PHASING DIAGRAM

Ø2+6   Ø4+7

Ø4+8

PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	Ø2+6	Ø4+7	Ø4+8	FLASH
21	FY	R	R	Y
22, 23	G	R	R	Y
41, 42	R	G	G	R
61	FY	R	R	Y
62, 63	G	R	R	Y
71	R	R	FY	R
81	R	FY	FY	R
82, 83	R	R	G	R
P21, P22	W	DW	DW	DRK
P41, P42	DW	W	W	DRK
P61, P62	W	DW	DW	DRK
P81, P82	DW	W	W	DRK

W – Walk
DW – Don't Walk
DRK – Dark

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

	INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	70	4	-	2	Y	Y	-	-	-	-	Y
2B	6X6	70	4	-	2	Y	Y	-	-	-	-	Y
2C	6X40	0	2-4-2	-	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	10	-	Y
6A	6X6	70	3	-	6	Y	Y	-	-	-	-	Y
6B	6X6	70	3	-	6	Y	Y	-	-	-	-	Y
6C	6X40	0	2-4-2	-	6	Y	Y	-	-	-	-	Y
7A	6X40	0	2-4-2	-	7	Y	Y	-	-	15	-	Y
					4	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	-	8	Y	Y	-	-	3	-	Y
8B	6X40	0	2-4-2	-	8	Y	Y	-	-	10	-	Y
S1	6X6	+230	EXIST	-	-	-	-	-	-	-	Y	Y
S2	6X6	+230	EXIST	-	-	-	-	-	-	-	Y	Y

SIGNAL FACE I.D.

All Heads L.E.D.

71   21   22,23   Accessible
       61   41,42   Pedestrian
       81   62,63   Signal
             82,83

P21, P22
P41, P42
P61, P62
P81, P82

12"   12"   12"   16"

3 Phase
Fully Actuated
(High Point Signal System)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 7 may be lagged.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
8. Pavement markings are existing.
9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	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	
N/A	Right of Way	---
	Directional Arrow	
	Metal Pole with Mastarm	
	Type II Signal Pedestal	
N/A	Curb Ramp	
(A)	Street Name Sign (D3-1)	(A)
(B)	"TURNING TRAFFIC MUST YIELD TO PEDESTRIANS" Sign (R10-15)	(B)
(C)	No U-Turn Sign (R3-4)	(C)

OASIS 2070 TIMING CHART

FEATURE	PHASE				
	2	4	6	7	8
Min Green 1 *	10	7	10	7	7
Extension 1 *	3.0	1.0	3.0	1.0	1.0
Max Green 1 *	45	25	45	20	25
Yellow Clearance	4.0	4.1	4.0	3.0	4.1
Red Clearance	2.1	1.7	2.1	2.6	1.7
Walk 1 *	7	7	7	-	7
Don't Walk 1	24	19	17	-	16
Seconds Per Actuation *	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode **	SOFT RECALL	-	SOFT RECALL	-	-
Vehicle Call Memory	YELLOW	-	YELLOW	-	-
Dual Entry	-	ON	-	ON	ON
Simultaneous Gap	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.
** May be changed to Min Recall by Time of Day at discretion of City Traffic Engineer.

ACCESSIBLE PEDESTRIAN SIGNAL OPERATION

SIGNAL FACE	VOICE	TONES	INTERVAL	SPEECH MESSAGE*
P21, P22	X	-	Walk	Parkway. Walk sign is on to cross Parkway.
			Flashing Don't Walk / Don't Walk	Wait. Wait to cross Parkway.
P41, P42	X	-	Walk	Main. Walk sign is on to cross Main.
			Flashing Don't Walk / Don't Walk	Wait. Wait to cross Main.
P61, P62	X	-	Walk	Parkway. Walk sign is on to cross Parkway.
			Flashing Don't Walk / Don't Walk	Wait. Wait to cross Parkway.
P81, P82	X	-	Walk	Main. Walk sign is on to cross Main.
			Flashing Don't Walk / Don't Walk	Wait. Wait to cross Main.

* Volume should be set to 5dB over ambient noise level.

Signal Upgrade

Labels on plan:
35 MPH -1% Grade
West Parkway Avenue
35 MPH -2% Grade
SR 1009 (North Main Street)
SR 1009 (North Main Street)
35 MPH +1% Grade
E. Parkway Ave.
35 MPH -3% Grade
Metal Pole #3
Metal Pole #2
Metal Pole #1

2A, 2B, 2C, 4A, 7A, 6A, 6B, 6C, 8A, 8B, S1, S2
61, 62, 63, 81, 82, 83, 21, 22, 23, 42, 41, 71
P61, P42, P41, P22, P21, P62, P81, P82