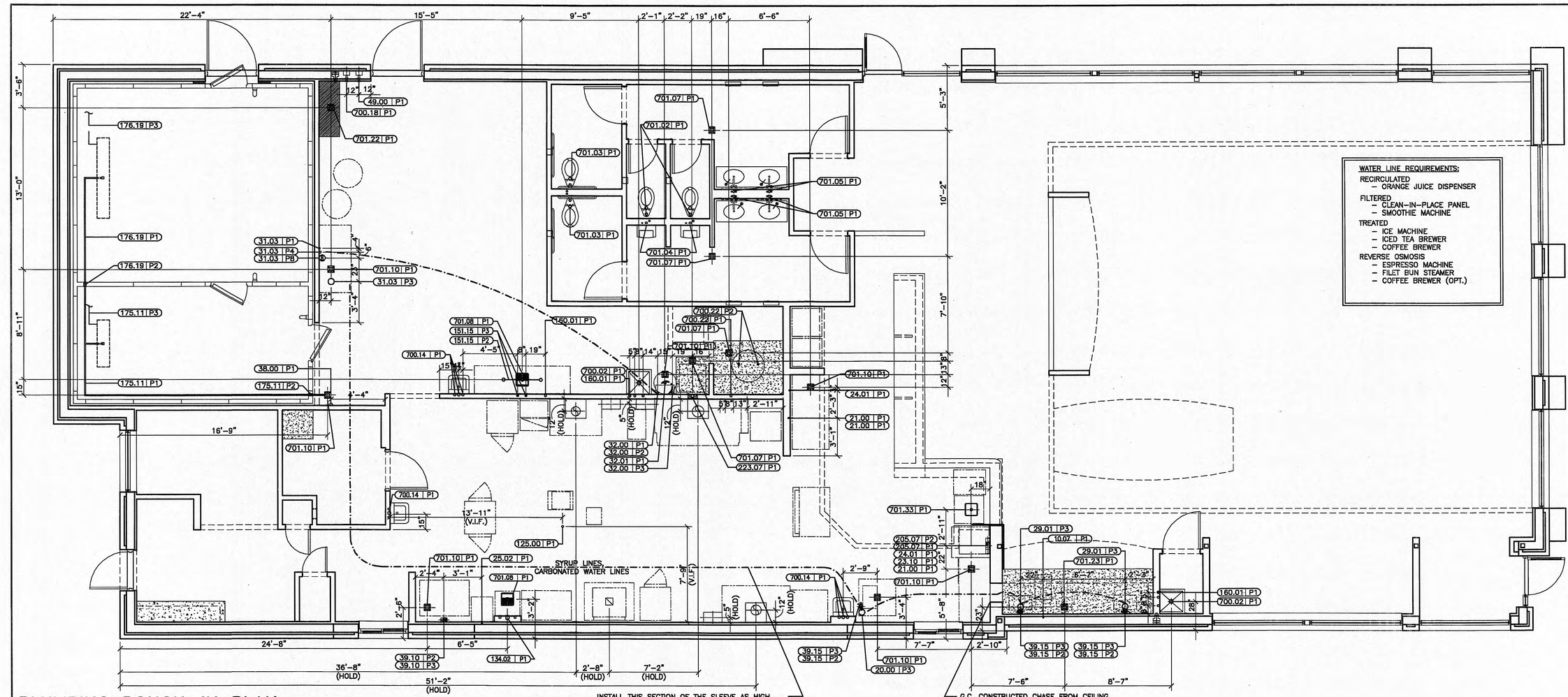

PLUMBING ROUGH-IN PLAN

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

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

PLUMBING SCHEDULE

TAG #	QTY	DESCRIPTION	GAS TYPE	GAS BTU	GAS SIZE	HW	CW	MISC PLBG	HGT AFF	DRAIN	REQUIREMENTS & REMARKS
010.07P1	1	CO2 DRIVEN KETCHUP DISPENSERS	–	–	–	–	–	3/8" CO2	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CO2 LINE, LOCAL CODES PERMITTING
020.00P3	1	AUTOMATED BEVERAGE SYSTEM	–	–	–	–	–	SODA BUNDLE	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – 7" FROM D/T IF REQUIRED – BSI TO MAKE FINAL CONNECTIONS, LOCAL CODES PERMITTI
021.00P1	3	COFFEE BREWER (GLASS DECANTERS)	–	–	–	–	–	1/2" TREATED	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE, LOCAL CODES PERMITTING
023.10P1	1	ESPRESSO BREWER	–	–	–	–	–	3/8" R.O.	SEE RMKS	–	DN CHASE FROM R.O. SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE, LOCAL CODES PERMITTING
024.01P1	2	ORANGE JUICE DISPENSER	–	–	–	–	–	1/2" FILTERED	SEE RMKS	–	DN CHASE FROM SODA TOWER CW LINE W/ RECIRC/CHILLED INSULATED BUNDLE–BSI CONN CWLINE,LOCAL CODES PERMITTING
025.02P1	2	ICED TEA BREWER & PORTABLE SERVER	–	–	–	–	–	1/2" TREATED	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE, LOCAL CODES PERMITTING
029.01P3	2	SODA TOWER – COLD PLATE – 8 VALVE – LEVER CONTROL	–	–	–	–	–	SODA BUNDLE	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – BSI TO MAKE FINAL CONNECTIONS, LOCAL CODES PERMITTING
031.03P1	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	–	3/8" OUTLET	SEE RMKS	–	FLEX LINE OVERHEAD TO VARIOUS EQUIP. SEE WATER LINE REQ. THIS SHT.–BSI TO MAKE FINAL CONN, LOCAL CODES PERMITTING
031.03P3	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	–	SODA BUNDLE	SEE RMKS	–	OVERHEAD TO SODA TOWER CHASE(S) – BSI TO MAKE FINAL CONNECTIONS, LOCAL CODES PERMITTING
031.03P4	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	3/4"	–	3'-6"	–	PC TO MAKE CONNECTION FROM WALL LOCATION TO SODA SYSTEM (VERIFY HEIGHT IN FIELD)
031.03P8	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING– 3 TOWERS)	–	–	–	–	–	REFRIG LINES	SEE RMKS	–	FROM REMOTE CONDENSING UNIT
032.00P1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – PRESSURE GAUGE MONITOR	–	–	–	–	–	3/8" INLET	SEE RMKS	–	FLEX LINE OVERHEAD FROM SODA SYSTEM BOOSTER–BSI TO MAKE FINAL CONN, LOCAL CODES PERMITTING. 100 PSI MIN. PRESSURE
032.00P2	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – PRESSURE GAUGE MONITOR	–	–	–	–	–	3/8" OUTLET	SEE RMKS	–	FLEX LINE OVERHEAD TO 20 GAL. TANK.–BSI TO MAKE FINAL CONN, LOCAL CODES PERMITTING
032.00P3	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – PRESSURE GAUGE MONITOR	–	–	–	–	–	3/8" OUTLET	SEE RMKS	–	FLEX LINE OVERHEAD TO VARIOUS EQUIP. SEE WATER LINE REQ. THIS SHT.–BSI TO MAKE FINAL CONN, LOCAL CODES PERMITTING
032.01P1	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM – 20 GAL. TANK	–	–	–	–	–	3/8" INLET	SEE RMKS	–	FLEX LINE OVERHEAD FROM PRESSURE GAUGE MONITOR –BSI TO MAKE FINAL CONN, LOCAL CODES PERMITTING
038.00P1	1	CLEAN IN PLACE PANEL	–	–	–	–	–	1/2" FILTERED	SEE RMKS	–	CONNECT TO SODA SYSTEM PACKAGE
039.10P2	1	ICE MACHINE – 1300 LB.	–	–	–	–	–	1/2" TREATED	–	–	FLEX LINE OVERHEAD FROM SODA SYSTEM – BSI TO MAKE FINAL CONNECTIONS, LOCAL CODES PERMITTING
039.10P3	1	Not In Master	–	–	–	–	–	–	–	–	–
039.15P2	3	ICE MACHINE – 1000 LB.	–	–	–	–	–	1/2" TREATED	–	–	FLEX LINE OVERHEAD FROM SODA SYSTEM – BSI TO MAKE FINAL CONNECTIONS, LOCAL CODES PERMITTING
039.15P3	3	ICE MACHINE – 1000 LB.	–	–	–	–	–	REFRIG LINES	–	–	PRE-CHARGED REFRIGERATION LINES OVERHEAD FROM REMOTE CONDENSING UNIT
049.00P1	1	CO2 FILL BOX	–	–	–	–	–	–	1'-11"	–	HEIGHT IS TO CENTERLINE OF FILL BOX;INSTALLED BY G.C.
125.00P1	1	RAPID FILET BUN STEAMER	–	–	–	–	–	3/8" R.O.	SEE RMKS	–	BSI EXTENDS CW LINE FROM R.O. SYSTEM & TERM. W/QUICK DISCONN.
134.02P1	1	VEGETABLE SINK	–	–	–	3/4" 140	3/4"	1–1/2"INDDRAIN	1'-10"	–	OPEN SITE, INDIRECT DRAIN
151.15P2	1	WORK SINK – HOUSTON CODE	–	–	–	–	–	–	–	1 1/2"	PC TO MAKE FINAL CONNECTIONS PER LOCAL CODE
151.15P3	1	WORK SINK – HOUSTON CODE	–	–	–	3/4" 140	3/4"	–	1'-6"	–	PC MAKES FINAL CONNECTIONS PER LOCAL CODE

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

PLUMBING SCHEDULE

TAG #	QTY	DESCRIPTION	GAS TYPE	GAS BTU	GAS SIZE	HW	CW	MISC PLBG	HGT AFF	DRAIN	REQUIREMENTS & REMARKS
160.01P1	3	CHEMICAL SYSTEM	–	–	–	3/4" 120	–	–	5'-0"	–	PC TO MAKE FINAL CONNECTIONS PER LOCAL CODE
175.11P1	1	COOLER EVAPORATOR – AIR–COOLED	–	–	–	–	–	3/4" LINE	–	–	3/4" CONDENSATE DRAIN LINE W/RETURN BEND & TRAP–SUPP. BY REFRIG. CONTRACTOR
175.11P2	1	COOLER EVAPORATOR – AIR–COOLED	–	–	–	–	–	–	–	–	OPENING FOR 3/4" CONDENSATION DRAIN LINE–SEALED WEATHER TIGHT BY GC
175.11P3	1	COOLER EVAPORATOR – AIR–COOLED	–	–	–	–	–	REFRIG LINES	–	–	RUN TO REMOTE CONDENSING UNIT–INSULATE FULL RUN LENGTH–INSTALLED BY REFRIG. CONTRACTOR
176.19P1	1	FREEZER EVAPORATOR – AIR–COOLED	–	–	–	–	–	3/4" LINE	–	–	3/4" CONDENSATE DRAIN LINE W/RETURN BEND & TRAP–SUPP. BY REFRIG. CONTRACTOR
176.19P2	1	FREEZER EVAPORATOR – AIR–COOLED	–	–	–	–	–	–	–	–	OPENING FOR 3/4" CONDENSATION DRAIN LINE–SEALED WEATHER TIGHT BY GC
176.19P3	1	FREEZER EVAPORATOR – AIR–COOLED	–	–	–	–	–	REFRIG LINES	–	–	RUN TO REMOTE CONDENSING UNIT–INSULATE FULL RUN LENGTH–INSTALLED BY REFRIG. CONTRACTOR
205.07P1	1	SMOOTHIE MACHINE	–	–	–	–	–	1/2" FILTERED	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CW LINE, LOCAL CODES PERMITTING
205.07P2	1	SMOOTHIE MACHINE	–	–	–	–	–	3/8" CO2	SEE RMKS	–	DN CHASE FROM SODA SYSTEM – IF NO CHASE RUN IN 2"COND TO JB –BSI TO CONN CO2 LINE, LOCAL CODES PERMITTING
223.07P1	1	WASHER	–	–	–	3/4" 140	3/4"	–	4'-0"	1 1/2" D	–
700.02P1	2	MOP SINK	–	–	–	3/4"	3/4"	–	2'-8"	3" DRAIN	3" WASTE DOWN W/ 2" VENT UP – HW =140 DEGREES
700.14P1	3	HAND SINK 18 x 20" – STAINLESS STEEL NORTH CAROLINA CODE	–	–	–	1/2"	1/2"	–	SEE RMKS	2 1/2" D	2" WASTE @ 2'–0" AFF WITH 1 1/2" VENT UP–WATER LINES @ 1'–8" – HW =110 DEGREES – ADA APPROVED LEVER HANDLES REQ. – MOUN
700.18P1	1	BULK OIL FILL BOX	–	–	–	–	–	–	1'–11"	–	HEIGHT IS TO CENTERLINE OF FILL BOX;INSTALLED BY G.C.
700.22P1	1	WATER HEATER – SEALED COMBUSTION – GAS	–	199,000	1 1/4"	–	–	–	SEE RMKS	–	PC TO VERIFY WATER HEATER INSTALLATION HEIGHT – SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION
700.22P2	1	WATER HEATER – SEALED COMBUSTION – GAS	–	–	–	1"	1"	–	SEE RMKS	–	PC TO VERIFY WATER HEATER INSTALLATION HEIGHT – SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION
701.02P1	2	WATER CLOSET	–	–	–	–	1 –	2" VENT	–	4" DRAIN	SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION
701.03P1	2	WATER CLOSET – ADA	–	–	–	–	1 –	2" VENT	–	4" DRAIN	SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION
701.04P1	2	URINAL	–	–	–	–	1"	2" VENT	–	3" DRAIN	SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION
701.05P1	4	LAVATORY – VANITY	–	–	–	1/2"	1/2"	2" VENT	–	3" DRAIN	SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION – MOUNT SINK BOWL RIM @ 34" A.F.F.
701.07P1	4	3" FLOOR DRAIN	–	–	–	–	–	2" VENT	–	3" DRAIN	SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION
701.08P1	2	3" FLOOR SINK – 1/2 GRATE	–	–	–	–	–	2" VENT	–	3" DRAIN	SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION
701.10P1	7	3" FLOOR DRAIN WITH FUNNEL	–	–	–	–	–	2" VENT	–	3" DRAIN	SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION
701.22P1	1	4" FLOOR DRAIN	–	–	–	–	–	2" VENT	–	4" DRAIN	SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION
701.23P1	1	4" FLOOR DRAIN W/ 9"x3" FUNNEL	–	–	–	–	–	2" VENT	–	4" DRAIN	SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION
701.33P1	1	3" FLOOR SINK – 2 1/2" DIA CENTER HOLE IN SOLID COVER	–	–	–	–	–	2" VENT	–	3" DRAIN	SEE PLUMBING SPECIFICATION LEGEND FOR ADDITIONAL INFORMATION

REV	DATE	DESCRIPTION	BY

PREPARED BY:
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Registered Engineer
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Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE
MJN	JAN 2008
REVIEWED BY	DATE ISSUED
MR/TW	1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114-5R MASONRY/STEEL BLDG
DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES

SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO.
041-0084-00-0
P2.0
ROUGH-IN PLAN

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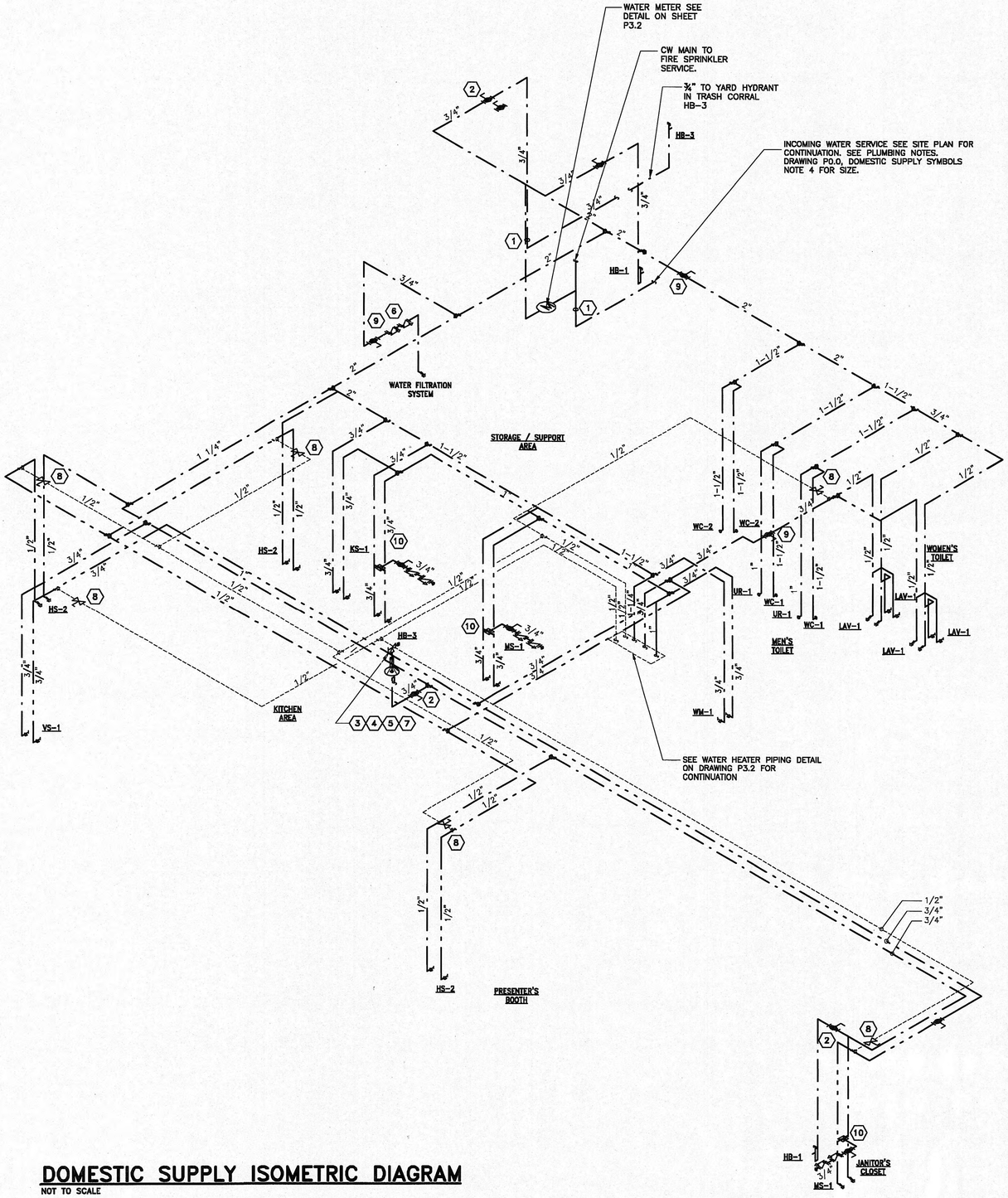

DOMESTIC SUPPLY ISOMETRIC DIAGRAM

NOT TO SCALE

RISER DIAGRAM NOTES:

1. PIPE PENETRATION THRU BUILDING STRUCTURE. PROVIDE PIPE SLEEVE AS REQUIRED.
2. LOCATE HYDRANT SHUTOFF VALVE IN A CONVENIENT AND ACCESSIBLE LOCATION. VERIFY WITH McDONALD'S PROJECT MANAGER EXACT LOCATION.
3. FREEZE PROOF HYDRANT. VERIFY EXACT LOCATION WITH McDONALD'S PROJECT MANAGER.
4. PROVIDE ROOF FLASHING FOR ROOF HOSE BIBB.
5. ROOF HOSE BIBB, VERIFY EXACT LOCATION WITH McDONALD'S. PROJECT MANAGER.
6. PROVIDE 3/4" STAINLESS STEEL REDUCED PRESSURE PRINCIPLE BACK FLOW PREVENTOR ASSEMBLY, WATTS MODEL# SS009QT.
7. 1/4" DRAIN FROM ROOF HYDRANT. EXTEND DRAIN TO FLOOR DRAIN AT DRIVE THRU. VERIFY EXACT LOCATION WITH McDONALD'S PROJECT MANAGER.
8. BALANCING VALVE.
9. PROVIDE SHUT OFF VALVE. VALVE TO BE LABELED. VERIFY LOCATION WITH PROJECT MANAGER.
10. PROVIDE THERMOSTATIC MIXING VALVE, MODEL: WATTS, MMV-M1. LOCATE IN THE WALL WITH 120° F WATER OUT. PROVIDE ACCESS PANEL IN THE WALL.

BY	DESCRIPTION	DATE	REV

PREPARED BY:
Jason B. Greenberg
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR: McDonald's USA, LLC

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SHEET NO.	P3.0
TITLE	2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION	6" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ACCENTS
SITE ID	041-0084
SITE ADDRESS	1705 South Roselle Street, Harriman, TN 37748
DRAWN BY	TP
STD. ISSUE DATE	JAN 2008
REVIEWED BY	MR/TW
DATE ISSUED	1/23/2009

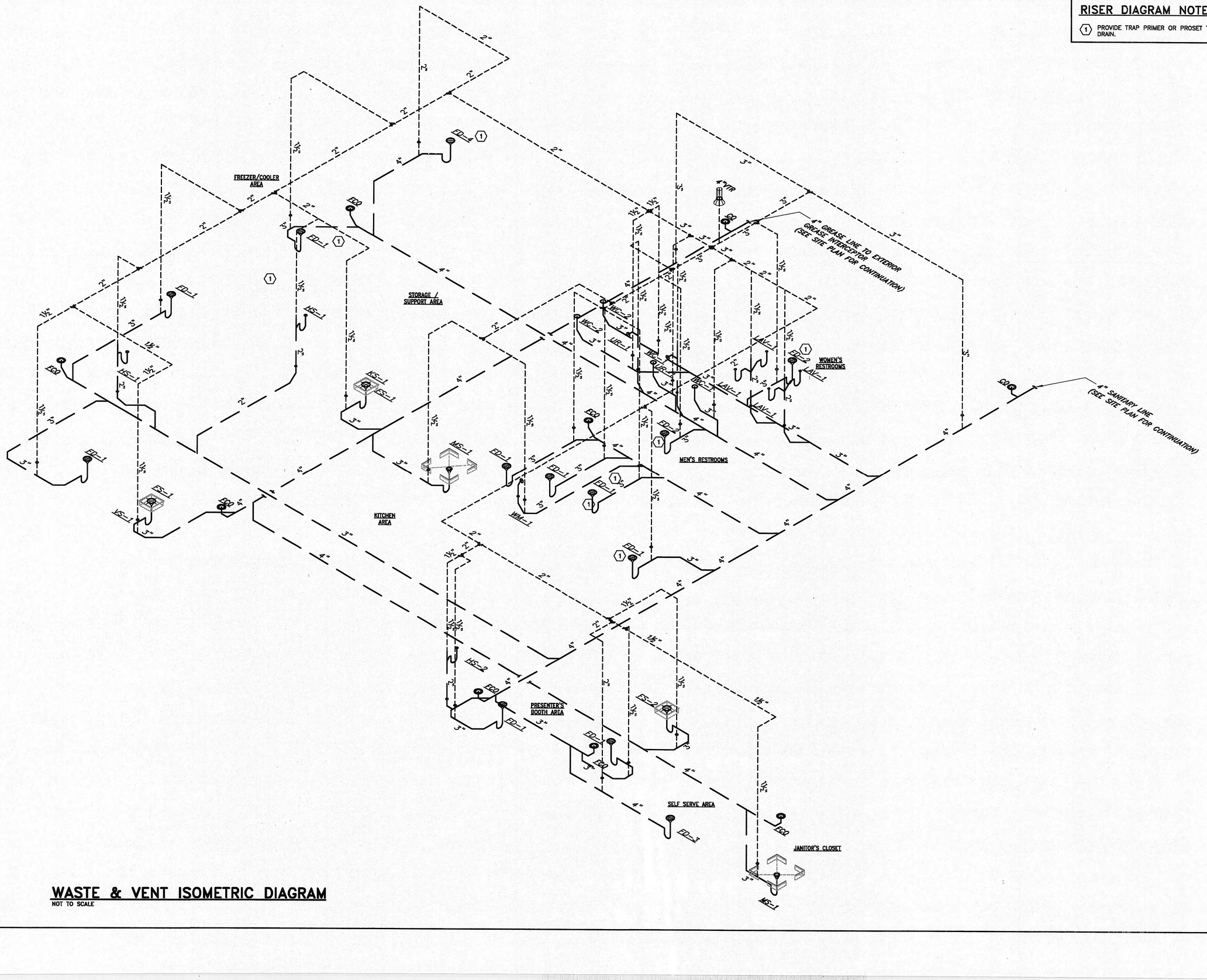
041-0084-00-0

ISOMETRIC PLAN

K:\DIV\EAST_ RAL\041-0084-00-0 HARRIMAN\45114MS_P3-0_P3-1_P3-2.DWG 01-22-2009 15:27

RISER DIAGRAM NOTES:

1. PROVIDE TRAP PRIMER OR PROSET TRAP GUARD FOR FLOOR DRAIN.



WASTE & VENT ISOMETRIC DIAGRAM

NOT TO SCALE

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REV	DATE	DESCRIPTION	BY

PREPARED BY:
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2111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR:
McDonald's USA, LLC

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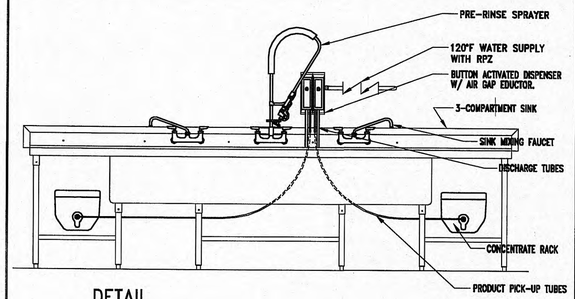
DRAWN BY	TP
STD ISSUE DATE	JAN 2008
REVIEWED BY	MR/TW
DATE ISSUED	1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION	
8" CMU BEARING WALLS + 4" FACE BRICK	
BAR JOIST ROOF FRAMING	
CULTURED STONE ARCADES	
SITE ID	SITE ADDRESS
041-0084	1705 South Roane Street, Harriman, TN 37748

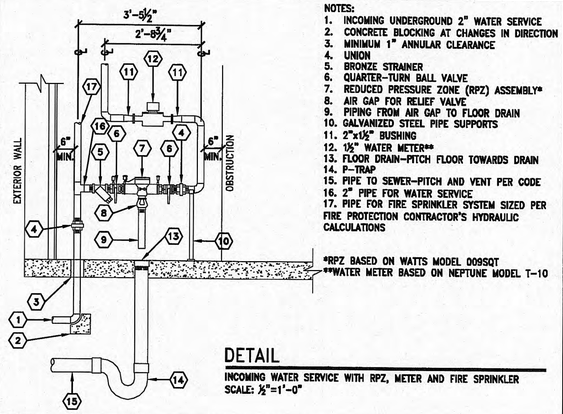
SHEET NO.
041-0084-00-0
P3.1
ISOMETRIC PLAN



DETAIL

CHEMICAL SYSTEM AT 3-COMP SINK
SCALE: NONE

NOTE: THIS DETAIL IS SHOWN FOR REFERENCE ONLY. ALL REQUIREMENTS SHALL BE VERIFIED AND COORDINATED WITH THE CONSTRUCTION MANAGER AND KITCHEN EQUIPMENT SUPPLIER.

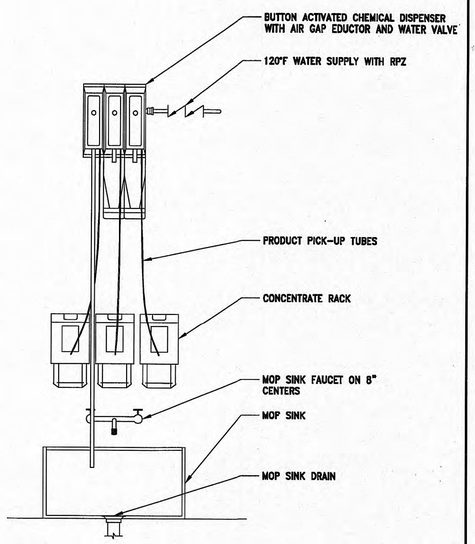


NOTES:
1. INCOMING UNDERGROUND 2" WATER SERVICE
2. CONCRETE BLOCKING AT CHANGES IN DIRECTION
3. MINIMUM 1" ANNULAR CLEARANCE
4. UNION
5. BRONZE STRAINER
6. QUARTER-TURN BALL VALVE
7. REDUCED PRESSURE ZONE (RPZ) ASSEMBLY*
8. AIR GAP FOR RELIEF VALVE
9. PIPING FROM AIR GAP TO FLOOR DRAIN
10. GALVANIZED STEEL PIPE SUPPORTS
11. 2"x1½" BUSHING
12. 1½" WATER METER**
13. FLOOR DRAIN-PITCH FLOOR TOWARDS DRAIN
14. P-TRAP
15. PIPE TO SEWER-PITCH AND VENT PER CODE
16. 2" PIPE FOR WATER SERVICE
17. PIPE FOR FIRE SPRINKLER SYSTEM SIZED PER FIRE PROTECTION CONTRACTOR'S HYDRAULIC CALCULATIONS

*RPZ BASED ON WATTS MODEL 009SQT
**WATER METER BASED ON NEPTUNE MODEL T-10

DETAIL

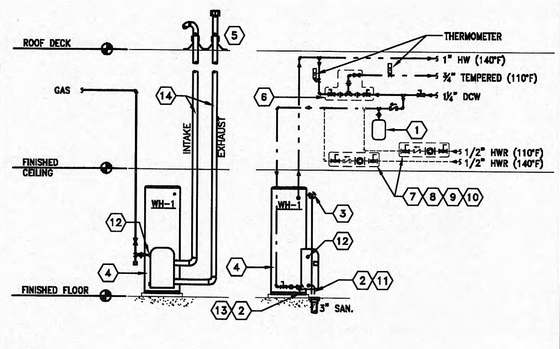
INCOMING WATER SERVICE WITH RPZ, METER AND FIRE SPRINKLER
SCALE: ½"=1'-0"



DETAIL

CHEMICAL SYSTEM AT MOP SINK
SCALE: NONE

NOTE: THIS DETAIL IS SHOWN FOR REFERENCE ONLY. ALL REQUIREMENTS SHALL BE VERIFIED AND COORDINATED WITH THE CONSTRUCTION MANAGER AND KITCHEN EQUIPMENT SUPPLIER.



