

# CITY OF HIGH POINT

## AGENDA ITEM

<b>TITLE:</b> Penny to Deep River 100kV Transmission Hardware/Wire	
<b>FROM:</b> Tyler Berrier, PE – Electric Utilities Director	<b>MEETING DATE:</b> May 6, 2024
<b>PUBLIC HEARING:</b> No	<b>ADVERTISED DATE/BY:</b> Sourcewell – 091422-WES
<b>ATTACHMENTS:</b> Line Post Insulator – HP-80DD Line Post Insulator – HP-70AD Suspension Insulator – T112-YB Sourcewell Quote – 091422-WES	

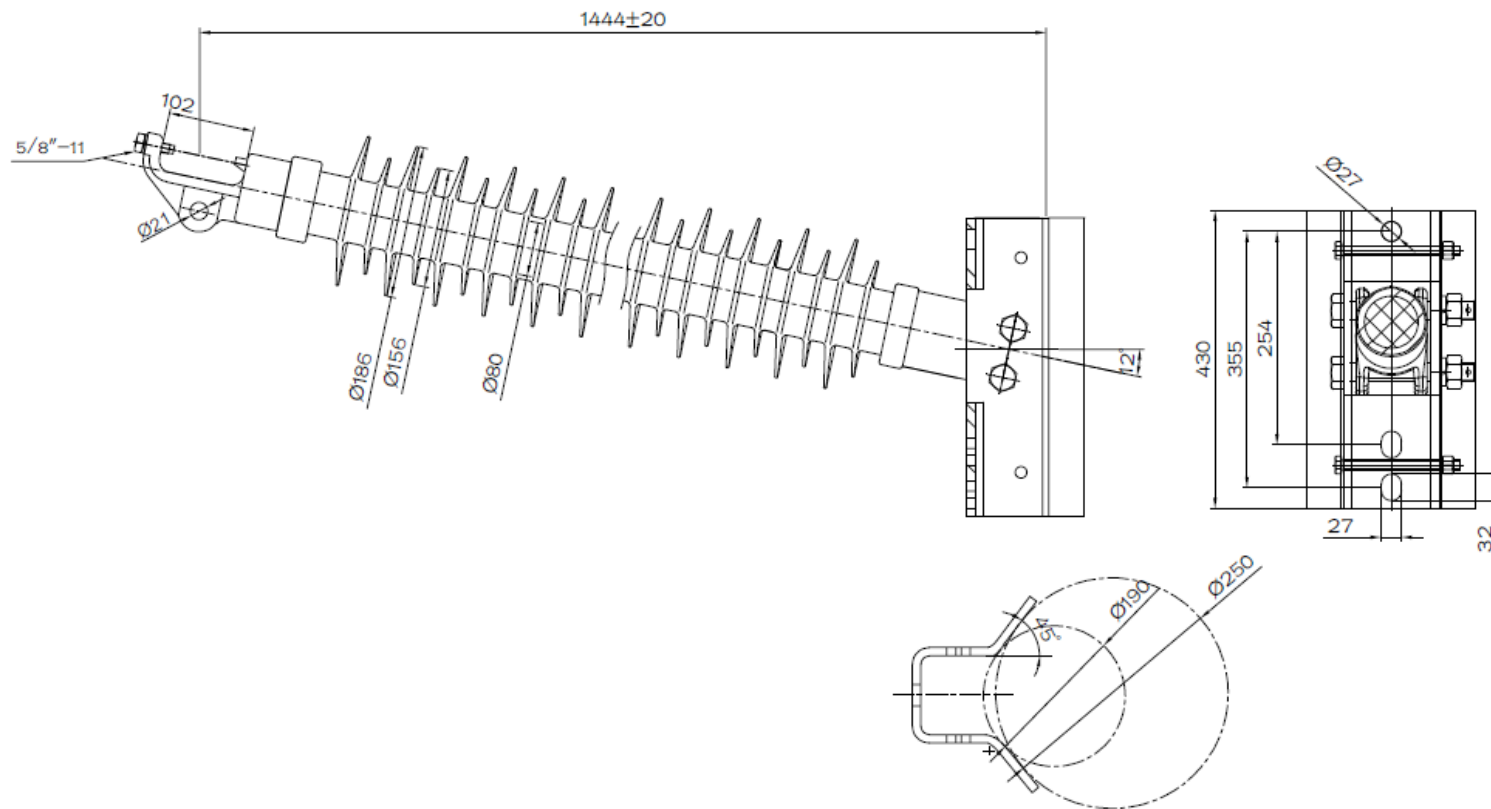
**PURPOSE:** The City is procuring materials (wire and pole hardware) for steel poles to build a 100kV Transmission line from Penny Substation to Deep River Substation.

