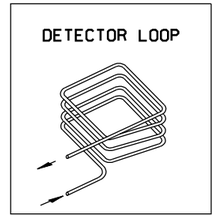
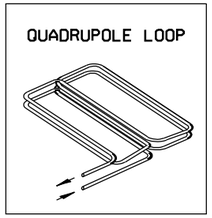
LOOP NAME	# OF TURNS	INDUCT. @ SPLICE	OHMS @ SPLICE	INDUCT. @ CONTR.	OHMS @ CONTR.
Peoria Rd. & Sangamon Avenue					
SLT	2-4-2	346	1.18	365	3.95
SLB	2	188	0.85	207	3.62
SLC	5	175	0.46	193	3.23
SRC	5	172	0.39	190	3.16
SRT	5	170	0.34	188	3.11
ELB	2	184	0.74	198	2.85
ELT	2-4-2	366	1.14	380	3.25
ELC	5	172	0.40	186	2.51
ERC	5	170	0.34	184	2.45
ELH	5	171	0.36	193	3.74
ERH	5	169	0.32	191	3.69
ELE	5	171	0.38	206	5.45
ERE	5	169	0.32	203	5.38
NLT	2-4-2	343	1.11	345	1.38
NLB	2	191	0.93	193	1.19
NLC	5	175	0.47	177	0.73
NRC	5	172	0.40	174	0.66
NLH	5	172	0.39	185	2.39
NRH	5	169	0.32	182	2.32
NLE	4	142	0.38	167	4.08
NRE	4	139	0.31	164	4.00
WLT	2-4-2	397	1.22	408	2.71
WLB	2	184	0.83	194	2.32
WLC	5	173	0.42	183	1.92
WRC	5	172	0.39	182	1.89
J. D. Jones Pkwy & Browning Rd.					
NLT	2-4-2	333	1.16	355	4.36
NLB	2	194	0.93	216	4.13
NLE	4	144	0.41	181	5.89
NRE	4	141	0.35	178	5.83
NLF		145	0.44	196	7.99
NRF	4	142	0.38	193	7.93
SLE	4	143	0.40	157	2.41
SRE	4	141	0.35	154	2.35
SLF	4	143	0.41	171	4.53
SRF	4	141	0.35	169	4.48
EAP	2-4-2	362	1.18	375	3.21
EAS	2	189	0.81	203	2.84
ERT	2	193	0.75	206	2.78
ERB	2	167	0.68	180	2.71
Walnut & North Grand					
NLF	4	143	0.39	189	7.30
NRF	4	140	0.32	187	7.24
NLE	4	142	0.38	178	5.69
NRE	4	139	0.31	175	5.62
NLT		366	1.25	392	5.13
NLB	2	191	0.86	218	4.74
NLC	4	145	0.44	171	4.32
NRC	4	142	0.38	168	4.26
ELT	2-4-2	334	1.16	347	3.19
ELB	2	192	0.87	206	2.90
ELC	4	147	0.50	161	2.53
ERC	4	145	0.44	159	2.48
WLT	2-4-2	348	1.16	362	3.23
WLB	2	190	0.83	204	2.90
WLC	4	144	0.42	158	2.49
WRC	4	141	0.36	155	2.43
SLT	2-4-2	349	1.18	350	1.40
SLB	2	190	0.83	192	1.05
SLC	4	144	0.43	146	0.66
SRC	4	142	0.36	143	0.59
SLE	4	141	0.36	151	1.86
SRE	4	138	0.29	149	1.79
SLF	4	141	0.36	164	3.67
SRF	4	139	0.29	161	3.60

LOOP NAME	# OF TURNS	INDUCT. @ SPLICE	OHMS @ SPLICE	INDUCT. @ CONTR.	OHMS @ CONTR.
Walnut & Carpenter					
NLT	2-4-2	326	1.03	341	3.33
NLB	2	184	0.75	199	3.04
NLE	4	141	0.35	164	3.80
NRE	4	139	0.29	162	3.75
NLF	4	141	0.36	175	5.35
NRF	4	139	0.30	173	5.29
SLE	4	144	0.41	165	3.55
SRE	4	141	0.35	162	3.49
SLF	4	142	0.36	173	5.06
SRF	4	139	0.31	171	5.01
ELT	2-4-2	387	1.14	388	1.28
ELB	2	188	0.69	188	0.83
ERA	2-4-2	369	1.05	370	1.19
ERB	2	179	0.62	180	0.76
Walnut & Mason					
SLF	4	144	0.43	183	6.13
SRF	4	142	0.36	180	6.07
SLE	4	142	0.38	171	4.66
SRE	4	145	0.44	174	4.73
SLT	2-4-2	289	0.94	306	3.47
SLB	2	196	0.83	213	3.36
WLT	2-4-2	326	0.99	340	3.07
WRT	2-4-2	308	0.88	322	2.96
ELT	2-4-2	390	1.15	403	3.12
ERT	2-4-2	420	1.18	433	3.15
NLT	2-4-2	360	1.12	361	1.26
NLB	2	195	0.81	196	0.96
NLE	4	141	0.36	154	2.18
NRE	4	139	0.29	151	2.12
NLF	4	141	0.35	165	3.96
NRF	4	139	0.29	163	3.90
Walnut & Jefferson					
NLC	4	147	0.50	151	1.08
NRC	4	145	0.46	149	1.04
NLE	4	141	0.35	154	2.29
NRE	4	139	0.29	152	2.23
NLF	4	141	0.35	170	4.57
NRF	4	139	0.29	167	4.51
Veterans & Browning					
WLF	4	144	0.43	180	5.79
WRF	4	141	0.36	178	5.72
WLE	4	145	0.44	163	3.13
WRE	4	142	0.38	160	3.06
WLT	2-4-2	380	1.08	396	3.36
WLB	2	182	0.63	198	2.91
ELF	4	144	0.42	212	10.53
ERF	4	141	0.36	210	10.46
ELE	4	145	0.45	195	7.90
ERE	4	142	0.39	193	7.83
ELT	2-4-2	380	1.08	412	5.82
ELB	2	182	0.63	214	5.37
SLT	2-4-2	148	0.73	168	3.67
SAP	2-4-2	139	0.63	158	3.58
SLB	2	191	0.84	206	3.09
SAS	2	188	0.77	203	3.02
SRT	2	182	0.62	197	2.87
NLT	2-4-2	331	1.09	348	3.63
NAP	2-4-2	312	0.98	329	3.51
NLB	2	188	0.78	210	4.06
NAS	2	185	0.70	207	3.98
NRT	2	196	0.68	218	3.96