NOTES:
1. THERMAL EXPANSION TANK
2. EXTEND WATER HEATER, CONDENSATE AND T&P DRAINS TO FLOOR DRAIN
3. WATER HEATER PRESSURE/TEMPERATURE RELIEF VALVE
4. WATER HEATER
5. VERTICAL GAS FLUE VENT FOR WATER HEATER
6. TEMPERING/ANTI-SCALD VALVE SET AT 110°F.
7. SWING CHECK VALVE
8. B&G SERIES 100, BRONZE BODY PUMP (RATED FOR 12 GPM @ 15' OF HEAD) ½ HP MOTOR CONTROLLED BY AQUASTAT AND TIMECLOCK
9. BALANCING VALVE
10. STRAP-ON AQUASTAT FOR PUMP CONTROL
11. SEALED-COMBUSTION CONDENSATE DRAIN
12. GAS CONNECTION
13. WATER HEATER DRAIN
14. SEALED-COMBUSTION INTAKE AND VENT
15. NOT USED

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	HP	V	Ø	Hz	ACCESSORIES
RP-1 & RP-2	BELL & GOSSETT	6013	½	120	1	60	1-3
	TACO	112	½	120	1	60	1-3
	GRUNDFOS	UP43-75F	⅛	120	1	60	1-3

ACCESSORIES:
1. TIMECLOCK
2. AQUASTAT
3. CHECK VALVE

DETAIL

WATER HEATER PIPING WITH RECIRC (STANDARD)
SCALE: NONE

ABBREVIATIONS

CO	CLEAN-OUT
WCO	WALL CLEAN-OUT
FCO	FLOOR CLEAN-OUT
PC	PLUMBING CONTRACTOR
GC	GENERAL CONTRACTOR
KES	KITCHEN EQUIPMENT SUPPLIER
O/O	OWNER/OPERATOR
SC	SITE CONTRACTOR

LEGEND

	FLOOR DRAIN
	CLEAN-OUT (FLOOR OR YARD)
	FLOOR SINK
	UNDERGROUND WASTE PIPING
	VENT PIPING
ST	ABOVE GROUND STORM PIPING
ST	UNDERGROUND STORM PIPING
	HOSE BIBB
	COLD WATER PIPING
	110 HOT WATER PIPING
	140 HOT WATER PIPING
	RECIRCULATED HOT WATER PIPING
	OVERHEAD LINES (BY P.C.)
	CHECK VALVE
	BALL VALVE
	THERMOSTATIC MIXING VALVE

PLUMBING FIXTURE SCHEDULE[1]

TAG	BY	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES/COMMENTS
WC-1	PC	STANDARD FLOOR-MOUNT WATER CLOSET	AMERICAN STANDARD	2234.015 MADERA EL 1.6	FLUSH VALVE, ANTI-MICROBIAL OPEN FRONT SEAT LESS COVER, BOLT CAPS
WC-2	PC	ADA FLOOR-MOUNT WATER CLOSET	AMERICAN STANDARD	2305.100 MADERA EL 1.6	FLUSH VALVE, ANTI-MICROBIAL OPEN FRONT SEAT LESS COVER, BOLT CAPS
UR-1	PC	ADA WALL-HUNG URINAL	AMERICAN STANDARD	6501.010 WASHBROOK	FLUSH VALVE, S.S. STRAINER, TYPE II URINAL CARRIER W/ CONCEALED ARMS AND TIE ROD
LAV-1	PC	VANITY TYPE LAVATORY	CORIAN	BY GENERAL CONTRACTOR	FAUCET, ⅜" NPS CHROME-PLATED COPPER WITH STOPS, GRID DRAIN, 1¼" NPS CHROME-PLATED CAST-BRASS P-TRAP, ADA COMPLIANT PROTECTIVE SHIELDING GUARD
LAV-2	PC	WALL-HUNG LAVATORY	AMERICAN STANDARD	0124.131 COMRADE	FAUCET, ⅜" NPS CHROME-PLATED COPPER WITH STOPS, GRID DRAIN, 1¼" NPS CHROME-PLATED CAST-BRASS P-TRAP, ADA COMPLIANT PROTECTIVE SHIELDING GUARD, TYPE II LAVATORY CARRIER WITH CONCEALED ARMS AND TIE ROD
FD-1	PC	FLOOR DRAIN WITH ROUND FUNNEL	ZURN	Z415H-3 W/ Z-328	6"ø NICKEL-BRONZE FINISH STRAINER, 3"ø PIPE SIZE, 4"ø NICKEL-BRONZE FUNNEL
FD-2	PC	FLOOR DRAIN	ZURN	Z415H-3	6"ø NICKEL-BRONZE FINISH STRAINER, 3"ø PIPE SIZE
FD-3	PC	FLOOR DRAIN WITH OVAL FUNNEL	ZURN	Z415H-4 W/ Z-329	6"ø NICKEL-BRONZE FINISH STRAINER, 4"ø PIPE SIZE, 3½"x8½" OVAL FUNNEL
FD-4	PC	FLOOR DRAIN	ZURN	Z415H-4	6"ø NICKEL-BRONZE FINISH STRAINER, 4"ø PIPE SIZE
FS-1	PC	FLOOR SINK	ZURN	Z1901-2-3	12"x12"x8"D W ½" THICK NICKEL-BRONZE GRATE, 3"ø PIPE SIZE, ALUMINUM DOME STRAINER
FS-2	PC	FLOOR SINK	JAY R. SMITH	3003NB-44	12"x12"x8"D W SOLID COVER WITH 2½" HOLE, 3"ø PIPE SIZE, ALUMINUM DOME STRAINER
HB-1	PC	AUTOMATIC DRAINING, FREEZELESS, ANTI-SIPHON WALL HYDRANT	WOODFORD	65C	-
HB-2	PC	ANTI-SIPHON CLOSE-COUPLED WALL HYDRANT	WOODFORD	84C	-
HB-3	PC	FREEZELESS POST YARD HYDRANT	WOODFORD	Y34	-
MS-1	PC	MOP SINK (STANDARD - SOLID SURFACE)	FIAT	MSB-2424	FAUCET, GRID WITH 3" NPS OUTLET AND P-TRAP
MS-1	PC	MOP SINK (OPTIONAL - STAINLESS STEEL)	JUST	C-2523	FAUCET, GRID WITH 3" NPS OUTLET AND P-TRAP
MS-1	PC	MOP SINK (OPTIONAL - STAINLESS STEEL TROUGH)	ADVANCE TABCO	FTG-2424	24"x24"x4"H, FAUCET, S.S. STRAINER, 4" NPS OUTLET, S.S. GRATE
HS-1	PC	STAINLESS STEEL HAND SINK	ELKAY	CHS1716C	FAUCET SUPPLED WITH SINK, ½" NPS CHROME-PLATED COPPER WITH STOPS, GRID DRAIN, 1½" NPS CHROME-PLATED CAST-BRASS P-TRAP, ADA COMPLIANT PROTECTIVE SHIELDING GUARD, TYPE III CARRIER W HANGER AND BEARING PLATES AND TIE ROD
HS-2	PC	STAINLESS STEEL HAND SINK - ADA	ADVANCE TABCO	7-PS-26	
KS-1	KES	3-COMPARTMENT SINK	-	SEE KITCHEN DRAWINGS	FAUCET AND BASKET DRAIN SUPPLIED WITH SINK, 1½" NPS CHROME-PLATED CAST-BRASS P-TRAP OR INDIRECT DRAIN, ½" NPS CHROME-PLATED COPPER WITH STOPS
			-	ITEM: 151.00	
VS-1	KES	VEGETABLE PREPARATION SINK	-	SEE KITCHEN DRAWINGS	FAUCET AND BASKET DRAIN SUPPLIED WITH SINK, 1½" NPS CHROME-PLATED CAST-BRASS P-TRAP OR INDIRECT DRAIN, ½" NPS CHROME-PLATED COPPER WITH STOPS
			-	ITEM: 134.02	
VWW-1	KES	VERTICAL WAREWASHER (OPTIONAL)	-	SEE KITCHEN DRAWINGS	BALL VALVE STOP WITH THREADED END, ONE (1) ¾" PISTON TYPE HAMMER ARRESTOR, 1½" INDIRECT DRAIN
			-	ITEM: 152.01	
WM-1	KES	WASHING MACHINE	-	SEE KITCHEN DRAWINGS	GUY GRAY B-150 SPACE SAVER BOX, TWO (2) ¾" PISTON TYPE HAMMER ARRESTORS
			-	ITEM: 223.00	
		FLUSH VALVES			
-	PC	WATER CLOSET SENSOR FLUSHOMETER	SLOAN	8111	BATTERY-OPERATED WITH COURTESY FLUSH
-	PC	URINAL SENSOR FLUSHOMETER	SLOAN	8180	BATTERY-OPERATED WITH COURTESY FLUSH
		FAUCETS			
-	PC	LAVATORY FAUCET SENSOR TYPE	CHICAGO FAUCETS	650-4	BATTERY-OPERATED
-	PC	MOP SINK FAUCET INTEGRAL VACUUM BREAKER	CHICAGO FAUCETS	897	BATTERY-OPERATED
		ROOF DRAINS AND OVERFLOW ROOF DRAINS			
-		ROOF DRAIN	ZURN	Z121*NH	SEE DRAWINGS FOR PIPE SIZES (OPTIONAL: PVC BODY DRAIN WHERE PERMITTED)
-		OVERFLOW ROOF DRAIN	ZURN	Z122*NH-HD	SEE DRAWINGS FOR PIPE SIZES (OPTIONAL: PVC BODY DRAIN WHERE PERMITTED)
-		OVERFLOW DOWNSPOUT COVER	ZURN	Z199-DC-*	SEE DRAWINGS FOR PIPE SIZES

NOTES:
1. SEE McDONALD'S PROJECT MANUAL FOR ADDITIONAL MANUFACTURERS

INTERCEPTORS

TAG	BY	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES/NOTES
EGI	SC	EXTERIOR GREASE INTERCEPTOR	GREEN TURTLE	PROCEPTOR - 1500 GALLONS	1-3

NOTES:
1. SEE McDONALD'S PROJECT MANUAL FOR ADDITIONAL MANUFACTURERS
2. ALTERNATE PRECAST CONCRETE WITH INTERIOR DOUBLE-LAYER EPOXY COAT APPROVED BY THE AUTHORITY HAVING JURISDICTION
3. SEE SITE PLAN FOR LOCATION

Water Heaters

Used	Manufacturer	Model	Utility	Type	Capacity	Input Heating		First hour delivery gph	Recovery gph	Dimensions Tank Dia.	Dimensions Control Panel	Dimensions Overall	Electrical Volts	Electrical Phase	Electrical Hz	Electrical F.L.A.
					Gallons	Btu/hr	kW	100°F rise	100°F rise	in.	in.	in.				
Standard Water Heaters																
X	A.O. Smith	BTH-199	Gas	Sealed	100	199	-	-	227	27.75	0.00	27.75	120	1	60	<20
	A.O. Smith	DRE-120-54	Electric	-	119	-	54	-	221	29.50	6.25	35.75	208	3	60	150
X	Bradford White	EF-100T-199E-3NA	Gas	Sealed	100	199	-	309	239	28.25	0.00	28.25	120	1	60	<20
	Bradford White	M-II-120A-54-3	Electric	-	119	-	54	-	223	30.00	7.25	37.25	208	3	60	150
X	Rheem-Ruud	HE-119-199	Gas	Sealed	119	199	-	-	229	27.00	9.00	36.00	120	1	60	<20
	Rheem-Ruud	ES120-54-G	Electric	-	119	-	54	-	223	30.25	5.75	36.00	208	3	60	150
X	State	SUF100-199NE	Gas	Sealed	100	199	-	297	227	27.75	0.00	27.75	120	1	60	<20
	State	CSB120-56IFE	Electric	-	119	-	54	304	221	29.50	6.25	35.75	208	3	60	150
Optional Water Heaters (acceptable for use with standard 3-compartment sink only)																
	A.O. Smith	BTH-150	Gas	Sealed	100	150	-	-	171	27.75	0.00	27.75	120	1	60	<20
	A.O. Smith	DRE-80-36	Electric	-	80	-	36	-	148	25.25	6.00	31.25	208	3	60	100
	Bradford White	EF-100T-150E-3NA	Gas	Sealed	100	150	-	250	180	28.25	0.00	28.25	120	1	60	<20
	Bradford White	M-II-80A-36-3	Electric	-	80	-	36	-	149	26.00	6.50	32.50	208	3	60	100
	Rheem-Ruud	HE-80-160	Gas	Sealed	80	160	-	-	184	23.50	8.50	32.00	120	1	60	<20
	Rheem-Ruud	ES85-36-G	Electric	-	85	-	36	-	149	28.25	5.75	34.00	208	3	60	100
	State	SUF100-150NE	Gas	Sealed	100	150	-	241	171	27.75	0.00	27.75	120	1	60	<20
	State	CSB82-36IFE	Electric	-	80	-	36	204	148	25.25	6.00	31.25	208	3	60	100
PlayPlace Water Heaters (in lieu of recirculation system)																

Used	Manufacturer	Model	Utility	Type	Outlet Temp.	Input Heating Btu/hr	Input Heating kW	Delivery Rate DT	Delivery Rate gpm	Dimensions Width	Dimensions Height	Dimensions Depth	Electrical Volts	Electrical Phase	Electrical Hz	Electrical F.L.A.
-	Rinnai	C85i	Gas	Sealed	140°F	180	-	95°F	3	13.8 in.	23.6 in.	10.8 in.	120	1	60	<20
-	Bosch	AE125	Electric	-	140°F	-	20	95°F	2.4	15.5 in.	15.3 in.	4.5 in.	208	1	60	120

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Jason B. Greenberg
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: TP
STD ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION	SITE ADDRESS
8" CMU BEARING WALLS + 4" FACE BRICK	
BAR JOIST ROOF FRAMING	
CULTURED STONE ARCADES	
SITE ID 041-0084	1705 South Roane Street, Harriman, TN 37748

SHEET NO.
041-0084-00-0
P3.2
SCHEDULES & DETAILS

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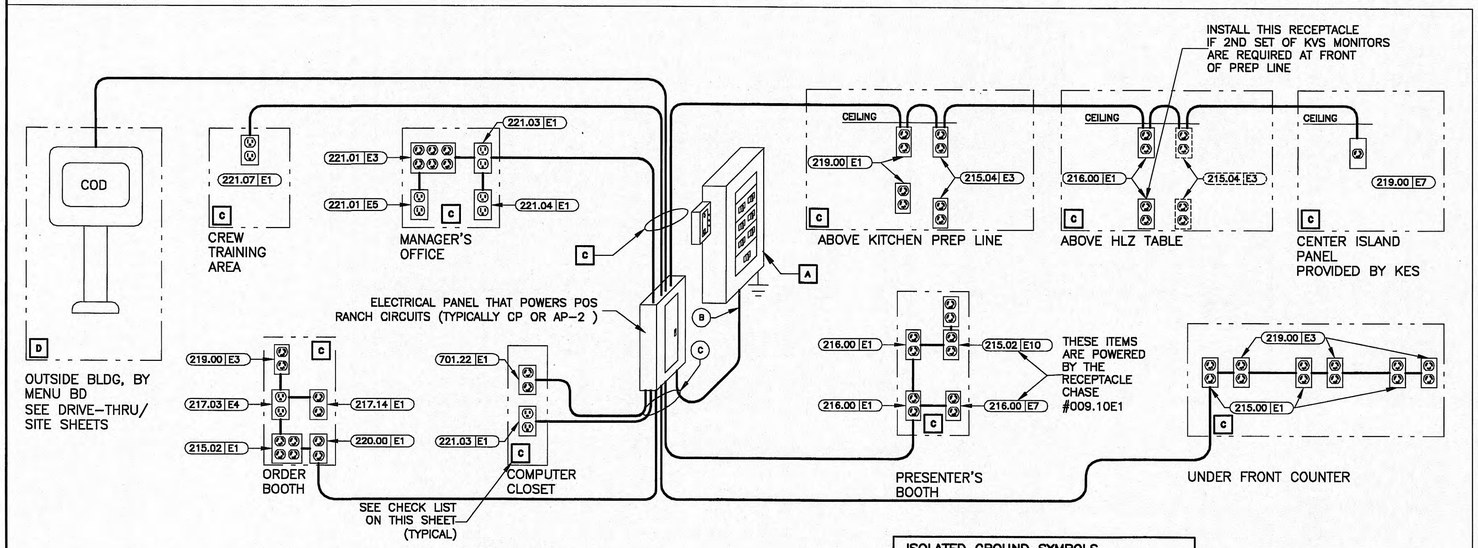
THE PURPOSE OF THIS SHEET IS TO PROVIDE A CHECKLIST AND VISUAL GUIDE SO THE INSTALLING EC CAN VERIFY THE WORK IS IN COMPLIANCE WITH MCDONALD'S SPECIFICATIONS THAT ARE CRITICAL TO THE PROPER FUNCTIONING OF OUR POINT OF SALE (POS) COMPUTER SYSTEMS.



POS ELECTRICAL RISER DIAGRAM

THIS RISER DIAGRAM SHOWS THE ELECTRICAL ROUGH-INS REQUIRED FOR A TYPICAL POINT OF SALE (POS) SYSTEM IN A FREE STANDING 2 BOOTH RESTAURANT. VERIFY ALL POS ROUGH-INS AND MOUNTING HEIGHTS WITH THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION DRAWINGS.

ISOLATED GROUND SYMBOLS	
SYMBOL	DESCRIPTION
	IG4710
	IG4700A
	IG5251
	IG5262

LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION

GENERAL/MATERIALS

1. THE GC OR EC SHALL FURNISH AND INSTALL A COMPLETE LOW VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZING CADDY-ERICO TYPE CAT-32 J-HOOK SUPPORTS (2-INCH DIAMETER LOOP MINIMUM). ALL J-HOOKS SHALL;
   - HAVE A MINIMUM BEARING SURFACE OF 1-⅜",
   - HAVE FLARED EDGES TO PREVENT DAMAGE TO HIGH PERFORMANCE CABLES,
   - HAVE AN ELECTRO-GALVANIZED FINISH,
   - HAVE 3/8" WIDE CABLE RETAINING STRAPS,
   - BE UL LISTED AND LABELED,
   - BEAR THE UL SYMBOL MARKING ON THE PART FOR IDENTIFICATION
   - BE INSTALLED PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
2. THE ENTIRE INSTALLATION SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), NEC SECTION 800, BICSI STANDARDS 568 & 569, ALL APPLICABLE NATIONAL, STATE, LOCAL, AND SAFETY CODES, AND McDONALD'S SPECIFICATIONS.
3. LOW VOLTAGE J-HOOK CABLE SUPPORTS AND APPURTENANCES SHALL BE FASTENED TO THE BUILDING STRUCTURAL AND/OR FRAMING MEMBERS. LOW VOLTAGE J-HOOK CABLE SUPPORTS SHALL NOT BE FASTENED OR UTILIZE THE CEILING GRID SUSPENSION WIRES OR T-BAR GRID FOR INSTALLATION. CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACKETS, HANGERS, RODS, CLAMPS, FLANGES, SUPPORTS, ETC. FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. THE INSTALLATION OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM SHALL BE DONE SO THAT THE ROUTING OF THE CABLES IS PARALLEL TO AND/OR PERPENDICULAR TO FRAMING AND STRUCTURAL BUILDING MEMBERS.
4. LOW VOLTAGE J-HOOK **CABLE SUPPORTS** SHALL BE INSTALLED A MAXIMUM OF 36 INCHES APART. AT TRANSITION LOCATIONS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL J-HOOKS TO ALLOW FOR A MINIMUM ONE-FOOT RADIUS BEND AND FOR ADDITIONAL CABLE SUPPORT AT THESE TRANSITION POINTS.
5. TO AVOID **ELECTROMAGNETIC INTERFERENCE** (EMI), ALL PATHWAYS SHALL PROVIDE A MINIMUM CLEARANCE OF 4 FEET (1.2 METERS) FROM MOTORS AND TRANSFORMERS AND A MINIMUM CLEARANCE OF 1 FOOT (0.3 METERS) FROM CONDUIT AND CABLES UTILIZED FOR ELECTRICAL POWER DISTRIBUTION, OR FROM FLUORESCENT OR HID TYPE LIGHTING FIXTURES AND OTHER NON-POS LOW VOLTAGE CONDUCTORS.
6. ANY **CEILING TILES** IN THE AREA WHERE THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM IS LOCATED SHALL NOT BE INSTALLED UNTIL THE POS VENDOR'S CONTRACTOR COMPLETES THE INSTALLATION OF ALL POS CABLING.
7. ALL NON-POS LOW VOLTAGE CABLING SHALL BE INSTALLED IN A SEPARATE CABLE MANAGEMENT SYSTEM INDEPENDENT OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZED FOR THE POS CABLING.
8. THE POS VENDOR'S INSTALLER SHALL BE RESPONSIBLE TO FURNISH AND INSTALL ALL LOW VOLTAGE CABLING REQUIRED FOR THE COMPLETE AND FULLY FUNCTIONAL OPERATION OF THE POS SYSTEM. ALL POS CABLING SHALL BE INSTALLED WITHIN THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM.

INSTALLATION

1. LOW VOLTAGE J-HOOK CABLE PATHWAY (FOR POS CABLING SYSTEM) SHALL BE PROVIDED FROM THE MANAGERS OFFICE (OR COMPUTER CLOSET) DATA CONDUIT STUB-UP LOCATION TO THE FOLLOWING DATA CONDUIT STUB-UP LOCATIONS (AS APPLICABLE):
   - FRONT COUNTER,
   - PRESENTERS BOOTH,
   - CASHIERS BOOTH,
   - THIRD DRIVE-THRU BOOTH,
   - CREW ROOM,
   - VALENCE WALL,
   - REMOTE ORDERING STATIONS, AND
   - NETPOP TELEPHONE PANEL LOCATION.

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

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

START HERE

A VISUALLY INSPECT THE MAIN ELECTRICAL PANEL (MDP)

yes	no	IN THE MAIN PANEL:
☐	☐	1. IS AN **EQUIPMENT GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **CONNECTED** TO THE PANEL?
☐	☐	2. DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
☐	☐	3. DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
☐	☐	4. DOES THE ISOLATED GROUND CONDUCTOR (GREEN W/YELLOW STRIPE) TERMINATE ON THE EQUIPMENT GROUND BAR?
☐	☐	5. IS THERE AN APPROPRIATE ELECTRICAL CONNECTION (BOND) BETWEEN THE NEUTRAL BAR AND THE EQUIPMENT GROUND BAR?
☐	☐	6. DOES THE GROUNDING SYSTEM COMPLY WITH MCDONALD'S "BUILDING ELECTRICAL GROUNDINS DETAIL"?
☐	☐	7. IS A SURGE PROTECTOR INSTALLED THAT COMPLIES WITH MCDONALD'S "TVSS INSTALLATION GUIDE" OR DETAIL?
☐	☐	8. ARE ALL ELECTRICAL CONNECTIONS (WIRING&BUSING) PROPERLY TIGHTENED?
☐	☐	9. ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?

B VISUALLY INSPECT THE ELECTRICAL PANEL THAT POWERS POS

yes	no	IN THE POS SUBPANEL (CP OR AP-2):
☐	☐	1. IS AN **EQUIPMENT GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **CONNECTED** TO THE PANEL?
☐	☐	2. IS AN **ISOLATED GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **INSULATED** FROM THE PANEL?
☐	☐	3. DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
☐	☐	4. DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
☐	☐	5. DO ALL ISOLATED GROUND CONDUCTORS (GREEN W/YELLOW STRIPE) TERMINATE ONLY TO THE ISOLATED GROUND BAR?
☐	☐	6. ARE ALL ELECTRICAL CONNECTIONS (WIRING&BUSING) PROPERLY TIGHTENED?
☐	☐	7. ARE ALL POS AND COD CIRCUIT BREAKERS ON THE SAME PHASE?
☐	☐	8. ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
☐	☐	9. DO ALL POS & COD CIRCUIT BREAKERS HAVE A LOCKING MECHANISM ON THEIR HANDLES TO PREVENT THEM FROM BEING SHUT OFF BY MISTAKE?
☐	☐	10. DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL ONE EQUIPMENT GROUND AND ONE ISOLATED GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED (SEE POS&COD ISO GND/DED CKT DETAIL)?

VISUALLY INSPECT THE REMAINING ELECTRICAL SUBPANELS

yes	no	IN THE REMAINING SUBPANELS:
☐	☐	1. IS AN **EQUIPMENT GROUND BAR** INSTALLED SUCH THAT IT IS ELECTRICALLY **CONNECTED** TO THE PANEL?
☐	☐	2. DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
☐	☐	3. DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
☐	☐	4. ARE ALL ELECTRICAL CONNECTIONS (WIRING&BUSING) PROPERLY TIGHTENED?
☐	☐	5. ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
☐	☐	6. DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL AND ONE EQUIPMENT GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED? (SEE BUILDING ELECTRICAL GROUNDING DETAIL)

C VISUALLY INSPECT THE POS BRANCH CIRCUITS

yes	no	IN THE POS BRANCH CIRCUITS:
☐	☐	1. ARE THE POS BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
☐	☐	2. IF THE POS BRANCH CIRCUIT IS ROUTED ABOVE GRADE, IS IT IN A METALLIC CONDUIT?
☐	☐	3. DOES EACH POS BRANCH CIRCUIT CONTAIN: ONE PHASE (BLACK COLORED INSULTATION) ONE NEUTRAL (WHITE COLORED INSULTATION) ONE EQUIPMENT GROUND (GREEN COLORED INSULTATION) ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULTATION).
☐	☐	4. DO ALL POS BRANCH CIRCUITS TERMINATE AT EITHER AN IG4700, IG4710, IG5262 RECEPTACLES OR ANY COMBINATION OF THESE?
☐	☐	5. ARE ALL ELECTRICAL TERMINATIONS TO IG RECEPTACLES MADE WITH SOLID #12 AWG WIRE CAPTURED AROUND THE SCREW BARREL AND SUITABLY TIGHTENED?
☐	☐	6. ARE ALL BRANCH CIRCUIT CONNECTIONS PROPERLY TIGHTENED?
☐	☐	7. ARE THE CORRECT AMOUNT AND TYPE OF IG RECEPTACLES PROVIDED AS SHOWN IN THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION?
☐	☐	8. DO ALL POS RECEPTACLES HAVE ORANGE "COMPUTER ONLY" COVERPLATES?
☐	☐	9. DO ALL POS BRANCH CIRCUITS COMPLY WITH THE "POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL?

D VISUALLY INSPECT THE POS BRANCH CIRCUIT FOR THE COD

yes	no	IN THE COD BRANCH CIRCUIT:
☐	☐	1. ARE THE COD BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
☐	☐	2. DOES EACH COD BRANCH CIRCUIT CONTAIN; – ONE PHASE (BLACK COLORED INSULTATION), – ONE NEUTRAL (WHITE COLORED INSULTATION), – ONE EQUIPMENT GROUND (GREEN COLORED INSULTATION), – ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULTATION).
☐	☐	3. IS THE COD POWERED FROM THE SAME PHASE AS THE POS?
☐	☐	4. DOES THE BREAKER FOR THE COD HAVE A LOCKING MECHANISM ON ITS HANDLE THAT WILL PREVENT IT FROM BEING SHUT OFF?
☐	☐	5. DO THE COD BRANCH CIRCUIT(S) COMPLY WITH THE "POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL?
☐	☐	6. IF THE COD HAS AN OPTICAL ISOLATOR, IS A STRAIGHT BLADE ISOLATED GROUND RECEPTACLE ON AN ISOLATE GROUND/DEDICATED CIRCUIT PROVIDED FOR IT?

ARE **ALL** BOXES CHECKED "YES"?

NO → REWORK ELECTRICAL SYSTEM TO BRING INTO COMPLIANCE WITH MCDONALD'S SPECIFICATIONS

YES → FINISHED

EC, YOUR WORK IS NOT CONSIDERED AS MEETING MCDONALD'S SPECIFICATIONS UNTIL THE INSTALLED ELECTRICAL SYSTEM SUPPORTS A "YES" ANSWER FOR ALL QUESTIONS ASKED.

AS PART OF THIS PROCESS, THE EC AND THE GC WILL BE REQUIRED TO SIGN AN ELECTRICAL CERTIFICATION DOCUMENT INDICATING THAT THE INSTALLED ELECTRICAL SYSTEM MEETS MCDONALD'S SPECIFICATIONS.

DO NOT SIGN THE ELECTRICAL CERTIFICATE UNTIL THE INSTALLED ELECTRICAL SYSTEM SUPPORTS A "YES" ANSWER FOR ALL QUESTIONS ASKED.

NOTICE:

ANY CHANGES MADE TO THE POS ELECTRICAL SYSTEM AFTER THE CERTIFICATION PROCESS HAS BEEN COMPLETED SHALL REQUIRE SYSTEM RE-CERTIFICATION.

CHANGES **SHALL NOT** BE MADE TO THE POS ELECTRICAL SYSTEM **AFTER** THE POS EQUIPMENT HAS BEEN INSTALLED WITHOUT FIRST NOTIFYING THE POS VENDOR.

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael R. Silkas
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

1/23/09

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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	STD. ISSUE DATE
CAA	JAN 2008
REVIEWED BY	DATE ISSUED
MR/TW	1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION	SITE ADDRESS
8" CMU BEARING WALLS + 4" FACE BRICK	1705 South Roane Street,
BAR JOIST ROOF FRAMING	Harriman, TN 37748
CULTURED STONE ACCENTS	
SITE ID 041-0084	

SHEET NO. 041-0084-00-0
E1.0
POS RISER DIAGRAM

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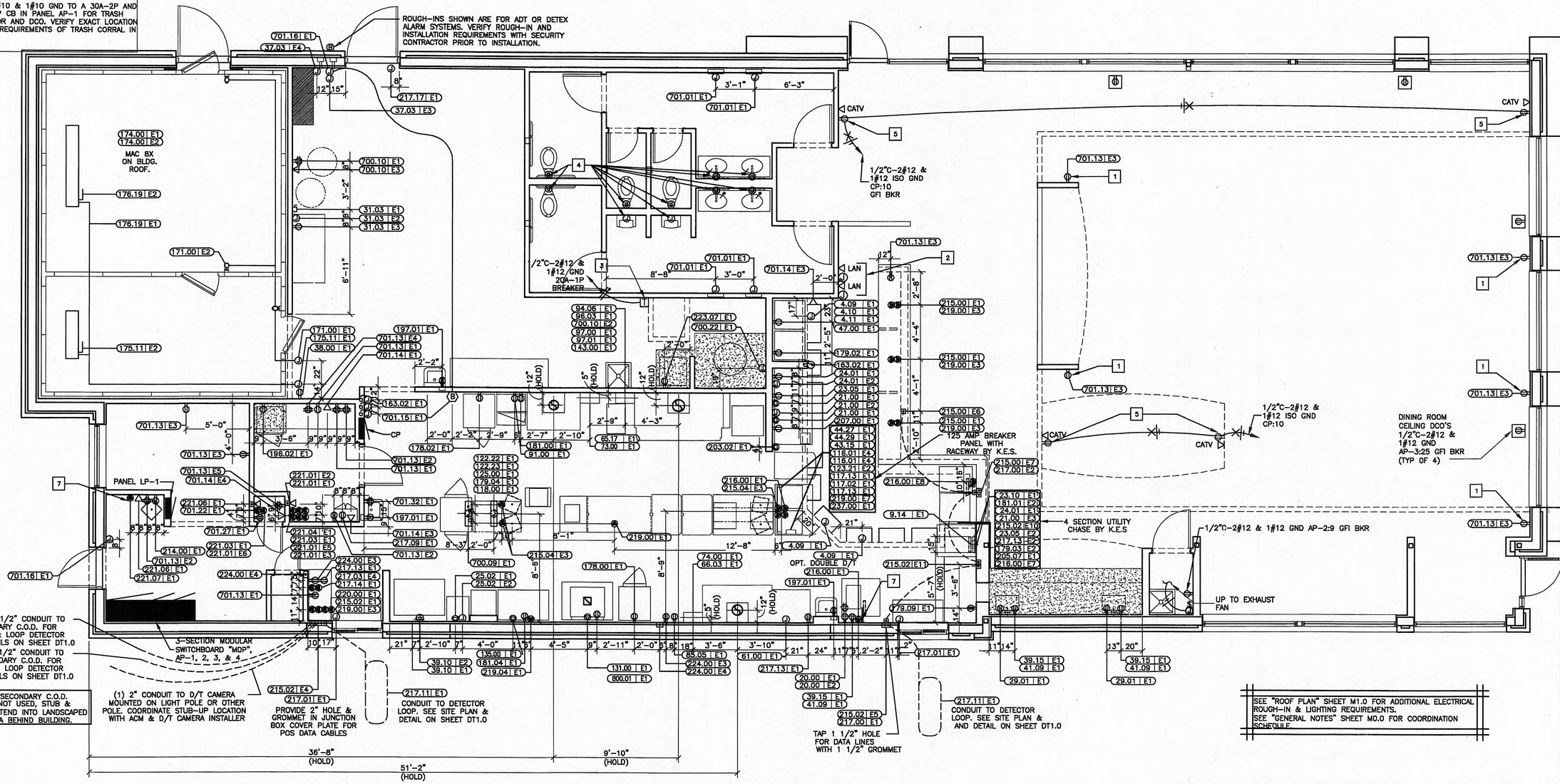
TRASH CORRAL POWER:
3/4"C–3#10 & 1#10 GND TO A 30A–2P AND A 20A–1P CB IN PANEL AP–1 FOR TRASH COMPACTOR AND DCO. VERIFY EXACT LOCATION AND ALL REQUIREMENTS OF TRASH CORRAL IN FIELD.

ROUGH–INS SHOWN ARE FOR ADT OR DETEX ALARM SYSTEMS. VERIFY ROUGH–IN AND INSTALLATION REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.



1 E1.1 ELECTRICAL ROUGH–IN PLAN
1/4" = 1'–0"

SYMBOLS AND ABBREVIATIONS

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

ADT ROUGH–IN NOTES

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

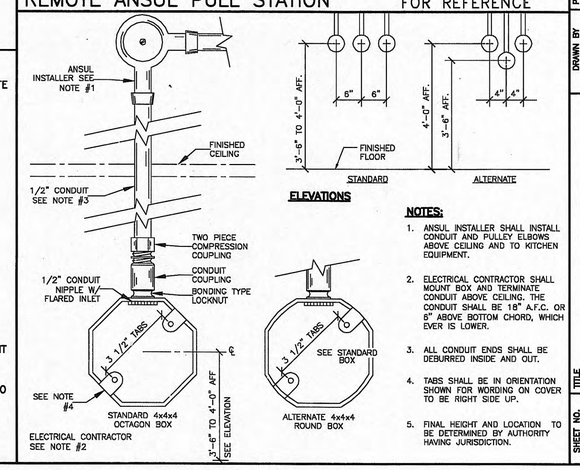
KEY NOTES

1. TAMPER RESISTANT GFCI DUPLEX RECEPTACLE MOUNTED AT 18" AFF. IN PUBLIC AREAS. EC SHALL PROVIDE PASS & SEYMOUR "SAFELOCK" 2095–TR–* (**: I=IVORY, W=WHITE, GRY=GRAY, BK=BLACK, RED=RED, LA=LIGHT ALMOND). SPECIFIED RECEPTACLE BECOMES DE–ENERGIZED UPON FAILURE OF GFCI DEVICE. NO SUBSTITUTIONS.(TYPICAL)
2. EC SHALL PROVIDE CONDUIT FOR POWER & LAN CONECTIONS AT FUTURE SELF ORDER KIOSK LOCATIONS. EXTEND CONDUITS TO JUNCTION BOXES LOCATED IN CEILING AREA ABOVE CALLED OUT LOCATIONS AND CAP & LABEL FOR FUTURE USE.
3. OPTIONAL TRANSFORMERS FOR AUTOMATIC FLUSH VALVE AND HAND SINKS SENSORS. EC TO VERIFY ALL COMPONENTS NECESSARY FOR A COMPLETE SYSTEM, AND INCLUDE ALL COSTS IN BASE BID. (OWNER/OPERATOR REQUEST) SEE NOTES P1, P2, & P3 ON SHEET E3.1
4. OPTIONAL ROUGH–INS FOR AUTOMATIC FLUSH VALVE AND HAND SINKS SENSORS. EC SHALL LOCATE 4x4x2 1/2"JB,AND ORIENT REQUIRED PLASTER RING IN ACCORDANCE WITH MANUFACTURES INSTALLATION INSTRUCTIONS. PROVIDE 1/2" C–2#18 TO TRANSFORMER FOR REMOTE SENSOR POWER. WIRE REMOTE SENSORS TO SOLENOID VALVES PER MANUFACTURERS INSTRUCTIONS. (OWNER/OPERATOR REQUEST)
5. SEE NOTE TV1 ON SHEET E3.1.
6. NOT USED.
7. SEE POS ELECTRICAL RISER DIAGRAM ON SHEET E1.0. (TYPICAL)
8. NOT USED.
9. NOT USED.
10. EC SHALL PROVIDE RECEPTACLES NEAR MOTHERS AREA TABLES. COORDINATE EXACT LOCATION WITH FINAL DECOR PLAN AND LOCAL LOCAL McDONALD'S AREA CONSTRUCTION MANAGER (ACM).

GENERAL NOTES

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

REMOTE ANSUL PULL STATION FOR REFERENCE



ELEVATIONS

NOTES:

1. ANSUL INSTALLER SHALL INSTALL CONDUIT AND PULLEY ELBOWS ABOVE CEILING AND TO KITCHEN EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL MOUNT BOX AND TERMINATE CONDUIT ABOVE CEILING. THE CONDUIT SHALL BE 18" A.F.C. OR 6" ABOVE BOTTOM CHORD, WHICH EVER IS LOWER.
3. ALL CONDUIT ENDS SHALL BE DEBURRED INSIDE AND OUT.
4. TABS SHALL BE IN ORIENTATION SHOWN FOR WORDING ON COVER TO BE RIGHT SIDE UP.
5. FINAL HEIGHT AND LOCATION TO BE DETERMINED BY AUTHORITY HAVING JURISDICTION.

REV	DATE	DESCRIPTION	BY
-	-	-	-

PREPARED BY:
Michael R. Silkas
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1/23/09

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY: MJN/CAA
STD. ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG
DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES
SITE ID 041–0084
1705 South Roane Street, Harriman, TN 37748

SHEET NO.
041–0084–00–0
E1.1
ROUGH–IN PLAN

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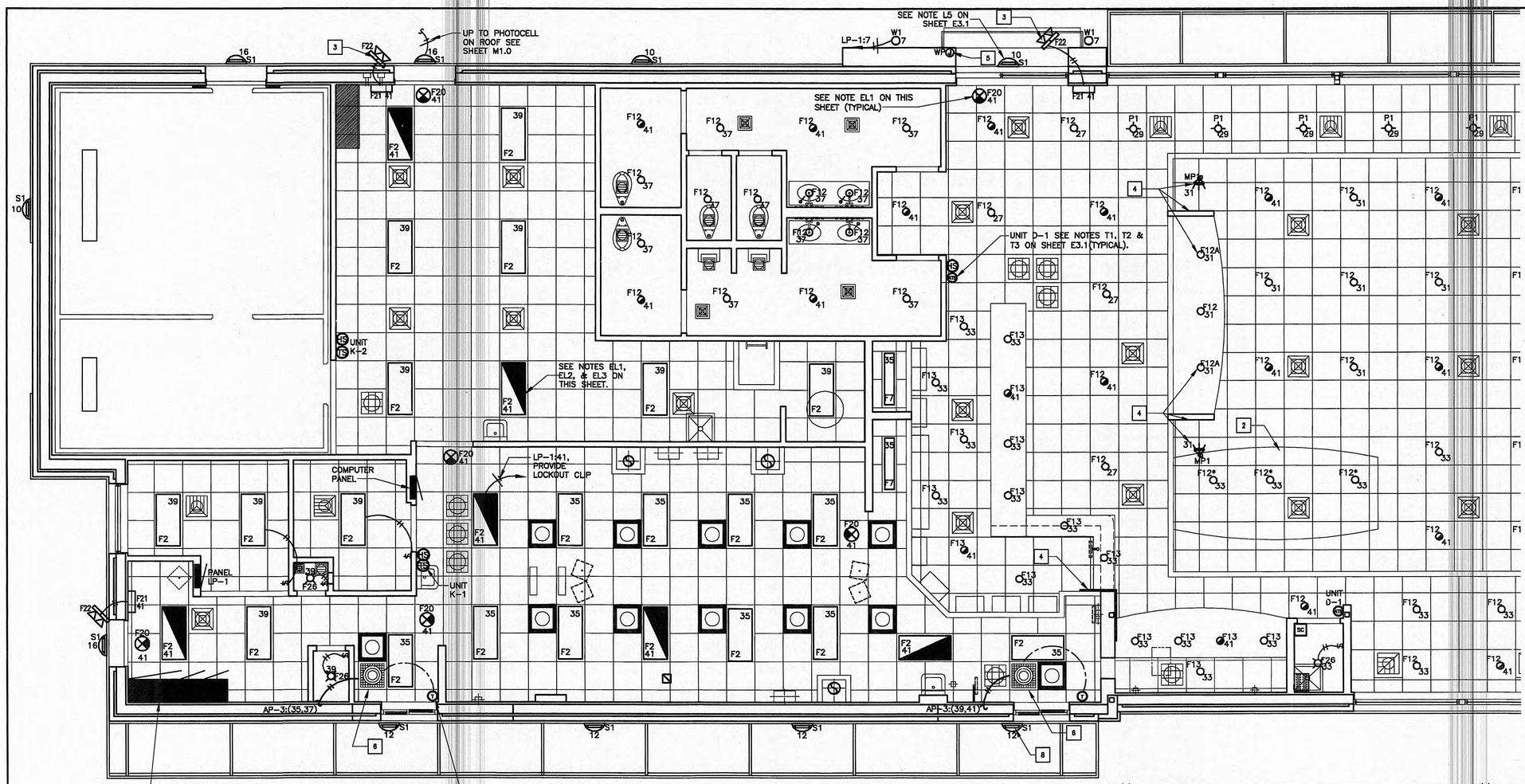

1 E2.0 LIGHTING FLOOR PLAN
1/4"=1'-0"

SEE SHEET E3.1 FOR GENERAL LIGHTING NOTES AND "ROOF PLAN" (SHEET M1.0) FOR ADDITIONAL ELECTRICAL ROUGH-IN & LIGHTING REQUIREMENTS.

