

Purchasing Divison 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

#### State of West Virginia Request for Quotation 13 — Equipment

Proc Folder: 739	9235
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Doc Description: HIGH POWER VHF TV TRANSMIT ANTENNA

Proc Type: Central Purchase Order

 
 Date Issued
 Solicitation Closes
 Solicitation No
 Version

 2020-06-26
 2020-07-14 13:30:00
 CRFQ
 0439 EBA2000000029
 1

BID RECEIVING LOCATION

**BID CLERK** 

**DEPARTMENT OF ADMINISTRATION** 

**PURCHASING DIVISION** 

2019 WASHINGTON ST E

CHARLESTON

WV

25305

RECEIVED

2020 JUL 13 AM 10: 36

WV + U. U. WONG

VENDOR

US

Vendor Name, Address and Telephone Number:

FOR INFORMATION CONTACT THE BUYER

Dusty J Smith (304) 558-2063 dusty.j.smith@wv.gov

Signature X

FEIN#

DATE

All offers subject to all terms and conditions contained in this solicitation

#### ADDITIONAL INFORMATION:

ONE TIME

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, EDUCATIONAL BROADCASTING AUTHORITY, IS SOLICITING BIDS FOR THE ONE-TIME PURCHASE OF HIGH POWER VHF TV TRANSMIT ANTENNA PER THE ATTACHED DOCUMENTS.

QUESTIONS REGARDING THE SOLICITATION MUST BE SUBMITTED IN WRITING TO DUSTY. J. SMITH@WV.GOV PRIOR TO THE QUESTION PERIOD DEADLINE CONTAINED IN THE INSTRUCTIONS TO VENDORS SUBMITTING BIDS.

\*\*\*\*PLEASE NOTE MAKE SURE YOU DOWNLOAD BOTH OF THE SOLICITATIONS \*\*\*\*

INVOICE TO		SHIP TO	
CHIEF FINANCIAL OFF	ICER	SITE MANAGER	
EDUCATIONAL BROAD		EDUCATIONAL BROAD	DCASTING
		124 INDUSTRIAL PARK	C RD
BEAVER	WV 25813	BEAVER	WV 25813
us		us	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	HIGH POWER VHF TV TRANSMIT ANTENNA	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #	
43221703				

#### **Extended Description:**

HIGH POWER VHF TV TRANSMIT ANTENNA

#### SCHEDULE OF EVENTS

Line	Event	<b>Event Date</b>
1	TECHNICAL QUESTIONS DUE AT 10AM	2020-07-06

### INSTRUCTIONS TO VENDORS SUBMITTING BIDS

- 1. REVIEW DOCUMENTS THOROUGHLY: The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.
- 2. MANDATORY TERMS: The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.

3. PREBID MEETING: The item identified below shall apply to this Solicitation.
A pre-bid meeting will not be held prior to bid opening
A MANDATORY PRE-BID meeting will be held at the following place and time:

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing.

Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting Revised 01/09/2020

are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. VENDOR QUESTION DEADLINE: Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below in order to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are nonbinding.

Submitted e-mails should have solicitation number in the subject line.

Question Submission Deadline: July 6th, 2020 due at 10am

Submit Questions to: Dusty Jo Smith

2019 Washington Street, East

Charleston, WV 25305

Fax: (304) 558-4115 (Vendors should not use this fax number for bid submission)

Email: Dusty.j.Smith@wv.gov

- 5. VERBAL COMMUNICATION: Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.
- 6. BID SUBMISSION: All bids must be submitted electronically through wvOASIS or signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via e-mail. Acceptable delivery methods include electronic submission via wvOASIS, hand delivery, delivery by courier, or facsimile.

The bid delivery address is:
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

A bid that is not submitted electronically through wvOASIS should contain the information listed below on the face of the envelope or the bid may be rejected by the Purchasing Division.:

SEALED BID: HIGH POWER VHF TV TRANSMIT ANTENNA

BUYER: DUSTY JO SMITH

SOLICITATION NO.: CRFQ EBA2000000029 BID OPENING DATE: JULY 14TH, 2020

BID OPENING TIME: 1:30PM FAX NUMBER: 304-558-3970

The Purchasing Division may prohibit the submission of bids electronically through wvOASIS at its sole discretion. Such a prohibition will be contained and communicated in the wvOASIS system resulting in the Vendor's inability to submit bids through wvOASIS. Submission of a response to an Expression or Interest or Request for Proposal is not permitted in wvOASIS.

For Request For Proposal ("RFP") Responses Only: In the event that Vendor is responding
to a request for proposal, the Vendor shall submit one original technical and one original cost
proposal plus N/A convenience copies of each to the Purchasing Division at the
address shown above. Additionally, the Vendor should identify the bid type as either a technical
or cost proposal on the face of each bid envelope submitted in response to a request for proposal as follows:
BID TYPE: (This only applies to CRFP)
☐ Technical
□ Cost

7. BID OPENING: Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by wvOASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery).

Bid Opening Date and Time: JULY 14TH, 2020 1:30PM

Bid Opening Location: Department of Administration, Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

- 8. ADDENDUM ACKNOWLEDGEMENT: Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.
- 9. BID FORMATTING: Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.
- 10. ALTERNATE MODEL OR BRAND: Unless the box below is checked, any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the

Revised 01/09/2020

equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.

This Solicitation is based upon a standardized commodity established under W. Va. Code § 5A-3-61. Vendors are expected to bid the standardized commodity identified. Failure to bid the standardized commodity will result in your firm's bid being rejected.

