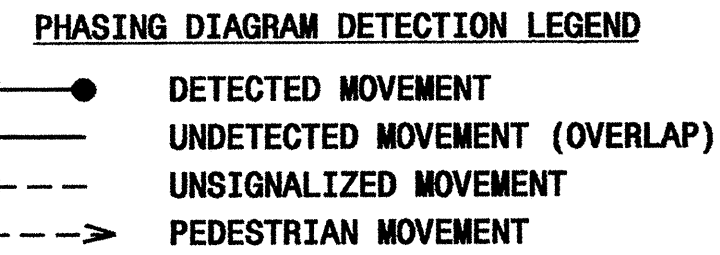
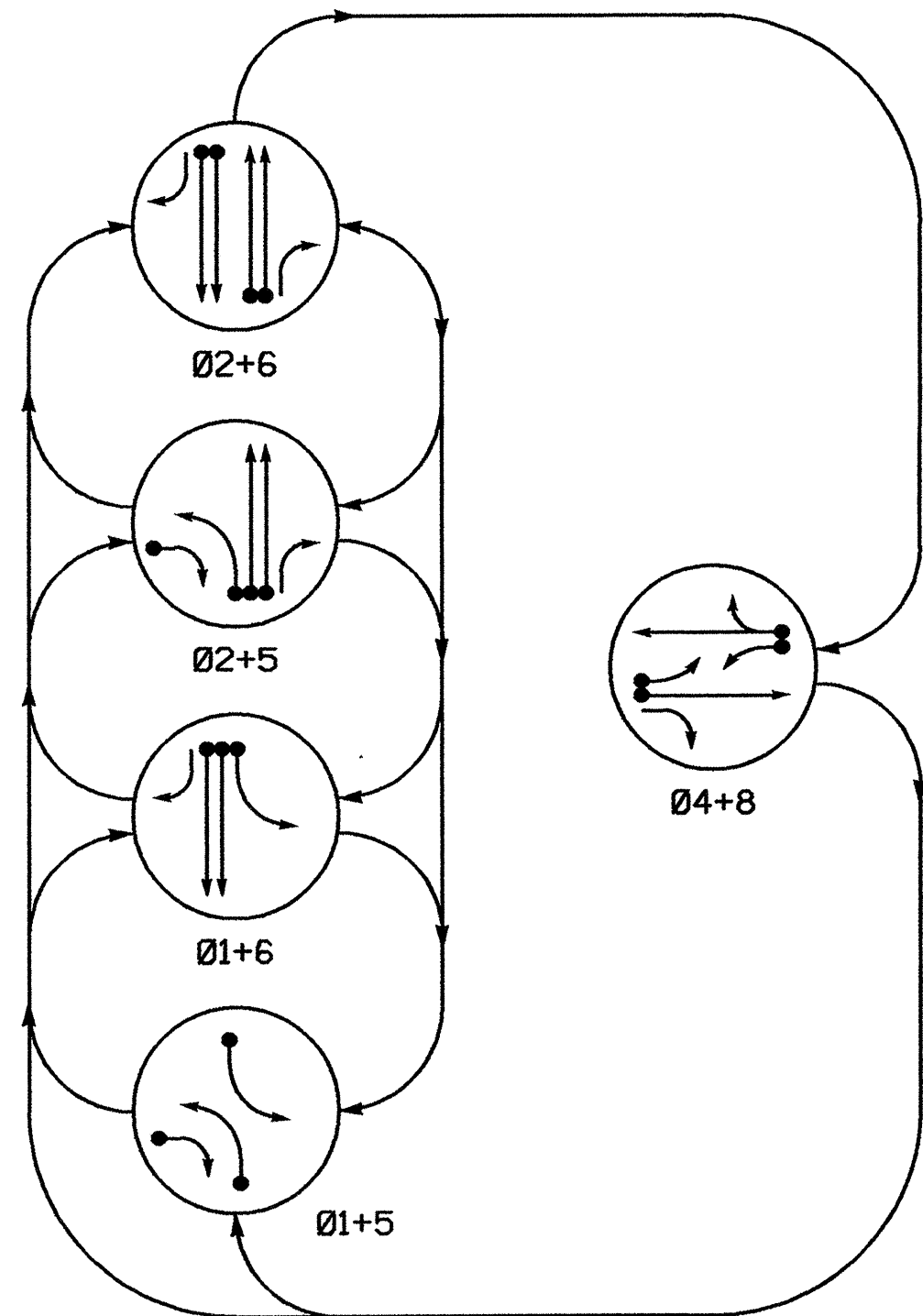
