

# Request for Quotes

## Steel Poles

### Summary and Technical Specifications:

OMPA is requesting quotes for steel poles to be delivered to the OMPA yard at 2124 Commerce St, Fairview, OK. All poles shall be designed for direct embedment unless otherwise noted below. Poles shall be hot dip galvanized with a welded butt plate and top cap unless otherwise specified. Butt plate design shall allow for drainage of water from the interior of the pole. A suitable UV stabilized below grade coating of at least 20 mils shall be applied based on the height of the poles and expected burial depth (10% of the pole length plus 2'). Jacking nuts and up to 28 pre-drilled holes per pole shall be provided. Two (2) zinc coated grounding inserts shall be included at the top of the pole and two (2) at ground level for connection to a static wire and ground rod(s). Each pole shall be permanently marked 60" above the groundline with the manufacturer's name, month and year of manufacture, length and class of pole, ultimate moment capacity of the pole, owner's name "OMPA" and pole weight. Poles shall meet Buy America Act (BAA) requirements.

Bids are due February 1, 2024 4:00pm Central Time. Please e-mail bids to [adobson@ompa.com](mailto:adobson@ompa.com) or mail to Alex Dobson 2701 W I-35 Frontage Rd Edmond, OK 73013.

### Specific details of quote request:

- a) Fairview, OK-Steel Poles and delivery**      **Expected delivery date** \_\_\_\_\_
- |   |                |
|---|----------------|
| a. Quantity two (2) 50' Class H2 steel poles      | Price \$ _____ |
| b. Quantity ten (10) 55' Class H2 steel poles     | Price \$ _____ |
| c. Quantity sixteen (16) 60' Class H2 steel poles | Price \$ _____ |
| d. Quantity ten (10) 65' Class H2 steel poles     | Price \$ _____ |
| e. Quantity seven (7) 70' Class H2 steel poles    | Price \$ _____ |
| f. Quantity nine (9) 75' Class H2 steel poles     | Price \$ _____ |
| g. Quantity two (2) 80' Class H2 steel poles      | Price \$ _____ |
| h. Quantity five (5) 85' Class H2 steel poles     | Price \$ _____ |
| i. Quantity one (1) 95' Class H2 steel poles      | Price \$ _____ |
| j. Quantity one (1) 60' Class H3 steel pole       | Price \$ _____ |
| k. Quantity two (2) 60' Custom poles              | Price \$ _____ |
| l. Quantity five (5) 65' Custom poles             | Price \$ _____ |
| m. Quantity two (2) 145' Custom poles             | Price \$ _____ |

**LOADING CRITERIA**

LOAD CASE	TEMP F°	RADIAL ICE, IN.	WIND PSF	LOAD FACTORS		
				VERTICAL	WIND	TENSION
1. NESC HEAVY	0	.5	4	1.5	2.5	1.65
2. EXTREME WIND	60	0	23.1	1	1	1
3. CONCURRENT	15	1	4.1	1	1	1
4. DEFLECTION	60	0	1	1	1	1

**LOADING TABLE**

LOAD CASE	LOAD PT. A, 1 PLACE			LOAD PT. B, 1 PLACE		
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP
1. NESC HEAVY	0.1	0.5	-5.2	0.1	0.5	5.0
2. EXTREME WIND	-0.1	0.2	-2.3	0.1	0.2	2.2
3. CONCURRENT	0.2	0.4	-4.0	0.2	0.4	3.7
4. DEFLECTION	-0.1	0.2	-1.8	0.1	0.3	1.8

LOAD CASE	LOAD PT. C, 3 PLACES			LOAD PT. D, 3 PLACES			STRUCTURE	
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP	W, PSF	K
1. NESC HEAVY	0.3	0.6	-6.1	0.4	0.7	5.8	10	1.5
2. EXTREME WIND	0.1	0.2	-3.0	0.1	0.2	2.8	23.1	1
3. CONCURRENT	0.3	0.5	-4.7	0.3	0.5	4.4	4.1	1
4. DEFLECTION	0.2	0.2	-1.5	0.2	0.2	1.4	1	1

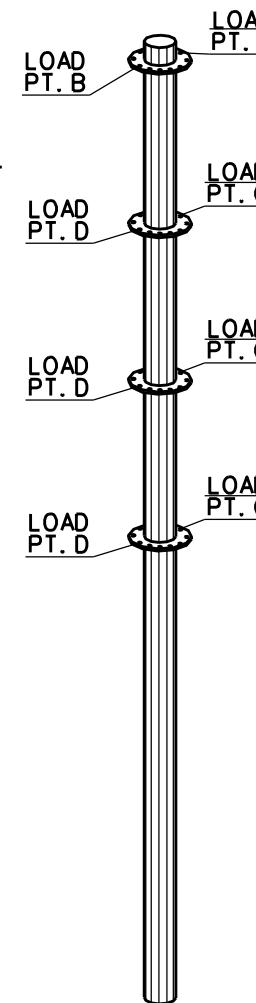
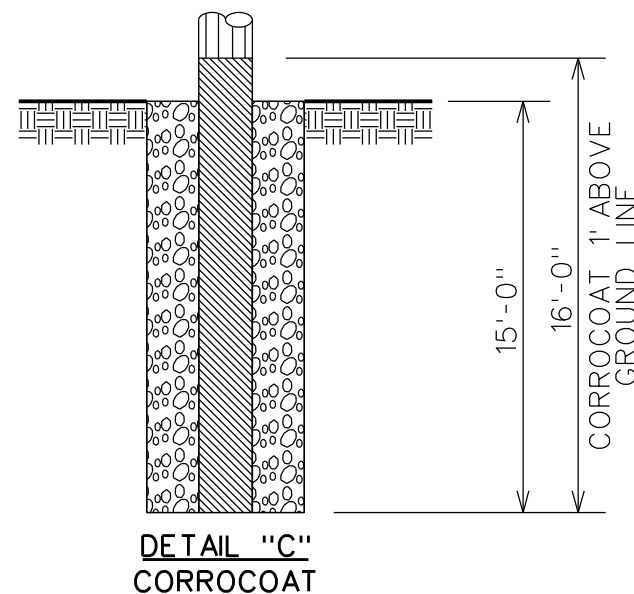
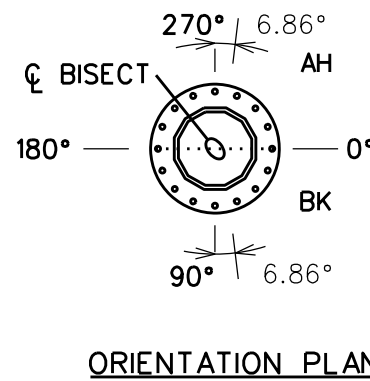
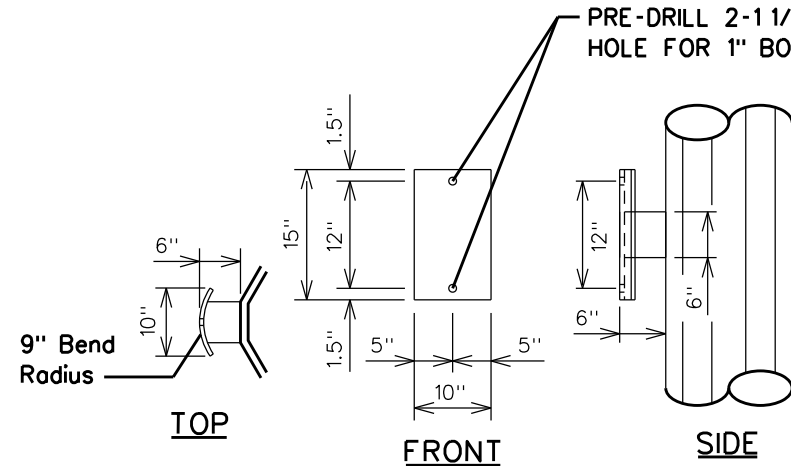
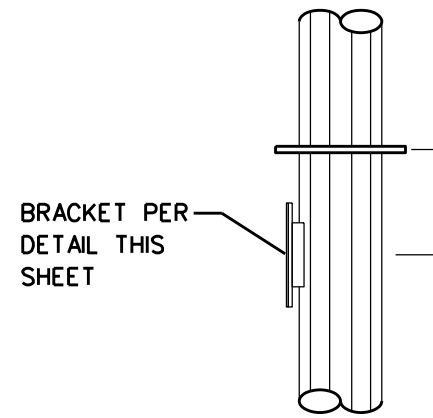
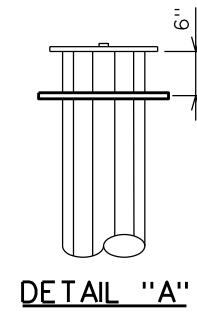
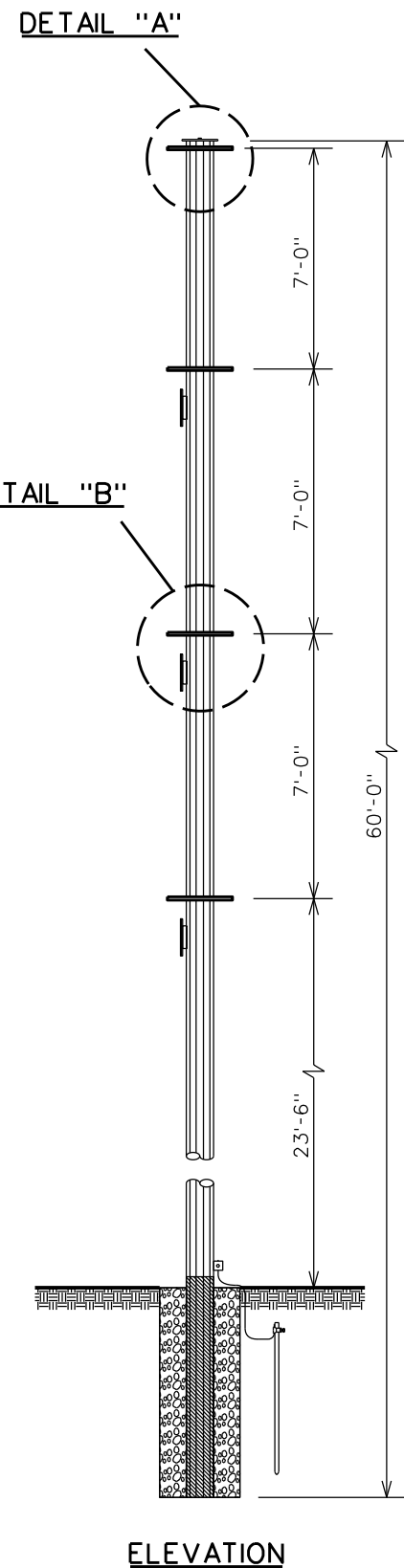
**NOTES:**

