

GENERAL CONSTRUCTION NOTES:

INSTALLATION AND CONSTRUCTION SHALL CONFORM TO THE DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS SECTIONS APPLICABLE, STANDARD PLANS DATED AND EFFECTIVE FOR THE CURRENT YEAR, AND ANY SPECIAL MUNICIPALITY CODE PROVISIONS.

1. THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE SUBCONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES INCLUDING THOSE NOT SHOWN ON PLANS AND VERIFY ALL JOB SITE CONDITIONS, HAND EXCAVATE FOUNDATION UNTIL CLEAR OF ALL SUBSTRUCTURES AND PROTECT ALL FACILITIES DURING CONSTRUCTION. SUBCONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR UNDERGROUND UTILITY REMOVAL OR RELOCATION WITH RESPECTIVE UTILITY OWNERS AS MAY BE REQUIRED SUFFICIENTLY IN ADVANCE TO PREVENT DELAY IN OPERATIONS.
2. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND UTILITIES ENCOUNTERED IN AREAS WHERE EXCAVATIONS ARE INDICATED AND SHALL REPAIR ANY SUCH DAMAGE AT OWN EXPENSE. WHERE UTILITY LINES MUST BE MAINTAINED UNDER STRUCTURE, THEY SHALL BE PROPERLY SLEEVED THROUGH FOUNDATION.
3. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR REPAIR OF ANY DAMAGE CAUSED BY THEM OR THEIR SUBCONTRACTORS.
4. THE SUBCONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND NOTIFY ALL UTILITIES AND THE CITY AT LEAST 72 HOURS IN ADVANCE OF CONSTRUCTION.
5. THE SUBCONTRACTOR SHALL CALL THE TRANSPORTATION TRAFFIC DIVISION, FIVE (5) DAYS PRIOR TO THE START OF WORK FOR A TRAFFIC CONTROL PLAN APPOINTMENT
6. THE SUBCONTRACTOR IS REQUIRED TO SUBMIT A WEEKLY SCHEDULE PRIOR TO START OF WORK EACH WEEK. (NO EXCEPTIONS)
7. POLE MOUNTED DETECTOR AND EQUIPMENT LOCATIONS SHALL BE AS DEPICTED ON SITE PLAN. THE SUBCONTRACTOR SHALL VERIFY EQUIPMENT FIELD LOCATIONS WITH THE ACS IMPLEMENTATION MANAGER (301) 357-9403 OR LOCAL AND/OR EXCAVATION AUTHORITY AND ACS PRIOR TO INSTALLATION.
8. THE SUBCONTRACTOR SHALL SUPPLY AND INSTALL ALL CONDUCTORS NECESSARY FOR THE INTENDED OPERATION AS NOTED ON THESE PLANS, NEC AND ALL APPLICABLE MUNICIPALITY CODES.
9. PROVIDE ANCHOR BOLT NUT COVERS IF REQUIRED DUE TO EXTERIOR INSTALLATION.
10. ALL PULLBOXES AND COVERS SHALL BE CONCRETE OR PVC AS REQUIRED BY THE MUNICIPALITY. ALL PULLBOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED OR REQUIRED BY THE MUNICIPALITY.
11. ALL CONCRETE FORMS ARE TO BE INSPECTED BY LOCAL AUTHORITIES BEFORE CONCRETE IS PLACED.
12. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AND COORDINATION WITH THE SERVING (ELECTRICAL) UTILITY COMPANY AND PAY REQUIRED FEES FOR SERVICE CONNECTIONS.
13. THE SUBCONTRACTOR TO OBTAIN A NO FEE ENCRDACHMENT PERMIT FROM THE CITY PRIOR TO COMMENCEMENT OF WORK. ALL WORK SHALL BE INSPECTED BY CITY FORCES. AT COMPLETION OF PROJECT CONTACT THE CITY ENGINEER 24 HOURS PRIOR TO COMPLETION OF WORK.
14. THE SUBCONTRACTOR IS TO BUILD AND MAINTAIN A CONSTRUCTION BARRICADE. TRAFFIC CONTROLS SHALL BE PER THE LATEST TMUTCD STANDARDS TO INCLUDE THE ARROW BOARD. NO LANE CLOSURES DURING PEAK TRAFFIC HOURS.
15. ALL SUBCONTRACTORS TO PROVIDE LIABILITY INSURANCE AND WORKERS COMPENSATION BENEFITS IN ACCORDANCE WITH STATE LAW FOR ALL WORKERS AND AGENTS WHO WILL BE ON THE SITE AT ANY TIME WHILE PERFORMING WORK ON THIS PROJECT. ALL WORK SHALL BE IN ACCORDANCE WITH NEC, ALL LOCAL, STATE AND FEDERAL CODES, ORDINANCES AND ANY APPLICABLE AMENDMENTS.

