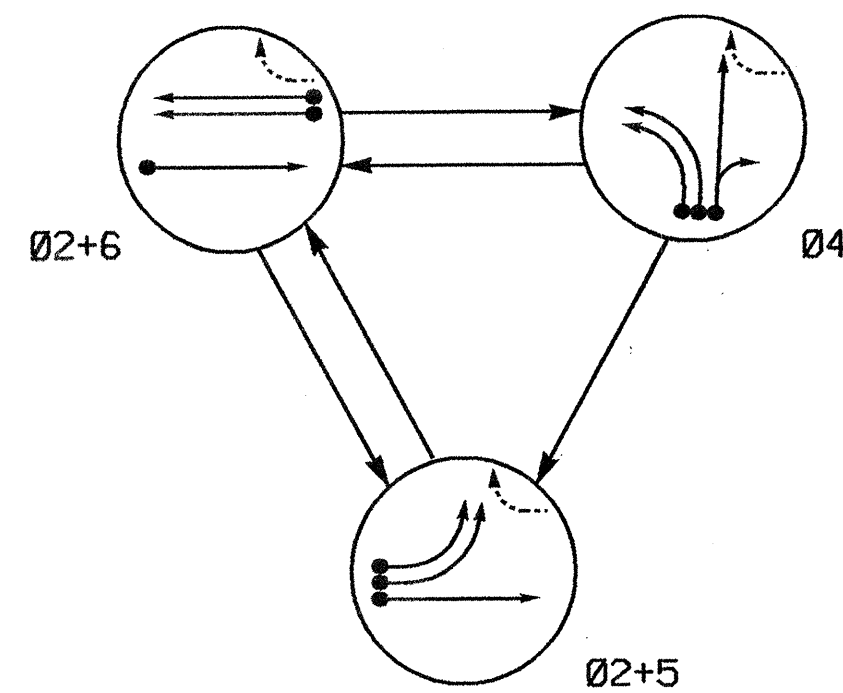


PHASING DIAGRAM



SIGNAL FACE	PHASE			
	Ø 2+5	Ø 2+6	Ø 4	Ø 5
21,22	G	G	R	Y
41,42	R	R	G	R
51,52	R	R	R	Y
61,62	R	G	R	Y

2070L LOOP & DETECTOR INSTALLATION												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
2A	1.8X1.8	5	100	-	2	Y	Y	-	-	-	-	-
4A*	1.8X1.8	2-4-2	0	-	4	Y	Y	-	-	-	-	-
4B	1.8X1.8	2-4-2	0	-	4	Y	Y	-	-	-	-	-
4C	1.8X1.8	2-4-2	0	-	4	Y	Y	-	-	-	10	-
4D	1.8X1.8	4	0	-	4	Y	Y	-	-	-	15	-
5A	1.8X1.8	2-4-2	0	-	5	Y	Y	-	-	-	-	-
5B	1.8X1.8	2-4-2	0	-	5	Y	Y	-	-	-	-	-
6A	1.8X1.8	6	120	-	6	Y	Y	-	-	-	-	-
6B*	1.8X1.8	6	120	-	6	Y	Y	-	-	-	-	-

* Connect Loops 4A & 6B

3 Phase Fully Actuated Isolated

NOTES

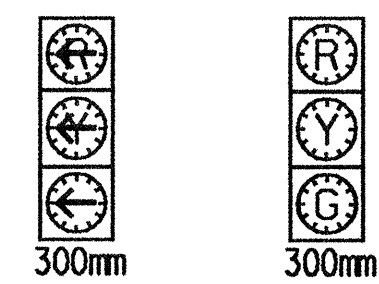
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Set all detector units to presence mode.