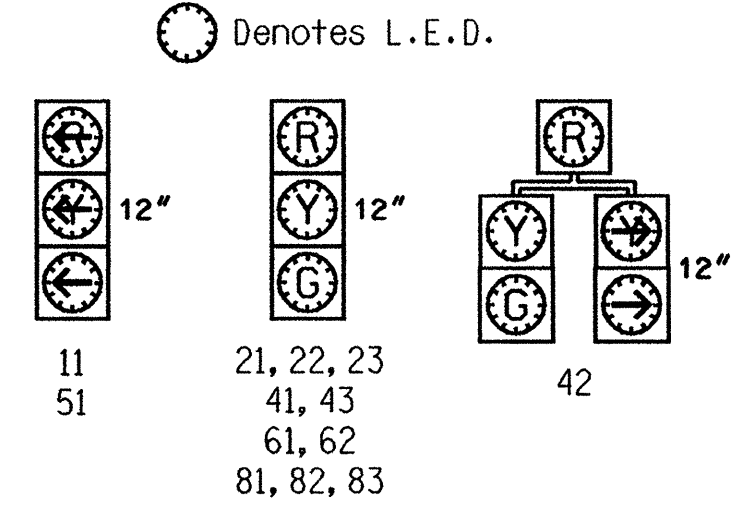


