SIGNAL SCHEDULE

CITY FURNISHED MATERIAL

	TRAFFIC SIGNAL				POLE					MAST ARM												ANCHOR BOLT			VIDEO DETECTION									PRIORITY CONTROL			CONTRACTOR * PROVIDED LED LENS					
	CONTROLLER		CABINET																																							
	8 PHASE WITH NEMA TS 2, TYPE 1	8 PHASE WITH NEMA TS 2, TYPE 2	NEMA TS 2, TYPE 1 SIZE 5	NEMA TS 2, TYPE 1 SIZE 6	TRAFFIC/PED SIGNAL POLE, SLIP BASE, HARDWARE KIT	MAST ARM SIGNAL POLE (30' TO 65')	MAST ARM SIGNAL POLE (70' TO 75')	DUAL MAST ARM SIGNAL POLE (30' TO 45')		30' MAST ARM	35' MAST ARM	40' MAST ARM	45' MAST ARM AND HARDWARE KIT	50' MAST ARM	55' MAST ARM AND HARDWARE KIT	60' MAST ARM AND HARDWARE KIT	65' MAST ARM	70' MAST ARM	75' MAST ARM	MAST ARM MOUNTED SIGN WITH MOUNTING BRACKETS (SEE NOTE 6)		2" DIA x 66" ANCHOR BOLT W/HARDWARE (SEE NOTE 5)	1" DIA x 36" ANCHOR BOLT W/HARDWARE		LED PEDESTRIAN HEAD LENS w/ COUNT DOWN	VIDEO DETECTION CAMERA MOUNT	VIDEO DETECTION CONTROLLER	VIDEO DETECTION CABLE ASSEMBLY (90' PIGTAIL)	VIDEO DETECTION CABLE 250' SPOOL	VIDEO DETECTION CABLE 500' SPOOL	VIDEO DETECTION CABLE 750' SPOOL	VIDEO DETECTION CABLE 1000' SPOOL		722 TWO CHANNEL TWO DIRECTION DETECTOR	PRIORITY SYSTEM CABLE	754 FOUR CHANNEL PHASE SELECTOR		LED SIGNAL LENS GREEN	LED SIGNAL LENS YELLOW	LED SIGNAL LENS RED	LED SIGNAL ARROW GREEN	LED SIGNAL ARROW YELLOW	LED SIGNAL ARROW RED
LOCATION	EA	EA	EA	EA	EA	EA	EA	EA		EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA		EA	EA		EA	EA	EA	EA	EA	LIN FT	LIN FT	LIN FT	EA	EA	LIN FT		EA	EA	EA	EA	EA	EA
P1					1	1					1									2		4	4		2	1	1						1	2	500	1	2	2	2	1	1	
P2						1										1				2		4			2	1	1										1	1	1	1	1	1
P3	1			1	1	1									1					2		4	4		2	1	1	1									2	2	2	1	1	
P4					1	1				1										2		4	4		2	1	1										2	2	2	1	1	
TOTAL	1			1	3	4				1	1				1	1				8		16	12		8	4	4	1									7	7	7	4	4	1

* CONTRACTOR TO ALSO PROVIDE SIGNAL AND PEDESTRIAN HEADS/ HOUSING UNITS FOR LED LENSES. 1

HIGHWAY LIGHTING SCHEDULE

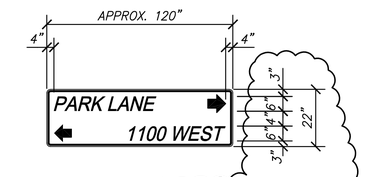
CITY FURNISHED MATERIAL

	POLE			EXTENSION					ARM			
	40' HIGHWAY LUMINAIRE POLE (SLIP BASE)	40' HIGHWAY LUMINAIRE POLE (FIXED BASE)	40' HIGHWAY LUMINAIRE POLE (BARRIER MOUNT)	40' LUMINAIRE EXTENSION (FOR CURVED MAST ARM POLE)	30' LUMINAIRE EXTENSION (FOR CURVED MAST ARM POLE)	40' LUMINAIRE EXTENSION (FOR STRAIGHT MAST ARM POLE)	VERTICAL LUMINAIRE ATTACHMENT		10' LUMINAIRE ARM	15' LUMINAIRE ARM		
LOCATION	EA	EA	EA	EA	EA	EA	EA		EA	EA		
P1				1						1		
P2				1						1		
P3				1						1		
P4				1						1		
TOTAL				4						4		

CONTRACTOR FURNISHED MAST ARM MOUNTED SIGN SCHEDULE

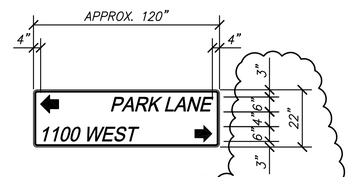
LOCATION	POLE INDENTIFICATION	INSTALLATION OF CITY-FURNISHED MAST ARM MOUNTED SIGN		
		A-2 SIGN		
		CENTER OF SIGN TO END OF MAST ARM	DIRECTIONAL SIGN	EACH
CLARK LANE	P1	10.00'	A	1
	P2	55.00'	C	1
	P3	10.00'	B	1
	P4	25.00'	C	1

SIGNS AND BRACKETS ARE CITY FURNISHED ITEMS. CONTACT CRS FOR COORDINATION THIRTY DAYS PRIOR TO INSTALLATION.



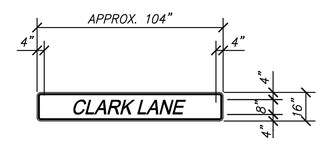
DIRECTIONAL SIGN
6" SERIES C LETTERING;
TYPE IX SHEETING
A

2



DIRECTIONAL SIGN
6" SERIES C LETTERING;
TYPE IX SHEETING
B

2



DIRECTIONAL SIGN
8" SERIES C LETTERING;
TYPE IX SHEETING
C

2

NOTES:

1. DIRECT BURIAL CABLE - STRANDED, SHIELDED BETWEEN JACKETS, INNER JACKET OF POLYEHTYLENE OUTER JACKET OF BLACK POLYETHYLENE (IMSA SPEC. 60-6).

2. SINGLE CONDUCTOR NO. 14 CABLE - CROSSLINKED POLYETHYLENE, STRANDED WIRE (IMSA SPEC. 51-3). TWO CONDUCTOR NO. 14 STRANDED, SHIELDED CABLE - POLYETHYLENE INNER JACKET, OUTER JACKET OF POLYETHYLENE (IMSA SPEC. 50-2).

3. USE CONTROLLER CABINET FOUNDATION CONDUITS AS FOLLOWS:

   A. SIGNAL CIRCUIT CABLES.
   B. VIDEO POWER AND DETECTION CIRCUIT CABLES.
   C. PEDESTRIAN CIRCUIT CABLES.
   D. PEDESTRIAN PUSH BUTTON CIRCUIT CABLES.
   E. DETECTOR CIRCUITS (USE REMAINING CONDUIT AS NEEDED).
   F. 120/240 VOLT POWER CIRCUIT TO THE CONTROLLER CIRCUIT BREAKER OR UNDERGROUND SERVICE PEDESTAL.

4. PROVIDE 3-FEET EXTRA CABLE LENGTH COILED INSIDE EACH JUNCTION BOX FOR EACH CIRCUIT (POWER, SIGNAL, DETECTOR, LIGHTING, ETC.).

5. INSTALL 5/8" x 8' GROUND ROD IN EACH JUNCTION BOX WITH 120 LINE VOLTAGE AND ABOVE.

6. USE RHH-USE-RHW ELECTRICAL CABLE, COPPER, RATED FOR 600 VOLTS.

7. CONTACT THE SERVING POWER COMPANY A MINIMUM OF THIRTY (30) WORKING DAYS BEFORE POWER SERVICE IS REQUIRED.

8. POWER SOURCE - SEE UDOT STD DWG SL 3 FOR UNDERGROUND SERVICE PEDESTAL DETAIL. IF POLE MOUNTED POWER SOURCE IS SPECIFIED SEE UDOT STD DWG SL 6 FOR DETAILS. MAKE ALL ARRANGEMENTS WITH LOCAL POWER COMPANY FOR INSTALLATION AND PAY ALL NECESSARY CONNECTION FEES.

9. PLACE ALL CONDUIT IN SAME TRENCH WHERE POSSIBLE.

10. CONSTRUCT SIGNAL IN A MANNER TO AVOID DAMAGE TO EXISTING UTILITIES. ASSUME RESPONSIBILITY FOR ANY UTILITY DAMAGED BY YOUR CONSTRUCTION OPERATIONS. THE PLANS SHOW BURIED UTILITY LOCATIONS IN THEIR APPROXIMATE LOCATION ONLY.

11. SWAB DRY ALL CONDUITS BEFORE PULLING CABLE.

12. SEE UDOT STD DWG SL 10 FOR CONTROLLER BASE DETAILS INCLUDING REQUIRED CONDUIT SIZE AND QUANTITY.

13. INSTALL COPPER COATED, 3/4" x 10' DRIVEN STEEL GROUND ROD THRU ALL NEW CONTROLLER FOUNDATIONS. TOP OF GROUND ROD TO BE NO GREATER THAN 2" ABOVE TOP OF CONTROLLER CABINET FOUNDATION. SEE UDOT STD DWG SL 10 FOR DETAILS INCLUDING REQUIRED 1 1/2" PVC SLEEVE.

14. EXTEND CONDUIT ENDS INSIDE ALL JUNCTION BOXES A MINIMUM OF 1" TO A MAX. OF 3".

15. PLACE MAST ARM AT 90° TO ROADWAY UNLESS DETAILED OTHERWISE ON PLAN SHEETS.

16. USE LED LENSES FOR TRAFFIC AND PEDESTRIAN SIGNAL HEADS.

17. WIRING AND CONDUIT QUANTITIES ARE ONLY AN ESTIMATE. CONTRACTOR TO VERIFY PRIOR TO BIDDING. DIFFERENCES IN QUANTITY WILL NOT JUSTIFY CHANGE ORDER. CONTRACTOR RESPONSIBLE FOR ALL WIRING QUANTITIES.

NOTES:

1. NOTIFY RESIDENT ENGINEER 4-6 WEEKS PRIOR TO DATE MATERIALS ARE NEEDED.

2. PICKUP FARMINGTON CITY FURNISHED CONTROLLER CABINET AND CONTROLLER EQUIPMENT AT THE REGION SIGNAL LAB. CONTACT FARMINGTON CITY PRIOR TO CONTACTING REGION ELECTRONICS SUPERVISOR, TEN DAYS PRIOR TO DESIRED PICK UP DATE. CONTACT DALE LAKE (801-620-1606).

3. PICKUP FARMINGTON CITY FURNISHED ANCHOR BOLTS, SIGNAL POLE STEEL, AND OTHER ELECTRONICS HARDWARE AT UDOT WAREHOUSE IN SALT LAKE CITY. FURNISH LOADING EQUIPMENT AND PERSONNEL TO LOAD FARMINGTON CITY FURNISHED MATERIALS. CONTACT FARMINGTON CITY PRIOR TO CONTACTING DOUG SNEDDEN, (801) 965-4755, TO SCHEDULE PICK UP. MINIMUM 48 HOURS ADVANCE NOTICE REQUIRED.

4. CONTACT CRS TO REQUEST IN-PROGRESS SIGNAL INSPECTION 8 DAYS PRIOR TO TURN-ON. MINIMUM 24-HOUR ADVANCE NOTICE REQUIRED. THE FOLLOWING WORK SHOULD BE COMPLETE: ALL CONDUIT AND CONDUCTOR RUNS INCLUDING POWER, SIGNAL AND DETECTOR TERMINATIONS, WITH VIDEO CAMERAS MOUNTED AND AIMED.

5. TORQUE MAST ARM SIGNAL POLE ANCHOR BOLTS TO 150 FT-LBS.

6. REFER TO SIGNAL PLAN SHEETS FOR MAST ARM MOUNTED SIGN SCHEDULE.

REGION	CONTACT	PHONE
1	DERYL MEYHEW	801-887-3744

REV.	BY	DATE	DESCRIPTION
2	DE	4/9/06	MODIFIED SIGN MATERIAL AND DIMENSIONS
1	DE	4/9/06	ADDED CONTRACTOR PROVIDED MATERIAL

PRINCIPAL: PAUL J. HIRST
PROJECT MANAGER: MATTHEW P. HIRST
CHECKER: MATTHEW P. HIRST
DRAWN BY: PAUL S. HATCH
SCALE: AS NOTED
DATE ISSUED: 14 APRIL 2006

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FARMINGTON CITY
CLARK LANE & 1100 WEST INTERSECTION
SIGNAL DESIGN
SIGNAL SCHEDULE & NOTES
1100 WEST CLARK LANE
FARMINGTON, UTAH

SG-1
SHEET 11 OF 27
05071C.01
PROJECT NUMBER

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