

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 MARK NECESSARY DIMENSIONAL ALLOWANCES. ALL DIMENSIONS SHOWN ARE TO CENTER LINE OF OUTLET BOX AND/OR RECEPTACLE UNLESS NOTED OTHERWISE.
- M3. ALL 1-BONES, BOSS, 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. ALL 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 1-BONES. ADDITIONALLY, EC SHALL PROVIDE AND INSTALL ORANGE NYLON COVER PLATES MARKED "COMPUTER ONLY" ON ALL ISOLATED GROUND/DEDICATED CIRCUIT RECEPTACLES. PURCHASE P360 (ONE DUPLEX) OR P362X0 (TWO DUPLEX) FROM HUBBELL.
- M6. ROUGH-IN'S 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 WITH ALL OPTIONAL ROUGH-IN'S AS REQUIRED.
- 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 STUD-UP LOCATIONS.
- M8. CEILING MOUNTED ECONOMY GEP BOX IS FURNISHED BY MCDONALD'S, AND INSTALLED BY THE GC. CORO AND PLUG SET FURNISHED BY KES INSTALLED BY THE EC.
- M9. FOR GRILLS, FRIGERS, AND ANVIL SYSTEMS, EC SHALL EXTEND CONDUIT AND CONDUCTORS DOWN CHASE OR DOWN TO TERMINAL BLOCK MOUNTED ON EQUIPMENT AND MAKE FINAL CONNECTIONS TO TERMINAL BLOCKS.
- M10. ALL HOLES IN THE FRONT COUNTER FOR THE POS CORBS 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/DUAL CONNECTIONS SHALL NOT BE USED.
- M12. BORN AND HEATCRAFT PROVIDES AND REQUIRES THE INSTALLATION OF 20BY 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 CORBS ARE FURNISHED WITH KITCHEN APPLIANCES. THE EC SHALL CONNECT CORB 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 BEING 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 CIRCUIT CONDUCTORS. THE SECOND METHOD SHALL BE THE EQUIPMENT GROUNDING CONDUCTOR INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL HAVE ONE END PROPERLY TERMINATED AT THE EQUIPMENT AND THE OTHER END AT THE GROUNDING CONTACT OF A GROUNDING RECEPTACLE AND THE OTHER END AT THE JUNCTION BOX OR METALLIC CONDUIT THAT IS CONNECTED TO AND TERMINATED IN FITTINGS LISTED FOR GROUNDING PER 2005 NEC 250.118. BOTH GROUNDING METHODS ARE REQUIRED IN A MCDONALD'S RESTAURANT. 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 SYSTEMS SHALL EXCEED THOSE GIVEN BY THE NEC. THE EC SHALL PROVIDE A BONDING BRIDGE BETWEEN ALL METALLIC AS WELL AS NON-METALLIC STRAPINGS.
- G3. EC SHALL REFER TO "POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL, SHEET E4.2, FOR REQUIRED INTERNAL WIRING OF COMPUTER PANEL OR
- G4. METAL RACKWAYS CONTAINING A GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY THE 2005 NEC SECTION 250.64(E).

CONDUIT AND WIRE:

- V1. 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, THE ENT (SHUNT-100E).
- V2. CONDUIT RUNS MAY BE COMBINED EXCEPT WHERE ISOLATED GROUNDS ARE USED. IF CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS ALL HOME RUNS SHALL BE SIZED BASED ON DELETED CONDUCTOR AMPACITIES AND INCREASE CONDUIT AND WIRE SIZE AS REQUIRED BY THE 2005 NEC SECTION 310.15.
- V3. CONDUIT SHALL HAVE A MAXIMUM OF 4 BENDS WITHOUT A JUNCTION BOX TO PREVENT DAMAGE TO CABLE DURING PULLING. THE EC SHALL PING/AL #12 PULL WIRE AT EACH END FOR INSTALLER TO PULL CABLE. ALL LOW VOLTAGE CONDUIT STUD-UPS SHALL BE PROVIDED WITH A BUSHING.
- V4. 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, STRANDED COPPER.
- V5. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER.
- V6. 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. CONCEALED: RMC, IMC, FIM, RMC, IMC
- 4. BELOW GRADE, GROUNDED: RMC, IMC
- 5. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FIM, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
- 6. BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR 4.
- 7. BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR 4.
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UTILITIES:

- U1. INCINERATION SERVICE SHALL BE 20BY/20V, 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 INCINERATION 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.