LOOP NAME	# OF TURNS	INDUCT. @ SPLICE	OHMS @ SPLICE	INDUCT. @ CONTR.	OHMS @ CONTR.
Veterans & 8th Street					
WLF	4	144	0.43	207	9.69
WRF	4	141	0.36	204	9.62
WLE	4	145	0.44	190	7.11
WRE	4	142	0.38	187	7.04
WLT	2-4-2	340	0.97	382	7.17
WLB	2	182	0.63	224	6.82
SAP	2-4-2	313	1.01	338	4.66
SAS	2	187	0.75	212	4.40
SRT	2	162	0.57	187	4.22
SRB	2	169	0.59	194	4.24
SRP	2	116	0.42	135	3.30
SAF	4	143	0.39	179	5.81
SRL	4	140	0.33	177	5.74
ELT	2-4-2	340	0.97	349	2.34
ELB	2	182	0.63	191	1.99
ELF	4	144	0.42	178	5.42
ERF	4	141	0.35	175	5.35
ELE	4	145	0.44	160	2.76
ERE	4	142	0.38	158	2.69
NAP	2-4-2	313	1.02	326	2.82
NAS	2	187	0.76	200	2.56
NRT	2	116	0.43	128	2.23
Veterans & Peoria					
WLF	4	144	0.43	193	7.60
WRF	4	142	0.36	190	7.53
WLE	4	145	0.45	175	4.94
WRE	4	142	0.39	173	4.88
WLT	2-4-2	359	1.09	383	4.60
WLB	2	185	0.71	209	4.21
ELF	4	143	0.40	199	8.64
ERF	4	140	0.34	196	8.58
ELE	4	144	0.42	181	5.99
ERE	4	141	0.35	179	5.93
ERL	4	142	0.36	172	4.86
ELL	4	139	0.30	169	4.79
ELT	2-4-2	407	1.21	423	3.68
ELP	2-4-2	388	1.10	405	3.57
ELB	2	191	0.71	208	3.19
ELS	2	182	0.63	199	3.10
NAP	2-4-2	352	1.09	386	6.14
NAS	2	179	0.70	213	5.75
NRT	2-4-2	266	0.78	300	5.83
SAP	2-4-2	333	1.14	335	1.44
SAS	2	184	0.81	186	1.11
SRP	2-4-2	399	1.20	401	1.49
SRT	2-4-2	348	1.00	350	1.30
SRS	2	162	0.63	164	0.93
SRB	2	139	0.50	141	0.80
SAE	4	145	0.44	155	1.95
SRE	4	142	0.38	152	1.89
SRH	4	139	0.31	150	1.82
SAF	4	145	0.44	166	3.67
SRF	4	142	0.38	164	3.60
SRR	4	139	0.31	161	3.54





INSTALLING THE LOOP WIRE:
THE NEGATIVE LEAD SHALL BE CONNECTED TO THE BLACK CONDUCTOR OF A PAIR OF CONDUCTORS IN THE LEAD-IN CABLE AND THE POSITIVE LEAD SHALL BE CONNECTED TO THE COLOR-CODED CONDUCTOR OF THE CABLE PAIR.

DETECTOR LOOP WIRE INSTALLATION

DETECTOR NOTES:

1. THE DETECTOR LOOP SHALL BE CENTERED IN THE LANE IN WHICH IT IS SHOWN. ANY ADJUSTMENTS ARE TO BE MADE ONLY AT THE DIRECTION OF THE ENGINEER.
2. THE DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. ACCEPTANCE OF THE LOOPS AS METERED SHALL BE DETERMINED BY THE ENGINEER.
4. ALL DETECTOR WIRES SHALL BE MARKED WITH WATERPROOF LABELS USING THE WIRING IDENTIFICATION SHOWN ON THE PLANS. THE + AND - OF EACH LOOP MUST BE USED TO IDENTIFY CURRENT FLOW. ALWAYS CONNECT THE BLACK WIRE OF EACH PAIR TO THE NEGATIVE (-) LOOP WIRE.
5. ALL QUADRAPOLE LOOPS SHALL BE 2-4-2 DESIGN.
6. THE CONTRACTOR SHALL CONTACT DISTRICT 6 OPERATIONS FOR ASSISTANCE IN DETECTOR LOOP LAYOUT AT LEAST 48 HOURS BEFORE INSTALLING DETECTOR LOOPS (Ph.# 217-782-7314)

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0203328\D672C35_sht_ts_37.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0001 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Apr-29-2010 02:56:13PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL DETECTOR LOOP DETAILS

SCALE: | SHEET NO. 33 OF 33 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	1-1(RS,TS-1), 27RS-6, 102RS-4	SANGAMON	206	203
*	FAP 666 (BL-55), FAP 662 (IL 4) FAP 658 (IL 29)	CONTRACT NO. 72C35		
		ILLINOIS	FED. AID PROJECT	