KEY NOTES

1. CENTER PENDANT LIGHTS OVER TABLES (TYPICAL). REPLACE WITH F12 FIXTURES IF PLASMA TVS ARE INSTALLED.
2. SOFFIT, LIGHTING, & SUPPLY GRILL TO BE COORDINATED WITH DECOR COMPANY. COORDINATE LOCATION OF ALL LIGHT FIXTURES IN DINING AREA WITH FINAL SEATING AND DECOR PLANS.
3. EC TO INSTALL AND CONFIGURE REMOTE EMERGENCY LIGHTING AT ALL EGRESS EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGRESS. ADDITIONAL EMERGENCY LIGHTING MAY BE REQUIRED AFTER THE FIELD INSPECTION. INSTALL WP J-BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EMERGENCY EGRESS LIGHTING (TYPICAL).
4. OPTIONAL ADJUSTABLE MONO-POINT (MP1) LIGHT FIXTURE OR WALL WASH FIXTURE TO ILLUMINATE LOGO OR GRAPHICS. VERIFY LOCATION SO AS TO ADEQUATELY ILLUMINATE McDONALD'S ARCH LOGO SIGN AND GRAPHICS.
5. AWNING LIGHT. LP-1:11 VERIFY EXACT SPECIFICATIONS AND LOCATION WITH AWNING MANUFACTURER. VERIFY EXACT INFEED REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E3.1. (TYPICAL)
6. CEILING HEATER/DUCT HEATER. SEE TABLE ON DRAWING E4.0 FOR CONDUIT AND WIRE SIZE (TYPICAL)
7. ARCADE UP LIGHTING, CENTER FIXTURES ON ARCADE WALL FACE. SEE SHEET E3.1 FOR INSTALLATION DETAILS (TYPICAL).
8. RADIAL WALL SCONCE. SEE NOTE L2 ON SHEET E3.1 AND ARCHITECTURAL ELEVATIONS ON SHEETS A2.0 & A2.1.

EMERGENCY LIGHTING NOTES

EL1. EC SHALL CONNECT ALL EXIT SIGNS, EMERGENCY LIGHTS AND NIGHT LIGHTS TO ONE CIRCUIT BREAKER. INSTALL A LOCK ON CIRCUIT BREAKER HANDLE. EC SHALL VERIFY ALL REQUIREMENTS AND LOCATIONS WITH LOCAL AUTHORITIES. INCLUDE ALL COSTS IN BASE BID.

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

EL3. ALL FIXTURES DENOTED AS NIGHT LIGHTING FIXTURES SHALL BE PROVIDED WITH A BATTERY INVERTER EMERGENCY TYPE BALLAST. EMERGENCY BALLAST SHALL BE A TWO LAMP TYPE OF 600-700 INITIAL LUMEN RATED (MINIMUM) TO ILLUMINATE THE TWO OUTER LAMPS OF A FIXTURE IN THE EVENT OF A POWER FAILURE. BALLAST BATTERY SHALL MAINTAIN 87.5% OF THE NOMINAL BATTERY VOLTAGE AFTER 1.5 HOURS TO COMPLY WITH 2005 NEC SECTION 700.12(F) AND UL924. BALLAST SHALL BE AS MANUFACTURED BY BODINE, (MODEL B60 FOR T8 APPLIATIONS) SECURITY LIGHTING (MODEL UF0120 FOR COMPACT FLUOIDCENT APPLICATIONS) OR AN APPROVED EQUAL TO MEET THE SPECIFICATIONS LISTED ABOVE.

EL4. EMERGENCY BATTERY LIGHTING WALL PACKS IN REST ROOMS AND 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)

McDONALD'S ROAD SIGN:

(1) 30 AMP 120/208 VOLT, 1 PHASE CIRCUIT #8 WIRE FROM LP-1 TO ALL SIGNS EXCEPT EXPANDED CABINET. FOR 80-200 EXPANDED CABINET,
(1) 60 AMP 120/208 VOLT 1 PHASE CIRCUIT #6 WIRE. (INCREASE WIRE SIZE AND CONDUIT SIZE AS RECOMMENDED BY SIGN MANUFACTURER TO SATISFY NOTE W2 ON SHEET E3.1).
(1) 20 AMP 208 VOLT CIRCUIT. EC TO WIRE 2#12 TO 208 VOLT FLAG FLOODLIGHTS.
(1) 20 AMP 120 VOLT CIRCUIT TO D.C.O. IN ROAD SIGN BASE IF REQUIRED.

KEY
DENOTES FIXTURE TYPE — F2 / #1 — DENOTES CIRCUIT NUMBER
LIGHTING FIXTURES SHOWN HALF SHADED SHALL BE WIRED TO THE NIGHT LIGHTING CIRCUIT AND PROVIDED WITH A BATTERY TYPE EMERGENCY BALLAST. SEE NOTE EL3 ON THIS SHEET.

LIGHTING FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS WATTS	LAMPS TYPE	BALLAST	MOUNTING	LOCATION	MANUFACTURER AND CATALOG NUMBER
F1		2' X 4' GRID FLUORESCENT	PRISMATIC ACRYLIC	4-32	F32T8/3500K LOW MERCURY	ELECTRONIC	RECESSED	KITCHEN & DINING	SECURITY LIGHTING: R244BLW120 WITH WHIP AND LAMPS
F2		2' X 4' GRID FLUORESCENT	PRISMATIC ACRYLIC	3-32	F32T8/3500K LOW MERCURY	ELECTRONIC	RECESSED	SUPPORT & DINING	SECURITY LIGHTING: R243BLW120 WITH WHIP AND LAMPS
F7		1' X 4' GRID FLUORESCENT	PRISMATIC ACRYLIC	2-32	F32T8/3500K LOW MERCURY	ELECTRONIC	RECESSED	SUPPORT & DINING	SECURITY LIGHTING # R142BLW120 WITH WHIP AND LAMPS
F12		COMPACT FLUORESCENT DOWN LIGHT	8" SPECULAR CLEAR REFLECTOR	2-26W	PLT26W/3500K QUAD TUBE LOW MERCURY	ELECTRONIC	RECESSED	DINING	SECURITY LIGHTING # D4226E120/4498W
F12A		COMPACT FLUORESCENT WALL WASH LIGHT	8" SPECULAR CLEAR REFLECTOR	2-26W	PLT26W/3500K QUAD TUBE LOW MERCURY	ELECTRONIC	RECESSED	DINING	SECURITY LIGHTING # W8226E120/4480W
F13		COMPACT FLUORESCENT DOWN LIGHT WITH LENS	8" SPECULAR W/ LENS, SEE CATALOG #	2-26W	PLT26W/3500K QUAD TUBE LOW MERCURY	ELECTRONIC	RECESSED	DINING	SECURITY LIGHTING # D4225E120/4470W WITH ACRYLIC LENS (FRONT COUNTER ONLY)
F20		EXIT SIGN WITH BATTERY BACKUP	–	1.8	LED	–	SURFACE		SECURITY LIGHTING: PRB. SEE NOTE LS2 ON THIS SHEET.
F21		2 HEADED EMERGENCY BATTERY LIGHT	POLY-CARBONATE	2-5	T-5 TUNGSTEN	–	SURFACE TO WALL OR CEILING	REST ROOM & PLAY PLACE	SECURITY LTG. #PE6
F22		2 HEADED EMERG LIGHT & 1 REMOTE HEAD IF REQ'D	SEALED GLASS	3-5	T-5 TUNSTEN & NEMA 3R	–	SURFACE TO WALL OR SOFFIT	OUTDOOR NEAR ENTRANCE	SECURITY LIGHTING #PE6-25-2R6I- A6H6A/ MPWP1 WHEN CONNECTED TO A REMOTE HEAD (FOR SINGLE GANG JUNCTION BOX)
F26		PORCELAIN INCANDESCENT SOCKET	GLASS & WIRE GUARD	UP TO 1-60W	A19	–	SURFACE	CLOSETS	SECURITY LIGHTING ZVC-100TW
P1		PENDANT FIXTURE	–	UP TO 1-60W	A19	–	SURFACE	DINING	EXACT FIXTURE TYPE TO BE COORDINATED WITH DECOR FIRM & ACM
MP1		ARCHITECTURAL SERIES GIMBAL RING	–	75W	PAR 30 FLOOD LAMP	–	MONOPOINT MOUNTING	DINING	FIXTURE TYPE TO BE COORDINATED WITH DECOR FIRM & ACM: HTA130WH/AK-T-MP (MONOPOINT)
S1		"DOWN ONLY" RADIAL WALL SCONCE	TEMPERED GLASS	1-100W	METAL HALIDE	MAGNETIC	RECESSED	2006 STND BUILD CANOPY	SECURITY LIGHTING: RWSC-100MH-WD-PS-120 ORDER THESE NEW FIXTURES EARLY BECAUSE OF LONGER LEAD TIMES. (EXTERIOR EGRESS LIGHTING FIXTURES S1* = PROVIDE QUARTZ RESTRIKE, QSS)
S2		SOFFIT RECESSED DOWN LIGHT	TEMPERED GLASS	1-100W	METAL HALIDE	MAGNETIC	RECESSED	2006 STND BUILD CANOPY	SECURITY LIGHTING: 8614-100MH-DL-FP-OW-WH-120. ORDER THESE NEW FIXTURES EARLY BECAUSE OF LONGER LEAD TIMES. VERIFY FINISH AND APPLICATION MATERIAL WITH ACM.
W1		WELL LIGHT ARCADE UP LIGHTING "COOL TOUCH"	TEMPERED GLASS	1-70W	METAL HALIDE	MAGNETIC	RECESSED IN GROUND	EXTERIOR LANDSCAPE	SECURITY LIGHTING:SLS-CTWL-NF-70MH-MT- SR/LT10-MOD(REMOTE BALLAST) COOL TOUCH NO SUBSTITUTES

ROOF LIGHTING FIXTURE SCHEDULE:

R1		4' SIGNATURE RF ELMNT ACCENT LIGHTING	TEMPERED GLASS	1-40W PER FIXTURE	F40T12/3500K LOW MERCURY	MAGNETIC	SURFACE SEE SHEET M1.0	EXTERIOR ACCENT CHANNEL	SECURITY LIGHTING: HI-RAF-FLHO-48-120-**(SPECIFY COLOR) CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS. ORDER THESE NEW FIXTURES EARLY BECAUSE OF LONGER LEAD TIMES. SATIN ALUMINUM.
R2		3' SIGNATURE RF ELMNT ACCENT LIGHTING	TEMPERED GLASS	1-32W PER FIXTURE	F40T12/3500K LOW MERCURY	MAGNETIC	SURFACE SEE SHEET M1.0	EXTERIOR ACCENT CHANNEL	SECURITY LIGHTING: HI-RAF-FLHO-36-120-**(SPECIFY COLOR) CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS. ORDER THESE NEW FIXTURES EARLY BECAUSE OF LONGER LEAD TIMES. SATIN ALUMINUM.
R3		SIGNATURE RF ELMNT ACCENT LIGHTING	TEMPERED GLASS	1-100W	METAL HALIDE	MAGNETIC	SURFACE SEE SHEET M1.0	EXTERIOR ACCENT CHANNEL	SECURITY LIGHTING: SLS-KN-CFL-** (CHOOSE COLOR) MOUNT TO EC FURNISHED WP BOX WITH COVER CONTAINING 1/2" THREADED HUB. ORDER THESE NEW FIXTURES EARLY BECAUSE OF LONGER LEAD TIMES.

LIGHTING SCHEDULE NOTES:

LS1. FLUORESCENT LIGHT FIXTURE PERFORMANCE SPECIFICATION: EC SHALL SELECT LIGHT FIXTURES FROM SECURITY LIGHTING THAT MEET OR EXCEED THE FOLLOWING REQUIREMENTS:
A. SHEET METAL SHALL BE MINIMUM 22 GAGE STEEL. WHITE ENAMEL PAINTED.
B. PLASTIC LENSES SHALL BE PRISMATIC ACRYLIC. A12 PATTERN, UNLESS NOTED OTHERWISE.
C. LAY-IN FIXTURES SHALL HAVE HINGED, GASKETED DROP DOWN DOOR FRAMES.
D. PROVIDE FLANGE KITS FOR ALL INSTALLATION IN GYPSUM BOARD CEILING. VERIFY IN THE FIELD.

LS2. ORDER LED EXIT SIGNS WITH LETTER COLORS THAT COMPLY WITH LOCAL CODES FROM SECURITY LIGHTING.
– FOR RED LETTERS USE #PRB (UNIVERSAL),
– FOR GREEN LETTERS USE #PGB (UNIVERSAL), OR
IF THE ABOVE EXIT SIGNS DO NOT COMPLY WITH LOCAL CODES USE: LED SIGN WITH BATTERY BACKUP, LETTER SIZE, COLOR, TYPE & DIRECTIONAL ARROWS AS REQUIRED BY THE LOCAL AUTHORITIES.

LS3. ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

LS4. LIGHTING FIXTURES AND LAMPS HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVEL OF ILLUMINATION. LAMP AND BALLAST SPECIFICATIONS SHALL BE STRICTLY FOLLOWED. ANY DEVIATION FROM LAMP SPECIFICATIONS SHALL BE APPROVED IN WRITING BY McDONALD'S CORPORATION.

ORDER INDOOR, OUTDOOR, EMERGENCY AND PLAY PLACE LIGHT FIXTURES FROM:

MR. STEVE FRIEDMAN
SECURITY LIGHTING SYSTEMS, INC. (A HUBBELL LIGHTING COMPANY)
1085 JOHNSON DRIVE
BUFFALO GROVE, IL 60089
1-800-544-4848 FAX 847-279-0642

REV	DATE	DESCRIPTION	BY
–	–	–	–

PREPARED BY:
Michael R. Silkas
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR: McDonald's USA, LLC

DRAWN BY: CAA
STD. ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES
SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

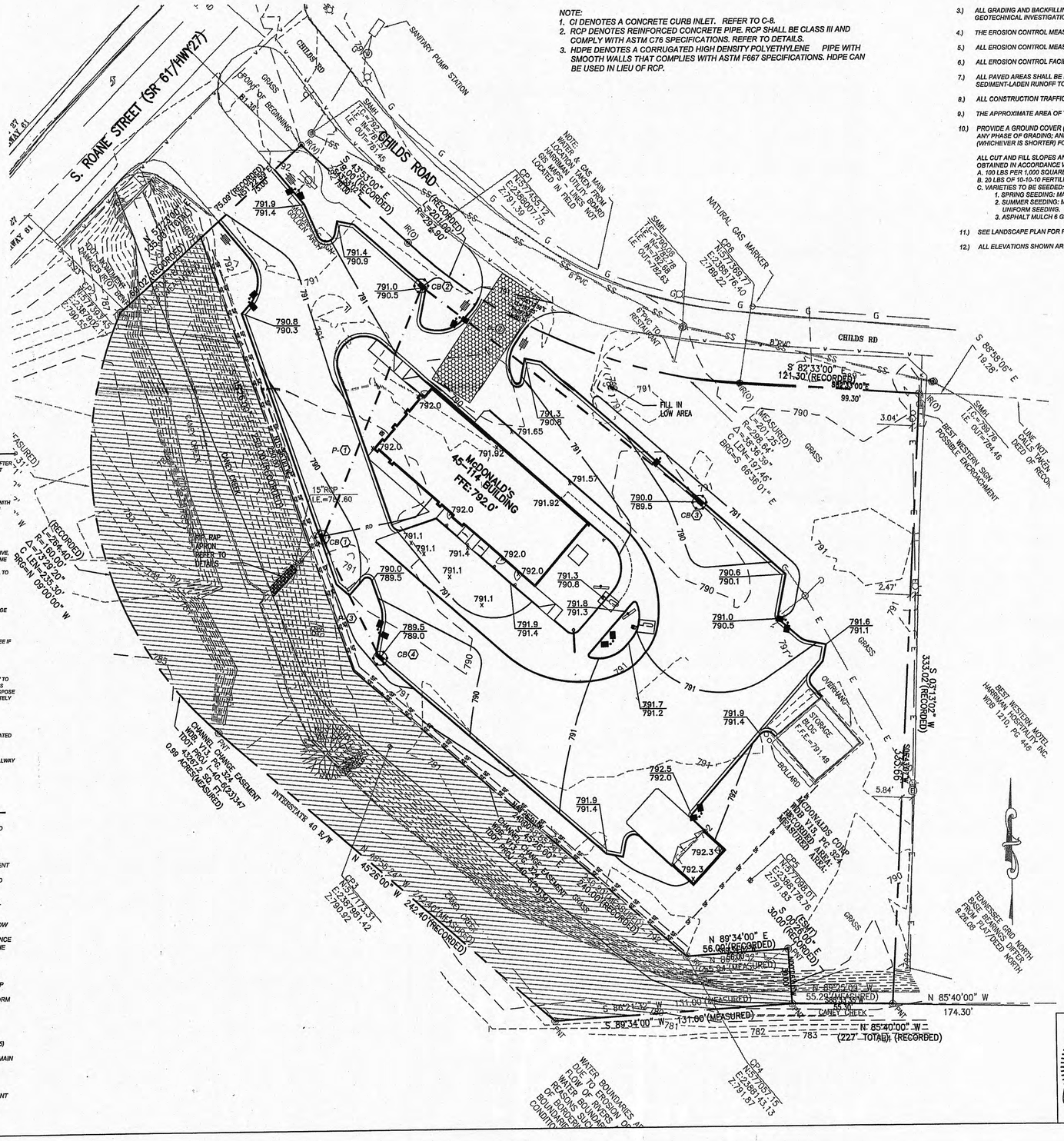
SHEET NO.: 041-0084-00-0
E2.0
LIGHTING PLAN

K:\DW\EAST\ - RAL\041-0084-00-0 HARRIMAN\45114MS_E2-0_E2-1.DWG 01-22-2009 15:28

PROPOSED STORM DRAINAGE TABLE			
LABEL	TYPE	T/C	INVERT
CB①	CI	789.0	782.7
CB②	CI	790.5	784.0
CB③	CI	789.5	785.5
CB④	CI	789.0	785.0

PROPOSED STORM PIPE TABLE				
LABEL	TYPE	SLOPE	SIZE	LENGTH
P-①	RCP/HDPE	0.9%	15"Ø	149'
P-②	RCP/HDPE	0.6%	15"Ø	193'
P-③	RCP/HDPE	3.2%	15"Ø	72'

NOTE:
1. CI DENOTES A CONCRETE CURB INLET. REFER TO C-8.
2. RCP DENOTES REINFORCED CONCRETE PIPE. RCP SHALL BE CLASS III AND COMPLY WITH ASTM C76 SPECIFICATIONS. REFER TO DETAILS.
3. HDPE DENOTES A CORRUGATED HIGH DENSITY POLYETHYLENE PIPE WITH SMOOTH WALLS THAT COMPLIES WITH ASTM F667 SPECIFICATIONS. HDPE CAN BE USED IN LIEU OF RCP.



GRADING/EROSION CONTROL NOTES:

1.) THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. THE CONTRACTOR(S) SHALL CONTACT TENNESSEE ONE AT 1-800-922-0963 FOR ASSISTANCE IN LOCATING EXISTING UTILITIES. CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.

2.) SUBJECT PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY HUD F.I.R.M. COMMUNITY PANEL NUMBER 47145C0087F PAGE 87 OF 335, WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2008.

3.) ALL GRADING AND BACKFILLING, EXCAVATING, ETC., SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORTS. REFER TO THESE REPORTS FOR ADDITIONAL INFORMATION NOT TRANSFERRED TO THESE PLANS.

4.) THE EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO ANY EARTHWORK.

5.) ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.

6.) ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED AND REPAIRED AT A MINIMUM OF WEEKLY BASIS AND AFTER EVERY RAIN EVENT.

7.) ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.

8.) ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE CONSTRUCTION ENTRANCES.

9.) THE APPROXIMATE AREA OF THE LIMITS OF CLEARING, GRADING AND CONSTRUCTION IS 2.3 ACRES.

10.) PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING AND A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

ALL CUT AND FILL SLOPES AND CHANNEL SIDESLOPES WHICH ARE NOT TO BE PAVED, SHALL BE SEEDED UNTIL A GOOD STAND OF GRASS IS OBTAINED IN ACCORDANCE WITH:
A. 100 LBS PER 1,000 SQUARE FOOT GROUND LIMESTONE OR EQUIVALENT. NO SOIL TEST REQUIRED FOR INITIAL ESTABLISHMENT.
B. 20 LBS OF 10-10-10 FERTILIZER OR EQUIVALENT PEER 1,000 SQUARE FOOT.
C. VARIETIES TO BE SEEDED:
1. SPRING SEEDING: MARCH 1 - APRIL 30; SPRING OATS 2.5 LBS PER 1,000 SQUARE FOOT.
2. SUMMER SEEDING: MAY 1 - AUGUST 1; WEEPING LOVE GRASS AT 2 OZ. PER SQUARE FOOT MIXED WITH 1 BUSHEL OF SAWDUST FOR UNIFORM SEEDING.
3. ASPHALT MULCH 6 GALLONS PER 1,000 SQUARE FOOT. ALL SEEDING WILL BEE MULCHED.

11.) SEE LANDSCAPE PLAN FOR PERMANENT SEEDING OR SOD SPECIFICATIONS.

12.) ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUNDBREAK.

MAINTENANCE NOTES:

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED AND MAINTAINED DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. ANY SEDIMENT THAT HAS BEEN TRANSPORTED BEYOND THE PROJECT LIMITS SHALL BE REMOVED. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

CONSTRUCTION ENTRANCE:

INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.

SILT FENCE:

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE GRAVEL OUTLET:

INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.

OUTLET STABILIZATION STRUCTURE:

INSPECT RIP RAP STRUCTURES WEEKLY AND AFTER SIGNIFICANT (0.5 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

BLOCK AND GRAVEL INLET PROTECTION:

INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

SEDIMENT TRAP:

INSPECT TEMPORARY SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER RAINFALL EVENTS 0.5 INCHES OR MORE. REMOVE SEDIMENT AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA, AND REPLACE THE PART OF THE GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.

CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FEET BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIP RAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.

CONSTRUCTION SEQUENCE:

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EROSION IS MINIMIZED AND THAT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES IS MAINTAINED THROUGHOUT EXECUTION OF THIS PROJECT.

1.) OBTAIN A LAND DISTURBING PERMIT. SCHEDULE A PRE-CONSTRUCTION MEETING.

2.) INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT TRAPS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION. SEE DETAIL ON SEEDING SCHEDULE. CONTRACTOR SHALL BEGIN WITH SEDIMENT FENCING AND ALL OTHER SEDIMENT CONTAINMENT DEVICES FOLLOWED BY ALL DIVERSION AND BY-PASS DITCHES/BERMS.

3.) BEGIN CLEARING/GRUBBING AND GENERAL EXCAVATION ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PHASE/STAGE EROSION CONTROL TO ALLOW FOR CONSTRUCTION.
NOTE: CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION DEVICES AT LEAST ONCE A WEEK AND AFTER EVERY RAINFALL. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES/SEDIMENT TRAPS UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED.

4.) BEGIN INSTALLING UPSTREAM STORM DRAINAGE SYSTEM. INSTALL APPROVED INLET PROTECTION. TERMINATE STORM DRAINAGE SYSTEM AT TEMPORARY SEDIMENT TRAP DEVICES UNTIL SUCH DEVICES HAVE BEEN APPROVED FOR REMOVAL. ADDITIONAL MEASURES MAY BE REQUIRED BY THE INSPECTOR DUE TO THE ROUTING OF THE STORM DRAINAGE SYSTEM AND ACTUAL FIELD CONDITIONS;
NOTE: SEDIMENT BASINS SHALL BE FUNCTIONAL THROUGHOUT GRADING AND EXCAVATING.

5.) STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION. PAVING, DITCH LININGS, ETC., SEED AND MULCH DENUDED AREAS WITHIN FIFTEEN (15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION;
NOTE: THE CONTRACTOR SHALL ENSURE THAT THE EROSION CONTROL DEVICES REMAIN UNDISTURBED DURING CONSTRUCTION OF THE BUILDING PADS AND ASSOCIATED PARKING/DRIVE AREAS ADJACENT TO THESE DEVICES UNTIL THE CONTRIBUTING UPSTREAM AREAS HAVE BEEN STABILIZED AND APPROVED.

6.) WHEN SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCING, SEDIMENT BASINS, ETC.,, AND SEED OUT OR PAVE ANY RESULTING BARE AREAS.

LEGEND

- DROP INLET
- CURB INLET
- STORM PIPE
- XXX.XX TOP OF CURB / XXX.XX BOTTOM OF CURB
- CURB & GUTTER
- INLINE DRAIN
- RD ROOF DRAIN 6" CORRUGATED PLASTIC 3' MIN. COVER 1% MIN. SLOPE PVC IN TRAFFIC AREAS CLEANOUTS LOCATED @ ALL BENDS
- SILT FENCE OUTLET
- INLET PROTECTION
- BUILDING DOWNSPOUT
- SF SILT FENCE
- TP TREE PROTECTION FENCE
- DIVERSION DITCH
- LD LIMITS OF DISTURBANCE
- FLARED END SECTION
- CONSTRUCTION ENTRANCE
- HANDICAP PARKING AREA (2% MAX. SLOPES)
- TW=XXX.XX TW IS GROUND AT TOP OF WALL
- BW=XXX.XX BW IS GROUND AT BOTTOM OF WALL

PAVING SPECIFICATIONS

CONTRACTOR TO REFER TO SOILS REPORT FOR SITE SPECIFIC PAVEMENT SPECIFICATIONS.

NOTE:
McDONALD'S ENGINEER RESERVES THE RIGHT TO REQUEST A COMPACTION TEST AND/OR A CORE SAMPLE. IF TESTS PROVE CORRECT, PER ABOVE SPECIFICATION, TESTS WILL BE AT THE EXPENSE OF McDONALD'S, OTHERWISE, GENERAL CONTRACTOR WILL BE CHARGED.

PARKING INFORMATION

TOTAL SPACES 75 +RV PARKING	-	SPACES	-	X	-	@ 0 °
	3	HANDICAP SPACES	9'	X	19'	@ 60 °
	-	SPACES	-	X	-	@ 45 °
	72	SPACES	9'	X	19'	@ 60 °
	-	SPACES	-	X	-	@ 90 °

UTILITY INFORMATION

	SIZE TYPE LOCATION
SANITARY SEWER	6" LINE ON CHILDS ROAD
WATER	2" GALVANIZED LINE ALONG CHILDS ROAD
STORM SEWER	SITE DRAINS TO CANEY CREEK
ELECTRIC	OVERHEAD LINE ALONG CHILDS ROAD
GAS	LINA ALONG OTHER SIDE OF CHILDS ROAD

SURVEY INFORMATION

PREPARED BY: SURVEYOR
ADDRESS
ADDRESS
PHONE
DATE OF SURVEY:X DATE OF MAP: X

PLAN SCALE: 1" =30'

STREET ADDRESS
1705 SOUTH ROANE ST.

CITY	STATE
HARRIMAN	TN 37748

COUNTY
ROANE

TAX PARCEL NUMBER	LOCATION CODE NUMBER
035LA002.00	041-0084

CSD FILENAME: 08466

STATE OF TENNESSEE — JOHN ANDREW CONNALLY — REGISTERED ENGINEER — 101078 — COMMISSIONED — 9/1/11

REV	DATE	DESCRIPTION	BY
A	01-06-09	ISSUE FOR PERMIT	YAG

BRITT PETERS AND ASSOCIATES INC.
consulting engineers
550 S. Main Street
Suite 301
Greenville, SC 29601
(864) 271-8869
Fax (864) 233-5140
www.brittpeters.com

McDonald's®
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF McDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

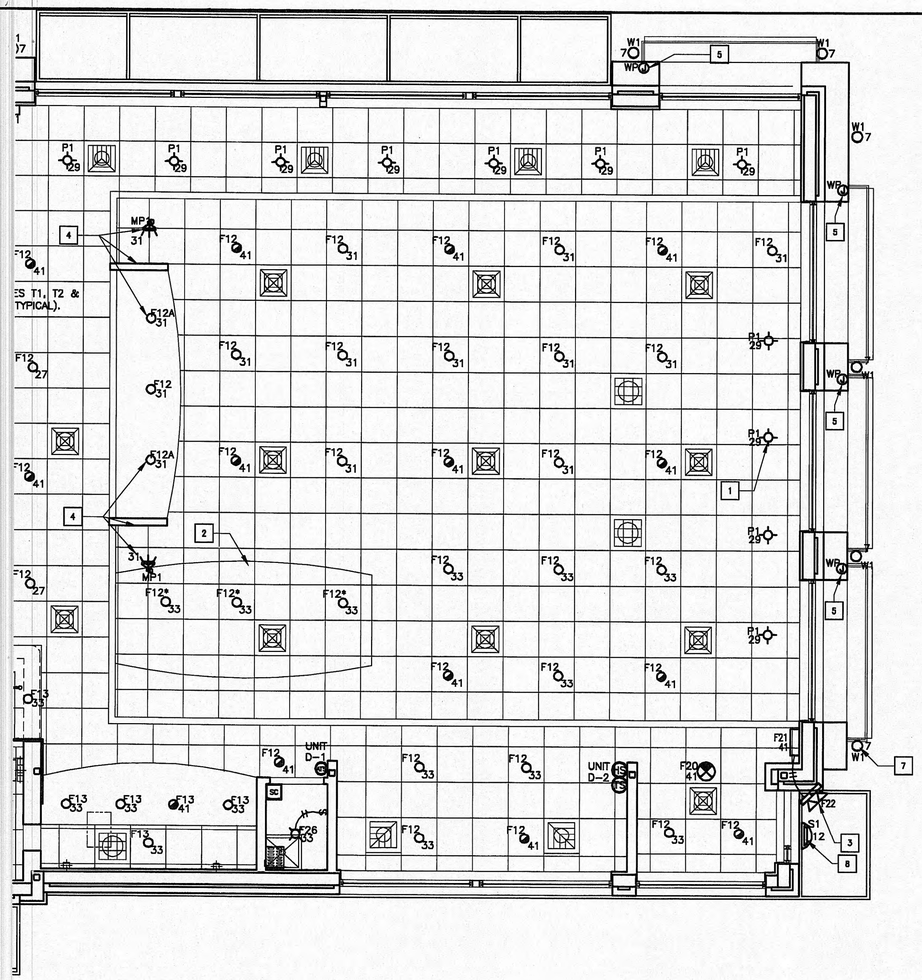
RALEIGH REGION
OFFICE: 4951 SIX FORKS ROAD - SUITE 200 - RALEIGH, N.C. 27609
ADDRESS:

PLAN APPROVAL

SIGNATURE (2 REQUIRED)	DATE	CO-SIGN SIGNATURES
REGIONAL MGR.		AREA CONSTRUCTION MGR.
REGIONAL DEV. DIRECTOR		CONTRACTOR
REGIONAL CONSTRUCTION MGR.		
REGIONAL REAL ESTATE MGR.		

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

C-5
GRADING/EROSION CONTROL PLAN



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

KEY
DENOTES FIXTURE TYPE → F2
DENOTES CIRCUIT NUMBER → 41
LIGHTING FIXTURES SHOWN HALF SHADED SHALL BE WIRED TO THE NIGHT LIGHTING CIRCUIT AND PROVIDED WITH A BATTERY TYPE EMERGENCY BALLAST. SEE NOTE EL3 ON THIS SHEET.

KEY NOTES

1. CENTER PENDANT LIGHTS OVER TABLES (TYPICAL). REPLACE WITH F12 FIXTURES IF PLASMA TVS ARE INSTALLED.
2. SOFFIT, LIGHTING, & SUPPLY GRILL TO BE COORDINATED WITH DECOR COMPANY. COORDINATE LOCATION OF ALL LIGHT FIXTURES IN DINING AREA WITH FINAL SEATING AND DECOR PLANS.
3. EC TO INSTALL AND CONFIGURE REMOTE EMERGENCY LIGHTING AT ALL EGRESS EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGRESS. ADDITIONAL EMERGENCY LIGHTING MAY BE REQUIRED AFTER THE FIELD INSPECTION. INSTALL WP J-BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EMERGENCY EGRESS LIGHTING (TYPICAL).
4. OPTIONAL ADJUSTABLE MONO-POINT (MP1) LIGHT FIXTURE OR WALL WASH FIXTURE TO ILLUMINATE LOGO OR GRAPHICS. VERIFY LOCATION SO AS TO ADEQUATELY ILLUMINATE McDONALD'S ARCH LOGO SIGN AND GRAPHICS.
5. AWNING LIGHT. LP-1:11 VERIFY EXACT SPECIFICATIONS AND LOCATION WITH AWNING MANUFACTURER. VERIFY EXACT INFEED REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E3.1. (TYPICAL)
6. CEILING HEATER/DUCT HEATER. SEE TABLE ON DRAWING E4.0 FOR CONDUIT AND WIRE SIZE (TYPICAL)
7. ARCADE UP LIGHTING, CENTER FIXTURES ON ARCADE WALL FACE. SEE SHEET E3.1 FOR INSTALLATION DETAILS (TYPICAL).
8. RADIAL WALL SCONCE. SEE NOTE L2 ON SHEET E3.1 AND ARCHITECTURAL ELEVATIONS ON SHEETS A2.0 & A2.1.

