

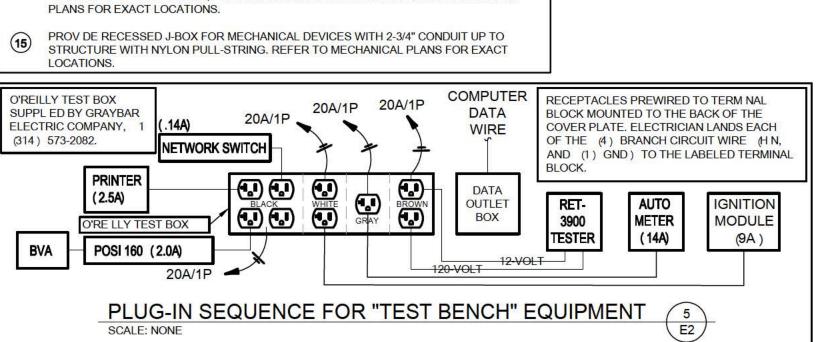
## THE EVENT A MONITORED FIRE ALARM SYSTEM IS REQUIRED BY THE AUTHORITY HAVING URISDICTION, THE ALARM SYSTEM WILL BE CONTRACTED DIRECTLY BY THE ALARM SERVICES MANAGER, LEIGH SIDES, WITH THE O'REILLY AUTOMOTIVE CORPORATE OFFICE. THE GENERAL CONTRACTOR SHALL NOT PROCURE ANYONE TO INSTALL OR QUOTE THESE SYSTEMS UNLESS THEY HAVE BEEN ASKED TO DO SO BY LEIGH SIDES. PLEASE CONTACT LEIGH SIDES @ 417-829-5712 IF A SYSTEM IS NEEDED OR IF THERE ARE ANY QUESTIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE PULL-STRING IN EACH CONDUIT. D. OWNER SHALL PROVIDE AND INSTALL ALL TELEPHONE AND DATA WIRING.

TELEPHONE AND COMPUTER DATA SYSTEMS A. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL TELEPHONE AND DATA CONDUITS. B. ELECTRICAL CONTRACTOR SHALL VACUUM OUT ALL CONDUITS TO REMOVE WATER.

