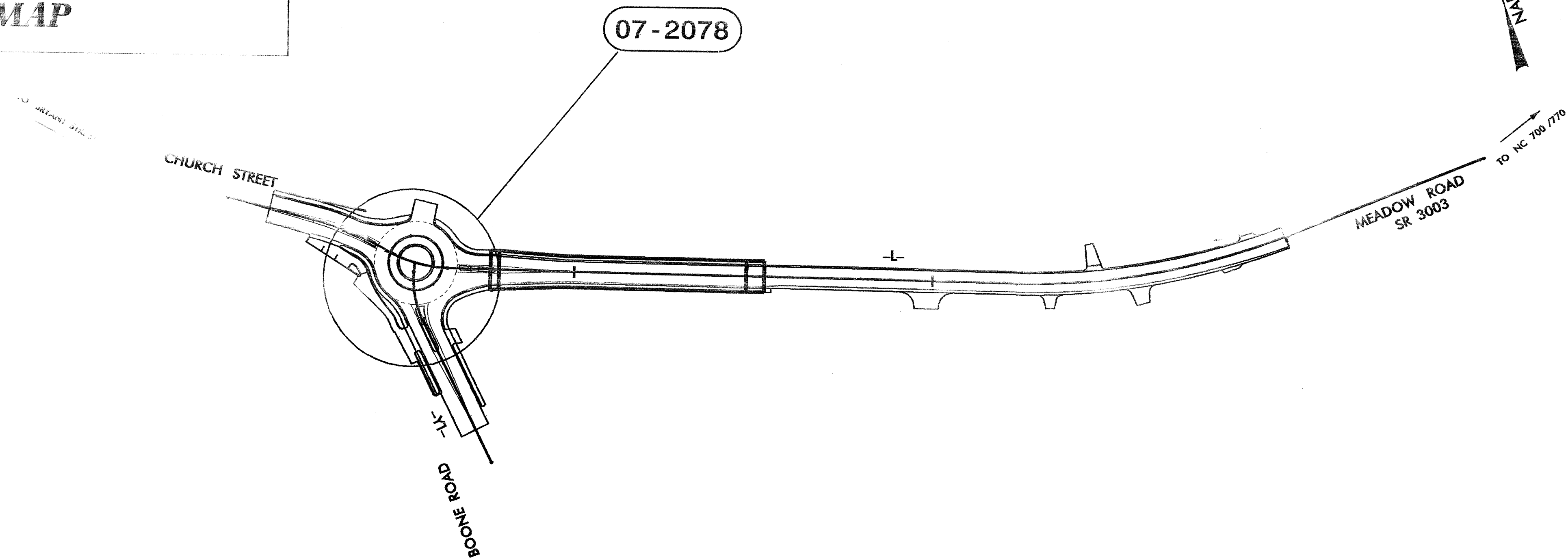