PROVIDE CONCRETE PAD IF TRANSFORMER IS LOCATED ON GRADE AND PRIMARY SERVICE TO PANEL WIP AS PER LOCAL UTILITY REQUIREMENTS.

- U4. THE EC/PROJECT MANAGER SHALL OBTAIN AVAILABLE SHORT CIRCUIT CURRENT FROM THE LOCAL UTILITY COMPANY. THE EC/PROJECT MANAGER SHALL ADVISE IN WRITING, FROM SUPPLIER THE UTILITY LETTER THE AVAILABLE AMOUNT OF FAULT CURRENT. THE EQUIPMENT SHALL BE APPROPRIATE ELECTRICAL RATINGS WHICH ARE EQUAL TO OR GREATER THAN THE AVAILABLE AMOUNT OF FAULT CURRENT AT THE SITE.
- U5. EC AND PM, 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) 3/4" CONDUITS FROM THE TELEPHONE PANEL/BOX UP TO ABOVE THE CEILING FOR FUTURE 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 SYSTEMS. FOR THIS SITE, THE REMAINING UNUSED TELEPHONE CONDUIT PAIRS SHALL BE SEPARATED FROM THE USED PAIRS AND THE UNUSED PAIRS SHALL BE GROUNDING AS SHOWN IN MCDONALD'S BUILDING ELECTRICAL GROUNDING DETAIL.
- U6. EC SHALL VERIFY WITH PM IF OPTIMAL PAYPHONE WILL BE INCLUDED AT THIS SITE. IF EC SHALL VERIFY WITH PM IF OPTIMAL PAYPHONE WILL BE INCLUDED AT THIS SITE. IF AT A HEIGHT THAT WILL ALLOW THE PAYPHONE TO COMPLY WITH ALL LOCAL AND ADA REQUIREMENTS. TYPICAL PAYPHONE ELECTRICAL ROUGH-IN'S CONSIST OF: (1) TO BE VERIFIED WITH LOCAL PROVIDER) + ADDITIONAL PHONE LINE WITH A 3/4" CONDUIT UP TO ABOVE THE CEILING (2) 1/2" CONDUIT FROM THE TELEPHONE PANEL/BOX TO THE LOCATION OF THE PAYPHONE. (3) AVAILABLE CIRCUIT AT PANEL. INCLUDE ALL PHONE CIRCUIT SYSTEMS IN THE BASE BID.

LIGHTING:

- L1. PROVIDE A WEATHERPROOF JUNCTION BOX IN PARAPET FOR FASCO 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 TRUSS (FOR THE USE OF JUNCTION BOX). THE JUNCTION BOX SHALL BE INSTALLED PROPERLY. LOCAL LIGHTING COORDINATE INSTALLATION MANAGER SEE LIGHT FIXTURE INSTALLATION INSTRUCTIONS FOR REQUIREMENTS REGARDING MOUNTING BRACKETS FOR USE IN CHANNEL TRUSSES.
- 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 INSTALLATION OF FIXTURES (S). EC SHALL IMMEDIATELY NOTIFY THE GC BEFORE THE INSTALLATION OF FIXTURES (S) TO CORRECT THE DISCREPANCY.
- L4. IF P-CORR GASH REGISTER SYSTEM IS INSTALLED, EC SHALL RELOCATE FIXTURES ABOVE FRONT COUNTER TO PROVIDE CLEARANCE FOR REGISTER SYSTEMS. EC SHALL INSTALL CABLE WITHIN THE REGISTER SYSTEM. REGISTER SYSTEMS SHALL BE RELOCATED TO BE WITHIN DISCONNECTING CABLE WITHIN THE REGISTER SYSTEM.
- L5. EC SHALL INSTALL ALL CANOPY LIGHTING FIXTURES CENTERED UNDER AWNING.
- L6. THE USE OF "MC" CABLE IN LENGTHS OF 6 FEET OR LESS (WHERE PERMITTED BY LOCAL CODES) SHALL BE ALLOWED FOR WIRING TO THE LIGHTING FIXTURES. "TOMER" 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 SIGNAL 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 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 HID LIGHTING FIXTURES AND MAKE ANY NECESSARY CORRECTIONS PRIOR TO INSTALLATION.

