



FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	SC	LEXINGTON			S-36	TS-18	

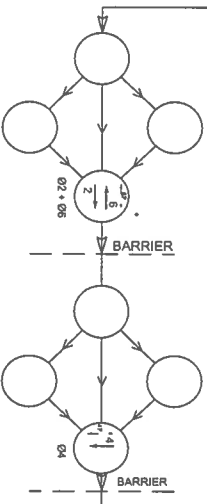
SIGNAL EQUIPMENT

ONE(1) 8-PHASE FULLY ACTUATED STANDARD 2070
CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 332A CABINET.

3 MODEL 222 (2)-CHANNEL VEHICLE DETECTOR UNITS

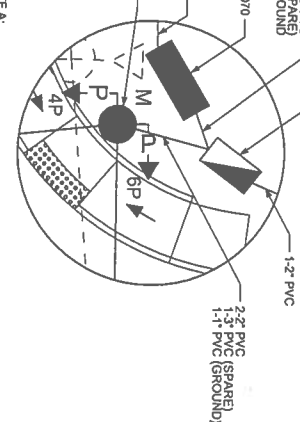
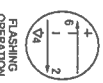
HEAD NUMBER	2	4	6		4P	6P
LENS	R	R	R			
	Y	Y	Y			
	G	G	G			
PHASE	2	4	6		4P	6P
SIZE	12"	12"	12"		16"	16"
QUANTITY	2	2	2		2	2

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL SHALL BE SKIPPED

- E-W STREET COORDINATED



NOTE A

INSTALL FIBER OPTIC INTERCONNECT CENTER AT NEAREST POLE EAST OF THE INTERSECTION. INSTALL AERIAL STORAGE RACK BETWEEN THE INTERCONNECT CENTER AND THE CONTROLLER CABINET. INSTALL FIBER OPTIC CABLE BETWEEN THE INTERCONNECT CENTER AND THE CONTROLLER CABINET INCLUDING 100' OF CABLE IN THE STORAGE RACK. RUN FIBER OPTIC CABLE ALONG SPAN WIRE TO THE CONTROLLER CABINET.

SIGNAL DISPLAY SEQUENCE CHART

PAISE (CM)	MONOCULTURE (PAISE)	COEXISTING (PAISE)
1	5, 6 BP	2, 3, 4, 7, 8, 20, 40, 60 BP
2	5, 6, 20 BP	1, 3, 4, 7, 8, 20, 40 BP
3	7, 8 BP	1, 2, 4, 5, 6, 20, 40 BP
4	7, 8, 20 BP	1, 2, 3, 5, 6, 20, 40 BP
5	1, 2, 20 BP	3, 4, 6, 7, 8, 40 BP
6	1, 2, 20 BP	3, 4, 5, 7, 8, 40 BP
7	3, 4, 40 BP	1, 2, 5, 6, 20, 40 BP
8	3, 4, 40 BP	1, 2, 5, 6, 7, 20, 40 BP

NOTE 4: ANY ACTIVATED PHASE FOR WHICH THERE IS NO CALL SHALL BE OMITTED.

NOTE 5: WHEN ONE PHASE IS ON ALONE, ANOTHER PHASE MAY BE ACTIVATED AT THAT TIME, BUT CONSECUTIVE PHASES MUST HAVE A CLEARANCE INTERVAL.

NOTE 6: CONFLICTING PHASES REQUIRE A CLEARANCE INTERVAL.

— WHEN CALLED, DISPLAY SOLID WALKING PERSON AND THEN CUT WALK TRAIL; ON DISPLAY FLASHING STOPPED HAND AT THEIR WALK CLEARANCE (DON'T WALK) THEN DISPLAY A SOLID UPSTRAID WALK.

**SIGNAL DISPLAY SEQUENCE:
(PREFERENTIAL PHASING)**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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SIGNAL TIMINGS

INTERVAL									
	1	2	3	4	5	6	7	8	9
WALK									
DONT WALK									
NIN INITIAL		15		20		19			
NIN MAX		30		34		15			
ADDERH		1.5				1.5			
VEH EXT		3.0		3.0					
TIM BFR REDUC		4.0				4.0			
TIME TO REDUC									
NIN GAP									
MAX LIMIT		30		30		30			
MAXIMUM 2		60		35		60			
YELLOW		3.0		3.0		3.0			
RED CLEAR		1.7		2.5		1.7			

LOOP DETECTOR INSTALLATION CHART

PHASE/ LOOP LTR#				DETECTOR		WIRED TO		OPERATION		SPECIAL FEATURES		LOOP DESIGN		
AMP NO.		CHAN NO.		LOCK		PULSE		DELAY		EXT		SIZE		
				NON-LOCK		PRES		SEC		SWITCHING, etc.		X		
								SEC		TIME OF DAY-TOP		NO.OF TURNS		
												DIST. FROM		
2A				2	X		X					6' X 6'	4	255'
2B				2	X		X					6' X 6'	4	255'
4A				4	X		X					6' X 30'	2-4-2	0'
4B				4	X		X					6' X 30'	2-4-2	0'
6A				6	X		X					6' X 6'	4	255'
6B				6	X		X					6' X 6'	4	255'

NOTE:

Install Backplates on All Signal Heads
Coordinate with Existing Utilities for
Placement of Conduit and Pole
Foundations.

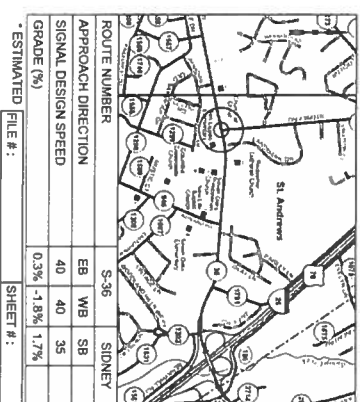
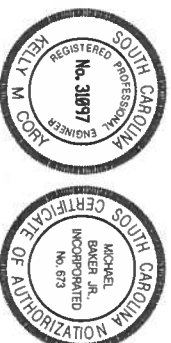
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FOR /
CONSTRUCTION:

DATE _____



• ESTIMATED
FILE #

“

SCDOT
SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

ST. ANDREWS SIGNAL UPGRADE

SPECIFIC LOCATION ST. ANDREWS RD (S-36

SIDNEY RD (S-173)

CITY	COUNTY
COLUMBIA	LEXINGTON

APPROVED BY	
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DIETOLIT & TMAFICIN ENLUSSEN

SCALE	DATE	SHEET NO.	INDEX
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1"= 30 '	10/2013	OF
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