TRANSMISSION LOADING TREE AND POLE DRILLING DETAILS
POLE FS32

FIELD STREET 115KV 
THREE-WAY SWITCH
INSTALLATION

DISTRIBUTION
TRANSMISSION

LOAD TREE COORDINATES
X = TRANSVERSE LOADS
Y = LONGITUDINAL LOADS
Z = VERTICAL LOADS

ELEVATION VIEW
LOOKING AT "D" FACE
LOOKING AT "A" FACE

DRILLING DETAIL
POLE ORIENTATION
STEP INSERTS DETAIL
GROUND INSERTS DETAIL

LOCATION
CONDUCTOR
SHEILD
TRANSMISSION LATERAL
SHEILD LATERAL

CONDUCTOR SHEILD SHEILD LATERAL TRANSMISSION LATERAL

PROFILE NUMBER:
1

4'-9" - WORKING INSERT
66'-0"
38'-3"
37'-6"
37'-9"
20'-3"
19'-9"
19'-6"
18'
12'
10'
8'

WORKING INSERTS DETAIL
GROUND ROD
STEP INSERTS
NAMEPLATE

SPECIFIC NOTES:

- THE POLE MANUFACTURER SHALL PROVIDE THE COUPLINGS AND INTERNAL CABLE WITH CONNECTORS. PROVIDE #3 AWG STRANDED COPPER GROUND WIRE.
- THE POLE MANUFACTURER SHALL PROVIDE STEP INSERTS ON ALL FOUR POLE SIZES AT THIS LOCATION. THE STEP BOLTS SHALL BE WITHIN THE TRANSMISSION AREA INDICATED IN THE DETAIL.
- THE POLE MANUFACTURER SHALL PROVIDE 3 NON CORROSIVE STEP BOLT INSERTS CAST INTO THE POLE AS INDICATED. THE MANUFACTURER SHALL PROVIDE A 3/4" STEP BOLT FOR EACH STEP BOLT INSERT.
- THE SWITCH BOLT HOLES ARE UNKNOWN. ANTICIPATE 45 ADDITIONAL HOLES. ANTICIPATE SWITCH FRAME TO EXTEND 18" BEYOND POLE.

GENERAL NOTES:

1. THE ORIENTATIONS OF LOADS ARE AS SHOWN IN THE VIEWS.
2. ULTIMATE WIND ON POLE = 40 #8 LIS/50 FT FOR 2500 LOADS (EXTREME WIND = 100MPH)
3. ALL LOADS GIVEN IN POUNDS AND INCLUDE THE APPROPRIATE OIL.
4. POLE DESIGNED TO THE NESC 2017 AND GRADE B CONSTRUCTION.