16. ALL DEBRIS, EXCESS MATERIAL, ETC. IS TO BE REMOVED BY THE SUBCONTRACTOR BY THE END OF THE JOB. JOB TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT CITY APPROVAL.
17. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, FEES AND INSPECTIONS AS MAY BE REQUIRED FOR COMPLETION OF THE JOB AS PER ALL GOVERNING AGENCIES.
18. THE SUBCONTRACTOR TO PROVIDE COST ESTIMATE FOR ALL WORK SHOWN ON DRAWINGS AND WORK NORMALLY REQUIRED TO CARRY OUT THE DESIGN INTENT OF THESE DRAWINGS.
19. DRAWINGS ARE NOT TO BE SCALED. WORK SHALL BE GOVERNED BY DIMENSION ONLY. DISCREPANCIES BETWEEN THE DRAWINGS AND/OR THE EXISTING SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF ACS IMMEDIATELY.
20. P.R.C. EQUIPMENT SHALL NOT BE INSTALLED ON MEDIANS LESS THAN FIVE FEET (5') IN WIDTH.
21. P.R.C. RELATED EQUIPMENT SHALL NOT BE INSTALLED WITHIN FIVE FEET (5') OF FIRE HYDRANT.
22. P.R.C. RELATED EQUIPMENT SHALL NOT BE INSTALLED WITHIN FOUR FEET (4') OF ADA RAMPS.
23. SUBCONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS TO ACS ENGINEERING DEPARTMENT WITHIN THIRTY (30) DAYS OF CONSTRUCTION COMPLETION.
24. SUBCONTRACTOR SHALL COMPLETE A "RLC POST CONSTRUCTION INSTALLATION ACCEPTANCE FORM" FOR EACH RLC INSTALLED. COMPLETED FORMS SHALL BE FORWARDED TO ACS CONSTRUCTION DEPARTMENT.
25. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE RESPECTIVE OWNERS AND OTHER AGENCIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. CONTACT:
- * GAS COMPANY
- * WATER DISTRICT
- * PHONE COMPANY
- * CABLE COMPANY
- * LOCAL AND/OR STATE EXCAVATION AUTHORITY

SPECIFIC CONSTRUCTION NOTES:

1. THE SUBCONTRACTOR SHALL INSTALL ALL SUBSTRUCTURES ACCORDING TO LOCAL GOVERNING AGENCY FROST LINE REQUIREMENTS WHERE APPLICABLE.
2. THE SUBCONTRACTOR SHALL MODIFY ALL SIDEWALKS WHERE NECESSARY, IN COMPLIANCE WITH THE ADA STANDARDS, TO ALLOW ACCESS FOR HANDICAP PEDESTRIAN PASSAGE.

