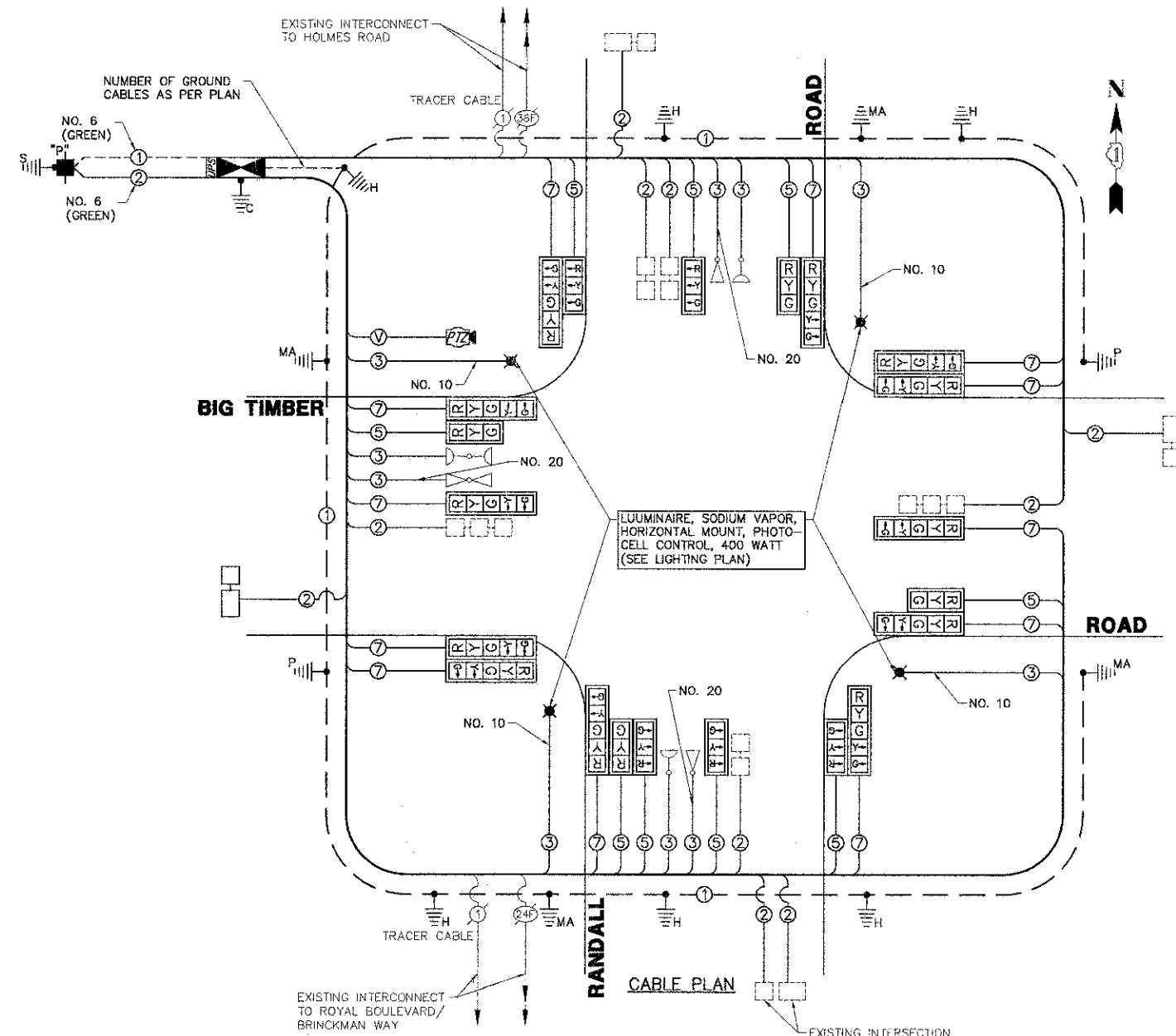
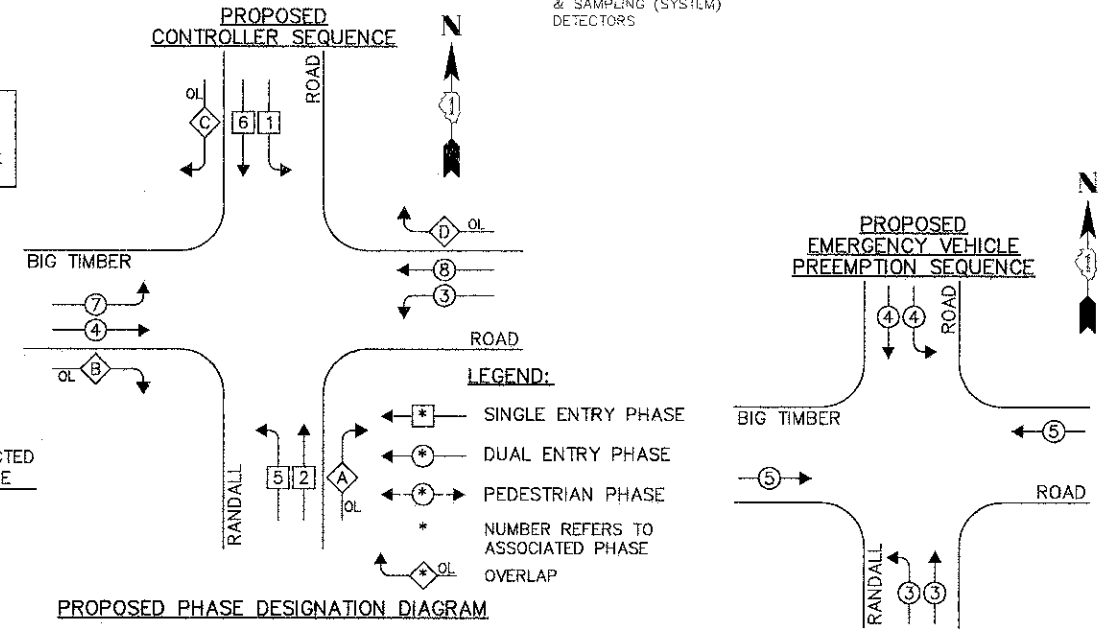


