



WIRING & PVC DIAGRAM

HEAD NUMBERS	1, 2, 9, 10	4, 5, 7, 8	3, 11, 6	12, 13, 14, 15	16, 17, 18, 19
LENS SIZE	12"	12"	12"	*	*
TYPE	Conv.	Conv.	Conv.	Ped.	Ped.
LENS CONFIGURATION	R	R	R	DW	DW
Dual Arrow **	Y	Y	Y	WALK	WALK
	G	G	G		
Total Number of Units	4	4	3	4	4

NOTE
EXISTING SPAN WIRE, SIGNALS, CONTROLLER AND POLES ARE TO BE REMOVED AND RETURNED TO CITY OF FARMERS BRANCH

* One Section Pedestrian Head (WINKO-MATIC Model VI-2L-AG or Equal)
** Dual Arrow Fiber Optics - Amber/Green Arrow (WINKO-MATIC Model AFO-12 or Equal)

CONDUIT & CABLE QUANTITIES

FROM	TO	DISTANCE	PVC CONDUIT T-TRENCH P-PUSHED	CABLE							
				SWITCHING	DETECTOR	GRD.	LOOP	POWER			
Q	Q	10'	1-1" P-25'						45'		
Q	1	5'	1-3" T-15'	15				15			
Q	PB1	5'	2-3" T-10'	10'	20	20	80	150	20		
PB1	2	10'	1-3" T-15'	15'			30	30			
PB1	PB2	20'	1-2" T-20'					75	265		
PB1	PB3	50'		55	55	110	165	55			
PB3	3	5'	1-3" T-10'	10				20			
PB3	PB4	50'		55		110	165	55	750		
PB4	3	15'	1-3" T-20'	20	20	50		40			
PB4	PB5	50'		55				55			
PB5	7	5'	1-3" T-10'	10				10			
PB1	PB10	40'		45	45	180	405	45			
PB10	6	5'	1-3" T-10'	10				20			
PB10	PB9	55'		60	240	540	60	1000			
PB9	4	20'	1-3" T-25'	50	25	60		50			
PB9	PB8	55'		120		120	300	60	121		
PB8	PB6	55'		120		120	180	60			
PB6	PB7	20'	1-2" T-20'				75	255			
PB6	5	5'	1-3" T-10'	20		30		10			
Totals				350	280	225	1130	2055	605	2391	45

QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANT.
CONDUIT:			
	1-3" PVC TRENCH	LF	115
	1-3" PVC PUSH		-
	2-3" PVC TRENCH		10
	3-3" PVC TRENCH		-
	1-2" PVC TRENCH	LF	40
	1-1" PVC TRENCH		-
	1-1" PVC PUSH	EA	25
	PULL BOX	EA	2
CABLE WIRE			
	5 CONDUCTOR #12	LF	350
	7 " #12		280
	20 " #12		225
	2 " #12 (PED. DET)		2
	" SHIELDED LOOP LEAD		2055
	1 " #8 GROUND		605
	3 " #8 POWER		45
	LOOP WIRE #12 XHHW	LF	2391
FOUNDATIONS:			
	SIGNAL CONTROLLER	EA	1
	TYPE A POLES	EA	1
	TYPE B "	EA	4
	TYPE C "	EA	3
POLES:			
	PEDESTAL	EA	3
	MAST ARM ASSEMBLY w/20' ARM		1
	" w/25' ARM		3
	" w/30' ARM		-
	" w/35' ARM	EA	1
	4 SECTION 12" SIGNAL HEAD w/1 DUAL ARROW		3
	3 SECTION 12" SIGNAL HEAD		8
	1 PEDESTRIAN HEAD	EA	8
	CONTROLLER - 7 PHASE FULLY ACTUATED		1
	w/3M OPTICOM PRE-EMPT	EA	1
	POWER SUPPLY	EA	1
	12" PLASTIC STOP BAR (60mil.)		145
	RETRO-REFLECTIVE	LF	1
	REMOVE EXIST WIRE & CONTROLLER	LS	1

- INSTALL SIGNAL MAST ARM & POLE
- INSTALL TRAFFIC SIGNAL HEAD
- INSTALL PEDESTRIAN BUTTON
- INSTALL OPTICOM DETECTOR ONE-DIRECTION
- INSTALL SIGNAL PULL BOX
- EXISTING SIGNAL PULL BOX
- INSTALL CONTROLLER & FOUNDATION
- POWER POLE - SERVICE SOURCE
- INSTALL PEDESTRIAN SIGNAL POLE
- INSTALL PVC CONDUIT
- EXISTING PVC CONDUIT
- EXISTING U.G. UTILITIES - WATER - SAN SEW. - TEL. - GAS - STORM SEWER

UNDER CONTRACT BY
H.B. JONES
Consulting Engineers Garland, Texas

CITIES OF ADDISON & FARMERS BRANCH
DALLAS COUNTY, TEXAS

TRAFFIC SIGNAL INSTALLATION

INTERSECTION LAYOUT
BROOKHAVEN DRIVE AND MARSH LANE

GINN, INC.
Consulting Engineers Dallas, Texas

Designed - H.B.J. Drawn - R.G.B. Date - 9-83 Job No. -
Approved - H.W.G. Checked - H.B.J. Scale - 1" = 20' Sheet 3 of 14