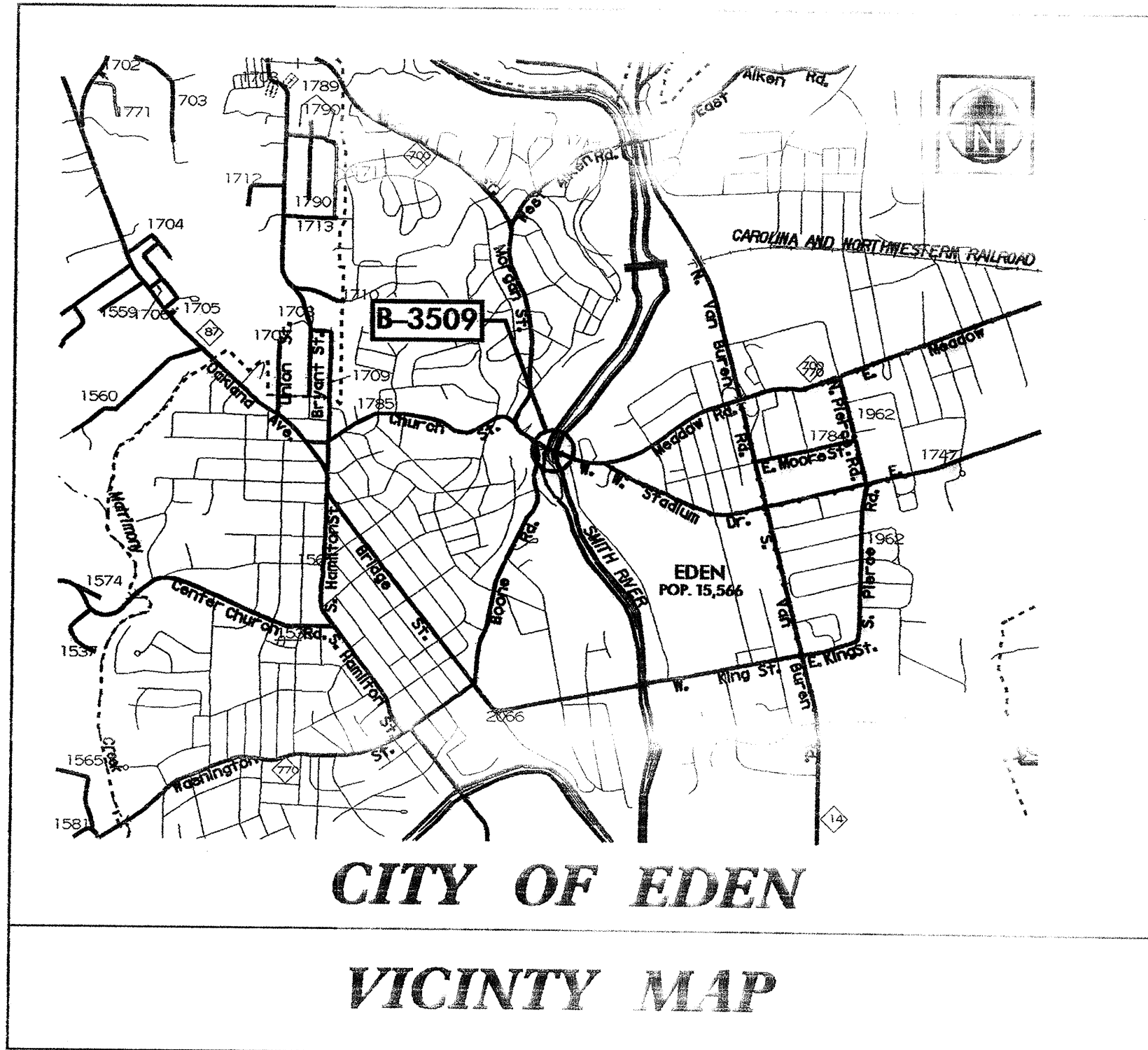


