

APPENDIX E – Technical Drawings

Substation Preliminary Design

161/34.5 kV Substation Ultimate Electrical Plan.....	Page 3
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Representative Photo of Collection Substation.....	Page 5
Representative Photo of Collection Substation.....	Page 6
Representative Photo of Collection Substation.....	Page 7

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CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.



Sargent & Lundy
55 EAST MONROE ST., CHICAGO, ILL.

DODGE COUNTY WIND, LLC
161/34.5 kV SUBSTATION
ULTIMATE ELECTRICAL PLAN

13666-084-E1-0100

HOLD NOTES:

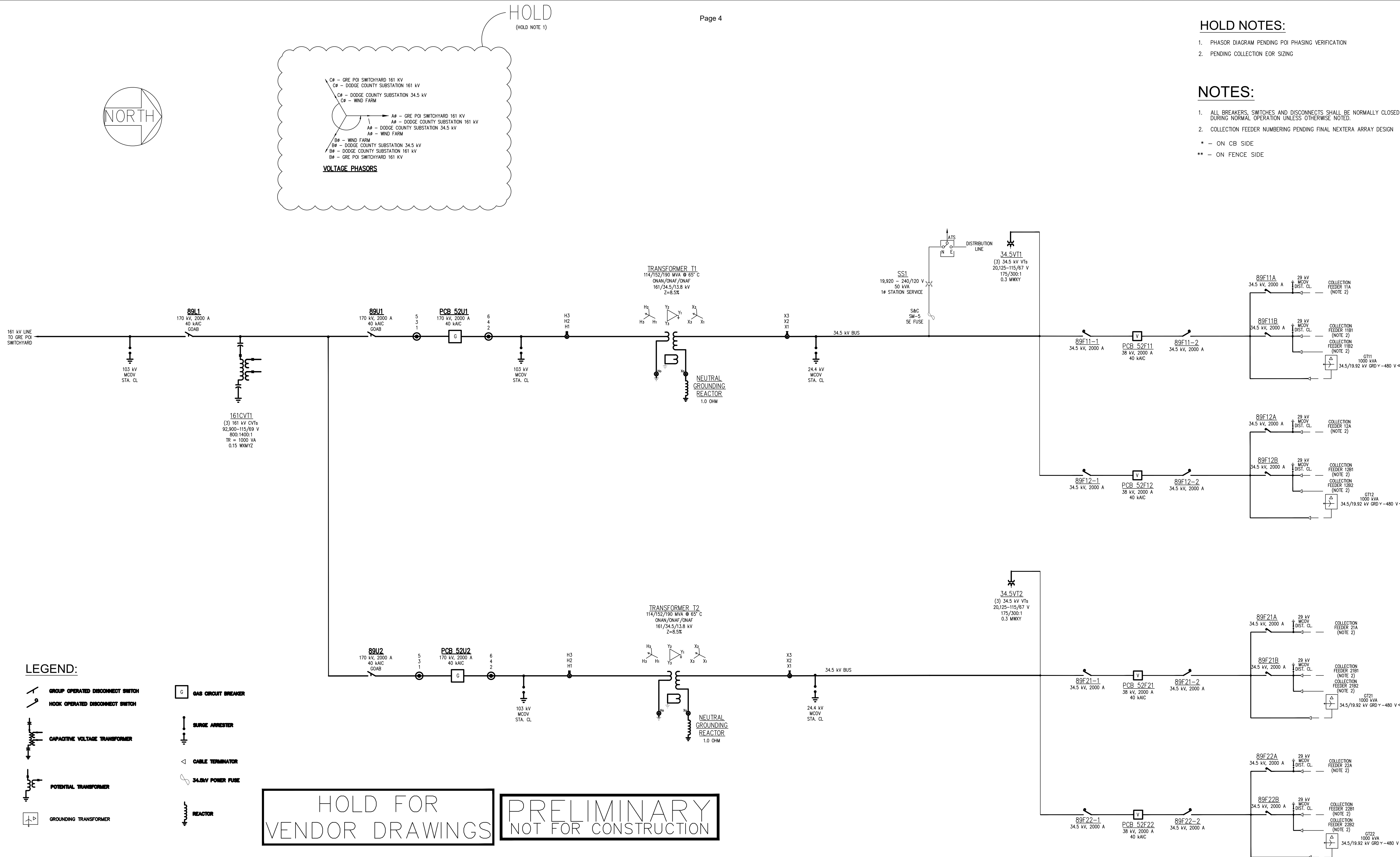
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2. PENDING COLLECTION EOR SIZING

NOTES:

1. ALL BREAKERS, SWITCHES AND DISCONNECTS SHALL BE NORMALLY CLOSED (NC) DURING NORMAL OPERATION UNLESS OTHERWISE NOTED.
2. COLLECTION FEEDER NUMBERING PENDING FINAL NEXTERA ARRAY DESIGN

* - ON CB SIDE

** - ON FENCE SIDE

[illegible]

Representative Photo of Collection Substation



Exact configuration or technology may vary from the representative photo.

Representative Photo of Collection Substation



Exact configuration or technology may vary from the representative photo.

Representative Photo of Collection Substation



Exact configuration or technology may vary from the representative photo.

Pole Spotting Plans

Proposed Pole Spotting Plan – 66 Ft Road ROW.....Page 9

Proposed Pole Spotting Plan – 90 Ft Road ROW.....Page 10

Proposed Pole Spotting Plan – 100 Ft Road ROW..... Page 11



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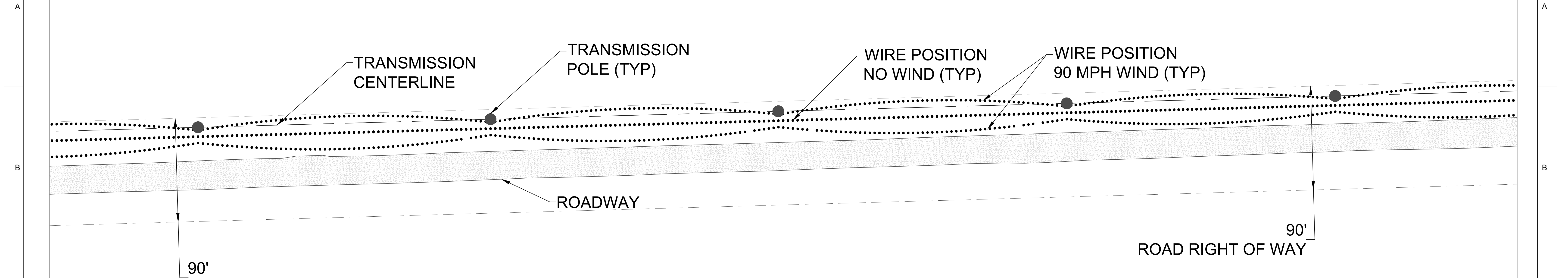
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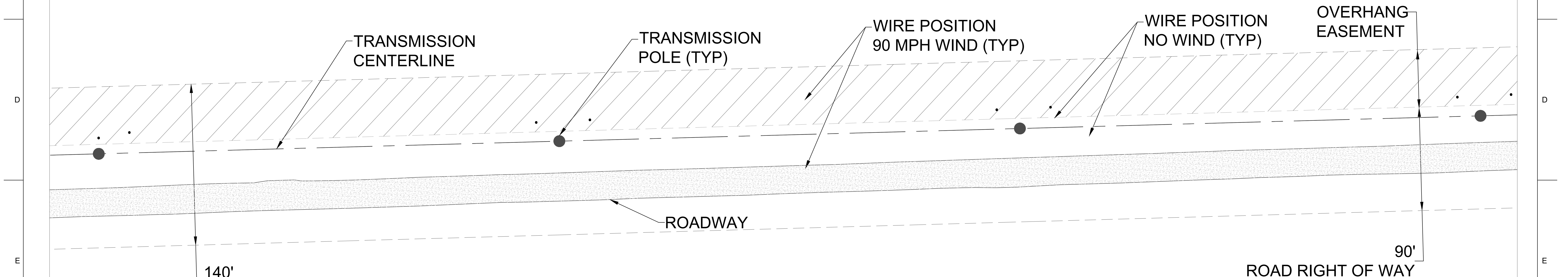
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THAN SARGENT & LUNDY IS NOT THE
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13139-053-T1-0950



