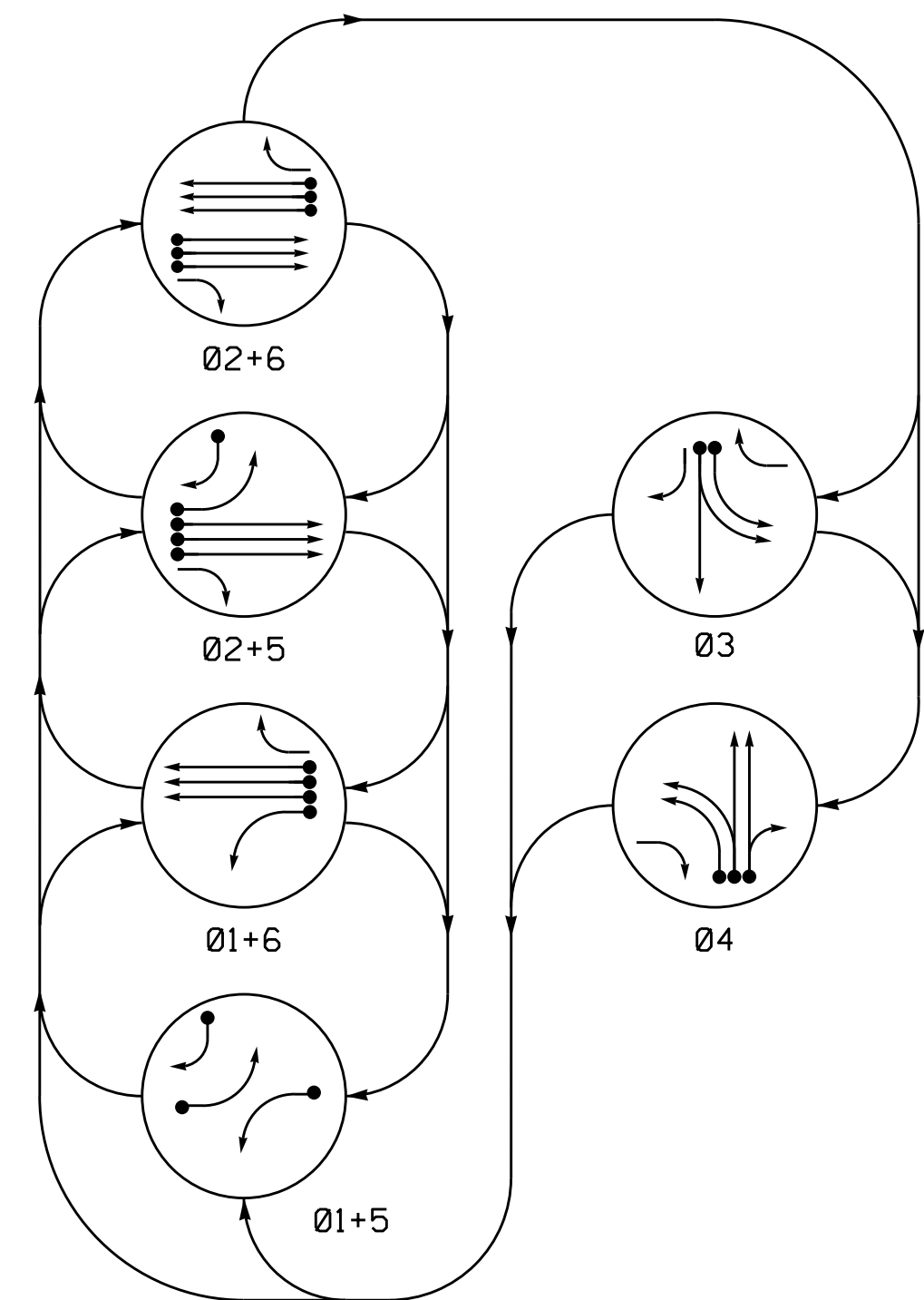


PHASING DIAGRAM

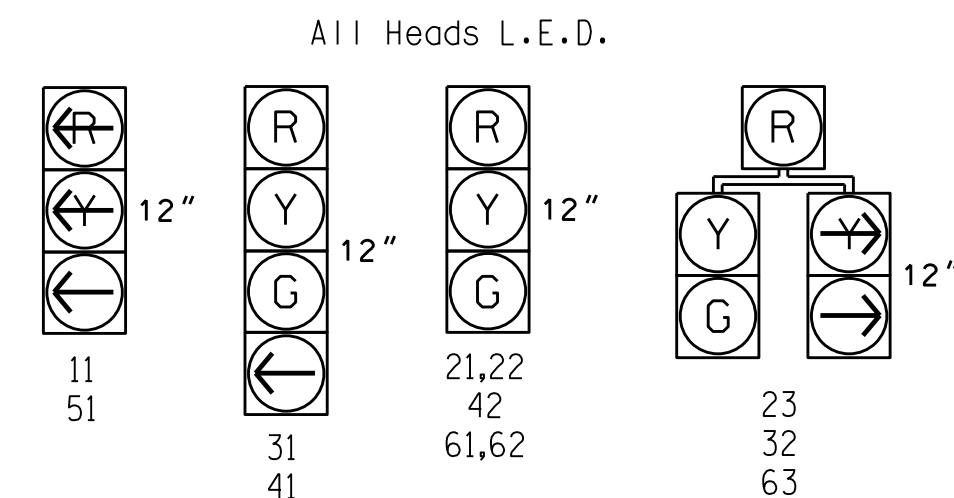


PHASING DIAGRAM DETECTION LEGEND

- ← ● → DETECTED MOVEMENT
- ← ○ → UNDETECTED MOVEMENT (OVERLAP)
- ← - - - → UNSIGNALIZED MOVEMENT
- ← - - - → PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE											
	01+5	01+6	02+5	02+6	03	04	03	04	03	04	03	04
11	-	-	-	-	-	-	-	-	-	-	-	-
21, 22	R	R	G	G	R	R	R	R	Y			
23	R	R	G	G	R	R	R	R	Y			
31	R	R	R	R	G	R	R	R	R			
32	R	R	R	R	G	R	R	R	R			
41	R	R	R	R	R	G	R	R	R			
42	R	R	R	R	R	G	R	R	R			
51	-	-	-	-	-	-	-	-	-	-	-	-
61, 62	R	G	R	G	R	R	R	R	Y			
63	R	G	R	G	R	R	R	R	Y			

SIGNAL FACE I.D.



OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
					PHASE	CALLING	EXTENSION	FULL TIME DELAY				
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	-	-	-
2A	6X6	300	6	Y	2	Y	Y	-	-	-	-	-
2B	6X6	300	6	Y	2	Y	Y	-	-	-	-	-
2C	6X6	300	6	Y	2	Y	Y	-	-	-	-	Y
3A	6X40	0	2-4-2	Y	3	Y	Y	-	-	-	-	-