- 11. EXCEPTIONS AND CLARIFICATIONS: The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.
- 12. COMMUNICATION LIMITATIONS: In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.
- 13. REGISTRATION: Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee, if applicable.
- 14. UNIT PRICE: Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.
- 15. PREFERENCE: Vendor Preference may be requested in purchases of motor vehicles or construction and maintenance equipment and machinery used in highway and other infrastructure projects. Any request for preference must be submitted in writing with the bid, must specifically identify the preference requested with reference to the applicable subsection of West Virginia Code § 5A-3-37, and must include with the bid any information necessary to evaluate and confirm the applicability of the requested preference. A request form to help facilitate the request can be found at: <a href="http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf">http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf</a>.
- 15A. RECIPROCAL PREFERENCE: The State of West Virginia applies a reciprocal
- preference to all solicitations for commodities and printing in accordance with W. Va. Code § 5A-3-37(b). In effect, non-resident vendors receiving a preference in their home states, will see that same preference granted to West Virginia resident vendors bidding against them in West Virginia. Any request for reciprocal preference must include with the bid any information necessary to evaluate and confirm the applicability of the preference. A request form to help facilitate the request can be found at: <a href="http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf">http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf</a>.
- 16. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES: For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, womenowned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or

minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.

- 17. WAIVER OF MINOR IRREGULARITIES: The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.
- 18. ELECTRONIC FILE ACCESS RESTRICTIONS: Vendor must ensure that its submission in wvOASIS can be accessed and viewed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately accessed and viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires, and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening to make a file viewable if those documents are required with the bid. A Vendor may be required to provide document passwords or remove access restrictions to allow the Purchasing Division to print or electronically save documents provided that those documents are viewable by the Purchasing Division prior to obtaining the password or removing the access restriction.
- 19. NON-RESPONSIBLE: The Purchasing Division Director reserves the right to reject the bid of any vendor as Non-Responsible in accordance with W. Va. Code of State Rules § 148-1-5.3, when the Director determines that the vendor submitting the bid does not have the capability to fully perform, or lacks the integrity and reliability to assure good-faith performance."
- 20. ACCEPTANCE/REJECTION: The State may accept or reject any bid in whole, or in part in accordance with W. Va. Code of State Rules § 148-1-4.5. and § 148-1-6.4.b."
- 21. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

- 22. INTERESTED PARTY DISCLOSURE: West Virginia Code § 6D-1-2 requires that the vendor submit to the Purchasing Division a disclosure of interested parties to the contract for all contracts with an actual or estimated value of at least \$1 Million. That disclosure must occur on the form prescribed and approved by the WV Ethics Commission prior to contract award. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.
- 23. WITH THE BID REQUIREMENTS: In instances where these specifications require documentation or other information with the bid, and a vendor fails to provide it with the bid, the Director of the Purchasing Division reserves the right to request those items after bid opening and prior to contract award pursuant to the authority to waive minor irregularities in bids or specifications under W. Va. CSR § 148-1-4.6. This authority does not apply to instances where state law mandates receipt with the bid.

#### **GENERAL TERMS AND CONDITIONS:**

- 1. CONTRACTUAL AGREEMENT: Issuance of a Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.
- 2. **DEFINITIONS:** As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.
- 2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.
- 2.2. "Bid" or "Proposal" means the vendors submitted response to this solicitation.
- 2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.
- 2.4. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.
- 2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.
- 2.6. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.
- 2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.
- 2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
- 2.9. "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

determined in accordance with the category that has been identified as applicable to this Contract below:
☐ Term Contract
Initial Contract Term: Initial Contract Term: This Contract becomes effective on and extends for a period of year(s).
Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)
Alternate Renewal Term – This contract may be renewed for year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)
<b>Delivery Order Limitations:</b> In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.
Fixed Period Contract: This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed withindays.
Fixed Period Contract with Renewals: This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within days. Upon completion of the work covered by the preceding sentence, the vendor agrees that maintenance, monitoring, or warranty services will be provided for year(s) thereafter.
✓ One Time Purchase: The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.
Other: See attached.
Revised 01/09/2020

4. NOTICE TO PROCEED: Vendor shall begin performance of this Contract immediately upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Award Document will be considered notice to proceed.
5. QUANTITIES: The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.
Open End Contract: Quantities listed in this Solicitation are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.
Service: The scope of the service to be provided will be more clearly defined in the specifications included herewith.
Combined Service and Goods: The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.
One Time Purchase: This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.
6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.
7. REQUIRED DOCUMENTS: All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.
BID BOND (Construction Only): Pursuant to the requirements contained in W. Va. Code § 5-22-1(c), All Vendors submitting a bid on a construction project shall furnish a valid bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.
PERFORMANCE BOND: The apparent successful Vendor shall provide a performance bond in the amount of 100% of the contract. The performance bond must be received by the Purchasing Division prior to Contract award.

LABOR/MATERIAL PAYMENT BOND: The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.
In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable. Notwithstanding the foregoing, West Virginia Code § 5-22-1 (d) mandates that a vendor provide a performance and labor/material payment bond for construction projects. Accordingly, substitutions for the performance and labor/material payment bonds for construction projects is not permitted.
MAINTENANCE BOND: The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.
LICENSE(S) / CERTIFICATIONS / PERMITS: In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.
The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

Revised 01/09/2020

8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below and must include the State as an additional insured on each policy prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed in this section.

Vendor must maintain:	
Commercial General Liability Insurance in at least an amount of: \$1,000,000.000	per per
Automobile Liability Insurance in at least an amount of:	_per occurrence.
Professional/Malpractice/Errors and Omission Insurance in at least an amore per occurrence. Notwithstanding the forgoing, Vendor's a list the State as an additional insured for this type of policy.	
Commercial Crime and Third Party Fidelity Insurance in an amount of: per occurrence.	
Cyber Liability Insurance in an amount of:	per occurrence.
Builders Risk Insurance in an amount equal to 100% of the amount of the Con	ntract.
Pollution Insurance in an amount of: per occurrence.	
Aircraft Liability in an amount of: per occurrence.	

Notwithstanding anything contained in this section to the contrary, the Director of the Purchasing Division reserves the right to waive the requirement that the State be named as an additional insured on one or more of the Vendor's insurance policies if the Director finds that doing so is in the State's best interest.

9. WORKERS' COMPENSATION INSURANCE: The apparent successful Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

#### 10. [Reserved]

	shall in no way be considered exclusive and shall any other available remedy. Vendor shall pay low or as described in the specifications:	
N/A for	N/A	
Liquidated Damages Contained in the Specifications		

- 12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.
- 13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.
- 14. PAYMENT IN ARREARS: Payment in advance is prohibited under this Contract.

  Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears.
- 15. PAYMENT METHODS: Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

- 16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.
- 18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available.
- 19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.
- 20. TIME: Time is of the essence with regard to all matters of time and performance in this Contract.
- 21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code or West Virginia Code of State Rules is void and of no effect.
- 22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.
  - SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.
- 23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

- 24. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.
- 25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.
- 26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.
- 27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.
- 28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.
- 29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.
- 30. PRIVACY, SECURITY, AND CONFIDENTIALITY: The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <a href="http://www.state.wv.us/admin/purchase/privacy/default.html">http://www.state.wv.us/admin/purchase/privacy/default.html</a>.

31. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

32. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

33. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

34. VENDOR CERTIFICATIONS: By signing its bid or entering into this Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this Solicitation in its entirety; understands the requirements, terms and conditions, and other information contained herein.

Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

35. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

36. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

- 37. PURCHASING AFFIDAVIT: In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State, Vendors are required to sign, notarize, and submit the Purchasing Affidavit to the Purchasing Division affirming under oath that it is not in default on any monetary obligation owed to the state or a political subdivision of the state.
- 38. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE: This Contract may be utilized by other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"), provided that both the Other Government Entity and the Vendor agree. Any extension of this Contract to the aforementioned Other Government Entities must be on the same prices, terms, and conditions as those offered and agreed to in this Contract, provided that such extension is in compliance with the applicable laws, rules, and ordinances of the Other Government Entity. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.
- 39. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.
- following reports identified by a checked box below:

  Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

  Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.requisitions@wv.gov.

40. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the

41. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of Protective Services for purposes of verifying compliance with this provision. The State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check.

Revised 01/09/2020

Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

- 42. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:
  - a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
  - b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
  - c. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
  - d. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.
- 43. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a

"substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

- 44. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$1 million, the vendor must submit to the Agency a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original preaward interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.
- 45. PROHIBITION AGAINST USED OR REFURBISHED: Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

<b>DESIGNATED CONTACT:</b>	Vendor appoints the individual identified in this Section as the
Contract Administrator and the	initial point of contact for matters relating to this Contract.

MIKE MORENO / SALES
(Name, Title) MIKE MORENO/SACES
(Printed Name and Title) 10201 RODNEY 51. PINEVILLE, NC 28/34
(Address) 400-434-6040 / 704-849-4540
(Phone Number)/(Fax Number)/ MMORENO @ SCMSINC. COM
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

scms Inc.
(Company)
2nd 2mm - INTKEMORENO-GALES
(Authorized Signature) (Representative Name, Title)
MIKE MORENO - SALES
(Printed Name and Title of Authorized Representative)
7/4/2020
(Date)
600-438-60040/704-669-4540
(Phone Number) (Fax Number)

# ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Re	eceived:		
(Check the box next to e	each addendum receive	ed)	
☐ Addendum N ☐ Addendum N ☐ Addendum N ☐ Addendum N ☐ Addendum N	Io. 2 Io. 3 Io. 4	☐ Addendum No. 6 ☐ Addendum No. 7 ☐ Addendum No. 8 ☐ Addendum No. 9 ☐ Addendum No. 10	
I further understand that discussion held between	t any verbal representa n Vendor's representati	t of addenda may be cause for rejection of this ation made or assumed to be made during any cives and any state personnel is not binding. On the specifications by an official addendum is	oral
Scms =	INC.		
Company			
2m7.	Zn		
Authorized Signature		<del></del>	
7/4/20	20		
Date /			

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

## STATE OF WEST VIRGINIA Purchasing Division

### **PURCHASING AFFIDAVIT**

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

#### **DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

#### WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: SCMSINC .	
Authorized Signature: Date: 7/8/2020	
State of North Carolina  County of Paston, to-wit:	
Taken, subscribed, and sworn to before me this Strategy day of July 2020.	
My Commission expires August 21 2024.	
AFFIX SEAL HERE NOTARY PUBLIC Malerel Moore	

CHARLENE K. MOORE
NOTARY PUBLIC
Geston County, North Carolina
My Carmission Expires 14665 212024

Purchasing Affidavit (Revised 01/19/2018)



### Antenna Proposal

WSWP-TV
Grandview, WV
Channel 8
ATC-BCE04O-V0-8
Top Mount
Elliptically Polarized Omni