1. THE INDICATED LOADS ARE ULTIMATE LOADS WHICH INCLUDE ALL OVERLOAD CAPACITY FACTORS.
2. V, T & L ARE RESPECTIVELY, THE VERTICAL, TRANSVERSE, AND LONGITUDINAL WIRE LOADS. WEIGHT OF THE INSULATORS ARE INCLUDED.
3. WIND BLOWING ALONG THE BISECT TOWARDS 0°. "W" IS THE WIND PRESSURE INCLUDING LOAD FACTORS TO BE APPLIED TO THE STRUCTURE. THESE WIND PRESSURES SHALL BE MULTIPLIED BY THE SHAPE FACTOR LISTED BELOW. "K" IS THE LOAD FACTOR BY WHICH THE DEAD LOAD OF THE STRUCTURE SHALL BE MULTIPLIED.

CROSS SECTION	SHAPE FACTOR
CIRCULAR	1.0
12-SIDED POLY	1.0
OCTAGONAL	1.2
SQUARE	1.6

4. LIMIT POLE TOP DEFLECTION TO 6" FOR DEFLECTION LOAD CASE.
5. DESIGN LOAD CASES 1-3 WITH ALL LOAD POINTS INTACT, WITH ONLY BACK LOADS B & D AND ONLY AHEAD LOADS A & C.

**FINAL DRAWINGS TO BE APPROVED BY CEC**



60' CUSTOM POLE

	DESIGN: TC(CEC)	PROJECT: WAYNOKA 24kV/69kV RELOCATE
	DRAWN: TC(CEC)	TITLE: STR. #5/7 LOADS
	CHECKED: JRB(CEC)	SHEET NO. 1 OF 1

**LOADING CRITERIA**

LOAD CASE	TEMP F°	RADIAL ICE, IN.	WIND PSF	LOAD FACTORS		
				VERTICAL	WIND	TENSION
1. NESC HEAVY	0	.5	4	1.5	2.5	1.65
2. EXTREME WIND	60	0	23.1	1	1	1
3. CONCURRENT	15	1	4.1	1	1	1
4. DEFLECTION	60	0	1	1	1	1

**LOADING TABLE**

LOAD CASE	LOAD PT. A, 1 PLACE			LOAD PT. B, 1 PLACE		
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP
1. NESC HEAVY	0.1	-0.1	5.2	0.3	-0.1	-5.1
2. EXTREME WIND	-0.2	-0.2	2.3	0.1	-0.1	-2.2
3. CONCURRENT	0.2	-0.1	3.9	0.4	-0.1	-3.9
4. DEFLECTION	-0.1	-0.1	1.8	0.1	-0.1	-1.8

LOAD CASE	LOAD PT. C, 3 PLACES			LOAD PT. D, 3 PLACES			STRUCTURE	
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP	W, PSF	K
1. NESC HEAVY	0.2	-0.2	6.0	0.8	-0.2	-6.0	10	1.5
2. EXTREME WIND	-0.1	-0.2	2.9	0.4	-0.2	-2.9	23.1	1
3. CONCURRENT	0.3	-0.1	4.6	0.9	-0.2	-4.6	4.1	1
4. DEFLECTION	0.1	-0.1	1.5	0.2	-0.1	-1.5	1	1

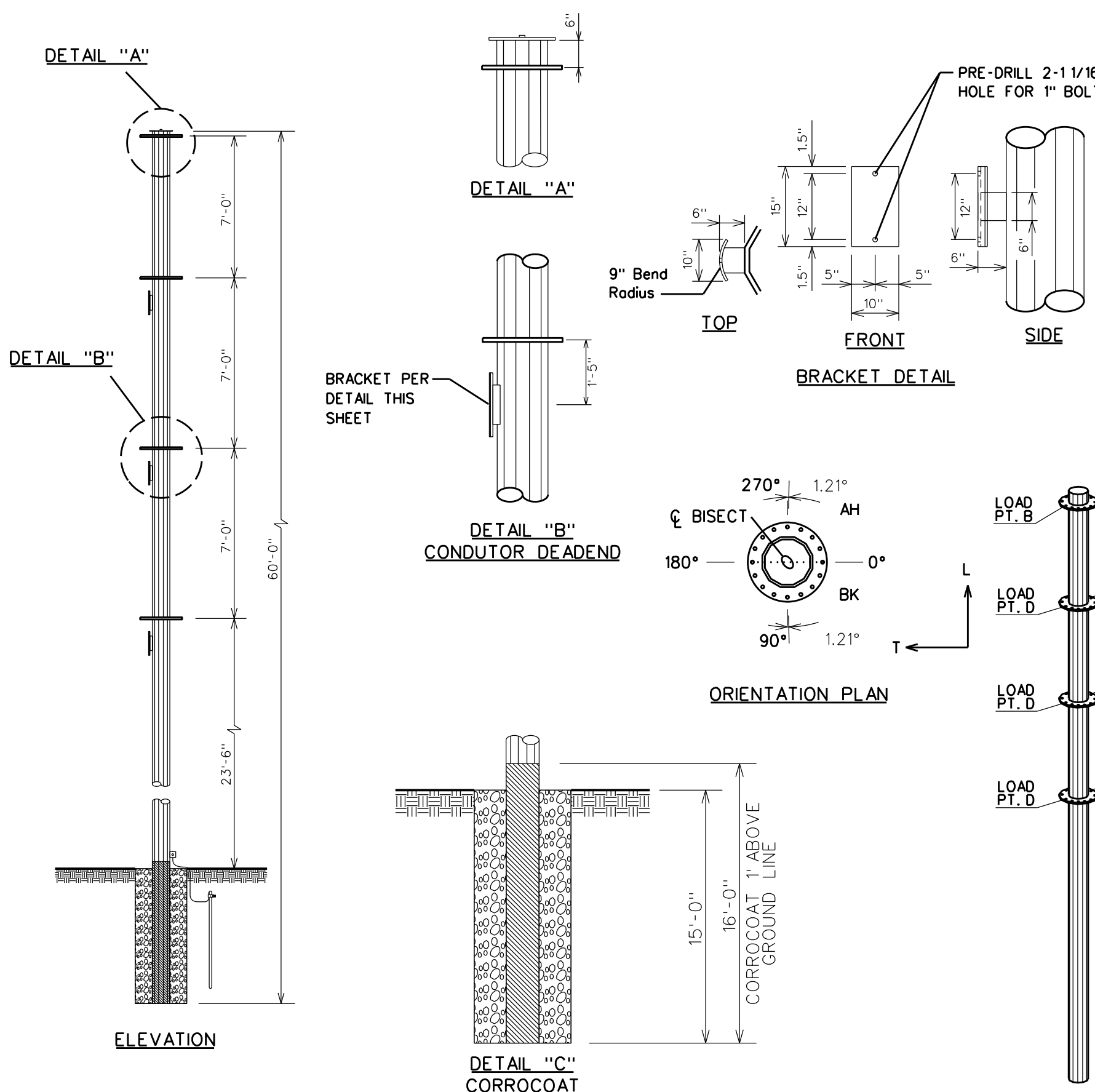
**NOTES:**

1. THE INDICATED LOADS ARE ULTIMATE LOADS WHICH INCLUDE ALL OVERLOAD CAPACITY FACTORS.
2. V, T & L ARE RESPECTIVELY, THE VERTICAL, TRANSVERSE, AND LONGITUDINAL WIRE LOADS. WEIGHT OF THE INSULATORS ARE INCLUDED.
3. WIND BLOWING ALONG THE BISECT TOWARDS 0°. "W" IS THE WIND PRESSURE INCLUDING LOAD FACTORS TO BE APPLIED TO THE STRUCTURE. THESE WIND PRESSURES SHALL BE MULTIPLIED BY THE SHAPE FACTOR LISTED BELOW. "K" IS THE LOAD FACTOR BY WHICH THE DEAD LOAD OF THE STRUCTURE SHALL BE MULTIPLIED.