PROJECT: B-3509

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
ROCKINGHAM COUNTY

**Project Description: Bridge No. 75 over Smith River and Approaches
 on SR 3003 (Meadow Road) in Eden**

Type of Work: Temporary Traffic Signal



INDEX OF PLANS

SHEET NUMBER	SIGNAL INVENTORY NUMBER	LOCATION /DESCRIPTION
SIG. 1	—	Title Sheet
SIG. 2	07-2078	Church Street/SR 3003 (Meadow Road) at Boone Road
SIG. 4	—	Cabinet Component Layout Typical

LEGEND

##-#### SIGNAL INVENTORY NUMBER

NCDOT CONTACTS:

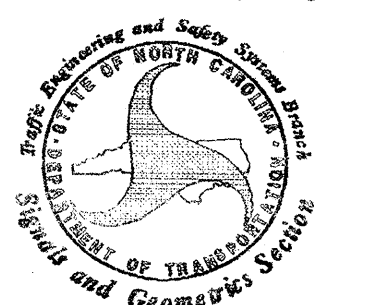
TRAFFIC ENGINEERING AND SAFETY SYSTEMS BRANCH

DOUMIT Y. ISHAK - SIGNALS AND GEOMETRICS CONTRACTS ENGINEER

GEORGE C. BROWN, P.E. - SIGNAL EQUIPMENT DESIGN ENGINEER

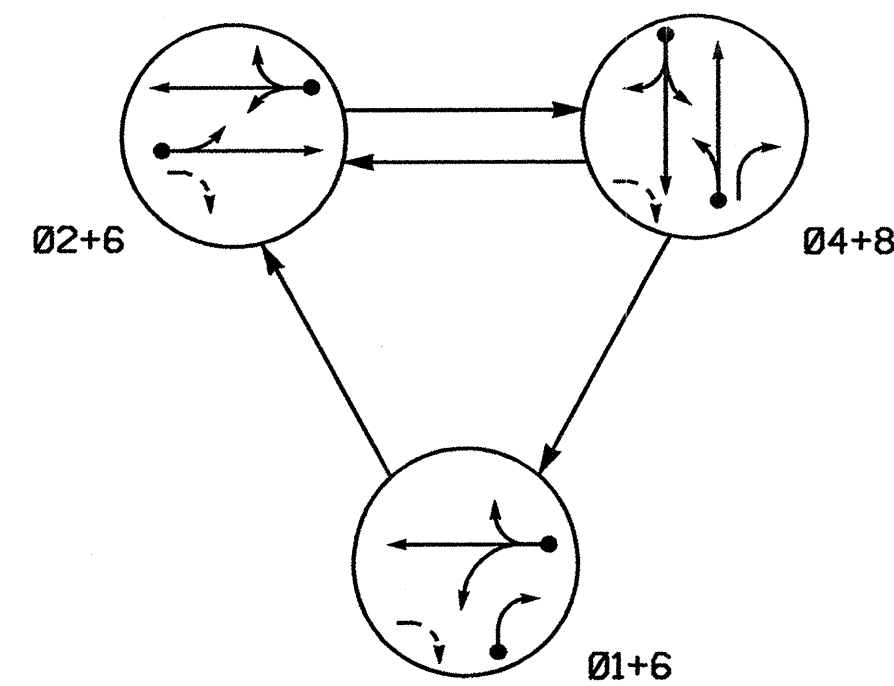
Refer to - Roadway Standard Drawings
 NCDOT dated January 2002 and
 Standard Specifications for Roads
 and Structures dated January 2002.

Prepared in the Offices of:



122 N. McDowell St., Raleigh, NC 27603

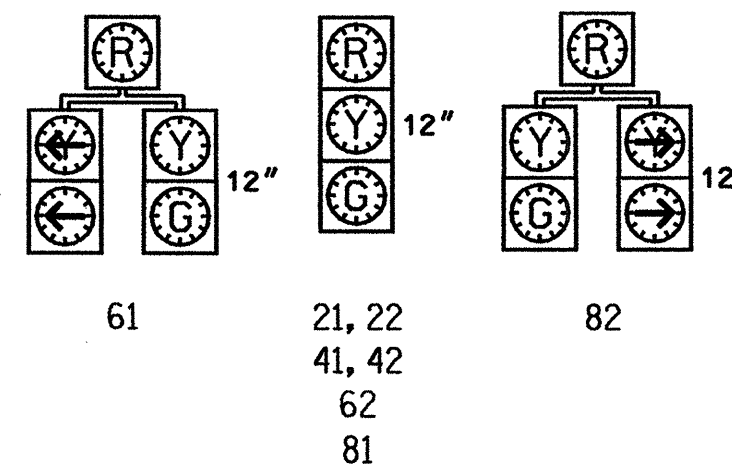
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	Ø 1+6	Ø 2+6	Ø 4+8	FLASH
21, 22	R	G	R	Y
41, 42	R	R	G	R
61		G	R	Y
62	G	G	R	Y
81	R	R	G	R
82	R	R	G	R

SIGNAL FACE I.D.

Denotes L.E.D.