07/06/2020

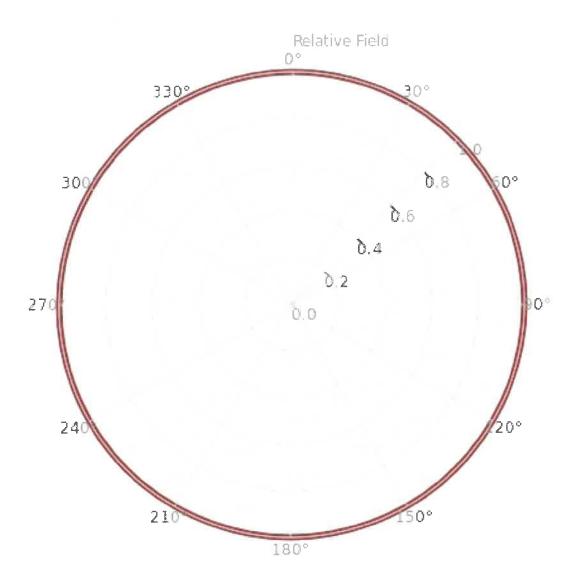
## Summary

Antenna Specifications	STATE OF STREET
Antenna Type	Coaxial Slot
Antenna Model	ATC-BCE04O-V0-8
Electrical Specifications	
Channel(s)	8
Frequency Range (MHz)	180 - 186
Polarization	Elliptical
Horizontal Azimuth Pattern	Omni
Directivity	1.00
dB	0.00
Vertical Azimuth Pattern	V-Omni
Directivity	1.00
dB	0.00
Vertical Component	25 %
Azimuth Peak of Beam	0 °
Elevation Pattern	4L
Directivity	4.58
dB	6.61
Electrical Beam Tilt	0.75 °
Antenna Peak Power Gain	
Horizontal Gain Power	3.66
Horizontal Gain Ratio	5.64 dBd
Vertical Gain Power	0.92
Vertical Gain Ratio	-0.38 dBd
Line Type	3-1/8" 50 Ohm Rigid Line
Line Length	450 ft
Total Line Loss	0.56 dB
Effective Radiated Power (ERP)	30 kW
ERP Vertical Power	7.50 kW
Transmitter Power Output (TPO)	
TPO Power	9.32 kW
TPO Ratio	9.69 dBk
Input Type	EIA 3-1/8"
Mechanical Specifications	
Mount Type	Top Mount
Length of Antenna	22 ft
Center of Radiation	11 ft
Radome Diameter	18.25"
Color	Aviation Orange
Calculated Weight	3650 lbs
Windload (Shear)	See Attached Sheet