FIRE ALARM NOTE

## **POWER - KEYNOTES**

- 3" CONDUIT UNDERSLAB FROM COUNTER TO OFFICE FOR PHONE & DATA WIRING BY OWNER. STUB 3" CONDUIT TO A MINIMUM OF 9 FEET ABOVE F NISH FLOOR IN OFFICE. STUB 3" CONDUIT TO A MINIMUM OF 2- NCHES ABOVE FINISH FLOOR UNDER COUNTER. SEE DETA L 1/E2 & 6/E2. INSTALL PULL STR NG.
- 2 TEST OUTLET BOX. 120V. INSTALL (2) DUPLEX OUTLETS EACH ON THE TOWNS CIRCUIT, (1) SINGLE OUTLET ON ONE CIRCUIT, (1) QUADPLEX OUTLET ON ONE TEST OUTLET BOX. 120V. INSTALL (2) DUPLEX OUTLETS EACH ON THE R OWN CIRCUIT & A COMPUTER DATA OUTLET BOX. SEE DETA L 2/E2.
- J-BOX/CIRCUIT FOR FIRE ALARM SYSTEM INSTALLED F, AND ONLY IF, FIRE ALARM SYSTEM IS REQUIRED. CONTRACTOR SHALL CONFIRM THAT SYSTEM IS REQUIRED
- PRIOR TO ROUGH-IN. THE BREAKER SHALL BE PAINTED RED AND LOCKABLE. ROUTE C RCUIT THROUGH "E" PANEL TRANSFER SWITCH. SEE "E" PANEL TRANSFER
- SWITCH SCHEDULE ON SHEETS E3. (5) FLOOR 4-PLEX ISOLATED GROUND RECEPTACLE. SEE DETAIL 4/E2.
- STUB UP 2" CONDUITS (FOR PHONE/DATA) TO A MIN MUM OF 2-INCHES ABOVE F NISH FLOOR. NO BOXES REQUIRED. TYPICAL OF ALL COUNTERS. SEE DETA L 1/E2.
- 7 3/4" PVC CONDUIT UNDERSLAB. RUN ONE PVC CONDUIT FROM EACH FLOOR RECEPTACLE TO PANEL LOCATION.
- (8) FLOOR DUPLEX RECEPTACLE (FOR COKE MACHINE) SEE DETAIL 4/E2 SIM LAR.
- MOUNT RECEPTACLE IN CEILING FOR "OPEN" SIGN. C RCUIT RECEPTACLE TO NEAREST LIGHTING CONTROL PANEL CONTROLLED LIGHTING C RCUIT AND AHEAD OF ALL DIMMER SWITCHES AND DAY LIGHTING CONTROLS. "OPEN" SIGN CAN ALSO BE OPERATED BY WALL SWITCH. SEE DETAIL 1/E1.
- CONTRACTOR TO INSTALL J-BOX, CONDUIT, AND PULL STRING FOR FIRE ALARM. MOUNT J-BOX BELOW OPTIONAL CONVENIENCE OUTLET LOCATION. REFERENCE SHEET M2.
- (11) MC CABLE BETWEEN COUNTER RECEPTACLES.
- UNDERGROUND CONDUITS, SEE SITE PLAN. EC SHALL F ELD VERIFY CONDUIT LOCATIONS, EXTEND 2" AT&T CONDUIT AND 2" COMCAST CONDUIT NTO BU LDING AND ROUTE TO PHONE BOARD. CORE-DRILL WALL AS REQUIRED AND SEAL.
- EXTERIOR RATED FOR SERVICE ENTRY. MAIN DISCONNECT AND C/T COMPARTMENT PREVIOUSLY PERMITTED. EC SHALL FIELD VERIFY WITH SITE UTILITY CONTRACTOR AND ADJUST CONDUIT ENTRY LOCATION.
- PROV DE 2-JBOXES RECESSED FOR TEST STATION AND ALARM/STROBE MOUNTED AT 5'-0" AND AT 7'-6" AFF. PROV DE 3/4" CONDUIT BETWEEN J-BOXES AND EXTEND 3/4" CONDUIT UP TO STRUCTURE, PROVIDE NYLON PULL-STR NG. REFER TO MECHANICAL



NOTE: THE LLUSTRATED MOUNTING HEIGHTS ARE TYPICAL. SPECIAL HEIGHTS ARE NOTED AS FOLLOWS - CEILING - ABOVE COUNTER RECEPTACLE RECEPTACLES -4"x4" BOX W/ RING - SWITCH COVER FOR S NGLE GANG FACE PLATE FOR -TELEPHONE OR DATA COUNTER -OUTLET. F NISHED FLOOR **CUSTOMER SIDE** EMPLOYEE SIDE FLOOR BOX, 4-PLEX RECEPTACLE — POWER CONDUITS

TYPICAL OUTLET MOUNTING HEIGHTS

BOTTOM SHELF 4-PLEX OUTLET WITH ISOLATED GROUND. SEE AFTER COUNTERS HAVE BEEN DETAIL 4/E2. TYPICAL. SET, THEN CONTRACTOR SHALL CREATE OPEN HOLES ABOVE EACH OUTLET FOR ACCESS TO EACH BOX SHALL BE THE OUTLETS AND THE JUNCTION BOX. A M NIMUM OF (2) 3/16" x COUNTER BY 1-1/2" "TAPCON" CONCRETE OWNER, TYPICAL GFI BREAKEF PLP-20 **① ③** —PHONE/DATA — — -PHONE/DATA-PHONE/DATA -FLOOR MOUNTED RECEPTACLES UNDER COUNTERS FRONT DOOR