PLAN VIEW
500' SPAN LENGTHS
NO OVERHANG EASEMENT (SEE NOTE 3)




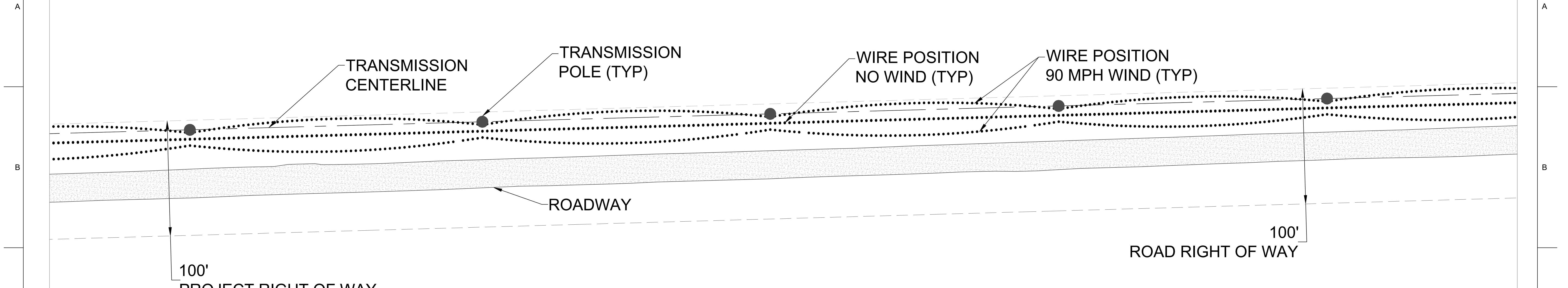
PLAN VIEW
800' SPAN LENGTHS
WITH OVERHANG EASEMENT (SEE NOTE 4)

NOTES:

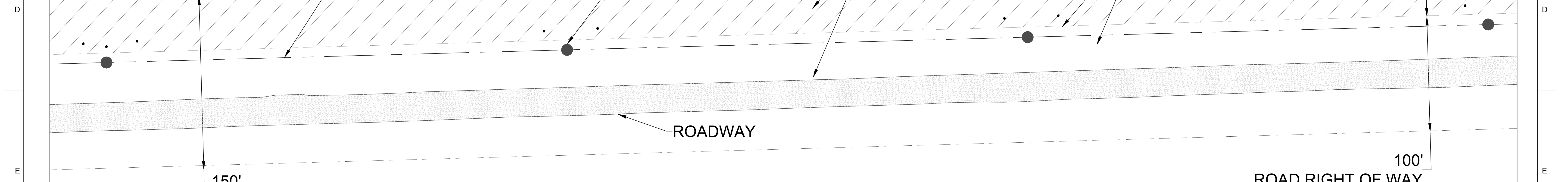
1. TRANSMISSION LINE POLE LOCATIONS ARE CONCEPTUAL AND SHOWN FOR A TYPICAL LOCATION IN ROAD RIGHT OF WAY. THE POLE LOCATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN.
2. SETBACK OF POLE LOCATIONS FROM EDGE OF ROAD RIGHT-OF-WAY WILL VARY AS REQUIRED TO MEET NESC CLEARANCE REQUIREMENTS, AVOID CONFLICT WITH EXISTING UTILITIES, AND COMPLY WITH UTILITY ACCOMMODATION POLICIES.
3. REFER TO CORRESPONDING CROSS SECTION 2 ON DRAWING 13139-053-T1-0901 FOR MORE DETAILS.
4. REFER TO CORRESPONDING CROSS SECTION 2B ON DRAWING 13139-053-T1-0901B FOR MORE DETAILS.

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PLAN VIEW
500' SPAN LENGTHS
NO OVERHANG EASEMENT (SEE NOTE 3)




PLAN VIEW
800' SPAN LENGTHS
WITH OVERHANG EASEMENT (SEE NOTE 4)

NOTES:

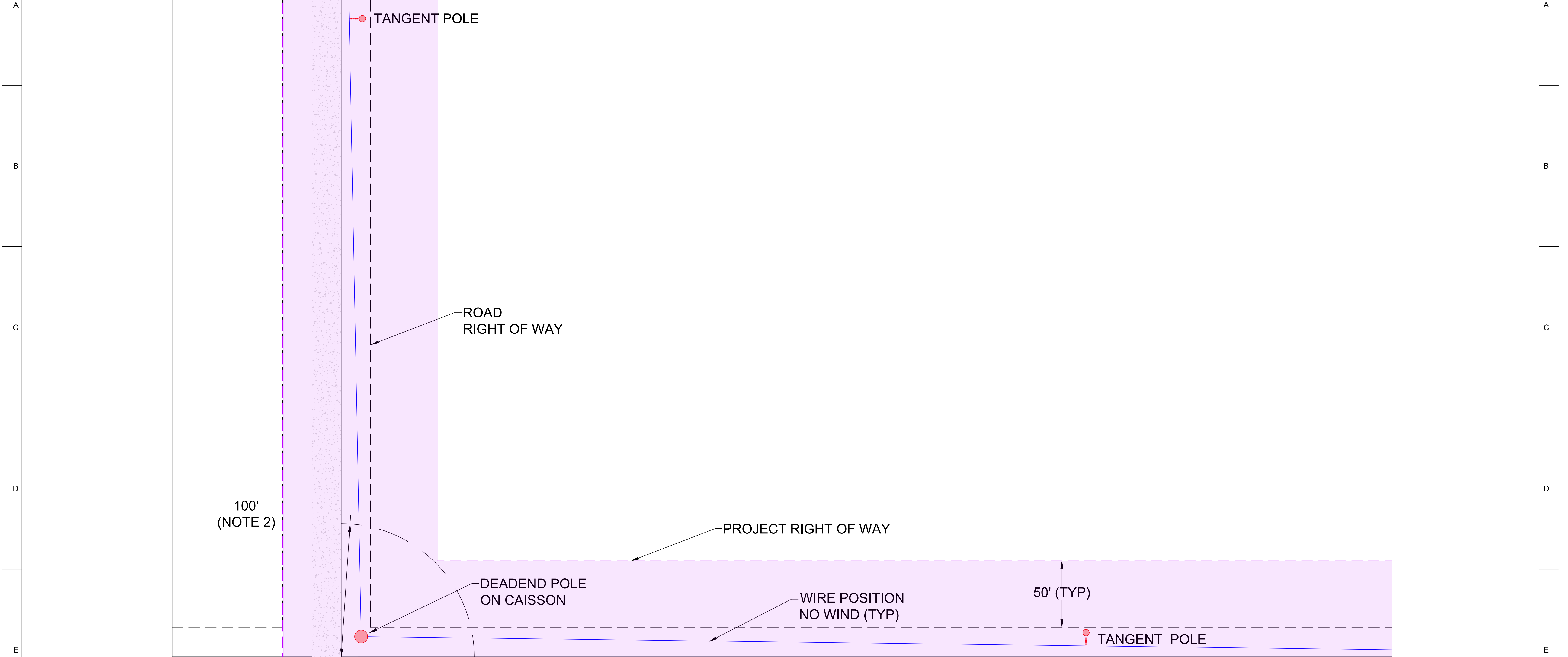
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3. REFER TO CORRESPONDING CROSS SECTION 3 ON DRAWING 13139-053-T1-0902 FOR MORE DETAILS.
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Corner Configurations and Project Right-of-Way

Proposed Corner Configuration: Single Deadend – Road ROW.....	Page 13
Proposed Corner Configuration: Single Deadend – Road ROW T-Intersection.....	Page 14
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Proposed Corner Configuration: Composite Project ROW.....	Page 17
Conceptual Corridor: Project Right Of Way.....	Page 18
Conceptual Corridor: Design Completion Right Of Way.....	Page 19



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- F 2. SETBACK OF POLE LOCATION FROM ROAD INTERSECTIONS WILL VARY AS REQUIRED TO MEET NESC CLEARANCE REQUIREMENTS, AVOID CONFLICT WITH EXISTING UTILITIES, AND COMPLY WITH UTILITY ACCOMMODATION POLICIES.

