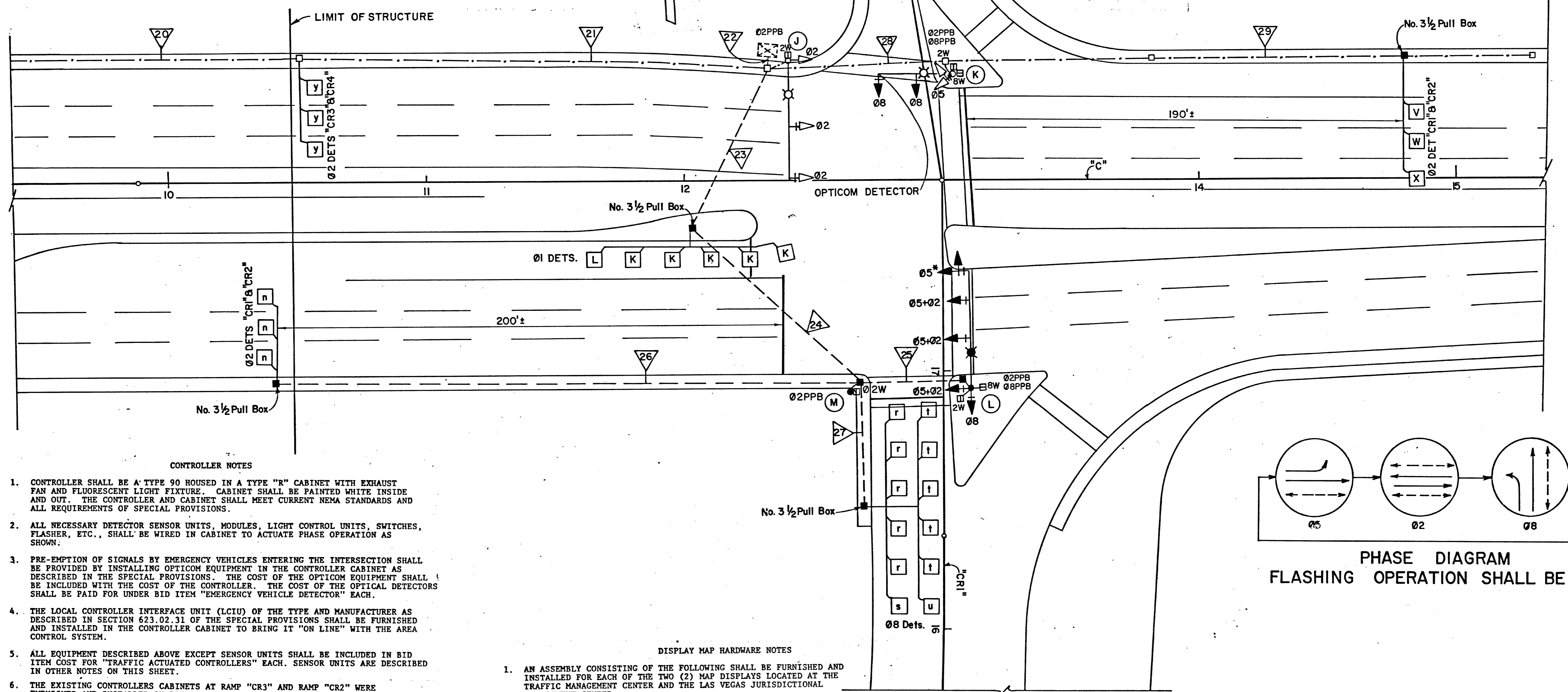


NOTE, INTERCEPT EXISTING CONDUIT RUN NO. 23 (1 1/2" CONDUIT) AT LOCATION SHOWN WITHIN EXISTING SIDE WALK AREA AND INSTALL A NEW NO. 3 1/2 PULL BOX.

