

**GENERAL NOTES**

- G 1. COMPLETE SYSTEMS: PROVIDE (FURNISH AND INSTALL) ALL LABOR, MATERIAL, EQUIPMENT, AND TRANSPORTATION NECESSARY TO RECEIVE, INSTALL, ADJUST AND PUT INTO OPERATION COMPLETE SYSTEMS IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS. PROVIDE PRODUCTS NOT MENTIONED BUT OBVIOUSLY NECESSARY AND INCIDENTAL TO THE COMPLETION OF THIS WORK.
- G 2. SCOPE: WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: MECHANICAL WORK AS REQUIRED FOR COORDINATION, ELECTRICAL WIRING, LIGHTING FIXTURE INSTALLATION, FIRE ALARM AND SIGNAL SYSTEMS, AND INSTALLATION OF RELATED MATERIALS. PROVIDE ALL CONDUIT, BACKBOARDS, AND OUTLET BOXES NEEDED FOR TELEPHONE, DATA, VIDEO, AND SECURITY SYSTEMS, UNLESS PROVIDED BY OTHERS. COORDINATE WORK WITH TELEPHONE, DATA, VIDEO, AND SECURITY SYSTEMS CONTRACTORS. PROVIDE MINIMUM 3/4" INCH CONDUIT AND PULL STRINGS FROM EACH TELEPHONE-DATA OUTLET TO APPROPRIATE TERMINAL BACKBOARD, OR TO 6 INCHES ABOVE CEILING IF USING PLENUM RATE CABLE. COORDINATE CONDUIT WORK WITH DATA-TELECOMM CONTRACTOR. COORDINATE ALL TELEPHONE AND DATA LINES, QUANTITIES, AND LOCATIONS WITH PLANS AND SITE CONDITIONS. PROVIDE ALL ELECTRICAL LABOR AND MATERIALS NOT PROVIDED BY OTHERS, BUT NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- G 3. UTILITIES: COORDINATE WITH ALL UTILITY SERVICES. NOTIFY UTILITIES OF COMMENCEMENT OF WORK. MAKE ALL ARRANGEMENTS FOR TEMPORARY SERVICES. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLY WITH ALL UTILITY REGULATIONS AND REQUIREMENTS.
- G 4. PERMITS: OBTAIN ALL PERMITS NECESSARY TO BEGIN AND COMPLETE WORK.
- G 5. EXPERIENCE: ALL WORK DONE SHALL BE PERFORMED BY QUALIFIED PERSONNEL, UNDER THE SUPERVISION AND DIRECTION OF A SUPERINTENDENT HAVING SUCCESSFUL EXPERIENCE INSTALLING AND SUPERVISING EQUIPMENT AND SYSTEMS OF SIMILAR TYPE AND SIZE AS INDICATED BY THE CONTRACT DOCUMENTS.
- G 6. REGULATIONS: PERFORM ALL WORK IN ACCORDANCE WITH CURRENT RULES, REGULATIONS, AND INDUSTRY STANDARDS OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY COUNCIL, ADA, UL, IPCA, NEMA, NFPA, OSHA, ANSI, IEEE, AND ANY LOCAL CODES, LAWS, STANDARDS, AND ORDINANCES, IN THE EVENT THAT A DISCREPANCY IS FOUND IN THE CONTRACT DOCUMENTS, NOTIFY CONSULTANT IMMEDIATELY.
- G 7. CONDITIONS: EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY. SURVEY THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS, SCOPE OF WORK, AND OWNER'S CRITERIA AND SPECIFICATIONS. ALL COSTS SUBMITTED SHALL BE BASED ON A THOROUGH KNOWLEDGE OF ALL WORK AND MATERIALS REQUIRED. ANY ADDITIONAL COSTS DUE TO FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- G 8. SPECIFICATIONS: BECOME FAMILIAR WITH ALL SPECIFICATIONS, DESIGN CRITERIA, AND EQUIPMENT REQUIREMENTS PRIOR TO ANY EQUIPMENT PURCHASE OR INSTALLATION. REFERENCE PLANS AND SPECIFICATIONS FOR DEVICES, MATERIALS, AND WORKMANSHIP REQUIREMENTS. THE DRAWINGS AND THESE NOTES PROVIDE ADDITIONAL REQUIREMENTS THAT EXTEND AND SUPPLEMENT THE SPECIFICATIONS. WHERE ANY APPEARANCE OF CONTRADICTION OCCURS BETWEEN THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL PREVAIL. THERE SHALL BE NO DEVIATIONS FROM CONTRACT DOCUMENTS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT, ENGINEER, AND OTHER RELATED DESIGN PROFESSIONALS.
