

POWER POLE DETAILS

KG&E POWER LINE(S) STD. HGT. @ 21' ±

POWER CONNECTION TO BE MADE BY KG&E (CONTRACTOR TO INSURE SUFFICIENT RISE IS LEFT AT WEATHER HEAD TO RUN UP TO AND MAKE CONNECTION AT SECONDARY.)

WOULDRING (INSTALLED BY KG&E)

(20 VAC SERVICE ENTRANCE w/ COVER (WEATHERHEAD))

12" MIN

24" MIN (W/ WIRE APPLICABLE)

BELL TELEPHONE LINE(S) STD. HGT. @ 22' ± ±

6' 0"

3/4" EMT

W/TER BOX (TO BE OBTAINED FROM K&S & INSTALLED BY CONTRACTOR)

WEATHER PROOF POWER DISCONNECT 3/4" W/8 - 70 AMP 15A 1UG W/ BREAKER ACCORDING TO N.E.C.

CONDUIT (1" - SEE NOTE G DETAIL)

CONDUIT CLAMPS (W/AL SPRING & 1/4" HOLE CONDUIT)

GROUND CLAMP / WIRE w/ STAPLE FASTENER (W/AL - NO BARE - SOLID)

GROUNDING (100 - 500' ±)

24" - 30" MIN. MAX. DIRT

TO CONTROLLER →

REV. DATE	COMMENTS	INT.
REV. 01	DETAILS A.D. - REWORK CIRCULAR, REMOVE HUNG GUY	1/2
REV. 02	CHANGE 1/4" HOLE CONDUIT W/AL - NO BARE	1/2
REV. 03	CHANGE W/TER BOX TO 1/4" HOLE CONDUIT	1/2
REV. 04	REWORK POWER DISCONNECT (REWORKED)	1/2
REV. 05	CHANGE POWER DISCONNECT W/AL (TO MAIN)	1/2
REV. 06	ADD 20' OF 1/4" HOLE CONDUIT BOX	1/2
REV. 07	Change Power Pole Height	1/2

1. DROP MAX. AT 5% OF SPAN. (% SAG)
2. STD. RAKE AT 3%
3. HEIGHT OF STRAIN WIRE HOOK-UP TO BE DETERMINED BY FIELD ENGINEER. TRAFFIC SIGNAL CABLE TO BE SECURED TO STRAIN (SPAN) WIRE w/ NON-CORR. NYLON CABLE HANGERS (1/2" CTRS.) DETAIL 'B'
4. TETHER CLAMP TO BE DESIGNED TO RELEASE UNDER 'HIGH WIND LOAD' TO PERMIT SIGNAL 'FREE-SWING'.
5. CONTRACTOR TO GIVE 24 HR. NOTICE TO ENGINEER PRIOR TO POURING ANY SIGNAL BASE OR CONTROLLER PAD.

STEEL STRAIN POLE
 SIMPLEX FITTING (FOR LIGHTING) TYPICAL ON 35" JOINT USE POLE
 PROPER SIZED SERVING SLEEVE TO BE INSTALLED AT CABLE END.
 STRAIN WIRE
 SEE NOTE #1
 SEE NOTE #2
 TETHER WIRE SLOPE

METER BOX ASSEMBLY DETAILS

GROUND LUG
 MULTITHREAD PIPE
 LOCK NUT

WEATHERPROOF POWER DISCONNECT ASSEMBLY DETAILS

NOTE: FROM WATER TO CONTROLLER USE 1/2" RIGID STEEL GALV CONDUIT WITH 1/4" TYPE THIN STERNOZO WIRE.

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

2-POLE ARRESTER 120/240 VAC

#8 AWG (GREEN) GND. WIRE TO CONTROLLER GND.
 A SINGLE CONDUCTOR STRANDED TO GREEN WIRE SHALL CARRY THE EQUIP. GROUND FROM THE GND. LUG OF ALL SIGNAL POLES TO THE CONTROLLER CABINET AND THE POWER DISCONNECT BOX.
 GROUND WIRE (80 BARE - SOLID) CONDUIT (FROM/TO CONTROLLER)

A

STRAIN POLE ASSEMBLY DETAILS

NOTE: SEE STEEL POLE ASS'Y DETAIL SH'T. FOR STRAIN POLE BASE DETAILS.
STRAIN AND TETHER WIRE, GALV. GUY STROPS (2 WIRE), SPLIT SH. (3550 & TEST) NGRT. PER 1000 @ 205'

STRAIN WIRE HOOK-UP ASS'Y.

CABLE ENT' MULTI-CONDUCTOR SIGNAL CABLE

THIMBLE EYE NUT (GALV) ASSEMBLY

STRAIN CLAMP

3-BOLT GUY CLAMP

STRAIN WIRE (S16) "D"

WOOD POLE ASSEMBLY DETAILS

Diagram illustrating the assembly details of a wood pole, showing various hardware and cable attachments.

Labels:

- BACK PLATE
- WAVE NUT
- GALV. THIMBLE EYE NUT
- GUY WIRE (5/16")
- 2-BOLT GUY CLAMP
- FOOT PLATE
- STRAIN WIRE
- POWER LINES (20 VAC)
- WEATHER-HEAD (NUT) (FOR POWER LINES)
- 2-HOLE (METAL) CLAMP (5" MAX. LTS.)
- WEATHERHEAD CHIT (FOR MULTI-CONDUCTOR SIGNAL CABLE)
- 2-HOLE (METAL) CLAMP (5" MAX. LTS.)

Notes:

1. GALV. THIMBLE EYE ANCHOR BOLT AND EXPANDING ANCHOR (NOT SHOWN) TO STABILIZE WOOD POLE WHERE APPLICABLES
2. ANY COMBINATION OF SIGNAL 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 WHICH OR PART WHERE STEEL SHOWN POLE IS USED. (FORMERLY SIGNAL CABLE W/INSTEAD OF FIELD ENGINEER TO MAKE DETERMINATION. STEEL STRAIN POLE APPLICATIONS MAY VARY AS TO MOUNTINGS ON POLE USE OF CLAMPS (TWO-HOLE HARDWARE), ETC. ARE STD. - FIELD ENGINEER TO DETERMINE BEST TYPE APPLICATIONS.

PROJECT DESCRIPTION		
POWER POLE AND SPAN POLE ASSEMBLY DETAILS		
STANDARD APPLICATIONS PROJECT NUMBER		
ROOM NO.	APPROVED BY	DATE SEPT 03
DRAWN BY SCAL		REVISED 8-23 (CHASER SCAL)
CITY OF WICHITA DEPARTMENT OF PUBLIC WORKS		
TRAFFIC ENGINEERING W.M.G. MCHINLEY TRAFFIC ENGINEER		SCALE DO NOT SCALE INFO