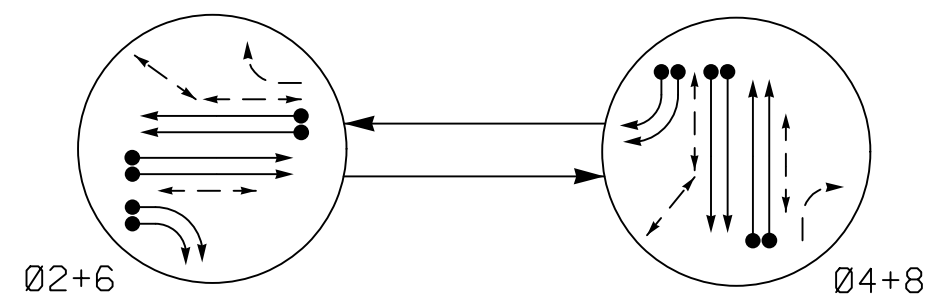


PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND
 ● DETECTED MOVEMENT
 --- UNDETECTED MOVEMENT (OVERLAP)
 -.- UNSIGNALIZED MOVEMENT
 ... PEDESTRIAN MOVEMENT

SIGNAL FACE I.D.

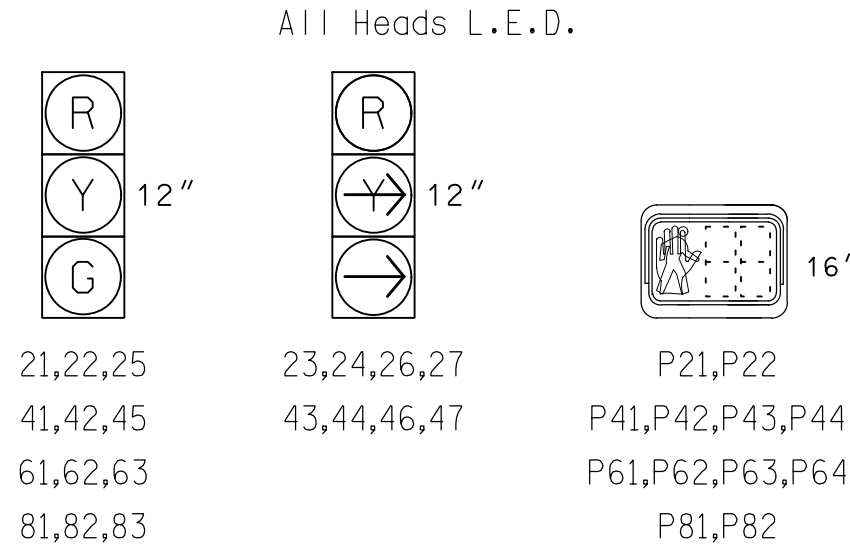


TABLE OF OPERATION

SIGNAL FACE	PHASE		
	02+6	04+8	TOTAL
21,22,25	G	R	Y
23,24,26,27	-	R	-
41,42,45	R	G	R
43,44,46,47	R	-	R
61,62,63	G	R	Y
81,82,83	R	G	R
P21,P22	W	DW	DRK
P41,P42,P43,P44	DW	W	DRK
P61,P62,P63,P64	W	DW	DRK
P81,P82	DW	W	DRK