TEMPERATURE SENSORS:

- T1. REMOVE TEMPERATURE SENSORS. EC SHALL PROVIDE 1/2" CONDUIT FROM JUNCTION BOX ABOVE CEILING DOWN TO SENSOR MOUNTED AT 5' AFF.
- T2. SEE DETAIL ON SHEET M10. SET SHEET M10 FOR SENSOR MOUNTING DETAIL. LOCATION OF WALL MOUNTED TEMPERATURE SENSORS ARE SHOWN ON SHEET M20 AND E20.
- T3. WHEN WIRING FOR PROGRAMMABLE THERMOSTATS AND REMOVE SENSORS IS NOT IN A CONDUIT, THE OVER FLUORESCENT BALLASTS, POWER BOXES OR IN A CONDUIT WITH THE 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 x 4 BOX WITH A 3/4" CONDUIT STUD-UP WITH A BUSHING INTO ACCESSIBLE CEILING SPACE.

TOUCHLESS FAUCETS AND FLUSH VALVES (OPTIONAL):

- P1. 120V/24VAC, 50VA CONTROL TRANSFORMER FOR SENSOR OPERATED FLUSHVALVES. EC SHALL PROVIDE 1/2" CONDUIT FROM JUNCTION BOX TO TRANSFORMER. 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 AND FULLY OPERATIONAL. EC SHALL PROVIDE 1/2" CONDUIT FROM JUNCTION BOX TO EACH FLUSH VALVE. EC SHALL COORDINATE WITH THE PLUMBING CONTRACTOR AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS TO INSURE PROPER OPERATION.
- P3. EC SHALL PROVIDE A GROUND 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.

