

EXHIBIT C
Engineering Specifications for an Overhead Transmission Line
Segment 2 of 3

PRINCIPAL CIRCUIT

1. Name of Petitioner: ITC Midwest, LLC
2. Name or Circuit Number of Line: Coggon Circuit 2710 - Central City Terrace Substation
3. Length of Segment: 1.81 miles
4. Segment is located in the following sections, townships, and ranges: Sections 15, 22, 27 and 34 in T86N R6W
5. Segment will be rebuilt in 2013.
6. Segment will be rebuilt and maintained in accordance with the Iowa Electrical Safety Code and the 2007 Edition of the National Electrical Safety Code.
7. Maximum *Capable of Operating* Voltage: 72.5 kVAC Nominal Operating Voltage: 69 kVAC
8. Construction Grade: B Typical Span: 275 ft. Maximum Span: 300 ft.

Vertical Overhead Clearance Requirement* for the Phase Conductors

| | <i>Surface</i> | <i>Basic Clearance</i> | + | <i>Voltage Adder</i> | + | <i>Additional Adders</i> | = | <i>Clearance</i> |
|-----|----------------------------|------------------------|---|----------------------|---|--------------------------|---|------------------|
| 9. | <i>Open Ground</i> | 18.5 ft. | + | 0.7 ft. | + | ft. | = | 19.2 ft. |
| 10. | <i>Roads</i> | 18.5 ft. | + | 0.7 ft. | + | ft. | = | 19.2 ft. |
| 11. | <i>(no RR crossings)</i> | ft. | + | ft. | + | ft. | = | ft. |
| 12. | <i>(no water surfaces)</i> | ft. | + | ft. | + | ft. | = | ft. |

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Phase Conductors:

13. Code Word: T2 Penguin Size: 2 4/0 Stranding: 2-6/1 Material: ACSR

Shield Wire(s):

14. Size: 3/8" Stranding: 7 Material: EHS
15. Frequency of Shield Wire Grounding (if applicable): At each structure

Typical Insulators

| | <i>Post Type</i> | <i>Suspension Type</i> | |
|-----|-----------------------------|--------------------------------------|---------------------------------|
| | | <i>Tan. / Ang. Single Piece Unit</i> | <i>Strain Single Piece Unit</i> |
| 16. | <i>Manufacturer</i> | Ohio Brass | Ohio Brass |
| 17. | <i>Manufacturer</i> | Ohio Brass | Ohio Brass |
| 18. | <i>Catalog number</i> | 80S0690600 or Equivalent | S025036S2010 or Equivalent |
| 19. | <i>Dry Flashover</i> | 230 kV | 385 kV |
| 20. | <i>Wet Flashover</i> | 180 kV | 365 kV |
| 21. | <i>Impulse Flashover, +</i> | 360 kV | 635 kV |
| 22. | <i>Impulse Flashover, -</i> | 415 kV | 620 kV |

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Typical Structures:

23. Structures Typically are: Wood Poles
 24. Typical Height After Installation: 56.5-74.5 ft.

Typical Wood Pole:

25. Species: Pacific Coast Douglas Fir Treatment: Penta Class: 1-H2 Length: 65-85 ft.

Steel Structures:

26. Steel Pole or Tower Material: N/A
 27. H-Frame Structure Bracing Type: N/A Spacing Between H-Frame Poles: N/A ft.
 28. Support Arm Type: N/A Material: N/A Dimensions: N/A
 29. Guys are: Insulated Guy Markers are: Orange

SECOND TRANSMISSION CIRCUIT (if applicable)

30. Name of Owner: N/A
 31. Name or Circuit Number of Line: _____
 32. If Franchised Separately, Docket Number of Order Granting Franchise: _____
 33. Maximum *Capable of Operating* Voltage: _____ Nominal Operating Voltage: _____