**BACKGROUND:** The Electric Department is procuring materials to be used on the Penny to Deep River 100kV project (project is in the Electric CIP). The Warehouse Division of the Finance Department is utilizing our Sourcewell contract to procure materials for this project, and the Electric Department will self-perform the work after foundations are installed. This is the last remaining section of our 100kV 'loop' for our transmission network. Completion of this section will allow the Electric Department to feed electrical infrastructure from various sources and provide flexibility with future project work.

**BUDGET IMPACT:** Funds are included in the Electric capital budget to cover this project.

**RECOMMENDATION/ACTION REQUESTED:** Staff are recommending that City Council approve, and the department be given the ability to procure these materials. The department is recommending that the bid for these poles be awarded to Wesco, Inc. for \$362,186.01 and authorize the appropriate City Official(s) to execute all necessary documents.





### DIMENSIONS

LEAKAGE DISTANCE	mm	3,400
DRY ARCTING DISTANCE	mm	1,168

### MECHANICAL VALUES

SPECIFIED CANTILEVER LOAD (SCL)	kN	25
ROUTING TENSILE LOAD (RTL)	kN	22

### ELECTRICAL VALUES


RATED VOLTAGE	kV	138
LOW FREQUENCY FLASHOVER, DRY	kV	490
LOW FREQUENCY FLASHOVER, WET	kV	460
IMPULSE FLASHOVER, POSITIVE	kV	760
IMPULSE FLASHOVER, NEGATIVE	kV	830