**PHASING DIAGRAM**



**SIGNAL FACE I.D.**



**TABLE OF OPERATION**

SIGNAL FACE	PHASE					FLASH
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8	
11	←	←	←	←	←	—
21, 22, 23	R	R	G	G	R	Y
41, 43	R	R	R	R	G	R
42	←	←	←	←	R	G
51	←	←	←	←	R	R
61, 62	R	G	R	G	R	Y
81, 82, 83	R	R	R	R	G	R

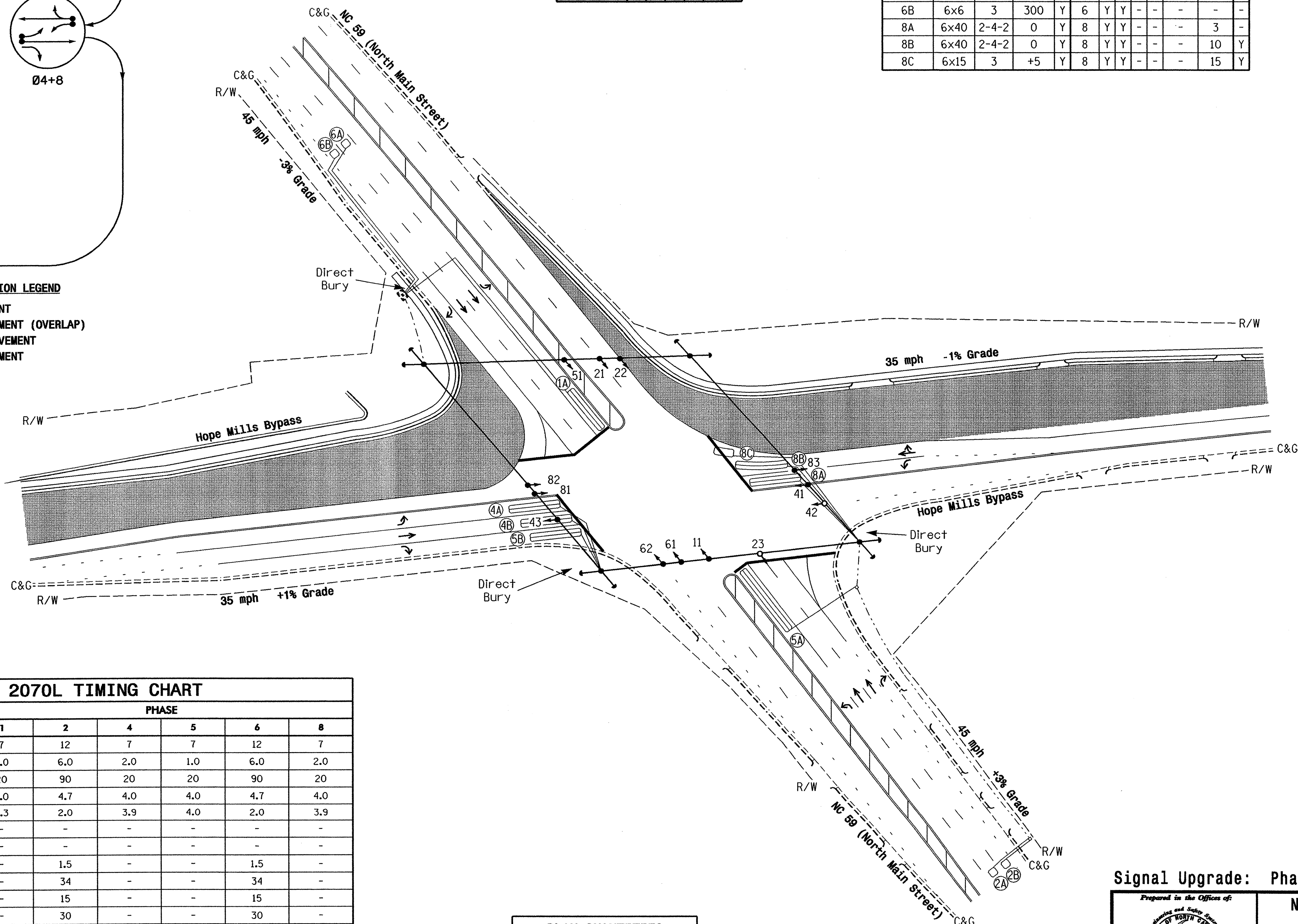
**2070L LOOP & DETECTOR INSTALLATION**

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	6x40	2-4-2	0	Y	1	Y	Y	-	-	-	3	-
2A	6x6	6	300	Y	2	Y	Y	-	-	-	-	-
2B	6x6	6	300	Y	2	Y	Y	-	-	-	-	-
4A	6x40	2-4-2	0	Y	4	Y	Y	-	-	-	3	-
4B	6x40	2-4-2	0	Y	4	Y	Y	-	-	-	-	Y
5A	6x60	2-4-2	0	Y	5	Y	Y	-	-	-	3	-
5B	6x40	2-4-2	0	Y	5	Y	Y	-	-	1	15	Y
6A	6x6	3	300	Y	6	Y	Y	-	-	-	-	-
6B	6x6	3	300	Y	6	Y	Y	-	-	-	-	-
8A	6x40	2-4-2	0	Y	8	Y	Y	-	-	-	3	-
8B	6x40	2-4-2	0	Y	8	Y	Y	-	-	-	10	Y
8C	6x15	3	+5	Y	8	Y	Y	-	-	-	15	Y

**5 Phase Fully Actuated (NC 59 Closed Loop Signal System)**

**NOTES**

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Reposition all existing signal heads.
3. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
4. During coordination, phase 1 or phase 5 may be lagged.
5. Set all detector units to presence mode.
6. Closed loop system data: Controller Asset #0610.