Vertical Overhead Clearance Requirement* for the Phase Conductors

| | <i>Surface</i> | <i>Basic Clearance</i> | + | <i>Voltage Adder</i> | + | <i>Additional Adders</i> | = | <i>Clearance</i> |
|-----|--------------------|------------------------|---|----------------------|---|--------------------------|---|------------------|
| 34. | <i>Open Ground</i> | ft. | + | ft. | + | ft. | = | ft. |
| 35. | <i>Roads</i> | ft. | + | ft. | + | ft. | = | ft. |
| 36. | <i>Railroads</i> | ft. | + | ft. | + | ft. | = | ft. |
| 37. | <i>Water</i> | ft. | + | ft. | + | ft. | = | ft. |

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Phase Conductors:

35. Code Word: _____ Size: _____ Stranding: _____ Material: _____

Typical Insulators

| | <i>Post Type</i> | <i>Suspension Type</i> | |
|-----|-----------------------------|-----------------------------------------|------------------------------------|
| | | <i>Tan. / Ang.</i> (<i>select</i>) | <i>Strain</i> (<i>select</i>) |
| 36. | <i>Manufacturer</i> | | |
| 37. | <i>Catalog number</i> | | |
| 38. | <i>Dry Flashover</i> | kV | kV |
| 39. | <i>Wet Flashover</i> | kV | kV |
| 40. | <i>Impulse Flashover, +</i> | kV | kV |
| 41. | <i>Impulse Flashover, -</i> | kV | kV |
| 42. | | | |

43. Support Arm Type: _____ Material: _____ Dimensions: _____

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DISTRIBUTION UNDERBUILD (if applicable)

44. Name of Owner: Interstate Power and Light Comany
45. Nominal Voltage: 7.2 KV
46. Number of Distribution Phase Conductors: 1
47. Neutral is Multi-grounded Multi-Grounding Frequency: At each structure, except dead ends

Vertical Overhead Clearance Requirement* for the Phase Conductors

| | <i>Surface</i> | <i>Basic Clearance</i> | + | <i>Additional Adders</i> | = | <i>Clearance</i> |
|-----|----------------------------|------------------------|---|--------------------------|---|------------------|
| 48. | <i>Open Ground</i> | 18.5 ft. | + | ft. | = | 18.5 ft. |
| 49. | <i>Roads</i> | 18.5 ft. | + | ft. | = | 18.5 ft. |
| 50. | <i>(no RR crossings)</i> | ft. | + | ft. | = | ft. |
| 51. | <i>(no water surfaces)</i> | ft. | + | ft. | = | ft. |

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Vertical Overhead Clearance Requirement* for the Neutral Conductor (if applicable)

| | <i>Surface</i> | <i>Basic Clearance</i> | + | <i>Additional Adders</i> | = | <i>Clearance</i> |
|-----|----------------------------|------------------------|---|--------------------------|---|------------------|
| 52. | <i>Open Ground</i> | 15.5 ft. | + | ft. | = | 15.5 ft. |
| 53. | <i>Roads</i> | 15.5 ft. | + | ft. | = | 15.5 ft. |
| 54. | <i>(no RR crossings)</i> | ft. | + | ft. | = | ft. |
| 55. | <i>(no water surfaces)</i> | ft. | + | ft. | = | ft. |