EMERGENCY LIGHTING NOTES

EL1. EC SHALL CONNECT ALL EXIT SIGNS, EMERGENCY LIGHTS AND NIGHT LIGHTS TO ONE CIRCUIT BREAKER. INSTALL A LOCK ON CIRCUIT BREAKER HANDLE. EC SHALL VERIFY ALL REQUIREMENTS AND LOCATIONS WITH LOCAL AUTHORITIES. INCLUDE ALL COSTS IN BASE BID.

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

EL3. ALL FIXTURES DENOTED AS NIGHT LIGHTING FIXTURES SHALL BE PROVIDED WITH A BATTERY INVERTER EMERGENCY TYPE BALLAST. EMERGENCY BALLAST SHALL BE A TWO LAMP TYPE OF 600-700 INITAL LUMEN RATED (MINIMUM) TO ILLUMINATE THE TWO OUTER LAMPS OF A FIXTURE IN THE EVENT OF A POWER FAILURE. BALLAST BATTERY SHALL MAINTAIN 87.5% OF THE NOMINAL BATTERY VOLTAGE AFTER 1.5 HOURS TO COMPLY WITH 2005 NEC SECTION 700.12(F) AND UL924. BALLAST SHALL BE AS MANUFACTURED BY BODINE, (MODEL B60 FOR T8 APPLIATIONS) SECURITY LIGHTING (MODEL UFO120 FOR COMPACT FLUORESCENT APPLICATIONS) OR AN APPROVED EQUAL TO MEET THE SPECIFICATIONS LISTED ABOVE.

EL4. EMERGENCY BATTERY LIGHTING WALL PACKS IN REST ROOMS AND 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)

McDONALD'S ROAD SIGN:

(1) 30 AMP 120/208 VOLT, 1 PHASE CIRCUIT #8 WIRE FROM LP-1 TO ALL SIGNS EXCEPT EXPANDED CABINET. FOR 90-200 EXPANDED CABINET,
(1) 60 AMP 120/208 VOLT 1 PHASE CIRCUIT #6 WIRE. (INCREASE WIRE SIZE AND CONDUIT SIZE AS RECOMMENDED BY SIGN MANUFACTURER TO SATISFY NOTE W2 ON SHEET E3.1).
(1) 20 AMP 208 VOLT CIRCUIT, EC TO WIRE 2#12 TO 208 VOLT FLAG FLOODLIGHTS.
(1) 20 AMP 120 VOLT CIRCUIT TO D.C.O. IN ROAD SIGN BASE IF REQUIRED.

SEE SHEET E3.1 FOR GENERAL LIGHTING NOTES AND "ROOF PLAN" (SHEET M1.0) FOR ADDITIONAL ELECTRICAL ROUGH-IN & LIGHTING REQUIREMENTS.

LIGHTING FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS WATTS	LAMPS TYPE	BALLAST	MOUNTING	LOCATION	MANUFACTURER AND CATALOG NUMBER
F1		2' X 4' GRID FLUORESCENT	PRISMATIC ACRYLIC	4-32	F32T8/3500K LOW MERCURY	ELECTRONIC	RECESSED	KITCHEN & DINING	SECURITY LIGHTING: R244BLW120 WITH WHIP AND LAMPS
F2		2' X 4' GRID FLUORESCENT	PRISMATIC ACRYLIC	3-32	F32T8/3500K LOW MERCURY	ELECTRONIC	RECESSED	SUPPORT & DINING	SECURITY LIGHTING: R243BLW120 WITH WHIP AND LAMPS
F7		1' X 4' GRID FLUORESCENT	PRISMATIC ACRYLIC	2-32	F32T8/3500K LOW MERCURY	ELECTRONIC	RECESSED	SUPPORT & DINING	SECURITY LIGHTING # R142BLW120 WITH WHIP AND LAMPS
F12	○	COMPACT FLUORESCENT DOWN LIGHT	8" SPECULAR CLEAR REFLECTOR	2-26W	PLT26W/3500K QUAD TUBE LOW MERCURY	ELECTRONIC	RECESSED	DINING	SECURITY LIGHTING # D4226E120/4498W
F12A	○	COMPACT FLUORESCENT WALL WASH LIGHT	8" SPECULAR CLEAR REFLECTOR	2-26W	PLT26W/3500K QUAD TUBE LOW MERCURY	ELECTRONIC	RECESSED	DINING	SECURITY LIGHTING # W8226E120/4480W
F13	○	COMPACT FLUORESCENT DOWN LIGHT WITH LENS	8" SPECULAR W/ LENS, SEE CATALOG #	2-26W	PLT26W/3500K QUAD TUBE LOW MERCURY	ELECTRONIC	RECESSED	DINING	SECURITY LIGHTING # D4226E120/4470W WITH ACRYLIC LENS (FRONT COUNTER ONLY)
F20	⊗	EXIT SIGN WITH BATTERY BACKUP	–	1.8	LED	–	SURFACE		SECURITY LIGHTING: PRB. SEE NOTE LS2 ON THIS SHEET.
F21		2 HEADED EMERGENCY BATTERY LIGHT	POLY-CARBONATE	2-5	T-5 TUNGSTEN	–	SURFACE TO WALL OR CEILING	REST ROOM & PLAY PLACE	SECURITY LTG. #PE6
F22		2 HEADED EMERG LIGHT & 1 REMOTE HEAD IF REQ'D	SEALED GLASS	3-5	T-5 TUNSTEN & NEMA 3R	–	SURFACE TO WALL OR SOFFIT	OUTDOOR NEAR ENTRANCE	SECURITY LIGHTING #PE6-25-2R6I- A6H6A/ MPWP1 WHEN CONNECTED TO A REMOTE HEAD (FOR SINGLE GANG JUNCTION BOX)
F26	⌑	PORCELAIN INCANDESCENT SOCKET	GLASS & WIRE GUARD	UP TO 1-60W	A19	–	SURFACE	CLOSETS	SECURITY LIGHTING ZVC-100TW
P1	⌑	PENDANT FIXTURE	–	UP TO 1-60W	A19	–	SURFACE	DINING	EXACT FIXTURE TYPE TO BE COORDINATED WITH DECOR FIRM & ACM
MP1		ARCHITECTURAL SERIES GIMBAL RING	–	75W	PAR 30 FLOOD LAMP	–	MONOPOINT MOUNTING	DINING	FIXTURE TYPE TO BE COORDINATED WITH DECOR FIRM & ACM: HTA130WH/AK-T-MP (MONOPOINT)
S1		"DOWN ONLY" RADIAL WALL SCONCE	TEMPERED GLASS	1-100W	METAL HALIDE	MAGNETIC	RECESSED	2006 STND BUILD CANOPY	SECURITY LIGHTING: RWSC-100MH-WD-PS-120 ORDER THESE NEW FIXTURES EARLY BECAUSE OF LONGER LEAD TIMES. (EXTERIOR EGRESS LIGHTING FIXTURES S1* = PROVIDE QUARTZ RESTRIKE, QSS)
S2		SOFFIT RECESSED DOWN LIGHT	TEMPERED GLASS	1-100W	METAL HALIDE	MAGNETIC	RECESSED	2006 STND BUILD CANOPY	SECURITY LIGHTING: 8614-100MH-DL-FP-OW-WH-120. ORDER THESE NEW FIXTURES EARLY BECAUSE OF LONGER LEAD TIMES. VERIFY FINISH AND APPLICATION MATERIAL WITH ACM.
W1	○	WELL LIGHT ARCADE UP LIGHTING "COOL TOUCH"	TEMPERED GLASS	1-70W	METAL HALIDE	MAGNETIC	RECESSED IN GROUND	EXTERIOR LANDSCAPE	SECURITY LIGHTING:SLS-CTWL-NF-70MH-MT- SR/LT10-MOD(REMOTE BALLAST) COOL TOUCH NO SUBSTITUTES

ROOF LIGHTING FIXTURE SCHEDULE:

R1		4' SIGNATURE RF ELMNT ACCENT LIGHTING	TEMPERED GLASS	1-40W PER FIXTURE	F40T12/3500K LOW MERCURY	MAGNETIC	SURFACE SEE SHEET M1.0	EXTERIOR ACCENT CHANNEL	SECURITY LIGHTING: HI-RAF-FLHO-48-120-**(SPECIFY COLOR) CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS. ORDER THESE NEW FIXTURES EARLY BECAUSE OF LONGER LEAD TIMES. SATIN ALUMINUM.
R2		3' SIGNATURE RF ELMNT ACCENT LIGHTING	TEMPERED GLASS	1-32W PER FIXTURE	F40T12/3500K LOW MERCURY	MAGNETIC	SURFACE SEE SHEET M1.0	EXTERIOR ACCENT CHANNEL	SECURITY LIGHTING: HI-RAF-FLHO-36-120-**(SPECIFY COLOR) CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS. ORDER THESE NEW FIXTURES EARLY BECAUSE OF LONGER LEAD TIMES. SATIN ALUMINUM.
R3		SIGNATURE RF ELMNT ACCENT LIGHTING	TEMPERED GLASS	1-100W	METAL HALIDE	MAGNETIC	SURFACE SEE SHEET M1.0	EXTERIOR ACCENT CHANNEL	SECURITY LIGHTING: SLS-KN-CFL-** (CHOOSE COLOR) MOUNT TO EC FURNISHED WP BOX WITH COVER CONTAINING 1/2" THREADED HUB. ORDER THESE NEW FIXTURES EARLY BECAUSE OF LONGER LEAD TIMES.

LIGHTING SCHEDULE NOTES:

LS1. FLUORESCENT LIGHT FIXTURE PERFORMANCE SPECIFICATION: EC SHALL SELECT LIGHT FIXTURES FROM SECURITY LIGHTING THAT MEET OR EXCEED THE FOLLOWING REQUIREMENTS:
A. SHEET METAL SHALL BE MINIMUM 22 GAGE STEEL. WHITE ENAMEL PAINTED.
B. PLASTIC LENSES SHALL BE PRISMATIC ACRYLIC. A12 PATTERN, UNLESS NOTED OTHERWISE.
C. LAY-IN FIXTURES SHALL HAVE HINGED, GASKETED DROP DOWN DOOR FRAMES.
D. PROVIDE FLANGE KITS FOR ALL INSTALLATION IN GYPSUM BOARD CEILING. VERIFY IN THE FIELD.

LS2. ORDER LED EXIT SIGNS WITH LETTER COLORS THAT COMPLY WITH LOCAL CODES FROM SECURITY LIGHTING.
- FOR RED LETTERS USE #PRB (UNIVERSAL),
- FOR GREEN LETTERS USE #PGB (UNIVERSAL), OR
IF THE ABOVE EXIT SIGNS DO NOT COMPLY WITH LOCAL CODES USE: LED SIGN WITH BATTERY BACKUP, LETTER SIZE, COLOR, TYPE & DIRECTIONAL ARROWS AS REQUIRED BY THE LOCAL AUTHORITIES.

LS3. ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

LS4. LIGHTING FIXTURES AND LAMPS HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVEL OF ILLUMINATION. LAMP AND BALLAST SPECIFICATIONS SHALL BE STRICTLY FOLLOWED. ANY DEVIATION FROM LAMP SPECIFICATIONS SHALL BE APPROVED IN WRITING BY McDONALD'S CORPORATION.

ORDER INDOOR, OUTDOOR, EMERGENCY AND PLAY PLACE LIGHT FIXTURES FROM:

MR. STEVE FRIEDMAN
SECURITY LIGHTING SYSTEMS, INC. (A HUBBELL LIGHTING COMPANY)
1085 JOHNSON DRIVE
BUFFALO GROVE, IL 60089
1-800-544-4848 FAX 847-279-0642

REV	DATE	DESCRIPTION	BY
-	-	-	-

PREPARED BY:
Michael R. Silkas
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR:
McDonald's USA, LLC

DRAWN BY	STD ISSUE DATE
CAA	JAN 2008
REVIEWED BY	DATE ISSUED
MR/TW	1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION	SITE ADDRESS
8" CMU BEARING WALLS + 4" FACE BRICK	
BAR JOIST ROOF FRAMING	
CULTURED STONE ARCADES	
SITE ID	1705 South Roane Street, Harriman, TN 37748
041-0084	

SHEET NO.
041-0084-00-0
E2.1
LIGHTING PLAN

K:\DIV\EAST\- RAL\041-0084-00-0 HARRIMAN\45114MS_E2-0_E2-1.DWG 01-15-2009 10:57

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

ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
004.09E1	6	MENU BOARD – 2' POP MODULE	120/1	1.5	SEE RMKS	1/2"C–2#12	LP–1:8	SEE RMKS	8'–4"	PROVIDE SINGLE INFEED CONN TO MENUBOARD ASSEMBLY VERIFY EXACT LOCATION & REQUIREMENTS IN FIELD
004.10E1	1	MENU BOARD – 3' MENU MODULE	120/1	2.1	SEE RMKS	1/2"C–2#12	LP–1:8	SEE RMKS	8'–4"	PROVIDE SINGLE INFEED CONN TO MENUBOARD ASSEMBLY VERIFY EXACT LOCATION & REQUIREMENTS IN FIELD
004.11E1	1	MENU BOARD – 6' CENTER EVM AND H–POP MODULE	120/1	3.67	SEE RMKS	1/2"C–2#12	LP–1:8	SEE RMKS	8'–4"	PROVIDE SINGLE INFEED CONN TO MENUBOARD ASSEMBLY VERIFY EXACT LOCATION & REQUIREMENTS IN FIELD
009.14E1	1	UTILITY CHASE – D/T PRESENTER'S BOOTH	SEE RMKS	SEE RMKS	SEE RMKS	–	–	–	SEE RMKS	UTILITY CHASE AND RECEPTACLES PROVIDED BY K.E.S.
020.00E1	1	AUTOMATED BEVERAGE SYSTEM	120/1	5.0	–	1/2"C–2#12	AP–1:12	5–20R	2'–0"	FOR SODA TOWER – POWER FROM SAME PHASE AS POS EQUIPMENT (NOT IG)
020.00E2	1	AUTOMATED BEVERAGE SYSTEM	120/1	14.9	–	1/2"C–2#12	AP–1:6	5–20R	3'–10"	FOR PRE–COOLER
021.00E1	2	COFFEE BREWER (GLASS DECANTERS)	120–208/1	18.3	20A	1/2"C–3#12	AP–1:(2,4) (14,16)	L14–20R	3'–5"	–
021.00E2	1	COFFEE BREWER (GLASS DECANTERS)	–	–	–	–	–	JB	3'–5"	FOR WATER LINE TO COFFEE BREWER IF CHASE IS NOT SPECIFIED. (SEE P1)
021.00E3	1	COFFEE BREWER (GLASS DECANTERS)	120–208/1	18.3	20A	1/2"C–3#12	AP–4:(14,16)	L14–20R BY	SEE RMKS	EC TO EXTEND CIRCUIT TO APPROPRIATE RECEPTACLE IN PRESENTER'S BOOTH CHASE
023.05E1	1	COFFEE CREAM DISPENSER	120/1	1.2	20A	1/2"C–2#12	AP–1:8	5–20R	2'–3"	–
023.05E2	1	COFFEE CREAM DISPENSER	120/1	1.2	20A	1/2"C–2#12	AP–1:24	5–20R BY KE	SEE RMKS	EC TO EXTEND CIRCUIT TO APPROPRIATE RECEPTACLE IN PRESENTER'S BOOTH CHASE
023.10E1	1	ESPRESSO BREWER	208/1	21.6	30A	1/2"C–2#10	AP–4:(18,20)	L6–30R	SEE RMKS	EC TO EXTEND CIRCUIT TO APPROPRIATE RECEPTACLE IN PRESENTER'S BOOTH CHASE
024.01E1	2	ORANGE JUICE DISPENSER	120/1	10.0	20A SEE RMKS	1/2"C–2#12	AP–1:8,26	5–20R BY KE	SEE RMKS	EC TO EXTEND CIRCUIT TO APPROPRIATE RECEPTACLE IN PRESENTER'S BOOTH CHASE
024.01E2	1	ORANGE JUICE DISPENSER	–	–	–	–	–	JB	3'–5"	FOR WATER LINE TO O.J. DISPENSER IF CHASE IS NOT SPECIFIED. (SEE P1)
025.02E1	2	ICED TEA BREWER & PORTABLE SERVER	120/1	15.0	20A	1/2"C–2#12	AP–3:27,29	5–20R	2'–3"	–
025.02E2	1	ICED TEA BREWER & PORTABLE SERVER	–	–	–	–	–	JB	2'–0"	FOR WATER LINE TO ICED TEA BREWER IF CHASE IS NOT SPECIFIED. (SEE P1)
029.01E1	2	SODA TOWER – COLD PLATE – 8 VALVE – LEVER CONTROL	120/1	2.0	20A SEE RMKS	1/2"C–2#12	AP–2:7	5–20R	1'–8" SEE RMKS	IF LOCATED ON CENTER ISLAND THIS ITEM IS POWERED BY EQUIP MTD BRKR PANEL–EC MAKES FINAL CONNECTS
031.03E1	1	SODA SYSTEM PACKAGE – B.I.B. (RECIRCULATING– 3 TOWERS)	120–208/3	24.0	30A	3/4"C–4#10	AP–2:(37,39,41)	SEE RMKS	3'–0" SEE RMKS	EC SUPPLIES 30A–3P NF DISC SW MTD@"BELOW CEILING PER NEC 2005 404.8(A) EX.2 VERIFY W/ AHJ
031.03E2	1	SODA SYSTEM PACKAGE – B.I.B. (RECIRCULATING– 3 TOWERS)	–	–	–	–	–	JB	4'–0"	FOR CONTROL WIRES FROM REMOTE CONDENSING UNIT
031.03E3	1	SODA SYSTEM PACKAGE – B.I.B. (RECIRCULATING– 3 TOWERS)	120/1	(2) 8.8	20A	1/2"C–2#12 EA.	AP–2:35	5–20R	6'–8"	FOR WATER BOOSTER SYSTEM AND OPTIONAL AIR COMPRESSOR
037.03E3	1	CO2 SAFETY SYSTEM – CO2 DETECTOR	–	–	–	–	–	JB	1'–0"	STUB 3/4"C. ABOVE CLG. FOR LV COND. TO 037.03E2 & 037.03E4, SEE MECHANICAL DRAWINGS
037.03E4	1	CO2 SAFETY SYSTEM – CO2 DETECTOR AV ALARM	–	–	–	–	–	JB	7'–0" MINIMUM	STUB 3/4"C. ABOVE CLG. FOR LV COND. TO 037.03E3. SEE MECHANICAL DRAWINGS
038.00E1	1	CLEAN IN PLACE PANEL	120/1	1.0	20A	1/2"C–2#12	AP–2:2	5–20R	5'–6"	–
039.10E1	1	ICE MACHINE – 1200 LB.	120/1	1.1	20A	1/2"C–2#12	AP–2:8	5–20R	SEE RMKS	MOUNT 9" BELOW CEILING – CIRCUIT BREAKERS SHALL BE HACR TYPE
039.10E2	1	ICE MACHINE – 1200 LB.	–	–	–	–	–	JB	4'–6" SEE RMKS	CONTROL WIRES TO REMOTE CONDENSER – IF ICE MACH. ON SODA TOWER OR ICE DISP. MOUNT JB AT 8'–0" AFF
039.15E1	3	ICE MACHINE – 1000 LB.	120/1	1.1	15A	1/2"C–2#12	AP–1:37,39,41	5–15R	SEE RMKS	MOUNT 9" BELOW CEILING – CIRCUIT BREAKERS SHALL BE HACR TYPE
041.09E1	3	ICE MACHINE REMOTE CONDENSER – 1000 LB.	208/3	10.6	20A SEE RMKS	1/2"C–3#12	AP–1:(32,34,36) (38,40,42) AP–2:(1,3,5)	SEE RMKS	SEE RMKS	EC TO PROVIDE WP 30A–3P NF DISC AT UNIT ON ROOF – CIRCUIT BREAKERS SHALL BE HACR TYPE
043.15E1	2	HEATED LANDING ZONE	208/1	11.0	20A	1/2"C–2#12	KES BREAKER PANEL	L6–20R BY K	SEE RMKS	PLUGS INTO KES OUTLET CHASE
044.27E1	1	KES OUTLET CHASE – EQUIPMENT MOUNTED	SEE RMKS	SEE RMKS	SEE RMKS	–	KES BREAKER PANEL	–	SEE RMKS	KES PROVIDES ALL RECEPTACLES PRE–WIRED TO KES BREAKER PANEL.
044.29E1	1	BREAKER PANEL– 125 AMP – 3 PHASE EQUIPMENT MOUNTED	120–208/3	SEE RMKS	125A	2"C–4#1	MDP:5	–	SEE RMKS	EC TO EXTEND AND CONNECT ELECTRICAL SERVICE. HARDWIRE TO KES BREAKER PANEL.
047.00E1	1	SALAD CASE – FULL HEIGHT	120/1	5.5	20A	1/2"C–2#12	AP–1:30	5–20R	2'–0"	–
061.00E1	1	FRY BAGGING STATION 36"	120/1	15.7	20A	1/2"C–2#12	AP–1:31	JB	4'–0"	–
065.17E1	1	3–VAT FRYER – ELECTRIC – S/S/S	208/3	39.0 EA. VAT	(3) 60A	1"C–3#6 EA. VAT	MDP:15,17,19	–	–	PLUGS INTO RACEWAY RECEP WITH(1)L21–20P INTERLOCK PLUG &(3) 15–60P POWER PLUG BY KES
066.03E1	1	4–VAT FRYER – ELECTRIC – F/F/F/F	208/3	39.0 EA. VAT	(4) 60A	1"C–3#6 EA. VAT	MDP:14,16,18,20	–	–	PLUGS INTO RACEWAY RECEP WITH(1)L21–20P INTERLOCK PLUG &(4) 15–60P POWER PLUG BY KES
073.00E1	1	UNIVERSAL EXHAUST HOOD (R.H.) ELECTRIC 3–VAT FRYER	120/1	12.7	20A	1/2"C–2#12EA	AP–1:23	–	–	EC TO CONN. POWER TO RACEWAY FLA = 6.8 FRYER CONTROLS & 5.9 INDVID. EXHAUST FAN INTERLOCK
074.00E1	1	UNIVERSAL EXHAUST HOOD (R.H.) ELECTRIC 4–VAT FRYER	120/1	13.3	20A	1/2"C–2#12	AP–1:29	–	–	EC TO CONN. POWER TO RACEWAY FLA = 7.4 FRYER CONTROLS & 5.9 INDVID. EXHAUST FAN INTERLOCK
085.05E1	1	FROZEN FRY DISPENSER	120/1	9.0	20A	1/2"C–2#12	AP–1:27	5–20R	4'–0"	–
091.00E1	1	WALL MOUNT FREEZER UNIT–SINGLE WIDE	120/1	10.0	20A	1/2"C–2#12	AP–2:22	5–20R	7'–6"	–
094.06E1	1	UNIVERSAL EXHAUST HOOD (L.H.) 2–ELEC FULL–CLAM GRILLS	120/1	13.3	20A	1/2"C–2#12	AP–2:17	–	–	EC TO CONN. POWER TO RACEWAY FLA = (2) 3.7 GRILL CONTROLS & 5.9 INDVID. EXHAUST FAN INTERLOCK
098.03E1	2	36" CLAMSHELL GRILL – ELECTRIC	208/3	29.5 EA/SIDE	(2)50A	1–1/2"C–6#4EA	AP–4:(1,3,5) (2,4,6) (7,9,11) (8,10,12)	–	–	PLUGS IN RACEWAY RECEP WITH(1)L21–20P INTERLOCK& (2) 15–50P POWER PLUG EA GRILL BY KES
097.00E1	1	MEAT FREEZER – SINGLE WIDE	120/1	3.0	20A	1/2"C–2#12	AP–2:19	5–20R	–	UNIT PLUGS INTO RACEWAY RECEPTACLE
097.01E1	1	MEAT FREEZER – DOUBLE WIDE	120/1	6.7	20A	1/2"C–2#12	AP–2:19	5–20R	–	UNIT PLUGS INTO RACEWAY RECEPTACLE
116.01E4	4	UNIVERSAL HOLDING CABINET – 2–SIDED – PIN & SLEEVE	208/1	15.0	20A	SEE RMKS	KES BREAKER PANEL	BY KES	SEE RMKS	PLUGS INTO KES OUTLET CHASE.
117.02E1	1	UHC TABLE – 2 – SIDED – 36"DP. – TWIST–LOCK	120/1	2.0	20A	SEE RMKS	KES BREAKER PANEL	BY KES	SEE RMKS	PLUGS INTO L5–20R RECPTACLE IN KES OUTLET CHASE.
117.13E1	2	UHC TABLE – 2 SIDED – 36"DP.x28"W. – TWIST–LOCK	120/1	2.0	20A	SEE RMKS	KES BREAKER PANEL	L5–20R BY K	SEE RMKS	PLUGS INTO KES OUTLET CHASE.
118.00E1	2	Q'ING OVEN – PIN & SLEEVE	208/1	19.2 EA.	20A EA.	1/2"C–2#12	AP–2:(18,20) (28,30)	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C6W(8) PROVIDED BY KES– HEIGHT OT BOTTOM OF RECEPTACLE
122.22E1	1	ANTUNES UNIVERSAL TOASTER – PIN & SLEEVE	208/3	24.0	30A	1/2"C–3#10	AP–3:(13,15,17)	SEE RMKS	5'–6"	IF PRINCE CASTLE TOASTER IS USED, EC TO COORDINATE CORRECT CIRCUIT WITH KES SUPPLIED CONOSET.
122.23E1	1	CLUB TOASTER – PIN & SLEEVE	208/1	13.9	30A	1/2"C–2#10	AP–3:(5,7)	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 330C6W(8) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
123.21E2	1	MODULAR PREP TABLE W/ REFRIG. – 2–SIDED – 30" x 60" – LEFT HAND – PIN & SLEEVE	120/1	7.0	20A	SEE RMKS	KES BREAKER PANEL	BY KES	SEE RMKS	PLUGS INTO KES OUTLET CHASE.
125.00E1	1	RAPID FILET BUN STEAMER	208/1	14.3	30A	1/2"C–2#10	AP–3:(2,4)	SEE RMKS	3'–0"	PLUGS INTO OVERHEAD RECEPTACLE # 330C6W(8) PROVIDED BY KES– HEIGHT TO BOTTOM OF RECEPTACLE
131.00E1	2	BISCUIT OVEN	208/3	21.8	30A	1/2"C–3#10	AP–3:(8,10,12) (24,26,28)	SEE RMKS	2'–0"	L4–30R9 RECEPTACLE SUPPLIED BY KES. INSTALLED BY EC REQUIRES 2 1/2" MIN. JB DEPTH
135.00E1	1	MARINATOR	120/1	12.5	20A	1/2"C–2#12	AP–2:21	L5–20R	1'–6"	–
143.00E1	1	EGG COOKER – MANUAL – TWIST LOCK	208/1	15.1	20A	1/2"C–2#12	AP–2:(36,38)	L21–20R	1'–6"	–
163.02E1	4	REMOTE ANSUL PULL	–	–	–	–	–	JB	SEE DETAILS	4"OCTAGONAL, RACO #165 OR EQUAL MUST BE USED.IF FLUSH MTD,MUST PROJECT 1/4"TO 5/16"PAST FIN. WALL
171.00E1	1	WALK–IN COOLER / FREEZER FLOORLESS	120/1	10.00	20A	1/2"C–2#12 EA	AP–2:14,16	JB	@ CLG	JB FOR LIGHTS & DOOR HEATER– UNSWITCHED LIGHT TO BE IN BOTH COOLER&FREEZER,EC TO CONNECT POWER
171.00E2	1	WALK–IN COOLER / FREEZER FLOORLESS	–	–	–	–	–	–	VIF	EC TO FURNISH & INSTALL CONDUIT,WIRE & LIGHT FIXTURES& OTHER DEVICES INSIDE COOLER/FREEZER BOX
174.00E1	1	REMOTE CONDENSING UNIT	208–230/3	41.0	50A	1"C–3#6	AP–4:(17,19,21)	JB	VIF	TERMINATE POWER CONDUCTORS TO REMOTE CONDENSING UNIT FUSABLE DISCONNECT SWITCH
174.00E2	1	REMOTE CONDENSING UNIT	LOW VOLT WIRES	–	–	–	–	–	VIF	L V WIRES CONNECT MAC UNIT TO EVAPS & SHALL BE ROUTED IN SEALITITE WHERE EXPOSED TO WEATHER
175.11E1	1	COOLER EVAPORATOR – AIR–COOLED	208–230/1	–	20A SEE RMKS	1/2"C–2#12	PWR BY MAC UNIT	JB	@ CLG	ELIMINATE CIRCUIT BREAKER IF USED WITH MAC UNIT
175.11E2	1	COOLER EVAPORATOR – AIR–COOLED	LOW VOLT WIRES	–	–	–	–	–	@ CLG	L V WIRES CONN MAC UNIT TO EVAPS & SHALL BE ROUTED SEPARATELY FROM POWER CONDUCTORS
176.19E1	1	FREEZER EVAPORATOR – AIR–COOLED	208–230/1	–	30A SEE RMKS	1/2"C–2#10	PWR BY MAC UNIT (SEE NOTE 11)	JB	@ CLG	NO CCT BREAKER REQ WITH MAC UNIT–IF FAN SHUT–OFF SW. REQ SYS PUMPDOWN RELAY MUST BE INSTALLED
176.19E2	1	FREEZER EVAPORATOR – AIR–COOLED	LOW VOLT WIRES	–	–	–	–	–	@ CLG	L V WIRES CONN MAC UNIT TO EVAPS & SHALL BE ROUTED SEPARATELY FROM POWER CONDUCTORS
178.00E1	1	REACH–IN FREEZER –SINGLE WIDE	120/1	10.0	20A	1/2"C–2#12	AP–3:31	5–20R	7'–6"	–
178.02E1	1	REACH–IN FREEZER–SINGLE WIDE	120/1	10.0	20A	1/2"C–2#12	AP–3:33	5–20R	7'–6"	–
179.02E1	1	REACH–IN REFRIGERATOR–BOTTLED BEVERAGE	120/1	8.0	20A	1/2"C–2#12	AP–2:26	5–20R	7'–6"	–
179.03E2	1	REFRIGERATOR – UNDERCOUNTER	120/1	4.0	20A	1/2"C–2#12	AP–2:13	5–20R BY KE	SEE RMKS	EC TO EXTEND CIRCUIT TO APPROPRIATE RECEPTACLE IN PRESENTER'S BOOTH CHASE
179.04E1	1	REFRIGERATOR – PASS–THRU	120/1	8.0	20A	1/2"C–2#12	AP–3:32	SEE RMKS	5'–6"	PLUGS INTO OVERHEAD RECEPTACLE # 320C4W(Y) PROVIDED BY KES
179.09E1	1	REFRIGERATOR – WALL/DOORLESS	120/1	–	20A	1/2"C–2#12	AP–1:10	–	SEE RMKS	EC TO EXTEND CIRCUIT TO APPROPRIATE RECEPTACLE IN CHASE #9.10
181.00E1	1	REFRIGERATOR – WORK TOP – 27" WIDE	120/1	4.0	20A	1/2"C–2#12	AP–1:13	5–20R	2'–0"	PLUGS INTO CENTER ISLAND BREAKER PANEL IF ADJACENT TO IT
181.01E2	1	SPECIALTY COFFEE REFRIGERATOR – 27" WIDE	120/1	4.0	20A	1/2"C–2#12	AP–4:24	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN PRESENTER'S BOOTH CHASE
181.04E1	1	REFRIGERATOR – WORK TOP – 48" WIDE	120/1	4.5	20A	1/2"C–2#12	AP–1:13	5–20R	2'–0"	–
196.02E1	1	SAFE – STANDARD BLDG.	120/1	–	20A	1/2"C–2#12	AP–1:7	5–20R	2'–0"	PROVIDE LOCKOUT TYPE CB
197.01E1	3	HAND WASH TIMER	120/1	.10	20A	1/2"C–2#12	AP–1:33	5–20R	1'–6"	–
203.02E1	1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	208/3	35.0	40A	3/4"C–3#8	AP–1:(18,20,22)	4x4x4 PB	1'–0"	RECEP #A460R9 BY KES –EC MAKES FINAL CONN
205.07E1	1	SMOOTHIE MACHINE	120/1	15.0	20A	1/2"C–2#12	AP–1:28	5–20R	2'–3"	–
207.00E1	1	BLENDER – MCFLURRY – COUNTERTOP	120/1	2.6	20A	1/2"C–2#12	AP–1:24	5–20R	1'–0"	OUTLET FOR FOOT PEDAL – BLENDER PLUGS INTO FOOT PEDAL PLUG
214.00E1	1	CREW VIDEO	120/1	SEE RMKS	20A	1/2"C–2#12	AP–2:24	(2)5–20R	SEE RMKS	VERIFY ALL ELECTRICAL CHARACTERISTICS AND MOUNTING HEIGHT WITH ACM
215.00E1	3	POS PC HARDWARE – FRONT COUNTER	120/1 ISOLATED	3.0 EA.	20A	1/2"C–2#12IG	CP:4	IG4700	2'–0"	EC TO RUN 1/2" COND IN WALL FOR FLUSH MTD SPCL. RECEP FOR KEYSTATIONS (MONITOR,CPU &CASH DRAWERS)

