3 Phase Fully Actuated (Elizabeth City Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
 Do not program signal for late night flashing operation unless otherwise directed by the
- Engineer.

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- 3. Phase 1 may be lagged.
 4. Set all detector units to presence mode. 5. In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- 6. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
 7. Pavement markings are existing.
- 8. Maintain emergency vehicle preemption switch in fire staion.
- 9. The Division Traffic Engineer will determine Delay Time and Preempt Dwell Min Time for the emergency vehicle preemption timing.

 10. Maximum times shown in timing chart are for freerun operation only. Coordinated signal system

LEGEND

Traffic Signal Head

Modified Signal Head

Sign

Pedestrian Signal Head With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy

Inductive Loop Detector

Controller & Cabinet

Junction Box 2-in Underground Conduit

> Right of Way Directional Arrow

Wheel Chair Ramp

"EMERGENCY SIGNAL" Sign (R10-13) 78"X30"

"STOP HERE ON RED" Sign (R10-6) 24"X36"

No Left Turn Sign (R3-2)

"EMERGENCY VEHICLE" Sign (W11-8)

timing values supersede these values.

ASC/3 DETECTOR INSTALLATION CHART												
	DETE	CTOR			PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1 /	CVC0 0 2 4	2 4 2	2-4-2 -	1	Yes	-	10	-	S	-	Х	
1 A	6X:60	0	2-4-2	2 7 2	6	Yes	-	3	-	G	-	Х
1B	6X:60	0	2-4-2	-	1	Yes	-	15	-	S	-	Х
2·A	6X6	300	4	-	2	Yes	-	-	Χ	N	-	Х
2·B	6X6	300	4	-	2	Yes	-	-	Χ	N	-	Х
6·A	6X6	300	4	-	6	Yes			Х	Ν	-	X
6·B	6X6	300	4	-	6	Yes	_		Χ	N	-	Х
8·A	6X:60	0	2-4-2	-	8	Yes	_	3	-	S	-	Х

81 82

SIGNAL FACE I.D.

TABLE OF OPERATION

SIGNAL

FACE

11

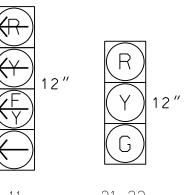
21,22

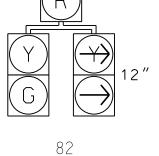
23,24,25,26

82

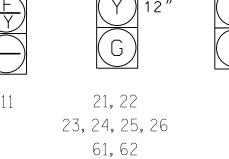
PHASE

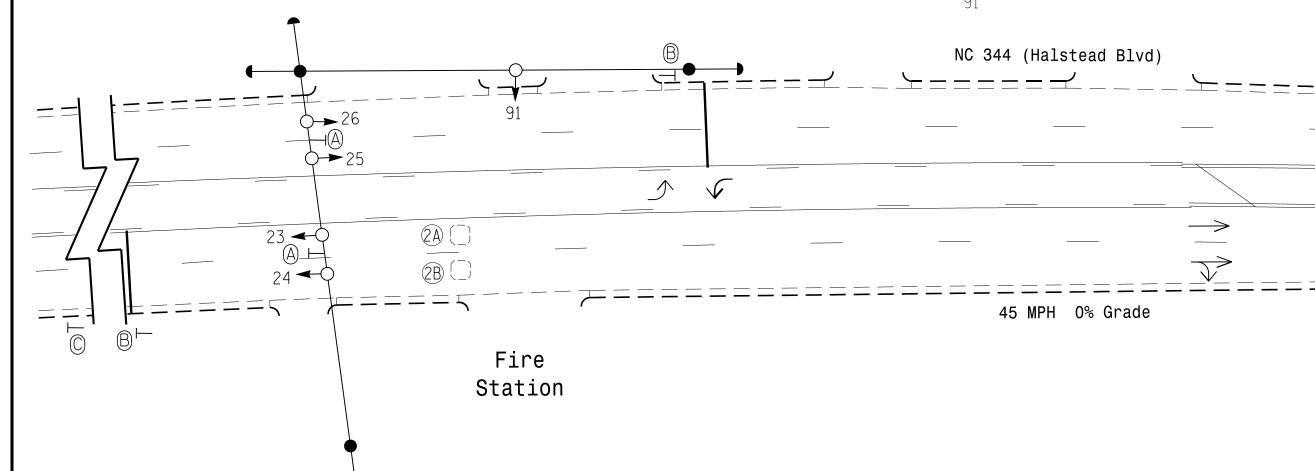
All Heads L.E.D.