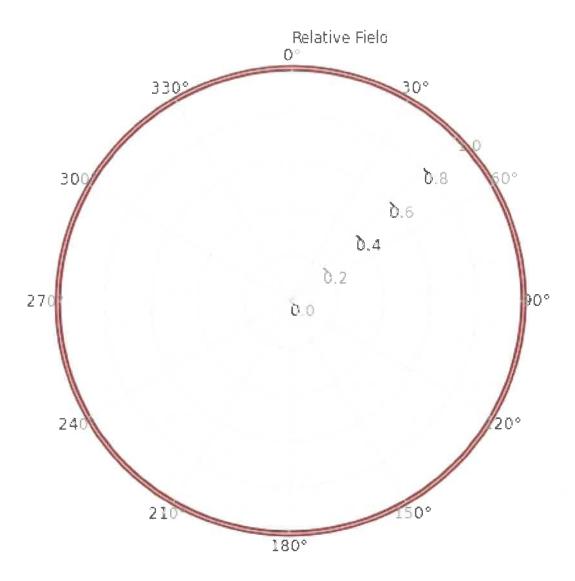
model no.: ATC-BCE04O-V0-8

### **Horizontal Azimuth Pattern**

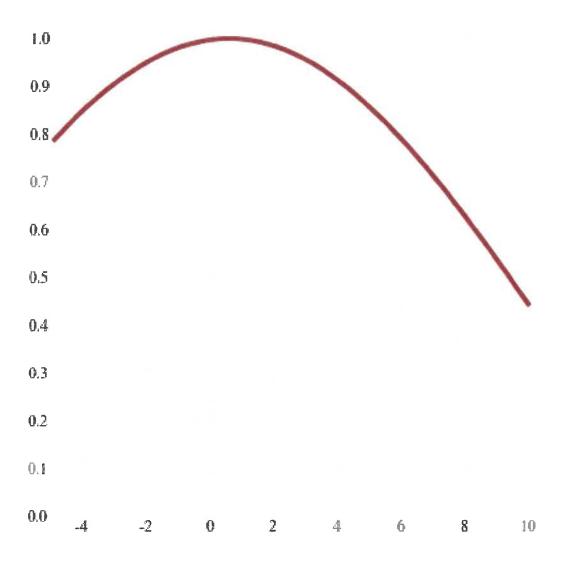
model no.: ATC-BCE04O-V0-8



### Vertical Azimuth Pattern



## Elevation pattern -5 to 10





model no.: ATC-BCE04O-V0-8

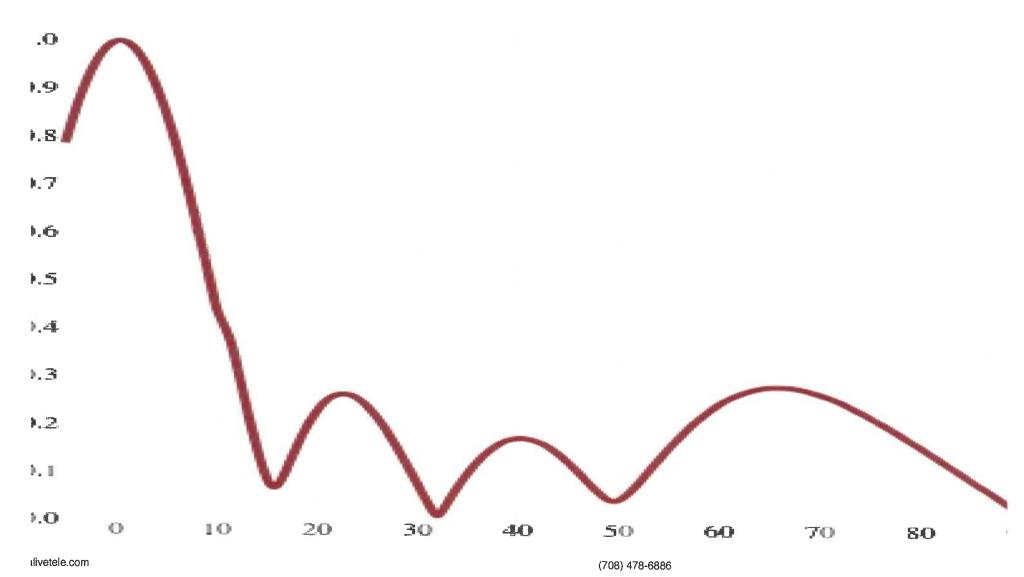
call sign: WSWP



city of license: Grandview

state: WV

### vation pattern -5 to 90



### Azimuth Horizontal Pattern Tabulation

Angle	Field	dB	Angle	Field	dB	Angle	Field	dΒ	Angle	Field	dB
0°	1.000	0.00	90°	1.000	0.00	180°	1.000	0.00	270°	1.000	0.00
2°	1.000	0.00	92°	1.000	0.00	182°	1.000	0.00	272°	1.000	0.00
4°	1.000	0.00	94°	1.000	0.00	184°	1.000	0.00	274°	1.000	0.00
6°	1.000	0.00	96°	1.000	0.00	186°	1.000	0.00	276°	1.000	0.00
8°	1.000	0.00	98°	1.000	0.00	188°	1.000	0.00	278°	1.000	0.00
10°	1.000	0.00	100°	1.000	0.00	190°	1.000	0.00	280°	1.000	0.00
12°	1.000	0.00	102°	1.000	0.00	192°	1.000	0.00	282°	1.000	0.00
14°	1.000	0.00	104°	1.000	0.00	194°	1.000	0.00	284°	1.000	0.00
16°	1.000	0.00	106°	1.000	0.00	196°	1.000	0.00	286°	1.000	0.00
18°	1.000	0.00	108°	1.000	0.00	198°	1.000	0.00	288°	1.000	0.00
20°	1.000	0.00	110°	1.000	0.00	200°	1.000	0.00	290°	1.000	0.00
22°	1.000	0.00	112°	1.000	0.00	202°	1.000	0.00	292°	1.000	0.00
24°	1.000	0.00	114°	1.000	0.00	204°	1.000	0.00	294°	1.000	0.00
26°	1.000	0.00	116°	1.000	0.00	206°	1.000	0.00	296°	1.000	0.00
28°	1.000	0.00	118°	1.000	0.00	208°	1.000	0.00	298°	1.000	0.00
30°	1.000	0.00	120°	1.000	0.00	210°	1.000	0.00	300°	1.000	0.00
32°	1.000	0.00	122°	1.000	0.00	212°	1.000	0.00	302°	1.000	0.00
34°	1.000	0.00	124°	1.000	0.00	214°	1.000	0.00	304°	1.000	0.00
36°	1.000	0.00	126°	1.000	0.00	216°	1.000	0.00	306°	1.000	0.00
38°	1.000	0.00	128°	1.000	0.00	218°	1.000	0.00	308°	1.000	0.00
40°	1.000	0.00	130°	1.000	0.00	220°	1.000	0.00	310°	1.000	0.00
42°	1.000	0.00	132°	1.000	0.00	222°	1.000	0.00	312°	1.000	0.00
44°	1.000	0.00	134°	1.000	0.00	224°	1.000	0.00	314°	1.000	0.00
46°	1.000	0.00	136°	1.000	0.00	226°	1.000	0.00	316°	1.000	0.00
48°	1.000	0.00	138°	1.000	0.00	228°	1.000	0.00	318°	1.000	0.00
50°	1.000	0.00	140°	1.000	0.00	230°	1.000	0.00	320°	1.000	0.00
52°	1.000	0.00	142°	1.000	0.00	232°	1.000	0.00	322°	1.000	0.00
54°	1.000	0.00	144°	1.000	0.00	234°	1.000	0.00	324°	1.000	0.00
56°	1.000	0.00	146°	1.000	0.00	236°	1.000	0.00	326°	1.000	0.00
58°	1.000	0.00	148°	1.000	0.00	238°	1.000	0.00	328°	1.000	0.00
60°	1.000	0.00	150°	1.000	0.00	240°	1.000	0.00	330°	1.000	0.00
62°	1.000	0.00	152°	1.000	0.00	242°	1.000	0.00	332°	1.000	0.00
64°	1.000	0.00	154°	1.000	0.00	244°	1.000	0.00	334°	1.000	0.00
66°	1.000	0.00	156°	1.000	0.00	246°	1.000	0.00	336°	1.000	0.00
68°	1.000	0.00	158°	1.000	0.00	248°	1.000	0.00	338°	1.000	0.00
70°	1.000	0.00	160°	1.000	0.00	250°	1.000	0.00	340°	1.000	0.00
72°	1.000	0.00	162°	1.000	0.00	252°	1.000	0.00	342°	1.000	0.00
74°	1.000	0.00	164°	1.000	0.00	254°	1.000	0.00	344°	1.000	0.00
76°	1.000	0.00	166°	1.000	0.00	256°	1.000	0.00	346°	1.000	0.00
78°	1.000	0.00	168°	1.000	0.00	258°	1.000	0.00	348°	1.000	0.00
80°	1.000	0.00	170°	1.000	0.00	260°	1.000	0.00	350°	1.000	0.00
82°	1.000	0.00	172°	1.000	0.00	262°	1.000	0.00	352°	1.000	0.00
84°	1.000	0.00	174°	1.000	0.00	264°	1.000	0.00	354°	1.000	0.00
86°	1.000	0.00	176°	1.000	0.00	266°	1.000	0.00	356°	1.000	0.00
88°	1.000	0.00	178°	1.000	0.00	268°	1.000	0.00	358°	1.000	0.00

model no.: ATC-BCE040-V0-8 call sign: WSWP city of license: Grandview state: WV

## Azimuth Pattern Tabulation, FCC

Angle	Field	dB	Angle	Field	dВ	Angle	Field	dB	Angle	Field	₫B
0°	1.000	0.00	90°	1.000	0.00	180°	1.000	0.00	270°	1.000	0.00
10°	1.000	0.00	100°	1.000	0.00	190°	1.000	0.00	280°	1.000	0.00
20°	1.000	0.00	110°	1.000	0.00	200°	1.000	0.00	290°	1.000	0.00
30°	1.000	0.00	120°	1.000	0.00	210°	1.000	0.00	300°	1.000	0.00
40°	1.000	0.00	130°	1.000	0.00	220°	1.000	0.00	310°	1.000	0.00
50°	1.000	0.00	140°	1.000	0.00	230°	1.000	0.00	320°	1.000	0.00
60°	1.000	0.00	150°	1.000	0.00	240°	1.000	0.00	330°	1.000	0.00
70°	1.000	0.00	160°	1.000	0.00	250°	1.000	0.00	340°	1.000	0.00
80°	1.000	0.00	170°	1.000	0.00	260°	1.000	0.00	350°	1.000	0.00

