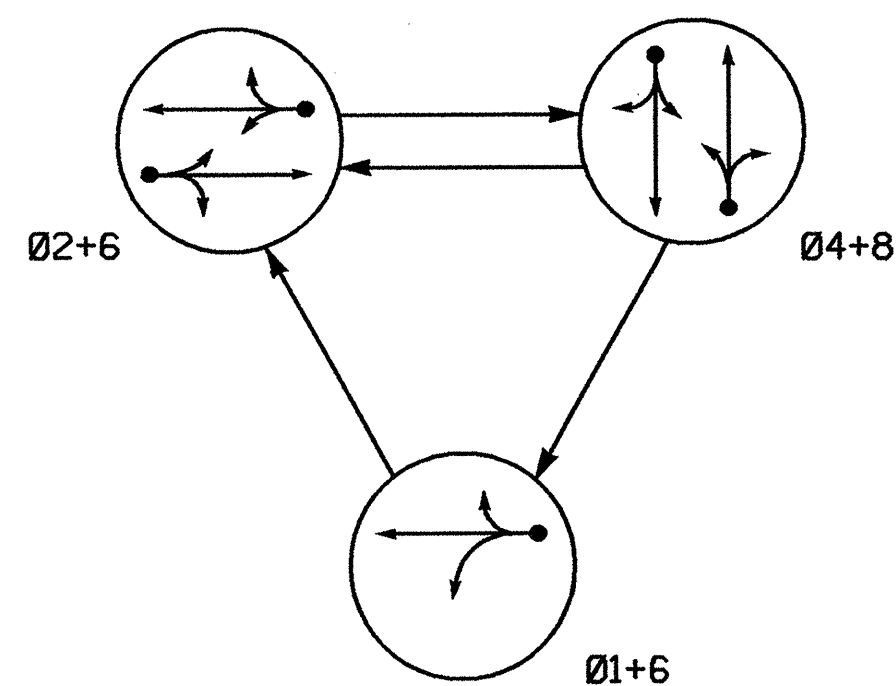


PHASING DIAGRAM



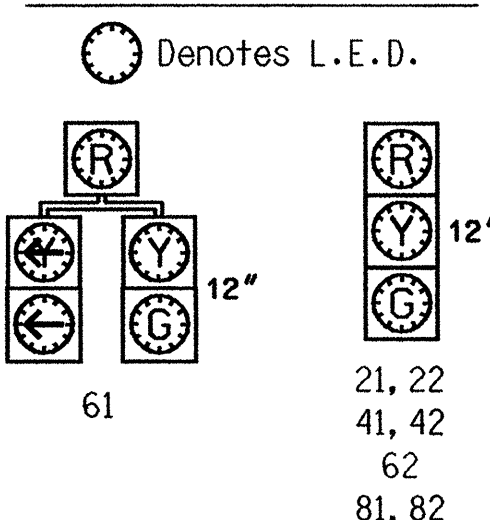
PHASING DIAGRAM DETECTION LEGEND

- ● → DETECTED MOVEMENT
- — → UNDETECTED MOVEMENT (OVERLAP)
- - - - → UNSIGNALIZED MOVEMENT
- - - - → PEDESTRIAN MOVEMENT

TABLE OF OPERATION

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

SIGNAL FACE I.D.



2070L LOOP & DETECTOR INSTALLATION

LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	DETECTOR PROGRAMMING								
				NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	SYSTEM LOOP	STRETCH TIME	DELAY TIME	NEW CARD
1A	6x15	3	50	Y	1	Y	Y	-	-	-	10	Y
2A	6x40	2-4-2	0	Y	2	Y	Y	-	-	-	-	Y
4A	6x40	2-4-2	0	Y	4	Y	Y	-	-	-	10	Y
4B	6x40	2-4-2	0	Y	4	Y	Y	-	-	-	15	Y
6A	6x40	2-4-2	0	Y	6	Y	Y	-	-	-	-	Y
8A	6x40	2-4-2	0	Y	8	Y	Y	-	-	-	10	Y

