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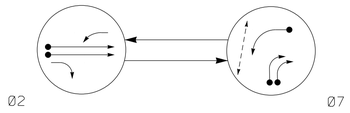
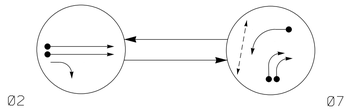
PROJECT REFERENCE NO.	SHEET NO.
W-5520	Sig.25.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

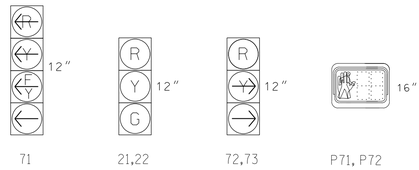
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

DEFAULT PHASING TABLE OF OPERATION			
SIGNAL FACE	PHASE Ø2	PHASE Ø7	FLASH
21,22	G	R	Y
71	~~Y~~	←	~~Y~~
72,73	R	→	R
P71,P72	DW	W	DRK

ALTERNATE PHASING TABLE OF OPERATION			
SIGNAL FACE	PHASE Ø2	PHASE Ø7	FLASH
21,22	G	R	Y
71	~~R~~	←	~~Y~~
72,73	R	→	R
P71,P72	DW	W	DRK

SIGNAL FACE I.D.

All Heads L.E.D.



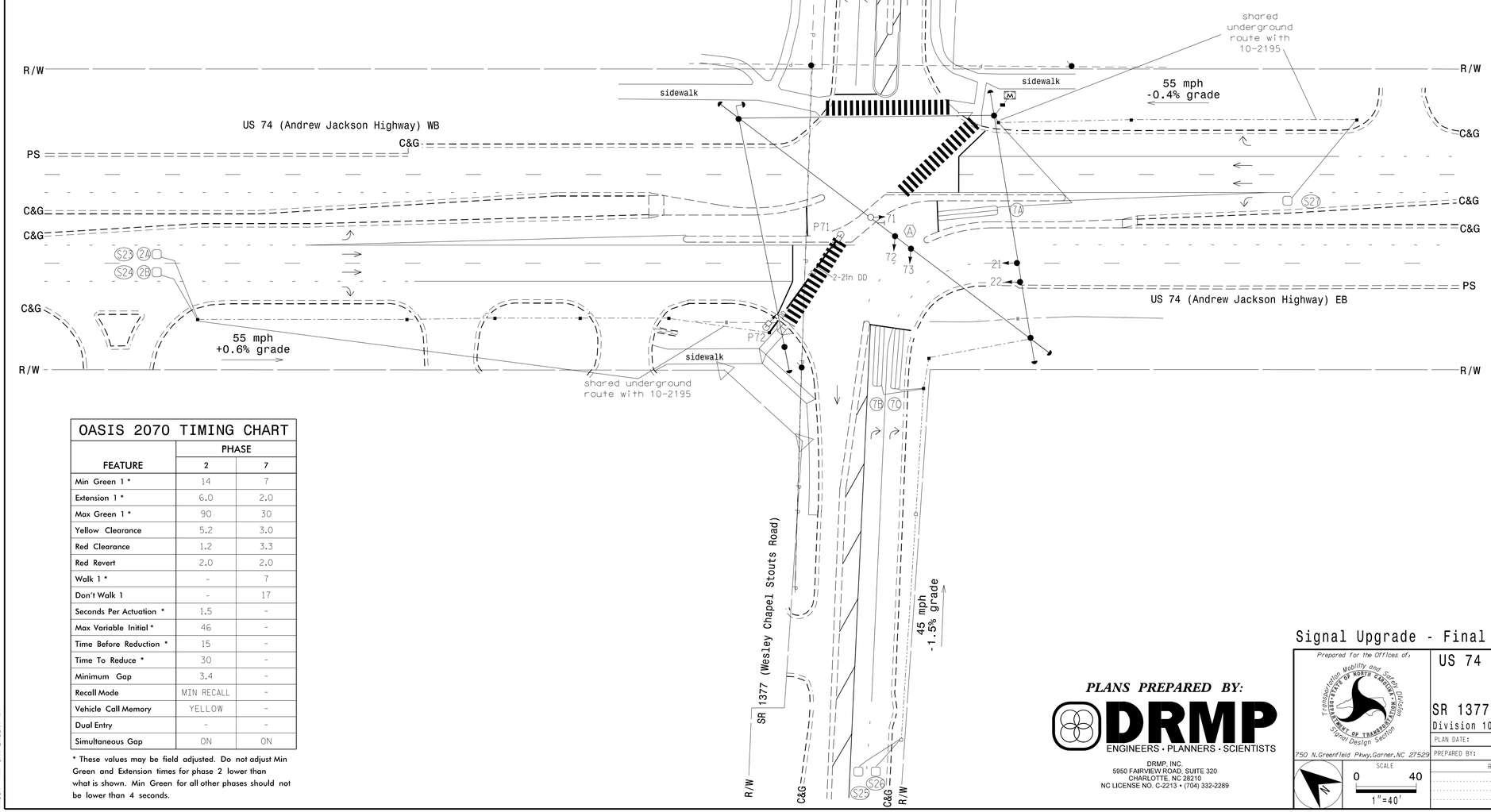
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A/S23	6X6	420	6	Y	2	Y	Y	-	-	-	Y	–
2B/S24	6X6	420	6	Y	2	Y	Y	-	-	-	Y	–
7A	6X40	0	2-4-2	Y	7	Y	Y	-	-	15*	-	–
7B	6X40	0	2-4-2	Y	7	Y	Y	-	-	10	-	–
7C	6X40	0	2-4-2	Y	7	Y	Y	-	-	10	-	Y
S25	6X6	300	5	Y	–	–	–	–	-	-	Y	Y
S26	6X6	300	5	Y	–	–	–	–	-	-	Y	Y
S27	6X6	230	5	Y	–	–	–	–	-	-	Y	Y

*Omit delay during Alternate Phasing Operation.

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

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 #72 & 73.
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. Coordinate construction with signal 10-2196T1 & 10-2196 - shared junction boxes, poles, spans and conduit systems.
11. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
12. Closed loop system data: Controller Asset #2196.



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	⊠
Ⓜ	Master Controller & Cabinet	Ⓜ
□	Junction Box	■
▭	Oversized Junction Box	■
·-·-·	2-in Underground Conduit	·-·-·
—DD—	Directional Drill	N/A
N/A	Right of Way	
-W-	Underground Water Line	-W-
-P-	Underground Power Line	-P-
→	Directional Arrow	→
Ⓐ	No U-Turn Sign (R3-4)	Ⓐ

OASIS 2070 TIMING CHART		
FEATURE	PHASE 2	PHASE 7
Min Green 1 *	14	7
Extension 1 *	6.0	2.0
Max Green 1 *	90	30
Yellow Clearance	5.2	3.0
Red Clearance	1.2	3.3
Red Revert	2.0	2.0
Walk 1 *	-	7
Don't Walk 1	-	17
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 2 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

Signal Upgrade - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:

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

SCALE 0 40 1"=40'

US 74 (Andrew Jackson Highway) Eastbound
at
SR 1377 (Wesley Chapel Stouts Rd)
Division 10 Union County Indian Trail

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

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

Lisa M. Moon 8/30/2016
DATE

SIG. INVENTORY NO. 10-2196

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lmoon AT CAR-LMOON1-W7