- G 9. COORDINATION: COORDINATE WORK WITH ALL OTHER TRADES. GIVE SPECIAL CONSIDERATION TO COORDINATING INSTALLATION OF LIGHTING, CABLING, PIPING, AND DUCTWORK. DO NOT RUN CONDUIT, CABLING, WIRING OR OTHER MATERIALS OR DEVICES IN OR THROUGH DUCTWORK. DO NOT RUN ELECTRICAL CONDUCTORS IMMEDIATELY ADJACENT AND PARALLEL TO COPPER TELEPHONE, DATA, OR OTHER SIGNAL OR COMMUNICATION WIRING.
- G 10. DEVICE COORDINATION: COORDINATE WALL OUTLET LOCATIONS AND ORIENTATIONS WITH MILLWORK. COORDINATE WALL SWITCHES WITH DOOR SWINGS. COORDINATE EXACT LOCATION, COLOR AND FINISH OF OUTLETS AND OTHER DEVICES WITH INTERIOR DESIGNER, ARCHITECT, OR DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. OBTAIN APPROVAL FOR DEVICES FROM ARCHITECT OR INTERIOR DESIGNER PRIOR TO INSTALLATION. COORDINATE EXACT LOCATION OF OUTLETS AND OTHER DEVICES WITH ELECTRICAL AND ARCHITECTURAL PLANS PRIOR TO INSTALLATION. PROVIDE OUTLET BOXES, DEVICES, COVERPLATES, AND FLANGES AS REQUIRED. PLACE ALL OUTLETS AT 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. REFERENCE ARCHITECT'S DRAWINGS FOR ALL HEIGHTS, DIMENSIONS, AND CONFIGURATIONS OF DEVICES NOT INDICATED ON THESE DRAWINGS. REFERENCE SAME DRAWINGS FOR EQUIPMENT NOT IDENTIFIED. COSTS FOR REVISIONS TO DEVICES OR DEVICE LOCATIONS DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- G 11. PRODUCTS: PRODUCTS OF A SIMILAR NATURE SHALL BE OF THE SAME TYPE AND MANUFACTURER. PROVIDE THE STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SPECIFIED PRODUCTS, UNLESS OTHERWISE REQUIRED BY DRAWINGS. CONSTRUCT AND INSTALL ALL PRODUCTS IN ACCORDANCE WITH NATIONALLY RECOGNIZED AND ACCEPTED STANDARDS AND PROCEDURES.
- G 12. COMPATIBILITY: ALL NEW ACTIVE ELECTRICAL EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT (IF ANY), BY MANUFACTURER, TYPE, AND APPLICATION.
- G 13. IDENTIFICATION: ALL ELECTRICAL DISTRIBUTION EQUIPMENT, TRANSFORMERS, PANELBOARDS, AND OTHER ENCLOSED EQUIPMENT SHALL BE IDENTIFIED AS INDICATED IN THE CONTRACT DOCUMENTS. IDENTIFICATION SHALL CONSIST OF PERMANENTLY ATTACHED ENGRAVED LAMINATED PLASTIC NAMEPLATES. EACH BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE SHALL BE IDENTIFIED BY CIRCUIT NUMBER AND SCHEDULED INSIDE EACH PANEL DOOR. EACH BRANCH CIRCUIT SPLICE OR TERMINATION SHALL BE IDENTIFIED BY PANEL AND CIRCUIT DESIGNATION SHOWN ON THE JUNCTION OR OUTLET BOX, OR UPON INDIVIDUAL WIRES IN CASES WHERE MORE THAN ONE OF EACH PHASE CONDUCTOR OCCUR.
- G 14. WIRING: ALL CONDUCTORS CARRYING GREATER THAN 70 VOLTS SHALL BE MINIMUM #12 AWG. SOLID, SOFT DRAWN COPPER OF 98% CONDUCTIVITY. INSULATION: PROVIDE THW, THHN, THWN, OR XHHW INSULATIONS. COORDINATE INSULATION TYPES WITH CONDITIONS, NEC REQUIREMENTS, AND CONDUIT FILL REQUIREMENTS. ALL WIRING SIZES ARE BASED ON 60 C OR 75 C INSULATION, ACCORDING TO CURRENT RATINGS, REGARDLESS OF ACTUAL INSULATION USED. TYPE "AC" OR "MC" CABLE IS ACCEPTABLE ONLY WITH TYPE THHN INSULATION.
- G 15. HOMERUNS: PROVIDE MINIMUM #10 AWG WIRING ON ALL HOMERUNS LONGER THAN 100 FEET.