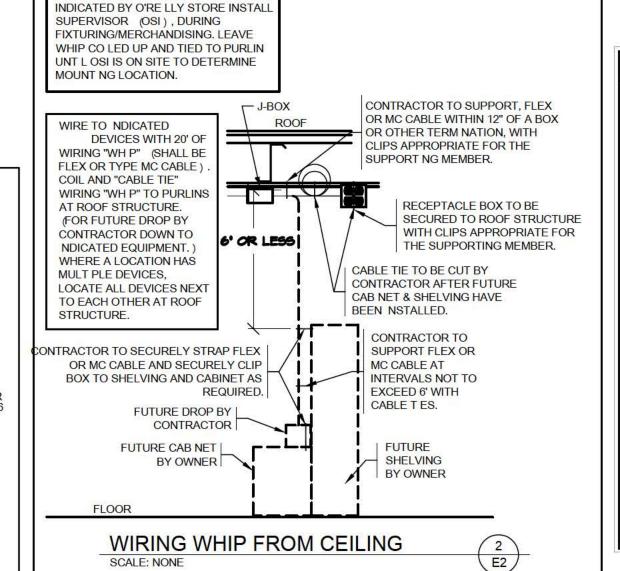
ALL PANELBOARDS, TRANSFORMERS, TRANSFER SWITCH KIT AND DISCONNECTS WILL BE SUPPLIED BY THE OWNER (O'REILLY). ELECTRICAL GEAR SHALL BE DIRECT ORDERED AND/OR RELEASED FROM THE LISTED ELECTRICAL EQUIPMENT DISTRIBUTOR LISTED ON SHEET E3.

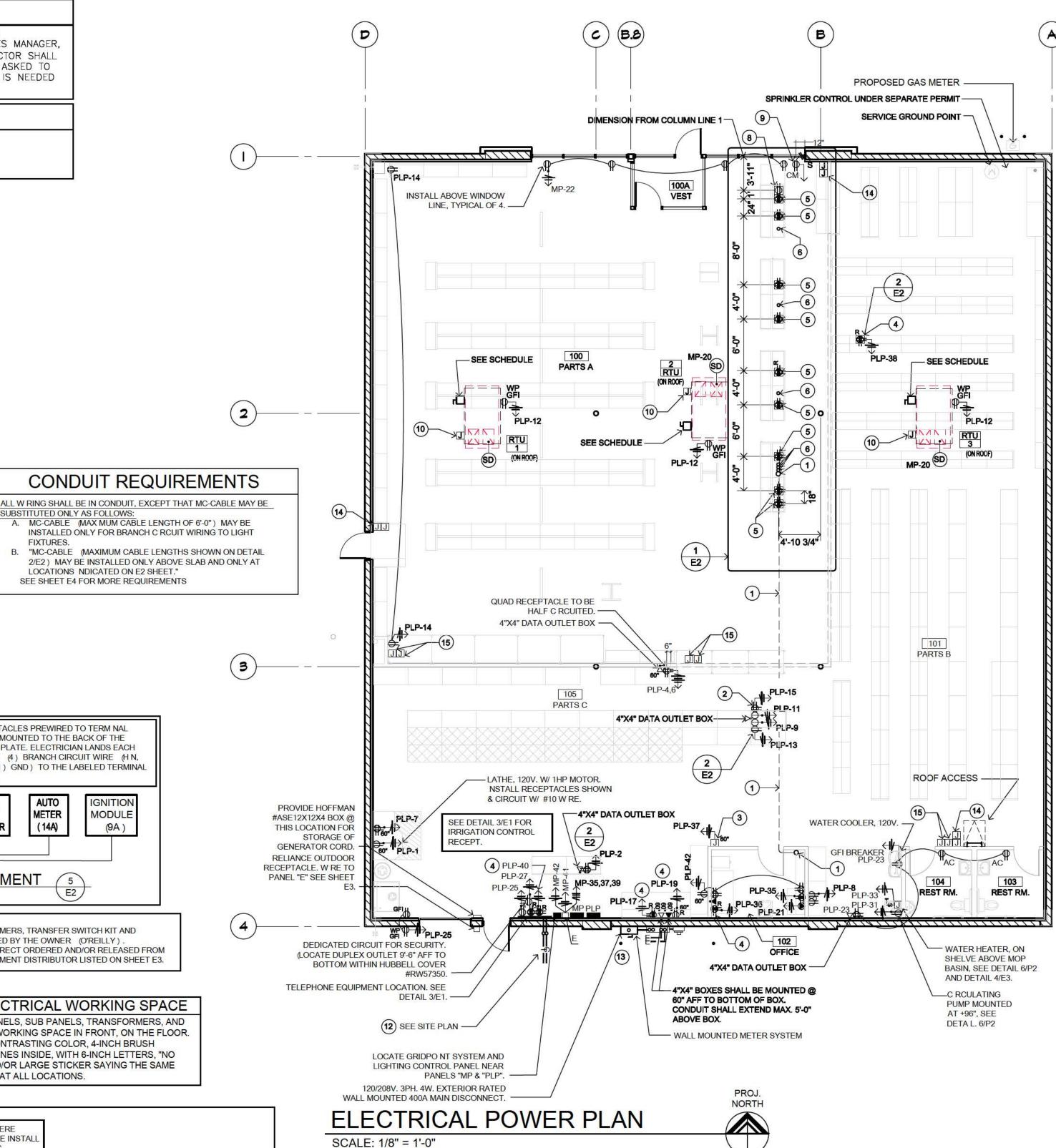
SUBSTITUTED ONLY AS FOLLOWS:

## MARKING OF ELECTRICAL WORKING SPACE IN FRONT OF ALL METER PANELS, SUB PANELS, TRANSFORMERS, AND

DISCONNECTS, PROVIDE A WORKING SPACE IN FRONT, ON THE FLOOR. RECTANGLE, PAINT WITH CONTRASTING COLOR, 4-INCH BRUSH STROKES WITH DIAGONAL LINES INSIDE, WITH 6-INCH LETTERS, "NO STORAGE" BLOCKED IN, AND/OR LARGE STICKER SAYING THE SAME THING. 4'-0" DEPTH TYPICAL AT ALL LOCATIONS.

CONTRACTOR TO MOUNT WHERE





## **GENERAL INSTALLATION NOTES:**

- I. PROVIDE A METAL IDENTIFICATION TAG WHERE THE GROUNDING CONDUCTOR IS CONNECTED TO THE GROUND ELECTRODE WITH A APPROVED GROUND STRAP. PROVIDE TAG AND OR STRAP AS REQUIRED UNDER BASE BID. ALL GROUNDING ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR RIGID HEAVY WALL CONDUIT.
- 2. PROVIDE BONDING JUMPER INSTALLATION ACROSS THE WATER MAIN PER LOCAL REQUIREMENTS. PROVIDE AS REQUIRED UNDER BASE BID.
- 3. BONDING BUSHINGS SHALL BE INSTALLED ON ALL SERVICES.
- 4. FURNISH AND INSTALL NEW POWER PANEL BRANCH SERVICE FEEDERS AS NOTED ON PLANS. FEEDERS SHALL BE INSTALLED IN COMPLIANCE WITH THE LOCAL AUTHORITY. PROVIDE NEW BREAKERS AS REQUIRED.
- 5. VERIFY AND MAINTAIN A MINIMUM OF 36" CLEAR IN FRONT OF PANELS, ALL PER THE LOCAL AUTHORITY
- 6. ALL POWER CIRCUITS SHALL BE IN EMT CONDUIT, UNLESS OTHERWISE NOTED. NO MORE THAN 6 RECEPTACLES ON ANY NEW CIRCUIT OR AS NOTED ON PLANS. CIRCUITS ON THE SAME PHASE SHALL NOT SHARE A NEUTRAL. ADJUST FEEDER AS REQUIRED.
- 7. ELECTRICAL CONTRACTOR SHALL NOT PULL HVAC CONTROL WIRE THROUGH PANEL PER THE LOCAL AUTHORITY.
- 8. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE PROPER GROUNDING THROUGH SEALTIGHT OR FLEX TO POWER PANEL GROUNDING CONDUCTOR (E.G.C.)
- 9. PANEL CIRCUIT NUMBER AND OR HOMERUNS SHOWN ARE INTENDED TO BE A COMPLETED OPERATIONAL CIRCUIT. EXTEND CIRCUIT TO ASSOCIATED PANEL AND MAKE FINAL CONNECTION AS REQUIRED. VERIFY FIELD CONDITIONS AND INCLUDE IN THERE BID.
- 10. EMERGENCY LIGHTING SHALL BE BATTERY BACK-UP TYPE. SAID EQUIPMENT SHALL BE FURNISHED BY OWNER AND INSTALLED BY EC. PROVIDE ALL REQUIRED WIRE CIRCUIT/ CONTROL FEEDERS. EC SHALL VERIFY EM LIGHTING WITH SUPPLIER AND PROVIDE ANY ADDITIONAL FIXTURES AS
- 11. ANY AND ALL RESPONSIBILITY CONFLICTS NOTED WITHIN THE ELECTRICAL PLANS AND SPECIFICATION SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL THE GREATER OF THE CONFLICTS AND SHALL BE INCLUDED IN THE BASE BID PRICE

/1\ 1/13/20 REVISIONS