CROSS SECTION	SHAPE FACTOR
CIRCULAR	1.0
12-SIDED POLY	1.0
OCTAGONAL	1.2
SQUARE	1.6

4. LIMIT POLE TOP DEFLECTION TO 6" FOR DEFLECTION LOAD CASE.
5. DESIGN LOAD CASES 1-3 WITH ALL LOAD POINTS INTACT, WITH ONLY BACK LOADS B & D AND ONLY AHEAD LOADS A & C.

**FINAL DRAWINGS TO BE APPROVED BY CEC**



	DESIGN	TC(CEC)	PROJECT:	WAYNOKA 24kV/69kV RELOCATE
	DRAWN	TC(CEC)	TITLE:	STR. #7/11 LOADS
	CHECKED	JRB(CEC)	SHEET NO.	1 OF 1

**LOADING CRITERIA**

LOAD CASE	TEMP F°	RADIAL ICE, IN.	WIND PSF	LOAD FACTORS		
				VERTICAL	WIND	TENSION
1. NESC HEAVY	0	.5	4	1.5	2.5	1.65
2. EXTREME WIND	60	0	23.1	1	1	1
3. CONCURRENT	15	1	4.1	1	1	1
4. DEFLECTION	60	0	1	1	1	1

**LOADING TABLE**

LOAD CASE	LOAD PT. A, 1 PLACE			LOAD PT. B, 1 PLACE		
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP
1. NESC HEAVY	0.3	0.4	-5.1	0.2	0.4	5.1
2. EXTREME WIND	0.1	0.2	-2.2	0.1	0.2	2.3
3. CONCURRENT	0.4	0.3	-3.8	0.3	0.3	3.9
4. DEFLECTION	0.1	0.2	-1.8	0.1	0.2	1.8

LOAD CASE	LOAD PT. C, 3 PLACES			LOAD PT. D, 3 PLACES			STRUCTURE	
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP	W, PSF	K
1. NESC HEAVY	0.4	0.5	-5.9	0.4	0.5	6.0	10	1.5
2. EXTREME WIND	0.2	0.2	-2.8	0.2	0.2	2.9	23.1	1
3. CONCURRENT	0.5	0.4	-4.5	0.5	0.4	4.6	4.1	1
4. DEFLECTION	0.2	0.2	-1.5	0.2	0.2	1.5	1	1

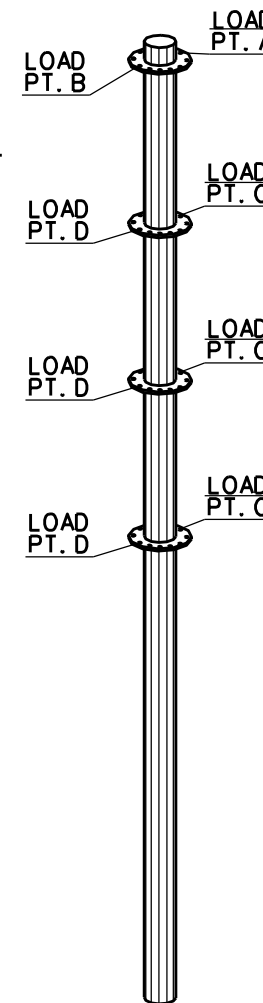
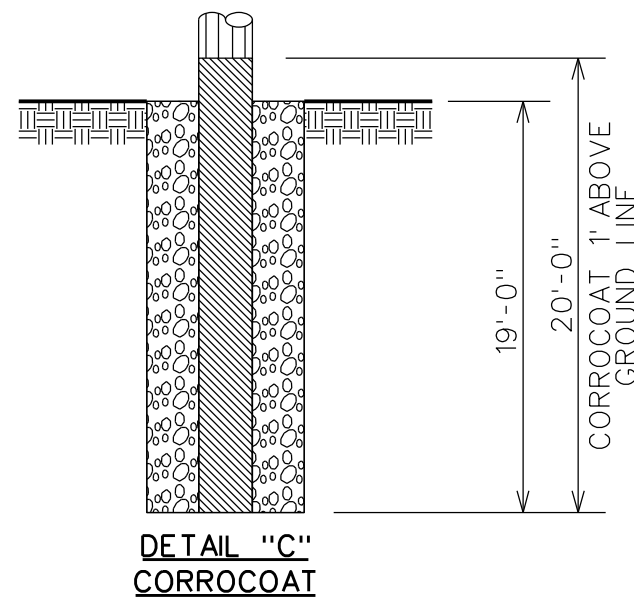
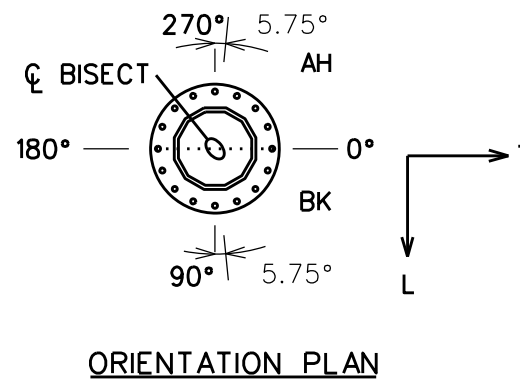
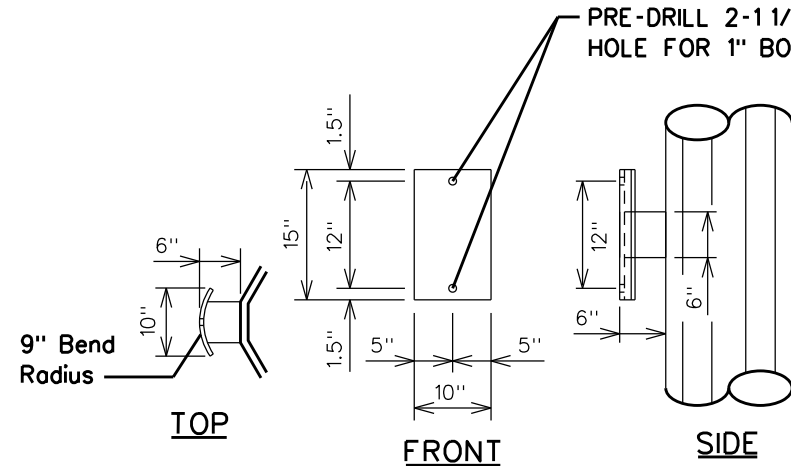
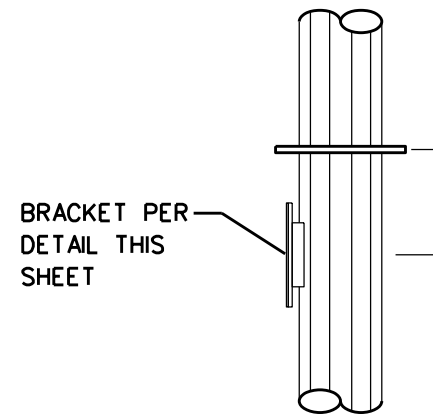
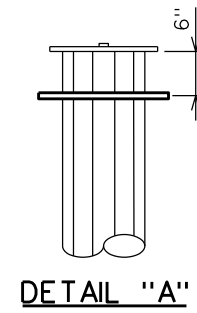
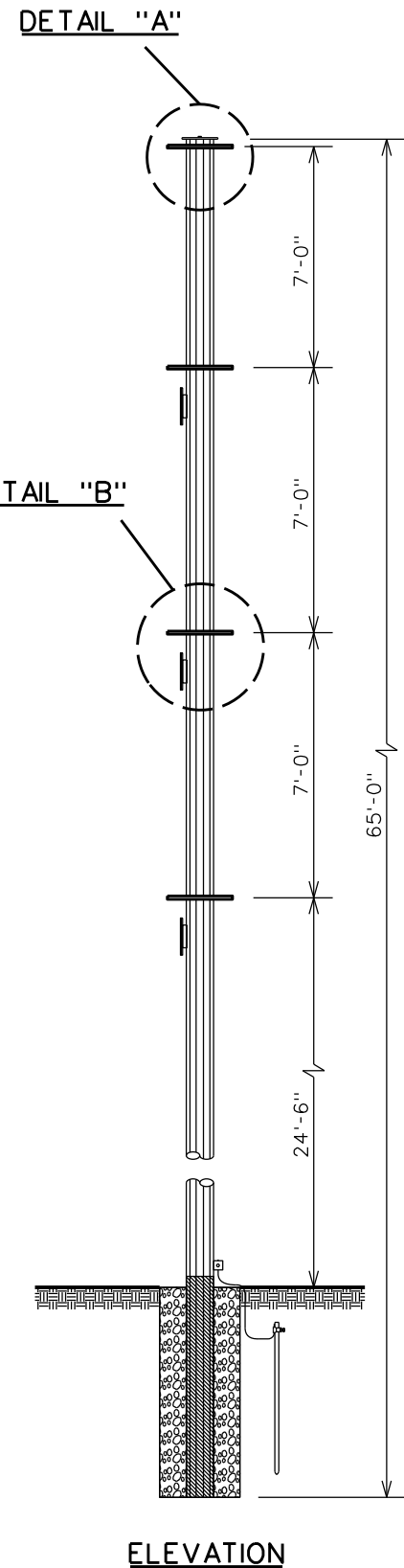
**NOTES:**

