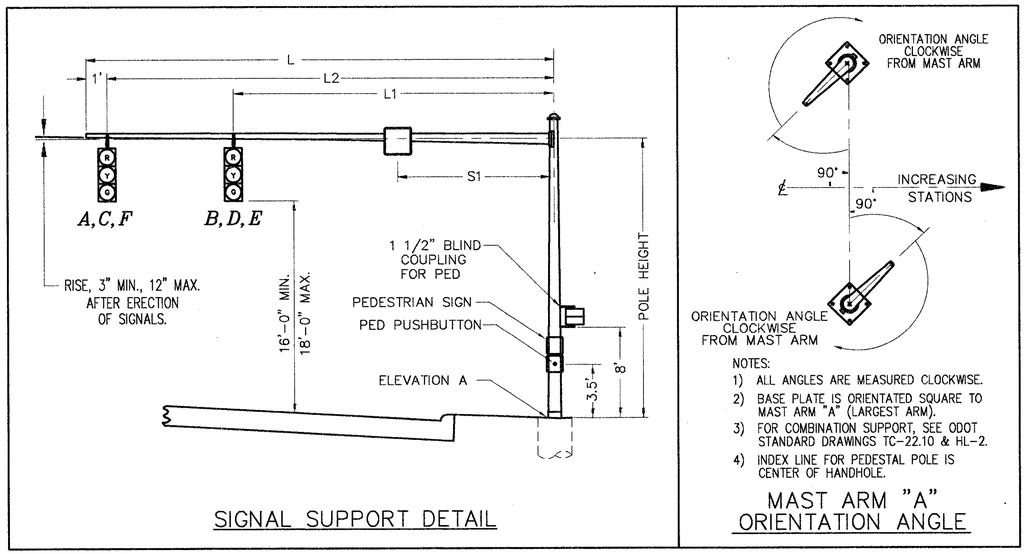
SIGNAL SUPPORT

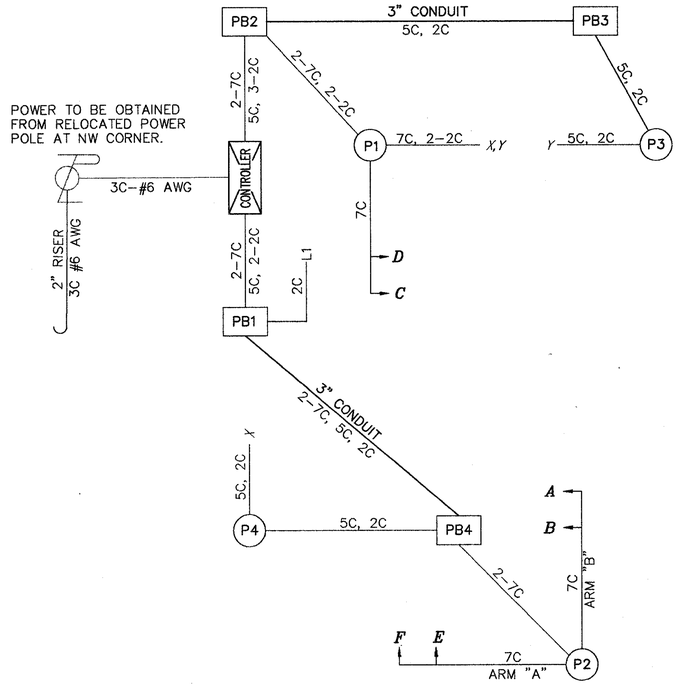
COMBINATION POLE	POLE NUMBER	LOCATION STATION	LOCATION OFFSET	SUPPORT TYPE & DESIGN NUMBER: PEDESTAL	TC-12.30	TC-81.20	POLE HEIGHT (Feet)	TOP OF FOUNDATION ELEV.	MAST ARM: ARM "A" LENGTH "L"	ARM "A" DESIGN	ARM "B" LENGTH "L"	ARM "B" DESIGN	SIGNALS: L1	L2	L3	SIGNS: S1	S2	PREEMPT: P1	P2	MAST ARM "A" ORIENTATION ANGLE (DEGREES)	ORIENTATION ANGLE FROM MAST ARM "A" (DEGREES): MAST ARM "B"	HANDHOLE (PED POLE ANGLE REFERENCE)	PEDESTRIAN SIGNALS	PEDESTRIAN PUSHBUTTON		POWER SERV. 1-1/2" BLIND HALF COUPLING 3" FROM BASE	CABLE ENTRANCE	LUMINAIRE BRACKET	2" CONDUIT ELL	2" CAPPED CONDUIT ELL (FOR FUTURE USE)
NO	P1	55+67	35' LT	–	–	3	22.5'	MATCH EXIST.	32'	3	–	–	21'	31'	–	10.5'	–	–	–	0°	–	180°	0°/270°	0°/270°	–	–	–	–	128°	–
NO	P2	56+17	31.5' RT	–	–	3	22.5'	MATCH EXIST.	26'	2	–	–	13'	25'	–	6.5'	–	–	–	270°	90°	180°	–	–	–	–	–	–	42°	–
									–	–	24'	1	13'	23'	–	6.5'	–	–	–										
NO	P3	56+44.5	35' LT	YES	–	–	8'	MATCH EXIST.	–	–	–	–	–	–	–	–	–	–	–	–	–	180°	180°	180°	–	–	–	–	299°	–
NO	P4	55+84	31.5' RT	YES	–	–	8'	MATCH EXIST.	–	–	–	–	–	–	–	–	–	–	–	–	–	90°	180°	180°	–	–	–	–	351°	–



