

[illegible]

1. MAX. SAG = 5% OF SPAN.

2. STANDARD BACKRAKE = 1.5'

3. HEIGHT OF STRAIN WIRE HOOK-UP TO BE DETERMINED BY FIELD ENGINEER. TRAFFIC SIGNAL CABLE TO BE SECURED TO STRAIN (SPAN) WIRE WEATHERABLE NYLON CABLE HANGERS (300mm CTR.) DETAIL 'B'

4. TETHER CLAMP TO BE DESIGNED TO RELEASE UNDER 'HIGH WIND LOAD' TO PERMIT SIGNAL 'FREE SWING'.

STEEL STRAIN POLE

SIMPLEX FITTING (FOR LIGHTING) TYPICAL ON JOINT USE POLE

SEE DETAIL 'A'

PROPER SIZED SERVING SLEEVE TO BE INSTALLED AT CABLE END.

SPAN (VARIABLE)

SEE NOTE #1

STRAIN WIRE

SEE DETAIL 'B'

TETHER WIRE

SLOPE

SEE NOTE #2

SEE NOTE #4

WOOD POLE (SHOWN AS EXISTING)

120VAC POWER LINES

SECONDARY (K.G.E.)

SEE DETAIL 'C'

SEE POWER POLE DETAILS FOR HARDWARE AND CONNECTION. SEE DETAIL 'C' NOTE #3

SIGNAL CONTROLLER

16' - 19' (MIN - MAX. HGT.)

SEE NOTE #3

METER BOX & POWER DISCONNECT DETAILS

METER BOX

POWER DISCONNECT

NOTE:

* TO BE MARKED WITH WHITE TAPE

POWER-#6 AWG BLACK
NEUTRAL-#6 AWG WHITE
GROUND-#8 AWG GREEN

LOCKOUT

ALL THREAD NIPPLE

BREAKER (AMPERE RATING AS REQUIRED BY N.E.C.)

#8 AWG (GREEN) GRND. WIRE TO CONTROLLER GRND.

A SINGLE CONDUCTOR STRANDED #8 GREEN WIRE SHALL CARRY THE EQUIP. GROUND FROM THE GRND. LUG OF ALL SIGNAL POLES TO CONTROLLER CABINET AND THE POWER DISCONNECT BOX.

GROUND LUG

GROUND WIRE (#8 BARE-SOLID)

CONDUIT (FROM/TO CONTROLLER)

1" RIGID STEEL GALV. CONDUIT WITH 1/2" #8 GREEN TYPE THIN STRANDED WIRE.

2-POLE ARRESTER 120/240 VAC

A STRAIN POLE ASSEMBLY

NOTE: SEE STEEL POLE ASSY DETAIL SHEET FOR STRAIN POLE GASK DETAILS

STRAIN AND TETHER WIRE GALV. GUY STRAND (7-WIRE) 8mm SM (5350 TEST) WEIGHT PER 1000 @ 200

CABLE EXIT MULTI-CONDUCTOR SIGNAL CABLE

THIMBLE EYE NUT (GALV.) ASSEMBLY

STRAIN CLAMP

3-BOLT GUY CLAMP

WIRE 8mm DIA.

B SIGNAL BRACKET ASSEMBLY DETAILS

BLACK WEATHERABLE NYLON TIE WRAP CABLE TIES (CLIP EXCESS STRAP)

8mm STRAIN WIRE

CABLE SHOCKLE CLAMP

MULTI-CONDUCTOR SIGNAL CABLE

WIRE ENTRANCE/BALANCE ADJUST CIRCUIT QUICK-DISCONNECT HANGER

TOP BRACKET (FOR SIGNAL ASSY)

BOTTOM BRACKET

8mm TETHER WIRE

3-BOLT GUY CLAMP (NOTE MTO. TO BOTTOM BRACKET)

SIGNAL FASTENER ASSY.

DRILL: 12mm HOLE EXTRA LENGTH BOLT

C WOOD POLE ASSEMBLY DETAILS

BACK PLATE

JAM NUT

GALV. THIMBLE EYE NUT

GUY WIRE (8mm)

3-BOLT GUY CLAMP

SEE NOTE 1

GALV. THIMBLE EYE BOLT

FRONT PLATE

POWER LINES (120 VAC)

WEATHERHEAD/ENT. (FOR POWER LINES)

2-HOLE (METAL) CLAMP

WEATHERHEAD/ENT. (FOR MULTI-CONDUCTOR SIGNAL CABLE)

2-HOLE (METAL) CLAMP

NOTE:

1. GALV. THIMBLE EYE ANCHOR BOLT AND EXPANDING ANCHOR (NOT SHOWN) TO STABILIZE WOOD POLE (WHERE APPLICABLE)

2. ANY COMBINATION OF ROUND/THIMBLE EYE BOLTS AND NUTS MAY BE UTILIZED AS APPLICATION MAY VARY. FIELD ENGINEER TO DETERMINE TYPE OF HARDWARE USED.

3. HARDWARE SHOWN IS TRANSFERABLE TO STEEL POLE IN WHOLE OF PART WHERE STEEL STRAIN POLE IS USED. (POWER SIGNAL CABLES, METER, ETC.) FIELD ENGINEER TO MAKE DETERMINATION. STEEL STRAIN POLE APPLICATIONS MAY VARY AS TO MOUNTING ON POLE: USE OF CLAMPS, BANDED BRACKETS, ETC. ARE STD. - FIELD ENGINEER TO DETERMINE BEST TYPE APPLICATIONS.

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**POWER POLE AND SPAN
POLE ASSEMBLY DETAILS**

NEIL D. CABLE P.E. - CITY ENGINEER

PROJECT NUMBER	OCA #
472-83685	706852

DATE	SHEET
FEB 96	55 OF 92