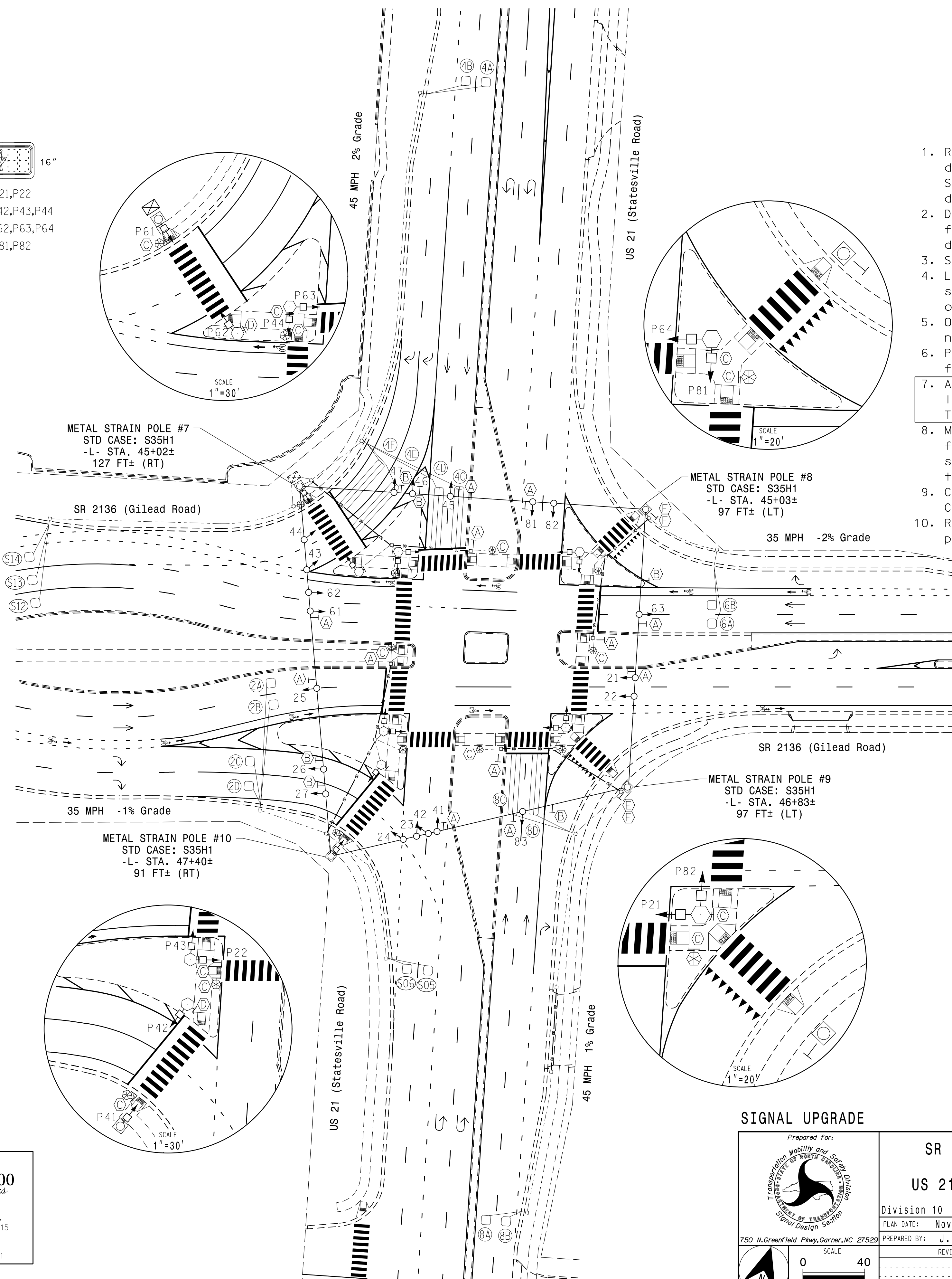
OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	DETECTOR PROGRAMMING							SYSTEM LOOP	NEW CARD
				PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME			
2A	6X6	70	4	Y	2	Y	Y	-	-	-	-	Y
2B	6X6	70	4	Y	2	Y	Y	-	-	-	-	Y
2C	6X6	70	4	Y	2	Y	Y	-	-	-	-	Y
2D	6X6	70	4	Y	2	Y	Y	-	-	-	-	Y
4A	6X6	300	4	Y	4	Y	Y	-	-	-	-	Y
4B	6X6	300	4	Y	4	Y	Y	-	-	-	-	Y
4C	6X40	0	2-4-2	Y	4	Y	Y	Y	2.0	5	-	Y
4D	6X40	0	2-4-2	Y	4	Y	Y	Y	2.0	5	-	Y
4E	6X40	0	2-4-2	Y	4	Y	Y	Y	-	10	-	Y
4F	6X40	0	2-4-2	Y	4	Y	Y	Y	-	15	-	Y
6A	6X6	70	4	Y	6	Y	Y	-	-	-	-	Y
6B	6X6	70	4	Y	6	Y	Y	-	-	-	-	Y
8A	6X6	300	6	Y	8	Y	Y	-	-	-	-	Y
8B	6X6	300	6	Y	8	Y	Y	-	-	-	-	Y
8C	6X40	0	2-4-2	Y	8	Y	Y	Y	2.0	5	-	Y
8D	6X40	0	2-4-2	Y	8	Y	Y	Y	2.0	5	-	Y
S05	6X6	+270	5	Y	-	-	-	-	-	-	-	Y
S06	6X6	+270	5	Y	-	-	-	-	-	-	-	Y
S12	6X6	+365	3	Y	-	-	-	-	-	-	-	Y
S13	6X6	+365	3	Y	-	-	-	-	-	-	-	Y
S14	6X6	+365	3	Y	-	-	-	-	-	-	-	Y

OASIS 2070 TIMING CHART

FEATURE	PHASE			
	2	4	6	8
Min Green 1 *	10	7	10	7
Extension 1 *	3.0	2.0	3.0	2.0
Max Green 1 *	90	30	90	30
Yellow Clearance	3.9	4.3	4.0	4.4
Red Clearance	2.5	1.9	2.5	1.9
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	7	7	7	7
Don't Walk 1	24	22	24	20
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

* 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.



2 Phase Fully Actuated (Gilead Road Closed Loop System)

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018, "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 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.
- All pedestrian pushbuttons shall be located in the field by the Division Traffic Engineer before installation.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset #0617.
- Refer to Pavement Marking Plans for proposed stopbar and crosswalk locations.

LEGEND

PROPOSED	EXISTING
	Traffic Signal Head
	Modified Signal Head
	Pedestrian Signal Head
	Pushbutton & Sign
	Inductive Loop Detector
	Controller & Cabinet
	Junction Box
	2-in Underground Conduit
	Directional Drill
	Right of Way
	Directional Arrow
	Metal Strain Pole
	Type I Pushbutton Post
	Type II Signal Pedestal
	No U-Turn/No Left Turn Sign (R3-18)
	"TURNING TRAFFIC MUST YIELD TO PEDESTRIANS" Sign (R10-15)
	Pedestrian Traffic Signal "Median" Sign (R10-3d)
	Pedestrian Traffic Signal Sign (R10-3b)
	Pedestrian Crossing Sign (W11-2)
	Downward Diagonal Arrow Plaque (W16-7P)

SIGNAL UPGRADE

Division 10 Wecklenburg Huntersville
 PLAN DATE: November 2017 REVIEWED BY: J. Lassiter
 PREPARED BY: J. Trueblood REVIEWED BY: J. Carroll

SR 2136 (Gilead Road) at US 21 (Statesville Road)

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

DocuSigned by: J. Lassiter
 DATE: 4/18/2018

SIG. INVENTORY NO. 10-0617