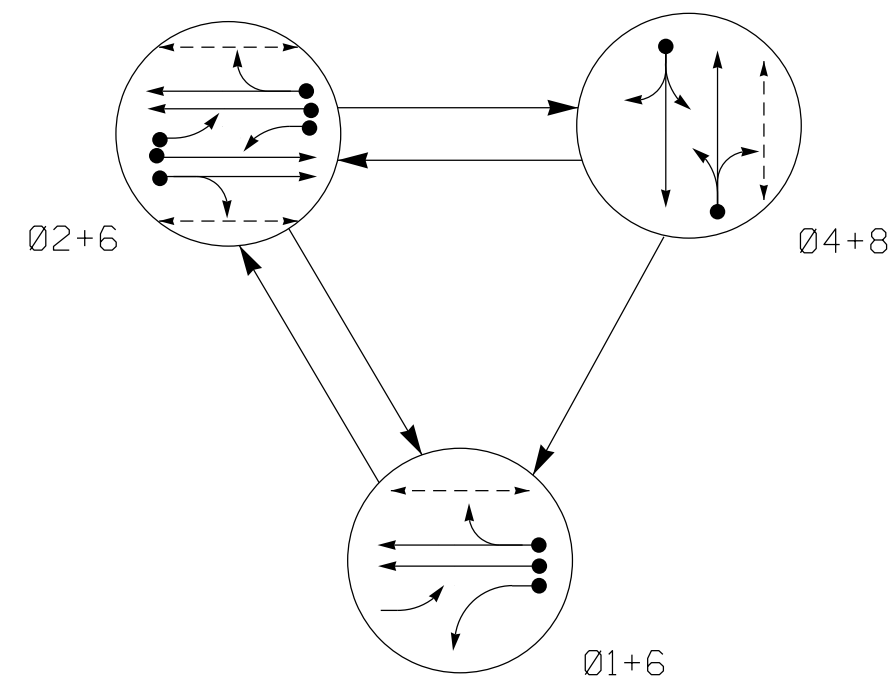
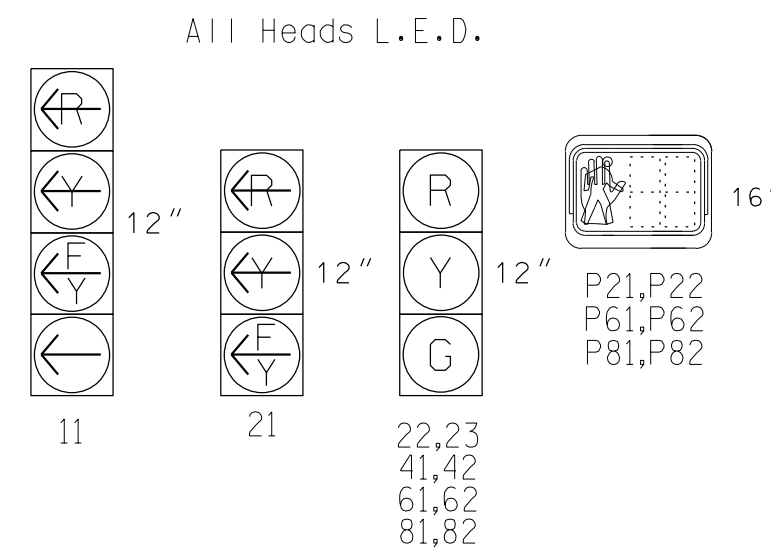


PHASING DIAGRAM



SIGNAL FACE	PHASE			
	Ø 1+6	Ø 2+6	Ø 4+8	FLASH
Ø2+6	←	←	←	←
21	←	←	←	←
22, 23	R	G	R	Y
41, 42	R	R	G	R
61, 62	G	G	R	Y
81, 82	R	R	G	R
P21, P22	DW	W	DW	DRK
P61, P62	W	W	DW	DRK
P81, P82	DW	DW	W	DRK

SIGNAL FACE I.D.



ASC/3 DETECTOR INSTALLATION CHART												
DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Yes	-	15	-	S	-	X
2A	6X6	70	EXIST	-	2	Yes	-	-	-	S	-	X
2B	6X6	70	EXIST	-	2	Yes	-	-	-	S	-	X
2C	6X40	+5	2-4-2	-	2	Yes	-	-	-	S	-	X
4A	6X40	+15	2-4-2	-	4	Yes	-	5	-	S	-	X
4B	6X6	+10	EXIST	-	4	Yes	-	15	-	S	-	X
6A	6X6	70	EXIST	-	6	Yes	-	-	-	S	-	X
6B	6X6	70	EXIST	-	6	Yes	-	-	-	S	-	X
8A	6X40	+5	2-4-2	-	8	Yes	-	5	-	S	-	X
S1	6X6	+75	EXIST	-	-	Yes	-	-	-	N	X	X
S2	6X6	+75	EXIST	-	-	Yes	-	-	-	N	X	X