Red Light Camera Installation - General Notes & Index

INDEX OF PLANS

SHEET NUMBER	LOCATION/DESCRIPTION
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SIG 6	FLASH UNIT TO CAMERA POLE WIRING DETAILS
SIG 7	PELCO POLE DETAILS
SIG 8	CAMERA UNIT/DUAL FLASH CONFIGURATION



12410 MILESTONE CENTER DRIVE
4TH FLOOR
GERMANTOWN, MD 20876
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Prepared for:

SR 1005 (Six Forks Road)
at
Dartmouth Road/North Hills Mall

Division 5Wake CountyRaleigh

PLAN DATE: Jan 2009REVIEWED BY:

PREPARED BY:RKA PROJ. NO.: 08232 (240)

REVISIONSINIT. DATE

SIGNATUREDATE

Sig. Inventory No. 05-0454



8 Phase
Fully Actuated
(Raleigh Signal System)

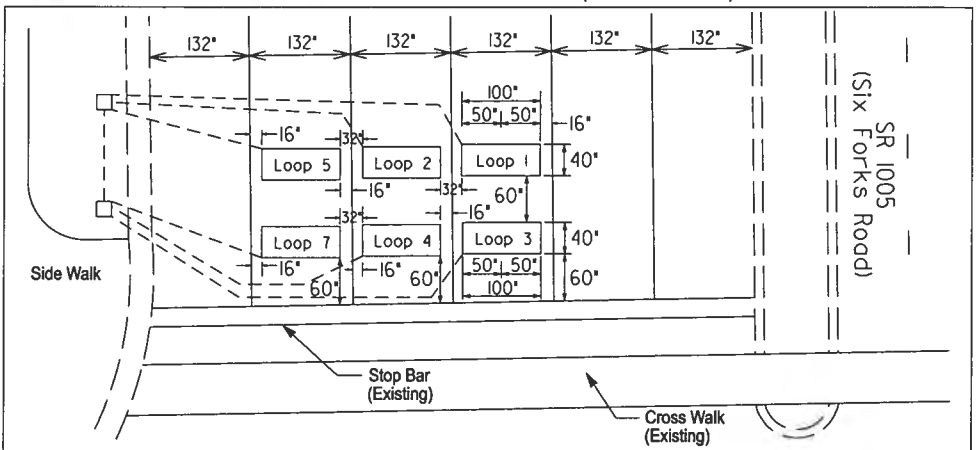
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated July 2006, "Standard Specifications for Roads and Structures" dated July 2006 and all applicable sections of the latest version of the generic Project Special Provisions. The PSP can be accessed at the following website:
<http://www.ncdot.org/doh/preconstruct/traffic/ltss/>
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Pavement markings are existing.
- Phase 1 and/or phase 5 may be lagged.
- Phase 3 and/or phase 7 may be lagged.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "DON'T WALK" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Contractor to remove existing red light camera unit and loops on NB approach and install new equipment as shown on this plan.

LEGEND

PROPOSED	EXISTING
	N/A
N/A	
N/A	
N/A	

LOOP LOCATION DETAIL
(NOT TO SCALE)



Red Light Camera Installation - Site Plan

ACS
Germantown, MD

12410 MILESTONE CENTER DRIVE
4TH FLOOR
GERMANTOWN, MD 20876
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Division 5 Wake County Raleigh

PLAN DATE: Jan 2009 REVIEWED BY: [Signature]

PREPARED BY: [Signature] RKA PROJ. NO.: 08232 (240)

REVISIONS: [Table with columns for REVISIONS, INIT., DATE]

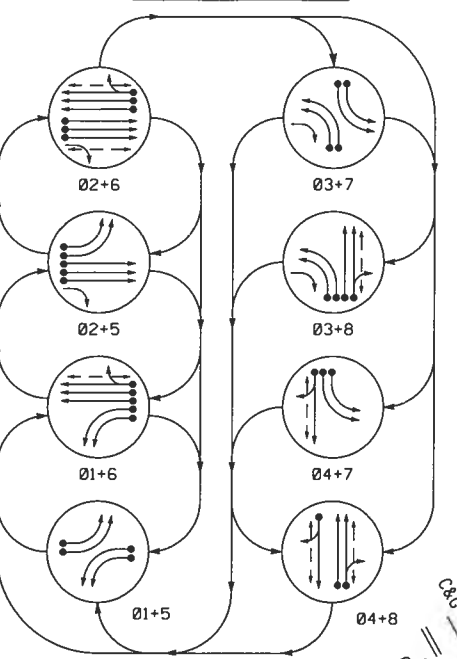
SCALE: 1"=40'

