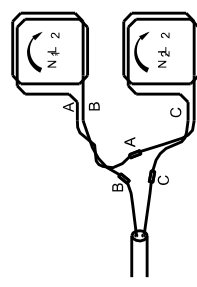
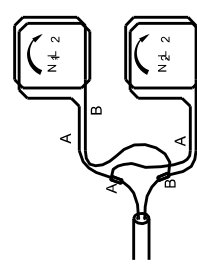
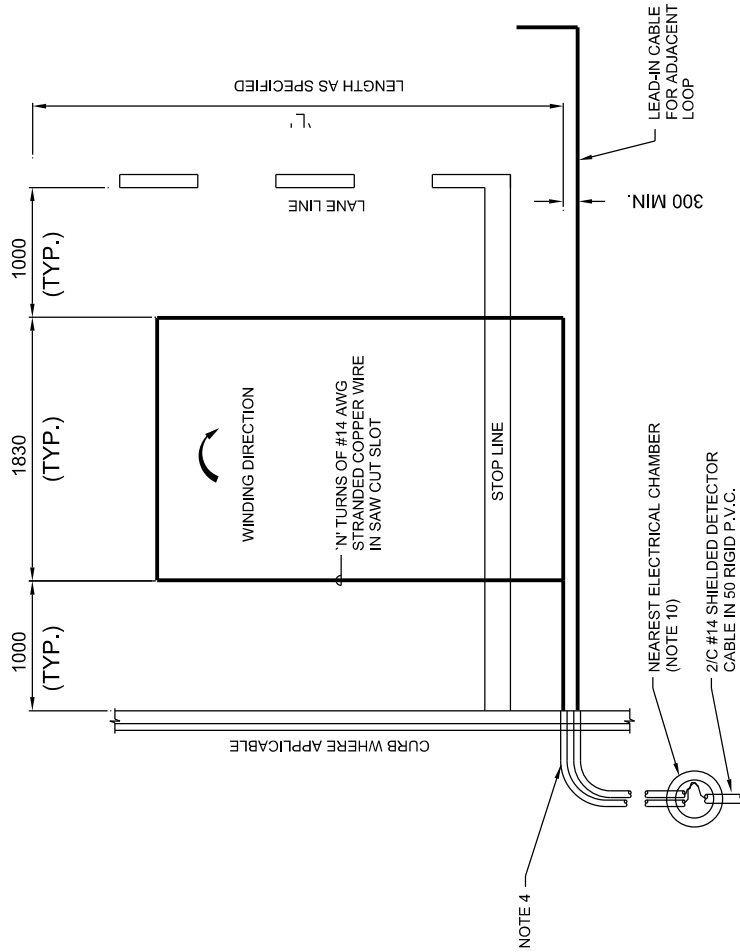