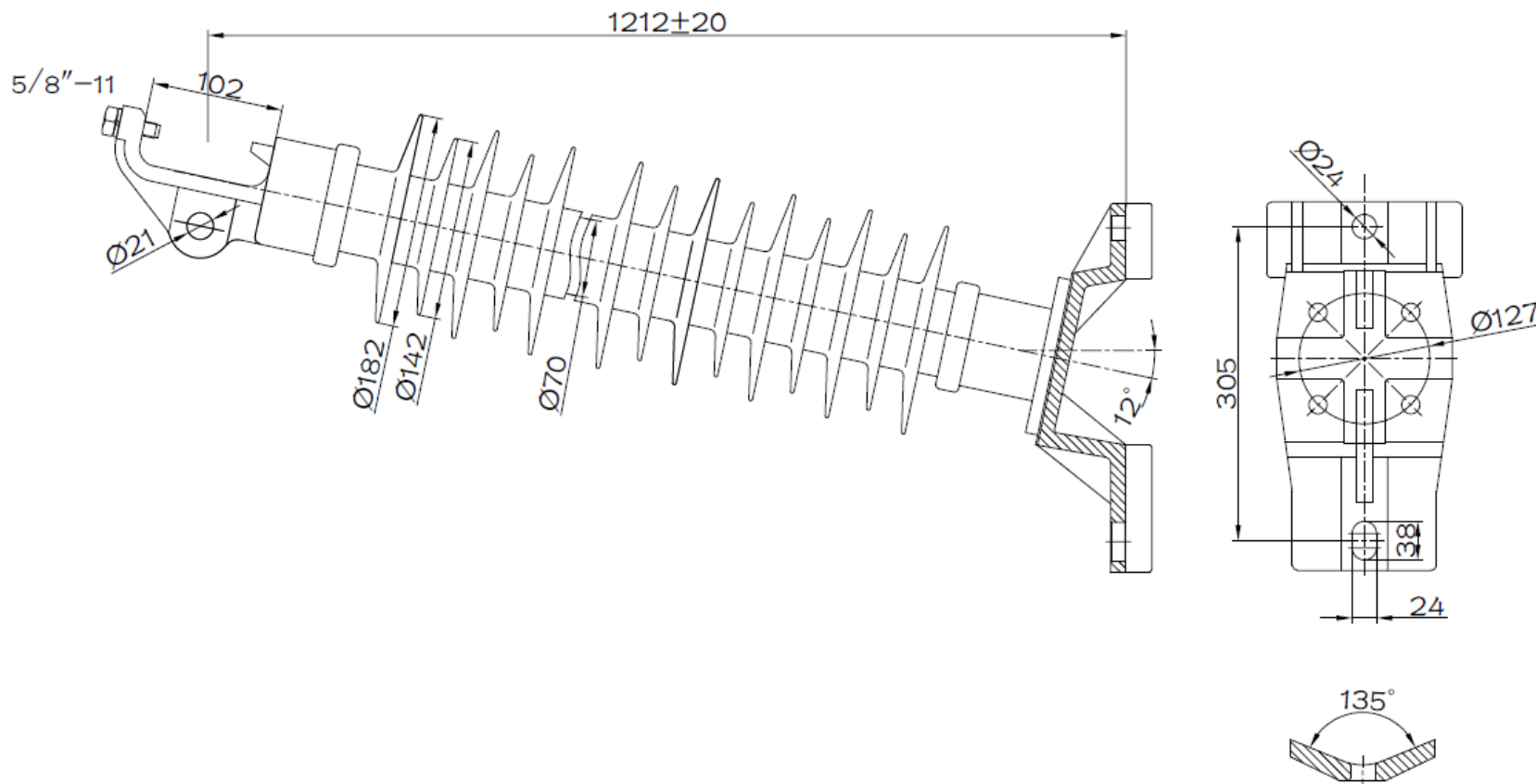
### PACKING INFORMATION

NET WEIGHT	kg	40
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**APPROVED**

By A. Schwalm at 11:04 am, Mar 20, 2024

DATE	03-20-24	TM
SYSTEM VOLTAGE: 138 kV		
LINE POST		
HP-80DD-1444-3400-XX		
 <b>Victor Insulators, Inc.</b> 280 Maple Avenue Victor, New York, 14564 Telephone: (585)924-2127 www.victorinsulators.com		

**DIMENSIONS**

LEAKAGE DISTANCE	mm	2,625
DRY ARCTING DISTANCE	mm	980

**MECHANICAL VALUES**

SPECIFIED CANTILEVER LOAD (SCL)	kN	17
ROUTING TENSILE LOAD (RTL)	kN	22.2

**ELECTRICAL VALUES**


RATED VOLTAGE	kV	115
LOW FREQUENCY FLASHOVER, DRY	kV	425
LOW FREQUENCY FLASHOVER, WET	kV	370
IMPULSE FLASHOVER, POSITIVE	kV	640
IMPULSE FLASHOVER, NEGATIVE	kV	715

