L1 is off \$ 12 is on 2 - ; | luminated (12); not (illumin ated (21)) not (illuminated (L1)) illuminated (12). 179H(12), OR(12), continuous (12, outside). ok(12), cantinous(12, outSide). Continuous (12, out side). Connected - to(12, W4), continous(W4, out side) Continous (WY, outside). Connected to (W4, W3), continous (W3, Outside). UP(83), Continous (W3, outside). Continous (W3, outside). Connected\_to(WB, WS), continous(WS, outside). OK (cbl), controus (45, outside). Continues (WS, outside). Connected\_to(ws,outside) true.

b) both LI & LZ are on ? 2 - : Unuminated (11); not (illuminated (12)). not (illuminated (L2)). illuminated (11). light(L1), OK(L1), continous (L2, outside). Continous (U, OH Side). Connected\_to(LI, Wo), Continous(Wo, outside). Continous (WO, outside). Connected\_to(WO, WI), cont mous(WI, outside). Connected - to (wo, v2), continous (W2, outside). uP(81), down(82), continous (w3, outside); down(S), uP(S2), Continous (W3, outside). Cowt nous (w3, outside). Connected\_to(w3, w5), continous(ws, outside) OK(Cbl), Continues (W5, outside). Continous (WS, outside). Connected to (ws, outside). true.

c) both 21\$ L2 off 2-not(illuminated(21)); not(illuminated(22)).
not(illuminated(21)).
not(illuminated(22)).