- G16. NEUTRALS: SIZE ALL NEUTRALS FULL UNLESS SPECIFICALLY REDUCED ON PLANS. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. IF AND WHERE MULTIPLE BRANCH CIRCUITS DO SHARE A COMMON NEUTRAL, USE CIRCUITS IN A CONTIGUOUS MANNER, WITH EACH A, B, AND C PHASE COMING FROM ADJACENT CIRCUIT BREAKERS. DO NOT CIRCUIT NON-ADJACENT CIRCUITS TO THE SAME NEUTRAL. DO NOT CIRCUIT PHASES FROM ONE PANELBOARD WITH A NEUTRAL FROM A DIFFERENT PANELBOARD.
- G17. GROUNDING: GROUND ALL CIRCUITS WITH MINIMUM #12 AWG INSULATED GREEN COPPER GROUND WIRE. CONDUIT MAY NOT BE USED IN LIEU OF A GROUND WIRE.
- G18. CONDUIT: ALL WIRING CARRYING VOLTAGES GREATER THAN 50 VOLTS SHALL BE IN CONDUIT, MINIMUM 1/2" INCH. EMT IS ACCEPTABLE ONLY WITH COMPRESSION FITTINGS. FLEXIBLE METAL CONDUIT IS ACCEPTABLE ONLY WITH SEPARATE INSULATED GROUND WIRE, AND ONLY FOR SWITCH DROPS OR LIGHTING FIXTURE WHIPS, OR FOR CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION. EMT, ALUMINUM CONDUIT NM ("ROMEX"), NMC, AND SMC ARE NOT ACCEPTABLE AND MAY NOT BE USED.  
RIGID: USE GALVANIZED RIGID STEEL CONDUIT FOR ANY SIZE OVER 2 INCHES, OR WHERE EXPOSED TO WEATHER, OR WHERE CONDUIT IS EXPOSED TO POTENTIAL DAMAGE.  
IMC: INTERMEDIATE METALLIC CONDUIT MAY BE ACCEPTABLE WITH WRITTEN APPROVAL OF DESIGN PROFESSIONAL AFTER COORDINATION OF USE IN FIELD.  
PVC: PROVIDE MINIMUM SCHEDULE 40 ELECTRICAL GRADE CONDUIT. LIMIT USE OF PVC TO BELOW GRADE. USE PVC ONLY FOR STRAIGHT RUNS, NEVER FOR TURNS. INSTALL RIGID STEEL CONDUIT WITH WIDE RADIUS BENDS FOR ALL TURNS.  
CONDUIT ROUTING: CONDUIT AND CIRCUITING SHOWN ON PLANS IS SYMBOLIC AND DIAGRAMMATIC. INSTALL CONDUIT TO FIT ACTUAL FIELD CONDITIONS. DO NOT RUN CONDUIT IN OR THROUGH DUCTWORK.  
CONDUIT BELOW GRADE: COVER METALLIC CONDUIT BELOW GRADE WITH ASPHALTUM OR BITUMASTIC TAPE OR OTHER APPROVED PROTECTIVE MATERIAL. SEAL JOINTS AGAINST WATER.  
CONDUIT FITTINGS: ALL FITTINGS SHALL BE COMPRESSION OR THREADED. SET SCREW FITTINGS ARE NOT ACCEPTABLE AND MAY NOT BE USED.
- G19. CIRCUIT BREAKERS: ALL BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICES SHALL BE MINIMUM 20 AMPERE INVERSE TIME TYPE CIRCUIT BREAKERS. 250V AND LESS DEVICES SHALL BE RATED MINIMUM 10,000 AIC. DEVICES HIGHER THAN 250V SHALL BE RATED MINIMUM 14,000 AIC. HIGHER REQUIREMENTS MAY BE NOTED ON SCHEDULES OR ON RISERS. MULTIPOLAR BREAKERS SHALL BE INTEGRAL UNITS. HANDLE TIES MAY NOT BE USED.
- G20. FUSES: ALL FUSES 600 AMPERES OR LESS SHALL BE UL LISTED CLASS J, LOW PEAK, DUAL ELEMENT, TIME DELAY, 600 VOLTS. ACCEPTABLE MANUFACTURERS: BUSSMAN, GOLD-SHAMMUT, OR AS INDICATED IN PROJECT SPECIFICATIONS. USE ONLY FUSES AT ALL SERVICE ENTRANCE EQUIPMENT, SWITCHBOARDS, AND DISTRIBUTION PANELS.