2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING							
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	15	-	Y
1B	6X40	0	2-4-2	Y	1	Y	Y	-	-	15	-	Y
1C	6X6	0	4	Y	1	Y	Y	-	-	15	-	Y
2A	6X6	70	4	Y	2	Y	Y	-	-	-	-	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	5	-	Y
6A	6X6	70	4	Y	6	Y	Y	-	-	-	-	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	3	-	Y

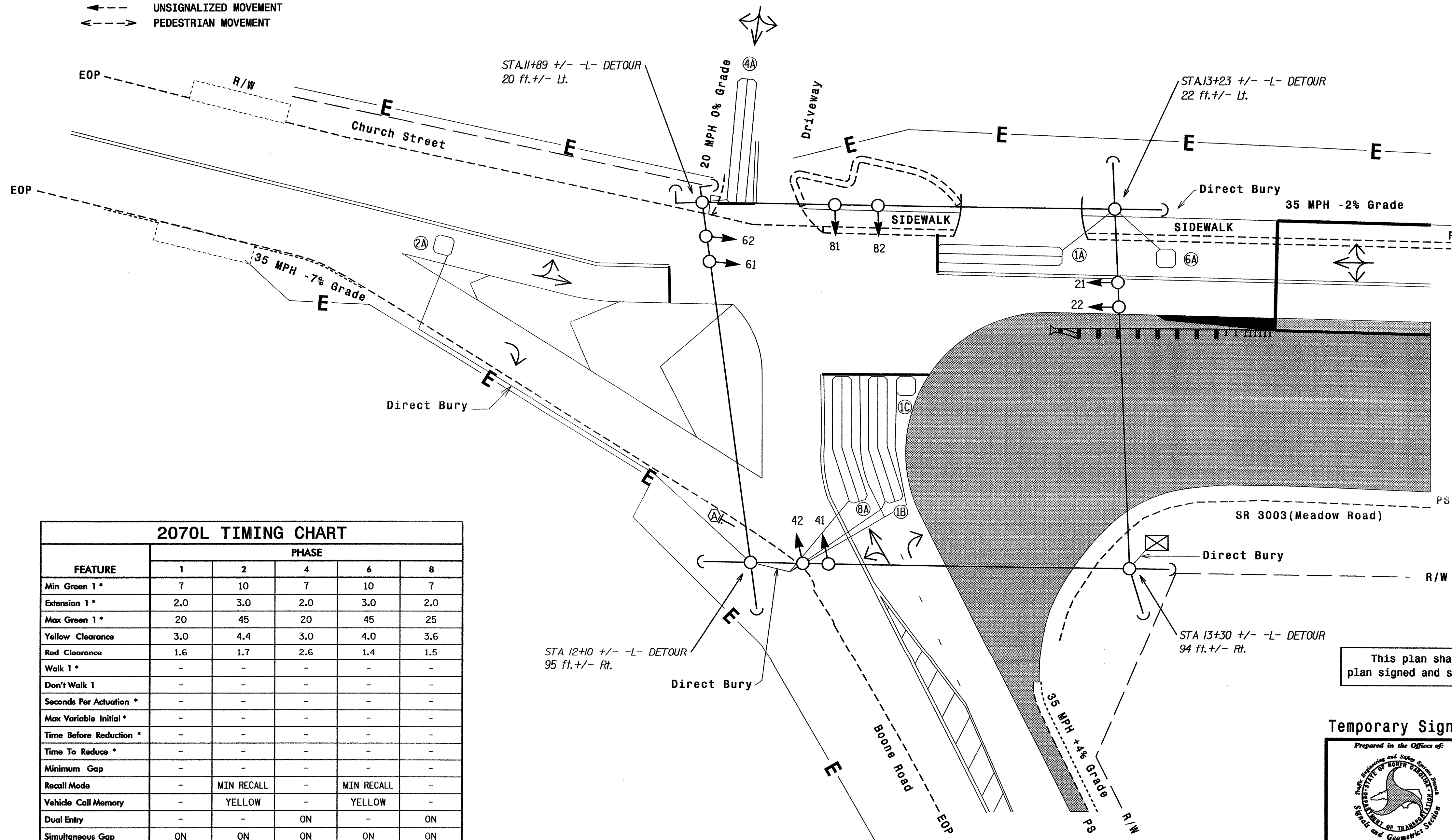
3 Phase Fully Actuated (Isolated)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2002 and "Standard Specifications for Roads and Structures" dated January 2002.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Omit phase 1 during phase 2 on.
- Program controller to clear from phase 2+6 to phase 1+6 by progressing through phase 4+8 (see Electrical Details).
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.

