

SUMMARY OF QUANTITIES

GENERAL NOTES

1. THE LOCATIONS OF THE PUBLIC OR PRIVATE UTILITIES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR WILL BE REQUIRED TO VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY, AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK BY CALLING J.U.L.I.E AT (800) 892-0123. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. UNLESS OTHERWISE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL WORK INSTALLED UNDER THIS CONTRACT INVOLVING TRAFFIC CONTROL DEVICES SHALL BE IN STRICT ACCORDANCE WITH ANY AND ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
3. THE CONTRACTOR SHALL TEST AND ADJUST ALL EMERGENCY VEHICLE PREEMPTION EQUIPMENT WITH THE LOCAL FIRE DEPARTMENT PRIOR TO THE DATE OF THE MAINTENANCE TRANSFER. THE CONTRACTOR SHALL COORDINATE THIS TESTING WITH THE ENGINEER.
4. THE CONTRACTOR SHALL PROVIDE ASSURANCE THAT THE WIRELESS INTERCONNECT WILL OPERATE PROPERLY AT ALL TIMES THROUGHOUT CONSTRUCTION. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY AERIAL INTERCONNECT AT NO COST TO THE CONTRACT.
5. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
6. THIS PROJECT IS ANTICIPATED TO BE CONSTRUCTED CONCURRENTLY WITH THE VIRGINIA STREET STREETScape IMPROVEMENTS PROJECT FOR THE CITY OF CRYSTAL LAKE (BY OTHERS). THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE VIRGINIA STREET STREETScape PROJECT TO ENSURE THAT ALL WORK FOR BOTH PROJECTS IS COMPLETED IN AN EFFICIENT MANNER. ANY ITEMS THAT ARE DAMAGED OR REPLACED DUE TO INADEQUATE COORDINATION ON THE PART OF THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

RESTORATION OF WORK AREA
 RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, SIDEWALK, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC., SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

IDOT STANDARDS REFERENCED

NUMBER	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701602-04	URBAN LANE CLOSURE MULTI LANE 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-06	URBAN LANE CLOSURE MULTI LANE INTERSECTION
701801-04	LANE CLOSURE MULTI LANE 1W 2W WITH CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-04	STEEL MAST ARM ASSEMBLY AND POLE
878001-07	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS WITH POST AND BRACKET MOUNT
886001-01	DETECTOR LOOP INSTALLATIONS
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

NOTE:
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SUMMARY OF QUANTITIES		FUNDING BREAKDOWN		LOCATION OF WORK			
		UNIT	TOTAL	U.S. ROUTE 14 (VIRGINIA ST.) & DOLE AVE.	U.S. ROUTE 14 (VIRGINIA ST.) & McHENRY AVE.	U.S. ROUTE 14 (VIRGINIA ST.) & DEVONSHIRE LN./KEITH AV.	U.S. ROUTE 14 (VIRGINIA ST.) INTERCONNECT
CODE NO.	PAY ITEM			TRAFFIC SIGNALS Y031-1F	TRAFFIC SIGNALS Y031-1F	TRAFFIC SIGNALS Y031-1F	TRAFFIC SIGNALS Y031-1D
67100100	MOBILIZATION	L SUM	1				
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1				
72000100	SIGN PANEL - TYPE 1	SQ FT	60	12	18	30	
72000200	SIGN PANEL - TYPE 2	SQ FT	75	25	25	25	
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	1046		172	547	327
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	13			13	
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	37	6	8	23	
81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	20	10		10	
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1667	679	220	236	532
81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	64	38	26		
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	141	56	53	32	
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	948	340	259	349	
81030100	CONDUIT SPLICE	EACH	2				2
81400100	HANDHOLE	EACH	13	5	2	4	2
81400200	HEAVY-DUTY HANDHOLE	EACH	12	4	4	4	
81400300	DOUBLE HANDHOLE	EACH	5	2	1	2	
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1106	11	180	588	327
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2				2
85100100	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2102	567	398	1137	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4058	1451	1004	1603	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3286	1088	922	1276	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3942	1372	1202	1368	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14 1 PAIR	FOOT	6042	2303	1466	2273	
87301705	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 3 PAIR	FOOT	7574				7574
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	207	29		178	
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	4	1	1	2	
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT.	EACH	1	1			
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	4			4	
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1	1			
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	1			
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	2			2	
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1		
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2		1	1	
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1		1		
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	2	1		1	
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1	1			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20	8	4	8	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8	4		4	
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	120	30	45	45	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45	30		15	
87900200	DRILL EXISTING HANDHOLE	EACH	9		6		3
88030020	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	18	6	6	6	
88030100	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	10	4	3	3	
88030110	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	13	4	5	4	
88030220	SIGNAL HEAD, L.E.D., 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1		
88030240	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1			1	
88102717	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2		
88102747	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	11	4	3	4	
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	31	10	11	10	
88500100	INDUCTIVE LOOP DETECTOR	EACH	6	2	2	2	
88600100	DETECTOR LOOP, TYPE I	FOOT	2260	677	842	741	
88700200	LIGHT DETECTOR	EACH	5	3		2	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2	1		1	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	9	4	5		
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	3	1	1	1	
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2		2		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5638		782		4856
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	1	1	1	
89502380	REMOVE EXISTING HANDHOLE	EACH	26	11	5	10	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	22	10	5	7	
X0324232	PAINT NEW MAST ARM POLE, UNDER 40 FEET	EACH	5	2	3		
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	4221				4221
X0325141	PAINT NEW MAST ARM POLE, 40 FEET AND OVER	EACH	2	2			
X0325737	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	1	1	1	
X8050015	SERVICE INSTALLATION, POLE MOUNTED	EACH	2	1		1	
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	3	1	1	1	
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1880	755	376	749	
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	1409	672	294	443	
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8			8	
X8760250	VIBROTACTILE FEATURE	EACH	8			8	
X0326656	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE	EACH	2	1		1	
X0325037	PAINT NEW SIGNAL POST	EACH	3	2	1		