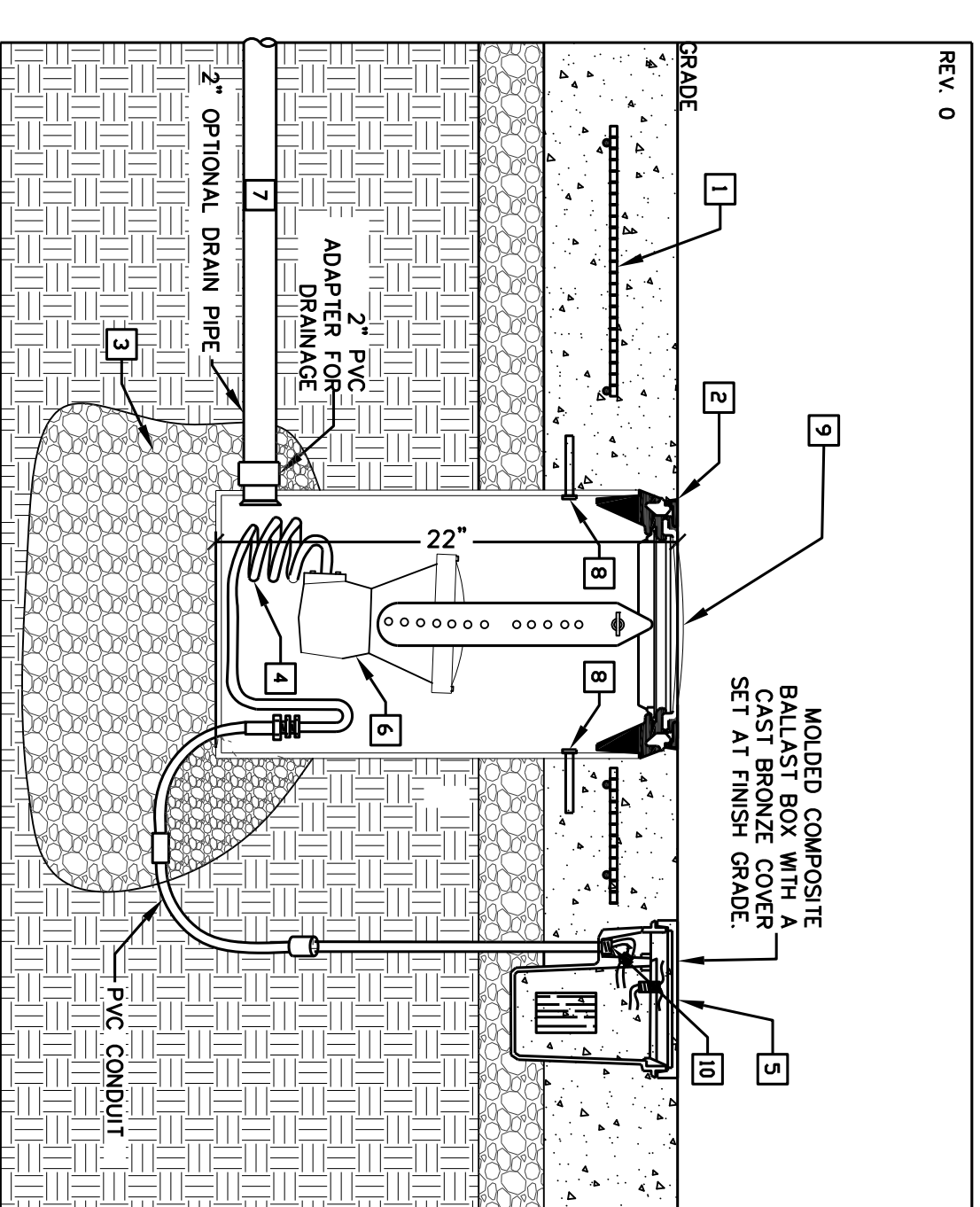
ELECTRICAL PANELS:

- 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 PREWRITTEN CIRCUIT DIRECTORY.

TABLE W6:

LOCATION	20BY	480V	LDV ENERGY
EXPOSED	< 1" EMT COMPRESS FTGS > 1.25" IMC THREADED FTGS	IMC THREADED FTGS	EMT COMPRESS FTGS
INDOORS	RMC DR IMC THREADED FTGS	RMC DR IMC THREADED FTGS	RMC DR IMC THREADED FTGS
OUTDOORS	RMC DR IMC THREADED FTGS	RMC DR IMC THREADED FTGS	RMC DR 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" COMPRESS FTGS
CEILING/SPACE	< 2" EMT COMPRESS FTGS > 2.5" IMC THREADED FTGS	2" EMT COMPRESS FTGS < 2.5" IMC THREADED FTGS	EMT COMPRESS FTGS
NON AIR SPACE	< 2" EMT SET SCREW FTGS > 2.5" IMC THREADED FTGS	< 2" EMT COMPRESS FTGS > 2.5" IMC THREADED FTGS	EMT 1/2" - 2" SET SCREW FTGS 2.5" - 4" COMPRESS FTGS
CEILING/SPACE			
BLVD GRADE	IMC THREADED FTGS DR SCHEDULE 40 DR 80 PVC	IMC THREADED FTGS	IMC THREADED FTGS SCHEDULE 40 DR 80 PVC
INTERIOR	SCHEDULE 40 DR 80 PVC DR RMC THREADED FTGS	SCHEDULE 40 DR 80 PVC DR RMC THREADED FTGS	SCHEDULE 40 DR 80 PVC DR RMC THREADED FTGS
EXTERIOR	SCHEDULE 40 DR 80 PVC DR RMC THREADED FTGS	SCHEDULE 40 DR 80 PVC DR RMC THREADED FTGS	SCHEDULE 40 DR 80 PVC DR RMC THREADED FTGS

WELL LIGHT INSTALLATION DETAILS:  
CONCRETE INSTALLED WELL LIGHT:



KEY NOTES:

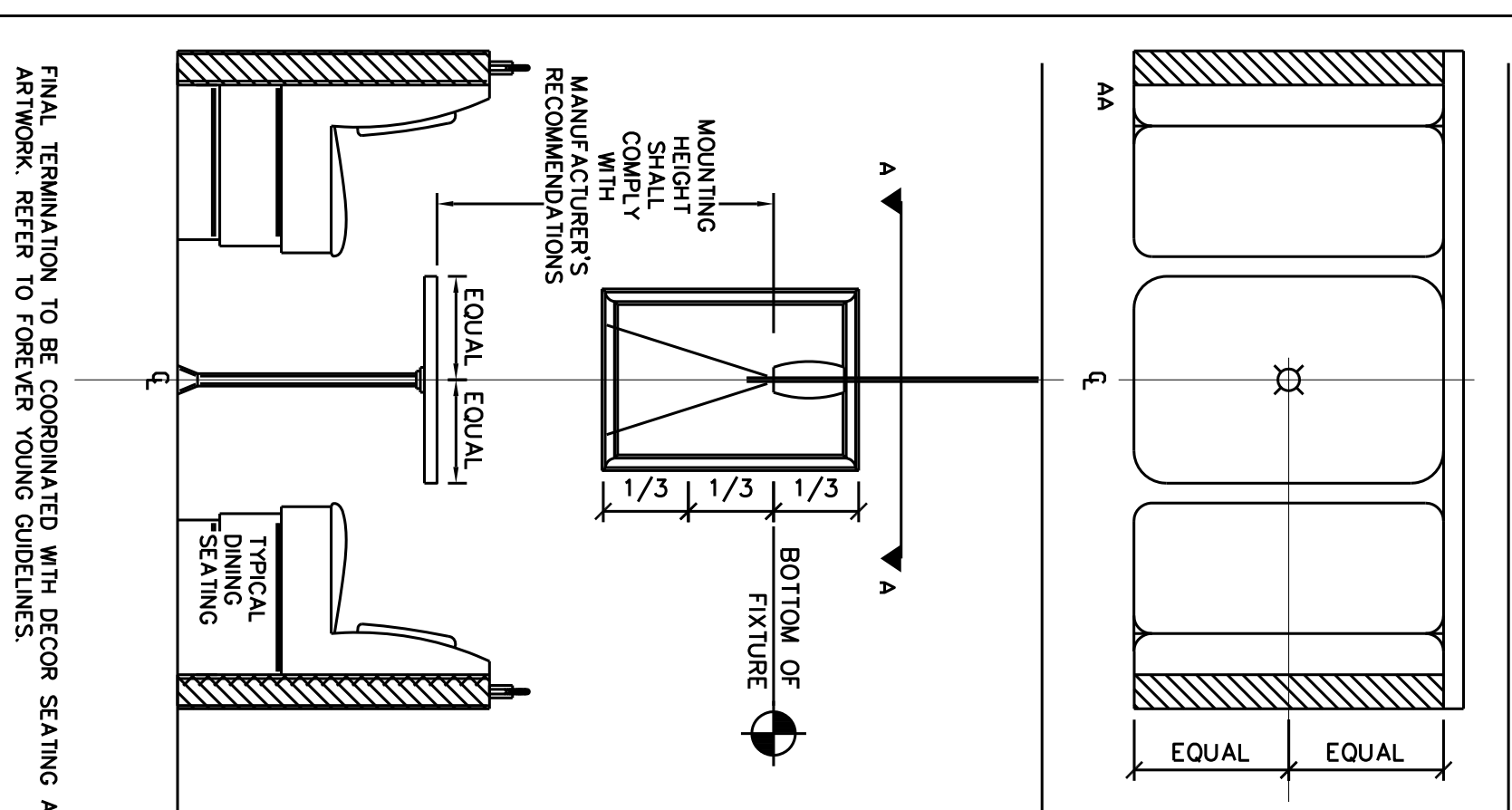
- 1. GC SHALL USE APPROPRIATE REBAR BRACING OF THE CONCRETE DUE TO HEAT EXPANSION.
- 2. EC SHALL INSTALL FIXTURE FLUSH WITH CONCRETE, MARBLE, OR PAVERS.
- 3. GC TO INSTALL 18" OF DRAINAGE GRAVEL.
- 4. EC SHALL COIL 6' CORO INSIDE WELL TO FACILITATE EASY REMOVAL FOR RE-LAMPING.
- 5. CONNECT FIXTURE WIRES TO FIELD WIRES TO PROPERLY IDENTIFY AND LABEL. WHITE-TO-COMMON, AND BLACK-TO-VOLTAGE. LOCATE BALLAST AWAY FROM FIXTURE TO ALLOW CONCRETE TO FILL SPACE.
- 6. EC SHALL VERIFY AMING ANGLE AND OWNER/OPERATOR/PROJECT MANAGER TO PROPERLY ILLUMINATE ARCADE. PERFORM AMING 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" x 4-3/8" BOLTS IN FACTORY HANGERS TO PROTECT FROM OVERLOADING.
- 9. WELL LIGHT FIXTURE SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FROM ORDER COMPARTMENT.
- 10. SEAL THE CORO AND FIELD WIRE ACCESS INTO THE BALLAST BOX SPACE.