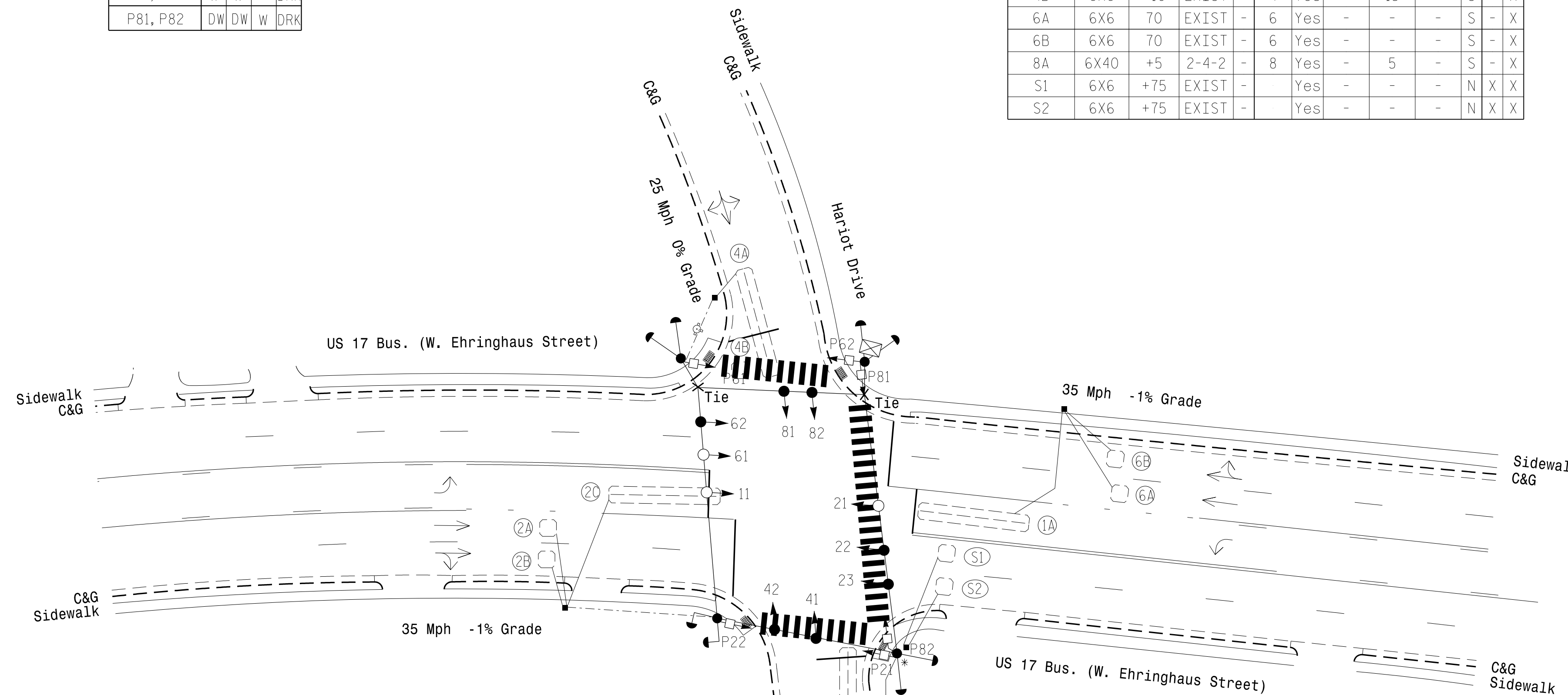
3 Phase Fully Actuated (Elizabeth City Signal System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 1 may be lagged.
- Reposition existing signal heads numbered 22, 23, and 62.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Pedestrian pedestals are conceptual and shown for reference only. See sheets P1-P3 for pushbutton location details.
- Program phase 8 ped detector to call phase 4 and 8 ped.
- Phase 4 ped is dummy ped to enable phase 8 leading ped interval.
- Pavement markings are existing unless otherwise indicated.
- Raise spans to obtain 17' minimum clearance for signal head heights.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM DETECTION LEGEND