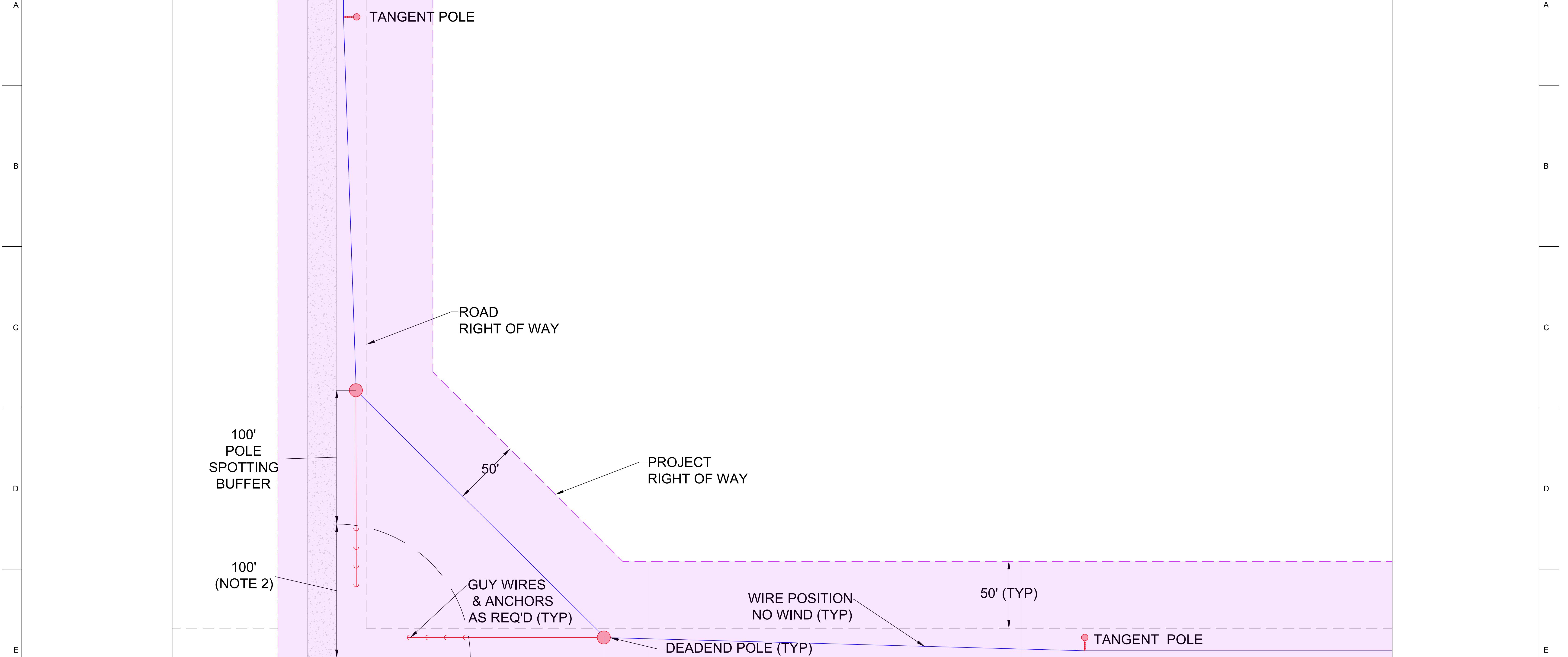
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											<div>Sargent & Lundy</div>
											<div>DODGE COUNTY WIND, LLC</div> <div>PROPOSED CORNER CONFIGURATION</div> <div>SINGLE DEADEND - PROJECT ROW - T INTERSECTION</div>
											13139-053-T1-SK004




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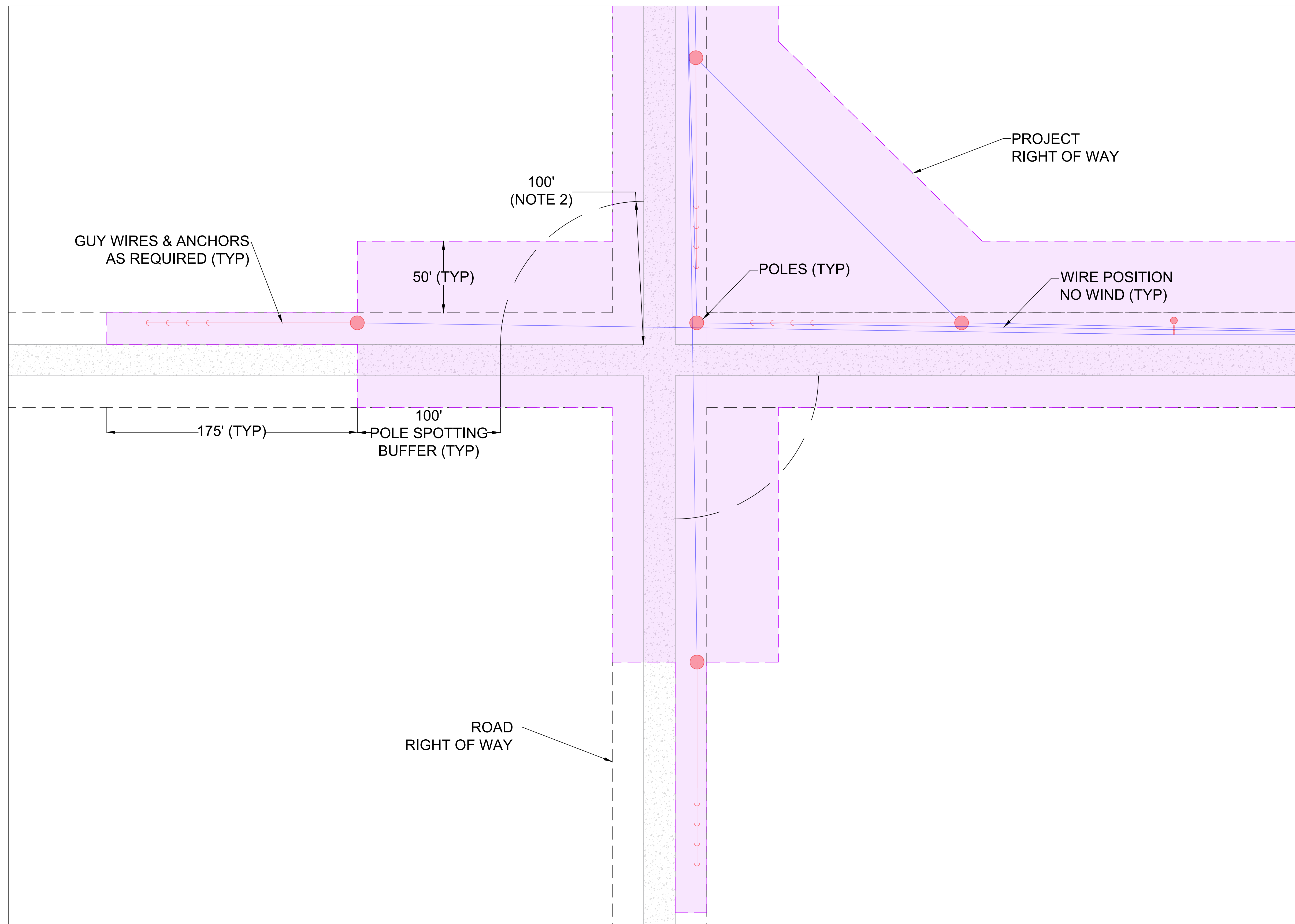
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NOTES:

1. A COMPOSITE PROJECT RIGHT OF WAY IS SHOWN COMBINING THE PROJECT RIGHT OF WAYS FOR ALL THE PROPOSED CORNER CONFIGURATIONS IN ROAD RIGHT OF WAY.
2. SETBACK OF POLE LOCATION FROM ROAD INTERSECTIONS WILL VARY AS REQUIRED TO MEET NESC CLEARANCE REQUIREMENTS, AVOID CONFLICT WITH EXISTING UTILITIES, AND COMPLY WITH UTILITY ACCOMMODATION POLICIES.