- G21. PENETRATIONS: COORDINATE FLOOR PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER. FIRESTOP OPENINGS AROUND PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS. USE APPROVED METHODS TO MAINTAIN FIRE RESISTIVE RATINGS. WHERE CONFLICTS OCCUR, NOTIFY ARCHITECT IMMEDIATELY.
- G22. SUBSTITUTIONS: SUBMIT TO ARCHITECT FOR APPROVAL, 10 DAYS PRIOR TO PRESENTATION OF BID TO OWNER, ANY REQUESTED ALTERNATES TO MANUFACTURERS SPECIFIED IN THE CONTRACT DOCUMENTS. ARCHITECT AND OWNER WILL CONSIDER REQUESTED ALTERNATES. IF ALLOWED, NOTICE WILL BE MADE PRIOR TO FINAL BID DATE.  
ACCEPTANCE OF SUBSTITUTIONS PRIOR TO BID DOES NOT CONFER APPROVAL OF SUBSTITUTIONS. ONLY CONDITIONAL APPROVAL IS GRANTED, SUBJECT TO FINAL DETERMINATION THAT SUBSTITUTIONS MEET OR EXCEED SPECIFIED REQUIREMENTS OR MEET OR EXCEED THE PERFORMANCE OF THE SPECIFIED PRODUCTS. SUBSTITUTIONS SUBMITTED LATER THAN 10 DAYS PRIOR WILL NOT BE CONSIDERED. THE CONTRACTOR BEARS THE BURDEN OF SHOWING PROOF THAT REQUESTED SUBSTITUTIONS PERFORM IN A MANNER EQUAL OR SUPERIOR TO THE SPECIFIED ITEM. INFORMATION SUBMITTED FOR CONSIDERATION SHOULD INCLUDE PERFORMANCE CHARACTERISTICS, ILLUSTRATIONS OF FIELD APPLICATIONS, AND COMPARISONS OF THE REQUESTED ALTERNATE ITEM(S) TO THE SPECIFIED ITEM(S) OR TO THE SPECIFIED PERFORMANCE REQUIREMENTS. THE ARCHITECT, ENGINEER, OR OTHER RELATED DESIGN PROFESSIONAL MAY REJECT SUBSTITUTIONS WHICH DO NOT MEET THE INTENDED LEVEL OF QUALITY DESIRED FOR THE PROJECT.  
SUBSTITUTION: A LUMINAIRE, FIXTURE, DEVICE, EQUIPMENT ITEM, COMPONENT, MANUFACTURER, OR OTHER MATERIAL NOT SPECIFIED IN THE CONTRACT DOCUMENTS.
- G23. SUBMITTALS: SUBMIT SHOP DRAWINGS, MANUFACTURERS' STANDARD PRODUCT INFORMATION, PERFORMANCE SPECIFICATIONS, PHYSICAL DIMENSIONS, AND OTHER INFORMATION NECESSARY FOR THE DESIGN PROFESSIONALS TO INSURE COMPLIANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING AND INSTALLING ANY EQUIPMENT. INCLUDE SHOP DRAWING PREPARATION TIME, TRANSMITTAL TIME, AND APPROVAL AND REVIEW TIME IN PROJECT SCHEDULE. REFERENCE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. THE CONTRACTOR BEARS FULL LIABILITY FOR PROJECT DELAYS DUE TO FAILURE TO COMPLY WITH THIS REQUIREMENT.
- G24. PROJECT RECORD DOCUMENTS: UPON COMPLETION OF WORK, PREPARE PROJECT RECORD DOCUMENTS ("AS-BUILTS") ON A SUITABLE REPRODUCIBLE MEDIUM (MYLAR OR VELLUM). PRESENT COMPLETED DRAWINGS TO OWNER AND AT LEAST TWO SETS OF PRINTS TO DESIGN PROFESSIONAL. INCLUDE ALL BRANCH CIRCUITS, FEEDERS, AND EQUIPMENT LAYOUTS.
- G25. WARRANTY: WARRANT ALL NEW OR EXISTING MATERIALS, EQUIPMENT, AND INSTALLATION FOR AT LEAST ONE YEAR FROM TIME OF ACCEPTANCE BY OWNER (UNLESS MORE STRINGENT WARRANTIES ARE REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS).

