

STREET NAME SIGN SCHEDULE

POLE	ORDINAL	STREET NAME*	SUFFIX	BLOCK*	DOUBLE SIDED	NEW/EXISTING
(A)	E	Clark	Ave	1100	YES	NEW
(E)	E	Clark	Ave	1200	YES	NEW

STREET NAME SIGN (SEE CCAUSD No. 404.416, 404.417 AND CLV MODIFIED DETAIL ON SHEET TS-4)
 * CONTRACTOR SHALL VERIFY BLOCK NUMBER AND STREET NAME SPELLING BY CONTACTING CLV PLANNING DEPT. PRIOR TO FABRICATION OF SIGN. 702-229-8353

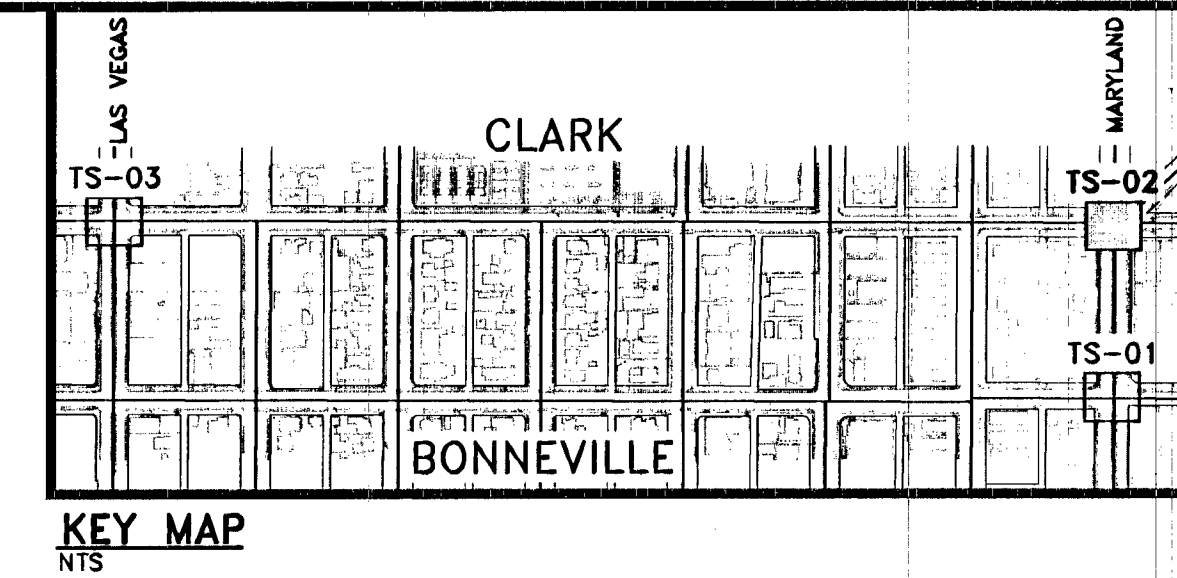
SIGN SCHEDULE

SIGN DESIGNATION	POLE*	HEIGHT	WIDTH	DEPTH	REMARKS
(E)	(A)	R10-27A	30"x38"		EXISTING SIGN
(A)	(A)	R3-18	36"x36"		NEW SIGN

* (X) = EXISTING SIGN, (N) = NEW SIGN

CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	CONDUIT*																											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3 No. 3/0 AWG	SERVICE POINT	SERVICE METER																												
4 No. 2 AWG	SERVICE METER	CONTROLLER																												
1-25 COND. No. 14	CONTROLLER	POLE A																												
1-15 COND. No. 14	CONTROLLER	POLE B																												
1-15 COND. No. 14	CONTROLLER	POLE C																												
1-15 COND. No. 14	CONTROLLER	POLE D																												
1-25 COND. No. 14	CONTROLLER	POLE E																												
1-15 COND. No. 14	CONTROLLER	POLE F																												
1-15 COND. No. 14	CONTROLLER	POLE G																												
2-No. 10 COND.	CONTROLLER	POLE A (INT LIGHTING)																												
2-No. 10 COND.	CONTROLLER	POLE C (INT LIGHTING)																												
2-No. 10 COND.	CONTROLLER	POLE D (INT LIGHTING)																												
2-No. 10 COND.	CONTROLLER	POLE E (INT LIGHTING)																												
2-No. 10 COND.	CONTROLLER	POLE F (INT LIGHTING)																												
1-15 COND. No. 14	CONTROLLER	POLE I																												
1-15 COND. No. 14	CONTROLLER	POLE H																												
LOOP LEAD-IN CABLE (#2 STOP)	CONTROLLER	DET PULLBOX																												
LOOP LEAD-IN CABLE (#2 EXT)	CONTROLLER	DET PULLBOX																												
LOOP LEAD-IN CABLE (#1)	CONTROLLER	DET PULLBOX																												
LOOP LEAD-IN CABLE (#6 STOP)	CONTROLLER	DET PULLBOX																												
LOOP LEAD-IN CABLE (#6 EXT)	CONTROLLER	DET PULLBOX																												
EXISTING 25 PAIR SIC	CONTROLLER (CLARK)	CONTROLLER (BRIDGER)																												
EXISTING 25 PAIR SIC	CONTROLLER (CLARK)	CONTROLLER (BONNEVILLE)																												
1-No. 8 (GREEN)	CONTROLLER TO POLES																													
PULL ROPE	(NUMBER AS SHOWN)																													