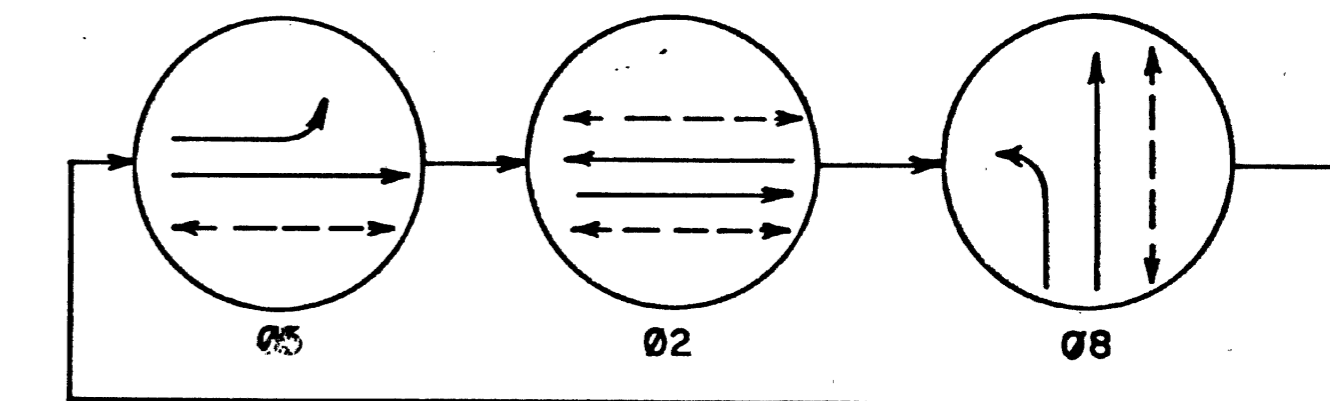


CONTROLLER NOTES

1. CONTROLLER SHALL BE A TYPE 90 HOUSED IN A TYPE "R" CABINET WITH EXHAUST FAN AND FLUORESCENT LIGHT FIXTURE. CABINET SHALL BE PAINTED WHITE INSIDE AND OUT. THE CONTROLLER AND CABINET SHALL MEET CURRENT NEMA STANDARDS AND ALL REQUIREMENTS OF SPECIAL PROVISIONS.
2. ALL NECESSARY DETECTOR SENSOR UNITS, MODULES, LIGHT CONTROL UNITS, SWITCHES, FLASHER, ETC., SHALL BE WIRED IN CABINET TO ACTUATE PHASE OPERATION AS SHOWN.
3. PRE-EMPTION OF SIGNALS BY EMERGENCY VEHICLES ENTERING THE INTERSECTION SHALL BE PROVIDED BY INSTALLING OPTICOM EQUIPMENT IN THE CONTROLLER CABINET AS DESCRIBED IN THE SPECIAL PROVISIONS. THE COST OF THE OPTICOM EQUIPMENT SHALL BE INCLUDED WITH THE COST OF THE CONTROLLER. THE COST OF THE OPTICAL DETECTORS SHALL BE PAID FOR UNDER BID ITEM "EMERGENCY VEHICLE DETECTOR" EACH.
4. THE LOCAL CONTROLLER INTERFACE UNIT (LCIU) OF THE TYPE AND MANUFACTURER AS DESCRIBED IN SECTION 623.02.31 OF THE SPECIAL PROVISIONS SHALL BE FURNISHED AND INSTALLED IN THE CONTROLLER CABINET TO BRING IT "ON LINE" WITH THE AREA CONTROL SYSTEM.
5. ALL EQUIPMENT DESCRIBED ABOVE EXCEPT SENSOR UNITS SHALL BE INCLUDED IN BID ITEM COST FOR "TRAFFIC ACTUATED CONTROLLERS" EACH. SENSOR UNITS ARE DESCRIBED IN OTHER NOTES ON THIS SHEET.
6. THE EXISTING CONTROLLERS CABINETS AT RAMP "CR3" AND RAMP "CR2" WERE FURNISHED AND INSTALLED ON PREVIOUS CONTRACT (NO. 2014) TO PROVIDE FOR PHASING SHOWN AS SHOWN ON SHEETS T-1 & T-2. DETECTOR CABLES SHALL BE WIRED TO EXISTING CHANNELS PROVIDED ON PREVIOUS PROJECT.
7. A CENTRAL MODEM AS DESCRIBED IN SPECIAL PROVISIONS IS REQUIRED WITH THIS CONTROLLER AND IS TO BE INSTALLED IN T.M.C. PANEL AS DESCRIBED.