SEAL: [Signature] DATE: 1-28-2009

SIG. INVENTORY NO. 05-0454

SIGNAL FACE	PHASE							
	01+5	02+6	03+7	04+8	05+9	06+0	07+1	08+2
11, 12	---	---	---	---	---	---	---	---
21, 22	R	R	G	G	R	R	R	Y
23	R	R	G	G	R	R	R	Y
31, 32	---	---	---	---	---	---	---	---
41, 42	R	R	R	R	R	R	G	G
51, 52	---	---	---	---	---	---	---	---
61, 62	R	G	R	G	R	R	R	Y
71, 72	---	---	---	---	---	---	---	---
81, 82	R	R	R	R	R	G	R	G
P21, P22	DW	DW	W	W	DW	DW	DW	DRK
P41, P42	DW	DW	DW	DW	DW	W	W	DRK
P61, P62	DW	W	DW	W	DW	DW	DW	DRK
P81, P82	DW	DW	DW	DW	W	DW	W	DRK

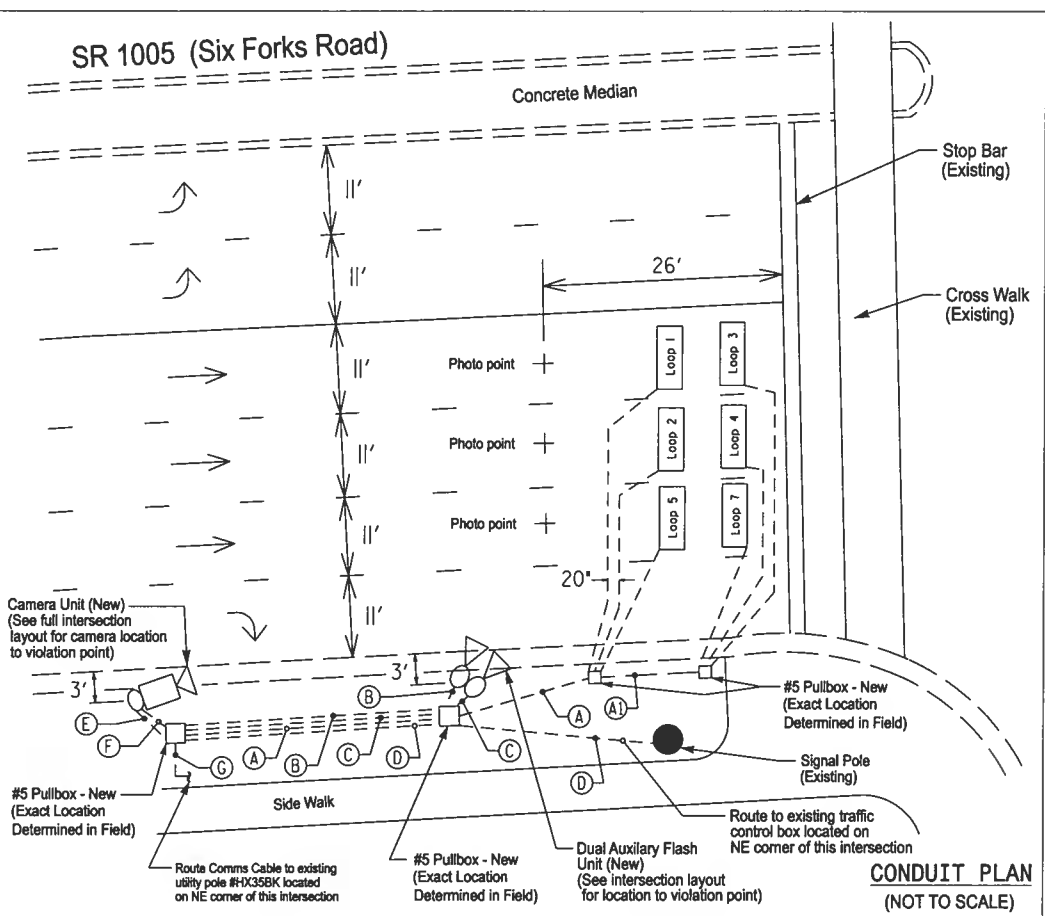
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