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DODGE COUNTY WIND, LLC
PROPOSED CORNER CONFIGURATION
COMPOSITE PROJECT ROW

13139-053-T1-SK005

DESIGN COMPLETE PROJECT
RIGHT OF WAY

WIRE POSITION

TRANSMISSION STRUCTURES

GUY WIRES & ANCHORS

ROADWAYS

- PROJECT RIGHT OF WAY

SINGLE DEADEND
CORNER CONFIGURATION

- ROADWAY (TYP)

DOUBLE DEADEND CORNER CONFIGURATION

PROJECT RIGHT OF WAY WITH
LANDOWNER OVERHANG EASEMENT

- GUY WIRES & ANCHORS
AS REQUIRED (TYP)

– WIRE POSITION
NO WIND (TYP)

PROJECT RIGHT OF WAY WITH NO LANDOWNER OVERHANG EASEMENT

— ROAD RIGHT OF WAY
(TYP)


FLYING TAP CORNER CONFIGURATION

– TRANSMISSION STRUCTURES (TYP)

— DOUBLE DEADEND
CORNER
CONFIGURATION

1. A CONCEPTUAL PROJECT CORRIDOR IS SHOWN TO ILLUSTRATE PROJECT RIGHT OF WAYS AFTER DESIGN COMPLETION FOR THE PROPOSED CORNER AND STRAIGHTAWAY CONFIGURATIONS IN ROAD RIGHT OF WAY. IT IS NOT A REPRESENTATION OF THE PROJECT ROUTE AND IS FOR REFERENCE ONLY.
2. SETBACK OF POLE LOCATION FROM ROAD INTERSECTIONS AND EDGE OF ROAD RIGHT OF WAY WILL VARY AS REQUIRED TO MEET NESC CLEARANCE REQUIREMENTS, AVOID CONFLICT WITH EXISTING UTILITIES, AND COMPLY WITH UTILITY ACCOMMODATION POLICIES.

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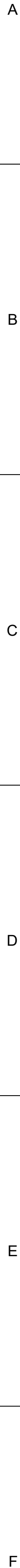


DODGE COUNTY WIND, LLC
CONCEPTUAL CORRIDOR
DESIGN COMPLETE PROJECT RIGHT OF WAY

13139-053-T1-SK007



Right-of-Way Typicals

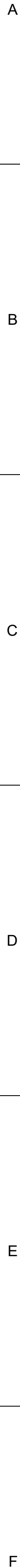
Proposed Cross Section – Road ROW: Typical Cross Section #1.....	Page 21
Proposed Cross Section – Road ROW: Typical Cross Section #1A.....	Page 22
Proposed Cross Section – Road ROW: Typical Cross Section #1B.....	Page 23
Proposed Cross Section – Road ROW: Typical Cross Section #2.....	Page 24
Proposed Cross Section – Road ROW: Typical Cross Section #2A.....	Page 25
Proposed Cross Section – Road ROW: Typical Cross Section #2B.....	Page 26
Proposed Cross Section – Road ROW: Typical Cross Section #3.....	Page 27
Proposed Cross Section – Road ROW: Typical Cross Section #3A.....	Page 28
Proposed Cross Section – Road ROW: Typical Cross Section #3B.....	Page 29
Proposed Cross Section – Transmission ROW: Typical Cross Section #6.....	Page 30
Proposed Cross Section – Road ROW: Typical Cross Section #5.....	Page 31



1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN ROAD ROW SHOWS TYPICAL STRUCTURE AT MAXIMUM SETBACK (10') FROM THE EDGE OF ROAD ROW. STRUCTURE CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY.
2. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN.

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1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN ROAD ROW SHOWS TYPICAL STRUCTURE AT MINIMUM SETBACK (2') FROM THE EDGE OF ROAD ROW. STRUCTURE CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY.
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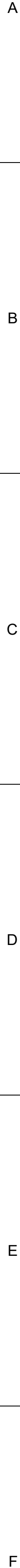
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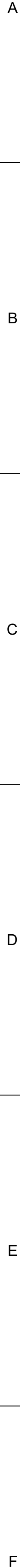
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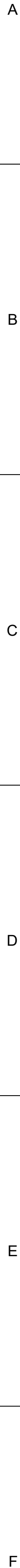


150'
PROJECT RIGHT OF WAY

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NOT FOR CONSTRUCTION



Sargent & Lundy



PRELIMINARY
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1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN ROAD ROW SHOWS TYPICAL STRUCTURE. STRUCTURE CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY.
2. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN.

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DODGE COUNTY WIND, LLC


PROPOSED CROSS SECTION - GRE SHARED LINE

TYPICAL CROSS SECTION #5

13139-053-T1-0904

Transmission Line Pole Structures


161 kV Single Circuit Delta Tangent Framing.....	Page 33
161 kV Single Circuit Vertical Tangent Framing.....	Page 34
161 kV Light Angle Structure ($3^{\circ} - 15^{\circ}$) Framing.....	Page 35
161 kV Medium Angle Structure ($15^{\circ} - 30^{\circ}$) Framing.....	Page 36
161 kV Single Circuit Guyed Deadend ($30^{\circ} - 100^{\circ}$) Framing.....	Page 37
161 kV Single Circuit Self-Support Deadend ($30^{\circ} - 100^{\circ}$) Framing.....	Page 38
161 kV Single Circuit Vertical Tangent with Underbuild Framing.....	Page 39
161 kV Double Circuit Vertical Tangent Framing.....	Page 40
161 kV Double Circuit Self-Support Light Angle ($2^{\circ} - 8^{\circ}$) Framing.....	Page 41
161 kV Double Circuit Self-Support Medium Angle ($8^{\circ} - 45^{\circ}$) Framing.....	Page 42
161 kV Double Circuit Self-Support Deadend ($45^{\circ} - 135^{\circ}$) Framing.....	Page 43

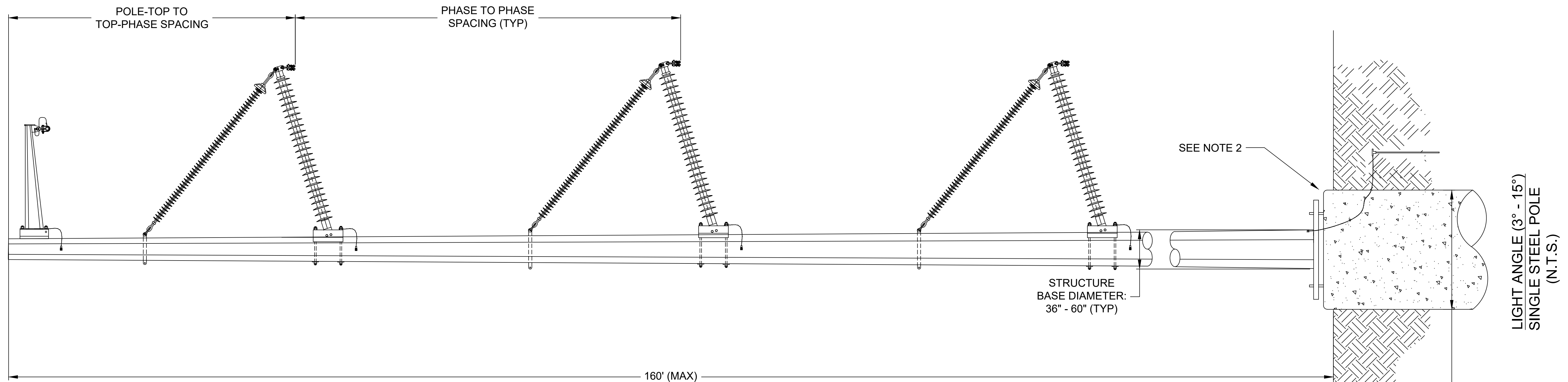
--								SCALE:	<div>NONE</div> <div>-- -- --</div>		CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.		ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.			DODGE COUNTY WIND, LLC 161 KV SINGLE CIRCUIT DELTA TANGENT FRAMING
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B	04/19/2021	PRELIMINARY - ISSUED FOR PERMIT APPLICATION					DIV	TRK	JDJ							S&L
A	12/30/2020	PRELIMINARY - ISSUED FOR REVIEW					ENB	TRK	JDJ	S&L						
NO	DATE	REVISIONS AND RECORD OF ISSUE					DRWN	REV'D	APPR	COMP	APPD:	JDJ	DATE:	12/30/2020	13139-053-T2-0200	



F 1. ELEVATION VIEW ILLUSTRATES THE OVERALL STRUCTURE CONFIGURATION.
THE SPACING BETWEEN THE COMPONENTS WILL BE DETERMINED DURING DETAILED DESIGN.

