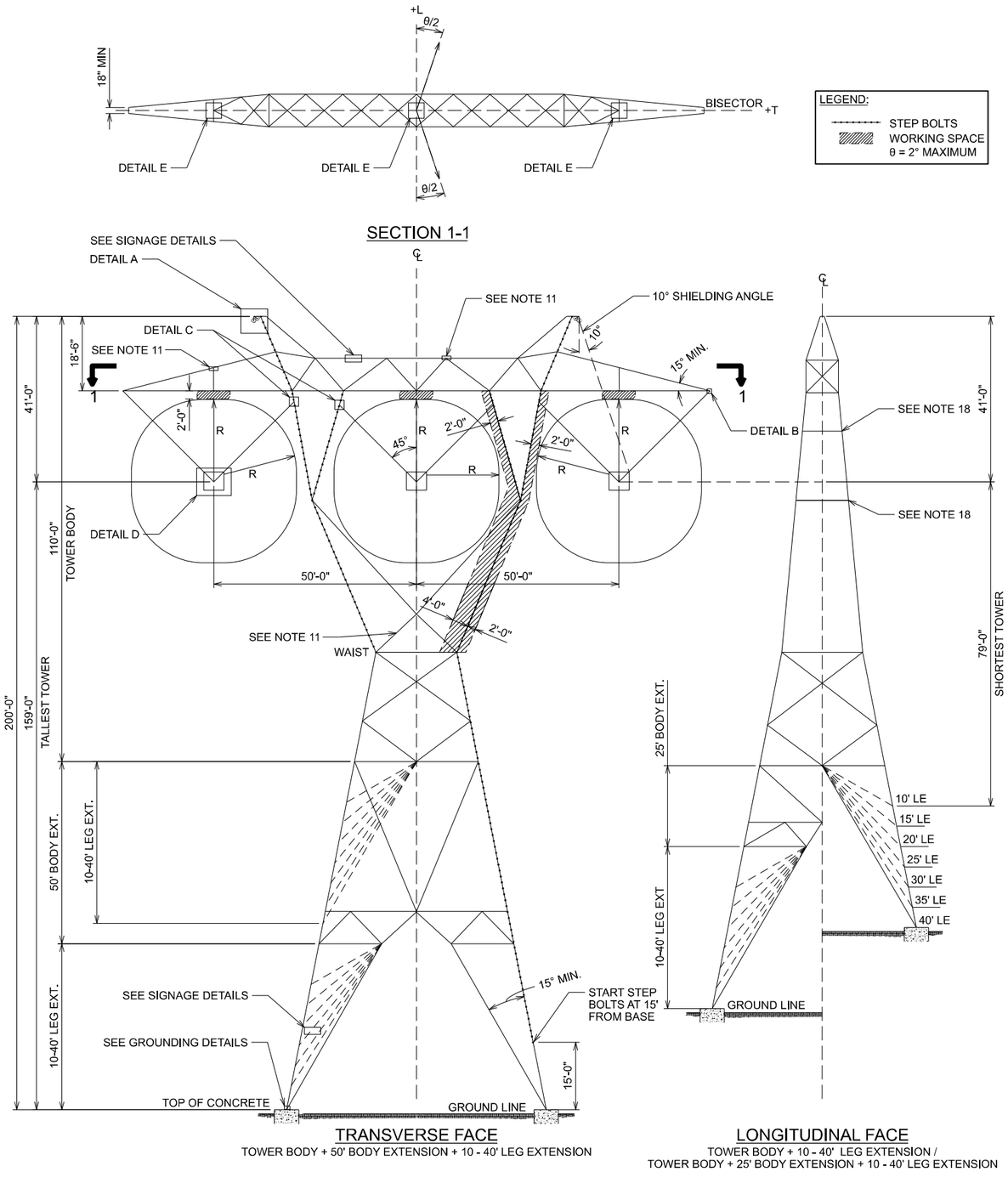
Gopher to Badger Link

Appendix B

Technical Diagrams

Appendix B-1

Segment 1 – Xcel Energy

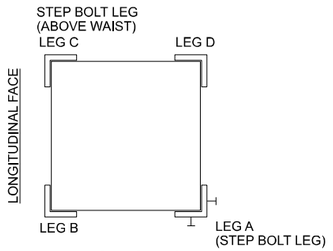


TRANSVERSE FACE

TOWER BODY + 50' BODY EXTENSION + 10 - 40' LEG EXTENSION

LONGITUDINAL FACE

TOWER BODY + 10 - 40' LEG EXTENSION /
TOWER BODY + 25' BODY EXTENSION + 10 - 40' LEG EXTENSION



TRANSVERSE FACE

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

Xcel Energy®

SCALE NONE

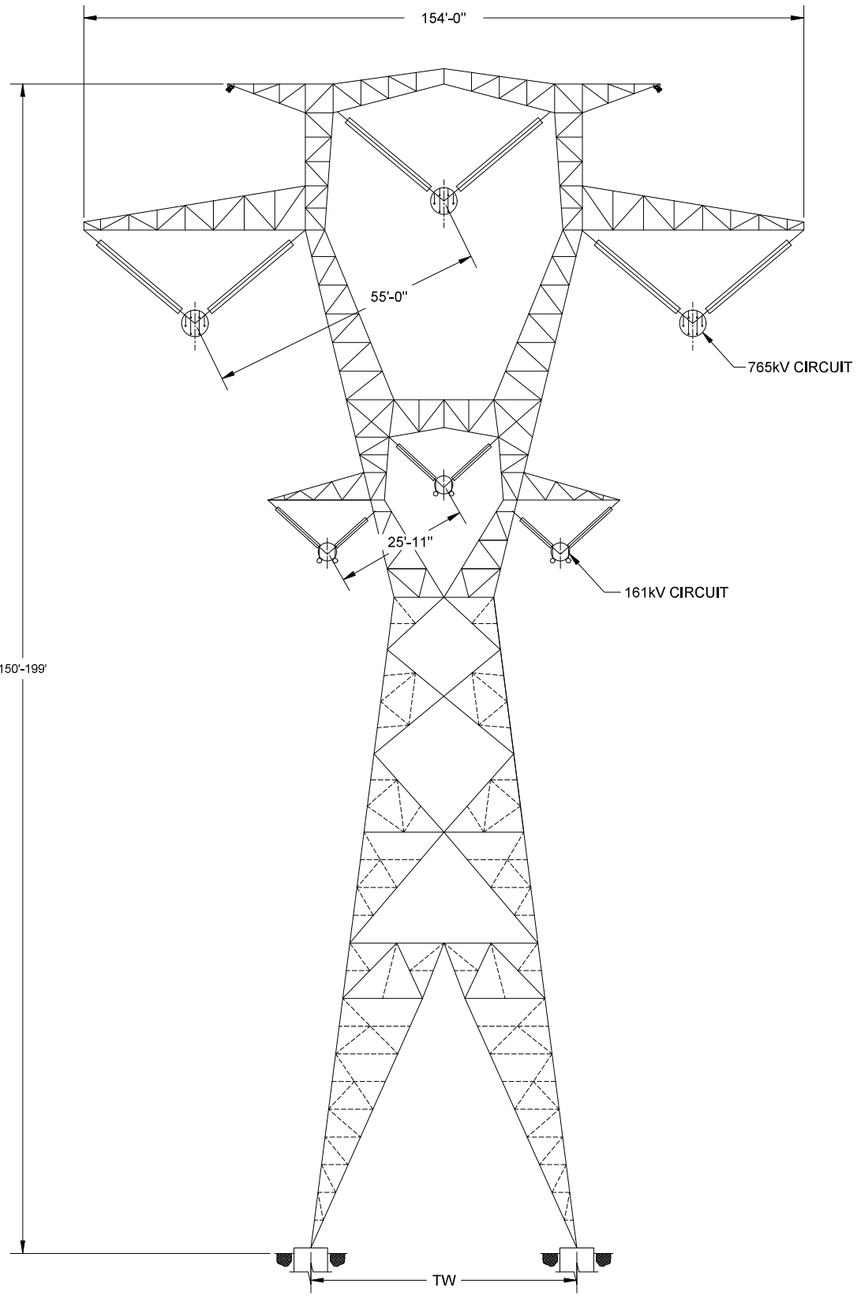