CONDUIT PLAN
(NOT TO SCALE)



CONDUIT SCHEDULE

LETTER	CONDUIT SIZE	CONDUIT CONSTRUCTION	TYPE OF SERVICE	EQUIPMENT SERVICED	CABLE QUANTITY	CABLE DETAILS
A	2"	PVC	COMMS	LOOPS 1, 2, 3, 4, 5, 7	6	5
B	2"	PVC	COMMS	LOOPS 3, 4, 7	3	5
C	2"	PVC	COMMS	DUAL AUX FLASH UNIT	2	4
D	2"	PVC	POWER	DUAL AUX FLASH UNIT	6	1
E	2"	PVC	POWER	CAMERA UNIT POWER, RED/YELLOW PHASE CONTROL	3	3 1
F	2"	PVC	POWER	GS-II UNIT	3	9 1
G	2"	PVC	COMMS	GS-II UNIT	2	4 6 5 1 4A
H	2"	PVC	COMMS	TO D-MARC LOCATION	1	4B

CABLE SCHEDULE

- 14 AWG THHN
- 12 AWG THHN
- 10 AWG THHN
- IMS 40-2, 3 PAIR 18AWG w/ POLYETHYLENE JACKET (COMMS CABLE)
- CAT-5e (BELDEN 7919A OR EQUIVALENT)
- IMS 50-2, 12 AWG
- IMS 51-7, 14 AWG
- 12 STRAND FIBER OPTIC CABLE
- RG-59 VIDEO CABLE