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

56. Support Arm Type: Crossarm Material: Wood Dimensions: 8' x 4.625" x 3.625"

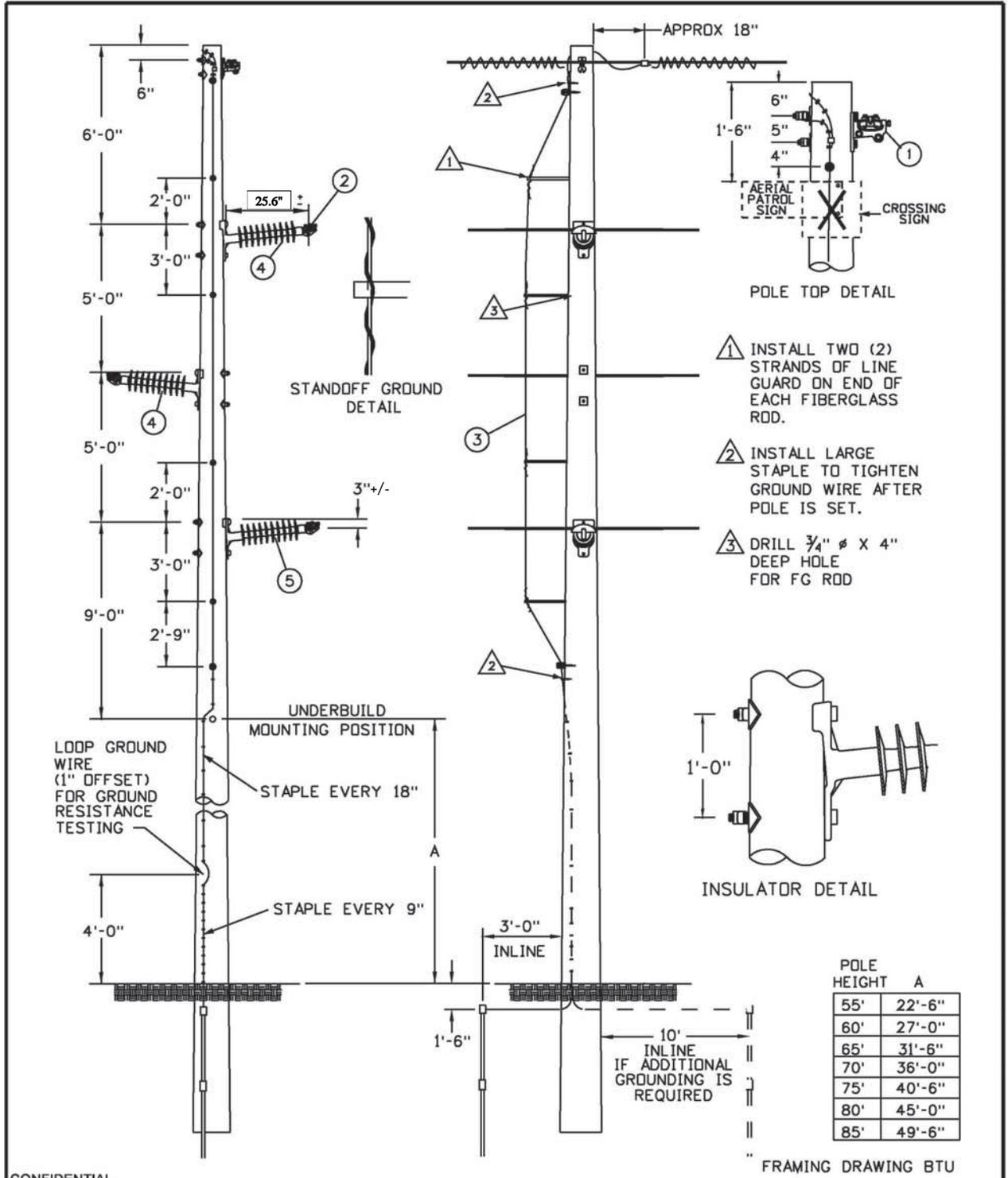
TYPICAL STRUCTURE DRAWING

57. A drawing of a typical tangent structure, as described in the instructions, has been attached.

ADDITIONAL DRAWINGS REQUIRED FOR NEW CONSTRUCTION

58. Angle structures will be used in this segment of line. A drawing of a typical angle structure, as described in the instructions, has been attached.
59. Dead-end structures will be used in this segment of line. A drawing of a typical dead-end structure, as described in the instructions, has been attached.
60. There are no grain bins along this segment of line. Drawings showing the clearance envelope for each grain bin in relation to the proposed line are not required.