1. THE INDICATED LOADS ARE ULTIMATE LOADS WHICH INCLUDE ALL OVERLOAD CAPACITY FACTORS.
2. V, T & L ARE RESPECTIVELY, THE VERTICAL, TRANSVERSE, AND LONGITUDINAL WIRE LOADS. WEIGHT OF THE INSULATORS ARE INCLUDED.
3. WIND BLOWING ALONG THE BISECT TOWARDS 0°. "W" IS THE WIND PRESSURE INCLUDING LOAD FACTORS TO BE APPLIED TO THE STRUCTURE. THESE WIND PRESSURES SHALL BE MULTIPLIED BY THE SHAPE FACTOR LISTED BELOW. "K" IS THE LOAD FACTOR BY WHICH THE DEAD LOAD OF THE STRUCTURE SHALL BE MULTIPLIED.

CROSS SECTION	SHAPE FACTOR
CIRCULAR	1.0
12-SIDED POLY	1.0
OCTAGONAL	1.2
SQUARE	1.6

4. LIMIT POLE TOP DEFLECTION TO 6" FOR DEFLECTION LOAD CASE.
5. DESIGN LOAD CASES 1-3 WITH ALL LOAD POINTS INTACT, WITH ONLY BACK LOADS B & D AND ONLY AHEAD LOADS A & C.

**FINAL DRAWINGS TO BE APPROVED BY CEC**



65' CUSTOM POLE

	DESIGN	TC(CEC)	PROJECT:	WAYNOKA 24kV/69kV RELOCATE
	DRAWN	TC(CEC)	TITLE:	STR. #8/6 LOADS
	CHECKED	JRB(CEC)	SHEET NO.	1 OF 1

**LOADING CRITERIA**

LOAD CASE	TEMP F°	RADIAL ICE, IN.	WIND PSF	LOAD FACTORS		
				VERTICAL	WIND	TENSION
1. NESC HEAVY	0	.5	4	1.5	2.5	1.65
2. EXTREME WIND	60	0	23.1	1	1	1
3. CONCURRENT	15	1	4.1	1	1	1
4. DEFLECTION	60	0	1	1	1	1

**LOADING TABLE**

LOAD CASE	LOAD PT. A, 1 PLACE			LOAD PT. B, 1 PLACE		
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP
1. NESC HEAVY	0.4	-0.2	-5.2	0.2	-0.2	5.1
2. EXTREME WIND	0.2	-0.1	-2.3	0.1	-0.1	2.2
3. CONCURRENT	0.5	-0.2	-3.9	0.3	-0.2	3.8
4. DEFLECTION	0.2	0.1	-1.8	0.1	0.1	1.8

LOAD CASE	LOAD PT. C, 3 PLACES			LOAD PT. D, 3 PLACES			STRUCTURE	
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP	W, PSF	K
1. NESC HEAVY	0.7	-0.4	-6.1	0.4	-0.3	5.9	10	1.5
2. EXTREME WIND	0.3	-0.3	-2.9	0.2	-0.3	2.8	23.1	1
3. CONCURRENT	0.8	-0.3	-4.7	0.5	-0.2	4.5	4.1	1
4. DEFLECTION	0.3	-0.1	-1.5	0.2	-0.1	1.5	1	1

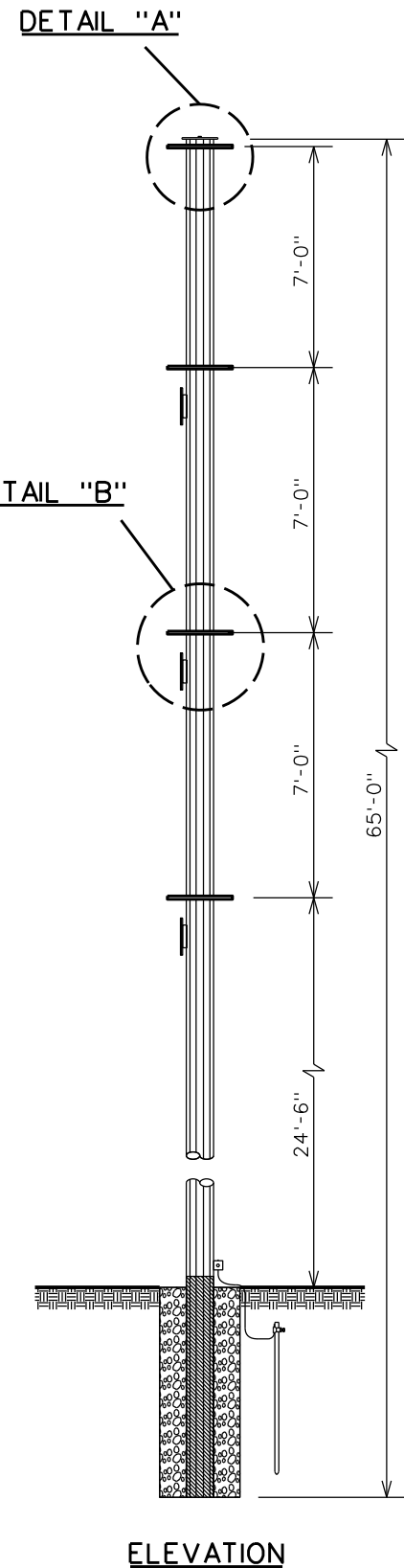
**NOTES:**

1. THE INDICATED LOADS ARE ULTIMATE LOADS WHICH INCLUDE ALL OVERLOAD CAPACITY FACTORS.
2. V, T & L ARE RESPECTIVELY, THE VERTICAL, TRANSVERSE, AND LONGITUDINAL WIRE LOADS. WEIGHT OF THE INSULATORS ARE INCLUDED.
3. WIND BLOWING ALONG THE BISECT TOWARDS 0°. "W" IS THE WIND PRESSURE INCLUDING LOAD FACTORS TO BE APPLIED TO THE STRUCTURE. THESE WIND PRESSURES SHALL BE MULTIPLIED BY THE SHAPE FACTOR LISTED BELOW. "K" IS THE LOAD FACTOR BY WHICH THE DEAD LOAD OF THE STRUCTURE SHALL BE MULTIPLIED.

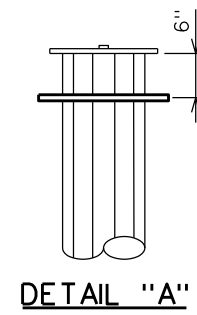
CROSS SECTION	SHAPE FACTOR
CIRCULAR	1.0
12-SIDED POLY	1.0
OCTAGONAL	1.2
SQUARE	1.6

4. LIMIT POLE TOP DEFLECTION TO 6" FOR DEFLECTION LOAD CASE.
5. DESIGN LOAD CASES 1-3 WITH ALL LOAD POINTS INTACT, WITH ONLY BACK LOADS B & D AND ONLY AHEAD LOADS A & C.