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



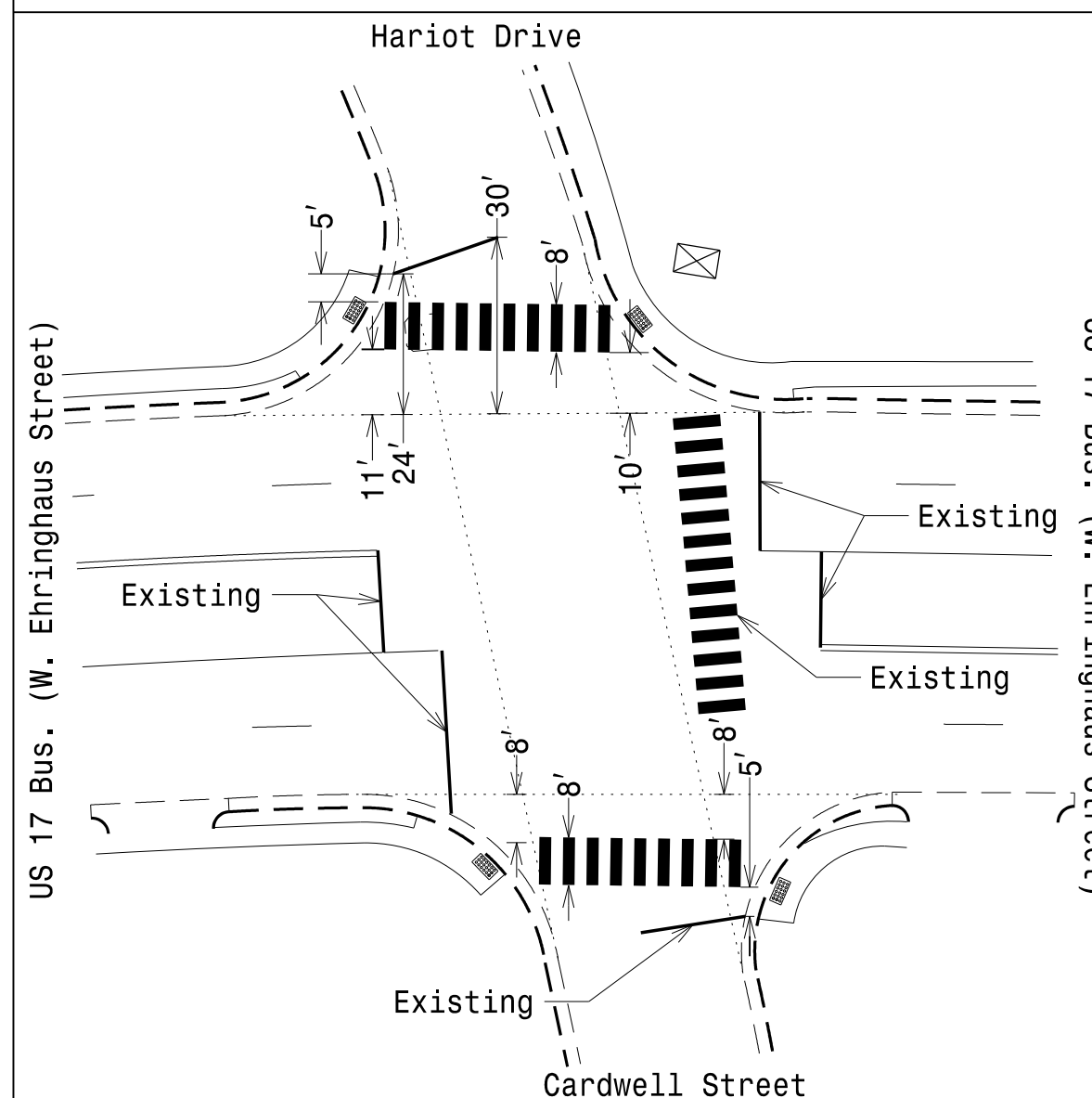
LEGEND

- | PROPOSED | EXISTING |
|--|--|
| ○ → Traffic Signal Head | ● → N/A |
| ○ → Modified Signal Head | ○ → N/A |
| → Sign | → Sign |
| □ → Pedestrian Signal Head with Push Button & Sign | □ → Pedestrian Signal Head with Push Button & Sign |
| ○ → 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 |
| --- Right of Way | --- Right of Way |
| → Directional Arrow | → Directional Arrow |
| ○ → Fire Hydrant | ○ → Fire Hydrant |
| ○ → Truncated Domes | ○ → Truncated Domes |

FEATURE	ASC/3 TIMING CHART				
	1	2	4	6	8
Min Green *	7	10	7	10	7
Delay Green	0	0	7	0	7
Walk *	0	7	0	7	7
Ped Clear	0	8	0	8	20
Veh. Extension *	2.0	3.0	2.0	3.0	2.0
Max 1 *	15	45	25	45	25
Yellow	3.0	3.9	3.2	3.9	3.3
Red Clear	2.1	1.2	2.9	1.2	2.8
Actuations B4 Add *	-	-	-	-	-
Seconds /Actuation *	-	-	-	-	-
Max Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Locking Detector	-	X	-	X	-
Recall Position	-	VEH. RECALL	-	VEH. RECALL	-
Dual Entry	-	-	X	-	X
Simultaneous Gap	X	X	X	X	X

* 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.

STOP BAR AND CROSSWALK LOCATIONS



Signal Upgrade

Prepared for the Offices of:

 750 N. Greenfield Pkwy, Garner, NC 27529
 DRMP, Inc.
 8000 Regency Parkway, Suite 175
 Cary, NC 27519
 NC License No. C-2213 (919) 650-1038

US 17 Bus. (W. Ehringhaus Street) at Cardwell Street/Hariot Drive
 Division 1 Pasquotank County Elizabeth City
 PLAN DATE: February 2018 REVIEWED BY: AJ Davis
 PREPARED BY: JA Le REVIEWED BY: LM Moon

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 022516
 LISA M. MOON
 DATE 9/20/2018
 SIGNED: Lisa M. Moon
 DATE 9/20/2018
 SIGNED: Lisa M. Moon
 SIGNED: Lisa M. Moon
 SIGNED: Lisa M. Moon

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

20-SEP-2018 16:34
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 Jmoon AT CAR-LMCDN1-W7