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ITC Midwest

| NO. | DATE | REVISION | BY | CHK'D | APP'VD |
|-----|----------|----------------------|-----|-------|--------|
| 3 | 10-17-08 | CHANGE TO ITC BORDER | RAH | | |
| 2 | 11-10-05 | GROUNDING CHANGES | RT | | |
| 1 | 02-13-04 | STANDARD CHANGES | SDL | | DD |
| 0 | 09-01-99 | ORIGINAL ISSUE | SJK | | |



69KV TANGENT W/ HPI & STANDOFF GND

Scale: NONE

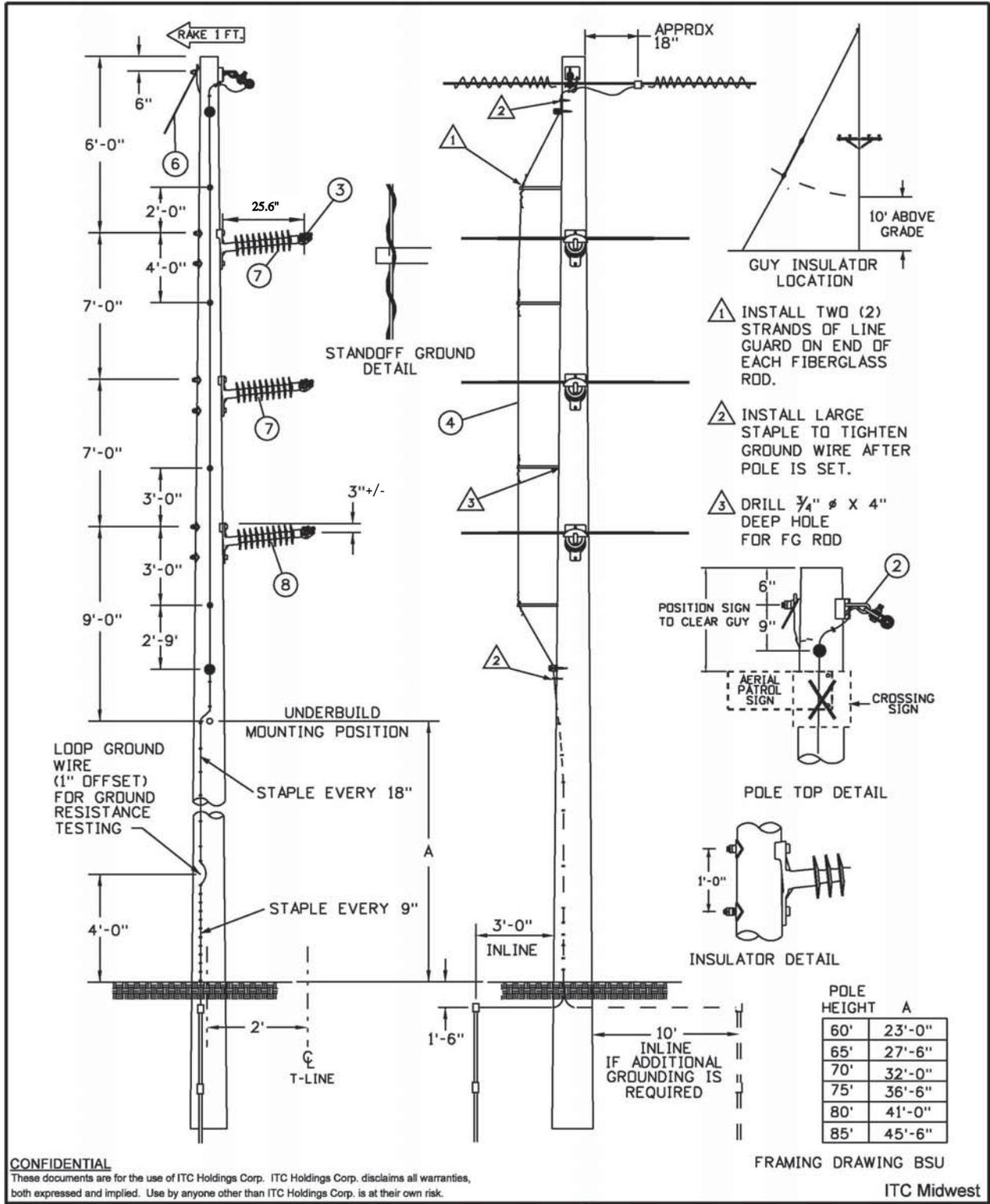
DWG. NO.