**ADDITIONAL SYMBOLS**



ELECTRICAL DATA TELECOMM AND SECURITY SYMBOLS	
20A 125V 2P 3W GROUNDING SINGLE RECEPTACLE NEMA 5-20R	DISCONNECT SWITCH
20A, 125V, 2P 3W GROUNDING DUPLEX RECEPTACLE NEMA 5-10R	FUSED DISCONNECT SWITCH
CEILING OUTLET WITH DUPLEX RECEPT	MOTOR STARTER
FLOOR OUTLET WITH DUPLEX RECEPT (FLUSH)	COMBINATION STARTER & DISCONNECT SWITCH
20A, 125V, 2P, 3W GROUNDING QUAD RECEPTACLE NEMA 5-2R	MOTOR
INSULATED ISOLATED GROUND REQUIRED	HOME RUN TO PANELBOARD
GROUND FAULT INTERRUPT REQUIRED	CIRCUIT NUMBER
WEATHERPROOF COVER REQUIRED	EQUIPMENT CONNECTION
ABOVE SPLASH OR COUNTERTOP DUPLEX RECEPTACLE	SWITCH LEG ( ) HOT ( ) NEUTRAL ( ) GROUND ( )
SPLIT WIRE DUPLEX RECEPTACLE	CONDUIT IN CEILING OR WALL
20A 1 RECEPT, NEMA 14-20R	CONDUIT EXPOSED
SPECIAL PURPOSE OUTLET (NEMA CONFIGURATION AS NOTED)	CONDUIT IN OR UNDER FLOOR
FLUSH FLOOR SPECIAL PURPOSE OUTLET	CONDUIT STUBBED DOWN
WALL MOUNTED SPECIAL PURPOSE OUTLET	CONDUIT STUBBED UP
TELEPHONE RING & STRING OUTLET	CONDUIT WITH BREAK SHOWN FOR GRAPHIC CLARITY
FLUSH FLOOR TELEPHONE OUTLET	PANELBOARD 208Y/120V 3PH 4W
DATA OUTLET	PANELBOARD 480Y/277V 3PH 4W
FLUSH FLOOR DATA OUTLET	DRY TYPE TRANSFORMER
COMBINATION TELEPHONE/DATA RING & STRING OUTLET	TELEPHONE BACKBOARD (TTB)
WALL MOUNTED JUNCTION BOX	FIRE ALARM PULL STATION
CEILING MOUNTED JUNCTION BOX	FIRE ALARM HORN STROBE
FLOOR MOUNTED JUNCTION BOX	FIRE ALARM CONTROL PANEL
FURNITURE SYSTEM BASE POWER IN	FIRE ALARM HORN STROBE COMBINATION
FURNITURE SYSTEM DATA-TELECOMM CONNECTION	KEYED NOTE TAG. REFERENCE KEYED NOTES ON SAME PAGE.
FLOOR MOUNTED DATA/POWER	EQUIPMENT LABEL
TOMBSTONE DUPLEX RECEPTACLE MOUNTED ON COUNTER TOP. REFERENCE KITCHEN EQUIPMENT DRAWINGS FOR DEVICE TYPE.	WALKER RFB4 RECESSED FLOOR BOX FOR MULTIPLE SYSTEMS TO SERVICE MODULAR FURNITURE AND MILLWORK. PROVIDE INSETS AND DEVICES AS REQUIRED. FVR.
	WALKER 880 FLUSH FLOOR BOX WITH 827 BRASS FLANGE, COORDINATE FLOOR FINISH. 2 OR 3 GANGS AS REQUIRED. PROVIDE DEVICES INDICATED. FVR. COORDINATE WITH ARCHITECT.