### **Elevation Pattern Tabulation**

-5 to 10 in 0.25 increments, 10 to 90 in 0.50 increments

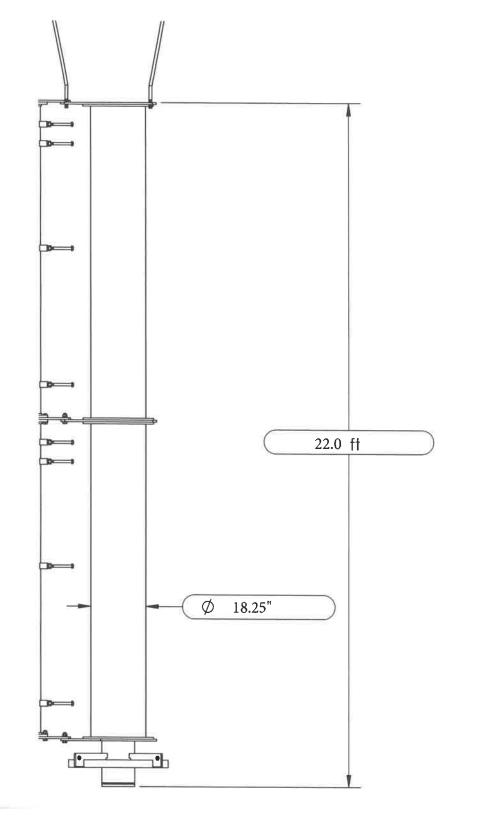
model no.: ATC-BCE04O-V0-8

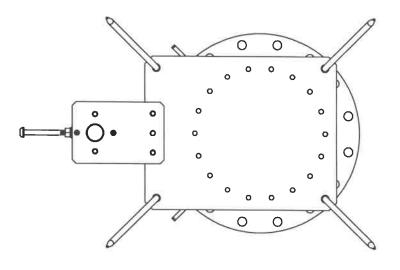
Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-5.00	0.786	-2.09	8.75	0.557	-5.08	35.00	0.100	-20.00	62.50	0.269	-11.40
-4.75	0.803	-1.91	9.00	0.534	-5.45	35.50	0.113	-18.94	63.00	0.272	-11.31
-4.50	0.821	-1.71	9.25	0.511	-5.83	36.00	0.125	-18.06	63.50	0.275	-11.21
-4.25	0.838	-1.54	9.50	0.487	-6.25	36.50	0.136	-17.33	64.00	0.277	-11.15
-4.00	0.853	-1.38	9.75	0.464	-6.67	37.00	0.145	-16.77	64.50	0.279	-11.09
-3.75	0.869	-1.22	10.00	0.441	-7.11	37.50	0.153	-16.31	65.00	0.280	-11.06
-3.50	0.883	-1.08	10.50	0.418	-7.58	38.00	0.160	-15.92	65.50	0.280	-11.06
-3.25	0.897	-0.94	11.00	0.395	-8.07	38.50	0.166	-15.60	66.00	0.280	-11.06
-3.00	0.909	-0.83	11.50	0.371	-8.61	39.00	0.170	-15.39	66.50	0.280	-11.06
-2.75	0.922	-0.71	12.00	0.325	-9.76	39.50	0.172	-15.29	67.00	0.279	-11.09
-2.50	0.933	-0.60	12.50	0.280	-11.06	40.00	0.174	-15.19	67.50	0.278	-11.12
-2.25	0.943	-0.51	13.00	0.235	-12.58	40.50	0.174	-15.19	68.00	0.276	-11.18
-2.00	0.953	-0.42	13.50	0.193	-14.29	41.00	0.172	-15.29	68.50	0.274	-11.24
-1.75	0.962	-0.34	14.00	0.153	-16.31	41.50	0.170	-15.39	69.00	0.271	-11.34
-1.50	0.970	-0.26	14.50	0.116	-18.71	42.00	0.166	-15.60	69.50	0.268	-11.44
-1.25	0.977	-0.20	15.00	0.086	-21.31	42.50	0.162	-15.81	70.00	0.265	-11.54
-1.00	0.983	-0.15	15.50	0.067	-23.48	43.00	0.156	-16.14	70.50	0.262	-11.63
-0.75	0.988	-0.10	16.00	0.068	-23.35	43.50	0.149	-16.54	71.00	0.258	-11.77
-0.50	0.992	-0.07	16.50	0.084	-21.51	44.00	0.141	-17.02	71.50	0.254	-11.90
-0.25	0.996	-0.03	17.00	0.107	-19.41	44.50	0.133	-17.52	72.00	0.250	-12.04
0.00	0.998	-0.02	17.50	0.131	-17.65	45.00	0.123	-18.20	72.50	0.245	-12.22
0.25	1.000	0.00	18.00	0.155	-16.19	45.50	0.113	-18.94	73.00	0.240	-12.40
0.50	1.000	0.00	18.50	0.177	-15.04	46.00	0.103	-19.74	73.50	0.235	-12.58
0.75	1.000	0.00	19.00	0.196	-14.15	46.50	0.092	-20.72 -21.83	74.00	0.230	-12.77
1.00	0.998	-0.02	19.50	0.214 0.229	-13.39 -12.80	47.00 47.50	0.081 0.070	-21.63 -23.10	74.50 75.00	0.225 0.219	-12.96 -13.19
1.25	0.996	-0.03 -0.07	20.00 20.50	0.229	-12.86 -12.36	48.00	0.060	-24.44	75.50 75.50	0.219	-13.19
1.50	0.992	-0.07	21.00	0.251	-12.01	48.50	0.051	-24.44	76.00	0.207	-13.43
1.75 2.00	0.988 0.983	-0.15	21.50	0.251	-12.01 -11.77	49.00	0.031	-25.65	76.50	0.207	-13.06
2.00	0.983	-0.13	22.00	0.262	-11.63	49.50	0.044	-27.13	77.00	0.195	-14.20
2.50	0.970	-0.26	22.50	0.264	-11.57	50.00	0.044	-27.13	77.50	0.189	-14.47
2.75	0.962	-0.23	23.00	0.263	-11.60	50.50	0.050	-26.02	78.00	0.183	-14.75
3.00	0.954	-0.41	23.50	0.261	-11.67	51.00	0.059	-24.58	78.50	0.176	-15.09
3.25	0.944	-0.50	24.00	0.255	-11.87	51.50	0.069	-23.22	79.00	0.170	-15.39
3.50	0.933	-0.60	24.50	0.248	-12.11	52.00	0.081	-21.83	79.50	0.163	-15.76
3.75	0.922	-0.71	25.00	0.239	-12.43	52.50	0.093	-20.63	80.00	0.157	-16.08
4.00	0.909	-0.83	25.50	0.228	-12.84	53.00	0.106	-19.49	80.50	0.150	-16.48
4.25	0.897	-0.94	26.00	0.216	-13.31	53.50	0.118	-18.56	81.00	0.143	-16.89
4.50	0.883	-1.08	26.50	0.202	-13.89	54.00	0.130	-17.72	81.50	0.137	-17.27
4.75	0.868	-1.23	27.00	0.186	-14.61	54.50	0.142	-16.95	82.00	0.130	-17.72
5.00	0.853	-1.38	27.50	0.170	-15.39	55.00	0.154	-16.25	82.50	0.123	-18.20
5.25	0.837	-1.55	28.00	0.152	-16.36	55.50	0.165	-15.65	83.00	0.116	-18.71
5.50	0.821	-1.71	28.50	0.134	-17.46	56.00	0.176	-15.09	83.50	0.110	-19.17
5.75	0.803	-1.91	29.00	0.115	-18.79	56.50	0.186	-14.61	84.00	0.103	-19.74
6.00	0.786	-2.09	29.50	0.096	-20.35	57.00	0.196	-14.15	84.50	0.096	-20.35
6.25	0.767	-2.30	30.00	0.077	-22.27	57.50	0.206	-13.72	85.00	0.089	-21.01
6.50	0.748	-2.52	30.50	0.057	-24.88	58.00	0.215	-13.35	85.50	0.082	-21.72
6.75	0.728	-2.76	31.00	0.038	-28.40	58.50	0.223	-13.03	86.00	0.075	-22.50
7.00	0.708	-3.00	31.50	0.019	-34.42	59.00	0.231	-12.73	86.50	0.069	-23.22
7.25	0.688	-3.25	32.00	0.005	-46.02	59.50	0.238	-12.47	87.00	0.062	-24.15
7.50	0.667	-3.52	32.50	0.020	-33.98	60.00	0.245	-12.22	87.50	0.055	-25.19
7.75	0.645	-3.81	33.00	0.038	-28.40	60.50	0.251	-12.01	88.00	0.048	-26,38
8.00	0.623	-4.11	33.50	0.055	-25.19	61.00	0.256	-11.84	88.50	0.041	-27.74
8.25	0.601	-4.42	34.00	0.071	-22.97	61.50	0.261	-11.67	89.00	0.034	-29.37
8.50	0.579	-4.75	34.50	0.086	-21.31	62.00	0.265	-11.54	89.50	0.027	-31.37
8.75	0.557	-5.08	35.00	0.100	-20.00	62.50	0.269	-11.40	90.00	0.021	-33.56

