

SERVICE NOTES

- 1) INSTALL A NEW SERVICE PEDESTAL AT "CM"31+75.600+/- 26.000m LT.+/- (BACK OF SIDEWALK). THE EXACT LOCATION SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.
- 2) THE SERVICE PEDESTAL SHALL BE A 100 AMP, 120/240 VOLT SINGLE PHASE 3 WIRE UNDERGROUND FED SINGLE METER SERVICE PEDESTAL. SUPPLY THE FOLLOWING BREAKERS
 - (1) 100 AMP, 120 VOLT, DOUBLE POLE BREAKER FOR A MAIN BREAKER
 - (1) 60 AMP, 120 VOLT, SINGLE POLE BREAKER FOR THE SIGNAL SYSTEM
 - (1) 40 AMP, 120 VOLT, SINGLE POLE BREAKER FOR THE INTERSECTION LIGHTING
 - (1) 15 AMP, 120 VOLT, SINGLE POLE BREAKER FOR FUTURE USE
- 3) THE SERVICE CABINET AND ALL OF ITS CONTENTS SHALL MEET ALL N.E.C. UL AND LOCAL POWER PROVIDERS REQUIREMENTS FOR A METERED SERVICE.
- 4) ALL COSTS ASSOCIATED WITH THE METERED SERVICE INCLUDING CONDUIT AND CONDUCTORS ARE INCLUDED IN THE BID ITEM 623 0888, "UNDERGROUND ELECTRICAL SERVICE", EACH.
- 5) EQUIP THE SERVICE PEDESTAL WITH A PHOTO ELECTRIC CELL AND A BYPASS TEST SWITCH THAT WILL CONTROL THE INTERSECTION LIGHTING
- 6) DISCONNECT EXISTING SIGNAL SYSTEM FROM THE EXISTING POLE MOUNTED SERVICE AFTER NEW SIGNAL SYSTEM IS OPERATIONAL. LEAVE EXISTING SERVICE TO FEED EXISTING STREET LIGHTING CIRCUITS

CONTROLLER NOTES

- 1) INSTALL A TYPE "R" CABINET WITH A 2070N CONTROLLER AT "CM" 31+64.000 +/- 15.150m LT.+/-, THE EXACT LOCATION SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER. TO BE PAID FOR UNDER BID ITEM 623 0602, "TRAFFIC ACTUATED CONTROLLER, 2070N", EACH
- 2) EQUIP THE CONTROLLER CABINET WITH A 16 POSITION LOAD BAY SWITCH.
- 3) THE CONTROLLER SHALL CONFORM TO CALTRANS TRAFFIC ELECTRIC EQUIPMENT SPECIFICATIONS (TEES), LATEST REVISION.
- 4) THE CABINET SHALL CONFORM TO THE CLARK COUNTY REGIONAL TRANSPORTATION COMMISSION SPECIFICATIONS, LATEST REVISION.
- 5) DELIVER THE CONTROLLER TO GERRY deCAMP (702) 229-6611 (L.V.A.C.T.S.) 10 WORKING DAYS PRIOR TO INSTALLATION AND TURN ON FOR SOFTWARE INSTALLATION.
- 6) INSTALL A NEW "OPTICOM" PRIORITY CONTROL SYSTEM BY "3M". THE CABLE SHALL BE "3M" MODEL M138 OR APPROVED EQUAL, TO BE PAID FOR UNDER BID ITEM 623 2212, "3 CONDUCTOR No. 20 CABLE", LINM. THE PHASE SELECTOR SHALL BE A OPTICOM MODEL 760 CARD RACK WITH (2) 752 ENCODED PHASE SELECTOR CARDS. INSTALL 1 OPTICOM MODEL 722 OPTICAL DETECTOR ON POLE B (CHARLESTON BLVD.) AND 2 OPTICOM MODEL 711 OPTICAL DETECTORS ON POLES C (WESTWIND RD.) AND D (UPLAND BLVD.), TO BE PAID FOR UNDER BID ITEM 623 0524, "EMERGENCY VEHICLE DETECTOR", EACH.