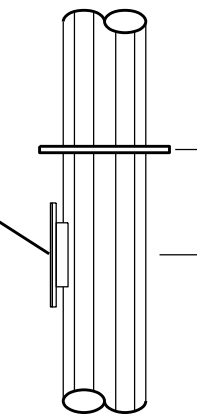
**FINAL DRAWINGS TO BE APPROVED BY CEC**



**ELEVATION**

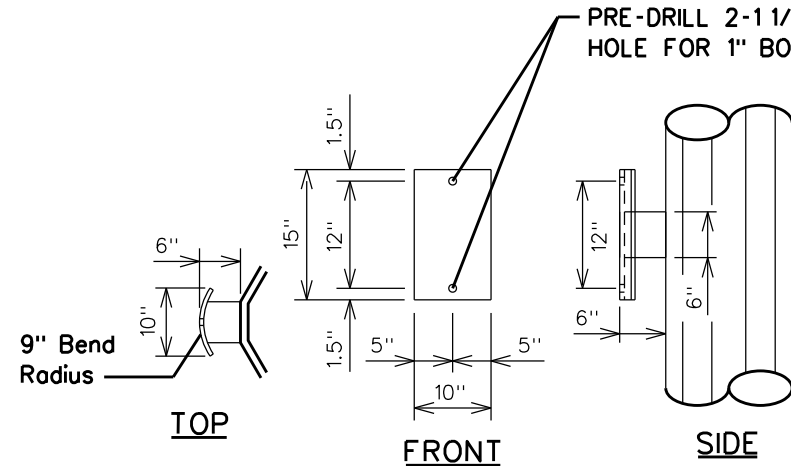


**DETAIL "A"**

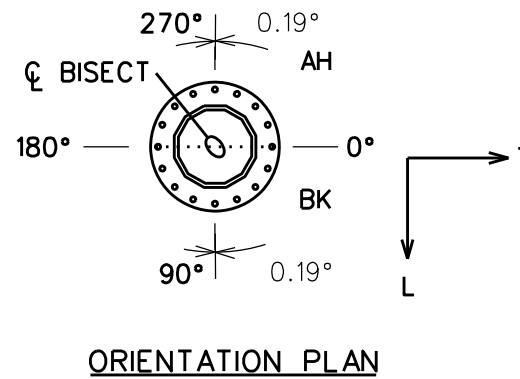


**DETAIL "B" CONDUCTOR DEADEND**

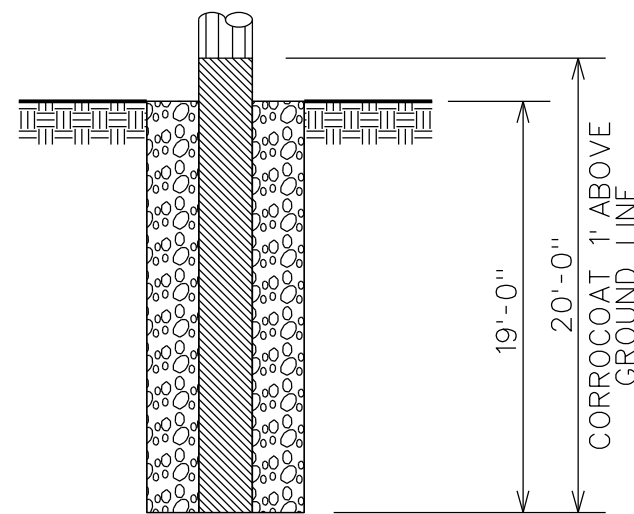
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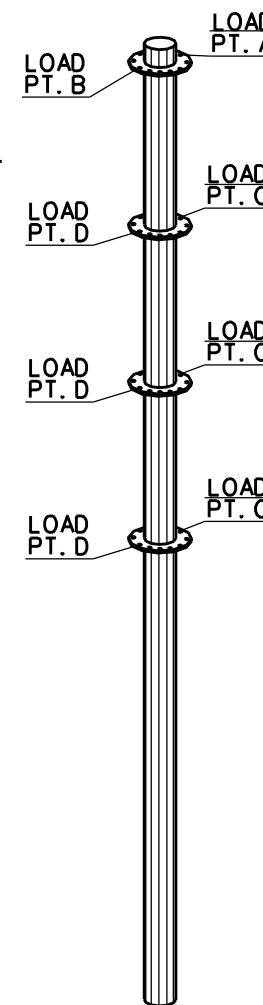
**BRACKET DETAIL**



**ORIENTATION PLAN**



**DETAIL "C" CORROCOAT**



	DESIGN	TC(CEC)	PROJECT:	WAYNOKA 24kV/69kV RELOCATE
	DRAWN	TC(CEC)	TITLE:	STR. #8/12 LOADS
	CHECKED	JRB(CEC)	SHEET NO.	1 OF 1

**LOADING CRITERIA**

LOAD CASE	TEMP F°	RADIAL ICE, IN.	WIND PSF	LOAD FACTORS		
				VERTICAL	WIND	TENSION
1. NESC HEAVY	0	.5	4	1.5	2.5	1.65
2. EXTREME WIND	60	0	23.1	1	1	1
3. CONCURRENT	15	1	4.1	1	1	1
4. DEFLECTION	60	0	1	1	1	1

**LOADING TABLE**

LOAD CASE	LOAD PT. A, 1 PLACE			LOAD PT. B, 1 PLACE		
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP
1. NESC HEAVY	0.3	-0.2	4.9	0.1	-0.1	-5.2
2. EXTREME WIND	0.1	-0.1	2.2	-0.1	-0.1	-2.2
3. CONCURRENT	0.4	-0.1	3.7	0.3	-0.1	-3.9
4. DEFLECTION	0.1	-0.1	1.8	-0.1	-0.1	-1.8

LOAD CASE	LOAD PT. C, 3 PLACES			LOAD PT. D, 3 PLACES			STRUCTURE	
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP	W, PSF	K
1. NESC HEAVY	0.5	-0.2	5.7	0.3	-0.2	-6.1	10	1.5
2. EXTREME WIND	0.2	0.1	2.7	0.1	0.2	-2.9	23.1	1
3. CONCURRENT	0.6	-0.2	4.3	0.4	-0.2	-4.7	4.1	1
4. DEFLECTION	0.2	-0.1	1.4	0.1	-0.1	-1.5	1	1

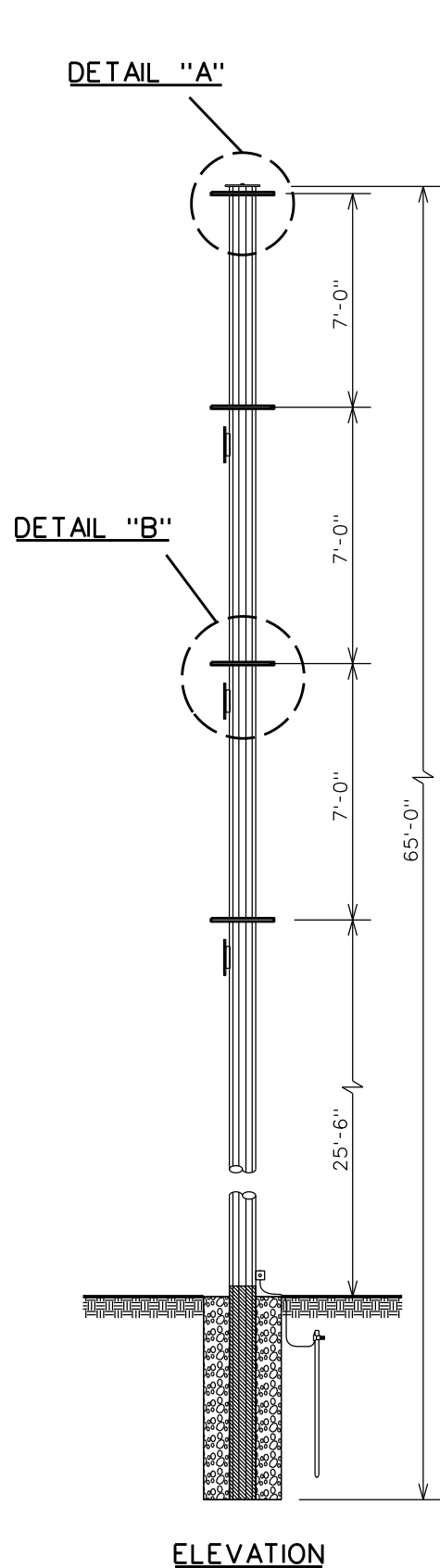
**NOTES:**

1. THE INDICATED LOADS ARE ULTIMATE LOADS WHICH INCLUDE ALL OVERLOAD CAPACITY FACTORS.
2. V, T & L ARE RESPECTIVELY, THE VERTICAL, TRANSVERSE, AND LONGITUDINAL WIRE LOADS. WEIGHT OF THE INSULATORS ARE INCLUDED.
3. WIND BLOWING ALONG THE BISECT TOWARDS 0°. "W" IS THE WIND PRESSURE INCLUDING LOAD FACTORS TO BE APPLIED TO THE STRUCTURE. THESE WIND PRESSURES SHALL BE MULTIPLIED BY THE SHAPE FACTOR LISTED BELOW. "K" IS THE LOAD FACTOR BY WHICH THE DEAD LOAD OF THE STRUCTURE SHALL BE MULTIPLIED.

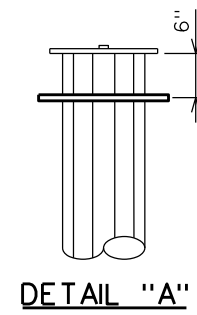
CROSS SECTION	SHAPE FACTOR
CIRCULAR	1.0
12-SIDED POLY	1.0
OCTAGONAL	1.2
SQUARE	1.6

4. LIMIT POLE TOP DEFLECTION TO 6" FOR DEFLECTION LOAD CASE.
5. DESIGN LOAD CASES 1-3 WITH ALL LOAD POINTS INTACT, WITH ONLY BACK LOADS B & D AND ONLY AHEAD LOADS A & C.