21, 22 23, 24, 25, 26 61,62





EV PREEMPT PHASES

EVP 2 (Ø9)

PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

UNSIGNALIZED MOVEMENT

PEDESTRIAN MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

DETECTED MOVEMENT

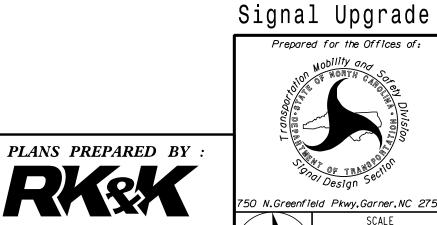
ASC/3	TIMIN	G CHAR	Т			
		PHASE				
1	2	6	8	9	OLB	OLC
7	12	12	7	60	0.1	0.1
-	_	-	-	-		
-	_	-	ı	-		
1.0	6.0	6.0	1.0	-		
15	75	75	25	-		
3.0	4.5	4.5	3.0	4.5	4.5	4.5
2.3	1.3	1.3	2.3	1.3	1.3	1.3
-	0	0	-	-		
-	1.5	1.5	-	-		
-	34	34	-	-		
-	15	15	_	-		
	45	45	_	-		
-	3.0	3.0	_	-		
-	-	-	_	-		
-	VEH. RECALL	VEH. RECALL	-	-		
=	-	-	-	-		
Χ	X	Х	X	X		

*	These	values	may b	e field	adjusted	l. Do	not a	djust Mi	n Green	and	Extension	on tim	es for phase	es	
2	and 6	6 lower	than	what is	shown.	Min	Green	for all	other pho	ases s	hould i	not be	lower than	4	seconds.

ASC/3 EV PRI	EEMPT
FUNCTION	PRE 2
Exit Phase(s)	2,6
Preempt Override	OFF
Delay Time	* * *
Ped Clear Through Yellow	N
Terminate Phases	N
Entrance Walk	255 *
Entrance Ped Clear	255 *
Entrance Min Green	1
Entrance Yellow Change	4.5
Entrance Red Clear	1.9
Minimum Dwell Time	* * *
Preempt Input Extension Time	0
Preempt Max Time	75
Exit Yellow Change	25 . 5*
Exit Red Clear	25 . 5*

* Allows normal phase times to be used ** Program Timing on Optical Detection Unit * * * See Note 9.

RUMMEL, KLEPPER & KAHL, LLP 900 RIDGEFIELD DRIVE SUITE 350 RALEIGH, NORTH CAROLINA 27609–3960



NC LICENSE NO. F-0112 • (919) 878-9560

NC 344 (Halstead Blvd)

MODILITY ON SO	N
Transport	
Company of the same of the sam	Div.
STOP TRANSPORT	DI ANI

NC 344 (Halstead Boulevard)

<u>PROPOSED</u>

 \bigcirc

N/A

N/A

Walker Avenue

vision 1 Pasquotank County Elizabeth City PLAN DATE: September 2018 REVIEWED BY: CBHolden

50 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: DTSears REVIEWED BY: SCALE REVISIONS INIT. DATE 30

SKI CESSIONAL SEAL 033753 · FNGINEER

EXISTING

-

N/A

-

K K K

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DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL SIGNATURES COMPLETED

CARO/

SIG. INVENTORY NO.

FEATURE

Min Green *

Ped Clear

Yellow

Red Clear

Max Initial *

Actuations B4 Add *

Seconds / Actuation *

Time Before Reduction

Time To Reduce *

Minimum Gap

Locking Detector

Simultaneous Gap

Recall Position

Dual Entry

Veh. Extension