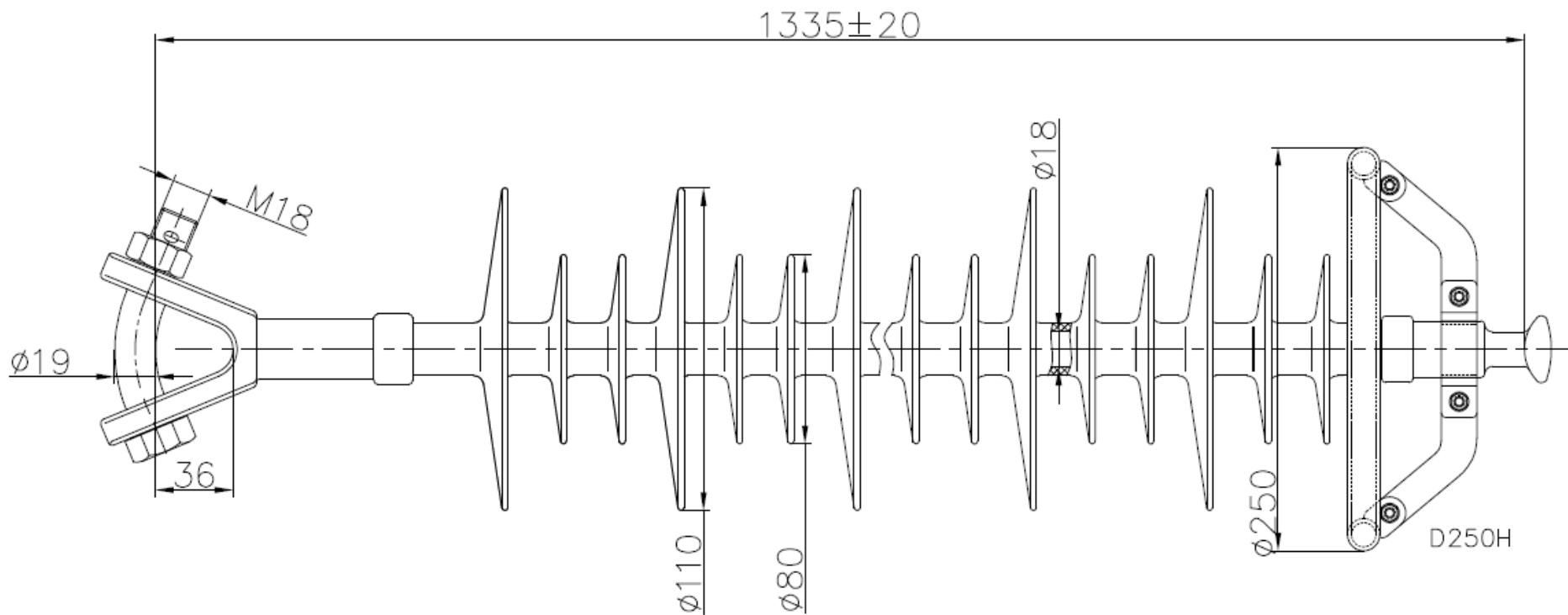
**PACKING INFORMATION**

NET WEIGHT	kg	20
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**APPROVED**

By A. Schwalm at 11:04 am, Mar 20, 2024

DATE	03-20-24	TM
SYSTEM VOLTAGE: 115 kV		
LINE POST		
HP-70AD-1212-2625-XX		
 <b>Victor Insulators, Inc.</b> 280 Maple Avenue Victor, New York, 14564 Telephone: (585)924-2127 <a href="http://www.victorinsulators.com">www.victorinsulators.com</a>		



DIMENSIONS

LEAKAGE DISTANCE	mm	3,100
DRY ARCING DISTANCE	mm	1,094
ANSI BALL AND SOCKET SIZE	J	

MECHANICAL VALUES

SPECIFIED MECHANICAL LOAD(SML)	kN	112
ROUTINE TEST LOAD(RTL)	kN	56

APPROVED

By A. Schwalm at 7:34 am, Mar 26, 2024

ELECTRICAL VALUES

RATED VOLTAGE	kV	115
LOW FREQUENCY FLASHOVER, DRY	kV	460
LOW FREQUENCY FLASHOVER, WET	kV	435
IMPULSE FLASHOVER, POSITIVE	kV	730
IMPULSE FLASHOVER, NEGATIVE	kV	760

PACKING INFORMATION

NET WEIGHT	kg	3.8
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DATE 03-22-24

TM

SYSTEM VOLTAGE: 115 kV

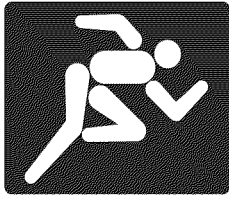
SUSPENSION

T112-YB-1335-3100-AA



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Victor, New York, 14564  
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**WESCO**  
DISTRIBUTION®

334 ATKINSON STREET

CLAYTON

NC 27520

**Quotation**

UNLESS THERE ARE DIFFERENT OR ADDITIONAL TERMS AND CONDITIONS CONTAINED IN A MASTER AGREEMENT THAT MODIFY WESCO'S STANDARD TERMS, BUYER AGREES THAT THIS QUOTE AND ANY RESULTING PURCHASE ORDER WILL BE GOVERNED BY WESCO'S TERMS AND CONDITIONS AVAILABLE AT [HTTP://WWW.WESCO.COM/TERMS AND CONDITIONS OF SALE.PDF](http://www.wesco.com/terms_and_conditions_of_sale.pdf), WHICH TERMS ARE INCORPORATED HEREIN BY REFERENCE AND MADE PART HEREOF. PLEASE CONTACT THE SELLER IDENTIFIED ON THIS QUOTE IF YOU REQUIRE A PRINTED COPY.

To: CITY OF HIGH POINT  
657 E RUSSELL AVE  
SOURCEWELL 091422-WES  
HIGH POINT NC 27260

Date: 04/04/24

Branch: 7884

Project Number: PENNY ROAD

Project Name

Quoted To:

Date of Your Inquiry: 03/12/24

When ordering please refer to Quotation Number: 788769

Item	Quantity	Catalog Number and Description	Unit Price	U/M	Total Price	Rate of Cash Discount	Shipping Time (Weeks)	Customer Delivery Date
10	50148	PWC 1272AAC-61STR 1227KCMIL CBL 14 X 3,582 # REEL(S) NR 66X32X36 STEEL REELS	2.590	E	129883.32	0.00		09/09/24
20	180	AFL*TS14*EACH*#TS14, QUICK COMPRESS TERMINAL FOR AAC CONDUCTOR, STRAIGHT, TS SERIES	67.250	E	12105.00	0.00		10/31/24
30	80	AFL*HCT1295*EACH*HIBUS TRUNION CLAMP RANGE 1.295-1.349	117.250	E	9380.00	0.00		10/31/24
41	175	AFL VESE-140 DE ST	181.210	E	31711.75	0.00		10/31/24
51	500	LINE SLN34 3/4 LOCKNUT	0.400	E	200.00	0.00		04/30/24
61	170	HPS SC30 HARDWARE FITTING	29.050	E	4938.50	0.00		05/03/24
102	60	PLP*AGS-5238*EACH*ARMOR-GRIP SUPPORT (RHL)1.287-1.314	191.300	E	11478.00	0.00		06/07/24
113	500	LINE SWF-225B 2-1/4X3/16 SQUARE	0.700	E	350.00	0.00		05/03/24
123	300	MPS J3541 WASHER SPRING	8.500	E	2550.00	0.00		08/30/24
133	75	LINE MB-3424 3/4 X 24 MACHINE	6.750	E	506.25	0.00		05/03/24
143	75	LINE*MB-3426*EACH*3/4X26 MACHINE BOLT	7.250	E	543.75	0.00		05/03/24

F.O.B. Point of Shipment. The prices stated in this offer shall, unless renewed, automatically expire fifteen days (15) from the date of this offer. Prices quoted are subject to adjustment should Duty and Tariff rates change from time of bid/quotation to time of order. WESCO reserves the right to adjust its pricing for Goods affected directly or indirectly by changing duties/tariffs/trade agreements and significant currency fluctuations.  
Per:



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153	75	HPS 8928 .750X28 MACH SQH BOLT	14.140	E	1060.50	0.00		04/30/24
163	75	HPS 8930 0.75X30 MCH BOLT	29.500	E	2212.50	0.00		04/30/24
173	180	LINE YCE-30-90 30000 LB Y-CLEVIS	10.750	E	1935.00	0.00		05/03/24
183	50	HPS SWL022B BRONZE TERMINAL	61.800	E	3090.00	0.00		10/31/24
193	50	HPS GC10301 MISC&GROUNDING-CONN	32.500	E	1625.00	0.00		10/31/24
203	50	ERC 615880 GR RODPTDCU-BONDNOM 5/8I	19.250	E	962.50	0.00		04/30/24
213	14000	NATSTR 38GFEX7855C0500 GUYWIRE	0.580	E	8120.00	0.00		04/30/24
223	50	LINE*GR-588C*EACH*5/8X8' COPPER GROUND ROD	23.000	E	1150.00	0.00		05/03/24
233	60	LINE*QSC-552-C*EACH*QUADRANT STRAIN CLAMP 2 BOLT W/ CLEVIS FITTING	21.500	E	1290.00	0.00		05/03/24
243	75	LINE AS-3 35000 LB ANCHOR SHACKLE	7.110	E	533.25	0.00		05/03/24
254	125	WIRE BARE-SD-2-SOL-CU-125R WIRE	1810.000	M	226.25	0.00		04/30/24
264	24	PFRM AGS-7104	49.500	E	1188.00	0.00		06/14/24
274	100	HPS VAUL112 COMPRESSION LUG	4.500	E	450.00	0.00		05/03/24

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315	250	T&B K1 JUMPRCLMP 1 WIRE GROOV PLTD	4.050	E	1012.50	0.00		05/10/24
325	450	OKON 161-23-3069 15KV 1/0SOL 220	4880.000	M	2196.00	0.00		04/30/24
335	100	MPS TG-820 TANK GROUND 820	5.500	E	550.00	0.00		04/30/24
345	250	BBI*770075-BR*EACH*3/4"-10X10' A307 GRADE A ALL THREAD RODS HDG	25.400	E	6350.00	0.00		05/17/24
355	250	BBI*238042-BR*EACH*3/4"-10 SQUARE NUTS GRADE 2 HDG	360.000	M	90.00	0.00		05/17/24
366	60	V-I**EACH*HP-80DD-1444-3400-XX-SI LICONE LINE POST	598.690	E	35921.40	0.00		08/23/24
376	85	V-I**EACH*HP-70AD-1212-2625-XX - SILICONE LINE POST	518.930	E	44109.05	0.00		08/23/24
386	180	V-I**EACH*T112-YB-1335-3100-LA - SILICONE SUSPENSION	119.810	E	21565.80	0.00		08/23/24
SUB-TOTAL					339284.32			
ESTIMATED TAX					22901.69			
TOTAL					362186.01			

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