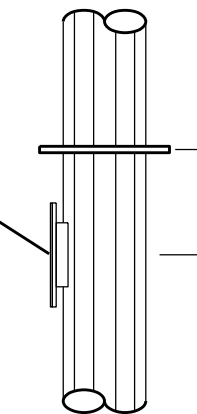
**FINAL DRAWINGS TO BE APPROVED BY CEC**



**ELEVATION**

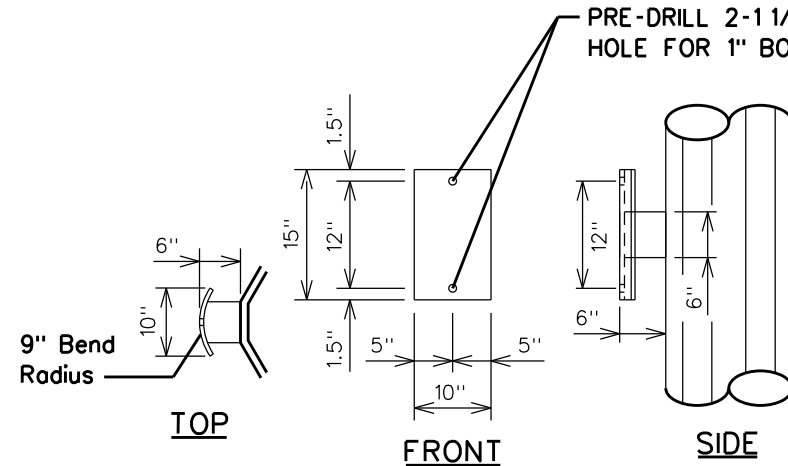


**DETAIL "A"**

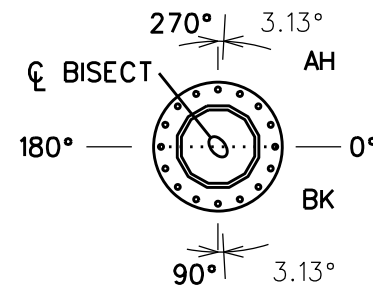


**DETAIL "B" CONDUCTOR DEADEND**

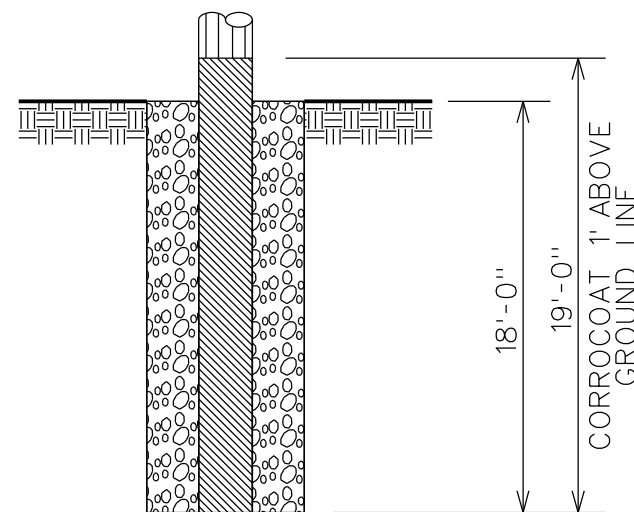
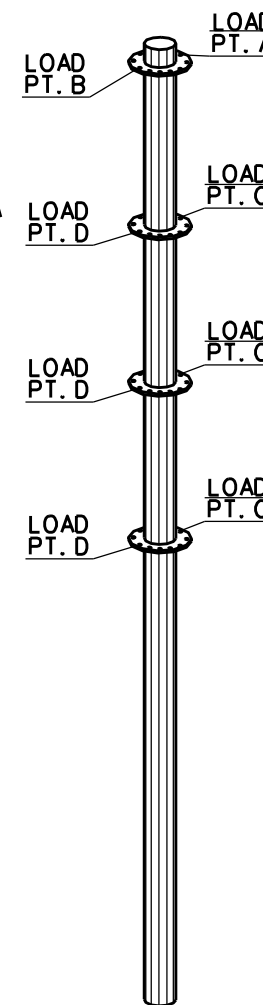
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**BRACKET DETAIL**



**ORIENTATION PLAN**



**DETAIL "C" CORROCOAT**

	DESIGN	TC(CEC)	PROJECT:	WAYNOKA 24kV/69kV RELOCATE
	DRAWN	TC(CEC)	TITLE:	STR. #10/2 LOADS
	CHECKED	JRB(CEC)	SHEET NO.	1 OF 1

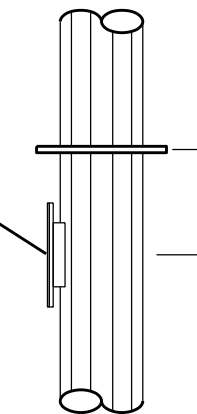
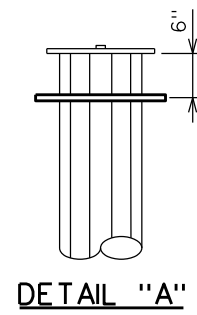
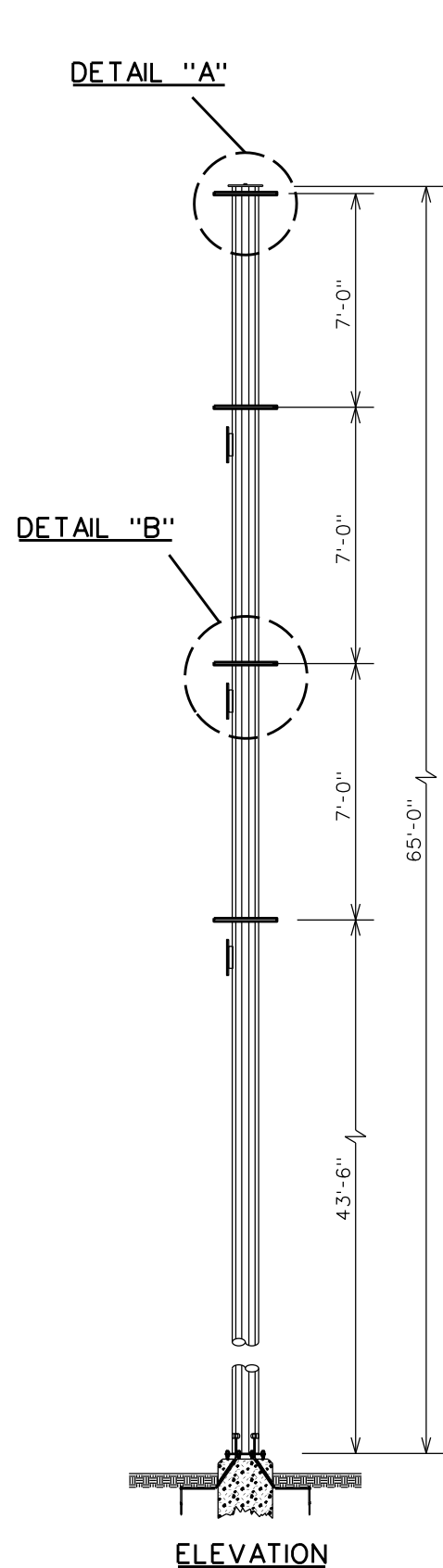
**LOADING CRITERIA**

LOAD CASE	TEMP F°	RADIAL ICE, IN.	WIND PSF	LOAD FACTORS		
				VERTICAL	WIND	TENSION
1. NESC HEAVY	0	.5	4	1.5	2.5	1.65
2. EXTREME WIND	60	0	23.1	1	1	1
3. CONCURRENT	15	1	4.1	1	1	1
4. DEFLECTION	60	0	1	1	1	1

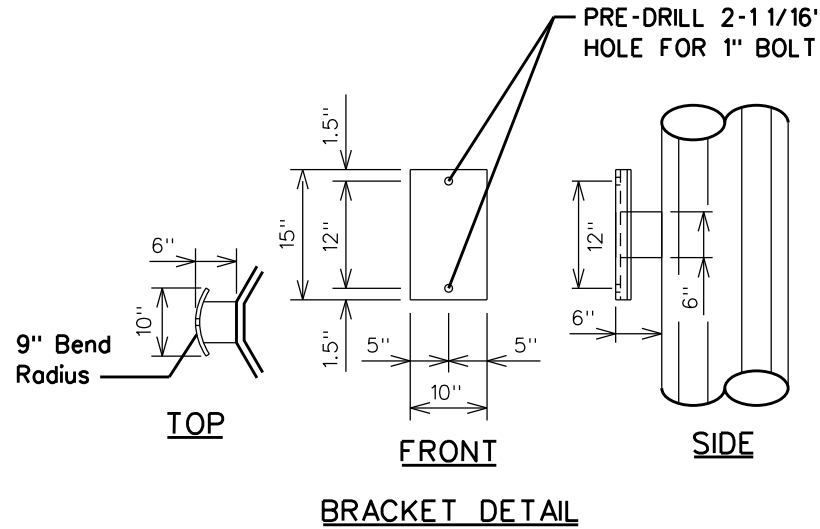
**LOADING TABLE**

LOAD CASE	LOAD PT. A, 1 PLACE			LOAD PT. B, 1 PLACE		
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP
1. NESC HEAVY	0.6	0.2	-4.8	-0.5	0.3	8.4
2. EXTREME WIND	0.3	0.1	-2.1	-0.4	0.2	3.5
3. CONCURRENT	0.7	0.1	-3.5	-0.5	0.2	6.8
4. DEFLECTION	0.3	0.1	-1.8	-0.2	-0.1	1.9