**NOTES:**

1. LOOP WIDTH TO BE 1830 IN ALL CASES. FOR LOOP LENGTH 'L' NUMBER OF TURNS AND ORIENTATION, SEE LAYOUT DRAWING.
2. ON LANES NARROWER THAN 3600, MAINTAIN 1830 SEPARATION BETWEEN ADJACENT LOOPS BY MOVING THE OUTER LOOP TO THE SIDE OR MEDIAN OF THE ROADWAY.
3. SHIELDED CABLE HAS AN INDUCTANCE OF APPROXIMATELY 22 µH PER 30m. TOTAL INDUCTANCE IS TO BE SET BETWEEN 100 AND 300 µH BY CHOOSING THE PROPER NUMBER OF LOOP TURNS FOR EITHER SERIES OF PARALLEL CONNECTION AND ADDING THE SHIELDED CABLE INDUCTANCE. LEAD IN INDUCTANCE MUST BE LESS THAN LOOP INDUCTANCE.
4. LEADS BETWEEN THE LOOP AND THE HANDWELL SHALL BE TWISTED AT 3 TURNS PER 300 WITH AN EQUAL LAY ON EACH WIRE. EACH LOOP LEAD SHALL BE RUN TO THE HANDWELL IN A SEPARATE 25 DIA. DUCT
5. NO SPLICES ALLOWED IN LOOP WIRING.
6. WIND ALL LOOPS IN ADJACENT LANES IN THE SAME DIRECTION. NO MORE THAN THREE LOOPS ARE TO BE CONNECTED TOGETHER IN SERIES.
7. GROUND SHIELD WIRE AT THE CONTROLLER AND DETECTOR UNIT ONLY.
8. POURING TEMPERATURE OF SEALANT SHALL NOT EXCEED 204°C. SEALANT SHALL BE POURED IN LAYERS TO AVOID BURNING THE WIRE INSULATION.
9. INDUCTANCE AND CONTINUITY TO BE METER CHECKED PRIOR TO SEALING LOOP.
10. LOOP CABLE AND RUN WIRES TO BE SPLICED AT THE NEAREST ELECTRICAL CHAMBER.
11. CONNECTOR HOUSING WITH WATERPROOF GEL TO BE USED FOR ALL UNDERGROUND SPLICING.
12. SOLDER AND MARRETTE ALL LOOP AND RUN WIRE CONNECTIONS. INSERT SPLICES INTO CONNECTION HOUSING OR TAPE AT POLE HANDHOLE.
13. THIS STANDARD SHALL BE USED IN CONJUNCTION WITH OPSD 2520.01.
14. ALL LEFT TURN LANE LOOPS SHALL BE CONNECTED TO A SEPARATE RUN WIRE AND BROUGHT TO THE CONTROLLER CHAMBER AND IN THE TRAFFIC CABINET.
15. ALL WIRING SHALL BE LABELLED IN THE ELECTRICAL CHAMBER AND IN THE TRAFFIC CABINET.