69TGSP

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| NO. | DATE | REVISION | BY | CHK'D | APP'D |
|-----|----------|----------------------|-----|-------|-------|
| 3 | 10-17-08 | CHANGE TO ITC BORDER | RAH | | |
| 2 | 11-10-05 | GROUNDING CHANGES | RT | | |
| 1 | 02-13-04 | STANDARD CHANGES | SDL | | DO |
| 0 | 09-01-99 | ORIGINAL ISSUE | SJK | | |



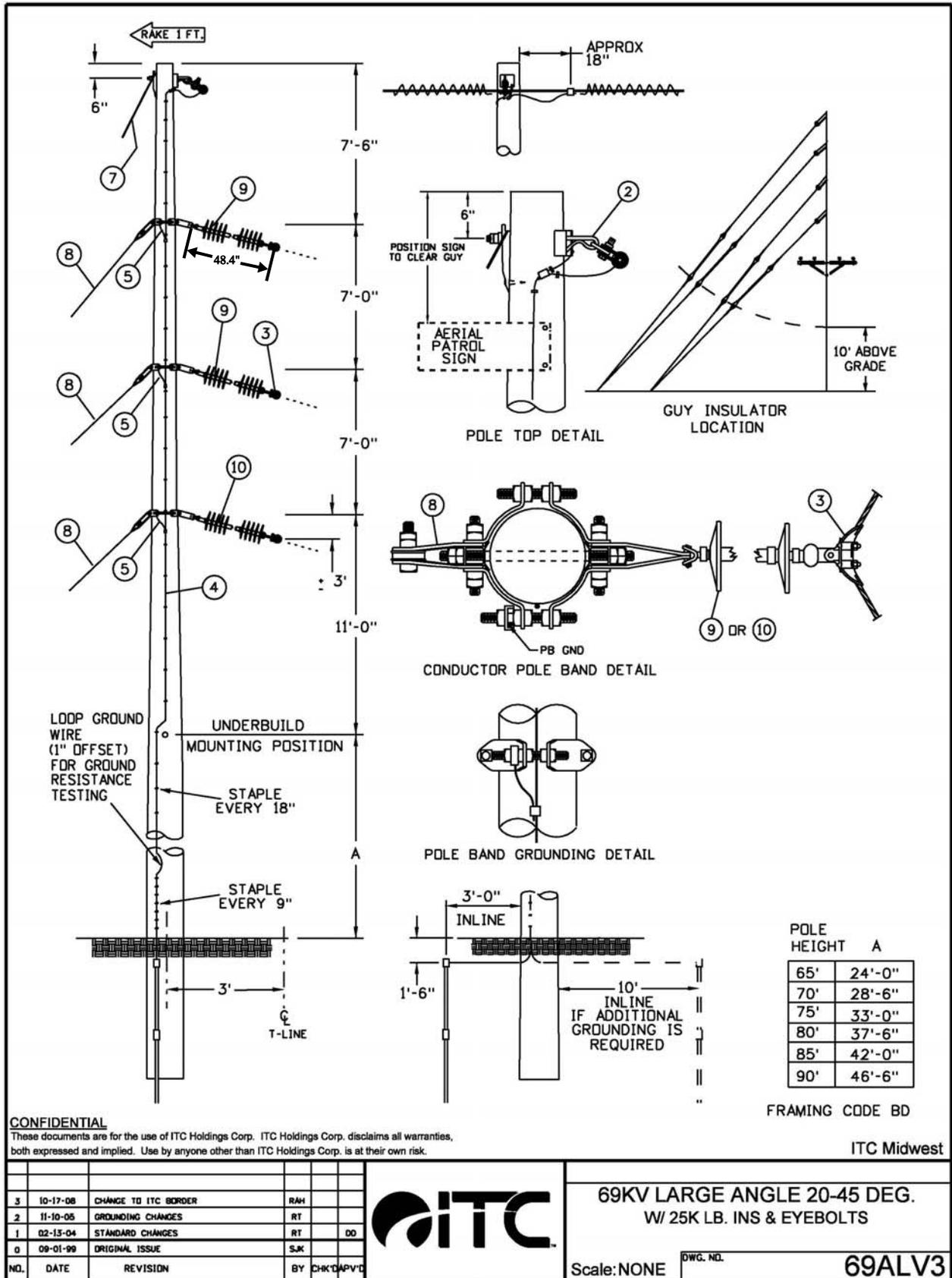
69KV SMALL ANGLE 1-5 DEG. W/ HPI & STANDOFF GROUND

