Gopher to Badger Link

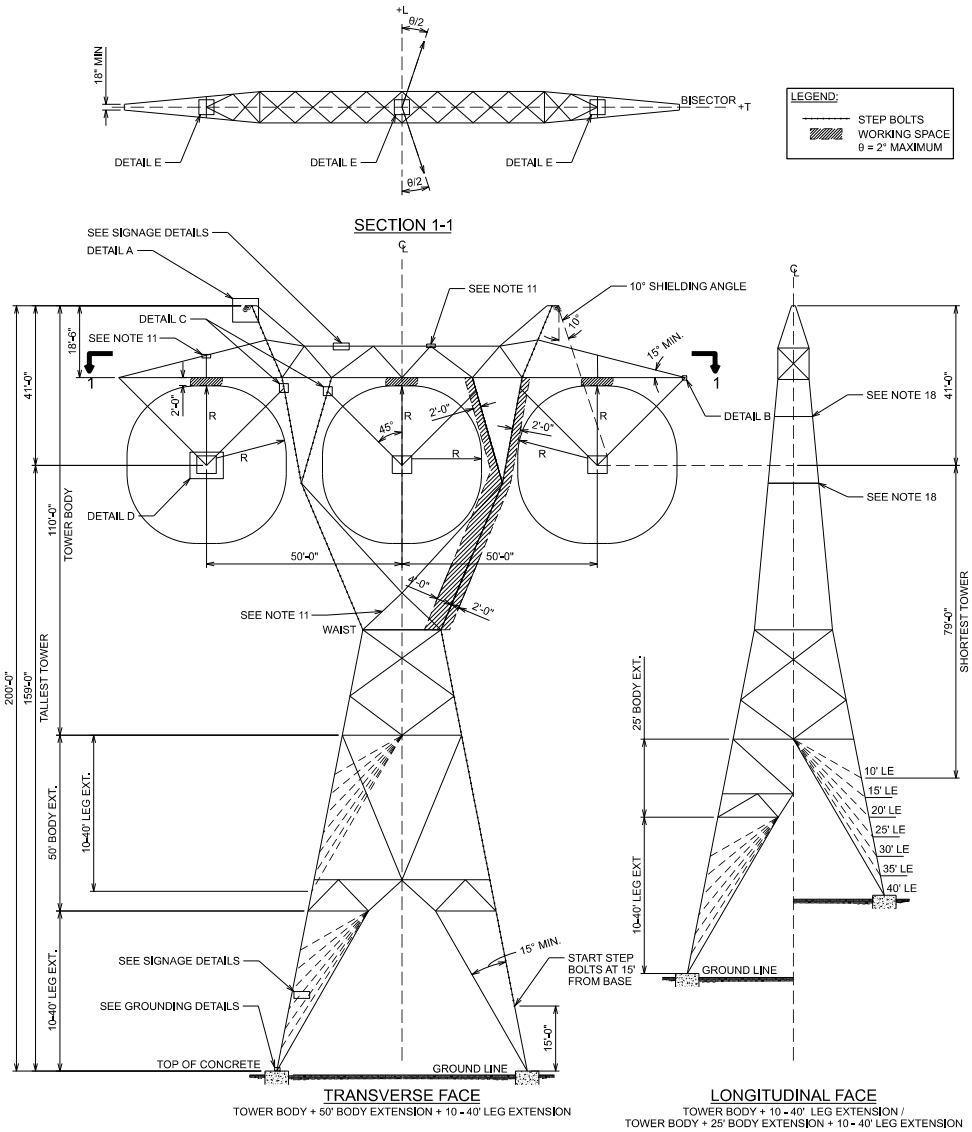
Appendix B

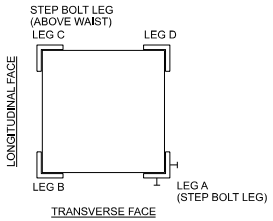
Technical Diagrams

Gopher to Badger Link

Appendix B-1

Segment 1 – Xcel Energy





TOWER DESIGN NOTES

TABLE 1: REQUIRED CLEARANCES

Weather Case	Electrical Parameter	Clearance to Tower Steel (R)	Criteria
60° F, No Wind	Live Line Minimum Approach Distance: MAD Tools, Phase-Ground	13' *Note 1	OSHA Method, TOV=2.0; Max. Elevation=5000'
60° F, No Wind	Required Air Gap to Surface of Tower	13' *Note 2	Switching Surge Insulation

*NOTES:
1. CLEARANCE MEASURED FROM ENERGIZED HOT BOX TO WORKING SPACE.
2. CLEARANCE MEASURED FROM ENERGIZED HOT BOX TO SURFACE OF SUPPORTING STEEL (OUTSTANDING LEGS AND STEP BOLTS).