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

ELECTRICAL SCHEDULE

TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
215.00E6	1	POS PC HARDWARE – FRONT COUNTER	DATA CABLE	–	–	–	–	4x4x4 PB	1'–6"	EXTEND 2 1/2" CONDUIT UNDER SLAB TO 215.00E7 FOR POS DATA CABLES
215.00E7	1	POS PC HARDWARE – BEVERAGE COUNTER	DATA CABLE	–	–	–	–	8x6x4 PB	1'–6"	EXTEND 2 1/2"C UNDER SLAB TO 215.02E11, 2"C TO 217.00E2 AND 2 1/2" C UNDER SLAB TO 215.00E8
215.02E1	1	POS PC HARDWARE – 2 BOOTH D/T	120/1 ISOLATED	2.2 EA.	SEE RMKS	1/2"C–2#12IG	SEE REMARKS	(2)IG4700	2'–0"	IN ORDER BOOTH, CONNECT TO CP:7 – IN PRESENTERS BOOTH, CONNECT TO CP:8
215.02E10	2	POS PC HARDWARE – 2 BOOTH D/T	120/1 ISOLATED	2.2 EA.	20A	1/2"C–2#12IG	CP:8	IG4700 BY K	SEE RMKS	EC TO EXTEND CIRCUIT TO APPROPRIATE RECEPTACLE IN CHASE #9.10
215.02E11	1	POS PC HARDWARE – 2 BOOTH D/T	–	–	–	–	–	8x6x4 PB	3'–5"	EXTEND 2 1/2" C. UNDER SLAB TO 215.00E7, 2 1/2" C. TO ABOVE CEILING AND 2 1/2" C. TO 215.02E5
215.02E4	1	POS PC HARDWARE – 2 BOOTH D/T	–	–	–	–	–	10x6x4 PB	10"	EXTEND 2 1/2"C. UNDER SLAB TO 224.00E4, (2) 1 1/2"C. TO C.O.D.'S, AND 2 1/2"C. TO 217.11E1.
215.02E5	1	POS PC HARDWARE – 2 BOOTH D/T	–	–	–	–	–	8x6x4 PB	10"	EXTEND 2 1/2"C. UNDER SLAB TO 215.02E11, 2"C. TO 217.00E1 AND 2 1/2"C. TO 217.11E1
215.04E3	4	POS – KVS MONITOR	120/1 ISOLATED	1.5	20A	1/2"C–2#12IG	CP:3	IG4700	@ CLG	–
216.00E1	3	POS – VIDEO MONITOR W/SUPPORTS	120/1 ISOLATED	1.5 EA.	SEE RMKS	1/2"C–2#12IG	SEE REMARKS	IG4700	SEE RMKS	IN PRESENTERS BOOTH MOUNT @ 8'–0"–CONNECT TO CP:8, IN PREP LINE AREA MOUNT @ CLG.–CONNECT TO CP:3
216.00E7	1	POS – VIDEO MONITOR W/SUPPORTS	120/1 ISOLATED	1.5 EA.	SEE RMKS	1/2"C–2#12IG	CP:8	IG4700 BY K	SEE RMKS	EC TO EXTEND CIRCUIT TO APPROPRIATE RECEPTACLE IN CHASE #9.10
216.00E8	1	POS – VIDEO MONITOR W/SUPPORTS	120/1 ISOLATED	1.5 EA.	SEE RMKS	1/2"C–2#12IG	CP:8	IG4700	2'–0"	–
217.00E1	1	PARK/ROTATE/SERVE BUMP BAR	DATA CABLE	–	–	–	–	4x4x4 PB	4'–0"	2" CONDUIT TO 215.03E6 FOR 3 BOOTH, 215.02E5 FOR 2 BOOTH, OR 215.01E4 FOR 1 BOOTH DRIVE–THRU
217.00E2	1	PARK/ROTATE/SERVE BUMP BAR	DATA CABLE	–	–	–	–	4x4x4 PB	2'–6"	2" CONDUIT TO 215.00E7
217.01E1	2	DRIVE–THRU WINDOW AIR UNIT	208/1	32.0	40A	3/4"C–2#8	AP–1:(15,17) (19,21)	JB	SEE RMKS	ORDER THE REQUIRED DISCONNECT SWITCH FROM READY ACCESS #30228000. LOCATE JB &DISCONNECT IN FIELD
217.03E4	1	POS – COD OPTICAL ISOLATOR	120/1 ISOLATED	1.0	SEE RMKS	1/2"C–2#12IG	CP:14	IG5262	7'–6"	–
217.09E1	1	WIRELESS COMMUNICATION SYSTEM	120/1	–	20A	1/2"C–2#12	AP–1:3	5–20R	3'–9"	USED FOR BATTERY CHARGER
217.11E1	2	DETECTOR LOOP	–	–	–	–	–	–	–	2 1/2"CONDUIT–CONN TO PULLBOX#215.02E5,215.01E4, OR 215.02E4 PER DRIVE–THRU CONFIG–SEE SITE PLAN
217.13E1	2	MERGE POINT MONITOR (DOUBLE DRIVE THRU)	120/1	2	20A	1/2"C–2#12	AP–1:11	5–20R	4'–6"	DO NOT POWER FROM POS CIRCUIT
217.13E2	2	MERGE POINT MONITOR (DOUBLE DRIVE THRU)	120/1	2	20A	1/2"C–2#12	AP–1:11	BY KES	SEE RMKS	EC TO EXTEND CIRCUIT TO 5–20R RECEPTACLE IN PRESENTER'S BOOTH CHASE
217.14E1	1	POS– VIDEO MONITOR (DOUBLE DRIVE THRU)	120/1 ISOLATED	1.5	SEE RMKS	1/2"C–2#12IG	SEE REMARKS	IG4700	7'–6"	IN ORDER BOOTH, CONNECT TO CP:4 – IN PRESENTERS BOOTH, CONNECT TO CP:2
217.17E1	1	AIR CURTAIN – 48"	120/1	5.1	20A	1/2"C–2#12	AP–2:4	JB	7'–7" SEE RMKS	ACM TO FIELD VERIFY ROUGH–IN REQUIREMENTS AND LOCATION
219.00E1	1	POS – RECEIPT PRINTER	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:3	IG4700	@ CLG	–
219.00E3	4	POS – RECEIPT PRINTER/CASHLESS	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:4,8 SEE RMKS	IG4700	2'–0"	FOR RECEIPT LOCATED IN FRONT COUNTER POWER FROM CP:4 IN PRESENTER'S BOOTH CP:8
219.00E7	1	POS – RECEIPT PRINTER	120/1 ISOLATED	0.7	20A	1/2"C–2#12IG	CP:3	IG4700 BY K	SEE RMKS	EC TO EXTEND IG CIRCUIT TO IG RECEPTACLE IN KES OUTLET CHASE.
219.04E1	1	LABELING SYSTEM	120/1 ISOLATED	2.5	20A	1/2"C–2#12IG	CP:3	IG5261	2'–0"	–
220.00E1	1	POS – COIN DISPENSER	120/1 ISOLATED	0.75	20A	1/2"C–2#12IG	CP:7	IG4700	2'–0"	–
221.01E1	1	POS – OFFICE	DATA CABLE	–	–	–	–	4x4x4 PB	2'–0"	EXTEND 2 1/2" CONDUIT ABOVE CEILING. CABLE FURNISHED AND INSTALLED BY POS SYSTEM SUPPLIER
221.01E2	1	POS – OFFICE	PHONE HANDY BOX	–	–	–	–	RJ–11CJACK	2'–0"	–
221.01E3	1	POS – OFFICE	120/1 ISOLATED	6.1	20A	1/2"C–2#12IG	CP:12	(3) IG4700	1'–6"	FOR ISP & CCU, MONITOR, HUB, MODEM, & VIDEO SPLITTER
221.01E5	1	POS – OFFICE	120/1 ISOLATED	9.0	20A	1/2"C–2#12IG	CP:11	IG5262	1'–6"	REQUIRED FOR LASER PRINTER
221.01E6	1	POS – OFFICE	DATA CABLE	–	–	–	–	4x4x4 PB	7'–6"	EXTEND 2 1/2" CONDUIT ABOVE CEILING.
221.03E1	2	POS – CAT.5 NETWORK RACK	120/1 ISOLATED	3.0	20A	1/2"C–2#12IG	CP:15	IG5262	7'–6"	–
221.04E1	1	POS – INTERNET SERVER	120/1 ISOLATED	10.0	20A	1/2"C–2#12IG	CP:15	IG5262	7'–6"	–
221.06E1	2	POS – CONNECTIVITY DATA CABLE	DATA CABLE	–	–	–	–	JB	2'–0"	EXTEND 1" CONDUIT ABOVE CLG. W/BUSHING FOR FUTURE DATA CABLE
221.07E1	1	POS – COMPUTER @ CREW TRAINING	120/1 ISOLATED	3.75	20A	1/2"C–2#12IG	CP:16	IG5262	2'–0"	–
223.07E1	1	WASHER	120/1	11.0	20A	1/2"C–2#12	AP–2:31	5–20R	3'–6"	–
224.00E3	2	AUDIO SYSTEM – 2 BOOTH D/T	AUDIO CABLE	–	–	–	–	4x4x4 JB	8'–0"	EXTEND 2 1/2" C. ABOVE CEILING FOR POS & WIRELESS SYSTEM, AND 2 1/2" C. BELOW SLAB TO 215.02E4
224.00E4	2	AUDIO SYSTEM – 2 BOOTH D/T	AUDIO CABLE	–	–	–	–	4x4x4 JB	8'–0"	EXTEND 2 1/2" C. ABOVE CEILING FOR POS & WIRELESS SYSTEM, AND 2 1/2" C. BELOW SLAB TO 215.02E4
237.00E1	1	PIE DISPLAY	120/1	4.5	20A	1/2"C–2#12	KES BREAKER PANEL	5–20R BY KE	SEE RMKS	PLUGS INTO KES OUTLET CHASE.
700.09E1	2	ECONOMY OEP BOX W/MOUNTING HARDWARE	–	–	–	–	–	–	SEE RMKS	CEILING MOUNTED
700.10E1	1	BULK OIL SYSTEM	120/1	7.2, 10.0	20A	1/2"C– 2#12EA	AP–2:15,27	(2)5–20R	8'–0"	OPTIONAL POWER FOR NEW OIL PUMP AND RECIRCULATION HEATING SYSTEM
700.10E2	1	BULK OIL SYSTEM	120/1	6.9	20A	1/2"C–2#12	AP–2:29	5–20R	SEE RMKS	OPTIONAL POWER FOR OPTIONAL GRILL GREASE PUMP – OUTLET IS PART OF GRILL STATION CHASE.
700.10E3	1	BULK OIL SYSTEM	PHONE HANDY BOX	–	–	–	–	RJ–11C JACK	8'–0"	TELEPHONE LINE FOR TELEMETRY SYSTEM
700.22E1	1	SEALED–COMBUSTION WATER HEATER – GAS	120/1	4.0	20A	1/2"C–2#12	AP–1:35	JB	SEE RMKS	EC TO VERIFY JB HEIGHT IN FIELD – EC TO PROVIDE PADLOCKABLE DEVICE AT OCT BRKR PER NEC 2005 422.31
701.01E1	4	HAND DRYER	120/1	18.0	20A	1/2"C–2#12EA	AP–3:14,16,18,20	JB	SEE RMKS	INSTALL JB AT A MOUNTING HGT. THAT RESULTS IN A MAX. OF 3'–4" AFF TO OPERATING MECHANISM.
701.13E1	4	DCO – GENERAL PURPOSE	120/1	1.5	20A	1/2"C–2#12	AP–2:6	5–20R	4'–6"	–
701.13E2	4	DCO – GENERAL PURPOSE	120/1	1.5	20A	1/2"C–2#12	AP–2:6	5–20R	3'–9"	–
701.13E3	8	DCO – GENERAL PURPOSE	120/1	1.5	20A	1/2"C–2#12	AP–2:11	5–20R	1'–8"	–
701.13E4	2	DCO – GENERAL PURPOSE	120/1	1.5	20A	1/2"C–2#12	AP–1:5	5–20R	@ CLG	–
701.13E5	1	DCO – GENERAL PURPOSE	120/1	1.5	20A	1/2"C–2#12	AP–1:5	5–20R	7'–0"	–
701.14E1	1	TELEPHONE	PHONE HANDY BOX	–	–	–	–	RJ–11C JACK	4'–6"	–
701.14E3	2	TELEPHONE	PHONE HANDY BOX	–	–	–	–	RJ–11C JACK	3'–9"	–
701.14E4

GENERAL ELECTRICAL NOTES:

INSTALLATION METHODS:

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

M2. ALL DIMENSIONS SHOWN ARE TAKEN FROM FACE OF 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.

M5. EC SHALL PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES ON ALL RECEPTACLES AND J-BOXES. ADDITIONALLY, EC SHALL PROVIDE AND INSTALL ORANGE NYLON COVER PLATES MARKED "COMPUTER ONLY" ON ALL ISOLATED GROUND/DEDICATED CIRCUIT RECEPTACLES. PURCHASE PJBCO (ONE DUPLEX) OR PJB2CO (TWO DUPLEX) FROM HUBBELL.

M6. ROUGH-INS FOR OPTIONAL EQUIPMENT ARE SHOWN ON THESE SHEETS. EC SHALL VERIFY WITH McDONALD'S PROJECT MANAGER WHICH OPTIONAL EQUIPMENT IS TO BE INCLUDED AND INSTALL OPTIONAL ROUGH-INS AS REQUIRED. INCLUDE ALL COSTS IN BID.

M7. EC SHALL COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER, MECHANICAL CONTRACTOR AND GC FOR FINAL LOCATIONS AND CONNECTION REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION OF ANY CONDUIT AND/OR STUB-UP LOCATIONS.

M8. CEILING MOUNTED ECONOMY OEP BOX IS FURNISHED BY McDONALD'S, AND INSTALLED BY THE GC. CORD AND PLUG SET FURNISHED BY KES INSTALLED BY THE EC.

M9. FOR GRILLS, FRYERS, AND ANSUL SYSTEMS, EC SHALL EXTEND CONDUIT AND CONDUCTORS DOWN CHASE OR WALL TO TERMINAL BLOCK MOUNTED ON EQUIPMENT AND MAKE FINAL CONNECTIONS TO TERMINAL BLOCKS.

M10. ALL HOLES IN THE FRONT COUNTER FOR THE POS CORDS AND CABLES SHALL BE LOCATED BY OWNER AND DRILLED BY GC.

M11. ALL ELECTRICAL CONDUCTORS SHALL BE CONNECTED TO RECEPTACLES USING ONLY THE TERMINAL SCREWS. RECEPTACLE BACK WIRE/QUICK CONNECTIONS SHALL NOT BE USED.

M12. BOHN AND HEATCRAFT PROVIDES AND REQUIRES THE INSTALLATION OF 20BV HEAT TRACE ON THE FREEZER EVAPORATOR CONDENSATE DRAIN LINE. HEATCRAFT REQUIRES THIS HEAT TRACE TO OPERATE CONTINUOUSLY. EC SHALL WIRE HEAT TRACE TO FREEZER EVAPORATOR POWER SUPPLY. A SEPARATE CIRCUIT FOR HEAT TRACE IS NOT REQUIRED.

M13. POWER AND CONTROL CORDS ARE FURNISHED WITH KITCHEN APPLIANCES. THE EC SHALL CONNECT CORD SETS TO APPLIANCES AS REQUIRED.

M14. CEILING TILE INSTALLER SHALL LEAVE OUT CEILING TILE IN AREAS OF THE BEVERAGE BAR REFRIGERATION LINES AND EQUIPMENT PENETRATION LOCATIONS UNTIL THE LINES HAVE BEEN INSTALLED. THE CEILING TILE INSTALLER SHALL RETURN AND INSTALL THE TILES AFTER THE REFRIGERATION LINES HAVE BEEN INSTALLED AND TESTED.

GROUNDING:

G1. ALL BRANCH AND FEEDER CIRCUITS SHALL BE GROUNDED BY TWO METHODS. THE FIRST METHOD SHALL INCLUDE AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR CONTAINED WITHIN THE SAME CONDUIT AS THE PHASE CIRCUIT CONDUCTORS AND SIZED PER NEC SECTION 250 REQUIREMENTS. THIS INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL HAVE ONE END PROPERLY TERMINATED AT THE EQUIPMENT GROUND BUS IN THE CORRESPONDING CIRCUIT BREAKER PANEL, AND THE OTHER END TERMINATED AT THE GROUNDING CONTACT OF A GROUNDING RECEPTACLE AND TO THE JUNCTION BOX OR TO AN EQUIPMENT CABINET, AS APPLICABLE. THE SECOND METHOD PROVIDES EQUIPMENT GROUNDING VIA METALLIC CONDUIT THAT IS CONNECTED AND TERMINATED IN FITTINGS LISTED FOR GROUNDING PER NEC SECTION 250 REQUIREMENTS. BOTH GROUNDING METHODS ARE REQUIRED IN A McDONALD'S RESTAURANT. ISOLATED GROUND SHALL BE INSTALLED WHERE INDICATED ON PLAN AND AS SHOWN IN POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL ON SHEET E4.2.

G2. THE BUILDING GROUNDING SYSTEM SHALL COMPLY WITH 2005 NEC ARTICLE 250, McDONALD'S SPECIFICATIONS, AND SHEET E4.2. CAUTION: IT IS A SAFETY HAZARD AND AN NEC VIOLATION TO HAVE ANY NEUTRAL TO GROUND CONNECTIONS BEYOND THE MAIN ELECTRICAL DISCONNECT MEANS. McDONALD'S GROUNDING STANDARDS PURPOSELY EXCEED THOSE GIVEN BY THE NEC. THE EC SHALL PROVIDE A BUILDING GROUNDING SYSTEM MEETING NEC SECTION 250 REQUIREMENTS AS WELL AS McDONALD'S STANDARDS.

G3. EC SHALL REFER TO "POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL, SHEET E4.2, FOR REQUIRED WIRING REQUIREMENTS OF COMPUTER PANEL CP.

G4. METAL RACEWAYS CONTAINING A GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250 REQUIREMENTS.

CONDUIT AND WIRE:

W1. THE FOLLOWING WIRING METHODS SHALL NOT BE USED: NON-METALLIC SHEATHED CABLE (ROMEX, NM, NMC, & NMS), ARMORED CABLE TYPE AC (BX), ELECTRICAL NON-METALLIC TUBING, TYPE ENT (SMURF-TUBE).

W2. CONDUIT RUNS MAY BE COMBINED EXCEPT WHERE ISOLATED GROUNDS ARE USED. IG CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS. ALL HOME RUNS SHALL SIZED BASED ON DERATED CONDUCTOR AMPACITIES AND INCREASE CONDUIT AND WIRE SIZE AS REQUIRED BY NEC SECTION 310 REQUIREMENTS.

W3. CONDUIT SHALL HAVE A MAXIMUM OF 4 BENDS WITHOUT A JUNCTION BOX TO PREVENT DAMAGE TO CABLE DURING PULLING. THE EC SHALL PIGTAIL #12 PULL WIRE AT EACH END FOR INSTALLER TO PULL CABLE. ALL LOW VOLTAGE CONDUIT STUB-UPS SHALL BE PROVIDED WITH A BUSHING.

W4. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS NOTED OTHERWISE. WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW.

W5. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER. ALUMINUM CONDUCTORS SHALL NOT BE UTILIZED FOR FEEDER OR BRANCH CIRCUIT DISTRIBUTION.

W6. RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS, INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES:

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

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

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

1. EXPOSED: EMT, IMC.
2. CONCEALED: EMT, IMC.
3. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC; EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
4. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
5. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT AS FOLLOWS: A. DAMP, WET OR KITCHEN LOCATIONS: NEMA 250, TYPE 4, STAINLESS STEEL.

W7. ALL CONDUITS PENETRATING THE FREEZER/COOLER BOX SHALL BE SEALED IN COMPLIANCE NEC SECTION 300 REQUIREMENTS.

W8. PROVIDE THREE (3) 3/4" EMPTY CONDUITS FROM PANEL LP-1 UP TO THE CEILING SPACE AND CAP FOR FUTURE USE.

UTILITIES:

U1. INCOMING SERVICE SHALL BE 208Y/120V, 3 PHASE, 4 WIRE. ANY DEVIATIONS TO THIS SERVICE TYPE SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY McDONALD'S CORPORATION.

U2. THE EC SHALL ARRANGE WITH THE ELECTRIC, TELEPHONE, AND OTHER UTILITY COMPANIES FOR INCOMING SERVICE REQUIREMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID.

U3. THE EC SHALL VERIFY EXACT METHODS AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY. CURRENT TRANSFORMERS SHALL BE INSTALLED OUTSIDE RESTAURANT. LOCATE INSIDE ONLY IF REQUIRED BY UTILITY COMPANY OR LOCAL AUTHORITIES.

U4. PROVIDE CONCRETE PAD IF TRANSFORMER IS LOCATED ON GRADE AND PROVIDE SECONDARY SERVICE FEEDER AND CONDUITS TO PANEL MDP AS PER LOCAL UTILITY REQUIREMENTS.

U5. THE EC/GC/PROJECT MANAGER SHALL OBTAIN AVAILABLE SHORT CIRCUIT CURRENT FROM THE LOCAL UTILITY COMPANY. THE EC/GC/PROJECT MANAGER SHALL ADVISE IN WRITING, (FAX SUPPLIER THE UTILITY LETTER) THE AVAILABLE AMOUNT OF FAULT CURRENT. THE PANELBOARD SUPPLIER SHALL BE RESPONSIBLE TO VERIFY THAT THE ELECTRICAL EQUIPMENT SHIPPED HAS APPROPRIATE ELECTRICAL RATINGS WHICH ARE EQUAL TO OR GREATER THAN THE AVAILABLE AMOUNT OF FAULT CURRENT AT THE SITE.

U6. EC AND PM OR OWNER/OPERATOR AND PM SHALL COORDINATE WITH LOCAL PHONE COMPANY TO PROVIDE A 10 PAIR (OR MORE) COPPER TELEPHONE CABLE FROM THE TELEPHONE UTILITY EASEMENT TO MCDONALD'S RESTAURANT TELEPHONE DEMARCATION POINT. IF THE TELEPHONE PANEL/BOX IS LOCATED INSIDE THE RESTAURANT, EC SHALL PROVIDE (2) EMPTY 3/4" CONDUITS FROM THE TELEPHONE PANEL/BOX UP TO ABOVE THE CEILING FOR FUTURE TELEPHONE CABLE INSTALLATION. ADDITIONALLY, THE EC SHALL PROVIDE AN EMPTY 3/4" CONDUIT FROM THE TELEPHONE PANEL/BOX TO THE LOCATION OF THE FUTURE INTERNET SERVER (VERIFY LOCATION WITH PM). EC SHALL CONNECT, INSTALL AND INCORPORATE ALL OTHER REQUIREMENTS NECESSARY FOR COMPLETE AND OPERATIONAL TELEPHONE SYSTEM(S) FOR THIS SITE. THE REMAINING UNUSED TELEPHONE CONDUCTOR PAIRS SHALL BE CAPPED AND LEFT IN PLACE FOR FUTURE USE. THE TELEPHONE PANEL/BOX SHALL BE GROUNDED AS SHOWN IN MCDONALD'S "BUILDING ELECTRICAL GROUNDING DETAIL."

U7. EC SHALL VERIFY WITH PM IF OPTIONAL PAYPHONE WILL BE INCLUDED AT THIS SITE. IF SO, EC SHALL VERIFY EXACT LOCATION OF PAYPHONE AND LOCATE ITS JUNCTION BOXES AT A HEIGHT THAT WILL ALLOW THE PAYPHONE TO COMPLY WITH ALL LOCAL AND ADA REQUIREMENTS. TYPICAL PAYPHONE ELECTRICAL ROUGH-INS CONSIST OF : (TO BE VERIFIED WITH LOCAL PROVIDER.) * ADDITIONAL PHONE LINE WITH A 3/4" CONDUIT STUBBED-UP ABOVE THE CEILING * 120 VOLT POWER: JUNCTION BOX WITH 1/2"C-2#12 & 1#12 GND. TO AVAILABLE CIRCUIT AT PANEL. INCLUDE ALL PHONE SYSTEM COSTS IN THE BASE BID.

LIGHTING:

L1. PROVIDE A WEATHERPROOF JUNCTION BOX IN PARAPET FOR FASCIA SIGN. FINAL CONNECTION BY OTHERS. VERIFY EXACT LOCATION OF SIGN WITH McDONALD'S PROJECT MANAGER PRIOR TO INSTALLATION.

L2. COORDINATE THE LOCATION OF JUNCTION BOX (IN THE WALL) WITH THE OPENING IN TRELLIS (FOR THE LIGHT FIXTURE WIRES). THE LOCATION OF THE JUNCTION BOX AND THE OPENING IN THE TRELLIS SHALL BE ALIGNED FOR THE LIGHT FIXTURE TO BE INSTALLED PROPERLY. COORDINATE INSTALLATION OF JUNCTION BOX AND ANY NECESSARY OPENINGS IN TRELLIS WITH GC AND AREA CONSTRUCTION MANAGER. SEE LIGHT FIXTURE INSTALLATION INSTRUCTIONS FOR REQUIREMENTS REGARDING MOUNTING BRACKETS FOR USE IN C-CHANNEL TRELLISES. COORDINATE LOCATION WITH TRELLIS MANUFACTURER.

L3. EC SHALL FIELD VERIFY THAT LIGHT FIXTURES DO NOT OBSTRUCT OR CONFLICT WITH THE WORK OF OTHER TRADES. IF A DISCREPANCY IS FOUND, THE EC SHALL IMMEDIATELY NOTIFY THE GC BEFORE THE THE INSTALLATION OF SUCH FIXTURE(S). EC SHALL COORDINATE LOCATIONS OF ALL LIGHT FIXTURES IN DINING AREA WITH FINAL SEATING AND DECOR PLANS.

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

L5. EC SHALL COORDINATE LOCATION OF ALL EXTERIOR LIGHTS WITH McDONALD'S PROJECT MANAGER 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 "MC" CABLE IN LENGTHS OF 6 FEET OR LESS (WHERE PERMITTED BY LOCAL CODES) SHALL BE ALLOWED FOR WIRING TO INTERIOR LIGHTING FIXTURES. "ROMEX" OR "BX" SHALL NOT BE USED.

L7. EC SHALL VERIFY THAT NOT MORE THAN 3% VOLTAGE DROP EXISTS FROM THE LIGHTING PANEL TO ANY EXTERIOR LIGHTING FIXTURE OR SIGNAGE BALLAST.

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

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

TEMPERATURE SENSORS:

T1. REMOTE TEMPERATURE SENSORS: EC SHALL PROVIDE 1/2" CONDUIT FROM JUNCTION BOX ABOVE CEILING DOWN TO SENSOR MOUNTED AT 5'-0" AFF.

T2. SEE DETAIL ON SHEET M3.0. SEE SHEET M3.0 FOR SENSOR MOUNTING DETAIL. LOCATION OF WALL MOUNTED TEMPERATURE SENSORS ARE SHOWN ON SHEET M2.0 AND E2.0.

T3. WHEN WIRING FOR PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS IS NOT IN A CONDUIT, THE WIRING SHALL BE RUN TO THE UNDERSIDE OF THE ROOF DECK. NONE OF THE WIRING SHALL BE ROUTED OVER FLUORESCENT BALLASTS, POWER BOXES OR IN A CONDUIT WITH LINE VOLTAGE WIRING AS ELECTRICAL INTERFERENCE (NOISE) WILL CAUSE ERRATIC CONTROL OPERATION.

PLASMA TELEVISIONS:

TV1. EC SHALL PROVIDE A DUPLEX RECEPTACLE AND A 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.

TOUCHLESS FAUCETS AND FLUSH VALVES (OPTIONAL):

P1. 120V/24VAC, 50VA CONTROL TRANSFORMER FOR SENSOR OPERATED FLUSHOMETERS. EC SHALL PROVIDE 120 VOLT CIRCUIT TO TRANSFORMER PRIMARY. TRANSFORMER PROVIDED BY PLUMBING CONTRACTOR, INSTALLED BY EC. TRANSFORMER SHALL BE LOCATED SO AS TO BE IN A NON-CUSTOMER ACCESSIBLE AREA. TRANSFORMER CAN CONTROL UP TO 10 FLUSH VALVE SENSORS (VERIFY IN FIELD).

P2. JUNCTION BOX FOR FLUSH VALVE SENSORS. ALL SENSORS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE EC. EC SHALL PROVIDE 24VAC CONTROL WIRING FROM SECONDARY OF TRANSFORMER TO ALL FLUSH VALVE SENSORS AND WIRE COMPLETE. PROVIDE ALL NECESSARY JUNCTION BOXES, DRYWALL RINGS, AND TERMINATIONS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM. EC SHALL COORDINATE FINAL LOCATION OF ALL FLUSH VALVE SENSOR JUNCTION BOXES WITH THE PLUMBING CONTRACTOR AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS TO ENSURE PROPER OPERATION.

P3. EC SHALL PROVIDE A GFI PROTECTED RECEPTACLE BELOW EACH RESTROOM LAVATORY FOR THE INSTALLATION OF THE SENSOR FAUCETS. FAUCETS SHALL BE CONTROLLED VIA PLUG TYPE TRANSFORMER 120V/24VAC. TRANSFORMER AND CONTROL BOX SHALL BE FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED AND WIRED BY EC.

ELECTRICAL PANELS:

E1. THE EC SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.

E2. THE EC SHALL PROVIDE ELECTRICAL SERVICE TO THE EQUIPMENT MOUNTED BREAKER PANEL. SEE ELECTRICAL ROUGH-IN PLAN AND SCHEDULE FOR ALL REQUIREMENTS.

E3. THE EC SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANEL SHALL BE PROVIDED WITH AN ACCURATE TYPEWRITTEN CIRCUIT DIRECTORY AT THE CONCLUSION OF THE PROJECT AND PRIOR TO RESTAURANT OPENING.

SECURITY AND DRIVE-THRU CAMERAS:

S1. EC TO PROVIDE ELECTRICAL POWER AND COMMUNICATION CONDUITS FOR BUILDING MOUNTED SECURITY AND DRIVE THRU CAMERAS. COORDINATE FINAL LOCATIONS WITH SECURITY AND DRIVE THRU CAMERA INSTALLERS.

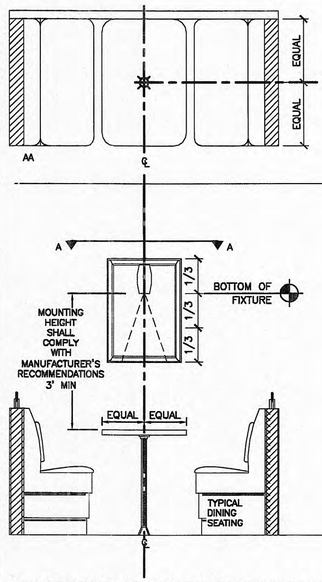
PLAYPLACE:

1. WHERE POSSIBLE AND PRACTICAL, POWER RECEPTACLES SHALL BE INSTALLED IN AREAS THAT ARE NOT ACCESSIBLE TO CUSTOMERS, AND LOCATED SO THAT THE POWER CORD FROM TOY EQUIPMENT CAN READILY REACH THE RECEPTACLE LOCATION.
2. WHERE RECEPTACLES ARE REQUIRED TO BE INSTALLED IN LOCATIONS THAT ARE ACCESSIBLE TO CUSTOMERS, A LOCKABLE WHILE IN USE, GASKETED, WEATHERPROOF TYPE COVER SHALL BE PROVIDED.
3. EXTENSION CORDS SHALL NOT BE UTILIZED UNDER ANY CIRCUMSTANCES.
4. WHERE RECEPTACLES ARE REQUIRED TO BE LOCATED WITHIN THE FLOOR FOR POWERING OF PLAYPLACE/R-GYM EQUIPMENT, PREFERRED METHOD IS TO PROVIDE A STEEL TWO GANG MULTIPLE SERVICE CONCEALED FLOORBOX WITH A BRASS SCREW-DOWN COVER- THOMAS & BETTS STEEL CITY NUMBER 663-SC OR APPROVED EQUAL. BRASS SCREW DOWN COVER SHALL HAVE A HINGED COVER ACCESS POINT THAT ALLOWS POWER CORD TO EXIT CONCEALED FLOORBOX, BUT DOES NOT ALLOW ACCESS TO OUTLET WITHOUT REMOVING COVER. RECEPTACLES SHALL BE POWERED FROM A GFCI TYPE CIRCUIT BREAKER.
5. WHERE CONDITIONS DO NOT ALLOW FOR THE USE OF A CONCEALED FLOORBOX, PROVIDE A FLUSH CAST IRON SINGLE OR TWO GANG FLOORBOX (DEPENDANT UPON POWER AND DATA REQUIREMENTS), WALKER WIREMOLD MODEL SERIES 880CS (OMNIBOX) OR APPROVED EQUAL. PROVIDE A LOCKABLE, GASKETED, WEATHERPROOF WHILE IN USE TYPE COVER FOR FLOORBOX. RECEPTACLES SHALL BE POWERED FROM A GFCI TYPE BREAKER.
6. IF ANY EQUIPMENT REQUIRES THE USE OF A LOCAL SAFETY DISCONNECT SWITCH THAT IS IN A LOCATION ACCESSIBLE TO CUSTOMERS, PROVIDE A LOCK FOR SAID COVER OF DEVICE TO PREVENT ACCESS TO ENERGIZED COMPONENTS.
7. THE METAL STRUCTURAL ELEMENTS OF THE PLAYPLACE/R-GYM TOY SHALL NOT BE UTILIZED AS A RACEWAY FOR LINE VOLTAGE POWER CONDUCTORS, UNLESS LISTED AND LABELED FOR THE PURPOSE.
8. ELECTRICAL EQUIPMENT, CONDUIT AND/OR BOXES SHALL NOT BE FASTENED OR SECURED TO THE METAL STRUCTURAL ELEMENTS OF THE PLAYPLACE/R-GYM TOY, UNLESS REQUIRED BY MANUFACTURER FOR POWERING OF A TOY ELEMENT.
9. REFER TO MCDONALD'S PROJECT MANUAL SPECIFICATIONS, SECTION 16060-GROUNDING AND BONDING, SECTION 16120-CONDUCTORS AND CABLES, SECTION 16130-RACEWAY AND BOXES, AND SECTION 16140- WIRING DEVICES FOR ADDITIONAL INFORMATION AND MCDONALD'S SPECIFIC ELECTRICAL INSTALLATION REQUIREMENTS

TABLE W6:

LOCATION	208V.	480V.	LOW ENERGY*
EXPOSED			
INDOORS	< 1" EMT COMPRESS. FTGS >1.25" IMC THREADED FTGS	IMC THREADED FTGS	EMT COMPR. FTGS
OUTDOORS	RMC OR IMC THREADED FTGS	RMC OR IMC THREADED FTGS	RMC OR IMC THREADED FTGS
CONCEALED			
WALLS	<2" EMT SET SCREW FTGS >2.5" IMC THREADED FTGS	<2" EMT SET SCREW. FTGS >2.5" IMC THREADED FTGS	EMT 1/2"- 2" SET SCREW FTGS 2.5" - 4" COMPR. FTGS
AIR HANDLING CEILING/ SPACE	<2" EMT COMPR. FTGS >2.5" IMC THREADED. FTGS	2" EMT COMPR. FTGS < >2.5" IMC THREADED. FTGS	EMT COMPR. FTGS
NON AIR HNDLNG CEILING/ SPACE	<2" EMT SET SCREW FTGS >2.5" IMC THREADED. FTGS	<2" EMT COMPR. FTGS >2.5" IMC THREADED. FTGS	EMT 1/2" - 2" SET SCREW FTGS 2.5"- 4" COMPR. FTGS
BELOW GRADE			
INTERIOR	IMC THREADED FTGS OR SCHEDULE 40 OR 80 PVC	IMC THREADED FTGS	IMC THREADED FTGS SCHEDULE 40 OR 80 PVC
EXTERIOR	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS

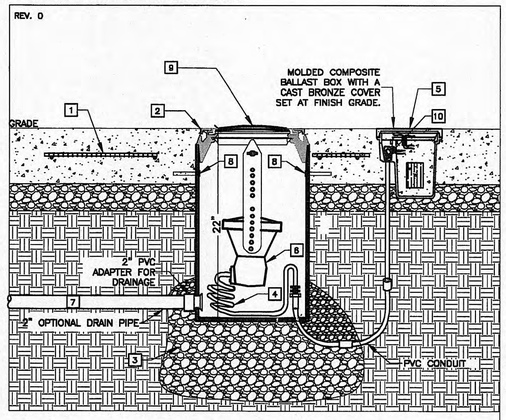
PENDANT INSTALLATION DETAIL



FINAL TERMINATION TO BE COORDINATED WITH DECOR SEATING AND ARTWORK. REFER TO FOREVER YOUNG GUIDELINES.