LOOP & DETECTOR UNIT INSTALLATION CHART
SE-PAC 2070 CONTROLLER WITH 170 CABINET

INDUCTIVE LOOPS					DETECTOR PROGRAMMING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	NEW	ASSIGNED PHASE	TIMING		OPERATION MODE								EXTERNAL LOOPS	STATUS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
						DELAY	EXTEND (SECONDS)	VEHICLE	PEDESTRIAN	1 CALL	2 STOP	3 STOP	4 STOP	5 STOP	6 STOP			7 STOP	8 STOP	9 STOP	10 STOP	11 STOP	12 STOP	13 STOP	14 STOP	15 STOP	16 STOP	17 STOP	18 STOP	19 STOP	20 STOP	21 STOP	22 STOP	23 STOP	24 STOP	25 STOP	26 STOP	27 STOP	28 STOP	29 STOP	30 STOP	31 STOP	32 STOP	33 STOP	34 STOP	35 STOP	36 STOP	37 STOP	38 STOP	39 STOP	40 STOP	41 STOP	42 STOP	43 STOP	44 STOP	45 STOP	46 STOP	47 STOP	48 STOP	49 STOP	50 STOP	51 STOP	52 STOP	53 STOP	54 STOP	55 STOP	56 STOP	57 STOP	58 STOP	59 STOP	60 STOP	61 STOP	62 STOP	63 STOP	64 STOP	65 STOP	66 STOP	67 STOP	68 STOP	69 STOP	70 STOP	71 STOP	72 STOP	73 STOP	74 STOP	75 STOP	76 STOP	77 STOP	78 STOP	79 STOP	80 STOP	81 STOP	82 STOP	83 STOP	84 STOP	85 STOP	86 STOP	87 STOP	88 STOP	89 STOP	90 STOP	91 STOP	92 STOP	93 STOP	94 STOP	95 STOP	96 STOP	97 STOP	98 STOP	99 STOP	100 STOP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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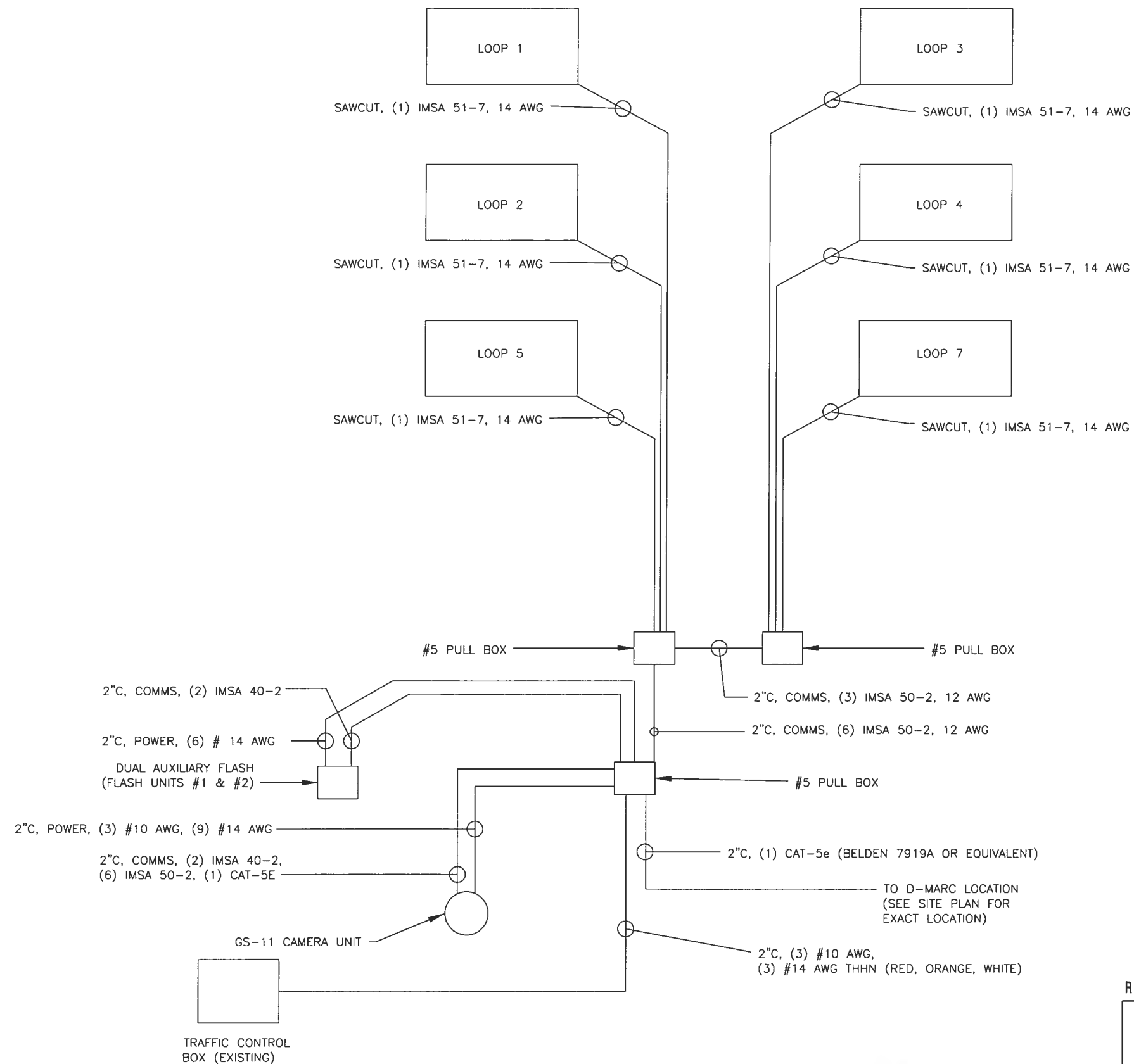
NOTES