SIGNAL SUPPORT DETAIL

NOTES:
1) ALL ANGLES ARE MEASURED CLOCKWISE.
2) BASE PLATE IS ORIENTATED SQUARE TO MAST ARM "A" (LARGEST ARM).
3) FOR COMBINATION SUPPORT, SEE ODOT STANDARD DRAWINGS TC-22.10 & HL-2.
4) INDEX LINE FOR PEDESTAL POLE IS CENTER OF HANDHOLE.

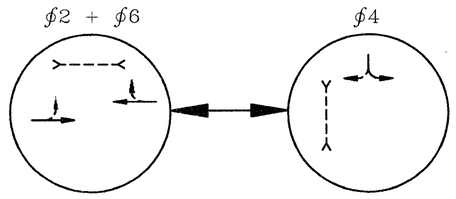
MAST ARM "A" ORIENTATION ANGLE



WIRING DIAGRAM

FUNCTION	ϕ1	ϕ2	ϕ3	ϕ4	ϕ5	ϕ6	ϕ7	ϕ8
INITIAL GREEN	–	20.0	–	10.0	–	20.0	–	–
MINIMUM GREEN	–	–	–	–	–	–	–	–
VEHICLE EXTENSION	–	3.0	–	3.0	–	3.0	–	–
MAXIMUM GREEN	–	35.0	–	25.0	–	35.0	–	–
PEDESTRIAN WALK	–	7.0	–	7.0	–	7.0	–	–
PEDESTRIAN CLEARANCE	–	16.0	–	14.0	–	16.0	–	–
VEHICLE YELLOW CLEARANCE	–	3.5	–	3.0	–	3.5	–	–
VEHICLE ALL RED CLEARANCE	–	3.0	–	3.0	–	3.0	–	–
RECALL	–	PED	–	OFF	–	PED	–	–
MEMORY	–	N.L.	–	N.L.	–	N.L.	–	–

SIGNAL TIMING CHART



PHASING DIAGRAM

SIGNAL HEAD	ϕ2+ϕ6 R/W				ϕ2+ϕ6 CLEAR				ϕ4 R/W				ϕ4 CLEAR				FLASH	DWELL
A	G	G	Y	R	R	R	R	R	Y	G								
B	G	G	Y	R	R	R	R	R	Y	G								
C	G	G	Y	R	R	R	R	R	Y	G								
D	G	G	Y	R	R	R	R	R	Y	G								
E	R	R	R	R	G	G	Y	R	R	R								
F	R	R	R	R	G	G	Y	R	R	R								
X-X	DW	DW	DW	DW	W	FDW	DW	DW	OUT	DW								
Y-Y	W	FDW	DW	DW	DW	DW	DW	DW	OUT	DW								

SIGNAL SEQUENCE CHART

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STATE OF OHIO
CLYDE C. HADDEN 54964
REGISTERED PROFESSIONAL ENGINEER

SUBMISSIONS / REVISIONS

VINE STREET (S.R. 640) ROADWAY WIDENING IMPROVEMENTS

CITIES OF WILLOWICK & EASTLAKE, LAKE COUNTY, OHIO

TRAFFIC SIGNAL DETAILS

VINE STREET / WAVERLY ROAD INTERSECTION

CT Consultants, Inc.
Engineers • Architects • Planners
Willoughby • Mentor • Columbus • North Canton • Youngstown

DATE: JANUARY, 2000
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CHECKED BY: A.E.P.
APPROVED BY:
SCALE:
HOR: NONE
VERT: –
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