3B	6X40	0	2-4-2	Y	3	Y	Y	-	-	-	-	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	3	-	-
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	-	-
4C	6X40	0	2-4-2	Y	4	Y	Y	-	-	-	10	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	-	-	-
5B	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	-	-
6A	6X6	300	4	Y	6	Y	Y	-	-	-	-	-
6B	6X6	300	4	Y	6	Y	Y	-	-	-	-	-
6C	6X6	300	4	Y	6	Y	Y	-	-	-	-	Y
S1	6X6	+270	5	Y	-	-	-	-	-	-	Y	-
S2	6X6	+270	5	Y	-	-	-	-	-	-	Y	-
S3	6X6	+270	5	Y	-	-	-	-	-	-	Y	-
S4	6X6	300	6	Y	-	-	-	-	-	-	Y	-
S5	6X6	300	6	Y	-	-	-	-	-	-	Y	-

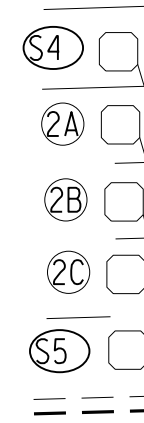
6 Phase Fully Actuated Wilmington Signal System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 and/or phase 5 may be lagged.
- The order of phase 3 and phase 4 may be reversed.
- Set all detector units to presence mode.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Signal system data: Controller Asset # 0561.

