PROJECT REFERENCE NO. SHEET NO. W-5520 Sig.13.0

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

## 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.
- 4. Set all detector units to presence mode.
- 5. The Division Traffic Engineer will determine the hours of use for each phasing plan.
- 6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values

**LEGEND** 

Traffic Signal Head

Modified Signal Head

Sign Pedestrian Signal Head

With Push Button & Sign Signal Pole with Guy Signal Pole with Sidewalk Guy

Inductive Loop Detector

Controller & Cabinet Junction Box

Oversized Junction Box

2-in Underground Conduit Directional Drill

> Right of Way Power Line

Directional Arrow

No U-Turn Sign (R3-4)

**DOCUMENT NOT CONSIDERED FINAL** 

**UNLESS ALL SIGNATURES COMPLETED** 

supersede these values. 7. Coordinate construction with signal 10-2187 - shared

poles, spans, pullboxes and conduit runs. 8. Closed loop system data: Controller Asset #2188.

SIZE FROM STOPBAR 2A/S30 6X6 420 6 2B/S31 6X6 420 6 7A | 6X40 | 0 | 2-4-2 | 7B | 6X40 | 0 | 2-4-2 | 7C 6X40 0 2-4-2 S32 6X6 150 5 S33 | 6X6 | 150 | 5

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS

S34 | 6X6 | 470 | 5 | Y

\*Omit delay during Alternate Phasing Operation.

DETECTOR PROGRAMMING

72,73 R → F

ALTERNATE PHASING

TABLE OF OPERATION

SIGNAL

FACE

21,22

PHASE

## SIGNAL FACE I.D.

DEFAULT PHASING

TABLE OF OPERATION

SIGNAL

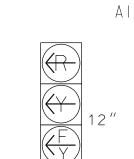
FACE

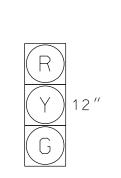
21,22

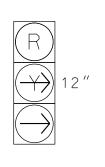
72,73

PHASE

All Heads L.E.D.







72,73 21,22

UNSIGNALIZED MOVEMENT  $\ll$  - > PEDESTRIAN MOVEMENT

PHASING DIAGRAM DETECTION LEGEND

UNDETECTED MOVEMENT (OVERLAP)

55 mph

-0.6% grade

DETECTED MOVEMENT

DEFAULT PHASING DIAGRAM

ALTERNATE PHASING DIAGRAM

Ø2

 $C&G = = \Rightarrow$ 

R/W-

71

shared underground route with 10-2187 55 mph +0.4% grade US 74 (Independence Boulevard) WB US 74 (Independence Boulevard) EB C&G=>

OASIS 2070	TIMING	CHART
	PHASE	
FEATURE	2	7
Min Green 1 *	14	7
Extension 1 *	6.0	2.0
Max Green 1 *	90	30
Yellow Clearance	5.3	3.0
Red Clearance	1.5	4.0
Red Revert	2.0	2.0
Walk 1 *	-	-
Don't Walk 1	-	-
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	-

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.

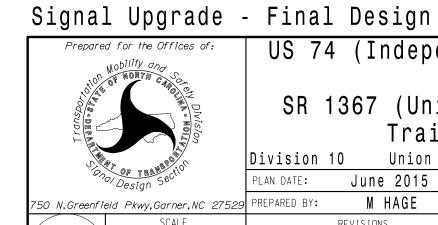
Dual Entry

Simultaneous Gap



PLANS PREPARED BY:

DRMP, INC. 5950 FAIRVIEW ROAD, SUITE 320 CHARLOTTE, NC 28210 NC LICENSE NO. C-2213 • (704) 332-2289



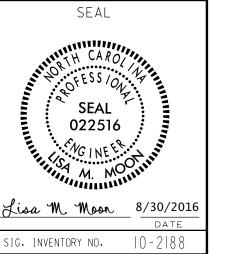
1"=40'

US 74 (Independence Blvd) EB SR 1367 (Unionville-Indian

<u>PROPOSED</u>

 $\bigcirc$ 

Trail Road) Indian Trail Division 10 Union County June 2015 REVIEWED BY: L Moon M HAGE REVIEWED BY: J Highland



**EXISTING** 

**●**→

N/A

N/A

- — P — — -

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