PHASING DIAGRAM DETECTION LEGEND

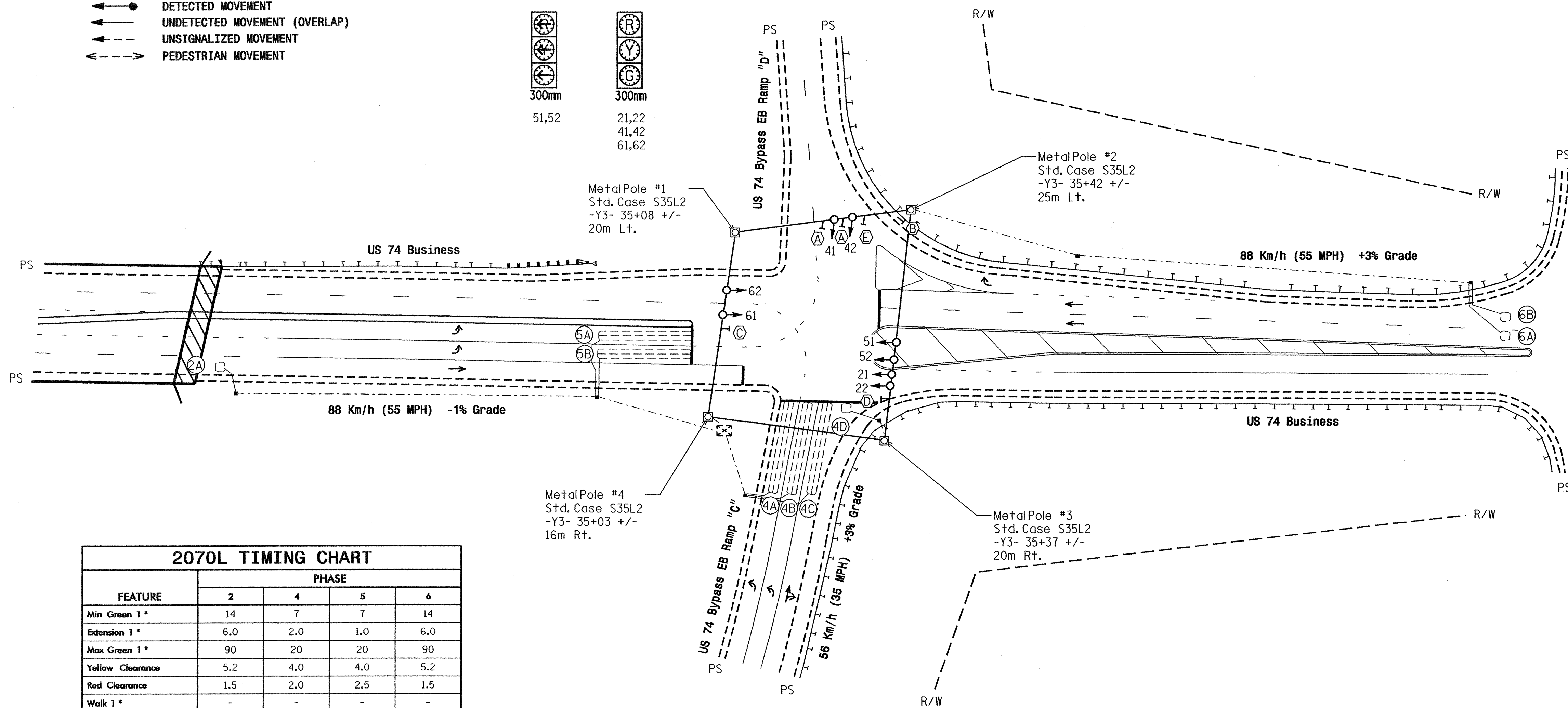
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.

○ Denotes L.E.D.



51,52 21,22
41,42
61,62



PLAN QUANTITIES	
Pay Item	Meters
Signal Cable	250
Messenger Cable	150
Lead-in Cable	190

LEGEND

- | PROPOSED | EXISTING |
|--|----------|
| ○ → Traffic Signal Head | ● → N/A |
| ○ → Modified Signal Head | ○ → N/A |
| ○ → Sign | ○ → N/A |
| ○ → Pedestrian Signal Head With Push Button & Sign | ○ → N/A |
| ○ → Signal Pole with Guy | ○ → N/A |
| ○ → Signal Pole with Sidewalk Guy | ○ → N/A |
| ○ → Inductive Loop Detector | ○ → N/A |
| ○ → Controller & Cabinet | ○ → N/A |
| ○ → Junction Box | ○ → N/A |
| ○ → 50mm Underground Conduit | ○ → N/A |
| ○ → Right of Way with Marker | ○ → N/A |
| ○ → Directional Arrow | ○ → N/A |
| ○ → Pavement Marking Arrow | ○ → N/A |
| ○ → Metal Strain Pole | ○ → N/A |
| ○ → Left Arrow "ONLY" Sign (R3-5L) | ○ → N/A |
| ○ → "YIELD" Sign (R1-2) | ○ → N/A |
| ○ → No Left Turn Sign (R3-2) | ○ → N/A |
| ○ → No Right Turn Sign (R3-1) | ○ → N/A |
| ○ → Combined Through and Right Arrow Sign (R3-6R) | ○ → N/A |

FEATURE	2070L TIMING CHART			
	2	4	5	6
Min Green 1 *	14	7	7	14
Extension 1 *	6.0	2.0	1.0	6.0
Max Green 1 *	90	20	20	90
Yellow Clearance	5.2	4.0	4.0	5.2
Red Clearance	1.5	2.0	2.5	1.5
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	2.5	-	-	1.5
Max Variable Initial *	38	-	-	44
Time Before Reduction *	15	-	-	15
Time To Reduce *	45	-	-	45
Minimum Gap	2.5	-	-	3.0
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	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.

New Installation - Final

	US 74 Business At US 74 Bypass EB Ramps "C" & "D"		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 24393 TIMOTHY J. WILLIAMS 3/9/04
	Division 6 Robeson County Lumberton PREPARED BY: JGalloway SCALE: 1:500	REVIEWED BY: DATE:	