REV

Appendix B-2

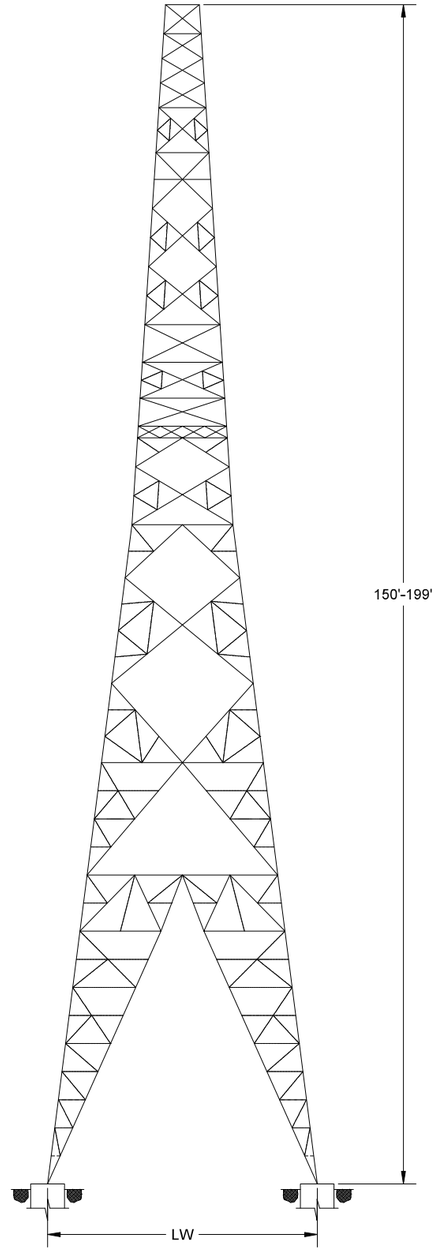
Segment 2 – Dairyland Power Cooperative

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



FRONT ELEVATION



SIDE ELEVATION

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REVD	APPR	COMP
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A	07/30/2026	ISSUE FOR PRELIMINARY	RN	ZK	TRK	S&L

SCALE: NONE

PREP: RN CHKD: ZK
APPD: TRK DATE: 07/30/2026

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Sargent & Lundy