DRAWING REFERENCE

REV	DATE	WBS 4	REVISION DESCRIPTION

ISSUED BY ENGINEERING DEPT FOR:

THIS MAP/DOCUMENT IS A TOOL TO ASSIST EMPLOYEES IN THE PERFORMANCE OF THEIR JOBS. YOUR PERSONAL SAFETY IS PROVIDED FOR BY USING SAFETY PRACTICES, PROCEDURES AND EQUIPMENT AS DESCRIBED IN THE SAFETY TRAINING PROGRAMS, MANUALS AND SPARS.
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LINE MASTER DRAWING 765 kV

LOAD & DESIGN - TANGENT - LATTICE - S.C.
ST, V-STRING SUSPENSION, HORIZONTAL, 0-2 DEGREE

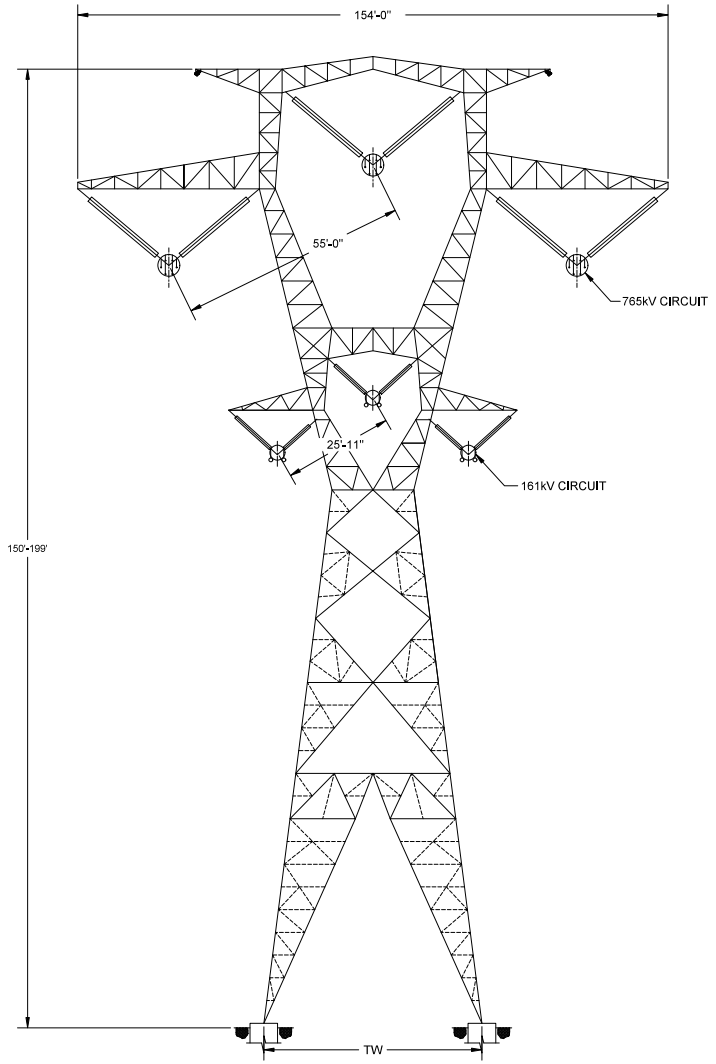
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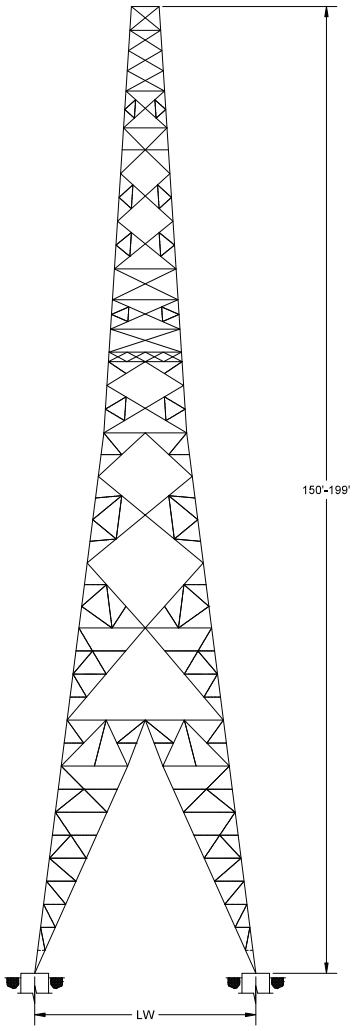
REV