GENERAL NOTES:

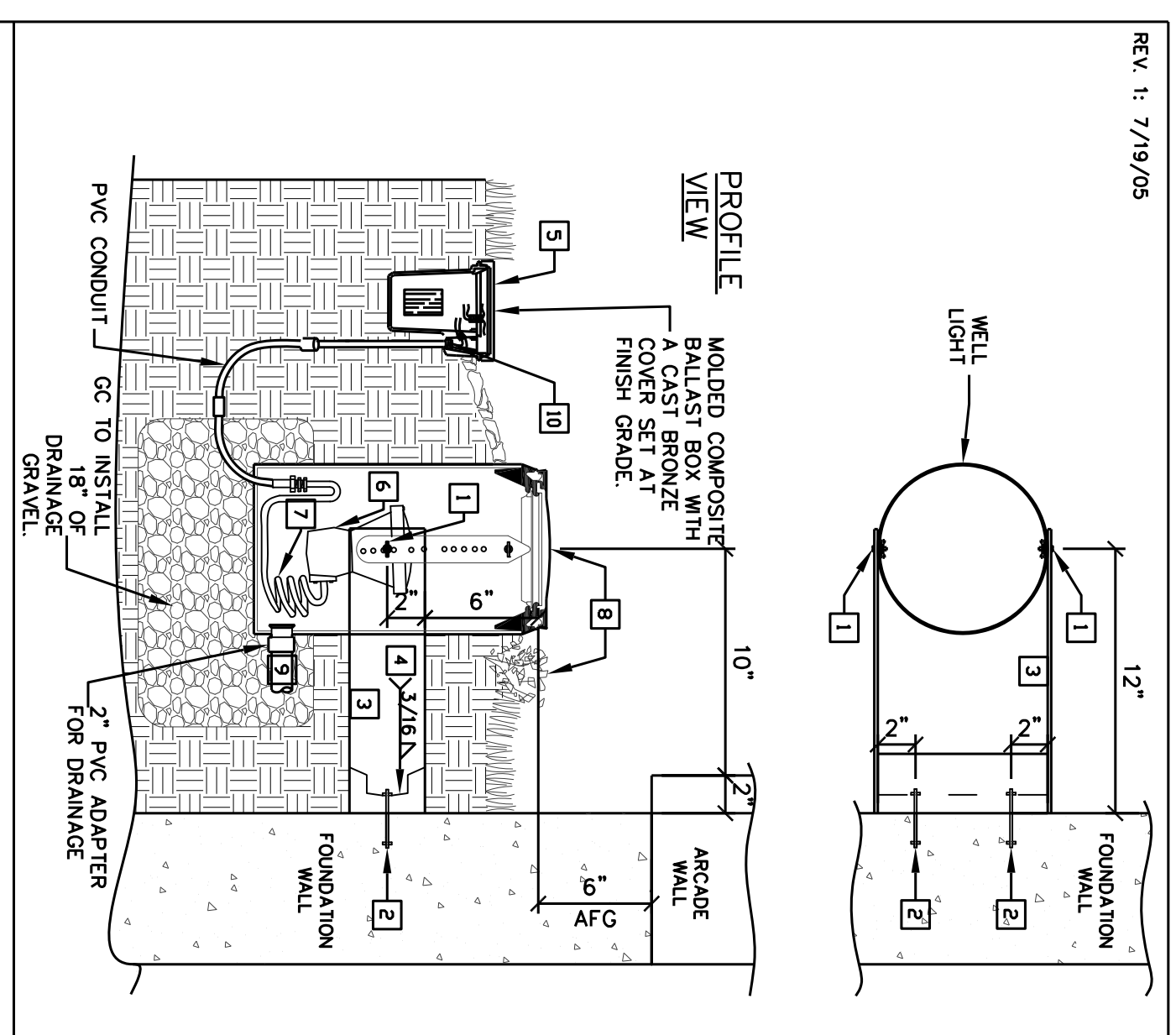
- A. SEAL THE CONDUIT ENTRIES WITH RIV.
- B. DO NOT POWER-WASH LIGHT FIXTURES.