POLE NOTES

- 1) INSTALL POLES A, B, C, D, E AND F. POLE LOCATIONS MAY BE ADJUSTED IN FIELD BY THE RESIDENT ENGINEER.
- 2) INSTALL (4) 2.4m ILLUMINATED STREET NAME SIGN ON POLES B, C, D AND E. TO BE PAID FOR UNDER BID ITEM 623 2284, "ILLUMINATED STREET NAME SIGN, DOUBLE FACE (2.4m)", EACH. SIGNS SHALL BE ALL UPPER CASE LETTERS. SEE TABLE FOR SIGN LETTERING AND PLACEMENT.
- 3) RED INDICATION ON ALL NEW VEHICULAR SIGNAL HEADS SHALL BE EITHER THE "DIALIGHT" PART No. 430-1210 OR 430-1310. AN APPROVED EQUIVALENT MAY BE USED BUT THE "AllInGoP" TECHNOLOGY MUST BE USED.
- 4) ATTACH A STANDARD TRAFFIC SIGNAL SIGN NLU-206 (900mm X 750mm) ON POLES C AND D (UPLAND BLVD./WESTWIND DR.), TO BE PAID FOR UNDER BID ITEM 623 2312, "TRAFFIC SIGNAL SIGN", SOM.
- 5) ATTACH BLOCK NUMBER SIGNS ON POLES B, C, D AND E. SIGNS SHALL COMPLY WITH THE UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS, CLARK COUNTY AREA, DRAWING NUMBER 404.420. TO BE PAID FOR UNDER BID ITEM 623 2312, "TRAFFIC SIGNAL SIGN", SOM.
- 6) LUMINAIRES SHALL BE 120 VOLT 400 WATT, HIGH PRESURE SODIUM VAPOR I.E.S. TYPE III SEMI-CUTOFF, MEDIUM DISTRIBUTION, GENERAL ELECTRIC MDCL40S1A12FMC31 OR APPROVED EQUAL.
- 7) SEE SHEET T-15 FOR GROUNDING PLATE DETAIL FOR ALL SIGNAL POLES
- 8) INSTALL PEDESTRIAN PUSH BUTTONS ON POLE B, D, F, H. PEDESTRIAN PUSH BUTTONS SHALL HAVE A "LED" CONFIRMATION INDICATION LIGHT. USE "PELCO" MODEL SE-2019-4 (REQUIRES (1) MODEL SE-1016 PED ISOLATOR/LED LATCH MODULE, AND (4) SE-0150 UNLATCH CIRCUIT MODULE) OR AN APPROVED EQUAL. TO BE PAID FOR UNDER BID ITEM 623 0504 "PEDESTRIAN PUSH BUTTON WITH SIGN", EACH.
- 9) INSTALL A R10-3b SIGN ON ALL PEDESTRIAN PUSH BUTTONS.
- 10) DELIVER EXTRA PEDESTRIAN PUSH BUTTON W/ SIGN TO THE CITY OF LAS VEGAS. DELIVER TO 3104 E. BONANZA RD. LAS VEGAS.
- 11) WIRE POLES "B" AND "E" FOR FUTURE TURN SIGNAL HEADS.

VIDEO IMAGE DETECTION NOTES

- 1) INSTALL A VIDEO IMAGE DETECTION SYSTEM. VIDEO IMAGE DETECTION SHALL BE AUTOSCOPE 2004 OR PEEK VIDEO TRAK-900. OTHER VIDEO DETECTION SYSTEMS WILL NOT BE ACCEPTED. ALL COMPONENTS OF THE VIDEO IMAGE DETECTION SYSTEM SHALL COMPLY WITH CLARK COUNTY SPECIFICATIONS. TO BE PAID FOR UNDER BID ITEM 623 0564, "VIDEO IMAGE DETECTION SYSTEM", EACH.
- 2) INSTALL VIDEO IMAGE DETECTION CAMERAS AS PER MANUFACTURERS RECOMMENDATION ON POLES "B", "C", "D" AND "E". TO BE PAID FOR UNDER BID ITEM 623 0566, "VIDEO IMAGE DETECTION CAMERA", EACH.
- 3) THE VIDEO DETECTION CAMERAS SHALL BE CAPABLE OF COVERING ALL THROUGH TRAVEL LANES AS WELL AS ANY TURNING MOVEMENTS.
- 4) THE VIDEO DETECTION CAMERAS SHALL BE CAPABLE OF DETECTION A MINIMUM OF 35M BEHIND THE STOP BAR.
- 5) POWER FOR VIDEO IMAGE DETECTION CAMERAS SHALL BE SUPPLIED VIA A 3 CONDUCTOR No. 14 CABLE.
- 6) COAXIAL CABLE SHALL BE INSTALLED TO EACH VIDEO IMAGE DETECTION CAMERA. THE COAXIAL CABLE SHALL BE TYPE RG-59, BELDEN 8281, OR APPROVED EQUIVALENT. TO BE PAID FOR UNDER BID ITEM 623 2270, "COAXIAL CABLE", LINM.

