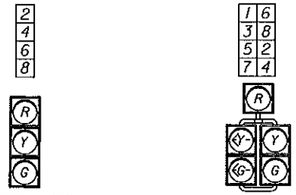
PROPOSED SIGNAL HEAD DETAILS



3-SECT., 1-WAY (LED)

FURNISH & INSTALL
4 STANDARD TRAFFIC SIGNAL
3 SECTIONS ON EACH FACE
1 DIRECTION

FURNISH & INSTALL
12 TUNNEL VISOR
SIGNAL HEAD AUXILIARIES

5-SECT., 1-WAY (LED)

FURNISH & INSTALL
4 STANDARD TRAFFIC SIGNAL
5 SECTIONS ON EACH FACE
1 DIRECTION

FURNISH & INSTALL
20 TUNNEL VISOR
SIGNAL HEAD AUXILIARIES

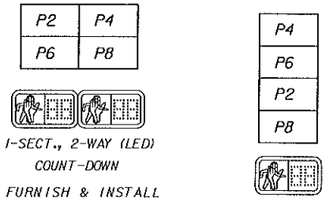
FURNISH & INSTALL 1 CONTROLLER ASSEMBLY
NEMA ONE PREEMPTION PLAN ACTUATED SOLID STATE;
SIGNAL CABLE;
6 TYPE 9, 2 Ch, SS, RM INDUCTIVE LOOP DETECTOR;
2 TYPE 10, 2 Ch, SS, RM, TD, INDUCTIVE LOOP DETECTOR;
AND 1 OPTICAL TYPE VEHICLE DETECTOR ASSEMBLIES

FURNISH & INSTALL - 1 TYPE N-VII
PRESSTRESSED CONCRETE POLE
WITH FOUNDATION
POLE LENGTH: 48'

ALSO 1 ELECTRICAL OVERHEAD POWER SERVICE. METER BASE PURCHASED BY CONTRACTOR FROM POWER COMPANY AND ELECTRICAL SERVICE WIRE

FIBER PULL BOX W/CONDUIT

PROPOSED PED SIGNAL DETAILS



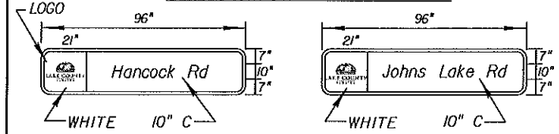
1-SECT., 2-WAY (LED) COUNT-DOWN

FURNISH & INSTALL
2 PEDESTRIAN TRAFFIC SIGNAL
1 SECTION ON EACH FACE
2 DIRECTIONS

1-SECT., 1-WAY (LED) COUNT-DOWN

FURNISH & INSTALL
4 PEDESTRIAN TRAFFIC SIGNAL
1 SECTION ON EACH FACE
1 DIRECTION

PROPOSED OVERHEAD SIGNS



(A) FURNISH & INSTALL
2 INTERNALLY ILUMINATED SIGN

(B) FURNISH & INSTALL
2 INTERNALLY ILUMINATED SIGN

WHITE LETTERS ON GREEN BACKGROUND
DOUBLE FACED

NOTES:
1. CONTRACTOR SHALL VERIFY STREET NAME SIGNS AND COLOR SCHEMES PRIOR TO FABRICATION.
2. SIGNS SHALL BE FABRICATED AND INSTALLED PER LAKE COUNTY PUBLIC WORKS STANDARD SPECIFICATIONS.
3. ILLUMINATED SIGNS TO BE ILLUMINATED BY LED.

FURNISH & INSTALL
18 PULL AND JUNCTION BOXES

FURNISH & INSTALL
500 LF UNDERGROUND CONDUIT
630-1-12

FURNISH & INSTALL
20 LF UNDERGROUND CONDUIT
630-1-12

80' DIRECTIONAL BORE W/ 2 CONDUITS
630-1-14

FURNISH & INSTALL
1- CONCRETE PEDESTAL TYPE II

R/W LINE

CONSTRUCT TYPE F CURB AND GUTTER

POLE A
STATION= 9+52.51
OFFSET= 31.92 LT
ELEV.= 208.00

OPTICOM
ELEV. 208.60

HANCOCK ROAD

9+00

11+00

JOHNS LAKE ROAD

L-4R DELAY

L-4

L-1

L6A D8 174' L6B D7

150'