CONSTRUCTION NOTES (THIS SHEET ONLY)

- INSTALL TYPE "J" FOUNDATION PER CCAUSD No. 725. INSTALL TYPE VIII "R" CABINET (SEE CCAUSD No. 803) WITH EXHAUST FAN AND THERMOSTAT CONTROL ON TYPE "J" FOUNDATION. INSTALL TYPE 2070N WITH 1B MODULE OR 1B33 CONTROLLER IN TYPE VIII "R" CABINET. THE CABINET AND CONTROLLER SHALL BE SUPPLIED BY THE CONTRACTOR AND APPROVED BY THE CITY OF LAS VEGAS. THESE MATERIALS MUST BE DELIVERED TO CLV TRAFFIC OPERATIONS AT LEAST 14 DAYS PRIOR TO EXPECTED TURN-ON DAY TO BE INSPECTED AND PROGRAMMED. ALL NECESSARY AMPLIFIER UNITS, MODULES, LIGHT CONTROL UNITS, SWITCHES, OPTICOM, FLASHERS, AREA WIDE COMPUTER CONTROL, ETC. SHALL BE SUPPLIED BY THE CONTRACTOR AND INSTALLED IN CABINET TO ACTIVATE THE PHASE OPERATION AS SHOWN. CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT DETAILING ANY CHANGES TO THE CONTROLLER OPERATION OR CABINET CONFIGURATION. CABINET SHALL BE ORIENTED SO MAINTENANCE PERSONNEL SHALL BE FACING TRAFFIC WHEN SERVICING OR AS DIRECTED BY THE FIELD ENGINEER. CONTRACTOR TO STAKE FOUNDATION LOCATION FOR APPROVAL BY ENGINEER PRIOR TO CONSTRUCTION.
- FURNISH AND INSTALL No. 5 PULL BOX MARKED "TRAFFIC SIGNAL" IN ACCORDANCE WITH CCAUSD No. 708.
- FURNISH AND INSTALL No. 7 PULL BOX MARKED "TRAFFIC SIGNAL" IN ACCORDANCE WITH CCAUSD No. 707.
- ALL VEHICLE SIGNAL INDICATIONS AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE SUPPLIED AND INSTALLED WITH LIGHT EMITTING DIODE (LED) SIGNAL MODULES.
- FURNISH AND INSTALL PRE-FORMED 8"x8" LOOPS FOR MULTIPLE LOOP SYSTEM (SEE SHEET TS-04 FOR LAYOUT AND DETAILS).
- FURNISH AND INSTALL GTT 721 OPTICOM SENSORS ON THE TRAFFIC SIGNAL HEAD(S) IDENTIFIED ON PLAN. FURNISH AND INSTALL ALL EQUIPMENT TO MAKE SYSTEM OPERATIONAL. RUN OPTICOM DETECTOR CABLE, 3M MODEL 138 FROM THE CONTROLLER TO THE SENSORS INDICATED ON PLANS AS SHOWN IN THE CONDUIT AND WIRE SCHEDULE. WIRE CONTROLLER AND PROVIDE ONE (1) GTT MODEL 784 PHASE SELECTOR.
- FURNISH AND INSTALL 400 WATT HIGH PRESSURE SODIUM INTERSECTION LIGHTING AS INDICATED ON PLANS AND SECTION 623 OF THE SPECIAL PROVISIONS. LIGHTING SHALL CONFORM TO CITY OF LAS VEGAS STANDARDS.
- FURNISH AND INSTALL INTERNALLY-ILLUMINATED STREET NAME SIGN ON MAST ARM. SEE STREET NAME SIGN SCHEDULE THIS SHEET.
- FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTONS ON POLE.
- FURNISH AND INSTALL COUNTDOWN TYPE PEDESTRIAN SIGNAL HEADS ON POLE.
- FURNISH AND INSTALL SIGN ON MAST ARM OR SIGNAL POLE. SEE SIGN SCHEDULE ON THIS SHEET FOR SIGN DESIGNATION AND SIZE.
- FURNISH AND INSTALL NEW 200 AMP 120/240 VAC SERVICE PEDESTAL (SEE NOTES ON TS-04 FOR SERVICE PEDESTAL EQUIPMENT).