WELL LIGHT INSTALLATION DETAILS:

CONCRETE INSTALLED WELL LIGHT:



KEY NOTES:

1. GC SHALL USE ADEQUATE REBAR SURROUNDING THE FIXTURE TO PREVENT CRACKING OF THE CONCRETE DUE TO HEAT EXPANSION.
2. GC SHALL INSTALL FIXTURE FLUSH WITH CONCRETE, MARBLE, OR PAVERS.
3. GC TO INSTALL 18" OF DRAINAGE GRAVEL.
4. EC SHALL COIL 6' CORD INSIDE WELL TO FACILITATE EASY REMOVAL FOR RE-LAMPING.
5. CONNECT FIXTURE WIRES TO FIELD WIRES OBSERVING POLARITY, GREEN-TO -GROUND, WHITE-TO-COMMON, AND BLACK-TO-VOLTAGE. LOCATE BALLAST AWAY FROM FIXTURE TO ALLOW CONCRETE TO FILL SPACE.
6. EC SHALL VERIFY AIMING ANGLE AND LAMP ASSEMBLY HEIGHT WITH OWNER/OPERATOR/PROJECT MANAGER TO PROPERLY ILLUMINATE ARCADE. PERFORM AIMING AND FINAL ADJUSTMENT AT NIGHT.
7. IN AREAS OF HIGH WATER TABLE OR POOR DRAINAGE, INSTALL 2" DRAINAGE PIPE AND COORDINATE WITH SITE DRAINAGE.
8. 4-3/8" Ø x3" BOLTS IN FACTORY THREADED HOLE.
9. WELL LIGHT FIXTURE SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS PROVIDED WITH FIXTURE. INSTALL 12"O.C. FROM ARCADE FACE.
10. SEAL THE CORD AND FIELD WIRE ACCESS INTO THE BALLAST BOX SPLICE COMPARTMENT.

GENERAL NOTES:

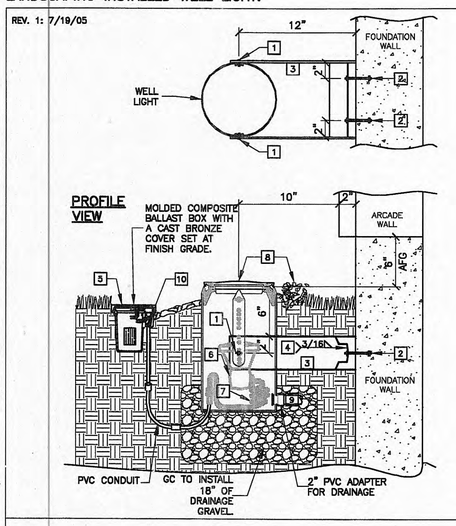
A. SEAL THE CONDUIT ENTRIES WITH RTV.

B. DO NOT POWER-WASH LIGHT FIXTURES.

ORDER WELL LIGHT FIXTURES FROM:

(NO SUBSTITUTIONS OR ALTERNATES):
MR. STEVE FRIEDMAN
SECURITY LIGHTING SYSTEMS, INC.
(A HUBBELL LIGHTING COMPANY)
1085 JOHNSON DRIVE
BUFFALO GROVE, IL 60089
1-800-544-4848
FAX 847-279-0642
MODEL# SLS-CTWL-NF-70MH-MT-SR/LT10-MOD

LANDSCAPING INSTALLED WELL LIGHT:



KEYNOTES:

1. 3/8"Ø BOLT WITH WASHER & NUT PLUS AN ADDITIONAL OVERSIZED WASHER FOR PLATE CONNECTION.
2. 3/8"Ø EXPANSION ANCHORS OR 3/8 ANCHOR BOLTS (DEPENDENT UPON TIME OF INSTALLATION.
3. PL. 1/4"X4" W/ 1-1/2" LONG VERTICAL SLOTTED HOLE.
4. C4X7.5
5. CONNECT FIXTURE WIRES TO FIELD WIRES OBSERVING POLARITY, GREEN-TO-GROUND, WHITE-TO-COMMON, AND BLACK-TO-VOLTAGE.
6. EC SHALL VERIFY AIMING ANGLE WITH OWNER/OPERATOR/PROJECT MANAGER TO PROPERLY ILLUMINATE WALL. PERFORM AIMING AND FINAL ADJUSTMENT AT NIGHT.
7. EC SHALL COIL 6' CORD INSIDE WELL FOR EASY LAMP REPLACEMENT.
8. INSTALL WELL LIGHT PER MANUFACTURER'S REQUIREMENTS. PROTECT LENS AREA FROM ROCK, BARK, LOW GROUND COVER, AND OTHER LANDSCAPING MATERIALS.
9. IN AREAS OF HIGH WATER TABLE OR POOR DRAINAGE, INSTALL 2" DRAINAGE PIPE AND COORDINATE WITH SITE DRAINAGE.
10. SEAL THE CORD AND FIELD WIRE ACCESS INTO THE BALLAST BOX SPLICE COMPARTMENT.

GENERAL NOTES:

A. ALL STEEL SHALL BE STAINLESS.

B. SEAL THE CONDUIT ENTRIES WITH RTV.

NO.	REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael R. Silkas
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

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PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	STD ISSUE DATE
CAA	JAN 2008
REVIEWED BY	DATE ISSUED
MR/TW	1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

DESCRIPTION	SITE ADDRESS
8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES	1705 South Roane Street, Harriman, TN 37748
SITE ID	
041-0084	

SHEET NO.
041-0084-00-0
E3.1
NOTES & DETAILS

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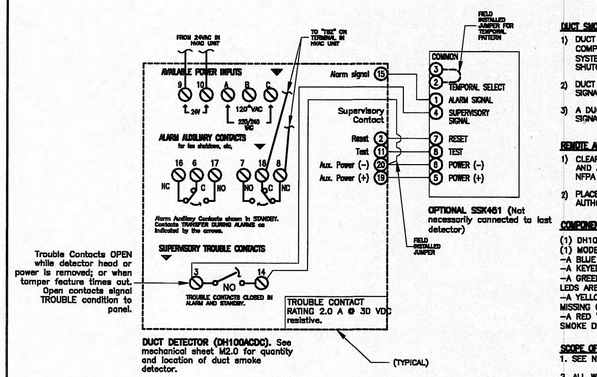
DUCT SMOKE DETECTOR WIRING DIAGRAM WITH MULTI-SIGNALING ACCESSORY

(WIRING SHOWN FOR MULTI-SIGNALING PANEL – CONSULT HONEYWELL FIRE SYSTEMS GROUP/ SYSTEM SENSOR FOR WIRING TO FIRE ALARM CONTROL ACCESSORY AT:
Mr. Wendell Chafin, National Accounts Manger, Honeywell Fire Systems Group, (203) 484-7125, ext.5725. Mobile # (859) 221-8417
(wendell.chafin@honeywell.com)

Alternate contact:
Mr. Ron Martin, Operations Manger, Honeywell Fire Systems Group Services (770) 495-9199 (ronald.martin@honeywell.com) (www.HoneywellFSGServices.com)



DUCT SMOKE DETECTOR OPERATION:

1) DUCT DETECTOR ACTIVITION SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM COMPLIANT WITH INTERNATIONAL MECHANICAL CODE (IMC) 606–SMOKE DETECTOR SYSTEM CONTROL, AND UNIFORM MECHANICAL CODE (UMC) 609–AUTOMATIC SHUTOFFS.

2) DUCT DETECTOR ACTIVATION SHALL ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL COMPLIANT WITH ABOVE MENTIONED CODE.

3) A DUCT DETECTOR TROUBLE CONDITION SHALL ACTIVATE A VISIBLE OR AUDIBLE SIGNAL COMPLIANT WITH ABOVE MENTIONED CODE.

REMOTE ALARM INSTALLATION:

1) CLEARLY LABEL TO INDICATE BOTH FUNCTION (IN–DUCT SMOKE DETECTOR ALARM) AND AIR HANDLING UNIT ASSOCIATED WITH EACH SMOKE DETECTOR. COMPLY WITH NFPA 72 AND ALL LOCAL CODES.

2) PLACE REMOTE ALARMS IN A READILY ACCESSIBLE LOCATION APPROVED BY THE AUTHORITY HAVING JURISTICATION.

COMPONENT REQUIREMENTS:

(1) DH100ACDC DUCT SMOKE DETECTOR
(1) MODEL SSK451 MULTI–SIGNALING DEVICE CONTAINING:
–A BLUE LENSED STROBE LIGHT INDICATING "SMOKE"
–A KEYED TEST SWITCH
–A GREEN "POWER" LED (ON WHEN DUCT DETECTOR IS POWERED–ALL LEDS ARE OFF UPON LOSS OF POWER)
–A YELLOW "TROUBLE" LED (ON WHEN DUCT DETECTOR SENSOR BOARD IS MISSING OR THE COVER IS REMOVED FOR MORE THAN 20 MINUTES)
–A RED "ALARM" LED (LED AND HORN WILL BE ON WHEN EVER THE DUCT SMOKE DETECTOR IS IN ALARM)

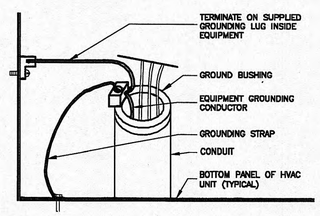
SCOPE OF WORK:

1. SEE NOTE 10 ON SHEET M–1.

2. ALL WIRING BETWEEN THE "DH100ACDC" AND "SSK451" DEVICES SHALL BE CONNECTED AS INDICATED IN MANUFACTURER'S GUIDELINES.

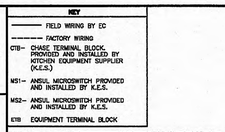
CONDUIT, WIRE SIZE AND GROUNDING FOR HVAC UNITS

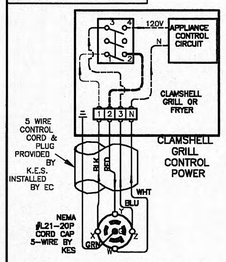
HACR BRKR SIZE	CONDUIT & WIRE SIZE
40A	1"C–3#8
45A	1"C–3#6
50A	1"C–3#6
60A	1"C–3#6
70A	1–1/4"C–3#4
80A	1–1/4"C–3#3
90A	1–1/4"C–3#3
100A	1–1/4"C–3#2
125A	1–1/2"C–3#1
150A	1–1/2"C–3#1/0
175A	2"C–3#2/0
200A	2"C–3#3/0
225A	2"C–3#4/0
250A	2–1/2"C–3#250



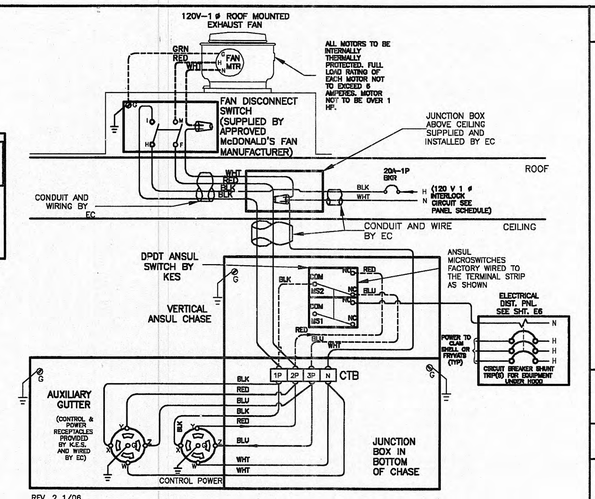
HVAC GROUNDING DETAIL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL ELECTRICAL FEEDERS AND CIRCUIT BREAKERS WITH THE MANUFACTURER'S WRITTEN DATA FOR EACH MECHANICAL DEVICE PRIOR TO SUBMITTAL OF ANY ELECTRICAL EQUIPMENT FOR REVIEW, NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY CHANGES TO ELECTRICAL FEEDERS OR CIRCUIT BREAKERS REQUIRED FOR ANY MECHANICAL DEVICES.





EXHAUST FAN AND FRY VATS INTERLOCK WIRING DIAGRAM



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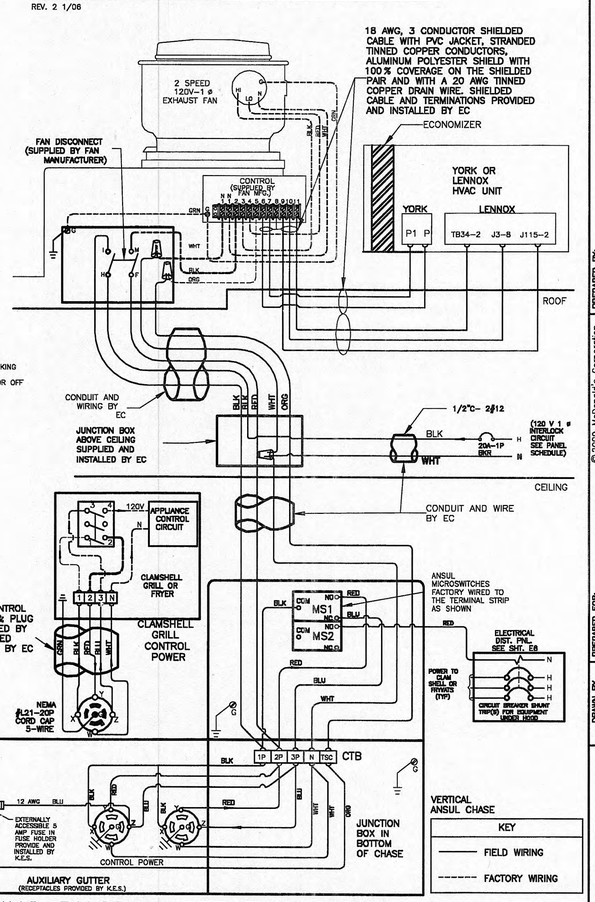
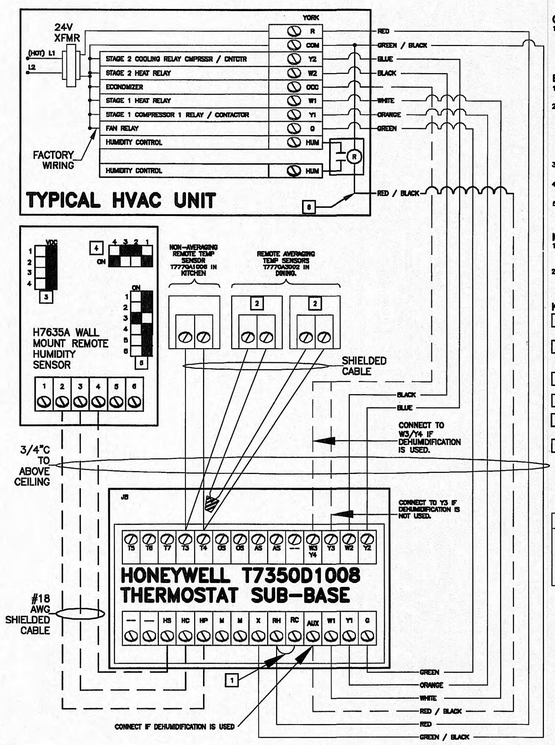


INTERLOCK WIRING DIAGRAM FOR TWO SPEED EXHAUST FAN AND TWO CLAM SHELL GRILLS

9/05 REV. 3

SEQUENCE OF OPERATION:

1. TURNING "ON" ANY ONE PIECE OF COOKING EQUIPMENT UNDER A HOOD WILL ALSO TURN ON THE EXHAUST FAN FOR THAT HOOD.
2. TURNING "OFF" THE LAST PIECE OF COOKING EQUIPMENT UNDER A HOOD WILL ALSO TURN OFF THE EXHAUST FAN FOR THAT HOOD.
3. IF THE ANSUL SYSTEM SHOULD DISCHARGE WHILE THE COOKING EQUIPMENT AND EXHAUST FAN ARE OPERATING, THE COOKING EQUIPMENT WILL BE SHUT OFF, BUT THE EXHAUST FAN WILL CONTINUE TO RUN. AND WILL FORCE THE ROOFTOP UNITS INTO A "SCHEDULED" MODE (CONTROLLED BY THE THERMOSTAT).
4. THE ANSUL SYSTEM MUST BE RECHARGED AND RESET BEFORE THE COOKING EQUIPMENT WILL AGAIN BE ABLE TO OPERATE.
5. THE ON/OFF SWITCH ON THE EXHAUST FAN IS NORMALLY KEPT IN THE "ON" POSITION. IF IT IS TURNED OFF FOR SERVICE, THE COOKING EQUIPMENT WILL ALSO TURN OFF AND NOT BE ABLE TO OPERATE TILL THE EXHAUST FAN ON/OFF SWITCH IS AGAIN TURNED ON.
6. WHEN ONE OR BOTH CLAMSHELL GRILLS ARE IN THE COOKING MODE, THE EXHAUST FAN WILL RUN AT ITS FASTEST SPEED. BOTH CLAMSHELL GRILLS NEED TO BE IN THE STANDBY MODE BEFORE THE EXHAUST FAN WILL OPERATE AT A REDUCED SPEED.



GENERAL NOTES:

1. VERIFY THERMOSTAT/ REMOTE SENSOR & HUMIDISTAT WIRING WITH MANUFACTURER INSTALLATION INSTRUCTIONS & CONNECTION TO HVAC UNIT.

EC SHALL:

1. FURNISH AND INSTALL ALL LOW VOLTAGE CABLES.
2. FURNISH AND INSTALL ALL CONDUIT, FITTINGS, BUSHINGS, AND JUNCTION BOXES, PROVIDING THERMOPLASTIC BUSHINGS ON CONDUIT STUB–UPS TO PREVENT DAMAGE TO THE CABLING, IN COMPLIANCE WITH NEC AND LOCAL CODES.
3. ASSEMBLE AND INSTALL THERMOSTATS & SUB BASES.
4. MOUNT & INSTALL REMOTE SENSORS ON WOOD BASE.
5. MAKE ALL FINAL CONNECTIONS.

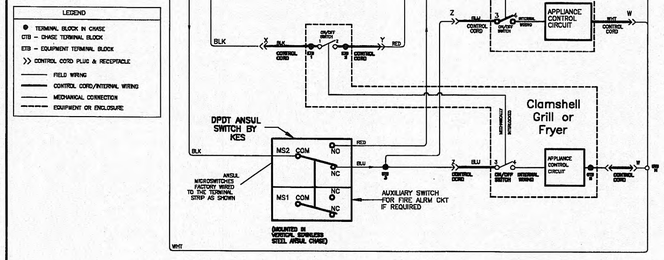
MC SHALL:

1. FURNISH THERMOSTAT WITH T7350D BASE–SHOWN PER DRAWINGS.
2. FURNISH HONEYWELL REMOTE SENSORS PER DRAWINGS.

KEYNOTES:

1. FACTORY INSTALLED JUMPER. REMOVE IF DUAL TRANSFORMERS PRESENT.
2. SIZE MECHANICAL SPEEDS FOR LOCATIONS WHERE AVERAGING REMOTE SENSORS ARE REQUIRED.
3. WHITE GANG SWITCH ON A BLUE BLOCK (SET TO VDC)
4. 4 DIP SWITCH BLOCK SET AT 0–10 VDC (1 & 4 ON)
5. 6 DIP SWITCH BLOCK (3 ON)
6. WITH YORK UNITS, THE AUXILIARY OUTPUT OF THE THERMOSTAT SHALL ACTIVATE HUMIDITY CONTROL THROUGH A CONTACTOR (SQUARE D 8501–KS41–V14 @ 8910 29V AC COIL OR EQUIVALENT).

KEY:
FIELD WIRING
MODIFIED FIELD WIRING.



INTERLOCK LADDER DIAGRAM

FOR REFERENCE ONLY

MARKEL CEILING HEATERS ELECTRICAL REQUIREMENTS

SEE "M" SHEETS FOR ACTUAL UNIT TO BE USED.

MARKEL HEATERS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED COMPLETE BY ELECTRICAL CONTRACTOR

HEATER SIZE	CONDUIT AND WIRE SIZE	CIRCUIT BREAKER SIZE	VOLTAGE AVAILABLE
2 KW	1/2", 2#12	20A–2P	208 VOLT, SINGLE PHASE
3 KW	1/2", 2#12	20A–2P	208 VOLT, SINGLE PHASE
4 KW	1/2", 2#10	30A–2P	208 VOLT, SINGLE PHASE

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael R. Silkas
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

1/23/09

PREPARED FOR:
McDonald's USA, LLC

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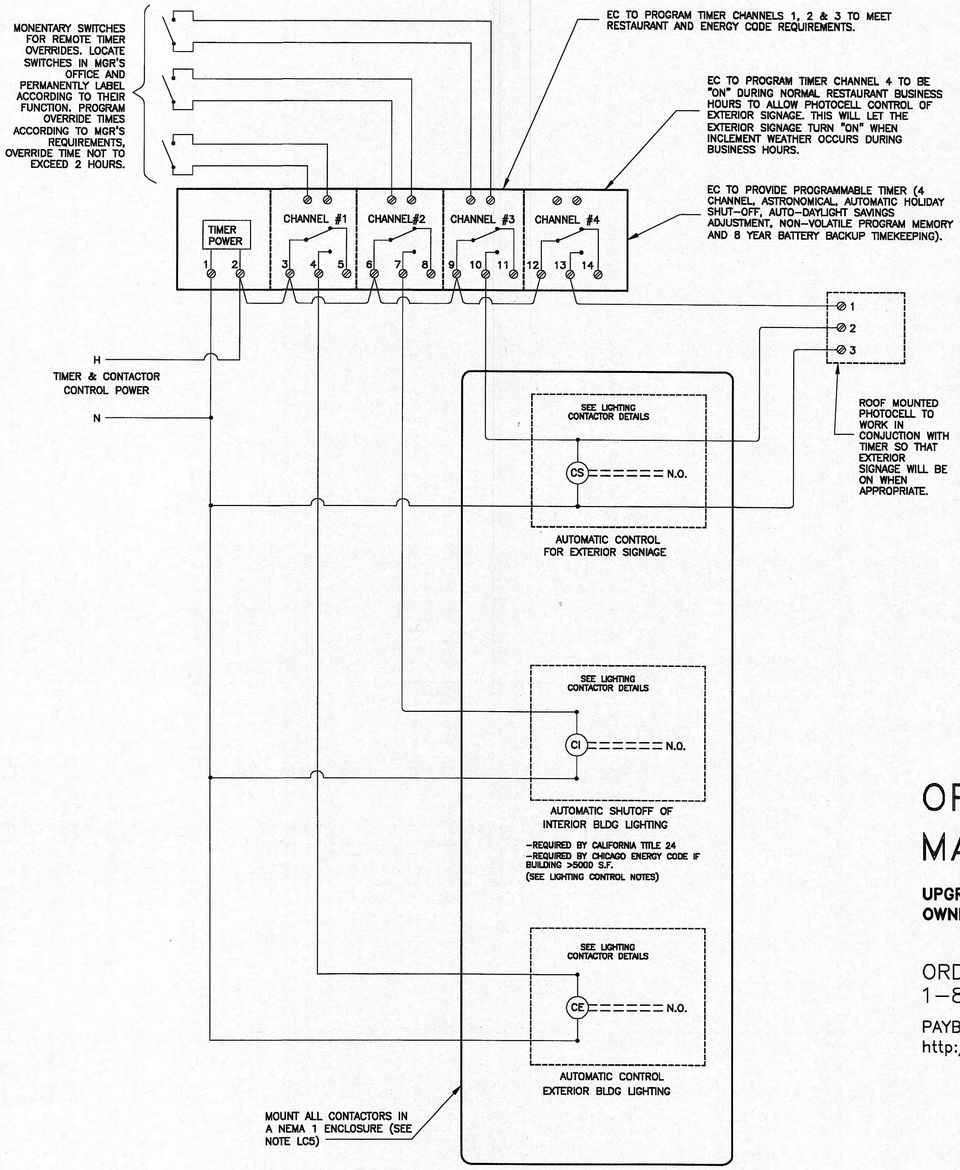
DRAWN BY: CAA
STD ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

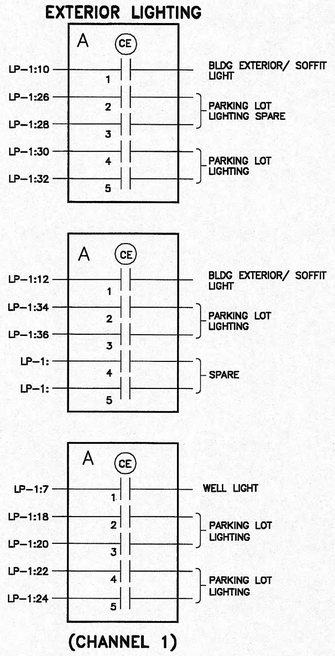
TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK BAR JOIST ROOF FRAMING CULTURED STONE ARCADES
SITE ID: 041–0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

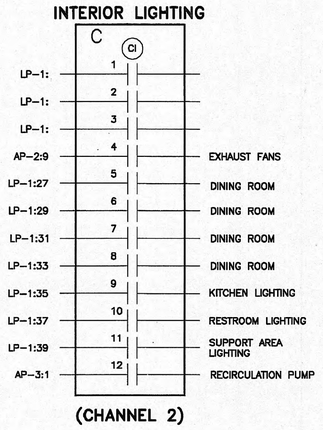
SHEET NO.: 041–0084–00–0
E4.0
WIRING DETAILS

K:\DIV\EAST\– RAL\041–0084–00–0 HARRIMAN\45114MS_E4–0.DWG 01–22–2009 15:29



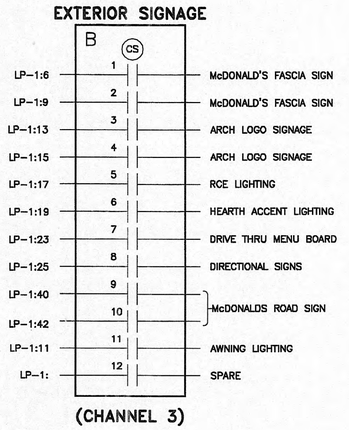
LIGHTING CONTROL DIAGRAM
(ASHRAE 90.1-1999 COMPLIANT)





C. EC TO PROVIDE CONTACTOR TO CONTROL INTERIOR FLUORSCENT & HID LIGHTS.
-ELECTRICALLY HELD CONTACTOR
-120V COIL
-12 N.O. CONTACTS
-20 OR 30 AMP HID RATED CONTACTS

A. EC TO PROVIDE CONTACTOR TO CONTROL EXTERIOR HID LIGHTS AND HID SIGNAGE (ROOF BEAMS).
-ELECTRICALLY HELD CONTACTOR
-120V COIL
-5 N.O. CONTACTS
-30 AMP HID RATED CONTACTS



B. EC TO PROVIDE CONTACTOR TO CONTROL EXTERIOR FLUORSCENT SIGNAGE.
-ELECTRICALLY HELD CONTACTOR
-120V COIL
-12 N.O. CONTACTS
-30 AMP RATED CONTACTS

OPTION 1

OPTIONAL LIGHTING CONTROL SYSTEM (INSTALL SYSTEM IN MANAGERS OFFICE IF REQUIRED BY ENERGY CODE OR OWNER OPERATOR)

LIGHTING CONTROL NOTES

LC1. CONTACTORS ARE SHOWN WITH TYPICAL LOADS AND CIRCUIT ASSIGNMENTS. LOADS, CIRCUIT ASSIGNMENTS AND NUMBER OF CONTACTORS MAY VARY BY RESTAURANT LOCATION. VERIFY EXACT REQUIREMENTS WITH SITE PLANS, ELECTRICAL PANEL SCHEDULES AND MCDONALD'S PROJECT MANAGER. EC SHALL MAKE ALL MODIFICATIONS AS REQUIRED. EC TO ATTAIN INFORMATION ON ANY ADDITIONAL ENERGY CODE REQUIREMENTS FROM LOCAL AUTHORITY.

LC2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, CONNECTIONS, TERMINATIONS, EQUIPMENT, RELAYS, SWITCHES, CABINETS, AUXILIARY CONTACTS, ETC. FOR A COMPLETE, FULLY OPERATIONAL AND CODE COMPLIANT LIGHTING CONTROL SYSTEM.

LC3. ALL COMPONENTS FOR THIS LIGHTING CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

LC4. ALL COMPONENTS SHALL BE UL LISTED AND LABELLED.

LC5. ALL CONTACTORS SHALL BE LOCATED IN A NEMA 1 ENCLOSURE WITH SCREW TYPE COVER MOUNTED DIRECTLY ABOVE LIGHTING PANEL OR SWITCHGEAR SO AS TO BE ACCESSIBLE.

LC6. ALL CONTACTORS SHALL BE RATED FOR 30 AMP LOADS UNLESS NOTED OTHERWISE.

LC7. COIL VOLTAGES FOR ALL CONTACTORS SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

LC8. THE CONTACTOR SHALL BE UL LISTED FOR A MINIMUM 10,000 AMPS RMS SYMMETRICAL INTERRUPTING CAPACITY FOR THE CONTACTOR SHORT CIRCUIT WITHSTAND RATING.

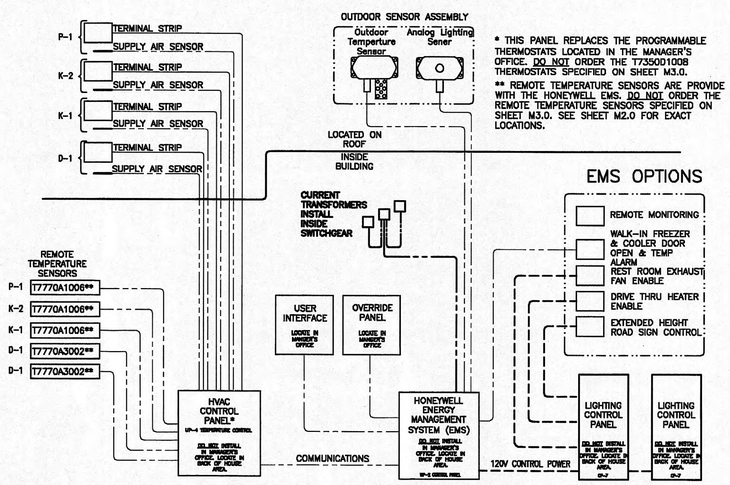
OPTION 2: HONEYWELL ENERGY MANAGEMENT SYSTEM (EMS)

UPGRADE OPTION (PROVIDE AND INSTALL IN MANAGER'S OFFICE IF REQUESTED BY OWNER/OPERATOR OR McOpCo).

ORDERING, INSTALLATION & TECHNICAL ASSISTANCE INFORMATION:
1-800-575-4841

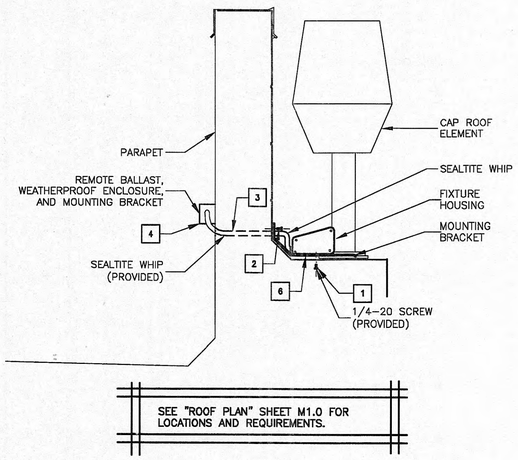
PAYBACK ESTIMATOR:
http://customer.honeywell.com/Business/Cultures/en-US/rc/McDonalds

REV. 3-5-07



* THIS PANEL REPLACES THE PROGRAMMABLE THERMOSTATS LOCATED IN THE MANAGER'S OFFICE. DO NOT ORDER THE T7350D1008 THERMOSTATS SPECIFIED ON SHEET M3.0.

** REMOTE TEMPERATURE SENSORS ARE PROVIDE WITH THE HONEYWELL EMS. DO NOT ORDER THE REMOTE TEMPERATURE SENSORS SPECIFIED ON SHEET M3.0. SEE SHEET M2.0 FOR EXACT LOCATIONS.



ROOF CAP ELEMENT LIGHT FIXTURE INSTALLATION INSTRUCTIONS

1. ATTACH MOUNTING BRACKETS TO FIXTURE USING FASTENERS PROVIDED AT BOTTOM OF FIXTURE DO NOT TIGHTEN FULLY AT THIS POINT. ATTACH TO BUILDING, ABOVE FINISHED ROOF.
2. PLACE FIXTURE AT DESIRED LOCATION AND ATTACH MOUNTING BRACKET TO THE PARAPET WALL USING FASTENERS PROVIDED BY CONTRACTOR.
3. HIDE PARAPET PENETRATION BEHIND McDONALD'S SIGN, AND SUPPORTS FOR CAP ROOF ELEMENT WHEN FEASIBLE. PENETRATE FLASHING ONLY WHEN NECESSARY TO CONCEAL PARAPET PENETRATION AND SEALTITE WHIP FROM CUSTOMER VIEW. PAINT SEALTITE WHIP TO MATCH COLOR OF PARAPET WHEN VISIBLE FROM GROUND. RUN SEALTITE WHIP ALONG TWO TIE BACKS FOR CAP ROOF ELEMENT TO MINIMIZE VISUAL EXPOSURE FOR THE CUSTOMER. PROVIDE AND INSTALL SEALANT TO APPROPRIATELY WEATHERPROOF ALL PENETRATIONS OF PARAPET.
4. RUN SEALTITE WHIP THROUGH THE BUILDING AND MOUNT THE BALLAST ENCLOSURE TO THE BACK SIDE OF THE WALL AT THIS LOCATION. MOUNT BALLAST ABOVE FINISHED ROOF.
5. MAKE NECESSARY ELECTRICAL CONNECTIONS.
6. SLIDE FIXTURE ALONG THE SLOT IN THE MOUNTING BRACKET TO ITS OPTIMAL POSITION WITH HIGH SIDE OF FIXTURE LOCATED AS SHOWN. TIGHTEN SCREWS AT BOTTOM OF FIXTURE SECURELY.

