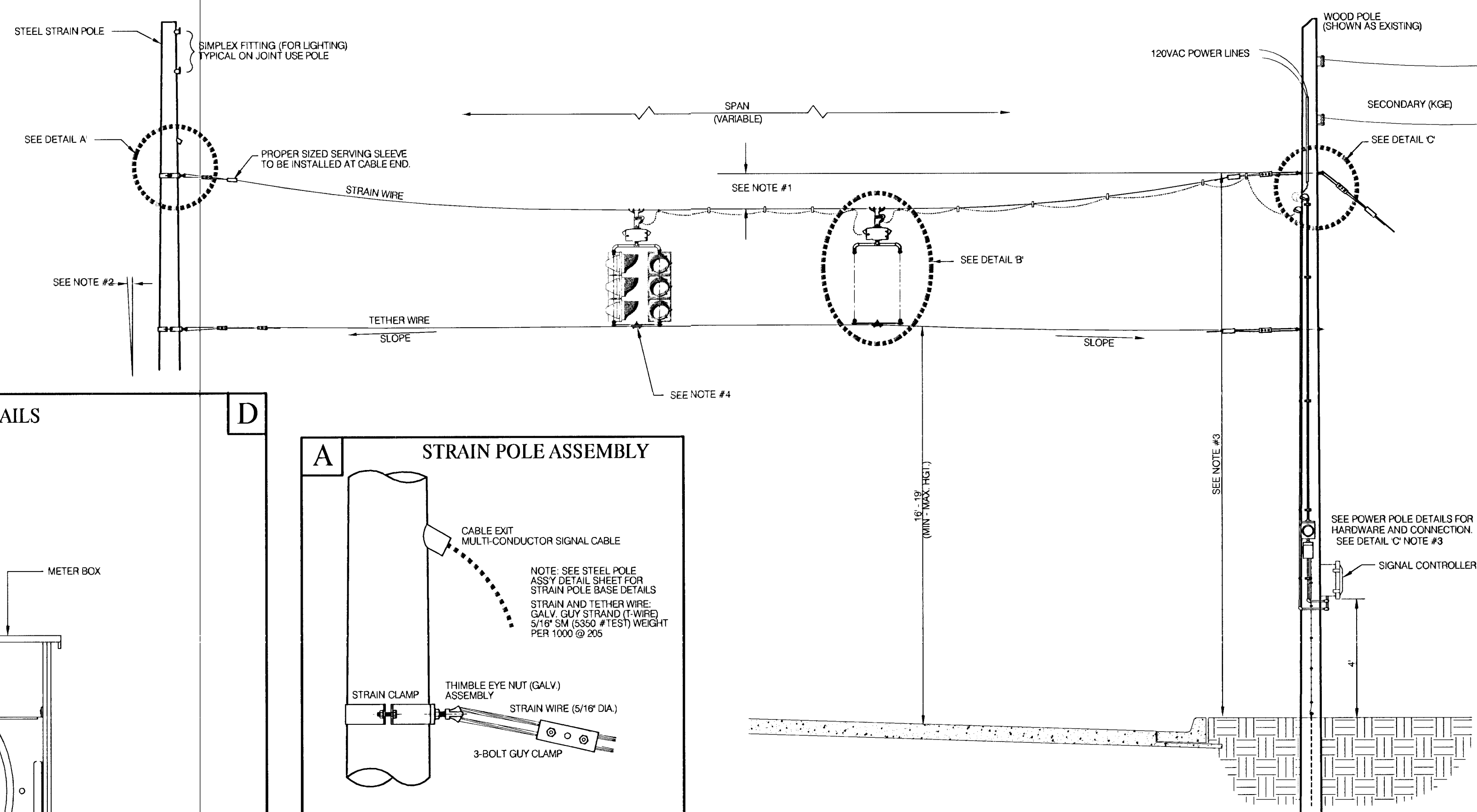


[illegible]

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 (12" CTR.) DETAIL 'B'
4. TETHER CLAMP TO BE DESIGNED TO RELEASE UNDER 'HIGH WIND LOAD' TO PERMIT SIGNAL 'FREE SWING'.



Technical drawing of a power disconnect box, showing internal wiring and components. The drawing is divided into two main sections: the top section shows the internal wiring and components, and the bottom section shows the external wiring and components.

