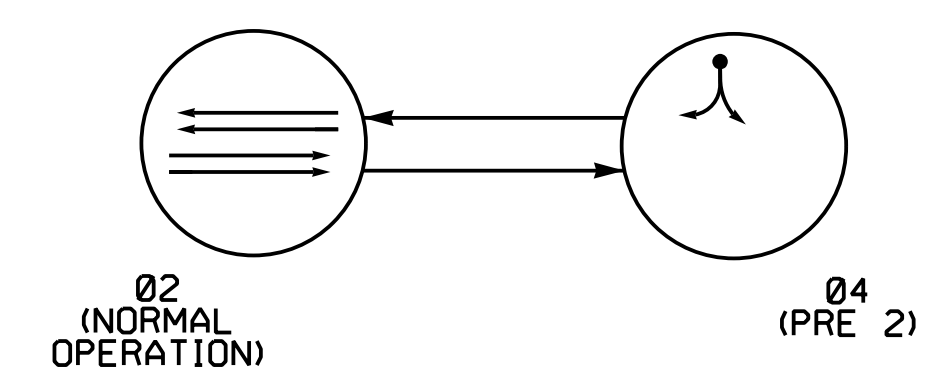


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

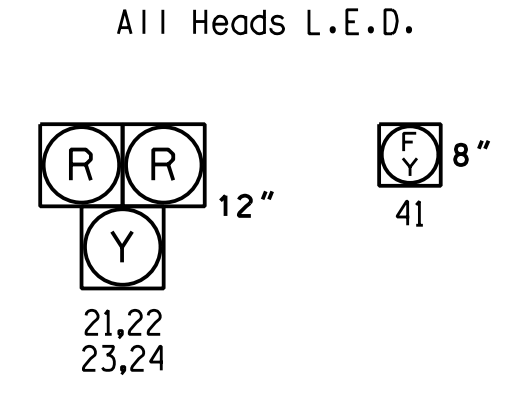
- ◄● DETECTED MOVEMENT
- ◄ UNDETECTED MOVEMENT (OVERLAP)
- ◄..... UNSIGNALIZED MOVEMENT
- ◄- - - - PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE				
	02 DARK	04 PRE 2	FLASH	STEADY RED	STEADY YELLOW
21,22	DRK	FY	Y	R	FR*
23,24	DRK	FY	Y	R	FR*
41	DRK	DRK	DRK	FY	DRK

\*Alternating Flash  
 Y - Steady Yellow  
 FY - Flashing Yellow  
 R - Steady Red  
 FR - Flashing Red  
 DRK - Dark