BY	DESCRIPTION	DATE	REV
			-

PREPARED BY:
Michael R. Silkas
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

PREPARED FOR:
McDonald's USA, LLC

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DRAWN BY	CAA
STD ISSUE DATE	JAN 2008
REVIEWED BY	MR/TW
DATE ISSUED	1/23/2009
SITE ID	041-0084
SITE ADDRESS	1705 South Roane Street, Harriman, TN 37748

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG
DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES

SHEET NO.
041-0084-00-0
E4.1
LIGHTING CONTROL

K:\DIV\EAST\~ RAL\041-0084-00-0 HARRIMAN\45114MS_E4-1.DWG 01-22-2009 15:29

MLO, AIC: NOTES D6, D7, & D8, Mounting: MDP, NEMA				PANEL LP-1						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH			
WATTS				BRKR	TRIP	CCT	CCT	TRIP	BRKR		WATTS		
				REQ	POLES	NO.	NO.	POLES	REQ	DESCRIPTION	A	B	C
				S	20A-1	1	2	20A-2	HID	Flag Pole	250		
	0			S	20A-1	3	4	I	I			250	
		0		S	20A-1	5	6	20A-1					0
490			Arcade well Lights	S	20A-1	7	8	20A-1	S	Menu Board & Pop	1412		
	0			S	20A-1	9	10	20A-1	HID	Exterior Wall/Soffit Lights		200	
		320	Awning lights	S	20A-1	11	12	20A-1	HID	Exterior Wall/Soffit Lights			1500
576			Arch Logo Signage	S	20A-1	13	14	20A-1		DCO In Road Sign Base	180		
	576		Arch Logo Signage	S	20A-1	15	16	20A-1	S,L	Security Lgt/Dr Alarm\CO2 sys.		784	
		400	Arcade RCE lighting	S	20A-1	17	18	30A-2	HID	Lot Lights			1564
0				S	20A-1	19	20	I	I		1664		
	720		Roof receptacles	G	20A-1	21	22	30A-2	HID	Lot Lights		1664	
		1164	Outdoor menu board & POP lighting	S	20A-1	23	24	I	I	I			1664
1164			Outdoor menu board & POP lighting	S	20A-1	25	26	30A-2	HID	Lot Lights	1664		
	224		Dining Area Lighting	S	20A-1	27	28	I	I			1664	
		660	Dining Area Lighting	S	20A-1	29	30	30A-2	HID	Lot Lights			1664
594			Dining Area Lighting	S	20A-1	31	32	I	I	I	1664		
	1350		Dining Area Lighting	S	20A-1	33	34	30A-2	HID	Lot Lights		1664	
		848	Kitchen Lighting	S	20A-1	35	36	I	I	I			1664
288			Restroom Lighting	S	20A-1	37	38	20A-1	S	Opt. Lighting Contr Pnl	360		
	737		Support Area Lighting	S	20A-1	39	40	30A-2	S	Mcd'S Road Sign		2496	
		1024	Night/Exit/Emerg. Ltg.	S,L	20A-1	41	42	I	I	I			2496
L = Handle Lock			G = GFCI Personnel protection							Total Connect	10306	12329	15068
S = Switch Duty Rated			HID = HID Rated							Connect Amps		105	Amps
H = Heating & Air Conditioning Rated										Demand Amps		130	Amps

MLO, AIC: NOTES D6, D7, & D8, Mounting: MDP, NEMA				PANEL AP-1						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH			
WATTS				BRKR	TRIP	CCT	CCT	TRIP	BRKR		WATTS		
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A	B	C
0					20A-1	1	2	20A-2		Coffee brewer	1903		
	120		wireless comm\ system (man of)		20A-1	3	4	I		I		1903	
		540	Dco gen purpose (mo)		20A-1	5	6	20A-1		ABS (phase c, presenter's booth)			1788
120			Safe - (mo) DCO Gen Purp		20A-1	7	8	20A-1	G	OJ dispenser/ coffee cream disp	1276		
	240		Remote order taker battery Pck		20A-1	9	10	20A-1	G	Refrigerator - wall/doorless (pr bo)		120	
		690	Merge/audio sys/drv mon(sa)		20A-1	11	12	20A-1	G	Automated beverage sys (abs, pb)			600
1020			Worktop Refrigerators	G	20A-1	13	14	20A-2		Coffee Brewer	1903		
	3328		Drv-thru window air unit (booth)		40A-2	15	16	I		I		1903	
		3328	Drv-thru window air unit (booth)		I	17	18	40A-3		Heat treat combo shake (fmt cntr)			4320
3328			Drv-thru window air unit (booth)		40A-2	19	20	I		I	4320		
	3328					21	22					4320	
		1524	Vat fryer exhast hd interlock (fw)		20A-1	23	24	20A-1	G	Blender/Coffee cream dispenser			456
0					20A-1	25	26	20A-1	G	OJ dispenser	1200		
	1080		Frozen fry dispenser (fry wall)	G	20A-1	27	28	20A-1	G	Smoothie machine		1800	
		1524	Vat fryer exhaust hood (fry wall)		20A-1	29	30	20A-1	G	Salad case full height (front count)			660
1884			Fry bagging station 36" (fry wall)	G	20A-1	31	32	20A-3	HACR	Ice machine remote condens (f co)	1272		
	492		Hand wash timer (fw/pres booth)	G	20A-1	33	34	I	I	I		1272	
		480	Gas Water Heater		20A-1	35	36	I	I	I			1272
132			Ice machine - 1000 lb (pres bo)		15A-1	37	38	20A-3	HACR	Ice machine remote cond (csh b)	1272		
	132		Ice mach - 1000 lb (self serve)		15A-1	39	40	I	I	I		1272	
		132	Ice mach - 1000 lb (self serve)		15A-1	41	42	I	I	I			1272
L = Handle Lock			G = GFCI Personnel protection							Total Connect	19630	21310	18586
S = Switch Duty Rated			HID = HID Rated							Connect Amps		165	Amps
H = Heating & Air Conditioning Rated										Demand Amps		120	Amps

MLO, AIC: NOTES D6, D7, & D8, Mounting: MDP, NEMA				PANEL AP-2						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH			
WATTS				BRKR	TRIP	CCT	CCT	TRIP	BRKR		WATTS		
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A	B	C
1272			Ice machine remote cond (cb)	HACR	20A-3	1	2	20A-1		Clean in place panel (sup area)	120		
	1272			I	I	3	4	20A-1	G	Air curtain - 48" (support area)		612	
		1272			I	5	6	20A-1		Dco - gen purpose			1440
480			Soda tower - cold plate(self serv)		20A-1	7	8	20A-3	G	Ice machine - 1200 LB	180		
	480		Janitor's closet		20A-1	9	10	20A-1				0	
		1440	Dco - gen purpose		20A-1	11	12	20A-1					0
960			UC - Refrigerator	G	20A-1	13	14	20A-1		Walk in cooler / freezer	1200		
	864		Bulk oil system (sup area)	G	20A-1	15	16	20A-1		Walk in cooler / freezer		1200	
		1596	Clm gril exhast hd interlock (gs)		20A-1	17	18	20A-2		Q'ing oven - P& S			1997
1164			SW/DW - meat freezers	G	20A-1	19	20	I		I	1997		
	1500		Marinator (fry wall)	G	20A-1	21	22	20A-1	G	Wall mount freezer unit - dw (gr s)		1200	
		0			20A-1	23	24	20A-1	G	Crew video/ dco muzak (closet)			100
180			Dco in trash corrall	G	20A-1	25	26	20A-1	G	Reach-in refrigerator bottled bev.	960		
	1200		Bulk oil sys - support area (sa)		20A-1	27	28	20A-2		Q'ing oven - P& S		1997	
		828	Bulk oil system (grill side)		20A-1	29	30	I		I			1997
1320			Washer		20A-1	31	32	20A-2		Trash compactor (trash corral)	1664		
	0				20A-1	33	34	I		I		1664	
		1632	Soda syst pack (support area)		20A-1	35	36	20A-2		Egg cooker - maunual (grill side)			1570
2880			Soda syst pack (support area)		30A-3	37	38	I		I	1570		
	2880			I	I	39	40	20A-1				0	
		2880			I	41	42	20A-1		I			0
L = Handle Lock			G = GFCI Personnel protection							Total Connect	15947	14869	16752
S = Switch Duty Rated			HID = HID Rated							Connect Amps		132	Amps
H = Heating & Air Conditioning Rated										Demand Amps		89	Amps

MLO, AIC: NOTES D6, D7, & D8, Mounting: MDP, NEMA				PANEL AP-3						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH			
WATTS				BRKR	TRP	CCT	CCT	TRIP-	BRKR		WATTS		
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A	B	C
180			Recirculation Pump		20A-1	1	2	30A-2		Rapid filet bun steamer (prep line)	1487		
						3	4	I				1487	
		1446	Club toaster (prep line)		30A-2	5	6	20A-3		DCO- Muzak satellite system			120
1446					I	7	8	30A-3		Biscuit oven (fry wall)	2616		
	1997		Q'ing oven (fry wall)		20A-2	9	10	I		I		2616	
		1997			I	11	12						2616
2880			Antunes toaster - pin & sleeve	*	30A-3	13	14	20A-1	L	Hand dryer (restroom)	2160		
	2880			I	I	15	16	20A-1	L	Hand dryer (restroom)		2160	
		2880		I	I	17	18	20A-1	L	Hand dryer (restroom)			2160
4690			Powersoak Sink		50A-2	19	20	20A-1	L	Hand dryer (restroom)	2160		
	4690					21	22	20A-1		Toilet Exhaust Fan		864	
		0			20A-1	23	24	30A-3		Biscuit oven			2616
720			Dining Room Ceiling DCO's	G	20A-1	25	26	I		I	2616		
	1800		Iced tea brewer	G	20A-1	27	28	I		I		2616	
		1800	Iced tea brewer	G	20A-1	29	30	20A-1		Mod. Prep table			840
1200			Reach-in freezer	G	20A-1	31	32	20A-1		Pass thru refrigerator	860		
	1200		Reach-in freezer	G	20A-1	33	34	20A-1	L	Hand dryer (crew restroom)		2160	
		1500	Ceiling heater (2 kW)	H	20A-2	35	36	20A-1		Toilet Exhaust Fan (crew restroom)			864
1500				H	I	37	38	20A-1		Biscuit Oven Exhaust Hood	732		
	1500		Ceiling heater (2 kW)	H	20A-2	39	40	20A-1				0	
		1500		H	I	41	42	20A-1					0
L = Handle Lock			G = GFCI Personnel protection							Total Connect	25247	25970	20338
S = Switch Duty Rated			HID = HID Rated							Connect Amps		199	Amps
H = Heating & Air Conditioning Rated										Demand Amps		135	Amps

* If a prince castle toaster is used, EC to coordinate correct circuit with KES supplied cordset.

MLO, AIC: NOTES D6, D7, & D8, Mounting: MDP, NEMA				PANEL AP-4						225A, 208Y/120 VAC, 3PH, 4W, CB TYPE: BL or BLH			
WATTS				BRKR	TRP	CCT	CCT	TRIP-	BRKR		WATTS		
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A	B	C
3100			Clamshell Grill (Clam Wall)	SHT	50A-3	1	2	50A-3	SHT	Clamshell Grill (Clam Wall)	3100		
	3100			I	I	3	4	I	I			3100	
		3100			I	5	6	I					3100
3100			Clamshell Grill (Clam Wall)	SHT	50A-3	7	8	50A-3	SHT	Clamshell Grill (Clam Wall)	3100		
	3100			I	I	9	10	I	I			3100	
		3100			I	11	12						3100
0					20A-1	13	14	20A-2		Coffee Brewer	1903		
	0				20A-1	15	16	I				1903	
		4920	Remote Condensing Unit	H*	50A-3	17	18	30A-2		Espresso Brewer			2246
4920					I	19	20	I			2246		
	4920					21	22	20A-1				0	
		0			20A-1	23	24	20A-1	G	Specialty Coffee Refrigerator			480
0					20A-1	25	26	20A-1			0		
	0				20A-1	27	28	20A-1				0	
		0			20A-1	29	30	20A-1					0
0					20A-1	31	32	20A-1			0		
	0				20A-1	33	34	20A-1				0	
		0			20A-1	35	36	20A-1					0
0					20A-1	37	38	20A-1			0		
	0				20A-1	39	40	20A-1				0	
		0			20A-1	41	42	20A-1					0
L = Handle Lock			G = GFCI Personnel protection							Total Connect	21469	19223	20046
S = Switch Duty Rated			HID = HID Rated							Connect Amps		169	Amps
H = Heating & Air Conditioning Rated										Demand Amps		110	Amps

* SEE ELECT SHTS FOR CONDUIT AND WIRE SIZE

MLO AIC: SEE NOTES D6, D7, & D8, Mounting: Flush				COMPUTER PANEL						120/208VAC, 1PH, 3W, CB TYPE: BL or BLH			
WATTS				BRKR	TRP	CCT	CCT	TRIP-	BRKR		WATTS		
A		C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A		C
100			Drive Thru Timer		20A-1	1	2	20A-1		Waypoint - wireless interactive server	0		
		450	Pos Prep-Kvs Monitor/Rec Prntr		20A-1	3	4	20A-1		Pos-Pc Hardware/ Front Counter, Rec Printer			1416
100			Cctv/Timer	G	20A-1	5	6	20A-1					
		1248	Pres Booth Pos-Coin Disp/Pos-Order,Booth/POS CCD Ol		20A-1	7	8	20A-1		Pos-Pc Hardware Presenter'S Booth / rec printer			888
500			Customer Order Display		20A-1	9	10	20A-1			0		
		1464	Pos-Office		20A-1	11	12	20A-1		Pos-Office			1812
0					20A-1	13	14	20A-1		COD #1, POS optical isolator	120		
		1560	Pos-Cat 5/Internet Srv		20A-1	15	16	20A-1		Pos Crew Room/Cashless			450
0					20A-1	17	18	20A-1		Optional COD #2, POS optical isolator	120		
L = Handle Lock			G = GFCI Personnel protection							Total Connect	940		9288
S = Switch Duty Rated			HID = HID Rated							Connect Amps		49	Amps
H = Heating & Air Conditioning Rated										Demand Amps		107	Amps

POS LOADS (THE POINT OF SALE COMPUTERS, MONITORS, COIN CHANGERS, PRINTERS, ETC...) SHALL BE INSTALLED ON PHASE "C". OTHER ELECTRONIC LOADS SHALL BE INSTALLED ON PHASE "A". SEE POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL ON THIS SHEET.
THE AUTOMATIC BEVERAGE SYSTEM (ABS) HAS A DATA LINE THAT CONNECTS TO THE POINT OF SALE COMPUTERS. THEREFORE, IT NEEDS TO BE POWERED FROM THE SAME POWER PHASE, "C", AS THE POS SYSTEM. VERIFY, OR CORRECT AS NECESSARY, THAT THE ABS CIRCUIT BREAKER IS ON THE SAME PHASE OF POWER AS THE POS SYSTEM IN ITS ORIGINAL SUBPANEL. DO NOT WIRE THE ABS INTO THE COMPUTER PANEL. PERMANENTLY MARK THE ABS CIRCUIT BREAKER CASE AS "PHASE C ONLY".

MCCB, AIC: NOTES D6, D7, & D8, Mounting: Free Standing, NEMA 1				PANEL MDP						208Y/120 VAC, 3PH, 4W			
WATTS				BRKR	TRP	CCT	CCT	TRP	BRKR		WATTS		
A	B	C	DESCRIPTION	REQ	PLS	NO.	NO.	PLS	REQ	DESCRIPTION	A	B	C
10308	12329	15068	Lighting Panel 1; LP-1			225A-3	1	2	225A-3		Appliance Panel; AP-1	19630	21310	18586
15947	14869	16752	Appliance Panel; AP-2			225A-3	3	4	225A-3		Appliance Panel; AP-3	23247	25970	20338
8485	12355	10898	KES Center Island Breaker Panel			125A-3	5	6	100A-2		Cp Panel	940	I	9288
9300	9300	9300	*Roof Top Unit; D-1	H*		90A-3	7	8	90A-3	H*	*Roof Top Unit; K-1	9300	9300	9300
2828	2828	2828	*Roof top unit; K-2	H*		30A-3	9	10	35A-3	H*	*Roof Top Unit; D-2	3492	3492	3492
0	0	0					11	12	225A-3		Appliance Panel; AP-4	21469	19223	20046
0	0	0					13	14	60A-3	SHT	Fry Vat	4680	4680	4680
4680	4680	4680	Fry Vat	SHT		60A-3	15	16	60A-3	SHT	Fry Vat	4680	4680	4680
4680	4680	4680	Fry Vat	SHT		60A-3	17	18	60A-3	SHT	Fry Vat	4680	4680	4680
4680	4680	4680	Fry Vat	SHT		60A-3	19	20	60A-3	SHT	Fry Vat	4680	4680	4680
* SEE ELECT SHTS FOR CONDUIT AND WIRE SIZE											Total Connect	159504	163536	168456
											Connect Amps		1365	Amps

DISTRIBUTION EQUIPMENT NOTES:

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

D2. THE EC/GC/AREA CONSTRUCTION MANAGER WHEN ORDERING PANELBOARDS, SHALL DETERMINE THE NUMBER OF SERVICE ENTRANCE CONDUCTORS, SIZE AND MATERIAL TYPE, AND SHALL PROVIDE THIS INFORMATION TO THE PANELBOARD SUPPLIER SO THAT THE APPROPRIATE LUGS CAN BE PROVIDED FROM THE FACTORY.

D3. ALUMINUM SERVICE ENTRANCE CONDUCTORS SHALL ONLY BE USED WHEN THEY ARE TERMINATED DIRECTLY TO THE LINE LUGS ON A C/T AND METERING CABINET, THE LINE LUGS OF A FUSIBLE DISCONNECT SWITCH OR TO THE LINE LUGS OF A MAIN LUG ONLY (6 HANDLE RULE) SERVICE ENTRANCE PANEL. ALUMINUM SERVICE ENTRANCE CONDUCTORS SHALL NOT BE TERMINATED TO THE LINE LUGS OF ANY MAIN BREAKER SINCE DOING SO WILL VIOLATE IT'S 100% UL RATING. IF ALUMINUM CONDUCTORS ARE USED AS PREVIOUSLY INDICATED THEY SHALL BE TERMINATED AS FOLLOWS, AND THE WIRE SIZE INCREASED DUE TO LOWER AMPACITY OF ALUMINUM. EXPOSED ALUMINUM CONDUCTOR STRANDS SHALL BE COATED WITH AN ANTI-OXIDANT IMMEDIATELY AFTER INSULATION IS STRIPPED AWAY. A COMPRESSION LUG SHALL BE PROPERLY INSTALLED ONTO THE EXPOSED ALUMINUM CONDUCTOR STRANDS, AND THAT COMPRESSION LUG SHALL THEN BE BOLTED TO THE TRANSFORMER TAPS AND SWITCHBOARD BUSS USING PROPERLY SIZED BOLTS, NUTS AND WASHERS. MERELY INSERTING ALUMINUM STRANDS UNDER A SCREW LUG SHALL NOT BE ACCEPTABLE.

D4. TWO OPTIONS ARE AVAILABLE FOR APPROVED TRANSIENT VOLTAGE SURGE SUPPRESSOR (TVSS) UNIT. THE PREFERRED IS AN INTEGRAL UNIT PROVIDED AND INSTALLED BY THE SWITCHBOARD MANUFACTURER. THE SECOND IS AN EXTERNALLY MOUNTED UNIT ALSO PROVIDED BY THE SWITCHBOARD MANUFACTURER. E.C. SHALL VERIFY WHICH TYPE IS TO BE UTILIZED WITH AREA CONSTRUCTION MANAGER PRIOR TO BIDS. IF TVSS UNIT IS NOT PROVIDED INTERGRAL WITH SWITCHBOARD, E.C. SHALL PROVIDE AND INSTALL AN APPROVED EXTERNALLY MOUNTED TVSS UNIT AND SHALL WIRE COMPLETE TO A 30A-3P CB IN PANEL MDP. TVSS UNIT SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES. THE LEAD LENGTHS OF THE TVSS UNIT SHALL BE KEPT AS SHORT AND STRAIGHT AS POSSIBLE AND UNIT SHALL BE MOUNTED AS CLOSE TO ELECTRICAL CONNECTION AS POSSIBLE TO AVOID EXCESS LENGTH. ORDER APPROVED UNITS AS SHOWN IN D5.

D5. APPROVED SWITCHBOARDS, PANEL, & TVSS SUPPLIER (IN ADDITION TO ORDERING SWITCHBOARD & PANELS ALSO ORDER TVSS) SUPPLIERS:

SIEMENS Energy and Automation TVSS:INTEGRAL PANEL SAFE SERIES, (208Y/120V, 3Φ) MCDONALDSORDERS.SEA@SIEMENS.COM PHONE: 800.624.3274 FAX: 678.297.7068 2340 W. LAKE ST, SUITE 200 ADDISON, IL 60101	SQUARE D VIA GRAYBAR 900 REGENCY DRIVE GLENDALE HEIGHTS, IL 60139	DUSTIN HOFFMAN OF GRAYBAR TEL: 630.671.6304 TVSS : INTEGRAL: I-LINE SERIES, (208Y/120V, 3 Φ)

D6. MAIN INCOMING METER / CURRENT TRANSFORMER CABINET, MAIN DISTRIBUTION PANEL MDP, SERVICE CABINET AND SWITCH SHALL BE BRACED FOR THE HIGHEST AVAILABLE FAULT CURRENT BUT NOT LESS THAN NEMA SYMMETRICAL RMS OF 65,000 AMPERES. CONTACT UTILITY/PM/GC/EC AS REQUIRED.

D7. BRANCH BREAKERS IN ALL LP, AP AND (CP IF USED) PANELS SHALL HAVE A NEMA SYMMETRICAL RMS RATING OF 10,000 AMPS. ALL CIRCUIT BREAKERS IN AP, LP AND CP PANELS SHALL BE SERIES RATED WITH THE CIRCUIT BREAKERS IN PANEL MDP SO THAT ALL CIRCUIT BREAKERS IN IN ALL BRANCH PANELBOARDS ARE PROTECTED AGAINST THE MAXIMUM FAULT CURRENT AVAILABLE AT THE MAIN SERVICE DISCONNECT. NO DESIGN CHANGES SHALL BE MADE TO THE DISTRIBUTION SYSTEM WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL ELECTRICAL ENGINEER OF RECORD. FOR A SERIES RATED SYSTEM USING PANEL BOARDS MANUFACTURED BY SIEMENS USE FULLY RATED MAIN BREAKERS (NXD8) AND SERIES RATED FXD8, ED4, ED6, AND BL SUB-BREAKERS. WHEN USING SQUARE-D PANELS USE A FULLY RATED MAIN BREAKER (SM-RGC) AS WELL AS OTHER FULLY RATED BREAKERS IN THE MDP (QG, FH, RGC) AND SERIES RATED BREAKERS (QO (B), QO (B) VH) IN THE SUB-BREAKERS.

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

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

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

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

D12. ALL CIRCUIT BREAKERS USED FOR HID TYPE FIXTURES SHALL BE HID RATED.

D13. ALL HVAC CIRCUIT BREAKERS SHALL BE HACR TYPE. SEE TABLE ON SHEET E4.0 FOR CONDUIT AND WIRE SIZE REQUIREMENTS.

D14. PANELBOARD SUPPLIER SHALL PROVIDE ENGRAVED PLASTIC LAMINATED LABELS TO IDENTIFY ALL PANELS. LABEL FOR COMPUTER PANEL SHALL READ "COMPUTER ONLY PANEL".

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

SEE SHEET E3.1 FOR GENERAL ELECTRICAL NOTES

BREAKER MODIFICATIONS:
GFI – PERSONNEL PROTECTION (5MA)
HID – HID & SWD RATED
HL – HANDLE LOCK
HACR – HACR RATED
SWD – SWITCH DUTY RATED
SHT – SHUNT TRIP

TOTAL BUILDING 208Y/120V, 3 PHASE, 4-WIRE GENERAL SERVICE POWER BASED ON 2005 NEC 220.88 FOR A "ALL ELECTRIC" NEW RESTAURANT.

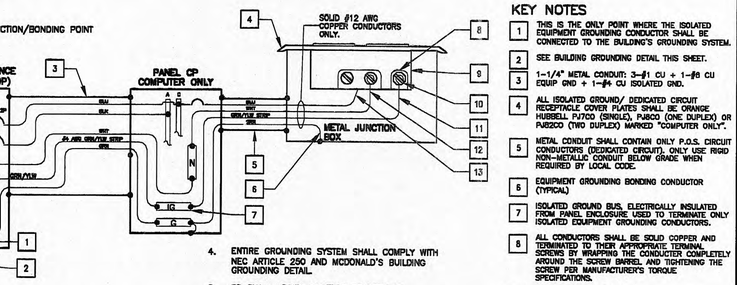
SPLIT UTILITIES CALC

	(kW)	(A)
1. Continuous Loads:	47	131
2. Kitchen Loads:	348	965
3. HVAC Loads:	97	268
4. Cooling:		0
5. Total (1+2+3+4):	491	1365
6. Base Value (See 220.88):	325	902
7. Amount Over Base Value (5-6):	166	462
8. Demand Factor:	0.45	
9. Adjusted Value (8*7):	75	208
10. Base Value (220.88):	262.5	729
11. Demand (9+10):	337	**937**

POS & COD ISOLATED GROUND/DEDICATED CIRCUIT

FOR A POS SYSTEM POWERED FROM A DEDICATED PANEL BASED ON THE 2005 NATIONAL ELECTRICAL CODE (NEC)
REVISION 4 – 4/12/02

● SHOWS CONNECTION/BONDING POINT



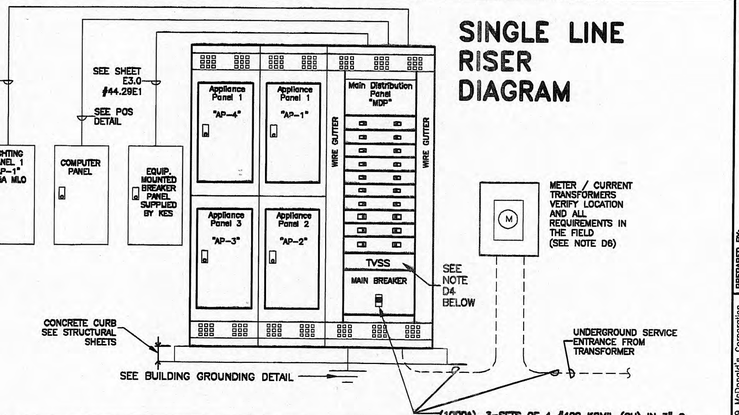
KEY NOTES

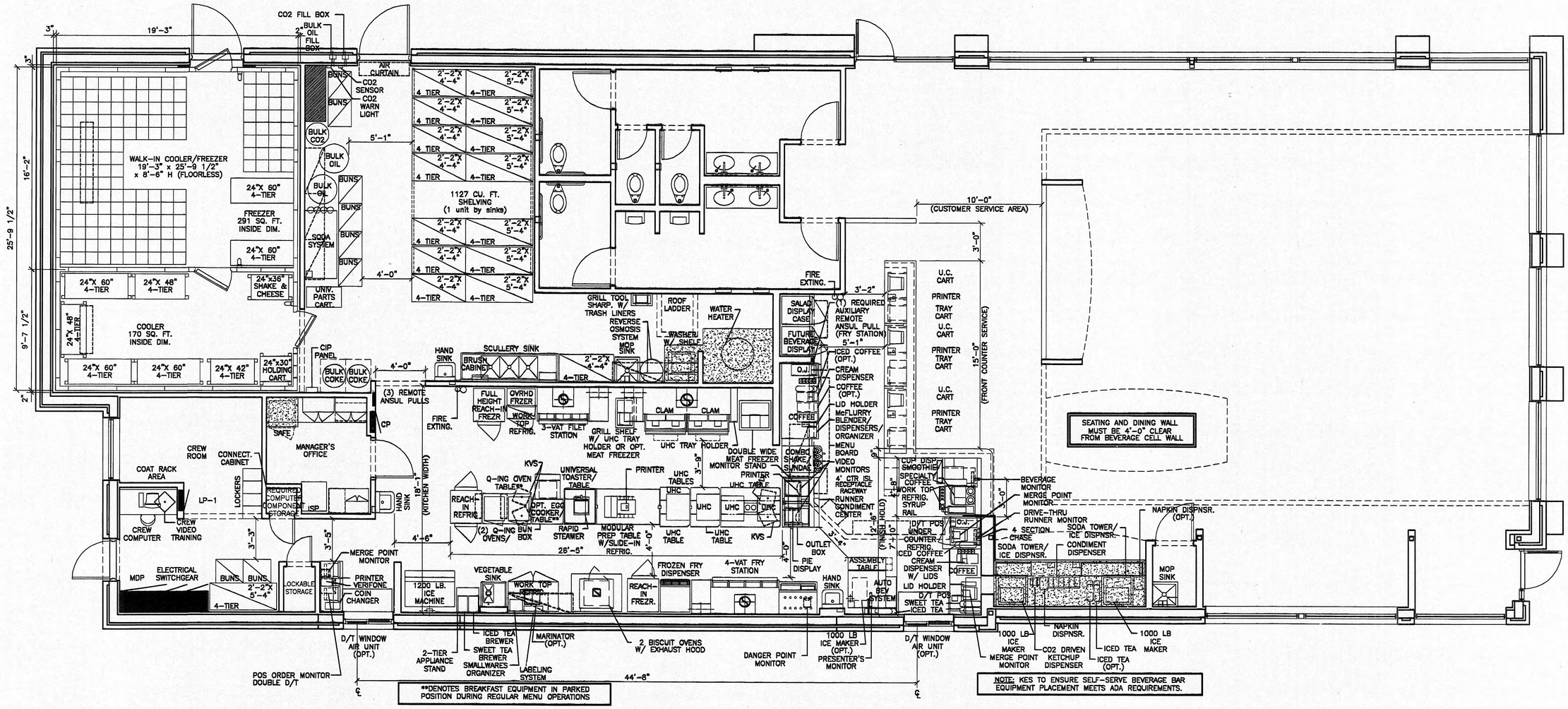
1. THIS IS THE ONLY POINT WHERE THE ISOLATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE CONNECTED TO THE BUILDING'S GROUNDING SYSTEM.
2. SEE BUILDING GROUNDING DETAIL THIS SHEET.
3. 1–1/4" METAL CONDUIT: 3–#1 CU + 1–#6 CU EQUIP GND + 1–#4 CU ISOLATED GND.
4. ALL ISOLATED GROUND/ DEDICATED CIRCUIT RECEPTACLE COVER PLATES SHALL BE ORANGE HUBBELL PJ700 (SINGLE), PJ702 (ONE DUPLEX) OR PJ822CO (TWO DUPLEX) MARKED "COMPUTER ONLY".
5. METAL CONDUIT SHALL CONTAIN ONLY P.O.S. CIRCUIT CONDUCTORS (DEDICATED CIRCUIT). ONLY USE RIGID NON-METALLIC CONDUIT BELOW GRADE WHEN REQUIRED BY LOCAL CODE.
6. EQUIPMENT GROUNDING BONDING CONDUCTOR (TYPICAL)
7. ISOLATED GROUND BUS, ELECTRICALLY INSULATED FROM PANEL ENCLOSURE USED TO TERMINATE ONLY ISOLATED EQUIPMENT GROUNDING CONDUCTORS.
8. ALL CONDUCTORS SHALL BE SOLID COPPER AND TERMINATED TO THEIR APPROPRIATE TERMINAL SCREWS BY WRAPPING THE CONDUCTER COMPLETELY AROUND THE SCREW BARREL AND TIGHTENING THE SCREW PER MANUFACTURER'S TORQUE SPECIFICATIONS.
9. ISOLATED GROUND RECEPTACLE HUBBELL–IG4700,IG4710,IG5262 OR IG5261. SEE ROUGH IN SCHEDULE FOR THE APPROPRIATE RECEPTACLE TO USE.
10. ISOLATED GREEN GROUND SCREW.
11. ISOLATED EQUIPMENT GROUNDING CONDUCTOR (GRN W/YLW STRIP)
12. NEUTRAL CONDUCTOR TERMINATED ON SILVER SCREW.
13. PHASE CONDUCTOR TERMINATED ON BRASS SCREW

NOTES

1. ALL P.O.S. EQUIPMENT (COMPUTERS,PRINTERS,MONITORS KVS, MODEM, HUB & COD) SHALL BE POWERED FROM THE PHASE "C" IN PANEL THE COMPUTER PANEL.
   ALL OTHER COMPUTER/DIGITAL EQUIPMENT SHALL BE POWERED FROM PHASE "A" IN THE COMPUTER PANEL.
2. ISOLATED GROUND INSTALLATION SHALL COMPLY WITH NEC 250.146(D).
3. EACH 20 AMP CIRCUIT SHALL HAVE IT'S OWN ISOLATED EQUIPMENT GROUNDING CONDUCTOR.
4. ENTIRE GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250 AND MCDONALD'S BUILDING GROUNDING DETAIL.
5. EC SHALL VERIFY CORRECT POLARITY AT RECEPTACLE.
6. EC SHALL VERIFY THAT SUBPANEL CP DOES NOT CONTAIN ANY ILLEGAL NEUTRAL TO GROUND BONDS.
7. PANEL CP SHALL ONLY BE USED TO POWER SENSITIVE ELECTRONIC EQUIPMENT, AS OUTLINED IN NOTE #1. IT SHALL NOT BE USED TO POWER ANY OTHER LOADS.
8. IT IS A SAFETY HAZARD AND AN NEC VIOLATION FOR THE POS SYSTEM TO HAVE ITS OWN INDEPENDENT GROUNDING ROD. IF AN INDEPENDENT GROUND ROD IS FOUND FOR THE POS SYSTEM, IT SHALL BE BONDED TO THE BUILDING GROUNDING SYSTEM.