Top Section (Internal Wiring and Components):

- METER BOX:** Indicated by an arrow pointing to the top of the box.
- LOCK NUT:** Indicated by an arrow pointing to the lock nut on the conduit.
- ALL THREAD NIPPLE:** Indicated by an arrow pointing to the all thread nipple on the conduit.
- NOTE:** * TO BE MARKED WITH WHITE TAPE

Bottom Section (External Wiring and Components):

- POWER DISCONNECT BOX:** Indicated by an arrow pointing to the box.
- BREAKER (AMPERE RATING AS REQUIRED BY N.E.C.):** Indicated by an arrow pointing to the breaker.
- #8 AWG (GREEN) GRIND WIRE TO CONTROLLER GRIND:** Indicated by an arrow pointing to the green wire.
- A SINGLE CONDUCTOR STRANDED #8 GREEN WIRE SHALL CARRY THE EQUIP. GROUND FROM THE GRIND. LUG OF ALL SIGNAL POLES TO CONTROLLER CABINET AND THE POWER DISCONNECT BOX.**
- GROUND LUG:** Indicated by an arrow pointing to the ground lug.
- GROUND WIRE (#6 BARE SOLID):** Indicated by an arrow pointing to the ground wire.
- CONDUIT (FROM/TO CONTROLLER):** Indicated by an arrow pointing to the conduit.
- 1" RIGID STEEL GALV. CONDUIT WITH 1/2" #8 GREEN TYPE THIN STRANDED WIRE:** Indicated by an arrow pointing to the conduit.
- POLE ARRESTER 1/2-240 VAC:** Indicated by an arrow pointing to the pole arrester.

#6 AWG BLACK

PROJECT NUMBER

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

The diagram illustrates the assembly of a strain pole. A vertical pole is shown on the left. A cable, labeled "CABLE EXIT MULTI-CONDUCTOR SIGNAL CABLE", exits from the top of the pole. A dashed line indicates the cable's path down to a "THIMBLE EYE NUT (GALV) ASSEMBLY" which is attached to the pole. A "STRAIN CLAMP" is shown on the pole, with a "STRAIN WIRE (5/16" DIA.)" extending from it. This wire is connected to the thimble eye nut assembly. A "3-BOLT GUY CLAMP" is shown at the end of the strain wire, with two bolts visible. Text on the right side of the diagram provides additional specifications: "NOTE: SEE STEEL POLE ASSY DETAIL SHEET FOR STRAIN POLE BASE DETAILS", "STRAIN AND TETHER WIRE: GALV. GUY STRAND (7-WIRE)", "5/16" SM (3500 # TEST) WEIGHT PER 1000 @ 205".

Diagram illustrating the Signal Fastener Assembly. The assembly includes a Cable Saddle Clamp, 5/16" Strain Wire, Black Weatherable Nylon Tie Wrap Cable Ties (Clip Excess Strap), Multi-Conductor Signal Cable, Wire Entrance / Balance Adjust, Circuit Quick-Disconnect Hanger, Top Bracket (for Signal Assy), Signal Fastener Assy, Extra Length Bolt, Drill 1/2" Hole, 3 Bolt Guy Clamp (Note Mtg. to Bottom Bracket), Bottom Bracket, and 5/16" Tether Wire.

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 TRANSFERRABLE TO STEEL POLE IN WHOLE OF PART WHERE STEEL STRAIN POLE IS USED. (POWER, SIGNAL CABLE, METER, ETC.) FIELD ENGINEER TO MAKE DETERMINATION. STEEL STRAIN POLE APPLICATIONS MAY VARY AS TO MOUNTING ON POLE. USE OF CLAMPS, BANNED BRACKETETS, ETC. ARE STD. - FIELD ENGINEER TO DETERMINE BEST TYPE APPLICATIONS.

NOTE:

1. GALV. THIMBLE EYE ANCHOR BOLT AND EXPANDING ANCHOR (NOT SHOWN) TO STABILIZE WOOD POLE (WHERE APPLICABLE)
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CITY OF WICHITA
DEPARTMENT OF PUBLIC WORKS
 DIVISION OF TRAFFIC ENGINEERING
RANDALL W. HOSKINS, P.E. **TRAFFIC ENGINEER**

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