- ACS TO PROVIDE CAMERA POLE AND CAMERA UNIT, SUBCONTRACTOR TO PROVIDE PELCO FOUNDATION. POLES SHALL BE FIELD LOCATED AND SHALL BE 36" MINIMUM FROM FACE OF CURB TO CENTER OF BASE. SEE DETAIL. LOCATION OF EQUIPMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- INSTALL TO LOCAL AND NEC SPECIFICATIONS.
- EACH POLE SHALL BE GROUNDED WITH #10 SOLID GROUND WIRE AND 10' GROUND ROD.
- CONTRACTOR SHALL HAND DIG POLE FOUNDATION FOR ACS CAMERA OR FLASH UNIT POLES.
- CONDUIT SHALL BE INSTALLED BY MEANS OF TRENCHING. TRENCHING SHALL BE IN ACCORDANCE TO CURRENT DOT STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL MODIFY EXISTING 120VAC SERVICE. A DUPLEX OUTLET SHALL BE INCLUDED FOR ACCESS BY DOT PERSONNEL.
- INSTALL NEW PULL BOX - SEE GENERAL NOTES #10, SHEET SIG-1.
- CONTRACTOR TO CLEAN UP DEBRIS AROUND WORK AREA AND RESTORE LANDSCAPE.
- INSTALL IN-LINE FUSE HOLDERS RATED AT 20 AMPS FOR POWER.
- INSTALL IN-LINE FUSE HOLDERS RATED AT 5 AMPS FOR PHASE CONDUCTORS.
- INSTALL IN-LINE FUSE HOLDERS RATED AT 15 AMPS FOR EACH AUX FLASH POWER.
- CONTRACTOR SHALL REPAIR AND REPLACE SIDEWALK IN KIND AS REQUIRED TO INSTALL EQUIPMENT AND CONDUITS.


SE-PAC 2070 TIMING CHART

FEATURE	PHASE							
	1	2	3	4	5	6	7	8
Min Green *	7	10	7	7	7	10	7	7
Passage Gap *	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0
Maximum Green *	15	50	15	30	15	50	15	30
Yellow Change	3.0	3.8	3.0	3.2	3.0	3.8	3.0	3.0
Red Clear	3.7	2.3	3.7	3.7	3.7	2.7	3.6	3.4
Walk *	-	7	-	7	-	7	-	7
Pedestrian Clear	-	18	-	27	-	15	-	25
Added Initial *	-	-	-	-	-	-	-	-
Maximum Initial *	-	-	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	-	MIN RECALL	-	-
Vehicle Call Memory	NON-LOCK	LOCK	NON-LOCK	NON-LOCK	NON-LOCK	LOCK	NON-LOCK	NON-LOCK
Dual Entry	-	-	-	-	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON	ON	ON	ON	ON



* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



Red Light Camera Installation - Single Line Diagram

<p style="text-align: center;"><i>Prepared for:</i></p>  <p style="text-align: center;">UNIVERSITY OF NORTH CAROLINA SCHOOL OF MANAGEMENT</p> <p style="font-size: small;">750 Greenfield Place, Garner, NC 27529</p>	<h1 style="margin: 0;">SR 1005 (Six Forks Road)</h1> <h2 style="margin: 0;">at</h2> <h3 style="margin: 0;">Dartmouth Road/North Hills Mall</h3>	<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto;"></div> <p style="text-align: center; font-weight: bold;">SEAL</p>																											
<div style="display: flex; justify-content: space-between;"> Division 5 Wake County Raleigh </div>																													
<div style="display: flex; justify-content: space-between;"> PLAN DATE: Jan 2009 REVIEWED BY: [Redacted] </div>																													
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 <p>Prepared for: The University of North Carolina System School of Geomatics Sciences</p> <p>758 Greenfield Plaza, Garner, NC 27529</p>	<p>SR 1005 (Six Forks Road) at Dartmouth Road/North Hills Mall</p>		<p>SEAL</p> 																					
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