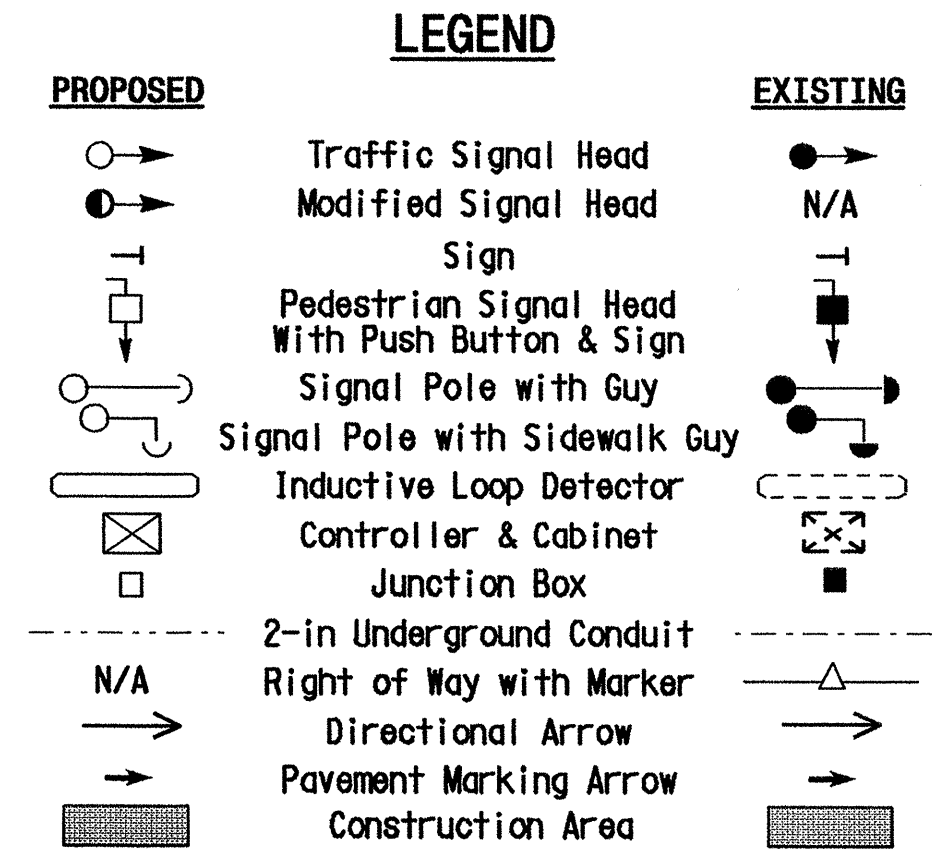
**2070L TIMING CHART**

FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	2.0	6.0	2.0	1.0	6.0	2.0
Max Green 1 *	20	90	20	20	90	20
Yellow Clearance	4.0	4.7	4.0	4.0	4.7	4.0
Red Clearance	4.3	2.0	3.9	4.0	2.0	3.9
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	1.5	-	-	1.5	-
Max Variable Initial *	-	34	-	-	34	-
Time Before Reduction *	-	15	-	-	15	-
Time To Reduce *	-	30	-	-	30	-
Minimum Gap	-	3.0	-	-	3.0	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	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.

**PLAN QUANTITIES**

Pay Item	Feet
Signal Cable	910
Messenger Cable	0
Lead-in Cable	2400



**Signal Upgrade: Phase III Temporary Design 2**

	<b>NC 59 (North Main Street) at Hope Mills Bypass</b>		SEAL
	Division 6 Cumberland County Hope Mills		
	PLAN DATE: May 2003	REVIEWED BY: L.A. Elliott	
PREPARED BY: P.J. Porter	REVIEWED BY: STF/JPG	REVISIONS	INIT. DATE
SIG. INVENTORY NO. 06-0610T2		DATE: 10/22/03	

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