NOTE: SYMBOLS SHOWN MAY NOT ALL BE USED IN PLANS. PRESENCE OF A SYMBOL IN THIS SCHEDULE DOES NOT INDICATE PROJECT QUANTITIES, ONLY TYPES AND CONFIGURATIONS. MODEL NUMBERS GIVEN ARE FOR INDICATION OF DESIGN INTENT. OTHER MANUFACTURERS MAY BE ACCEPTABLE. REFERENCE SPECIFICATIONS FOR APPROVED MANUFACTURERS. ALTERNATES AND SUBSTITUTIONS MUST BE APPROVED BY CONSULTANT. CONTRACTOR MUST COORDINATE ANY REQUIRED MODIFICATIONS DUE TO SUBMITTED ALTERNATES AND MAKE ALL NECESSARY ADJUSTMENTS.

**SPECIAL SYSTEMS NOTES FOR ELECTRICAL WORK**

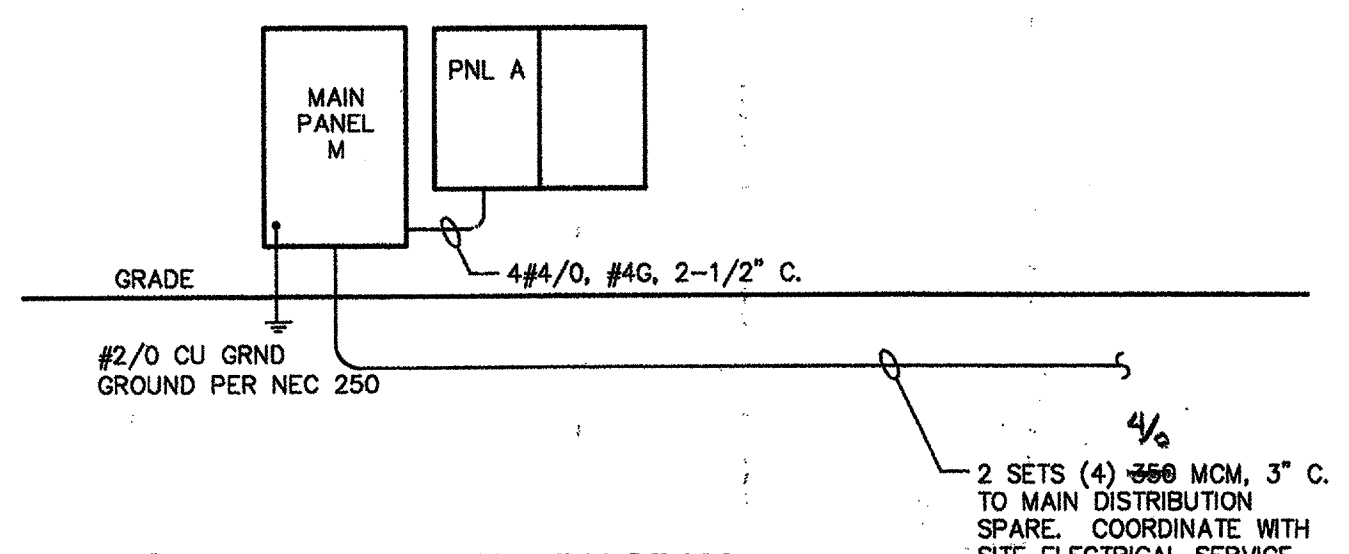
- S1. TELEPHONE SYSTEM: PROVIDE BACKBOARDS, CONDUITS, AND PULL STRINGS. COORDINATE WORK WITH TELEPHONE COMPANY AND TELEPHONE CONTRACTOR. COORDINATE CONDUIT ROUTING WITH FIELD CONDITIONS. PROVIDE CONDUIT FOR TRUNKS. PROVIDE CONDUIT FOR RUNS EXPOSED TO WEATHER OR DAMAGE
- S2. TELEPHONE/DATA RECEPTACLES: FURNISH AND INSTALL 3/4" CONDUIT AND PULL STRINGS FROM OUTLETS TO 6" ABOVE CEILING. VERIFY EXACT REQUIREMENTS WITH TELEPHONE EQUIPMENT SUPPLIER AND INSTALLER. FURNISH AND INSTALL MATERIALS NOT PROVIDED BY TELEPHONE CONTRACTOR.
- S3. FIRE ALARM: VERIFY FIRE ALARM REQUIREMENTS IN FIELD WITH LOCAL AUTHORITY HAVING JURISDICTION. FURNISH AND INSTALL NEW INITIATION AND ANNUNCIATION DEVICES.