GENERAL NOTES

- 1) CONDUIT RUNS ARE SHOWN FOR CLARITY OF RUN ONLY.
- 2) ALL SALVAGED EQUIPMENT SHALL BE DELIVERED TO CITY OF LAS VEGAS, ELECTRIC FIELD OPERATIONS, 3104 E. BONANZA RD. LAS VEGAS
- 3) DO NOT REMOVE THE EXISTING SIGNAL SYSTEM UNTIL THE NEW SIGNAL SYSTEM IS INSTALLED AND RUNNING.
- 4) REMOVE AND REINSTALL LVACTS 25 PAIR CONDUCTOR FROM THE EXISTING CONTROLLER TO THE NEW CONTROLLER. (NO DIRECT PAYMENT)
- 5) CONTACT L.V.A.C.T.S. TWO WORKING DAYS PRIOR TO ANY DISCONNECT OR RECONNECT OF L.V.A.C.T.S. CABLE. CONTACT GERRY deCAMP AT (702)229-6611
- 6) PULL BOXES SHALL BE No. 5 UNLESS OTHERWISE SPECIFIED.

POLE SCHEDULE													
No.	STATION	POLE				SIGNALS VEH.			SIG. PED.		PED. BUTTON		
		TYPE	SIGNAL ARM QUAD. LENGTH	LUM. ARM QUAD. LENGTH	TYPE	MOUNT	QUAD.	MOUNT	QUAD.	QUAD.	ARROW		
A	"Cm"31+69.100 15.8m LT.+/-	7	-	-	2	4.6m	1W3C	B-1	1	WS-1	1	3	RT.
B	"Cm"32+02.200 16.3m LT.+/-	35A	3	15.2m	3	4.6m	(2)1W3C 1W3C	M-2 B-1	MAST 1	WS-2	1.5	3 4	LT. RT.
C	"Cm"32+22.000 15.5m LT.+/-	35	4	7.6m	3	4.6m	(2)1W3C	M-2	MAST	-	-	-	-
D	"Cm"31+77.000 15.2m RT.+/-	35	2	7.6m	1	4.6m	(2)1W3C	M-2	MAST	-	-	-	-
E	"Cm"31+99.200 15.2m RT.+/-	35A	1	15.2m	1	4.6m	(2)1W3C 1W3C	M-2 B-1	MAST 3	WS-2	3.5	1 2	LT. RT.
F	"Cm"32+26.200 16.2m RT.+/-	7	-	-	4	4.6m	1W3C	B-1	3	WS-1	2	1	RT.

CONDUIT - CABLE SCHEDULE										
RUN NO.	FROM	TO	CONDUIT SIZE	SIGNAL CABLE	VIDEO CABLE	LIGHTING CIRCUIT	GRND WIRE	INTER-CONNECT	OPTICOM CABLE	SERVICE
1	POWER SOURCE	METERED SERVICE	(1) 50mm							(3) No. 1/0
2	METERED SERVICE	CONTROLLER	(1) 50mm			(2) No. 10	No. 8			(3) No. 4
3	CONTROLLER	CONTROLLER PULL BOX	(4) 80mm	25-25-25 25-25-25	3-3-3-3 3-3-3-3	(2) No. 10	No. 8			(3) 3Cond No. 20
4	CONTROLLER PULL BOX	POLE D	(2) 80mm	25-25-25	3-3-3-3	(2) No. 10	No. 8			3Cond No. 20
5	POLE D	POLE E	(2) 80mm	25-25	3-3	(2) No. 10	No. 8			
6	POLE E	POLE F	(2) 80mm	25		(2) No. 10	No. 8			
7	CONTROLLER PULL BOX	POLE A	(2) 80mm	25-25-25	3-3-3-3	(2) No. 10	No. 8			(2) 3Cond No. 20
8	POLE A	POLE B	(2) 80mm	25-25	3-3-3-3	(2) No. 10	No. 8			(2) 3Cond No. 20
9	POLE B	POLE C	(2) 80mm	25	3-3	(2) No. 10	No. 8			3Cond No. 20
10	-	CONTROLLER	EXISTING					EXISTING 25 PAIR		
11	CONTROLLER	-	EXISTING					EXISTING 25 PAIR		

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STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

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**TRAFFIC SIGNAL
PLANS 107Y3725
CHARLESTON BLVD.
AT UPLAND BLVD.**