GridLiance HEARTLAND

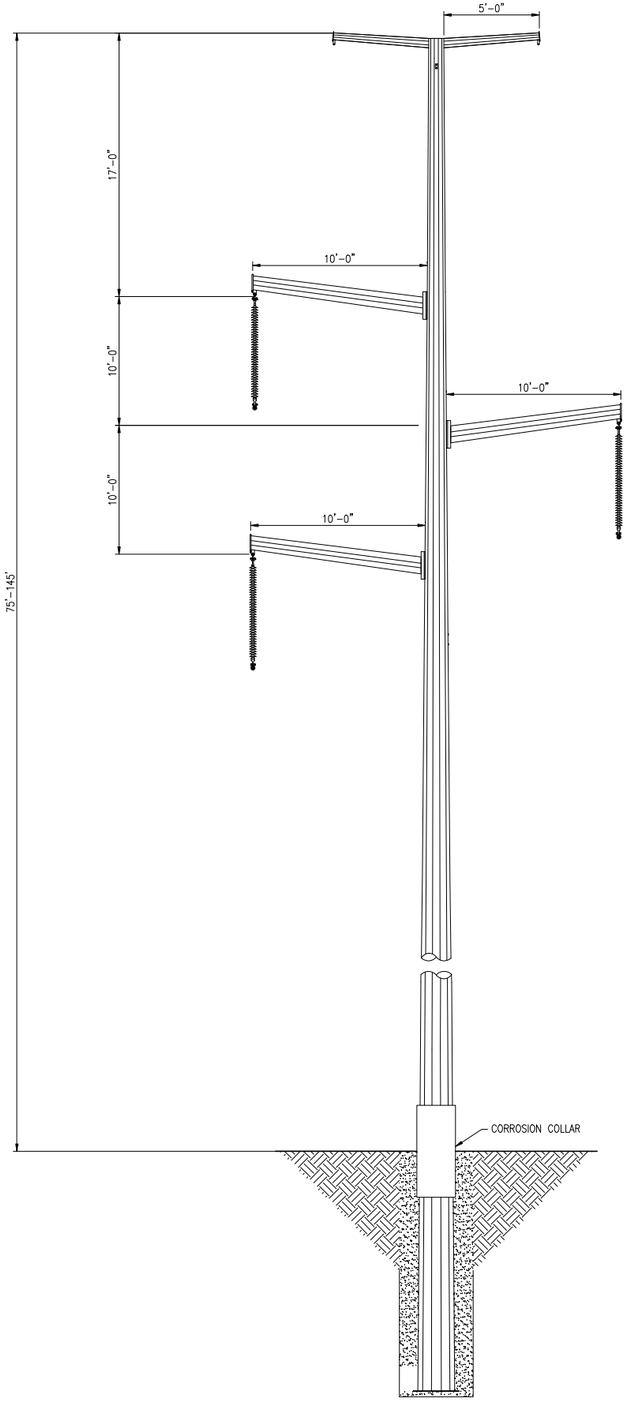
DAIRYLAND POWER COOPERATIVE
La Crosse, Wisconsin

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

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REVD	APPR	COMP
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A	07/30/2026	ISSUE FOR PRELIMINARY	AJG	ZK	TRK	S&L

SCALE: NONE

PREP: AJG CHKD: ZK
APPD: TRK DATE: 07/30/2026

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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