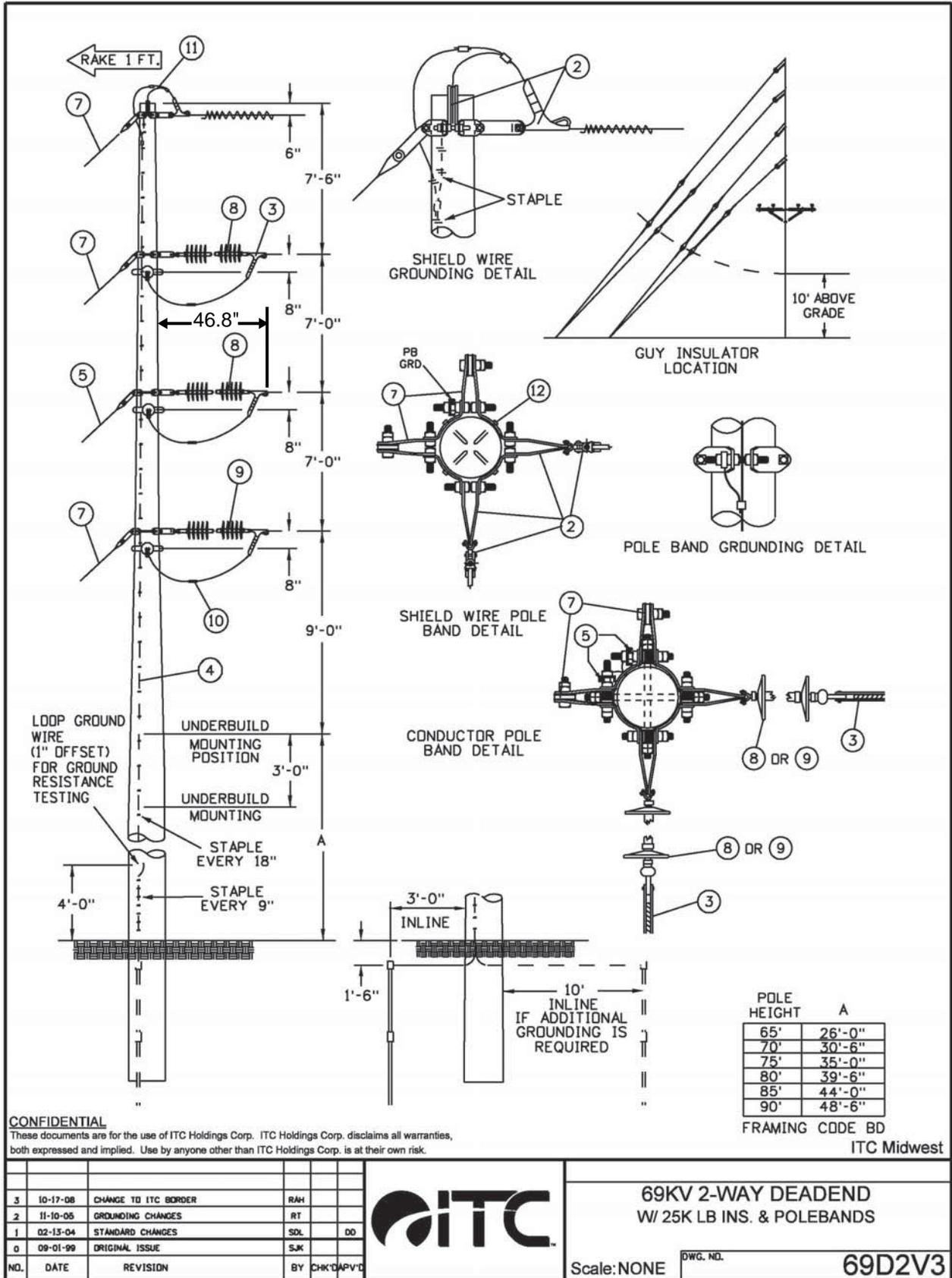
Scale: NONE DWG. NO. **69ASGP1**

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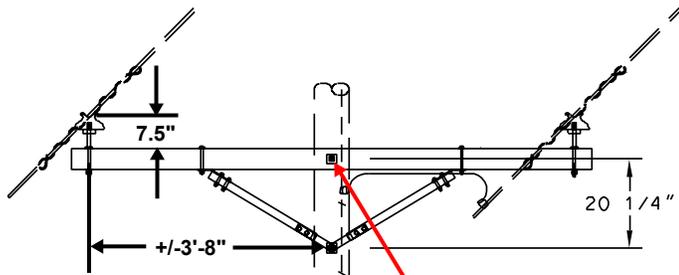




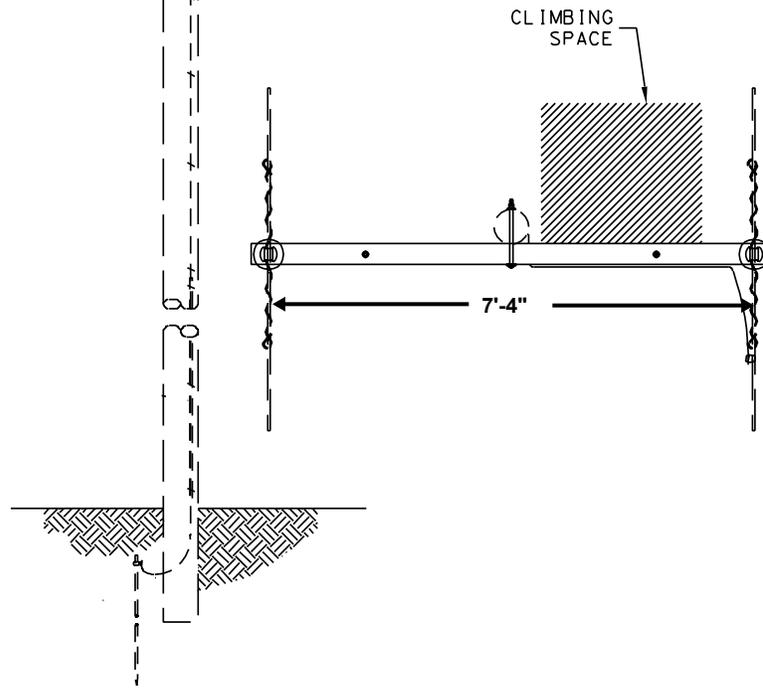