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C	04/19/2021	PRELIMINARY - ISSUED FOR PERMIT APPLICATION	DIV	TRK	JDJ	S&L		
B	12/30/2020	PRELIMINARY - ISSUED FOR REVIEW	ENB	TRK	JDJ	S&L		
A	07/15/2020	PRELIMINARY - ISSUED FOR REVIEW	CHS	TRK	--	S&L		
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP		
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DODGE COUNTY WIND, LLC 161 KV SINGLE CIRCUIT VERTICAL TANGENT FRAMING								
13139-053-T2-0205								



F	1. ELEVATION VIEW ILLUSTRATES THE OVERALL STRUCTURE CONFIGURATION. THE SPACING BETWEEN THE COMPONENTS WILL BE DETERMINED DURING DETAILED DESIGN.
	2. STRUCTURE FOUNDATION TYPE WILL BE DETERMINED DURING DETAILED DESIGN.

PRELIMINARY
NOT FOR CONSTRUCTION

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B	04/19/2021	PRELIMINARY - ISSUED FOR PERMIT APPLICATION			DIV	TRK	JDJ	S&L
A	12/30/2020	PRELIMINARY - ISSUED FOR REVIEW			ENB	TRK	JDJ	S&L
NO	DATE	REVISIONS AND RECORD OF ISSUE			DRWN	REV'D	APPR	COMP
					APPD:	JDJ	DATE:	12/30/2020

SCALE: NONE

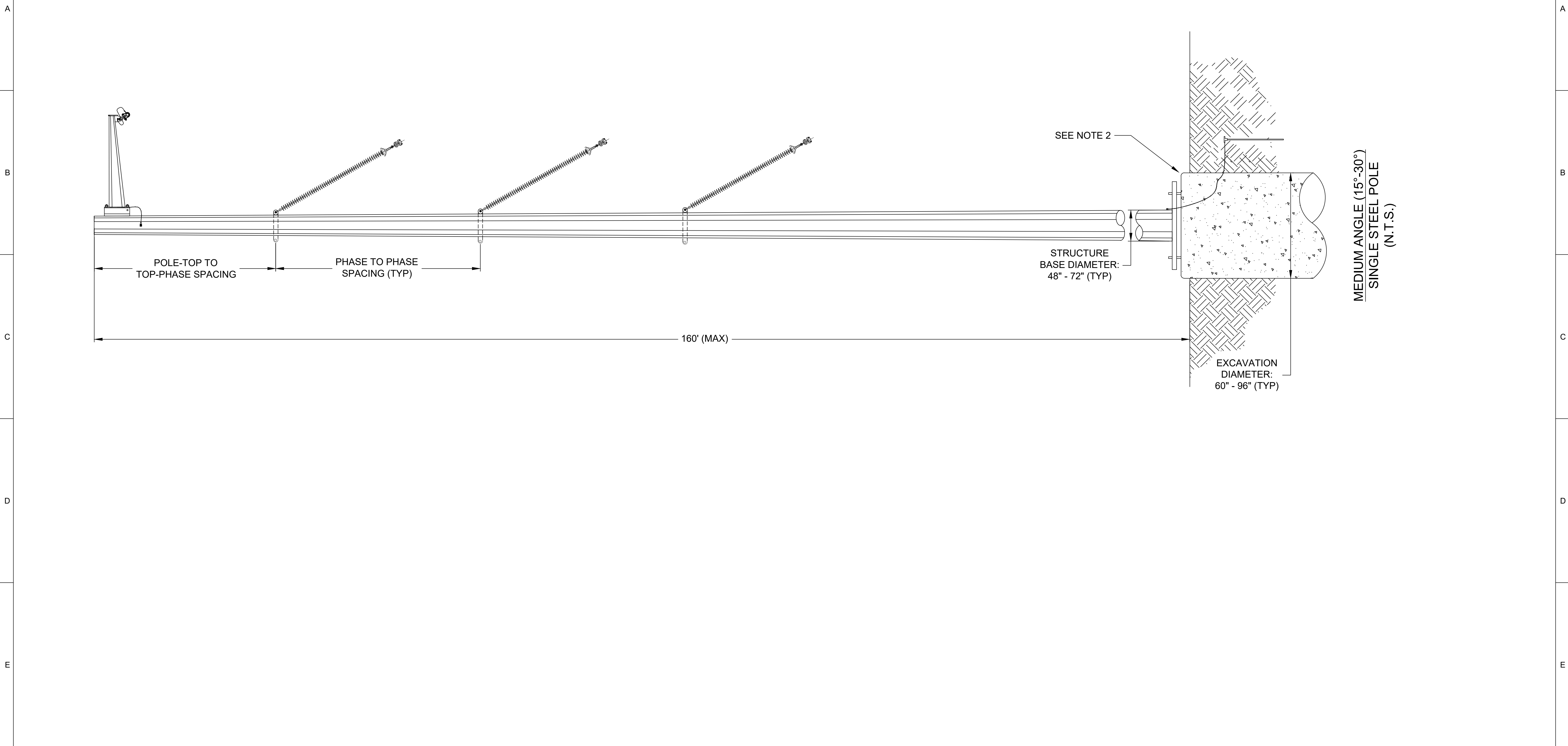
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DODGE COUNTY WIND, LLC
161 KV LIGHT ANGLE STRUCTURE (3° - 15°)
FRAMING

13139-053-T2-0210




F	1.	ELEVATION VIEW ILLUSTRATES THE OVERALL STRUCTURE CONFIGURATION. THE SPACING BETWEEN THE COMPONENTS WILL BE DETERMINED DURING DETAILED DESIGN.
	2.	STRUCTURE FOUNDATION TYPE WILL BE DETERMINED DURING DETAILED DESIGN.

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE:

NONE



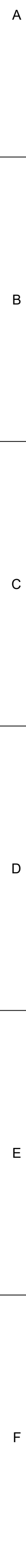
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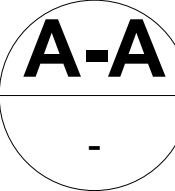
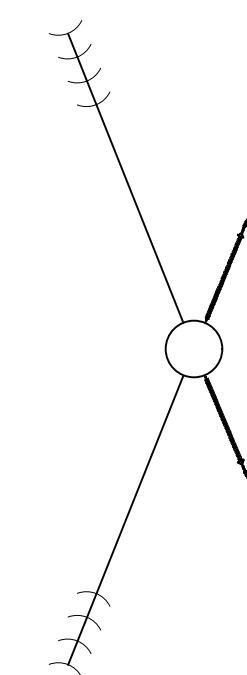


DODGE COUNTY WIND, LLC
161 KV MEDIUM ANGLE STRUCTURE (15° - 30°)
FRAMING


13139-053-T2-0215



1. ELEVATION VIEW ILLUSTRATES THE OVERALL STRUCTURE CONFIGURATION. THE SPACING BETWEEN THE COMPONENTS WILL BE DETERMINED DURING DETAILED DESIGN.
2. JUMPER POST TO BE USED WHEN REQUIRED.
3. STRUCTURE HAS MULTIPLE POTENTIAL GUYING CONFIGURATIONS. REQUIRED GUY ARRANGEMENT WILL BE DETERMINED DURING DETAILED DESIGN.