- FURNISH AND INSTALL No. 5 PULL BOX MARKED "ELECTRIC" IN ACCORDANCE WITH CCAUSD No. 708.
- INTERCEPT EXISTING PULL BOX AND INSTALL NEW CONDUIT FOR LOOP DETECTORS IN ACCORDANCE WITH CCAUSD No. 732.
- REMOVE AND SALVAGE EXISTING PULL BOX AND INSTALL TYPE 200 VAULT MARKED "FIBER OPTIC" IN ACCORDANCE WITH CCAUSD No. 762. CONNECT EXISTING CONDUITS TO VAULT AND PROTECT EXISTING CABLES IN PLACE.
- REMOVE EXISTING SERVICE AND METER FROM STREET LIGHT POLE. SPLICE EXISTING STREET LIGHTING CIRCUIT CONDUCTORS IN POLE BASE TO MAKE AN OPERATIONAL LIGHTING CIRCUIT.
- REMOVE EXISTING SIGNAL INTERCONNECT CABLE (SIC) BETWEEN EXISTING TRAFFIC SIGNAL CABINET AT MARYLAND PKWY / BONNEVILLE AVE AND MARYLAND PKWY / CLARK AVE. FURNISH AND INSTALL NEW 25 PAIR SIC IN EXISTING AND NEW CONDUITS BETWEEN NEW TRAFFIC SIGNAL TO CONTROLLER CABINETS AT MARYLAND PKWY / CLARK AVE AND MARYLAND PKWY / BONNEVILLE AVE. TERMINATE SIC IN CABINETS TO PROVIDE A FULLY FUNCTIONAL INTERCONNECT SYSTEM (SEE SHEET TS-01).
- PROTECT EXISTING STREET LIGHTING CONDUCTORS IN PLACE FOR NEW STREET LIGHT CIRCUIT.
- FURNISH AND INSTALL NEW 3" CONDUIT WITH PULL ROPE AND SERVICE CONDUCTORS PER NV ENERGY REQUIREMENTS.
- FURNISH AND INSTALL NEW 2" CONDUIT WITH PULL ROPE.
- INTERCEPT EXISTING STREET LIGHTING CONDUIT AND FURNISH AND INSTALL No. 5 PULL BOX MARKED "STREET LIGHTING" IN ACCORDANCE WITH CCAUSD No. 328 AND 327.
- FURNISH AND INSTALL 2-#4 AWG AND 1-#8 STREET LIGHTING CONDUCTORS IN NEW 2" CONDUIT AND EXISTING CONDUITS FROM NEW SERVICE PEDESTAL TO EXISTING STREET LIGHT POLE. CONNECT NEW CONDUCTORS TO EXISTING STREET LIGHTING CIRCUIT IN POLE TO REPLACE SERVICE CONNECTION AT 13TH STREET AND CLARK AVENUE STREET LIGHT AND MAKE AN OPERATIONAL LIGHTING CIRCUIT.
- INTERCEPT EXISTING STREET LIGHTING SERVICE CONDUIT AT SERVICE POLE BASE FOR CONNECTION TO NEW SERVICE PEDESTAL. CONNECTION TO EXISTING STREET LIGHTING SERVICE CONDUIT SHALL BE IN ACCORDANCE WITH NV ENERGY REQUIREMENTS.
- INSTALL SIGNAL HEAD WITH GREEN UP ARROW INDICATION PER DETAIL ON SHEET TS-03.
- INSTALL SIGNAL HEAD WITH FLASHING YELLOW ARROW CONFIGURATION PER DETAIL ON SHEET TS-01.
- DISCONNECT CONDUCTORS AND REMOVE. ABANDON EXISTING CONDUIT. CONTRACTOR SHALL COORDINATE DISCONNECT AND REMOVAL WITH NV ENERGY.
- REMOVE AND SALVAGE EXISTING STREET LIGHT POLE AND EQUIPMENT. REMOVE POLE FOUNDATION TO 24" BELOW FINISHED GRADE. SEE ROADWAY SHEETS (RD) FOR DETAILS.
- REMOVE AND SALVAGE EXISTING STREET LIGHT LUMINAIRE AND MAST ARM. SEE ROADWAY SHEETS (RD) FOR DETAILS.
- REMOVE EXISTING TRAFFIC SIGNAL BOX. DISCONNECT AND REMOVE EXISTING WIRE IN CONDUIT LEADING TO BOX (IF PRESENT) AND ABANDON CONDUIT IN PLACE.

