

SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49388 ITEM 301 ID#6089280301A

SHEET TITLE:

LAB ELECTRICAL
DETAILS

SHEET NO.:

LE12



BASIC CIRCUITING METHODS

RECEPTACLES IN RACEWAYS SHALL BE AS FOLLOWS:

1. UNLESS OTHERWISE NOTED, NEMA 5-20R RECEPTACLES IN RACEWAYS ARE GENERAL PURPOSE RECEPTACLES. GENERALLY, NO MORE THAN FOUR GENERAL PURPOSE RECEPTACLES ARE CONNECTED TO A 20 AMPERE, 120 VOLT CIRCUIT. GENERAL PURPOSE RECEPTACLES SHALL BE WIRED AND CIRCUITED AS FOLLOWS.
 - A. FOR A SINGLE 20 AMPERE, 120 VOLT CIRCUIT HOMERUN ASSIGNED TO A RACEWAY, RECEPTACLES IN THE RACEWAY SHALL BE WIRED TO THAT CIRCUIT.
 - B. FOR MULTIPLE 20 AMPERE, 120 VOLT CIRCUIT HOMERUN ASSIGNED TO A RACEWAY, GENERAL PURPOSE RECEPTACLES SHALL BE WIRED ALTERNATELY IN ACCORDANCE WITH THE NUMBER OF ASSIGNED CIRCUITS (EXAMPLE: FOR TWO ASSIGNED CIRCUITS 1-3, RECEPTACLES SHALL BE WIRED AS 1, 3, 1, 3, 1, 3, 1, ETC. FOR THREE ASSIGNED CIRCUITS 1-3-5, RECEPTACLES SHALL BE WIRED AS 1, 3, 5, 1-3-5, 1, 3, ETC.) SEE PANEL SCHEDULES FOR CIRCUIT DESIGNATIONS.
2. NEMA 5-20R RECEPTACLES ON DEDICATED CIRCUITS ARE EACH DESIGNATED WITH THEIR ASSIGNED CIRCUITS.
3. 208 VOLT, 120/208 VOLT AND RECEPTACLES ARE EACH DESIGNATED WITH THEIR ASSIGNED CIRCUITS.
4. WHERE STANDARD CHEMICAL HOODS, WITH TWO DUPLEX RECEPTACLES AT EACH SIDE OF THE HOOD, ARE ASSIGNED WITH TWO CIRCUITS, RECEPTACLES SHALL BE WIRED ALTERNATELY FOR THE TWO ASSIGNED CIRCUITS.
5. SEE ILLUSTRATIVE PLANS "A" AND "B". PLAN "A" ILLUSTRATE ACTUAL POWER LAYOUT AS SHOWN ON FLOOR PLANS. PLAN "B" ILLUSTRATES ACTUAL CIRCUITING THE CONTRACTOR HAS TO EXECUTE.



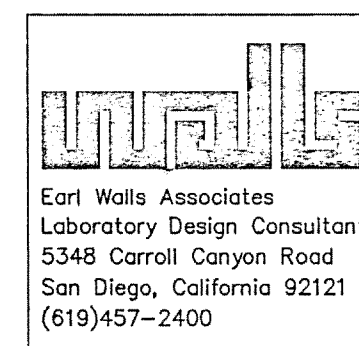
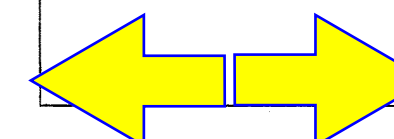
3 RACEWAY FEED AT ISLAND BENCH



4) RACEWAY FEED AT ISLAND BENCH



AS BUILT

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DATE:	5/16/94
PROJECT#:	8962
DESIGNED BY:	JSG
DRAWN BY:	GRM
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SHEET NO.: