

ADOT STANDARD DRAWINGS

TRAFFIC SIGNAL AND LIGHTING STANDARDS  
(SHEET 1 OF 2)  
EFFECTIVE AUGUST 2019

REVISION  
DATE

STANDARD  
NUMBER

SUBJECT :  
TRAFFIC SIGNALS AND LIGHTING DETAILS

T.S. 0			ABBREVIATIONS, SYMBOLS AND DEFINITIONS		
05/15	0-1		STANDARD ABBREVIATIONS		
01/12	0-2	SHT 1	PLAN SYMBOLS		
01/12	0-2	SHT 2	PLAN SYMBOLS		
01/12	0-2	SHT 3	PLAN SYMBOLS		
03/10	0-3	SHT 1	STANDARD DEFINITIONS		
03/10	0-3	SHT 2	STANDARD DEFINITIONS		
04/19	0-4		REFERENCE DOCUMENTS AND GENERAL REQUIREMENTS		
T.S. 1			PULL BOXES		
09/11	1-1	SHT 1	LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 PULL BOX		
09/11	1-1	SHT 2	LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 SLOPE WALL BODY PULL BOX DETAILS		
03/15	1-2		HEAVY DUTY NO. 5 AND NO. 7 STRAIGHT BODY WALL PULL BOX DETAILS		
09/11	1-3		REPLACEMENT LID SIZING FOR EXISTING NO. 5 AND NO. 7 PULL BOXES		
09/11	1-4	SHT 1	TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS		
09/11	1-4	SHT 2	TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS		
09/11	1-4	SHT 3	TYPICAL PULL BOX INSTALLATION DETAILS		
09/11	1-5	SHT 1	ELECTRICAL CONDUIT COVER AND TRENCH REQUIREMENTS		
09/11	1-5	SHT 2	CONDUIT EXPANSION COUPLINGS		
09/11	1-6		CONDUCTOR REQUIREMENTS		
03/10	1-7		TRAFFIC SIGNAL IMSA CABLE COLOR CODES		
09/11	1-8	SHT 1	FRONT OF BARRIER JUNCTION BOX		
09/11	1-8	SHT 2	BACK OF BARRIER JUNCTION BOX		
09/11	1-9		TOP OF BARRIER JUNCTION BOX DETAILS		
09/11	1-10		TOP OF BARRIER JUNCTION BOX DETAILS		
10/13	1-11	SHT 1	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX		
10/13	1-11	SHT 2	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX		
03/15	1-11	SHT 3	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX LID		
03/15	1-12	SHT 1	PRECAST HEAVY DUTY LIGHTING NO. 4B AND NO. 6B PULL BOX		
03/15	1-12	SHT 2	PRECAST HEAVY DUTY LIGHTING NO. 4B AND NO. 6B PULL BOX		
T.S. 2			FOUNDATIONS		
03/10	2-1		FOUNDATION FOR TYPE II LOAD CENTER CABINET		
03/10	2-2		FOUNDATION FOR TYPE IV LOAD CENTER CABINET		
03/10	2-3		FOUNDATION FOR TYPE III CONTROL CABINET		
03/10	2-4		FOUNDATION FOR TYPE IV AND V CONTROL CABINETS		
03/10	2-5		FOUNDATION FOR TYPE 340 CONTROL CABINET		
03/10	2-6		METER PEDESTAL CABINET FOUNDATION AND BASE		
03/15	2-7		TRAFFIC SIGNAL UPS CABINET FOUNDATION DETAIL		
T.S. 3			CABINETS		
12/12	3-0		NOTES FOR TYPE II AND IV LOAD CENTER CABINETS		
03/10	3-1		TYPE II LOAD CENTER CABINET		
03/10	3-2		TYPE IV LOAD CENTER CABINET		
03/10	3-3		TYPE II OR IV LOAD CENTER CABINET WIRING DETAILS 240/480 3W W/DISCONNECT		
03/10	3-4	SHT 1	PHOTO ELECTRIC CELL MOUNTING DETAILS		
03/10	3-4	SHT 2	PHOTO ELECTRIC CELL MOUNTING DETAILS		
03/10	3-5	SHT 1	TYPE I AND II METER PEDESTAL CABINET		
12/12	3-5	SHT 2	METER PEDESTAL CABINET		
03/10	3-6		TYPE III CONTROL CABINET		
03/10	3-7		POLE MOUNTED TYPE III CONTROL CABINET		
03/10	3-8	SHT 1	POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET		
03/10	3-8	SHT 2	POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET		
03/10	3-9	SHT 1	TYPE IV AND V CONTROL CABINET NOTES		
03/10	3-9	SHT 2	TYPE IV CONTROL CABINET		
03/10	3-9	SHT 3	TYPE V CONTROL CABINET		
03/10	3-10		CABINET EXTENSION OR ELEVATOR BASE		
03/10	3-11		CONTROL CABINET MOUNTED SERVICE ENCLOSURE		
03/10	3-12	SHT 1	120/240 OR 240/480 VOLT, SINGLE PHASE UTILITY PULL SECTION AND SERVICE DISCONNECT DETAILS		
03/10	3-12	SHT 2	120/240 OR 240/480 VOLT, SINGLE PHASE UTILITY PULL SECTION AND SERVICE DISCONNECT DETAILS		
03/10	3-13	SHT 1	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET DETAILS		
03/10	3-13	SHT 2	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET DETAILS		
03/10	3-13	SHT 3	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET CAGE DETAILS		

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SUBJECT :  
TRAFFIC SIGNALS AND LIGHTING DETAILS

T-SL. 4			POLES AND POSTS		
04/19	4.01		TYPE A POLE		
04/19	4.02		TYPE S POLE		
04/19	4.03		TYPE T POLE		
04/19	4.04		TYPE S AND TYPE T STEEL TWIN LUMINAIRE MOUNTING BRACKET AND EXTENSIONS		
04/19	4.05		ALUMINUM TYPE S POLE		
04/19	4.06		ALUMINUM TYPE T POLE		
04/19	4.07		TYPE G POLE		
04/19	4.08		ALUMINUM TYPE G POLE		
04/19	4.09		ALUMINUM TYPE H POLE		
04/19	4.10		ALUMINUM TYPE I POLE		
04/19	4.11		GENERAL NOTES FOR TRAFFIC SIGNALS AND LIGHTING POLES WITH MAXIMUM LOADING CASE		
04/19	4.12		TYPE J POLES (25-J, 30-J, 35-J, AND 40-J) WITH 25 FT TO 40 FT MAST ARM SPAN LENGTH		
04/19	4.13		TYPE Q POLES (25-QL, 30-QL, 35-QL, AND 40-QL) WITH 25 FT TO 40 FT MAST ARM SPAN LENGTH WITH LUMINAIRES		
04/19	4.14		TYPE K POLES (45-K, 50-K, AND 55-K) WITH 45 FT TO 55 FT MAST ARM SPAN LENGTH		
	4.15		TYPE R POLES (45-RL, 50-RL, AND 55-RL) WITH 45 FT TO 55 FT MAST ARM SPAN LENGTH WITH LUMINAIRES		
04/19	4.16		TYPE V POLES (60-V AND 65-V) WITH 60 FT TO 65 FT MAST ARM SPAN LENGTH		
	4.17		TYPE W POLES (60-WL AND 65-WL) WITH 60 FT TO 65 FT MAST ARM SPAN LENGTH WITH LUMINAIRES		
04/19	4.18		POLE HAND HOLE DETAILS		
04/19	4.19		TYPE U POLE (ELLIPTICAL BASE) DETAILS		
04/19	4.20		TYPE U POLE (ROUND POLE WITH SQUARE BASE) NOTES		
04/19	4.21		TYPE U POLE (ROUND POLE WITH SQUARE BASE) FOUNDATION DETAILS		
04/19	4.22		TYPE U POLE (ROUND POLE WITH SQUARE BASE) DEATILS 1		
04/19	4.23		TYPE U POLE (ROUND POLE WITH SQUARE BASE) DEATILS 2		
04/19	4.24		TYPE U POLE (ROUND POLE WITH SQUARE BASE) PIPE TENON DETAILS		
04/19	4.25		TYPE U POLE (ROUND POLE WITH SQUARE BASE) TWIN LUMINAIRE BRACKET DETAILS		
04/19	4.26		EQUIPMENT MOUNTING HEIGHT DETAILS		
04/19	4.27		PEDESTRIAN PUSH BUTTON POST "TYPE PB POLE"		
04/19	4.28		POLE FOUNDATION ANCHOR BOLTS		
04/19	4.29		STEEL MAST ARM DETAILS LUMINAIRE AND SIGNAL ARMS TO 20'		
04/19	4.30		ALUMINUM TRUSS MAST ARM DETAILS FOR TYPE G, H, AND I POLES		
04/19	4.31		SIGNAL MAST ARM TENON DETAIL		
04/19	4.32		TYPICAL HIGHWAY LIGHTING OFFSETS IN CUT AND FILL SECTIONS		
T.S. 5			POLE BASES - SPECIAL		
04/19	5-0		TYPE 2 AND 3 CAST ALUMINUM BREAK-AWAY BASES		
	5-1		TYPE 2 CAST ALUMINUM BREAK-AWAY BASE		
	5-2		TYPE 3 CAST ALUMINUM BREAK-AWAY BASE		
	5-3		INSTALLATION DETAILS FOR POLE FOUNDATIONS WITH TYPE 2 AND 3 BREAK-AWAY BASES		
T.S. 6			HIGHWAY TRAFFIC DATA DETECTORS		
03/10	6-1		TYPE C VEHICLE DETECTOR LOOPS FOR TRAFFIC COUNTERS		
	6-2	SHT 1	TYPE SA AND SB SPEED/VEHICLE CLASSIFICATION SYSTEMS		
03/10	6-2	SHT 2	TYPE SA SPEED/VEHICLE CLASSIFICATION SYSTEMS		
03/10	6-2	SHT 3	TYPE SB SPEED/VEHICLE CLASSIFICATION SYSTEMS		
12/12	6-3		PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT		
12/12	6-4	SHT 1	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS		
12/12	6-4	SHT 2	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS		
03/15	6-4	SHT 3	DETAIL A PIEZOELECTRIC SENSOR DETAILS		
12/12	6-4	SHT 4	DETAIL B DETECTOR LOOP DETAILS		
12/12	6-4	SHT 5	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS		
03/10	6-5		MICROLOOPS FOR SPEED/VEHICLE CLASSIFICATION		
03/10	6-6		QUARTZ PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT		
03/10	6-7		TRAFFIC DATA COLLECTION CABINET INSTALLATION DETAILS		
03/10	6-8		TYPE MPD CABINET POLE, BASE AND FOUNDATION INSTALLATION DETAILS		

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
TRAFFIC SIGNAL & LIGHTING STANDARDS		NAME	DATE
PROJECT NO.		1C-1	OF
RECORD DRAWING DATA	FEDERAL ID NO.	REC. DWG. DATE	OF