**TABLE OF APPROXIMATE LOOP INDUCTANCE (MICROHENRIES)**

**FOR 1830 LOOPS**

'L' / 'N' TURNS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	25	30	40	50	60	70	80	100	110	130	150	170	210	250	290	330	370	410	450	520	580	660	730	810	920	1040	1150	1260	1330	1490	1650	1810																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
1	1220	1830	2440	3050	3660	4270	4880	5490	6100	6710	7320	7930	8540	9150	9760	10370	10980	11590	12200	12810	13420	14030	14640	15250	15860	16470	17080	17690	18300	18910	19520	20130	20740	21350	21960	22570	23180	23790	24400	25010	25620	26230	26840	27450	28060	28670	29280	29890	30500	31110	31720	32330	32940	33550	34160	34770	35380	35990	36600	37210	37820	38430	39040	39650	40260	40870	41480	42090	42700	43310	43920	44530	45140	45750	46360	46970	47580	48190	48800	49410	50020	50630	51240	51850	52460	53070	53680	54290	54900	55510	56120	56730	57340	57950	58560	59170	59780	60390	61000	61610	62220	62830	63440	64050	64660	65270	65880	66490	67100	67710	68320	68930	69540	70150	70760	71370	71980	72590	73200	73810	74420	75030	75640	76250	76860	77470	78080	78690	79300	79910	80520	81130	81740	82350	82960	83570	84180	84790	85400	86010	86620	87230	87840	88450	89060	89670	90280	90890	91500	92110	92720	93330	93940	94550	95160	95770	96380	96990	97600	98210	98820	99430	100040	100650	101260	101870	102480	103090	103700	104310	104920	105530	106140	106750	107360	107970	108580	109190	109800	110410	111020	111630	112240	112850	113460	114070	114680	115290	115900	116510	117120	117730	118340	118950	119560	120170	120780	121390	122000	122610	123220	123830	124440	125050	125660	126270	126880	127490	128100	128710	129320	129930	130540	131150	131760	132370	132980	133590	134200	134810	135420	136030	136640	137250	137860	138470	139080	139690	140300	140910	141520	142130	142740	143350	143960	144570	145180	145790	146400	147010	147620	148230	148840	149450	150060	150670	151280	151890	152500	153110	153720	154330	154940	155550	156160	156770	157380	157990	158600	159210	159820	160430	161040	161650	162260	162870	163480	164090	164700	165310	165920	166530	167140	167750	168360	168970	169580	170190	170800	171410	172020	172630	173240	173850	174460	175070	175680	176290	176900	177510	178120	178730	179340	179950	180560	181170	181780	182390	183000	183610	184220	184830	185440	186050	186660	187270	187880	188490	189100	189710	190320	190930	191540	192150	192760	193370	193980	194590	195200	195810	196420	197030	197640	198250	198860	199470	200080	200690	201300	201910	202520	203130	203740	204350	204960	205570	206180	206790	207400	208010	208620	209230	209840	210450	211060	211670	212280	212890	213500	214110	214720	215330	215940	216550	217160	217770	218380	218990	219600	220210	220820	221430	222040	222650	223260	223870	224480	225090	225700	226310	226920	227530	228140	228750	229360	229970	230580	231190	231800	232410	233020	233630	234240	234850	235460	236070	236680	237290	237900	238510	239120	239730	240340	240950	241560	242170	242780	243390	244000	244610	245220	245830	246440	247050	247660	248270	248880	249490	250100	250710	251320	251930	252540	253150	253760	254370	254980	255590	256200	256810	257420	258030	258640	259250	259860	260470	261080	261690	262300	262910	263520	264130	264740	265350	265960	266570	267180	267790	268400	269010	269620	270230	270840	271450	272060	272670	273280	273890	274500	275110	275720	276330	276940	277550	278160	278770	279380	280000	280610	281220	281830	282440	283050	283660	284270	284880	285490	286100	286710	287320	287930	288540	289150	289760	290370	290980	291590	292200	292810	293420	294030	294640	295250	295860	296470	297080	297690	298300	298910	299520	300130	300740	301350	301960	302570	303180	303790	304400	305010	305620	306230	306840	307450	308060	308670	309280	309890	310500	311110	311720	312330	312940	313550	314160	314770	315380	315990	316600	317210	317820	318430	319040	319650	320260	320870	321480	322090	322700	323310	323920	324530	325140	325750	326360	326970	327580	328190	328800	329410	330020	330630	331240	331850	332460	333070	333680	334290	334900	335510	336120	336730	337340	337950	338560	339170	339780	340390	341000	341610	342220	342830	343440	344050	344660	345270	345880	346490	347100	347710	348320	348930	349540	350150	350760	351370	351980	352590	353200	353810	354420	355030	355640	356250	356860	357470	358080	358690	359300	359910	360520	361130	361740	362350	362960	363570	364180	364790	365400	366010	366620	367230	367840	368450	369060	369670	370280	370890	371500	372110	372720	373330	373940	374550	375160	375770	376380	376990	377600	378210	378820	379430	380040	380650	381260	381870	382480	383090	383700	384310	384920	385530	386140	386750	387360	387970	388580	389190	389800	390410	391020	391630	392240	392850	393460	394070	394680	395290	395900	396510	397120	397730	398340	398950	399560	400170	400780	401390	402000	402610	403220	403830	404440	405050	405660	406270	406880	407490	408100	408710	409320	409930	410540	411150	411760	412370	412980	413590	414200	414810	415420	416030	416640	417250	417860	418470	419080	419690	420300	420910	421520	422130	422740	423350	423960	424570	425180	425790	426400	427010	427620	428230	428840	429450	430060	430670	431280	431890	432500	433110	433720	434330	434940	435550	436160	436770	437380	437990	438600	439210	439820	440430	441040	441650	442260	442870	443480	444090	444700	445310	445920	446530	447140	447750	448360	448970	449580	450190	450800	451410	45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