Appendix B-2

Segment 2 – Dairyland Power Cooperative



FRONT ELEVATION



SIDE ELEVATION

NOTES:

1. STRUCTURE DIMENSIONS:
   ABOVE GROUND HEIGHT TYPICAL RANGE: 150 FT TO 199 FT
   FOOTPRINT SIZE (TWxLW): 45 FT x 45 FT TO 60 FT x 60 FT
   TYPICAL STRUCTURE WIDTH: 154 FT
2. TYPICAL FOUNDATION DEPTH: 30 FT TO 50 FT

PRELIMINARY
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A	07/30/2026	ISSUE FOR PRELIMINARY	RN	ZK	TRK	S&L

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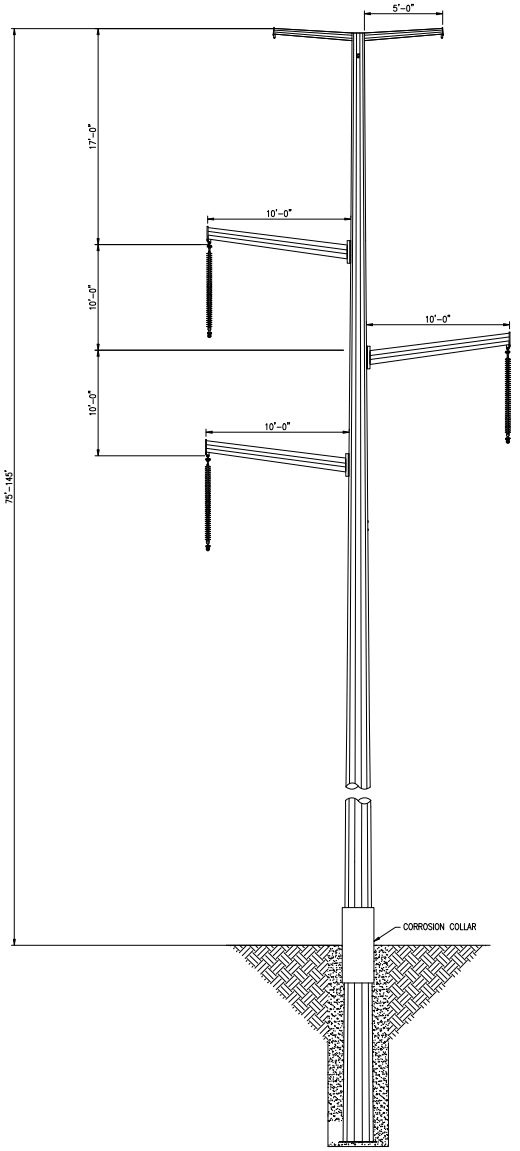
DAIRYLAND POWER COOPERATIVE
La Crosse, Wisconsin

P-1 765/161KV TRANSMISSION LINE
MARION - BELL CENTER
765/161KV TYPICAL DOUBLE CIRCUIT TANGENT

765/161KV TANGENT SKETCH

Appendix B-3

161 kV – Dairyland Power Cooperative



FRONT ELEVATION

NOTES:

1. STRUCTURE DIMENSIONS:
   ABOVE GROUND HEIGHT TYPICAL RANGE:
   161KV TIE-IN AT ADAMS AND HARMONY: 75 FT TO 145 FT
   Q-9 REROUTE: 75 FT TO 145 FT
2. TYPICAL EMBEDMENT DEPTH: 20 FT TO 30 FT

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GridLiance HEARTLAND

DAIRYLAND POWER COOPERATIVE
La Crosse, Wisconsin

P-1 765/161KV TRANSMISSION LINE
MARION - BELL CENTER
161KV TYPICAL SINGLE CIRCUIT TANGENT

161KV TANGENT SKETCH