PRELIMINARY
NOT FOR CONSTRUCTION

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B	04/19/2021	PRELIMINARY - ISSUED FOR PERMIT APPLICATION			DIV	TRK	JDJ	S&L
A	12/30/2020	PRELIMINARY - ISSUED FOR REVIEW			ENB	TRK	JDJ	S&L
NO	DATE	REVISIONS AND RECORD OF ISSUE			DRWN	REV'D	APPR	COMP
					APPD:		JDJ	DATE: 12/30/2020

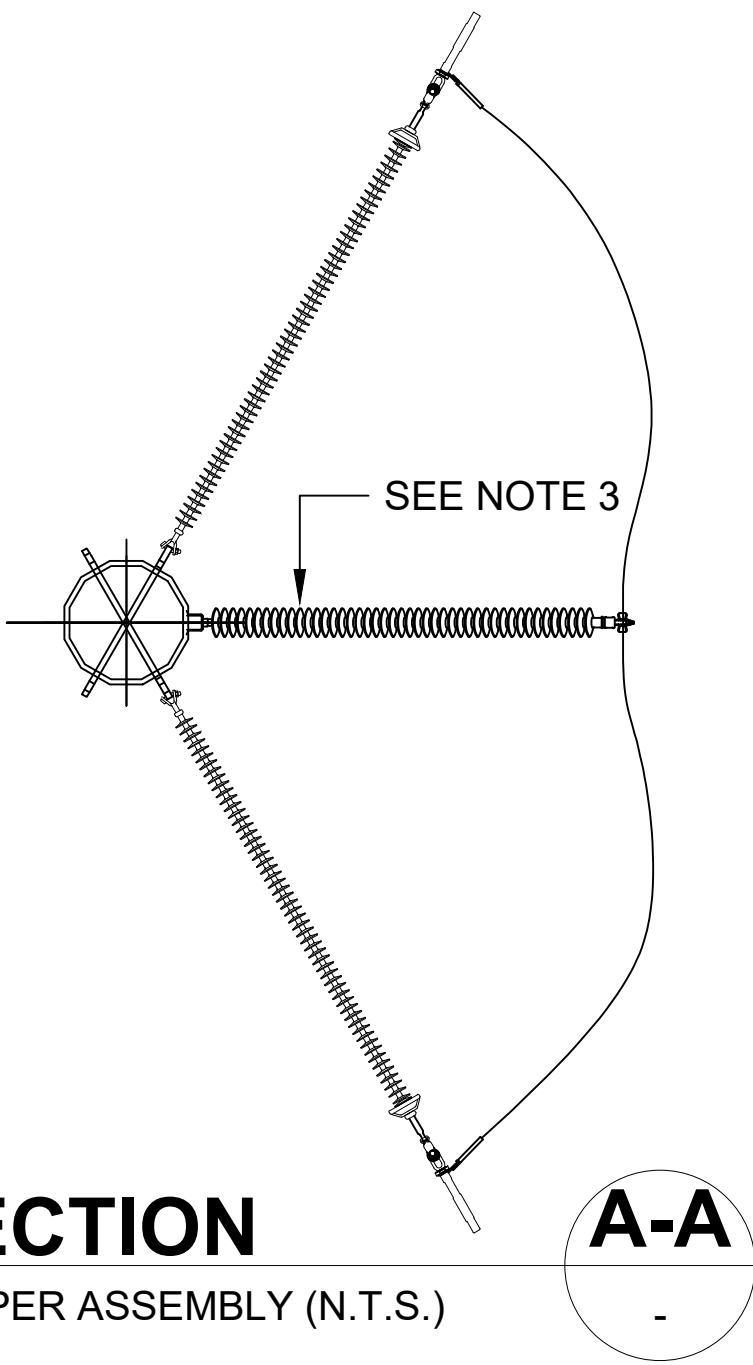
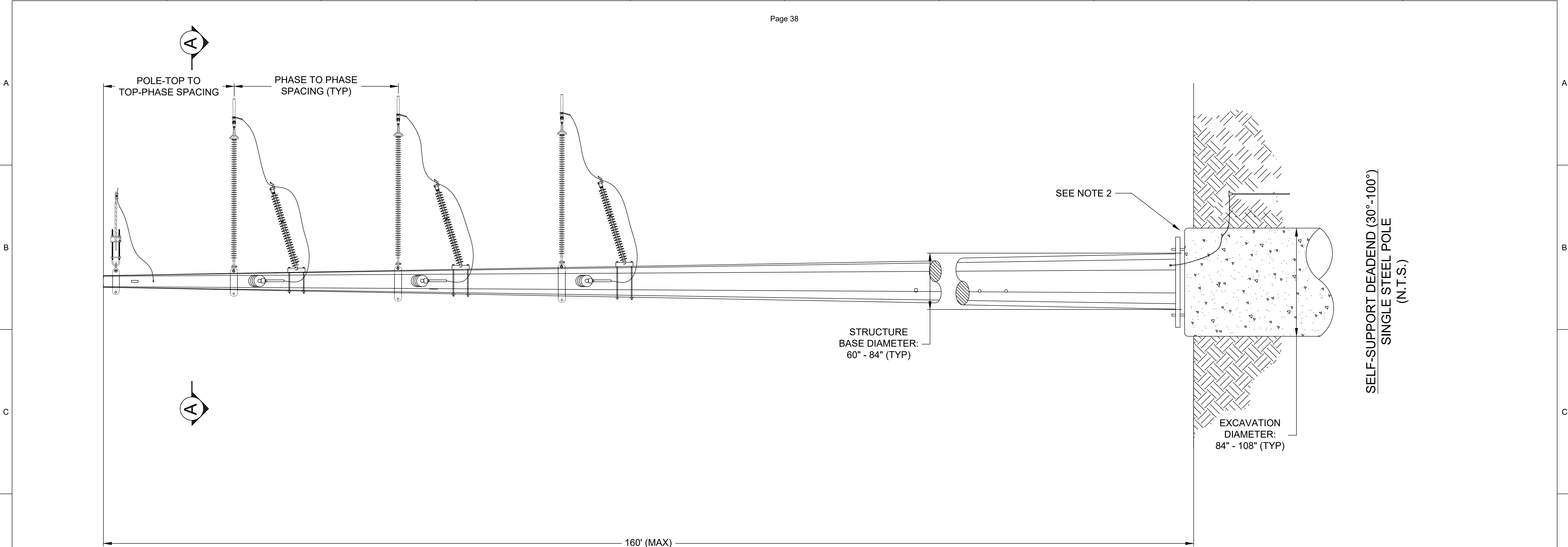
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DODGE COUNTY WIND, LLC
161 KV SINGLE CIRCUIT GUYED
DEADEND (30° - 100°) FRAMING

13139-053-T2-0225



- NOTES:
- 1. ELEVATION VIEW ILLUSTRATES THE OVERALL STRUCTURE CONFIGURATION. THE SPACING BETWEEN THE COMPONENTS WILL BE DETERMINED DURING DETAILED DESIGN.
 - 2. STRUCTURE FOUNDATION TYPE WILL BE DETERMINED DURING DETAILED DESIGN.
 - 3. JUMPER POST TO BE USED WHEN REQUIRED.

SCALE:			
NONE			

NONE

PREP:	ENB	CHKD:	TRK
APPD:	JDJ	DATE:	12/30/2020

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.