D1 D2 D3 L2B 174' D4 L2A 150'

FURNISH & INSTALL
6 TYPE F LOOP ASSEMBLY
660-2-106

FURNISH & INSTALL
4 TYPE B LOOP ASSEMBLY
660-2-102

TYPE ASSEMBLY: TWO WIRE
TYPE SPAN: DIAGONAL

FURNISH & INSTALL
480 LF UNDERGROUND CONDUIT, 630-1-12

OPTICOM

DETECTORS FOR LOOPS				
LOOP	NO. OF LOOPS	NO. OF CHANNELS	NO. OF NEW DETECTORS	SECONDS OF DELAY
L-1	1	1	1	-
L-2A&B	2	2	1	-
L-4	1	1	1	-
L-4R	1	1	1	5
L-5	1	1	1	-
L-6A&B	2	2	1	-
L-8	1	1	1	-
L-8R	1	1	1	5

INITIAL CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
TIMING FUNCTION: MINIMUM GREEN	7	15	10	10	7	15	10	10
TIMING FUNCTION: EXTENSION	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
TIMING FUNCTION: MAXIMUM GREEN 1	30	45	30	30	20	45	30	30
TIMING FUNCTION: MAXIMUM GREEN 2								
TIMING FUNCTION: YELLOW CLEARANCE	4.5	4.5	4.0	4.0	4.5	4.5	4.0	4.0
TIMING FUNCTION: ALL RED	1	1	1	1	1	1	1	1
TIMING FUNCTION: PEDESTRIAN WALK		7		7		7		7
TIMING FUNCTION: PED. CLEARANCE		22		20		20		22
TIMING FUNCTION: RECALL		MIN				MIN		

TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER INSTALL SEQUENTIAL TIMING OF INITIAL AND EXTENSION INTERVALS.

FURNISH & INSTALL
26 LF UNDERGROUND CONDUIT
630-1-12

FURNISH & INSTALL
1- CONCRETE PEDESTAL TYPE II

80' DIRECTIONAL BORE W/ 2 CONDUITS
630-1-14

R/W LINE

POLE B
STATION= 10+55.27
OFFSET= 52.98 RT
ELEV.= 205.25

FURNISH & INSTALL - 1 TYPE N-VII
PRESSTRESSED CONCRETE POLE
WITH FOUNDATION
POLE LENGTH: 50'

MAINLINE SPEED = 45 MPH
SIDE STREET SPEED = 35 MPH

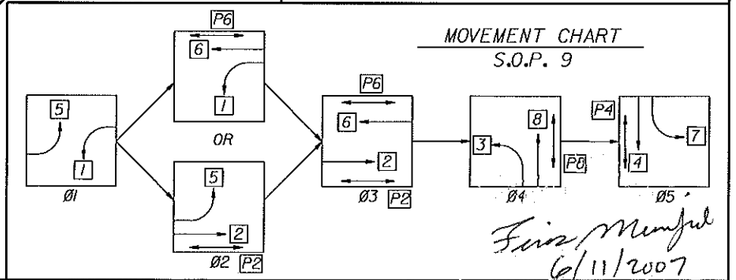
D10 TD9 8 8R DELAY

PEDESTRIAN SIGN DETAILS

4 EA. | 4 EA. FTP 25-04 | 4 EA R10-3e (MODIFIED)

NOTE: CONTRACTOR SHALL VERIFY ROAD NAME PRIOR TO FABRICATION

MOVEMENT CHART S.O.P. 9



Firas Munjed 6/11/2007

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FIRAS S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 49292
PROFESSIONAL ENGINEERING CONSULTANTS, INC.
200 EAST ROBINSON STREET SUITE 1560
ORLANDO, FLORIDA 32801
CERTIFICATE OF AUTHORIZATION NO. 3556

LAKE COUNTY FLORIDA

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, INC.
engineers planners surveyors

HANCOCK ROAD AND JOHNS LAKE ROAD INTERSECTION IMPROVEMENTS SIGNALIZATION PLAN

SHEET NO. 40

06/11/2007 04:20:01 PM n:\projects\lc-05\dgn\plansg01.dgn