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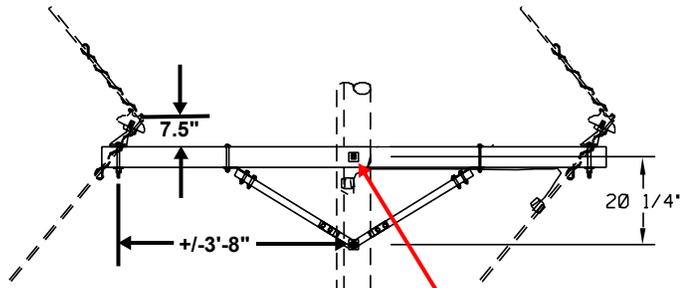
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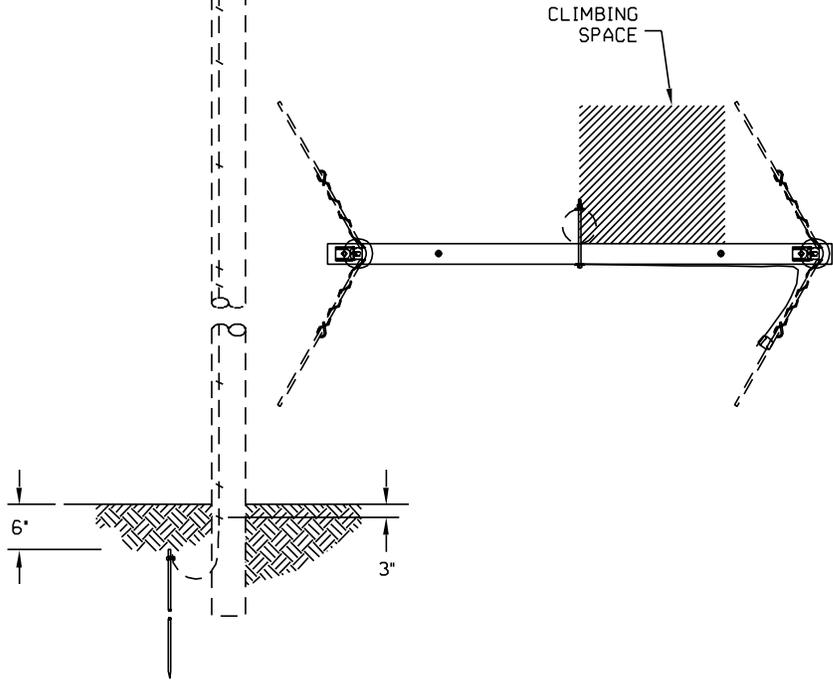
This Point Corresponds to Underbuild Attachment Point Shown on ITC Drawing 69TGSP