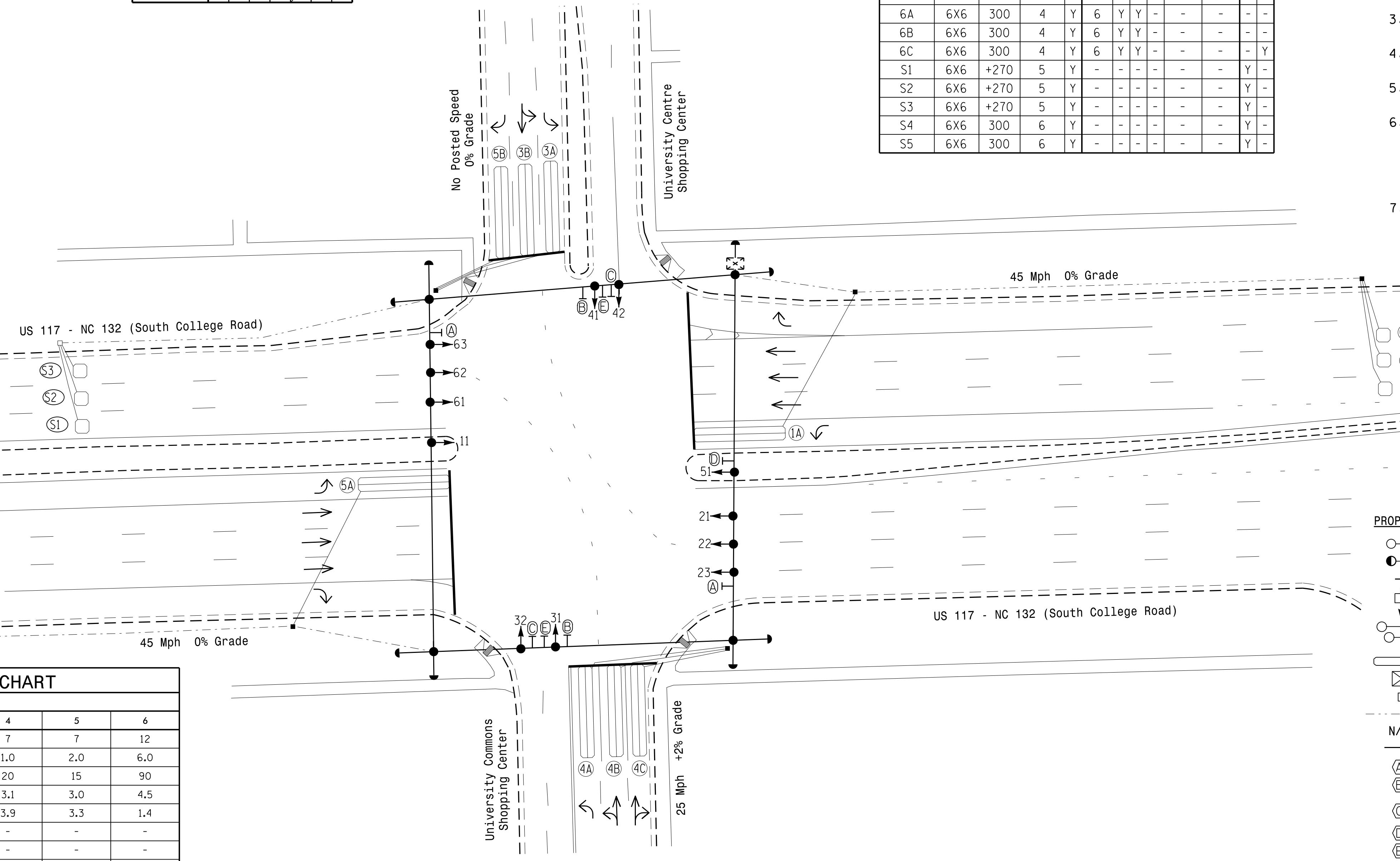
PHASING DIAGRAM DETECTION LEGEND

- ← ● → DETECTED MOVEMENT
- ← ○ → UNDETECTED MOVEMENT (OVERLAP)
- ← - - - → UNSIGNALIZED MOVEMENT
- ← - - - → PEDESTRIAN MOVEMENT



FEATURE	PHASE					
	1	2	3	4	5	6
Min Green 1 *	7	12	7	7	7	12
Extension 1 *	2.0	6.0	1.0	1.0	2.0	6.0
Max Green 1 *	15	90	20	20	15	90
Yellow Clearance	3.0	4.5	3.2	3.1	3.0	4.5
Red Clearance	3.3	1.4	3.7	3.9	3.3	1.4
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	1.2	-	-	-	1.2
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	-	-	-	-	-	-
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.



LEGEND

- | PROPOSED | EXISTING |
|--|----------|
| ○ → Traffic Signal Head | ● → N/A |
| ○ → Modified Signal Head | ○ → 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 |
| ○ → 2-in Underground Conduit | ○ → N/A |
| ○ → Right of Way | ○ → N/A |
| ○ → Directional Arrow | ○ → N/A |
| ○ → Right Arrow "ONLY" Sign (R3-5R) | ○ → N/A |
| ○ → Left Arrow "ONLY" Sign (R3-5L) | ○ → N/A |
| ○ → Combined Through and Left Arrow Sign (R3-6L) | ○ → N/A |
| ○ → U-Turn "MUST YIELD" Sign (R3-27) | ○ → N/A |
| ○ → Street Sign | ○ → N/A |

Signal Upgrade

US 117 - NC 132 (S College Rd) at University Centre / University Commons

Division 3 New Hanover County Wilmington

PLAN DATE: September 2015 PREPARED BY: Jeff Spence REVIEWED BY: PLA

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1"=30'

SEAL

STATE OF NORTH CAROLINA

PROFESSIONAL ENGINEER

ALEXANDER

023489

10/15/15

SIG. INVENTORY NO. 03-0561

13-APR-2016 11:50 S:\MT\ASU\15_S\Signal\Signal Design_Sect\on\Eastern_Region\03-0561\030561_Sig.dsn_20160404.dgn
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