

TRAFFIC SIGNAL GENERAL NOTES

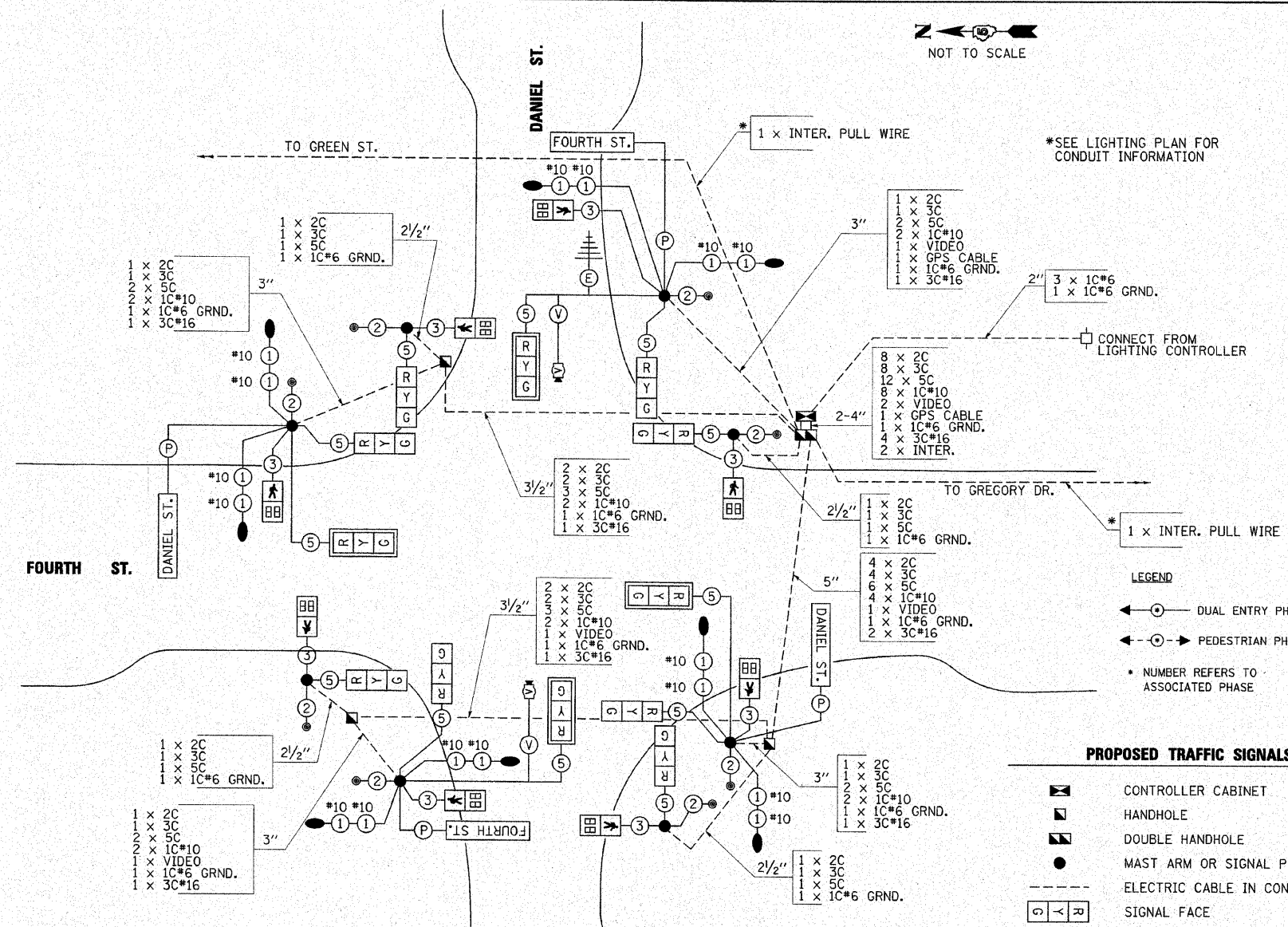
1. ACTUAL LOCATIONS OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLERS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER.
2. 12" LED LENSES WILL BE USED ON ALL SIGNAL FACES.
3. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. POST MOUNTED SIGNAL HEADS SHALL BE INSTALLED SUCH THAT NO PART OF THE SIGNAL HEAD IS WITHIN TWO (2) FEET OF THE FACE OF CURB.
6. A 1/4" CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES, FOUNDATIONS, AND CONTROLLERS. THE ROPE SHALL BE INCLUDED IN THE UNIT COST FOR THE PROPOSED CONDUIT.
7. EXISTING SIGNAL TIMINGS AND PHASING WILL BE MAINTAINED FOR THE EXISTING CONTROLLER. THE CONTRACTOR SHALL DOCUMENT CURRENT TIMINGS AND PHASING PRIOR TO BEGINNING WORK IN THE EVENT THAT THE CONTROLLER REQUIRES REPROGRAMMING.
8. THE CONTRACTOR SHALL INVENTORY ALL REMOVED TRAFFIC SIGNAL EQUIPMENT AND SIGNS AND SHALL DELIVER THE TRAFFIC SIGNAL CONTROLLER/CABINET, ALL LED SIGNAL HEADS AND SIGNS TO THE CITY OF CHAMPAIGN AT THE PUBLIC WORKS BUILDING - 702 EDGEBROOK DRIVE CHAMPAIGN, ILLINOIS. ALL OTHER REMOVAL ITEMS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF STANDARD SPECIFICATIONS.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, EACH INCLUDES:

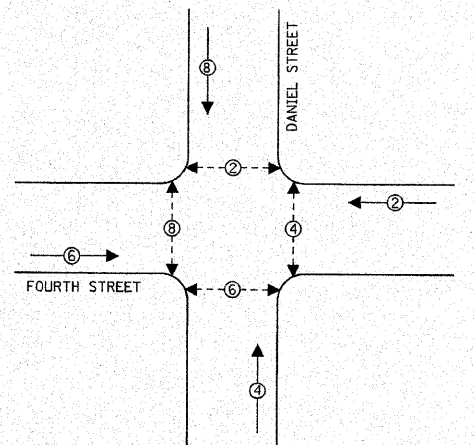
TRAFFIC SIGNAL POST	4 EA.
PEDESTRIAN SIGNAL HEAD	8 EA.
SIGNAL HEAD	8 EA.
TRAFFIC SIGNAL CONTROLLER AND CABINET	1 EA.

TRAFFIC SIGNAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	115
CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	43
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	105
CONDUIT IN TRENCH, 3 1/2" DIA., PVC	FOOT	34
CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	10
CONDUIT, BORED AND PULLED, COILABLE NON-METALLIC CONDUIT, 3 1/2"	FOOT	151
CONDUIT, BORED AND PULLED, COILABLE NON-METALLIC CONDUIT, 5"	FOOT	49
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
HANDHOLE, COMPOSITE CONCRETE	EACH	3
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1486
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	345
ELECTRIC CABLE IN TRENCH, SERVICE, NO. 6 1C	FOOT	417
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1374
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1164
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1803
TRAFFIC SIGNAL POST, 14 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	14
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	8
TRAFFIC SIGNAL BACKPLATE	EACH	4
EMERGENCY VEHICLE SIGNAL CONTROL SYSTEM	EACH	1
PEDESTRIAN PUSH BUTTON	EACH	8
ILLUMINATED SIGN, LED	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2600
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
WIDE AREA VIDEO DETECTION SYSTEM COMPLETE	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	565
PHOTOELECTRIC CONTROL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 18 3C	FOOT	366
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 16 3C, SPECIAL	FOOT	663
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL, INSTALL ONLY	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	L SUM	1



INTERSECTION: FOURTH STREET & DANIEL STREET
 CONTROLLER: FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
 REFERRING TO STANDARD 857001. THE VEHICULAR PHASES USED ARE DESIGNATED BELOW.



PROPOSED PHASE DESIGNATION DIAGRAM

PROPOSED TRAFFIC SIGNALS LEGEND

[Symbol]	CONTROLLER CABINET
[Symbol]	HANDHOLE
[Symbol]	DOUBLE HANDHOLE
[Symbol]	MAST ARM OR SIGNAL POST
[Symbol]	ELECTRIC CABLE IN CONDUIT
[Symbol]	SIGNAL FACE
[Symbol]	SIGNAL FACE AND BACKFACE
[Symbol]	PEDESTRIAN PUSH BUTTON
[Symbol]	PEDESTRIAN SIGNAL FACE
[Symbol]	G.P.S. EMERGENCY VEHICLE PREEMPTION DETECTOR
[Symbol]	LUMINAIRE
[Symbol]	DENOTES NUMBER OF CONDUCTORS ALL CABLE #14 EXCEPT AS INDICATED
[Symbol]	INTER. FIBER OPTIC CABLE IN CONDUIT
[Symbol]	PULL WIRE
[Symbol]	LIGHT CABLE (#16 3/C) SPECIAL
[Symbol]	11/C G.P.S. PREEMPTION CABLE
[Symbol]	GROUNDING CABLE (GREEN)

NUMBER OF CABLE IN CONDUIT
 NUMBER OF CONDUCTORS IN EACH CABLE
 CONDUIT SIZE