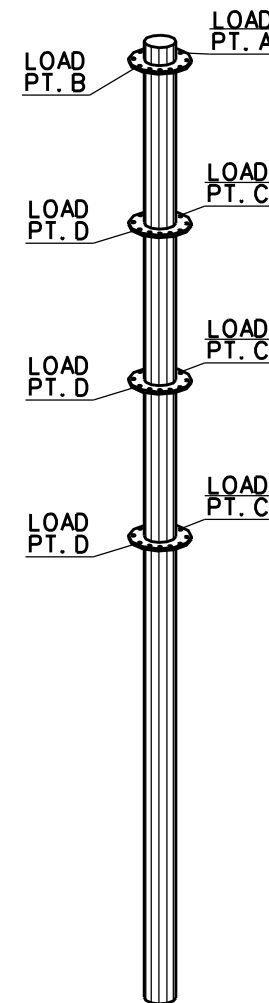
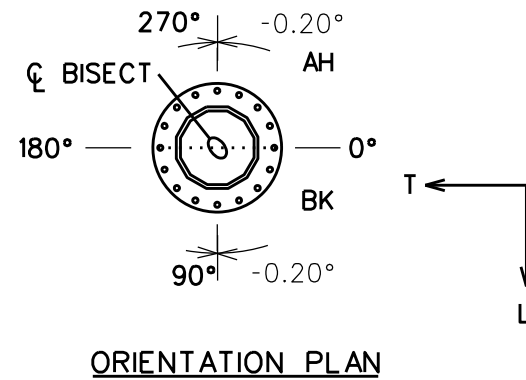
LOAD CASE	LOAD PT. C, 3 PLACES			LOAD PT. D, 3 PLACES			STRUCTURE	
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP	W, PSF	K
1. NESC HEAVY	0.8	0.3	-5.5	-0.5	0.5	9.6	10	1.5
2. EXTREME WIND	0.4	0.3	-2.6	-0.5	0.4	5.0	23.1	1
3. CONCURRENT	0.9	0.2	-4.1	-0.4	0.4	7.9	4.1	1
4. DEFLECTION	0.3	0.1	-1.4	-0.1	-0.1	2.0	1	1



**DETAIL "B" CONDUCTOR DEADEND**



BRACKET PER  
DETAIL THIS  
SHEET

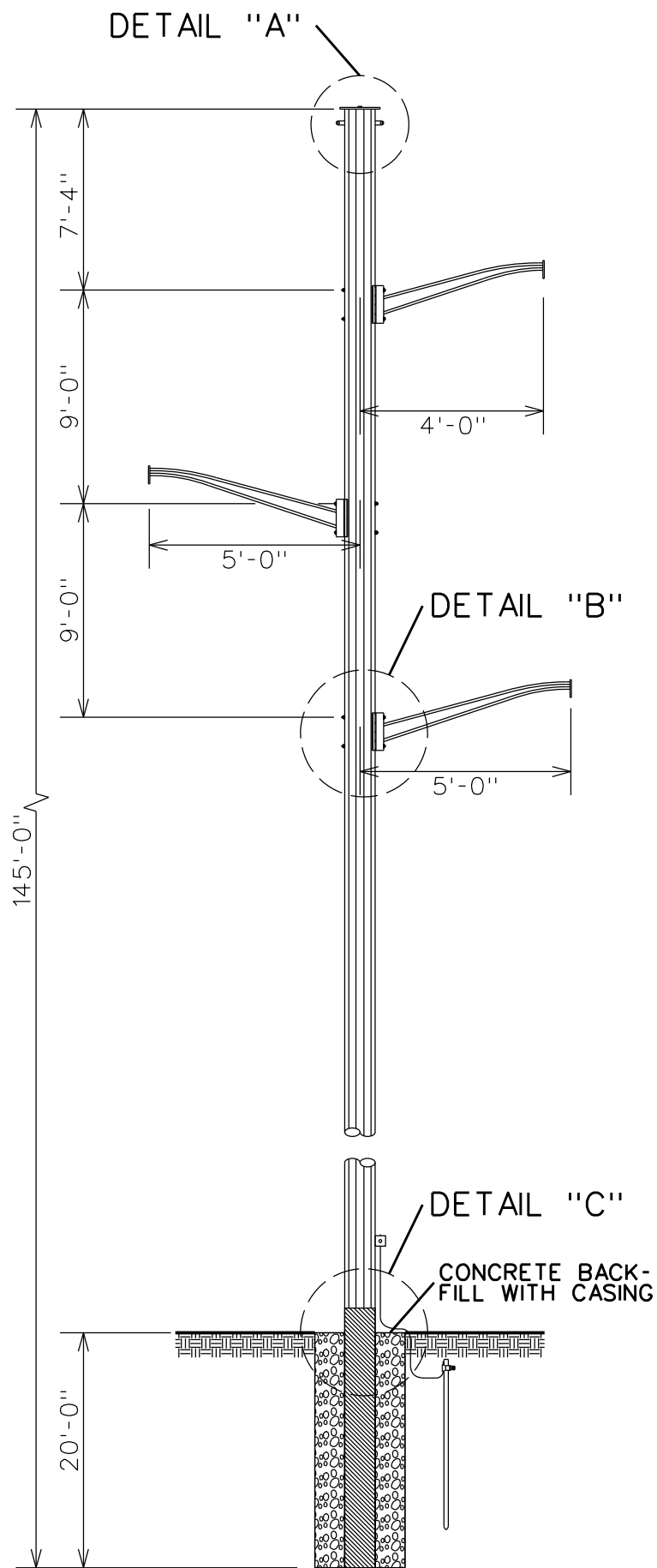


**NOTES:**

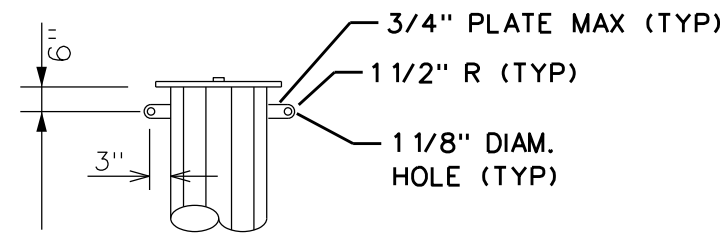
1. THE INDICATED LOADS ARE ULTIMATE LOADS WHICH INCLUDE ALL OVERLOAD CAPACITY FACTORS.
  2. V, T & L ARE RESPECTIVELY, THE VERTICAL, TRANSVERSE, AND LONGITUDINAL WIRE LOADS. WEIGHT OF THE INSULATORS ARE INCLUDED.
  3. WIND BLOWING ALONG THE BISECT TOWARDS 0°. "W" IS THE WIND PRESSURE INCLUDING LOAD FACTORS TO BE APPLIED TO THE STRUCTURE. THESE WIND PRESSURES SHALL BE MULTIPLIED BY THE SHAPE FACTOR LISTED BELOW. "K" IS THE LOAD FACTOR BY WHICH THE DEAD LOAD OF THE STRUCTURE SHALL BE MULTIPLIED.
- | CROSS SECTION | SHAPE FACTOR |
|---------------|--------------|
| CIRCULAR      | 1.0          |
| 12-SIDED POLY | 1.0          |
| OCTAGONAL     | 1.2          |
| SQUARE        | 1.6          |
4. LIMIT POLE TOP DEFLECTION TO 6" FOR DEFLECTION LOAD CASE.
  5. DESIGN LOAD CASES 1-3 WITH ALL LOAD POINTS INTACT, WITH ONLY BACK LOADS B & D AND ONLY AHEAD LOADS A & C.
  6. ANCHOR BOLT TEMPLATE TO BE NO LARGER THAN 50" OUTSIDE DIAMETER.