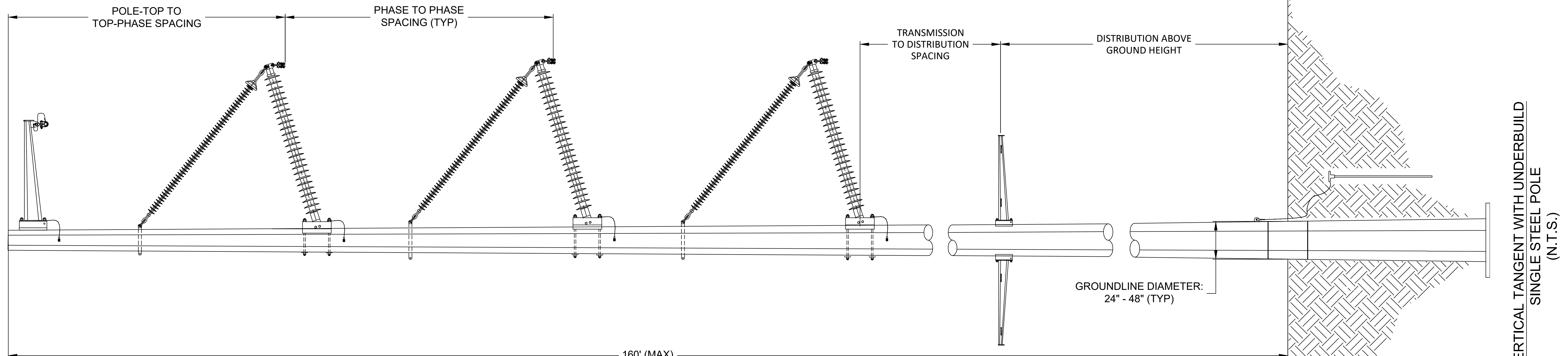
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DODGE COUNTY WIND, LLC
161 KV SINGLE CIRCUIT SELF-SUPPORT
DEADEND (30° - 100°) FRAMING

13139-053-T2-0230

PRELIMINARY
NOT FOR CONSTRUCTION




2. THE SPACING BETWEEN THE COMPONENTS WILL BE DETERMINED DURING DETAILED DESIGN. UNDERBUILD ATTACHMENT HEIGHT AND CONFIGURATION WILL BE DETERMINED IN COORDINATION WITH THE DISTRIBUTION OWNER DURING DETAILED DESIGN.

PRELIMINARY
NOT FOR CONSTRUCTION

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B	04/19/2021	PRELIMINARY - ISSUED FOR PERMIT APPLICATION			DIV	TRK	JDJ	S&L	PREP: NJT CHKD: TRK
A	01/18/2021	PRELIMINARY - ISSUED FOR REVIEW			NJT	TRK	JDJ	S&L	
NO	DATE	REVISIONS AND RECORD OF ISSUE			DRWN	REV'D	APPR	COMP	APPD: JDJ DATE: 01/18/2021

SCALE:

NONE



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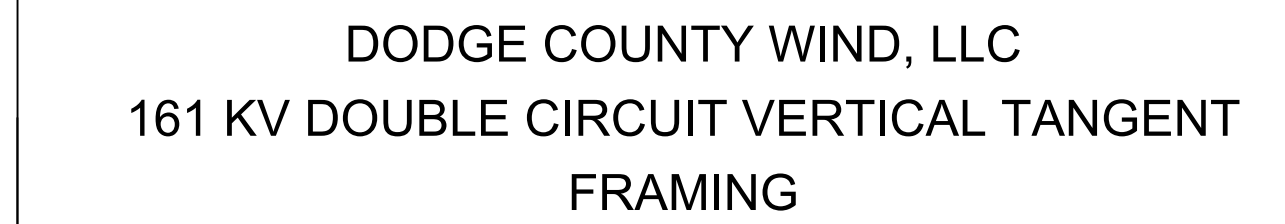


DODGE COUNTY WIND, LLC
161 KV SINGLE CIRCUIT VERTICAL TANGENT
WITH UNDERBUILD FRAMING

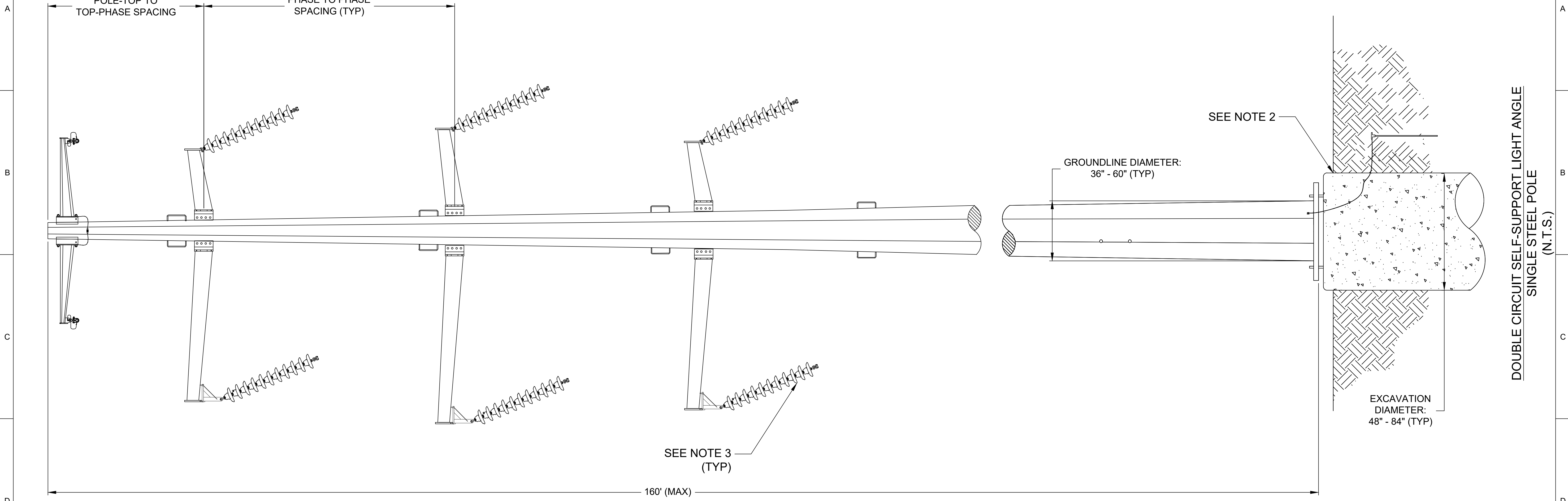
13139-053-T2-0240

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ANY MODIFICATION OR ADDITION TO THIS
DRAWING BY ANY ORGANIZATION OTHER
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13139-053-T2-0250



NOTES:

1. ELEVATION VIEW ILLUSTRATES THE OVERALL STRUCTURE CONFIGURATION. THE SPACING BETWEEN THE COMPONENTS WILL BE DETERMINED DURING DETAILED DESIGN.
2. STRUCTURE FOUNDATION TYPE WILL BE DETERMINED DURING DETAILED DESIGN.
3. INSULATOR ASSEMBLIES SHOWN WITH PORCELAIN OR GLASS BELLS. POLYMER INSULATORS MAY ALSO BE USED DEPENDING ON THE CIRCUIT OWNER'S DESIGN REQUIREMENTS.

PRELIMINARY
NOT FOR CONSTRUCTION

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B	04/19/2021	PRELIMINARY - ISSUED FOR PERMIT APPLICATION			DIV	TRK	JDJ	S&L
A	01/18/2021	PRELIMINARY - ISSUED FOR REVIEW			NJT	TRK	JDJ	S&L
NO	DATE	REVISIONS AND RECORD OF ISSUE			DRWN	REV'D	APPR	COMP
					APPD:	JDJ	DATE:	01/18/2021

SCALE:

NONE

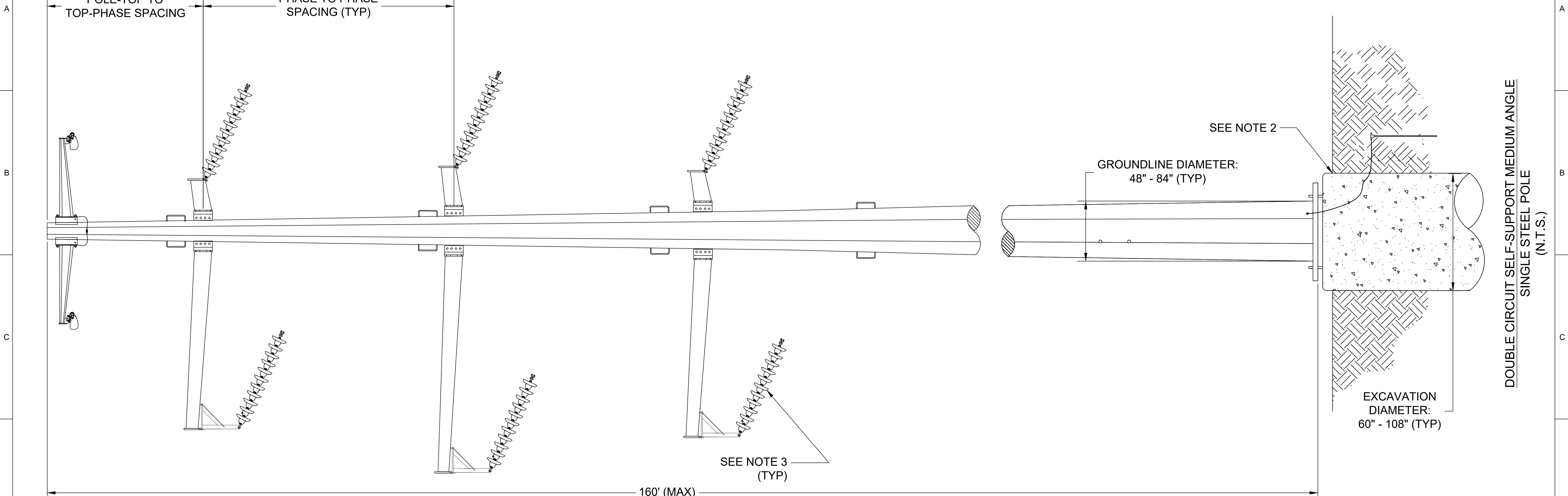
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DODGE COUNTY WIND, LLC
161 KV DOUBLE CIRCUIT SELF-SUPPORT
LIGHT ANGLE (2°-8°) FRAMING

13139-053-T2-0260



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| F | 1. ELEVATION VIEW ILLUSTRATES THE OVERALL STRUCTURE CONFIGURATION. THE SPACING BETWEEN THE COMPONENTS WILL BE DETERMINED DURING DETAILED DESIGN. |
| | 2. STRUCTURE FOUNDATION TYPE WILL BE DETERMINED DURING DETAILED DESIGN. |
| | 3. INSULATOR ASSEMBLIES SHOWN WITH PORCELAIN OR GLASS BELLS. POLYMER INSULATORS MAY ALSO BE USED DEPENDING ON THE CIRCUIT OWNER'S DESIGN REQUIREMENTS. |

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A	01/18/2021	PRELIMINARY - ISSUED FOR REVIEW			NJT	TRK	JDJ	S&L
NO	DATE	REVISIONS AND RECORD OF ISSUE			DRWN	REV'D	APPR	COMP
					APPD:	JDJ	DATE:	01/18/2021

SCALE:

NONE

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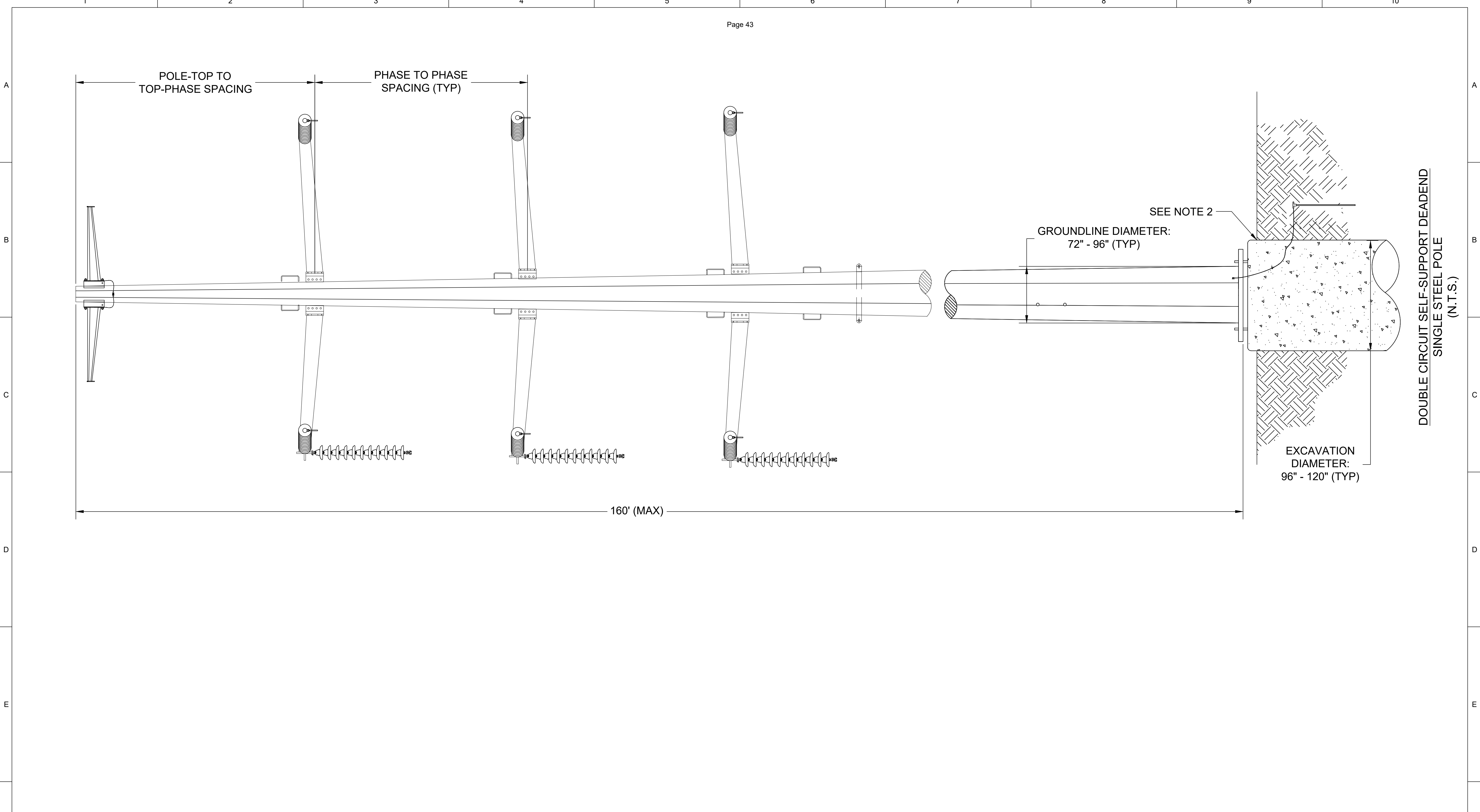
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DODGE COUNTY WIND, LLC
161 KV DOUBLE CIRCUIT SELF-SUPPORT
MEDIUM ANGLE (8°-45°) FRAMING

13139-053-T2-0265

PRELIMINARY
NOT FOR CONSTRUCTION



NOTES:

- F 1. ELEVATION VIEW ILLUSTRATES THE OVERALL STRUCTURE CONFIGURATION.
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2. STRUCTURE FOUNDATION TYPE WILL BE DETERMINED DURING DETAILED DESIGN.
3. INSULATOR ASSEMBLIES SHOWN WITH PORCELAIN OR GLASS BELLS. POLYMER INSULATORS MAY
ALSO BE USED DEPENDING ON THE CIRCUIT OWNER'S DESIGN REQUIREMENTS.

PRELIMINARY
NOT FOR CONSTRUCTION

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B	04/19/2021	PRELIMINARY - ISSUED FOR PERMIT APPLICATION			DIV	TRK	JDJ	S&L		
A	01/18/2021	PRELIMINARY - ISSUED FOR REVIEW			NJT	TRK	JDJ	S&L	PREP: NJT	CHKD: TRK
NO	DATE	REVISIONS AND RECORD OF ISSUE			DRWN	REV'D	APPR	COMP	APPD: JDJ	DATE: 01/18/2021

SCALE:

NONE

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DODGE COUNTY WIND, LLC
161 KV DOUBLE CIRCUIT SELF-SUPPORT DEADEND
(45°-135°) FRAMING

13139-053-T2-0275