SCHEDULE OF QUANTITIES
RANDALL ROAD AT BIG TIMBER ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
2.	248	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
3.	31	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
4.	134	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
5.	326	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
6.	1	EACH	HANDHOLE
7.	1	EACH	DOUBLE HANDHOLE
8.	1	EACH	CONTROLLER CABINET TYPE IV
9.	6	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
10.	3,155	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
11.	3,351	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
12.	3,580	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
13.	55	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
14.	794	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1 C
15.	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
16.	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.
17.	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.
18.	2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.
19.	8	FOOT	CONCRETE FOUNDATION, TYPE A
20.	41	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
21.	21	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
22.	8	EACH	DRILL EXISTING HANDHOLE
23.	8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
24.	6	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
25.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
26.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
27.	21	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
28.	10	EACH	INDUCTIVE LOOP DETECTOR
29.	94	FOOT	DETECTOR LOOP, TYPE I
30.	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
31.	1	EACH	RELOCATE EXISTING SIGNAL CONTROLLER
32.	2	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
33.	3	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
34.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
35.	1	EACH	MODIFY EXISTING CONTROLLER
36.	5,434	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
37.	976	FOOT	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT
38.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
39.	2	EACH	REMOVE EXISTING HANDHOLE
40.	5	EACH	REMOVE EXISTING CONCRETE FOUNDATION
41.	24	EACH	FIBER OPTIC FUSION SPLICE
42.	1	EACH	RELOCATE EXISTING PTZ CAMERA
43.	1	EACH	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA
44.	1	L SUM	NETWORK CONFIGURATION
45.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (SPECIAL KDOT)
46.	1	EACH	MAJUNCTION MANAGEMENT UNIT
47.	1	EACH	ETHERNET SWITCH, TYPE 1
48.	1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2
49.	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING



IMPORTANT NOTE:
PHASES 2 AND 6 WILL BE PLACED ON MINIMUM RECALL AND PHASES 1 AND 5 SHALL HAVE THE ANTI-BACKUP FEATURE DISABLED.



OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	7	11

KANE COUNTY DIVISION OF TRANSPORTATION TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND. L.E.D.	% OPERATION		
SIGNAL (RED)	21	135	17	0.50	178.5
SIGNAL (YELLOW)	21	135	25	0.25	131.25
SIGNAL (GREEN)	21	135	15	0.25	78.75
ARROW	24	135	12	0.10	28.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.30	-
VIDEO SYSTEM	1	-	150	1.00	150.0
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =				692.3	

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE SIEMENS M-50 SERIES IP ACCESSIBLE VIA ETHERNET TO THE KDOT ATMS TO MATCH THE EXISTING ADJACENT SYSTEM.