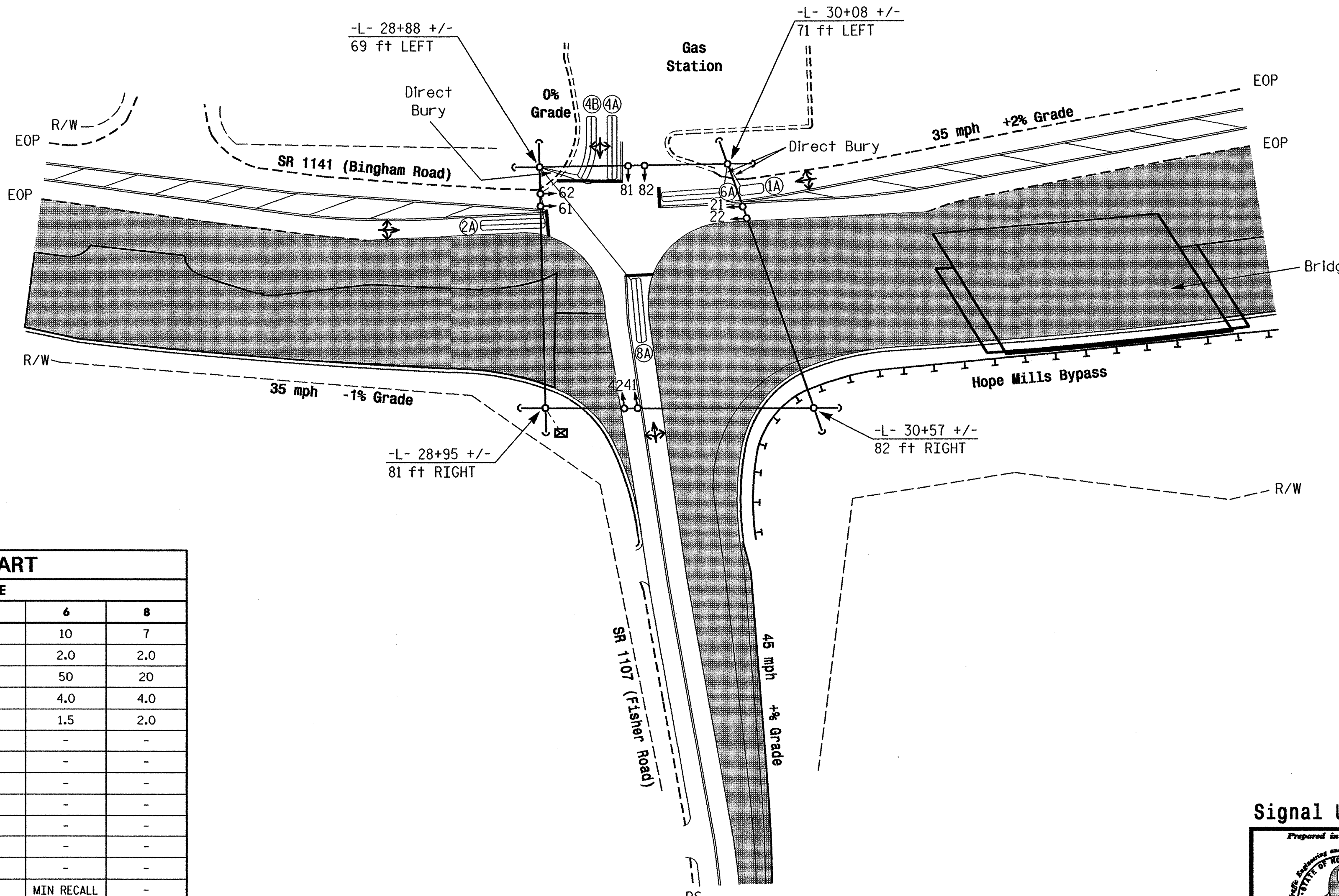
PLAN QUANTITIES

Pay Item	Feet
Signal Cable	990
Messenger Cable	640
Lead-in Cable	1060

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.
- 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.



2070L TIMING CHART

FEATURE	PHASE				
	1	2	4	6	8
Min Green 1 *	10	10	7	10	7
Extension 1 *	2.0	2.0	2.0	2.0	2.0
Max Green 1 *	20	50	20	50	20
Yellow Clearance	4.0	4.0	4.0	4.0	4.0
Red Clearance	1.0	1.5	2.0	1.5	2.0
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.

LEGEND

PROPOSED	EXISTING
○ →	● →
○ →	N/A
⊥	⊥
⊥	⊥
○ →	○ →
○ →	○ →
⊠	⊠
⊠	⊠
—	—
N/A	→
→	→
N/A	→
▬	▬
▬	N/A

Signal Upgrade: Phase II Temporary Design 1

	SR 1141 (Bingham Road)/ Hope Mills Bypass at SR 1107 (Fisher Road)/Gas Station		SEAL THOMAS J. WILLIAMS PROFESSIONAL ENGINEER No. 24393 DATE: 10/22/03
	Division 6 Cumberland County Hope Mills	PLAN DATE: May 2003 PREPARED BY: P.J. Porter REVIEWED BY: L.A. Elliott REVIEWED BY: STF/JPG	
222 N. McDowell St., Raleigh, NC 27603	SCALE 0 50 1"=50'	REVISIONS INIT. DATE	SIGNATURE DATE