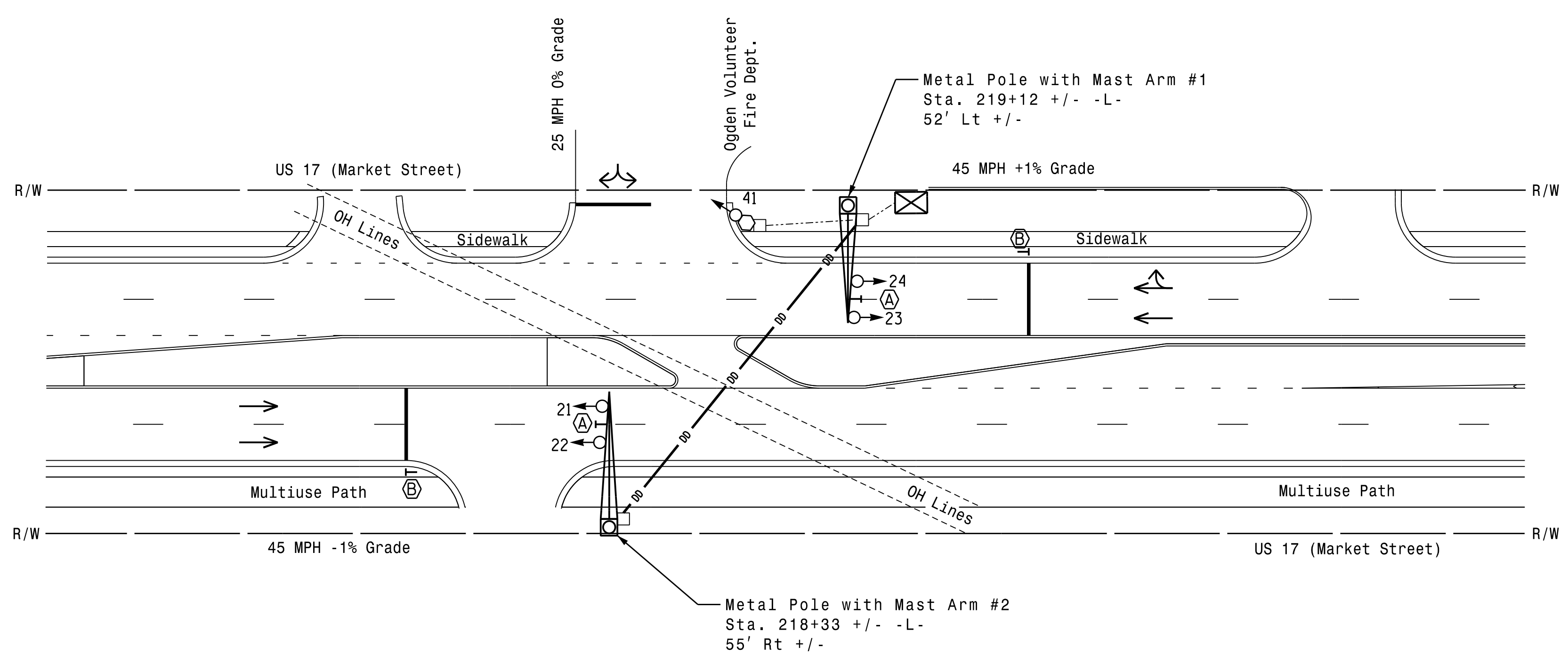
**SIGNAL FACE I.D.**



**2 Phase  
 Emergency Hybrid Beacon  
 Wilmington 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.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- The cabinet should be designed to include Auxiliary Output file for future use.
- Locate emergency vehicle preemption switch in Fire Department.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Signal head 41 shall remain Dark except during the phase 4 green interval (flashing yellow display).
- Signal system data:  
 Controller Asset #0635



**OASIS 2070 TIMING CHART**

FEATURE	PHASE		
	2	4 (PRE 2)	OLA
Min Green 1 *	12	5	5
Extension 1 *	0.0	0.0	
Max Green 1 *	30	30	
Yellow Clearance	5.0	3.0	4.6
Red Clearance	2.0	0.0	2.4
Walk 1 *	-	-	
Don't Walk 1 *	-	-	
Seconds Per Actuation *	-	-	
Max Variable Initial *	-	-	
Time Before Reduction *	-	-	
Time To Reduce *	-	-	
Minimum Gap	-	-	
Recall Mode	MIN RECALL	-	
Vehicle Call Memory	-	-	
Dual Entry	-	-	
Simultaneous Gap	ON	ON	

Serves as Flashing Yellow Time  
 Serves as Steady Yellow Clearance Time  
 Serves as All Red Clearance Time

**OASIS 2070  
 EV PREEMPT**

FUNCTION	PRE 2
Interval 1 - Dwell Green	255
Interval 1 - Dwell Yellow	0.0*
Interval 1 - Dwell Red	0.0*
Interval 5 - Exit Green	1
Interval 5 - Yellow	0.0
Interval 5 - Red	0.0
Exit Phase(s)	2
Priority	Medium
Delay Time	**
Min Green Before Pre	1
Ped Clear Before Pre	0
Yellow Clear Before Pre	0.0*
Red Clear Before Pre	0.0*
Dwell Min Time	**
Enable Backup Protection	N
Ped Clear Through Yellow	N
Omit Overlaps	-

\* Time defaults to time used for phase during normal operation  
 \*\* See Note 6.

PROPOSED	LEGEND	EXISTING
○→	Traffic Signal Head Sign	●→
□	Pedestrian Signal Head With Push Button & Sign	■
⊗	Inductive Loop Detector	⊗
□	Controller & Cabinet Junction Box	■
- - - -	2-in Underground Conduit	- - - -
N/A	Right of Way	- - - -
→	Directional Arrow	→
- - - -	Directional Drill	N/A
○	Metal Pole with Mastarm	○
○	Type II Signal Pedestal	●
Ⓐ	"EMERGENCY SIGNAL STOP ON FLASHING RED" Sign (R10-14A)	Ⓐ
Ⓑ	"STOP HERE ON RED" Sign (R10-6)	Ⓑ

**Signal Upgrade - Final Design**

**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

	Prepared For: US 17 (Market Street) at Ogden Volunteer Fire Dept.	SEAL 
	Division 03 New Hanover Co. Wilmington PLAN DATE: February 2018 REVIEWED BY: A.D. Klinksiek PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons	
750 N. Greenfield Pkwy, Garner, NC 27529 HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554 (919) 546-8997	SCALE 0 30 1"=30'	DocuSigned by: W. Tasha R. Simmons 8/1/2018 SIGNATURE DATE SIG. INVENTORY NO. 03-0635