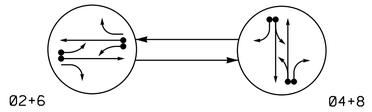
PROJECT REFERENCE NO.	SHEET NO.
R-3100 B	Sig.4.0

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

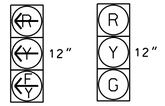
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

TABLE OF OPERATION

SIGNAL FACE	PHASE 02+6	PHASE 04+8	FLASH
21	~~FY~~	~~R~~	~~Y~~
22, 23	G	R	Y
41,42,43	R	G	R
61	~~FY~~	~~R~~	~~Y~~
62, 63	G	R	Y
81,82,83	R	G	R

SIGNAL FACE I.D.

All Heads L.E.D.



21
61

22, 23
41, 42, 43
62, 63
81, 82, 83

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

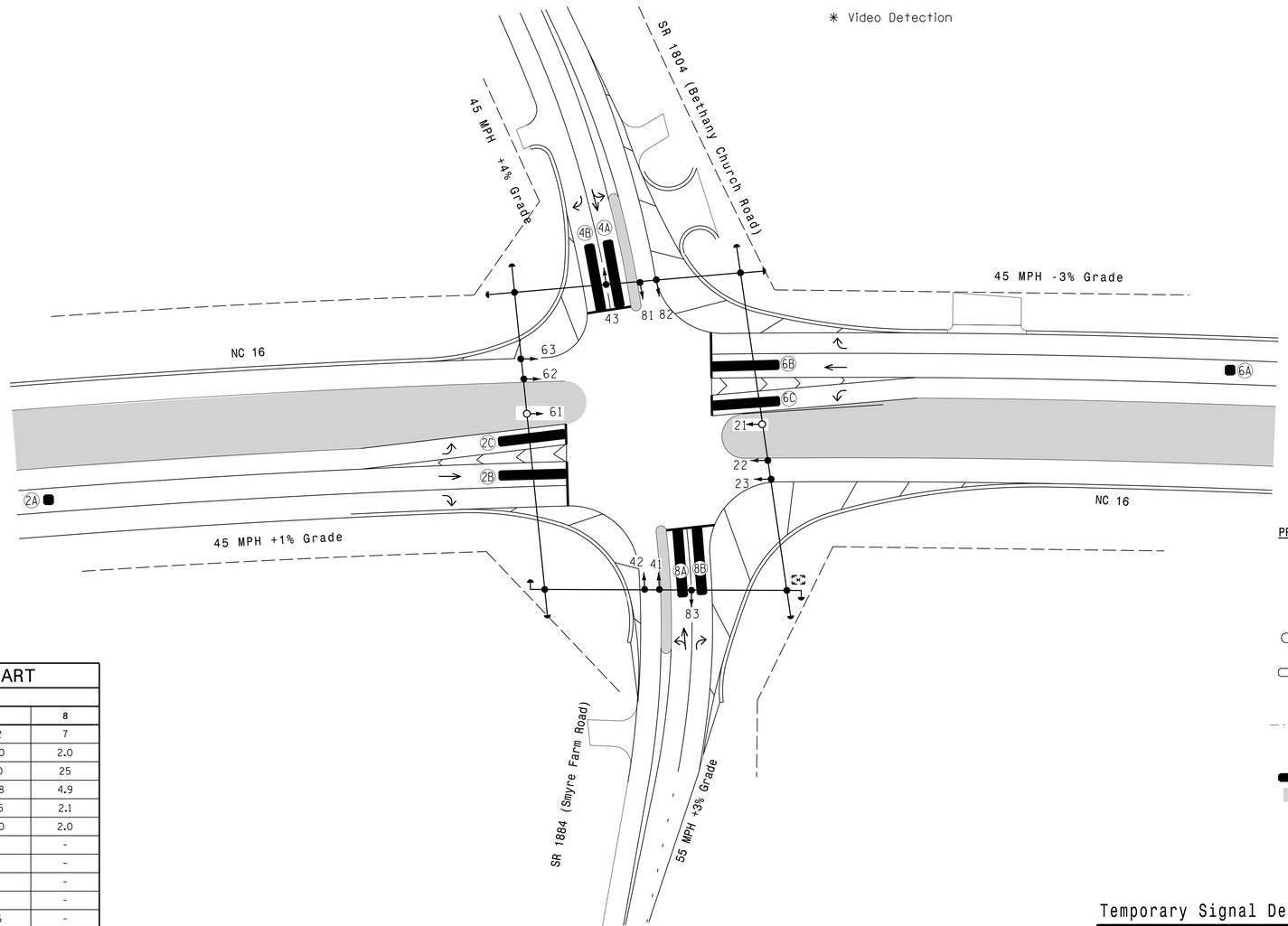
INDUCTIVE LOOPS					DETECTOR PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	300	✳	-	2	Y	Y	-	-	-	-	✳
2B	6X40	0	✳	-	2	Y	Y	Y	2	5	-	✳
2C	6X40	0	✳	-	2	Y	Y	Y	-	3	-	✳
4A	6X40	0	✳	-	4	Y	Y	-	-	-	-	✳
4B	6X40	0	✳	-	4	Y	Y	-	-	15	-	✳
6A	6X6	300	✳	-	6	Y	Y	-	-	-	-	✳
6B	6X40	0	✳	-	6	Y	Y	Y	2	5	-	✳
6C	6X40	0	✳	-	6	Y	Y	Y	-	3	-	✳
8A	6X40	0	✳	-	8	Y	Y	-	-	-	-	✳
8B	6X40	0	✳	-	8	Y	Y	-	-	15	-	✳

✳ Video Detection

2 Phase
Fully Actuated
Isolated

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 all signal heads as shown.
4. Adjust all Video Detection Zones as shown.
5. Set all detector units to presence mode.
6. Incorporate Loop Emulator Detection System for vehicle detection.



LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
□	Pedestrian Signal Head With Push Button & Sign	■
○	Signal Pole with Guy	●
○	Signal Pole with Sidewalk Guy	●
▭	Inductive Loop Detector	▭
⊠	Controller & Cabinet	⊠
□	Junction Box	■
·-·-·	2-in Underground Conduit	·-·-·
N/A	Right of Way	– – –
→	Directional Arrow	→
▬	Video Detection Zone	▬
▬	Construction Zone	▬

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 8
Min Green 1 *	12	7	12	7
Extension 1 *	6.0	2.0	6.0	2.0
Max Green 1 *	90	25	90	25
Yellow Clearance	4.8	4.9	4.8	4.9
Red Clearance	1.5	2.1	1.5	2.1
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	-	-	-	-
Max Variable Initial *	-	-	-	-
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

* 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.

Temporary Signal Design-3 (TCP Phase-III)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

NC 16
at
SR 1804 (Bethany Church Road)
/ SR 1884 (Smyre Farm Road)
Division 12 Catawba County Conover

PLAN DATE: August 2016 REVIEWED BY: T. Williams
PREPARED BY: M. Mahbooba REVIEWED BY:

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 024393 ENGINEER TIMOTHY J. WILLIAMS

DocuSigned by: T. J. Williams 10/14/2016
97AD7926E9D34CA DATE

SIG. INVENTORY NO. 12-1188 T3

14-OCT-2016 10:04
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