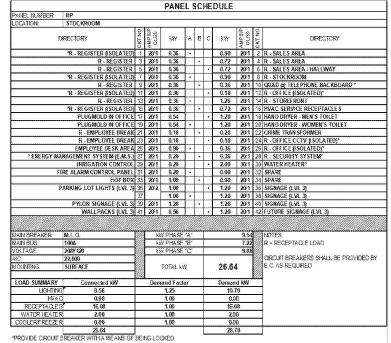


20.82

TOTAL KW



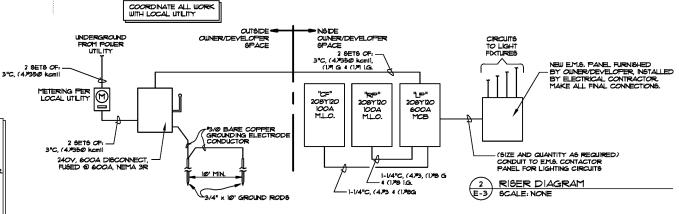
ON EACH ELECTRICAL PANEL, CIRCUITS DENOTED WITH "E VLA" ARE CONTROLLED VIA LIGHTING CONTROL PANEL LCP WHICH IS PART OF TH E.M.S. (ENERGY MANAGEMENT SYSTEM), PER THE FOLLOWING, THE "LVL#" INDICATES THE CONTACTOR(S) THAT WILL SWITCH THE ASSOCIATED CIRCUITS

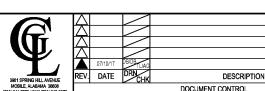
- EVE 1 = EMPLOYEE LIGHTS (1 CONTACTOR REGISTER)
- CVL 1 EMPLOYEE LIGHTS (TCOMTACTOR REQUIRED)
 EVE 2 CUSTOMER LIGHTS (FCOMTACTOR REQUIRED)
 EVE 3 SIGNS / EXTERIOR LIGHTS (2 CONTACTORS REQUIRED)
 EVE 4 DAYLIGHTING (1 CONTACTOR REQUIRED)

LVL 5 = STOCKROOM (1 CONTACTOR REQUIRED)