SINGLE LINE RISER DIAGRAM


2–1/2"C W/#4+0 & 1#4 GROUND
SEE SHEET E3.0 #44.29E1
SEE



1 K1.0 KITCHEN COVER SHEET
1/4" = 1'-0"

K:\DIV\EAST\- RAL\041-0084-00-0 HARRIMAN\45114MS_K1-0.DWG 01-22-2009 15:30

REV	DATE	DESCRIPTION	BY

PREPARED BY:
Michael R. Silkas
Registered Engineer
2111 McDonald's Drive
Oak Brook, IL 60523

MICHAEL R. SILKAS
STATE OF TENNESSEE
1/23/09

PREPARED FOR:
McDonald's USA, LLC

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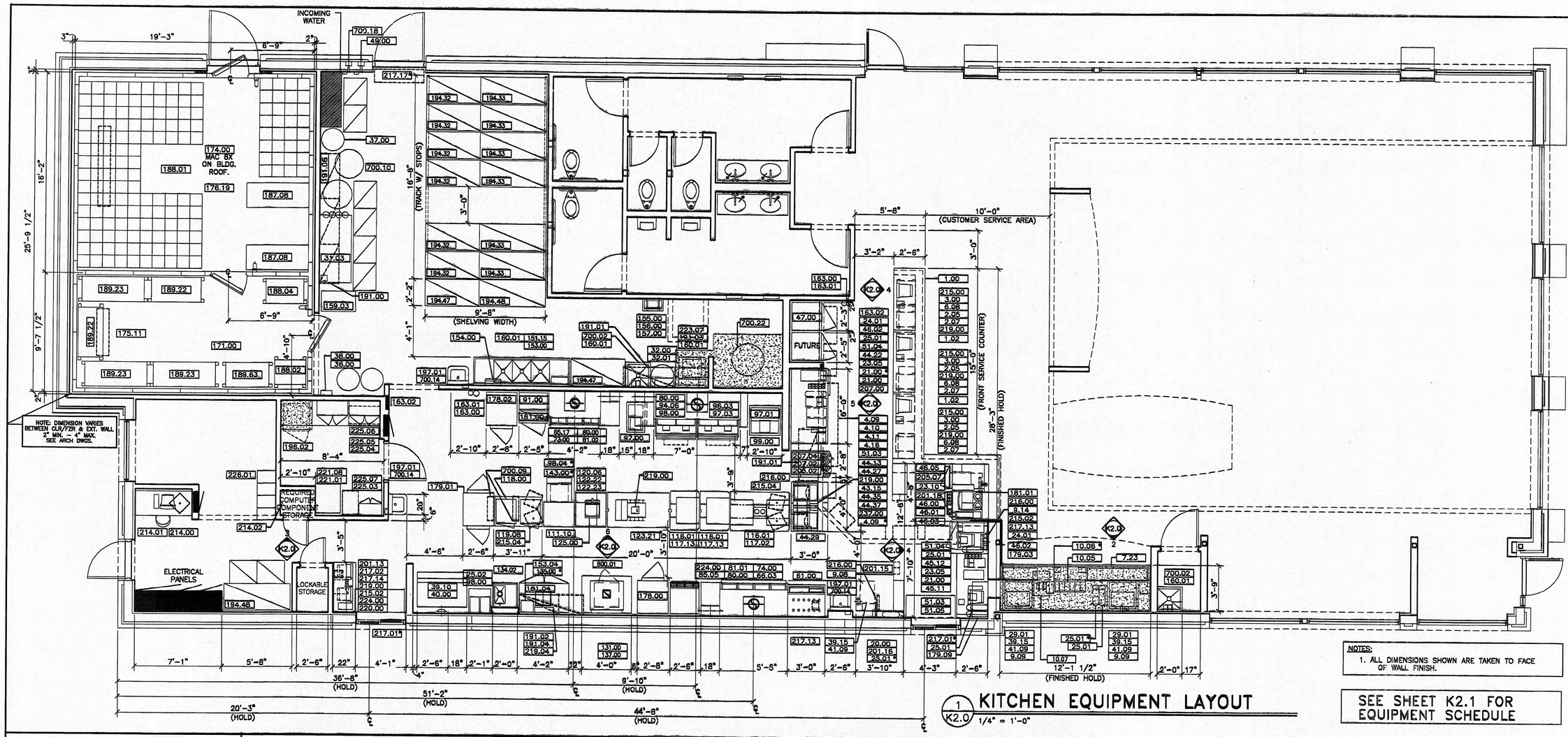
DRAWN BY MJN
STD ISSUE DATE JAN 2008
REVIEWED BY MR/TW
DATE ISSUED 1/23/2009

TITLE
2008 PREFERRED PROTOTYPE
45114+5R MASONRY/STEEL BLDG

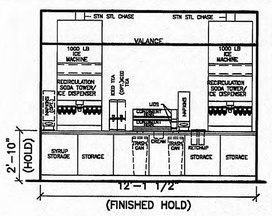
DESCRIPTION
8" CMU BEARING WALLS + 4" FACE BRICK
BAR JOIST ROOF FRAMING
CULTURED STONE ARCADES

SITE ID 041-0084
SITE ADDRESS 1705 South Roane Street, Harriman, TN 37748

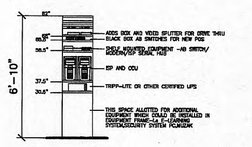
SHEET NO. 041-0084-00-0
K1.0
KITCHEN COVER SHT



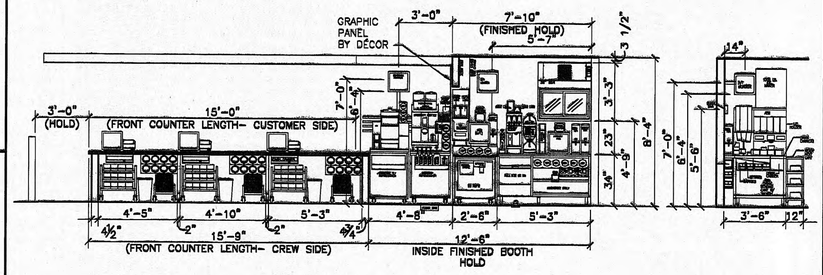
1 K2.0 KITCHEN EQUIPMENT LAYOUT
1/4" = 1'-0"



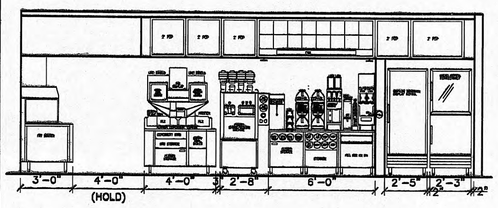
2 K2.0 SELF SERVE CABINET
1/4" = 1'-0"



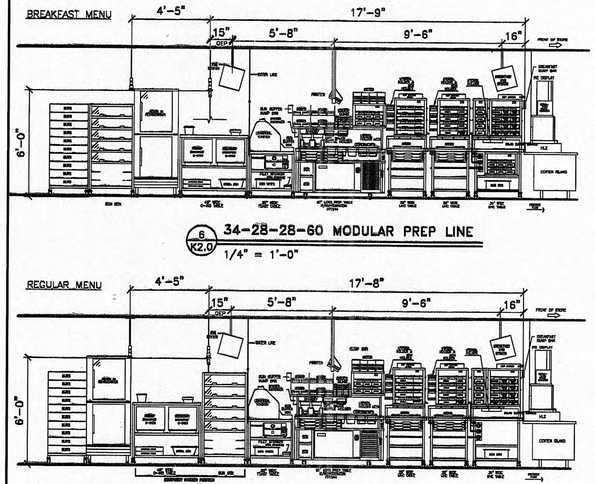
3 K2.0 COMPUTER CLOSET RACK
1/4" = 1'-0"



4 K2.0 7'-10" PRESENTOR'S BOOTH W/ 4'-8" COMBINED BEVERAGE CELL
1/4" = 1'-0"



5 K2.0 CENTER ISLAND ELEVATION
1/4" = 1'-0"



6 K2.0 34-28-28-60 MODULAR PREP LINE
1/4" = 1'-0"

6 K2.0 34-28-28-60 MODULAR PREP LINE
1/4" = 1'-0"

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PREPARED FOR: McDonald's USA, LLC

PREPARED BY:
Michael R. Silkas
Registered Engineer
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Oak Brook, IL 60523

REV	DATE	DESCRIPTION	BY

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DRAWN BY: MJN
STD ISSUE DATE: JAN 2008
REVIEWED BY: MR/TW
DATE ISSUED: 1/23/2009

TITLE: 2008 PREFERRED PROTOTYPE 45114+5R MASONRY/STEEL BLDG
DESCRIPTION: 8" CMU BEARING WALLS + 4" FACE BRICK; BAR JOIST ROOF FRAMING; CULTURED STONE ARCADES
SITE ID: 041-0084
SITE ADDRESS: 1705 South Roane Street, Harriman, TN 37748

SHEET NO.: K2.0
KITCHEN PLAN

041-0084-00-0

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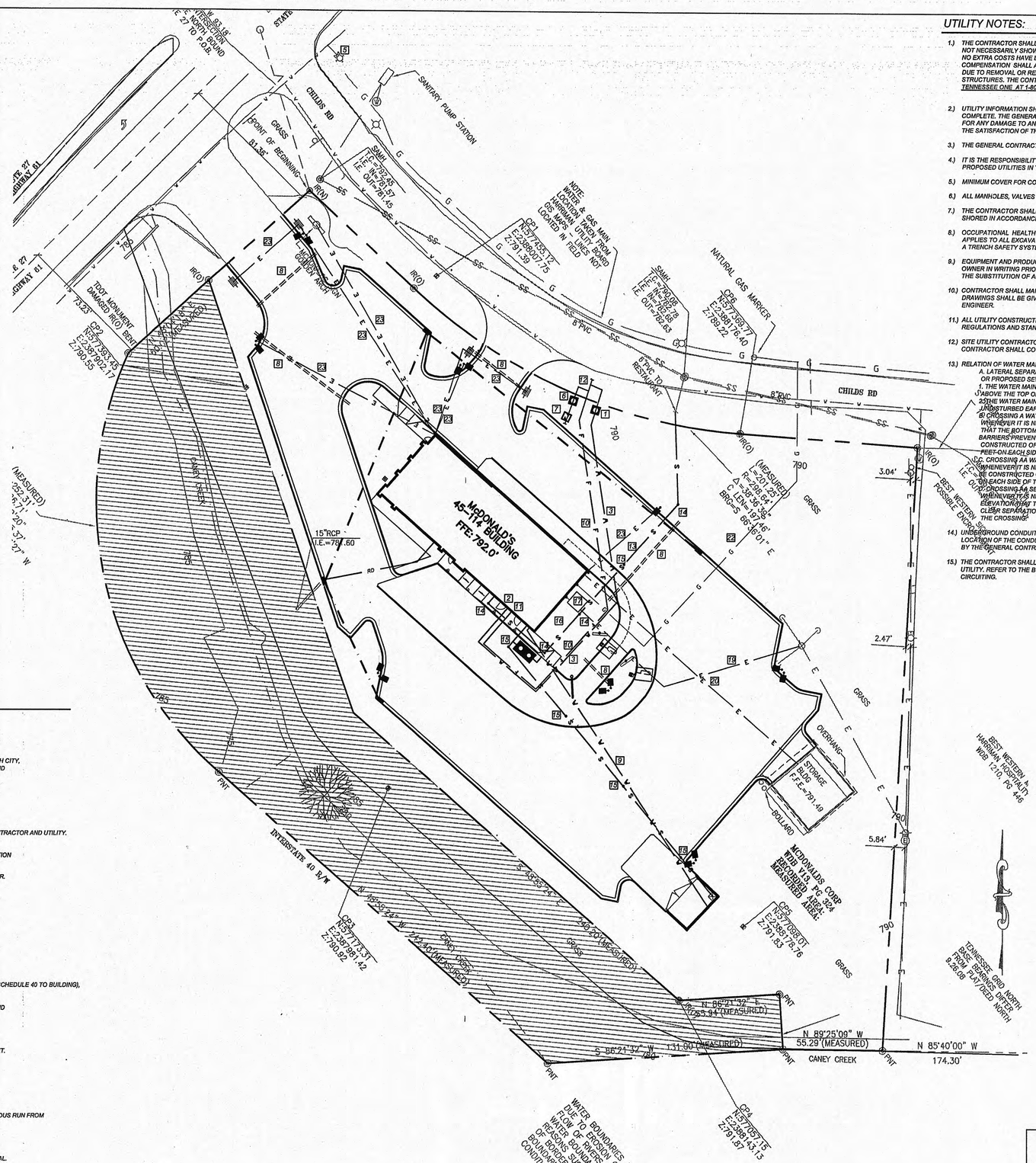

UTILITY NOTES:

1.) THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. THE CONTRACTOR(S) SHALL CONTACT TENNESSEE ONE AT 1-800-922-0983 FOR ASSISTANCE IN LOCATING EXISTING UTILITIES. CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.

2.) UTILITY INFORMATION SHOWN HEREON WAS OBTAINED FROM THE BEST AVAILABLE SOURCE AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATIONS OF EXISTING UTILITIES AND IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITIES, EITHER PUBLIC OR PRIVATE, SHOWN HEREON OR NOT SHOWN HEREON. ANY REPAIRS SHALL BE DONE TO THE SATISFACTION OF THE APPROPRIATE UTILITY COMPANY.

3.) THE GENERAL CONTRACTOR SHALL CONFIRM ALL NEW UTILITY TAP LOCATIONS WITH THE UTILITY OWNERS.

4.) IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE ACTUAL LOCATION AND AVAILABILITY OF ALL EXISTING AND PROPOSED UTILITIES IN THE FIELD PRIOR TO GROUND BREAKING.

5.) MINIMUM COVER FOR CONDUITS SHALL BE 36 INCHES UNLESS OTHERWISE SHOWN OR NOTED ON THESE PLANS.

6.) ALL MANHOLES, VALVES AND MONUMENT FRAMES SHALL BE SET TO FINISH GRADE AFTER PAVING.

7.) THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS. TRENCHES SHALL BE SHORED IN ACCORDANCE WITH OSHA.

8.) OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING 5 FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.

9.) EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED PRIOR APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONSTRUCTION SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO THE SUBSTITUTION OF ALTERNATE EQUIPMENT.

10.) CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.

11.) ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF HARRIMAN PUBLIC UTILITIES AND CROSS CONNECTION CONTROL REGULATIONS AND STANDARDS.

12.) SITE UTILITY CONTRACTOR TO PROVIDE WATER, SANITARY SEWER, AND ROOF DRAIN LEADERS TO WITHIN 5 FEET OF THE BUILDING. CONTRACTOR SHALL COORDINATE SITE PLAN CONNECTIONS WITH THE ARCHITECTURAL BUILDING PLANS.

13.) RELATION OF WATER MAINS TO SEWERS:
A. LATERAL SEPARATION OF SEWER AND WATER MAINS: WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10 FOOT LATERAL SEPARATION, IN WHICH CASE:
1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, OR
2. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER LINE WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND ABOVE THE TOP OF THE SEWER.
B. CROSSING A WATER MAIN OVER A SEWER MAIN:
WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION - IN WHICH CASE BOTH THE WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
C. CROSSING AA WATER MAIN UNDER A SEWER MAIN:
WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN BOTH THE WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
D. CROSSING AA SEWER LINE OVER OR UNDER A STORM DRAIN:
WHENEVER IT IS NECESSARY FOR A SEWER LINE TO CROSS A STORM DRAIN PIPE, THE SEWER LINES SHALL BE LAID AT SUCH AN ELEVATION THAT THE OUTSIDE OF THE SEWER LINE NEAREST TO THE OUTSIDE OF THE STORM DRAIN PIPE SHALL MAINTAIN A 12 INCH CLEAR SEPARATION DISTANCES, OR ENCASED IN EITHER CONCRETE OR DUCTILE IRON PIPE FOR AT LEAST 5 FEET ON EITHER SIDE OF THE CROSSING.

14.) UNDERGROUND CONDUITS TO SIGNS, LOT LIGHTS, ETC., SHALL BE PLACED IN GRASS OR LANDSCAPE AREAS WHENEVER POSSIBLE. THE LOCATION OF THE CONDUIT AS SHOWN ON THESE PLANS SHALL BE CONSIDERED TO BE SCHEMATIC WITH ACTUAL LOCATION TO BE VERIFIED BY THE GENERAL CONTRACTOR, PVC SHC. 40 SLEEVES SHALL BE INSTALLED FOR ALL CONDUIT CROSSING UNDER PAVED AREAS.

15.) THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE CONNECTION AT EXISTING UTILITY. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES AND CIRCUITING.

UTILITY KEYNOTES:

1. 1 1/2" DOMESTIC WATER METER, CONTRACTOR SHALL COORDINATE WITH UTILITY.
2. 2" DOMESTIC REDUCE PRESSURE BACKFLOW PREVENTER LOCATED WITHIN BUILDING.
3. 2" DOMESTIC TYPE "K" COPPER WATER SERVICE, CONTRACTOR SHALL COORDINATE WITH CITY, ALL WATER LINES SHALL HAVE A FINAL COVER DEPTH OF 3'-0" IN NON-TRAFFIC AREAS AND 4'-0" IN TRAFFIC AREAS UNLESS OTHERWISE NOTED.
4. 6" SADDLE WITH 2" CORPORATION STOP, CONTRACTOR SHALL COORDINATE WITH UTILITY.
5. EXISTING FIRE HYDRANT.
6. 1" IRRIGATION WATER METER, CONTRACTOR SHALL COORDINATE WITH IRRIGATION CONTRACTOR AND UTILITY.
7. 1" IRRIGATION BACKFLOW PREVENTER, CONTRACTOR SHALL COORDINATE WITH IRRIGATION CONTRACTOR AND UTILITY.
8. COORDINATE IRRIGATION CONNECTION AND SLEEVE SIZE WITH IRRIGATION CONTRACTOR.
9. HOT WATER TO CAN WASH DUMPSTER AREA (SEE PLUMBING PLANS).
10. 6" FIRE LINE, CONTRACTOR TO COORDINATE WITH SPRINKLER SYSTEM DESIGNER.
11. 6" FIRE DOUBLE DETECTOR CHECK BACKFLOW PREVENTER LOCATED INSIDE BUILDING, CONTRACTOR TO COORDINATE WITH SPRINKLER SYSTEM DESIGNER.
12. FIRE DEPARTMENT CONNECTION (FDC).
13. 4" PVC SANITARY SEWER LINE (SERVICES SHALL BE PVC SDR 35 WITHIN R/W, THEN PVC SCHEDULE 40 TO BUILDING), (BEDDING AND COVER PER SUPPLIER SPECIFICATIONS).
NOTE: 1/4"/FT MIMINUM SLOPE FOR 4" LINES AND 1/8"/FT MINIMUM SLOPE FOR 6" LINES.
ALL SEWER LINES SHALL HAVE A FINAL COVER DEPTH OF 4'-0" IN NON-TRAFFIC AREAS AND 5'-0" IN TRAFFIC AREAS UNLESS OTHERWISE NOTED.
14. SANITARY SEWER CLEANOUT PLACED AT 50' INTERVALS, SEE DETAIL SHEET.
15. TRAFFIC RATED SANITARY SEWER CLEANOUT PLACE AT 50' INTERVALS, SEE DETAIL SHEET.
16. 1500 GALLON GREASE TRAP, PER ARCHITECTURAL SHEETS.
17. TRANSFORMER PAD, CONTRACTOR SHALL COORDINATE LOCATION AND SIZE WITH ELECTRIC UTILITY.
18. POLE MOUNTED AREA LIGHT, SEE LIGHTING PLAN. ALL LOT LIGHT WIRES TO BE CONTINUOUS RUN FROM PANELS TO LOT LIGHTS WITH NO SPLICES, CONTRACTOR TO COODINATE.
19. UNDERGROUND ELECTRIC SERVICE, CONTRACTOR SHALL COORDINATE WITH ELECTRIC UTILITY.
20. INSTALL ONE - 1" PVC ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE TO TRASH CORRAL.
21. UNDERGROUND TELEPHONE SERVICE, CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY.
22. GAS SERVICE, CONTRACTOR SHALL COORDINATE WITH GAS COMPANY.
23. INSTALL ONE - 1" PVC ELECTRICAL CONDUIT FOR SIGNS AND LIGHT POLES

LEGEND

OU — OVERHEAD UTILITIES	SEWER CLEAN OUT
SANITARY SEWER	FIRE HYDRANT ASSEMBLY
E — UNDERGROUND ELECTRIC	SANITARY SEWER MANHOLE
T — TELEPHONE LINE	POLE MOUNTED AREA LIGHT
G — GAS LINE	WATER METER
W — WATER LINE	BACKFLOW PREVENTER
F — FIRE LINE	SIAMESE CONNECTION (FDC)
IRRIGATION SLEEVE (1) 4" PVC, COORDINATE WITH IRRIGATION CONTRACTOR	WATER VALVE
UTILITY POLE	GREASE TRAP

PARKING INFORMATION

TOTAL SPACES							
75 +RV PARKING	-	SPACES	-	X	-	@ 0 °
	3	HANDICAP SPACES	9'	X	19'	@ 60 °
	-	SPACES	-	X	-	@ 45 °
	72	SPACES	9'	X	19'	@ 60 °
	-	SPACES	-	X	-	@ 90 °

UTILITY INFORMATION

	SIZE TYPE LOCATION
SANITARY SEWER	6" LINE ON CHILDS ROAD
WATER	2" GALVANIZED LINE ALONG CHILDS ROAD
STORM SEWER	SITE DRAINS TO CANEY CREEK
ELECTRIC	OVERHEAD LINE ALONG CHILDS ROAD
GAS	LINA ALONG OTHER SIDE OF CHILDS ROAD

SURVEY INFORMATION

PREPARED BY: SURVEYOR
ADDRESS
ADDRESS
PHONE
DATE OF SURVEY:X DATE OF MAP: X

PLAN SCALE: 1" =30'

STREET ADDRESS
1705 SOUTH ROANE ST.

CITY: HARRIMAN
STATE: TN 37748

COUNTY: ROANE

TAX PARCEL NUMBER: 035LA002.00
LOCATION CODE NUMBER: 041-0084
CSD FILENAME: 08466

REV	DATE	DESCRIPTION	BY	ISSUED/REC
A	01-06-09	ISSUE FOR PERMIT	YAG	

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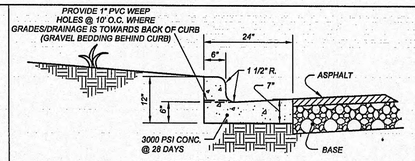
PLAN APPROVAL

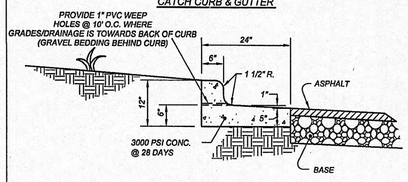
SIGNATURE (2 REQUIRED)	DATE
REGIONAL MGR.	
REGIONAL DEV. DIRECTOR	
REGIONAL CONSTRUCTION MGR.	
REGIONAL REAL ESTATE MGR.	
CO-SIGN SIGNATURES	
AREA CONSTRUCTION MGR.	
CONTRACTOR	

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

C-6
UTILITY PLAN



CATCH CURB & GUTTER

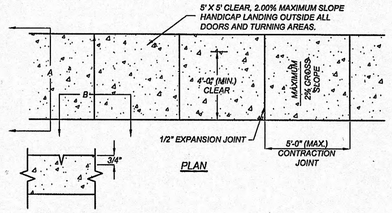


SPILL CURB & GUTTER

NOTES:

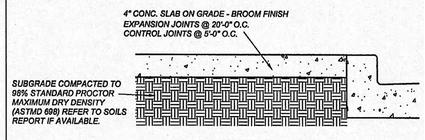
1. SCORE CURB / VALLEY GUTTER AT 15' O.C.
2. PROVIDE 1/2" EXPANSION JOINTS AT 90' O.C.
3. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS. (A 15' SPACING WILL BE ALLOWED WHEN A MACHINE IS USED.)
4. FINISH ALL CONCRETE WITH CURING COMPOUND.

2'-0" STANDARD CURB AND GUTTER



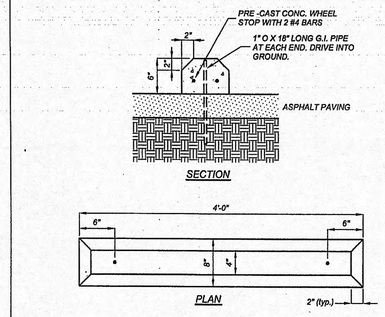
PLAN

SECTION B-B
CONTRACTION JOINT



SECTION A-A

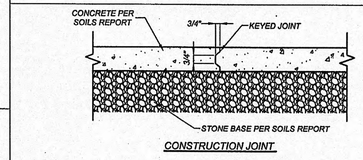
CONCRETE SIDEWALK



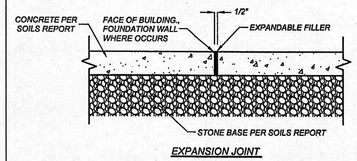
SECTION

PLAN

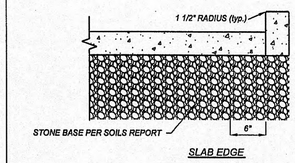
CONCRETE WHEEL STOP



CONSTRUCTION JOINT

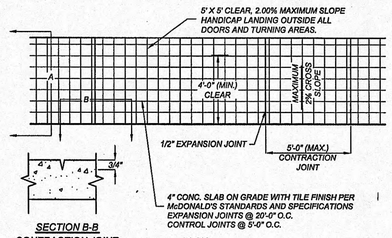


EXPANSION JOINT



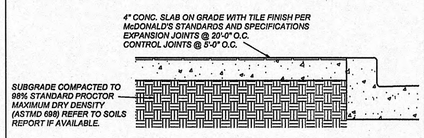
SLAB EDGE

CONCRETE SLAB DETAIL



SECTION B-B
CONTRACTION JOINT

PLAN



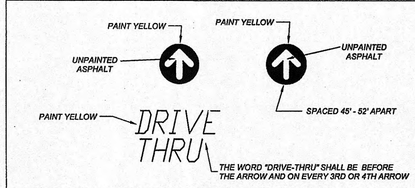
SECTION A-A

McDONALD'S CONCRETE SIDEWALK



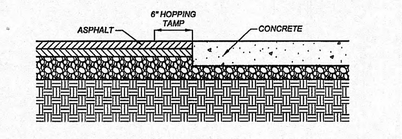
NOTE: MINIMUM FLOW RATE OF 100 SF PER GALLON (PAINT FEDERAL SPECIFICATION: TT-P-1952D).

McDONALD'S "THANK YOU"



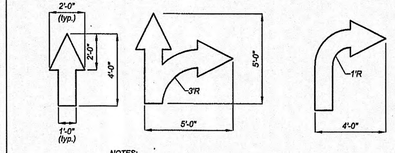
NOTE: MINIMUM FLOW RATE OF 100 SF PER GALLON (PAINT FEDERAL SPECIFICATION: TT-P-1952D).

McDONALD'S "DRIVE-THRU" DIRECTIONAL ARROW



NOTE: CONTRACTOR SHALL USE HOPPING TAMP ADJACENT TO CONCRETE.

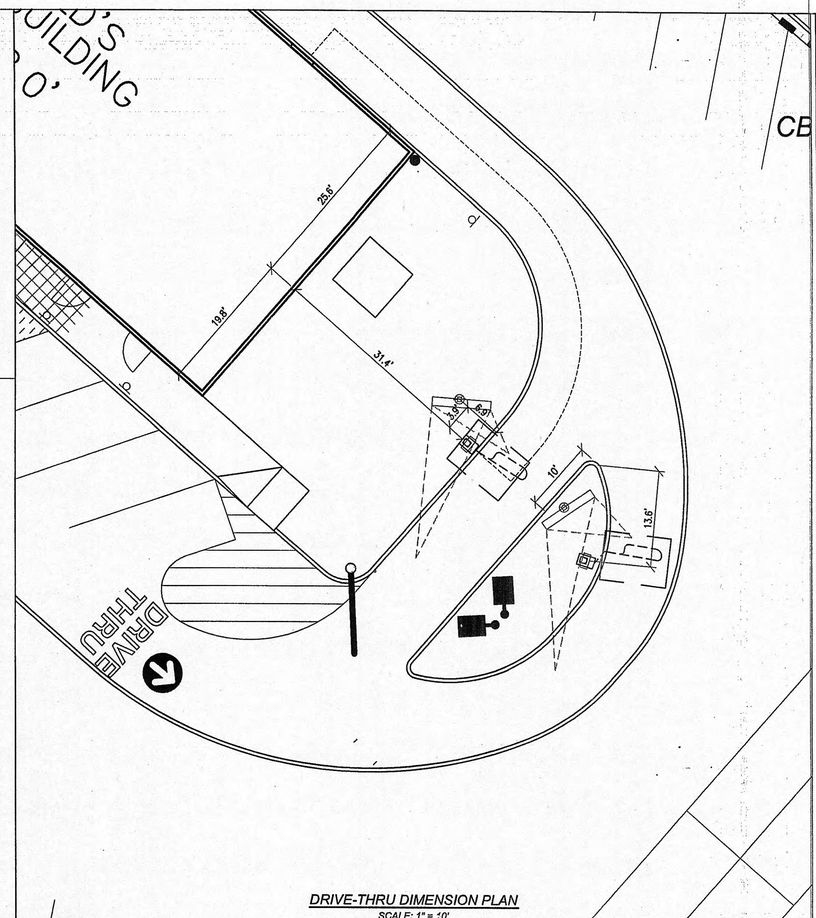
ASPHALT/CONCRETE TRANSITION



NOTES:

1. WHITE PAINT. MINIMUM FLOW RATE OF 100 SF PER GALLON (PAINT FEDERAL SPECIFICATION: TT-P-1952D).
2. 45° - 52° SPACING.
3. DO NOT REPLACE DRIVE-THRU ARROWS.

DIRECTIONAL ARROWS



DRIVE-THRU DIMENSION PLAN

SCALE: 1" = 10'

REV	DATE	DESCRIPTION	BY	ISSUE/REF
A	01-06-09	ISSUE FOR PERMIT	YAG	

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PLAN APPROVAL

	SIGNATURE (2 REQUIRED)	DATE
REGIONAL MGR.		
REGIONAL DEV. DIRECTOR		
REGIONAL CONSTRUCTION MGR.		
REGIONAL REAL ESTATE MGR.		
CO-SIGN SIGNATURES		
AREA CONSTRUCTION MGR.		
CONTRACTOR		

JOHN ANDREW CONNELLY — REGISTERED PROFESSIONAL ENGINEER — No. 0010105 — STATE OF TENNESSEE — 9/9/09

STREET ADDRESS: 1705 SOUTH ROANE ST.

CITY: HARRIMAN | STATE: TN 37748

COUNTY: ROANE

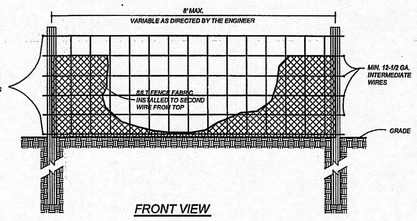
TAX PARCEL NUMBER: 035LA002.00

LOCATION CODE NUMBER: 041-0084

CSD FILENAME: 08466

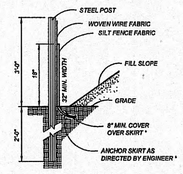
STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

C-7
DETAILS



FRONT VIEW

NOTE:
USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW



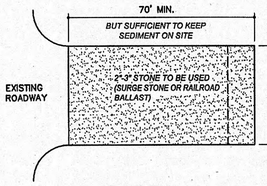
* FOR REPAIR OF SILT FENCE FAILURES, USE No. 57 WASHED STONE. FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN.

SIDE VIEW

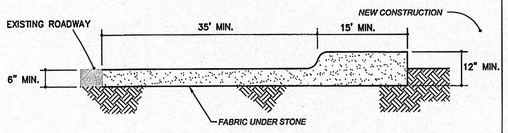
STANDARD TEMPORARY SILT FENCE

NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.

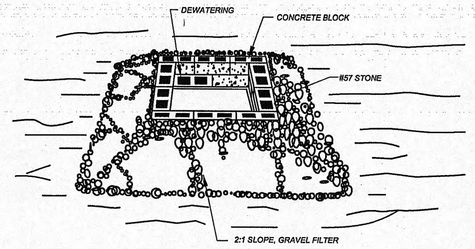


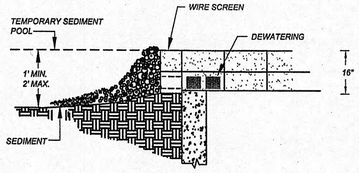
PLAN



CROSS SECTION

CONSTRUCTION ENTRANCE

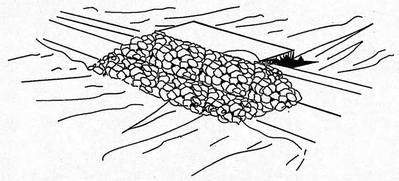


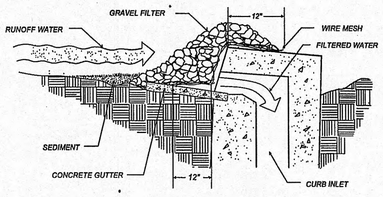


CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2 X 4 WOOD STUDS THROUGH BLOCK OPENINGS.
2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
3. USE CLEAN GRAVEL, 3/4- TO 1/2-INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.

BLOCK AND GRAVEL DROP INLET PROTECTION



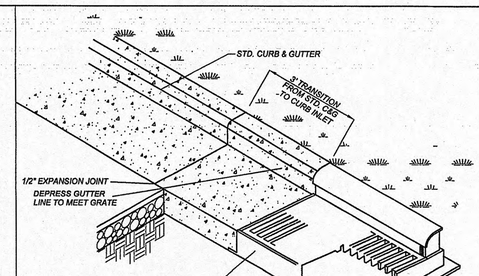


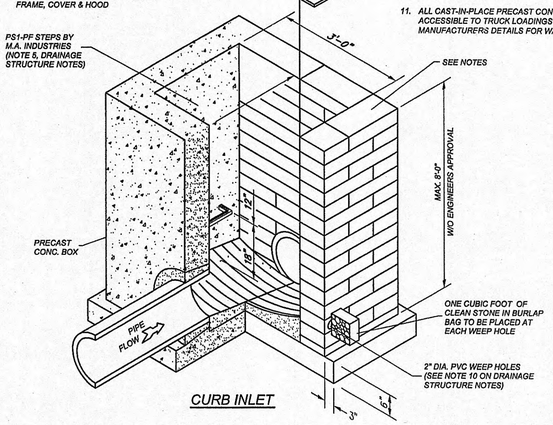
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE #57 WASHED STONE

INTERMEDIATE BLOCK & GRAVEL DROP INLET PROTECTION

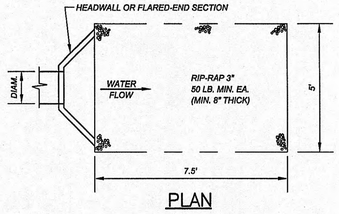




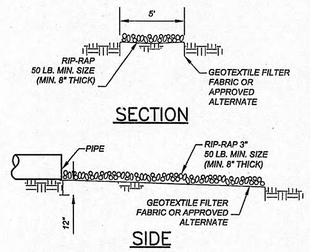
CURB INLET

DRAINAGE STRUCTURE NOTES

1. BOXES SHALL COMPLY WITH LOCAL JURISDICTIONAL STANDARDS AND SPECIFICATIONS.
2. ANY NONSTANDARD BOX IS TO BE DESIGNED BY A PROFESSIONAL ENGINEER.
3. THE MAXIMUM HEIGHT OF AN UN-REINFORCED MASONRY DRAINAGE STRUCTURE WITH 8" WALLS SHALL BE LIMITED TO 8'-0" FROM INVERT OF THE OUTLET PIPE TO THE TOP OF THE CASTING. DEPTHS GREATER THAN 8'-0" SHALL HAVE WALLS 12" THICK. BASINS OVER 12" IN TOTAL DEPTH SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER. FOUR INCH WALLS ARE NOT ALLOWED ON DRAINAGE STRUCTURES. BOTTOM SLAB ON STRUCTURES SHALL BE REINFORCED WHEN BOX DEPTHS EXCEEDS 8 FT.
4. STEPS ARE TO BE PROVIDED ON ALL BASINS DEEPER THAN 42".
5. STEPS ARE TO BE PS1-PF AS MANUFACTURED BY M.A. INDUSTRIES OR AN APPROVED EQUAL. LOCATE ON NON-PIPE WALLS.
6. MORTAR IN MASONRY BOXES IS TO BE TYPE M.
7. CLAY BRICK STRUCTURES ARE NOT ALLOWED.
8. CONCRETE PIPE IS TO BE MINIMUM CLASS III.
9. CONCRETE BUILDING BRICK IS TO MEET ASTM C-55, GRADE N, TYPE 1.
10. BASINS LOCATED IN WET AREAS, OR AS OTHERWISE REQUIRED BY THE TOWN ENGINEER, SHALL HAVE WEEP HOLES AS SHOWN ON DETAILS.
11. ALL CAST-IN-PLACE PRECAST CONCRETE DRAINAGE STRUCTURES LOCATED IN PAVED AREAS ACCESSIBLE TO TRUCK LOADINGS TO BE DESIGNED TO MEET AASHTO HS 20-44 LOADING. SEE MANUFACTURERS DETAILS FOR WALL, TOP AND BOTTOM THICKNESS.



PLAN



RIP RAP PLACEMENT DETAIL

NTS

REV	DATE	DESCRIPTION	BY	ISSUE/RFP

BRITT PETERS AND ASSOCIATES INC.
consulting engineers

550 S. Main Street
Suite 301
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McDonald's

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OFFICE: RALEIGH REGION
ADDRESS: 4901 SIX FORKS ROAD - SUITE 200 - RALEIGH, N.C. 27609

PLAN APPROVAL

	SIGNATURE (2 REQUIRED)	DATE
REGIONAL MGR.		
REGIONAL DEV. DIRECTOR		
REGIONAL CONSTRUCTION MGR.		
REGIONAL REAL ESTATE MGR.		
CO-SIGN SIGNATURES		
AREA CONSTRUCTION MGR.		
CONTRACTOR		

STREET ADDRESS: 1705 SOUTH ROANE ST.

CITY: HARRIMAN | STATE: TN 37748

COUNTY: ROANE

TAX PARCEL NUMBER: 035LA002.00 | LOCATION CODE NUMBER: 041-0084

CSD FILENAME: 08466

JOSEPH ANDREW CONN — LICENSED ENGINEER — No. 0010705 — STATE OF TENNESSEE — 1/9/07

STATUS	DATE	BY
FINAL	-	-
PLAN CHECKED	-	-
AS-BUILT	-	-

C-8
DETAILS