DISPLAY MAP HARDWARE NOTES

1. AN ASSEMBLY CONSISTING OF THE FOLLOWING SHALL BE FURNISHED AND INSTALLED FOR EACH OF THE TWO (2) MAP DISPLAYS LOCATED AT THE TRAFFIC MANAGEMENT CENTER AND THE LAS VEGAS JURISDICTIONAL MANAGEMENT CENTER.
 - a. TWO (2) MAP LAMP DRIVER P.C. BOARDS (ONE (1) MASTER AND ONE (1) SLAVE). THE BOARDS SHALL BE AUTOMATION DISPLAY, INC., NO. 2000-803B. THEIR ADDRESS IS 3833 NORTH WHITE AVENUE, EAU CLARE, WISCONSIN, 54701. PHONE (715) 834-9595.
 - b. ONE (1) LAMP SOCKET ASSEMBLY FOR CHARLESTON BOULEVARD-SANDHILL RD. INTERSECTION. (THE EXISTING LAMP SOCKET AT THE CHARLESTON BLVD. INTERSECTION WITH RAMPS "CR3" AND "CR1", IS ADEQUATE FOR THE ADDITION OF RAMPS "CR2" AND "CR1").
 - c. THREE (3) LAMP SOCKET ASSEMBLIES FOR SYSTEM DETECTORS (LETTERS aa, bb, cc).
 - d. SOCKET ASSEMBLIES HAVE BEEN PROVIDED IN PREVIOUS CONTRACT FOR THE FOLLOWING SYSTEM DETECTORS: f, h, i, o, p, s, u, v, w, x (TOTAL OF 10).
2. THE PRICE BID FOR UPDATING EACH DISPLAY MAP SHALL BE PAID FOR UNDER BID ITEM "DISPLAY MAP HARDWARE ASSEMBLY", EACH, AND SHALL INCLUDE ALL MATERIAL, LABOR, TRANSPORTATION AND INCIDENTAL COSTS. THE TOTAL UNITS FOR THIS INTERSECTION IS ONE (CHARLESTON BLVD. AND SANDHILL RD.).



PHASE DIAGRAM
FLASHING OPERATION SHALL BE ALL RED

NOTES FOR LOOP DETECTOR AMPLIFIER UNITS AND CHANNELS

1. EACH LOOP DETECTOR LEAD-IN CABLE (IDENTIFIED BY A LOWER CASE ALPHABETICAL LETTER) REPRESENTS A SEPARATE SENSOR UNIT OR CHANNEL AS DESCRIBED IN "VEHICLE DETECTORS" SECTION OF THE SPECIAL PROVISIONS SENSOR. UNITS SHALL BE DETECTOR SYSTEM, CANOGA CONTROLS OR APPROVED EQUAL. COST OF SENSOR UNITS WILL BE PAID FOR UNDER BID ITEM "LOOP DETECTOR AMPLIFIER CHANNELS (NEW BACINET)" EACH.
2. ON SHEET T-1 LOOPS "a", "b", "c", "j", "jj", "i", WILL REQUIRE A SINGLE CHANNEL EACH FOR LOCAL USE. LOOPS "aa", "bb", "cc", AND ONE SPARE CHANNEL (FOR PHASE 2) SHALL BE WIRE IN AS DUAL TYPES (FOR BOTH THE SYSTEM AND THE LOCAL CONTROLLER USE). A TOTAL OF 10 AMPLIFIER UNITS OR CHANNELS REQUIRED.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC SIGNAL SYSTEM
FOR
CHARLESTON BLVD AT
RAMPS "CR1" & "CR2"**

46066