ORDER WELL LIGHT FIXTURES FROM:  
(NO SUBSTITUTIONS OR ALTERNATES)  
MR. STEVE FREEMAN  
LANDSCAPING MATERIALS, INC.  
(A HUBBELL LIGHTING COMPANY)  
1085 JOHNSON DRIVE  
BUFFALO GROVE, IL 60089  
FAX: 847-272-9842  
MODEL# SLS-CW-M-70W-MT-SF/L110-MOD

PENDANT INSTALLATION  
DETAIL



LANDSCAPING INSTALLED WELL LIGHT:



KEYNOTES:

- 1. 3/8" BOLT WITH WASHER & NUT MUST BE PROVIDED AND INSTALLED TO PROPERLY ILLUMINATE WALL. PERFORM AMING AND FINAL ADJUSTMENT AT NIGHT.
- 2. ANCHOR BOLTS (DEPENDENT UPON TIME OF INSTALLATION).
- 3. EC SHALL COIL 6' CORO INSIDE WELL FOR EASY LAMP REPLACEMENT.
- 4. PL 1/4"x4" W/ 1-1/2" LONG VERTICAL SLOTTED HOLE.
- 5. CMT/S
- 6. CONNECT FIXTURE WIRES TO FIELD WIRES TO PROPERLY IDENTIFY AND LABEL. WHITE-TO-COMMON, AND BLACK-TO-VOLTAGE.
- 7. IN AREAS OF HIGH WATER TABLE OR POOR DRAINAGE, INSTALL 2" DRAINAGE PIPE AND COORDINATE WITH SITE DRAINAGE.
- 8. INSTALL WELL LIGHT PER MANUFACTURER'S REQUIREMENTS. PROTECT LENS AREA FROM ROCK, BARK, LANDSCAPING MATERIALS.
- 9. SEAL THE CORO AND FIELD WIRE ACCESS INTO THE BALLAST BOX SPACE.
- 10. SEAL THE CONDUIT ENTRIES WITH RIV.

REVISIONS		
NO.	DATE	BY
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7		

**Landry ARCHITECTS**  
389 Main Street, Suite 101  
603.894.6414 F: 603.894.4356

DRAWN BY: CJC  
CHECKED BY: LAF  
DATE DRAWN: 04/17/07

DATE ISSUED: 08/14/07  
SCALE: AS NOTED  
JOB NUMBER: M-1035

CONSULTANT:  
**EA**  
ENGINEERING ADVANTAGE, INC.  
2 PARK ST.  
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NOTES & DETAILS

**McDonald's**

RESTAURANT LOCATION:  
1332 US ROUTE 302  
PORTLAND, ME

PREPARED FOR:  
**McDonald's USA, LLC**  
MCDONALD'S PLAZA  
OAK BROOK, ILLINOIS  
60521

SHEET NUMBER:  
**E3.1**