state: WV

### **Azimuth Vertical Pattern Tabulation**

Angle	Field	dB									
0°	1.000	0.00	90°	1.000	0.00	180°	1.000	0.00	270°	1.000	0.00
2°	1.000	0.00	92°	1.000	0.00	182°	1.000	0.00	272°	1.000	0.00
4°	1.000	0.00	94°	1.000	0.00	184°	1.000	0.00	274°	1.000	0.00
6°	1.000	0.00	96°	1.000	0.00	186°	1.000	0.00	276°	1.000	0.00
8°	1.000	0.00	98°	1.000	0.00	188°	1.000	0.00	278°	1.000	0.00
10°	1.000	0.00	100°	1.000	0.00	190°	1.000	0.00	280°	1.000	0.00
12°	1.000	0.00	102°	1.000	0.00	192°	1.000	0.00	282°	1.000	0.00
14°	1.000	0.00	104°	1.000	0.00	194°	1.000	0.00	284°	1.000	0.00
16°	1.000	0.00	106°	1.000	0.00	196°	1.000	0.00	286°	1.000	0.00
18°	1.000	0.00	108°	1.000	0.00	198°	1.000	0.00	288°	1.000	0.00
20°	1.000	0.00	110°	1.000	0.00	200°	1.000	0.00	290°	1.000	0.00
22°	1.000	0.00	112°	1.000	0.00	202°	1.000	0.00	292°	1.000	0.00
24°	1.000	0.00	114°	1.000	0.00	204°	1.000	0.00	294°	1.000	0.00
26°	1.000	0.00	116°	1.000	0.00	206°	1.000	0.00	296°	1.000	0.00
28°	1.000	0.00	118°	1.000	0.00	208°	1.000	0.00	298°	1.000	0.00
30°	1.000	0.00	120°	1.000	0.00	210°	1.000	0.00	300°	1.000	0.00
32°	1.000	0.00	122°	1.000	0.00	212°	1.000	0.00	302°	1.000	0.00
34°	1.000	0.00	124°	1.000	0.00	214°	1.000	0.00	304°	1.000	0.00
36°	1.000	0.00	126°	1.000	0.00	216°	1.000	0.00	306°	1.000	0.00
38°	1.000	0.00	128°	1.000	0.00	218°	1.000	0.00	308°	1.000	0.00
40°	1.000	0.00	130°	1.000	0.00	220°	1.000	0.00	310°	1.000	0.00
42°	1.000	0.00	132°	1.000	0.00	222°	1.000	0.00	312°	1.000	0.00
44°	1.000	0.00	134°	1.000	0.00	224°	1.000	0.00	314°	1.000	0.00
46°	1.000	0.00	136°	1.000	0.00	226°	1.000	0.00	316°	1.000	0.00
48°	1.000	0.00	138°	1.000	0.00	228°	1.000	0.00	318°	1.000	0.00
50°	1.000	0.00	140°	1.000	0.00	230°	1.000	0.00	320°	1.000	0.00
52°	1.000	0.00	142°	1.000	0.00	232°	1.000	0.00	322°	1.000	0.00
54°	1.000	0.00	144°	1.000	0.00	234°	1.000	0.00	324°	1.000	0.00
56°	1.000	0.00	146°	1.000	0.00	236°	1.000	0.00	326°	1.000	0.00
58°	1.000	0.00	148°	1.000	0.00	238°	1.000	0.00	328°	1.000	0.00
60°	1.000	0.00	150°	1.000	0.00	240°	1.000	0.00	330°	1.000	0.00
62°	1.000	0.00	152°	1.000	0.00	242°	1.000	0.00	332°	1.000	0.00
64°	1.000	0.00	154°	1.000	0.00	244°	1.000	0.00	334°	1.000	0.00
66°	1.000	0.00	156°	1.000	0.00	246°	1.000	0.00	336°	1.000	0.00
68°	1.000	0.00	158°	1.000	0.00	248°	1.000	0.00	338°	1.000	0.00
70°	1.000	0.00	160°	1.000	0.00	250°	1.000	0.00	340°	1.000	0.00
72°	1.000	0.00	162°	1.000	0.00	252°	1.000	0.00	342°	1.000	0.00
74°	1.000	0.00	164°	1.000	0.00	254°	1.000	0.00	344°	1.000	0.00
76°	1.000	0.00	166°	1.000	0.00	256°	1.000	0.00	346°	1.000	0.00
78°	1.000	0.00	168°	1.000	0.00	258°	1.000	0.00	348°	1.000	0.00
80°	1.000	0.00	170°	1.000	0.00	260°	1.000	0.00	350°	1.000	0.00
82°	1.000	0.00	172°	1.000	0.00	262°	1.000	0.00	352°	1.000	0.00
84°	1.000	0.00	174°	1.000	0.00	264°	1.000	0.00	354°	1.000	0.00
86°	1.000	0.00	176°	1.000	0.00	266°	1.000	0.00	356°	1.000	0.00
88°	1.000	0.00	178°	1.000	0.00	268°	1.000	0.00	358°	1.000	0.00





