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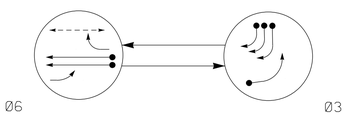
PROJECT REFERENCE NO.	SHEET NO.
W-5520	Sig.11.0

2 Phase
Fully Actuated
US 74 - Indian Trail CLS #1

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM

PHASING DIAGRAM DETECTION LEGEND

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

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE Ø6	PHASE Ø3	PHASE FLASH
31	F Y	→	Y
32,33,34	R	→	R
61,62	G	R	Y
P61,P62	W	DW	DRK

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE Ø6	PHASE Ø3	PHASE FLASH
31	R	→	Y
32,33,34	R	→	R
61,62	G	R	Y
P61,P62	W	DW	DRK

SIGNAL FACE I.D.

All Heads L.E.D.

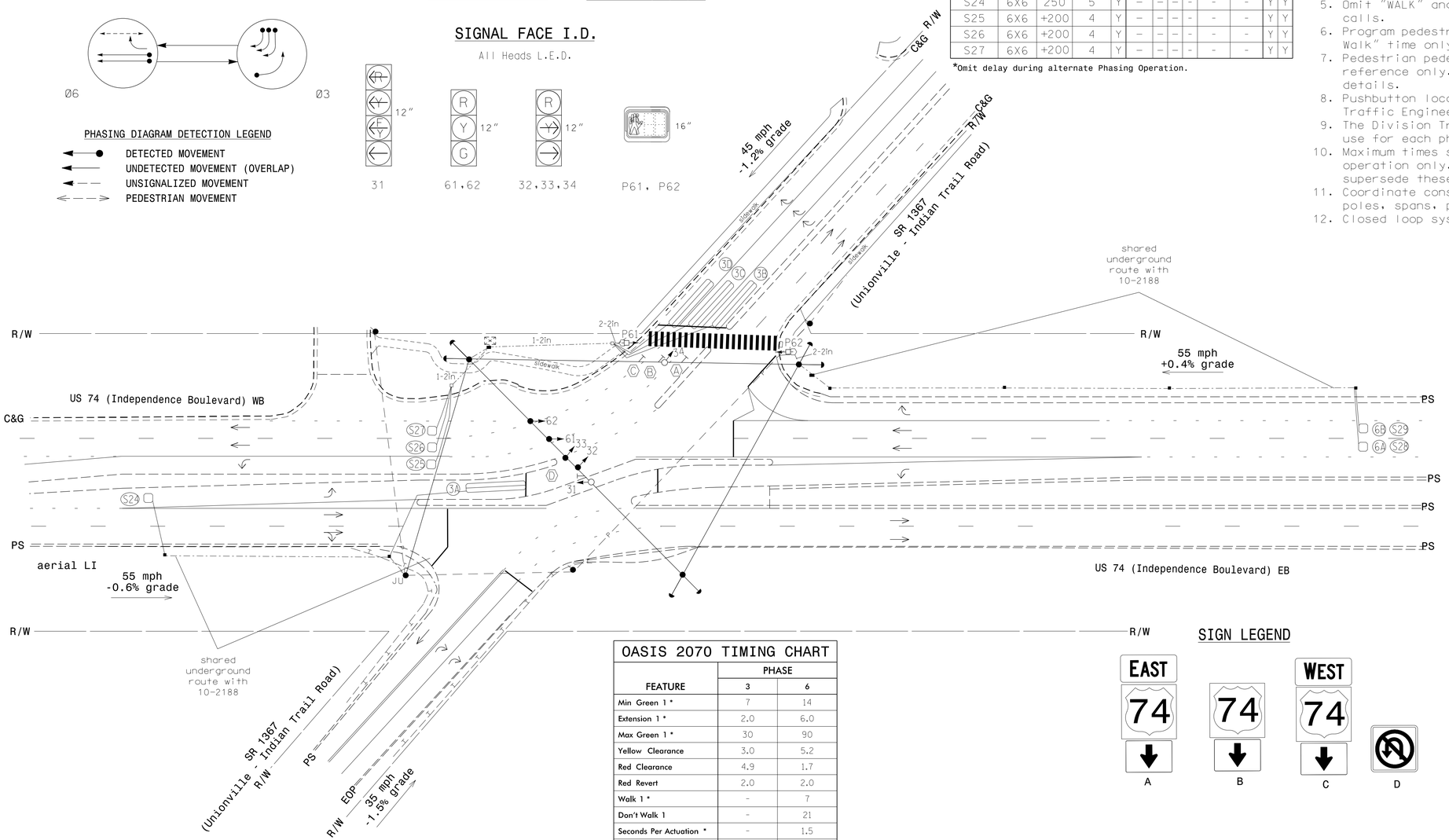
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

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
3A	6X40	0	2-4-2	Y	3	Y	Y	-	-	15*	-	-
3B	6X40	0	2-4-2	Y	3	Y	Y	-	-	10	-	-
3C	6X40	0	2-4-2	Y	3	Y	Y	-	-	10	-	Y
3D	6X40	0	2-4-2	Y	3	Y	Y	-	-	10	-	Y
6A/S28	6X6	420	6	Y	6	Y	Y	-	-	-	Y	-
6B/S29	6X6	420	6	Y	6	Y	Y	-	-	-	Y	-
S24	6X6	250	5	Y	–	–	–	-	-	-	Y	Y
S25	6X6	+200	4	Y	–	–	–	-	-	-	Y	Y
S26	6X6	+200	4	Y	–	–	–	-	-	-	Y	Y
S27	6X6	+200	4	Y	–	–	–	-	-	-	Y	Y

*Omit delay during alternate Phasing Operation.

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. Reposition existing signal heads numbered 32 & 33.
4. Set all detector units to presence mode.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
8. Pushbutton locations shall be located by the Division Traffic Engineer.
9. The Division Traffic Engineer will determine the hours of use for each phasing plan.
10. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
11. Coordinate construction with signal 10-2188 - shared poles, spans, pullboxes and conduit runs.
12. Closed loop system data: Controller Asset #2187.



OASIS 2070 TIMING CHART

FEATURE	PHASE 3	PHASE 6
Min Green 1 *	7	14
Extension 1 *	2.0	6.0
Max Green 1 *	30	90
Yellow Clearance	3.0	5.2
Red Clearance	4.9	1.7
Red Revert	2.0	2.0
Walk 1 *	-	7
Don't Walk 1	-	21
Seconds Per Actuation *	-	1.5
Max Variable Initial *	-	46
Time Before Reduction *	-	15
Time To Reduce *	-	30
Minimum Gap	-	3.4
Recall Mode	-	MIN RECALL
Vehicle Call Memory	-	YELLOW
Dual Entry	-	-
Simultaneous Gap	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phase 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

SIGN LEGEND

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head With Push Button & Sign	
	Type II Signal Pedestal	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
	Oversized Junction Box	
	2-in Underground Conduit	
DD	Directional Drill	N/A
N/A	Right of Way	
P	Overhead Power Line	P
	Directional Arrow	
A	See Sign Legend	A

Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:

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Prepared for the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N.Greenfield Pkwy,Garner,NC 27529

US 74 (Independence Blvd) WB
at
SR 1367 (Unionville-Indian Trail Road)

Division 10 Union County Indian Trail

PLAN DATE:	June 2015	REVIEWED BY:	L. Moon
PREPARED BY:	K. Smith	REVIEWED BY:	J. Highland

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON
Lisa M. Moon 11/11/2016
DATE
SIG. INVENTORY NO. 10-2187

11-NOV-2016 13:00
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lmoon AT CAR-LMOON1-W7