**FINAL DRAWINGS TO BE APPROVED BY CEC**

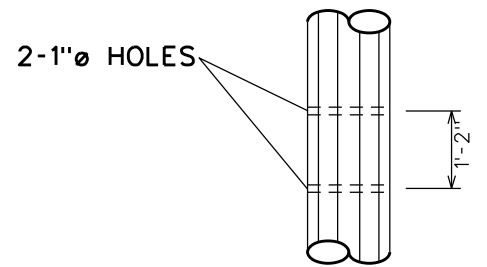
	DESIGN	TC(CEC)	PROJECT:	WAYNOKA 24kV/69kV RELOCATE
	DRAWN	TC(CEC)	TITLE:	STRS. #10/8 & #10/11 LOADS
	CHECKED	JRB(CEC)	SHEET NO.	1 OF 1



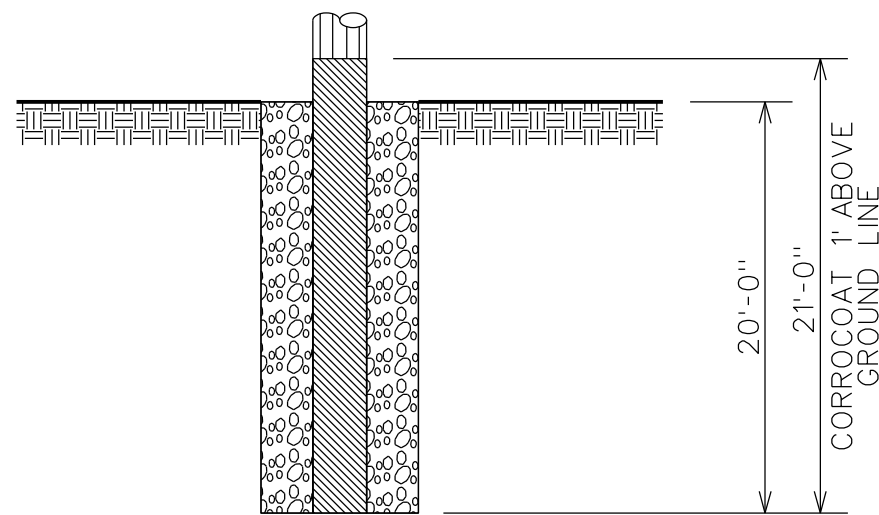
**ELEVATION**



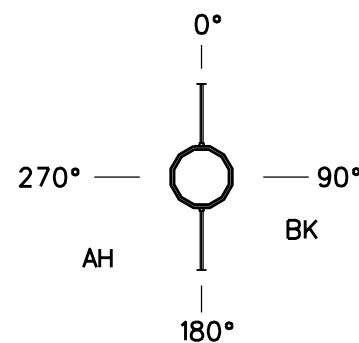
**DETAIL "A"  
SHIELD WIRE VANG**



**DETAIL "B"  
DAVIT ARM HOLES**



**DETAIL "C"  
CORROCOAT**



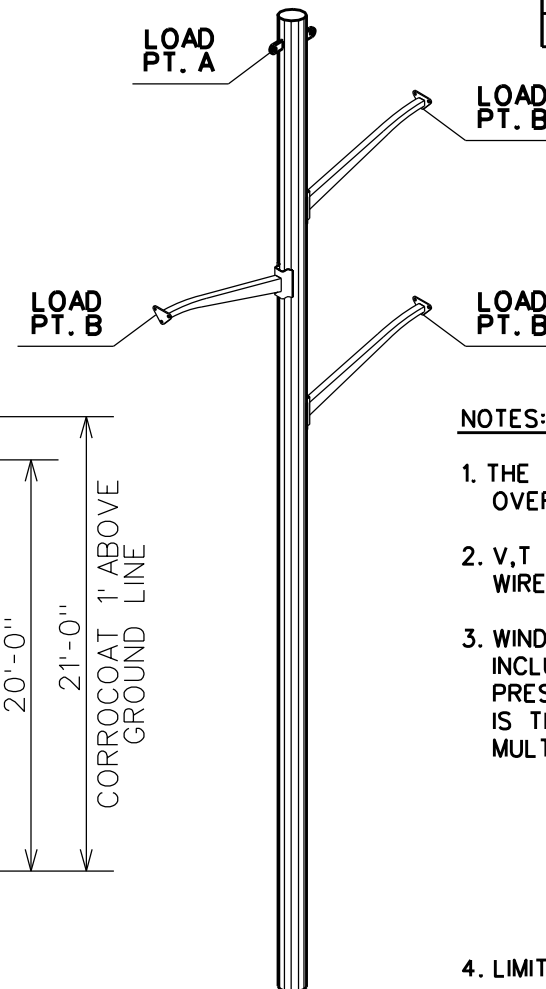
**ORIENTATION PLAN**

**LOADING CRITERIA**

LOAD CASE	TEMP F°	RADIAL ICE, IN.	WIND PSF	LOAD FACTORS		
				VERTICAL	WIND	TENSION
1. NESC HEAVY	0	.5	4	1.5	2.5	1.65
2. EXTREME WIND	60	0	23.1	1	1	1
3. CONCURRENT	15	1	4.1	1	1	1
4. DEFLECTION	60	0	1	1	1	1

**LOADING TABLE**

LOAD CASE	LOAD PT. A, 1 PLACE			LOAD PT. B, 1 PLACE		
	V, KIP	T, KIP	L, KIP	V, KIP	T, KIP	L, KIP
1. NESC HEAVY	1.8	-1.2	-0.1	2.6	-1.6	-0.1
2. EXTREME WIND	0.8	-0.7	-0.1	1.1	-1.4	-0.1
3. CONCURRENT	2.7	-0.9	-0.1	3.4	-1.1	-0.1
4. DEFLECTION	0.5	-0.1	0.1	0.8	-0.2	-0.1



**NOTES:**

1. THE INDICATED LOADS ARE ULTIMATE LOADS WHICH INCLUDE ALL OVERLOAD CAPACITY FACTORS.
2. V, T & L ARE RESPECTIVELY, THE VERTICAL, TRANSVERSE, AND LONGITUDINAL WIRE LOADS. WEIGHT OF THE INSULATORS ARE INCLUDED.
3. WIND BLOWING ALONG THE BISECT TOWARDS 0°. "W" IS THE WIND PRESSURE INCLUDING LOAD FACTORS TO BE APPLIED TO THE STRUCTURE. THESE WIND PRESSURES SHALL BE MULTIPLIED BY THE SHAPE FACTOR LISTED BELOW. "K" IS THE LOAD FACTOR BY WHICH THE DEAD LOAD OF THE STRUCTURE SHALL BE MULTIPLIED.
4. LIMIT POLE TOP DEFLECTION TO 12" FOR DEFLECTION LOAD CASE.
5. DESIGN LOAD CASES 1-3 WITH ALL LOAD POINTS INTACT, WITH ONLY BACK LOADS B & D AND ONLY AHEAD LOADS A & C.

CROSS SECTION	SHAPE FACTOR
CIRCULAR	1.0
12-SIDED POLY	1.0
OCTAGONAL	1.2
SQUARE	1.6

**FINAL DRAWINGS TO BE APPROVED BY CEC**

145 CUSTOM POLE

	DESIGN	TC(CEC)	PROJECT:	WAYNOKA 24kV/69kV RELOCATE
	DRAWN	TC(CEC)	TITLE:	TUS-1 (STR. 10/9 & 10/10)
	CHECKED	JRB(CEC)	SHEET NO.	1 OF 1



NON-COLLUSION AFFIDAVIT

STATE OF \_\_\_\_\_ )  
 ) SS  
COUNTY OF \_\_\_\_\_ )

A. For purposes of competitive bids, I certify:

1. I am the duly authorized agent of \_\_\_\_\_, the bidder submitting the competitive bid which is attached to this statement, for the purpose of certifying the facts pertaining to the existence of collusion among bidders and between bidders and state officials or employees of the Oklahoma Municipal Power Authority, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached;

2. I am fully aware of the facts and circumstances surrounding the making of the bid to which this statement is attached and have been personally and directly involved in the proceedings leading to the submission of such bid; and

3. Neither the bidder nor anyone subject to the bidder's direction or control has been a party:

- a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding,
- b. to any collusion with any state official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract,
- c. in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract, nor
- d. to any collusion with any state agency or political subdivision official or employee as to create a sole-source acquisition in contradiction to Section 85.45j.1 of Title 74 of the Oklahoma Statutes.

B. I certify, if awarded the contract, whether competitively bid or not, neither the contractor nor anyone subject to the contractor's direction or control has paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma or the Oklahoma Municipal Power Authority any money or other thing of value, either directly or indirectly, in procuring the contract to which this statement is attached.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires:  
\_\_\_\_\_

BUSINESS RELATIONSHIPS AFFIDAVIT

STATE OF \_\_\_\_\_ )  
 ) SS  
COUNTY OF \_\_\_\_\_ )

\_\_\_\_\_, of lawful age, being first duly sworn, on oath says that (s)he is the agent authorized by the Bidder to submit the attached bid. Affiant further states that the name of any partnership, joint venture, or other business relationship presently in effect or which existed within one (1) year prior to the date of this statement with the architect, engineer, or other party to the project is as follows:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Affiant further states that any such business relationship presently in effect or which existed within one (1) year prior to the date of this statement between any officer or director of the bidding company and any officer or director of the architectural or engineering firm or other party to the project is as follows:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Affiant further states that the names of all persons having any such business relationships and the positions they hold with their respective companies or firms are as follows:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(If none of the business relationships hereinabove mentioned exist, affiant should so state.)

\_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_