GENERAL NOTES (THIS SHEET ONLY)

- CONTRACTOR SHALL VERIFY TYPE AND LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTING SIGNAL POLE FOUNDATIONS.
- CONTRACTOR SHALL INSTALL RED MARKING TAPE 18" BELOW GRADE, ABOVE ALL PROPOSED CONDUITS.
- CONTRACTOR SHALL VERIFY ALL UTILITY CONFLICTS AND OBSTACLES PRIOR TO TRENCHING.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS, INCLUDING LANDSCAPING FROM DAMAGE. ALL IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- ALL STREET LIGHT EQUIPMENT THAT IS TO BE SALVAGED SHALL BE RETURNED TO THE CLV EAST SERVICE YARD. PROVIDE 48 HOUR NOTICE PRIOR TO DELIVERY. CALL 702-229-3661 TO SCHEDULE DELIVERY TIME. CONTRACTOR MUST HAVE A MEANS TO UNLOAD EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EQUIPMENT AND MATERIALS INCURRED IN THIS PROCESS.
- PULL BOX AND VAULT LOCATIONS AND CONDUIT ROUTING ARE SCHEMATIC FOR THE PURPOSES OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH NV ENERGY FOR DISCONNECTION OF EXISTING SERVICE METER AND RECONNECTION OF NEW SERVICE METER TO EXISTING SERVICE POINT.
- SEE SHEET TS-02 FOR CONDUIT TRENCH PATCH STRUCTURAL SECTION. USE CONDUIT TRENCH PATCH STRUCTURAL SECTION IN AREAS OF CONDUIT INSTALLATION THAT ARE OUTSIDE LIMITS OF FULL PAVEMENT RECONSTRUCTION.

POLE AND EQUIPMENT SCHEDULE

POLE	LOCATION STATION AND OFFSET	TYPE HEIGHT FOUND	MAST ARM QUAD LENGTH	LUMINAIRE QUAD LENGTH	VEHICLE SIGNALS				PEDESTRIAN PUSH BUTTON		EMERGENCY VEHICLE DETECTOR	REMARKS		
					TYPE	QUAD	TYPE	QUAD	PHASE	ARROW			QUAD	
(A)	MARYLAND PARKWAY STA 14+32, 44± LT	XX 30' H	2	45'	2	15'	(3) M-2 MA MA 3					ONE-WAY	9 11 12 13 17 33 44	
(B)	MARYLAND PARKWAY STA 14+44, 51± LT	7' H							W-1	TOP	#2	L	4	9 15 16
(C)	MARYLAND PARKWAY STA 14+98, 52± LT	30' H	3	3	15'		B-BT (FYA)	2	W-OT	1	#2	L	2	9 12 15 16 44
(D)	MARYLAND PARKWAY STA 15+08, 4± RT	XX 30' H	4	4	15'				W-OT	2	#1	L	3	9 12 15 16
(E)	MARYLAND PARKWAY STA 14+79, 3± RT	XX-A 30' H	2	55'	2	15'	(4) M-2 B-BT (FYA)	MA 3					ONE-WAY	9 11 12 13 17 44
(F)	MARYLAND PARKWAY STA 14+82, 82± RT	XX 30' H	3	3	15'				W-4T**	1	#6	R	4	9 12 15 16
(G)	MARYLAND PARKWAY STA 14+48, 75± RT	7' H							W-1	TOP	#6	L	4	9 15 16
(H)	MARYLAND PARKWAY STA 15+05, 42± LT	7' H							W-1	TOP	#1	R	3	9 15 16
(I)	MARYLAND PARKWAY STA 14+85, 15± RT	7' H							W-1	TOP	#8	R	3	9 15 16

SEE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (CCAUSD) FOR POLE, POLE FOUNDATION, SIGNAL MOUNTING HARDWARE AND OTHER DETAILS RELATED TO SIGNAL POLE INSTALLATION.
 * ALL POLES, MAST ARMS, AND LUMINAIRES SHALL CONFORM TO THE CITY OF LAS VEGAS STANDARDS. THE LOCATION OF ALL NEW POLE FOUNDATIONS SHALL BE APPROVED BY THE CITY OF LAS VEGAS PRIOR TO CONSTRUCTION.
 ** SEE SHEET TS-04 FOR PEDESTRIAN SIGNAL ASSEMBLY DETAIL (FYA) - FLASHING YELLOW ARROW CONFIGURATION



DATE: APRIL 2011
 CHECKED BY: RC
 DESIGNED BY: RWF
 DRAWN BY: RWF
 SCALE (V): N/A
 SCALE (H): 1"=20'

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PROJECT: BONNEVILLE/CLARK ONEWAY COUPLET PHASE II IMPROVEMENT PLANS

SHEET: TRAFFIC SIGNAL CLARK AVE AND MARYLAND PKWY

DESIGNED BY: RANDY W. CARROLL
 Exp. 12/31/12
 CIVIL
 License No. 151131
 State of NV

SHEET NO. TS-02
 SHEET 27 OF 47
 DRAWING NO. 107V5541
 DE-SIP-0003(160)