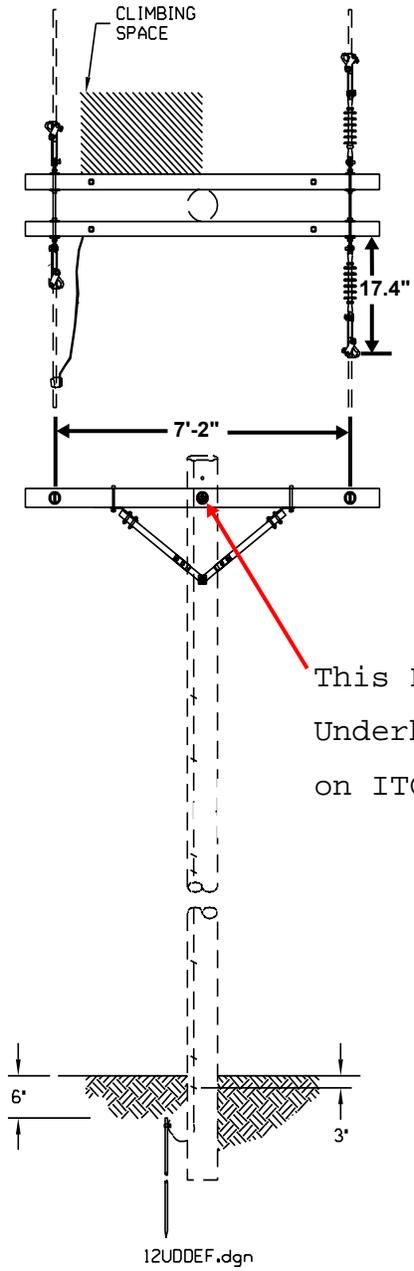
12UTG30.dgn



This Point Corresponds to Underbuild Attachment Point Shown on ITC Drawing 69ASGP1



12USAF30.dgn



This Point Corresponds to Underbuild Attachment Point Shown on ITC Drawing 69D2V3

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