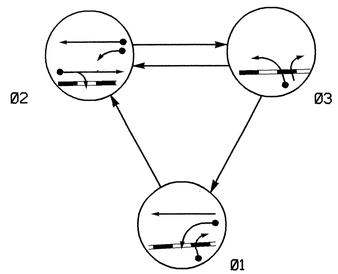
PROJECT REFERENCE NO.	SHEET NO.
R-2417BB	Sig. 6

PHASING DIAGRAM



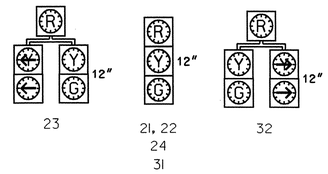
PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION				
SIGNAL FACE	PHASE Ø1	Ø2	Ø3	FLASH
21, 22	R	G	R	Y
23	G	G	R	Y
24	G	G	R	Y
31	R	R	G	R
32	R	R	G	R

SIGNAL FACE I.D.

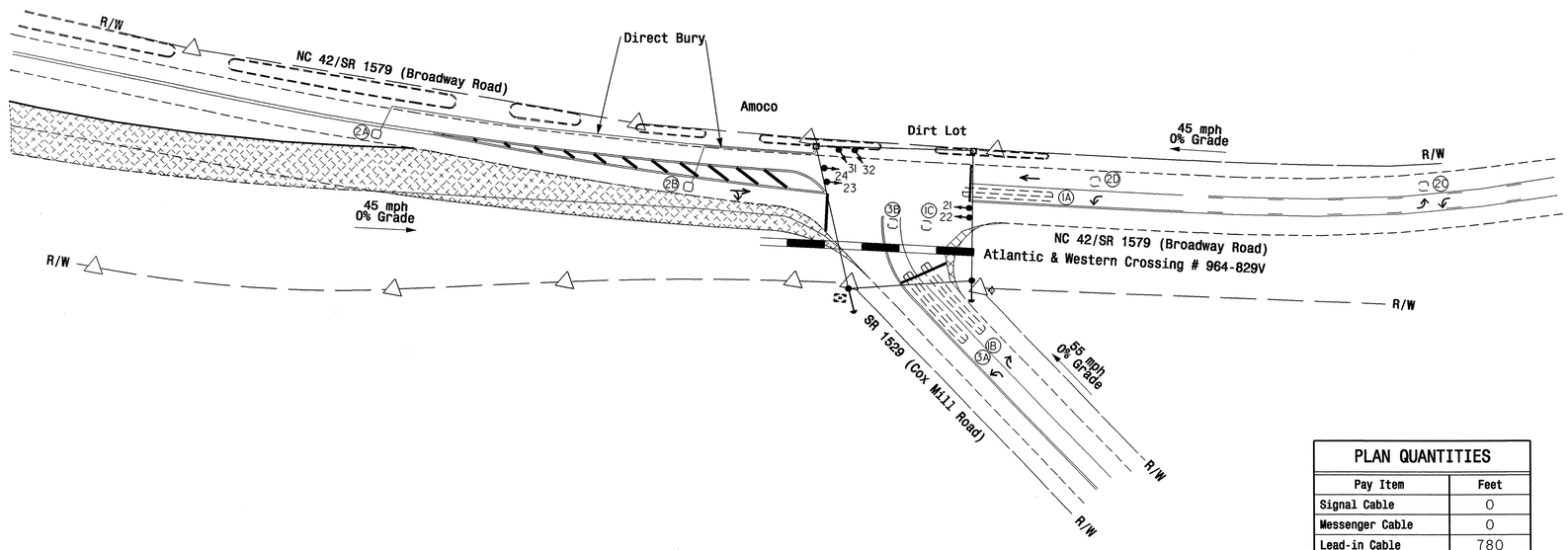
Denotes L.E.D.



3 Phase
Fully Actuated
(Isolated)

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Pavement markings are existing on east leg of NC 42 (Broadway Road) and SR 1529 (Cox Mill Road).
4. Omit phase 1 during phase 2 on.
5. Program controller to clear from phase 2 to phase 1 by progressing through phase 3 (see Electrical Details).
6. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
7. Set all detector units to presence mode.
8. Railroad has been abandoned. Remove existing "STOP HERE ON RED" and "DO NOT STOP ON TRACKS" signs.



PLAN QUANTITIES	
Pay Item	Feet
Signal Cable	0
Messenger Cable	0
Lead-in Cable	780

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	
	Pavement Marking Arrow	
	Metal Strain Pole	
N/A	Fire Hydrant	
	Construction Zone	

TIMING CHART
NEMA CONTROLLER

PHASE	Ø1	Ø2	Ø3
MINIMUM GREEN	7 SEC.	12 SEC.	7 SEC.
PASSAGE/GAP	1 SEC.	2 SEC.	2 SEC.
YELLOW CHANGE INT.	4.5 SEC.	4.7 SEC.	4.0 SEC.
RED CLEARANCE	2.0 SEC.	1.5 SEC.	2.5 SEC.
MAX. 1	20 SEC.	60 SEC.	25 SEC.
RECALL POSITION	NONE	MIN. RECALL	NONE
VEHI. CALL MEMORY	NONLOCK	LOCK	NONLOCK
WALK	– SEC.	– SEC.	– SEC.
FLASHING DON'T WALK	– SEC.	– SEC.	– SEC.

LOOP & DETECTOR UNIT INSTALLATION CHART
NEMA CONTROLLER WITH TS-1 CABINET

INDUCTIVE LOOPS						DETECTOR UNITS								
LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (ft)	NEW	EXISTING	UNIT NO.	NEW	EXISTING	NEMA PHASE	TIMING FEATURE	TIMING TIME	PLACE CALL DURING PHASE	INHIBIT DELAY DURING GREEN†
1A	6X60	2-4-2	+5		X	1		X	1	DELAY	15 SEC.	ALL	YES
						2		X	2	DELAY	3 SEC.	ALL	NO
1B	6X60	2-4-2	+5		X	8		X	1	DELAY	15 SEC.	ALL	YES
1C	6X6	4	+35		X				2	DELAY	15 SEC.	ALL	YES
2A	6X6	4	300	X		3		X	2	EXTEND	1.75 SEC.	ALL	NO
2B	6X6	4	90	X		4		X	2	NONE	– SEC.	ALL	NO
2C	6X6	5	300		X	5		X	2	EXTEND	1.75 SEC.	ALL	NO
2D	6X6	4	90		X	6		X	2	NONE	– SEC.	ALL	NO
3A	6X60	2-4-2	+5		X	7		X	3	DELAY	2 SEC.	ALL	YES
3B	6X6	4	+45		X				3	DELAY	3 SEC.	ALL	YES

PBSJ
1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888

Signal Upgrade - Temporary Design 1

Prepared for the Offices of:
Traffic Engineering and Safety Systems Branch
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signals and Geometrics Section
122 N. McDowell St., Raleigh, NC 27603

NC 42/SR 1579 (Broadway Road) at SR 1529 (Cox Mill Road)

Division 08 Lee County Sanford

PLAN DATE:	June 2004	REVIEWED BY:	MR Cooney
PREPARED BY:	LM Moon	REVIEWED BY:	DL Jones

SCALE 0 50 1"=50'

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER LISA M. MOON

Lisa M. Moon 6.14.04
SIGNATURE DATE

SIG. INVENTORY NO. 08-0649T

14-JUN-2004 17:28
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