PHASING DIAGRAM DETECTION LEGEND

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



PLAN QUANTITIES

Pay Item	Feet
Signal Cable	860
Messenger Cable	490
Lead-in Cable	1250

LEGEND

- | PROPOSED | EXISTING |
|--|-----------------------------------|
| ○ → Traffic Signal Head | ● → Traffic Signal Head |
| ○ → Modified Signal Head | N/A |
| ○ → Sign | N/A |
| ○ → Pedestrian Signal Head With Push Button & Sign | N/A |
| ○ → Signal Pole with Guy | ○ → Signal Pole with Guy |
| ○ → Signal Pole with Sidewalk Guy | ○ → Signal Pole with Sidewalk Guy |
| ○ → Inductive Loop Detector | ○ → Inductive Loop Detector |
| ○ → Controller & Cabinet | ○ → Controller & Cabinet |
| ○ → Junction Box | ○ → Junction Box |
| ○ → 2-in Underground Conduit | ○ → 2-in Underground Conduit |
| N/A → Right of Way | ○ → Right of Way |
| → → Directional Arrow | → → Directional Arrow |
| → → Pavement Marking Arrow | → → Pavement Marking Arrow |
| → → Construction Zone | → → Construction Zone |
| E → Prop. Temp. Construction Easement Line | N/A |
| Ⓜ → "YIELD" Sign (R1-2) | Ⓜ → "YIELD" Sign (R1-2) |

2070L TIMING CHART

FEATURE	PHASE				
	1	2	4	6	8
Min Green 1*	7	10	7	10	7
Extension 1*	2.0	3.0	2.0	3.0	2.0
Max Green 1*	20	45	20	45	25
Yellow Clearance	3.0	4.4	3.0	4.0	3.6
Red Clearance	1.6	1.7	2.6	1.4	1.5
Walk 1*	-	-	-	-	-
Don't Walk 1	-	-	-	-	-
Seconds Per Actuation*	-	-	-	-	-
Max Variable Initial*	-	-	-	-	-
Time Before Reduction*	-	-	-	-	-
Time To Reduce*	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	YELLOW	-
Dual Entry	-	-	ON	-	ON
Simultaneous Gap	ON	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.

This plan shall supersede the plan signed and sealed on 06/13/2005.