**SECURITY SYSTEM BASIC ELECTRICAL MATERIALS**

PROVIDE POWER AND CONDUIT FOR SECURITY SYSTEMS, INCLUDING ALL EQUIPMENT, POWER AND WIRING, CONDUIT AND CIRCUITING, BOXES, AND OTHER MATERIAL NECESSARY FOR COMPLETE SYSTEMS. COORDINATE CEILING, FLOOR, AND WALL RECEPTACLE QUANTITIES AND LOCATIONS WITH ARCHITECTURAL CONDITIONS. COORDINATE WORK WITH SECURITY SYSTEMS INSTALLERS. PROVIDE ROUGH-INS AND OTHER GENERAL MATERIALS AS NECESSARY TO ALLOW SECURITY CONTRACTORS TO COMPLETE SYSTEMS INSTALLATIONS.

**ELECTRICAL ABBREVIATIONS**

AHU	AIR HANDLING UNIT	MCM	THOUSAND CIRCULAR MILS
A	AMPERES	N.I.C.	NOT IN CONTRACT
AFB or A.F.F.	INDICATES ABOVE FINISHED FLOOR HEIGHT NOTED	NEC	NATIONAL ELECTRICAL CODE
ACT	ABOVE COUNTER TOP	NF	NOT FUSED
BKR	BREAKER	PNL	PANEL
C or COND.	CONDUIT	PDU	POWER DISTRIBUTION UNIT
CB	CIRCUIT BREAKER	PH	PHASE
CKT	CIRCUIT	P	POLE
CO	CONVENIENCE OUTLET	PVC	POLYVINYL CHLORIDE
DISC. SW.	DISCONNECT SWITCH	PWR	POWER
DWG	DRAWING		
EC	EMPTY CONDUIT		
EF	EXHAUST FAN	P.F.	POWER FACTOR
F/A FA	FIRE ALARM	RECPT	RECEPTACLE
FACP	FIRE ALARM CONTROL PANEL		
FVR	FIELD VERIFY REQUIREMENTS	SPEC	SPECIFICATION
GND	GROUND	S/N	SOLID NEUTRAL
HVAC	HEATING VENTILATION AND AIR CONDITIONING	SW	SWITCH
HZ	HERTZ	THHW	MOISTURE AND HEAT RESISTANT THERMOPLASTIC INSULATED WIRE
IG	ISOLATED GROUND	THHN/THWN	MOISTURE AND HEAT RESISTANT THERMOPLASTIC INSULATED NYLON-JACKETED WIRE
KCM	THOUSAND CIRCULAR MILS	TEL	TELEPHONE
KVA	KILOVOLT AMPERES (1000 VOLT-AMPERES)	TTB	TELEPHONE TERMINAL BOARD
KV	KILOVOLTS (1000 VOLTS)	TVSS	TRANSIENT VOLTAGE SURGE PROTECTION
KW	KILOWATTS (1000 WATTS)		
MLO	MAIN LUGS ONLY	U.O.N.	UNLESS OTHERWISE NOTED
MH	MANHOLE	WP	WEATHERPROOF
		XFMR	TRANSFORMER



**1 ELECTRICAL RISER DIAGRAM**

**Cunningham architects**  
 918 Dempsey Street, Dallas, Texas 75207  
 214.915.0900  
 214.915.0901

**Addison Arts and Events Pavilion**  
 Addison, Texas

**MURDIN**  
 918 Dragon Street, Dallas, Texas 75207  
 214.915.0905  
 214.915.0901

DATE  
 08/26/02  
 10/31/02  
 01/23/03

ISSUE  
 DD 50% CD CD  
 95%

**E3.0**  
 ELECTRICAL NOTES & DETAILS