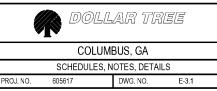
GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 76, NATIONAL ELECTRICAL CODE. ALL ITEMS ARE ON AN OR EQUAL BASIS.
- ALL SINGLE PHASE BRANCH CIRCUITS (RECEPTACLES, LIGHTING, ETC.) ARE 1/2" CONDUIT OR EHT WITH (3/HZ OR MC CABLE TO THE EXTENT ALLOWED BY NEC AND THE LOCAL AUTHORITIES. ALL CONDUCTORS TO BE THIN, 30"C WIRING. ALL OTHER CONDUIT AND WIRING SHALL BE AS INDICATED ON THE PLANS. ACTUAL ROUTING AND HOMERUN GROUPINGS ARE TO BE DETERMINED IN THE FIELD.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC EXCEPT FOR DETAILS AND ELEVATIONS. DO NOT SCALE FROM DIAGRAMMATIC DRAWINGS. EXACT LOCATIONS OF DEVICES AND PANELS ARE TO BE DETERMINED AND ROUGHED IN DURING CONSTRUCTION TO AVOID INTERESPENCE, TO MEET USER REQUIREMENTS, TO PROVIDE ADEQUATE MOUNTING, AND TO MEET NEC LINEAR ACCESS AND CLEARANCE REQUIREMENTS IN
- CIRCUIT BREAKER FOR WATER HEATERS TO BE PROVIDED WITH THE MEANS TO BE LOCKED IN THE OPEN POSITION.
- 5. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE RESHING I
- FINAL CONNECTIONS TO ALL AIR-HANDLERS, CONDENSING UNITS, EXHAUST FAN OTHER EQUIPMENT DEVICES WHICH VIBRATE, SHALL BE MADE WITH FLEXIBLE AND APPROPRIATE WIRNS.
- THE GENERAL CONTRACTOR AND ELECTRICAL COMPANIOR SHALL COORDIN THE BIGN VENDOR FOR ANY ADDITIONAL EXTERIOR BIGNING AND THE ASSOCI ELECTRICAL REGULREPHORS, AFTER THE ELB RICAL DEVIN N COMPLETE, IT DETERMINED THAT CERTAIN SITES REQUIRE SEA, OR REAN CHAGE.
- 8. BACK TO BACK MOUNTING OF RECEPTACLES IS
- IN ADDITION TO THE NEC RECIPIED IN RECEPTACLES SHALL ALL BE GPCI RANGED FOR A SINK, (2)-ALC'S CEPTACLES UNSERVICING HVAC EQUIPMENT FOR ACCEPTABLES OR GPCI CIRCUIT BREAKER FOR ACCEPTABREAKERS OR OTHER GPCI IN CESS SHALL SOURCE FROTECTION SHOULD BE ACCEPTABLES OF THE GPCI IN CESS SHALL SOURCE FROTECTION SHOULD BE ACCEPTABLES. ES THE FOIL QUING GROUP RECENTANCES, THE FOLLOWING (1)-AL ECEPTACIES LOCATED WITHIN 6 ARE PRIVIDED FOR CONVENIENCE IN LOCATION ETHER INDIVIDUAL GROI DEVICE BUT PACEPTACLES PROVIDED BY CIRCUIT CLEARLY MARKED AS GROI AND THE
- / ETTERS ON BLACK BACKGROUND) ON EACH OR, TRANSFORMER, DISCONNECT SWITCH, ETC.
- RES FOR HY EQUIPMENT SHALL BE HACR RATED.
- MINIMUM HORIZO ARATION BETWEEN BOXES ON OPPOSITE WALLS OF FIRE RATED
- VERIFY AND DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGHING IN LIGHT SWITCHES.
- TRADE NAMES ARE GIVEN TO CLARIFY TYPE OF PRODUCT AND QUALITY DESIRED.
- CONTRACTOR SHALL CUT AS REQUIRED TO INSTALL ELECTRICAL EQUIPMENT. REPAIR OF FLOOR OR WALLS SHALL BE COORDINATED WITH GENERAL CONTRACTOR. CONTRACTOR SHALL ALSO REPAIR ALL OPENINGS LEFT DUE TO EQUIPMENT REMOVAL.
- CONDUCTORS ARE AUG 1/2 COPPER UNLESS OTHERWISE SHOWN, ALL CONDUCTORS LARGER THAN 90 SHALL BE STRANDED. RUNS IN EXCESS OF 90'-0" (ONE WAY) SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE MAXIMUM 2% VOLTAGE DROP.
- PANELBOARDS SHALL CONTAIN A TYPEWRITTEN DIRECTORY WITH A PLASTIC COVER AFFIXED TO THE INSIDE DOOR
- ALL FIXTURES, DEVICES, CONDUIT, AND EQUIPMENT SHALL BE SECURED WITH APPROVED HANGERS AND ANCHORS AND IN ACCORDANCE WITH APPROVED STANDARDS OF INSTALLATION.
- 19. ALL BREAKERS SHOUN IN THE PANELBOARD SCHEDULE SHALL BE RATED AS SHOUN FOR BOTH CIRCUIT CAPACITY AND FAILT CURRENT INTERRUPTING CAPACITY.
- CONDUIT FOR TELEPHONE OUTLETS TO BE 3/4" EMT. PROVIDE PULL STRING TO TELEPHONE BACKBOARD VIA CONDUITS AND CABLE TRAY WHERE FEASIBLE.
- ALL PANELBOARDS, DISCONNECT SUITCHES, MOTOR STARTERS, AND CONTACTORS SHALL BE NEMA I, UNLESS OTHERWISE NOTED.
- 22. IN ACCORDANCE WITH ARTICLE 250-81 NEC, BOND GROUNDING ELECTRODE SYSTEM TO ALL OF THE FOLLOWING IF AVAILABLE:
 - (1) BUILDING STEEL
 - (2) FOUNDATION REBAR
- (3) BUILDING COUNTERPOISE (4) UNDERGROUND METAL COLD WATER PIPE







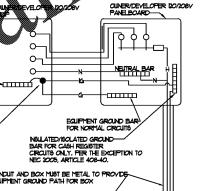


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*PROVIDE CIRCUIT BREAKER WITH A MEANS OF BEING LOCKED.

CASH REGISTER GROUNDING

FUNISH AND NSTALL AN INSLATED, ISOLATED GROUND BAR IN PRISTALL AN INSLATED ISOLATED GROUND WIRE IN EACH BRACK CIRCUIT TOMERLY TO PANALBOARD CONNECT GROUND WIRE CASH REGISTER AND COMPUTED CIRCUITS TO ISOLATED GROUND ARE IN PANALBOARD AND DIRECTLY ASSOLATED GROUND GROUN

LOAD SUMMARY

DIAGRAM NOTES

CASH REGISTER AND COMPUTER WIRING

CASH REGISTER GROUNDING DIAGRAM

CONNECTION OF ISOLATED GROUND TO EQUIPMENT GROUND SHALL OCCUR AT THE MAIN PANEL OR DISCONNECT WHERE THE SERVICE GROUND IS ESTABLISHED.

C. AS REQUIRED

CONDUIT AND BOX MUST BE METAL TO PROVIDE EQUIPMENT GROUND PATH FOR BOX

NOTE: DO NOT RUN CASH REGISTER CIRCUITS IN CONDUIT WITH OTHER CIRCUITS

─ ISOLATED GROUND ATTACHED TO RECPETACLE ISOLATED GROUND SCREW

RISER LEGEND

CONTINUOUS LINE TYPE INDICATES NEW EQUIPMENT TO BE INSTALLED PHANTOM LINE TYPE INDICATES EXISTING EQUIPMENT TO BE RELOCATED

DASH DOT LINE TYPE INDICATES EXISTING EQUIPMENT TO REMAIN

HIDDEN LINE TYPE INDICATES EQUIPMENT FURNISHED AND

INSTALLED BY OWNER/DEVELOPER