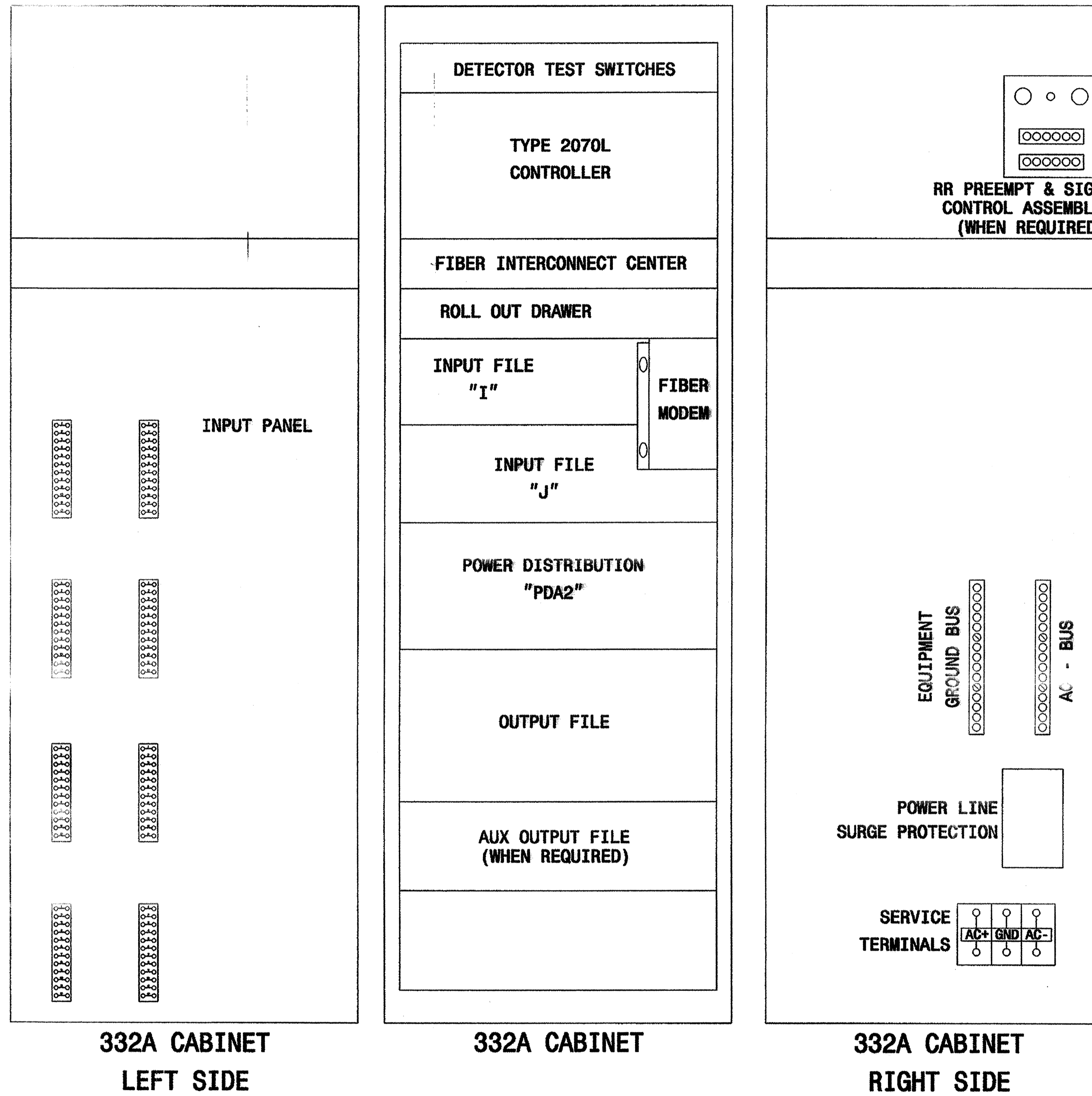
Temporary Signal to be Removed After Construction

Prepared in the Office of:

Church Street/ SR 3003 (Meadow Road) at Boone Road and Driveway
 Division 7 Rockingham County Edon
 PLAN DATE: March 2005 REVIEWED BY: R. Duff
 PREPARED BY: K. Maldonado REVIEWED BY: D. Y. Ishak
 REVISIONS: _____ INIT. DATE
 SCALE: 1"=20'

 122 N. McDowell St., Raleigh, NC 27603
 SIGNATURE: _____ DATE: _____
 SIG. INVENTORY NO. 07-2078T

30-SEP-2005 09:26
 s:\178 s:\proj\work\proj\2070L-2005\xxx.dgn
 RUFFY



NOTE
 -PROVIDE A 2 " SPACE BETWEEN THE CONTROLLER AND THE ROLL OUT DRAWER TO ACCOMMODATE A FIBER INTERCONNECT CENTER.

13-NOV-2002 10:48
 U:\cadd\170 cab\rear.dgn
 p.l.alexander

Typical Drawing

	Cabinet Component Layout 170 Cabinet Model 332A with 2070L Controller		SEAL 16286 ENGINEER MILTON I. DEAN
	PLAN DATE: October 2002 PREPARED BY: P L Alexander	REVIEWED BY: REVIEWED BY:	
REVISIONS		INIT.	DATE
122 N. McDowell St., Raleigh, NC 27603		SIG. INVENTORY NO. NA	