4 Bay Channel 8 3650 lbs

VIEW A-A

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES	DRAWN BY	SM	01/06/17
.X ± 0.1	CHECKED		



WSWP		NO ICE		90 MPH		
Antenna Model	=	ATC-BCE040-	<b>/</b> 0-8			
Number of Antenna Sections	=	1				
Size	=	6.7056	m	0.46 m		
Area	=	3.108	m2			
Aspect ratio		14.47				
C = [(I)(kzt)(kz)]^0.5 * (V)(D)		30.60				
Ca (With respect to aspect ratio), Consider Flat Surface. In order for a structural component to be considered as a round structure component the component must have a round profile on the windward and leeward sides of the component (TIA 222g - 2.6.9.1.1 Notes). Linear interpolation has been made for Ca value.		0.60				
Total Effective Projected Area of Appurtenances						_
ΣΕΡΑ (CaAa)	=	1.865	Sq.m	20	0.1 9	Sq ft
Structure Height H	=	120	m			
Structure Base Elevation @ AGL	=	901	m			
Antenna Elevation z	=	1017.6472	m			
Velocity Pressure qz	=	2270.60	Pa			
where qz=0.613 (kz) (kzt) (kd) (V2)(I)	=					
Exposure Coefficient Kz	=	2.692		2.4 (TIA 222G		
Topographic Factor Kzt	=	1	TIA 22	2G, Cl 2.6.6.4	ļ	
Wind Direction Probability Factor Kd	=	0.85		2.2 (TIA 222G		
Gust Response Factor Gh	=	1.35	TIA 22	2G, Cl 2.6.7.1	L	
Velocity V, Kph	=	144.8406	kph			
Velocity V, m/s		40.23	m/s			
Importance Factor I	=	1				
Wind load Factor	=	1				
where antenna wind force,						
F=qz(Gh)(ΣΕΡΑ)(wind load factor)	= 1					
Antenna Wind Force	=	5717	N			

Antenna Weight

1284.696834

3650 lbs

## **Design and Manufacturing Process**

Design Single Layer Computer Simulation to determine feasibility and starting locations for physical single bay model. Full Scale Single layer is preset to resonance coupling based on the required elevation pattern.

Chamber work begins, first optimizing the horizontal pattern followed by vertical component. Model is then rechecked for coupling resonance. At this time axial ratio measurements are made to ensure a quality signal. After any final adjustments coupling is checked again. Model is firmed up by replacing any temporary radiator directors with machined samples.

Model is measured and documented for array design. Array is design using proprietary software. Unique and non-uniform slot spacing generates greater control over the beam-tilt null-fill and bandwidth.

Mechanical Review continues the process, once structural approval is determined drafting of any specialty parts commences. Once all prints are complete a design review signs off on electrical and mechanical components. Non-stock items are ordered from pre-approved vendors.

Alive utilizes parasitic vertical elements at each slot to deliver the same elevation gain and pattern per polarization. This practice provides a more consistent signal helping the axial ratio and maximizing the gain over aperture space minimizing the cost of transmitter operation. Full enclosed fiberglass radomes provide a pressurized solution which will protect the antenna from the harsh environment.

Alive Telecom follows ISO9001 standards. Each employee is trained on document procedures including control of records, non-conforming products, corrective and preventative actions. Alive Telecom performs an annual internal audit of quality management.

Once materials arrive and are inspected, manufacturing begins. All welds are performed by certified welders and 3<sup>rd</sup> party tested. Assembly and "pretuning" begins once all piece parts are fabricated. Array measurements are made in a near-field probe method. Each element is measured for amplitude and phase relative to the first bay. The data along with the spacing file is used to calculate the far field elevation pattern. Minor adjustments are made to the slot to achieve the actual pattern over laying the design. The top short location is adjusted also to assist in the antenna bandwidth. All adjustments are locked down and the input is matched utilizing an impedance transformer or in-line stub.

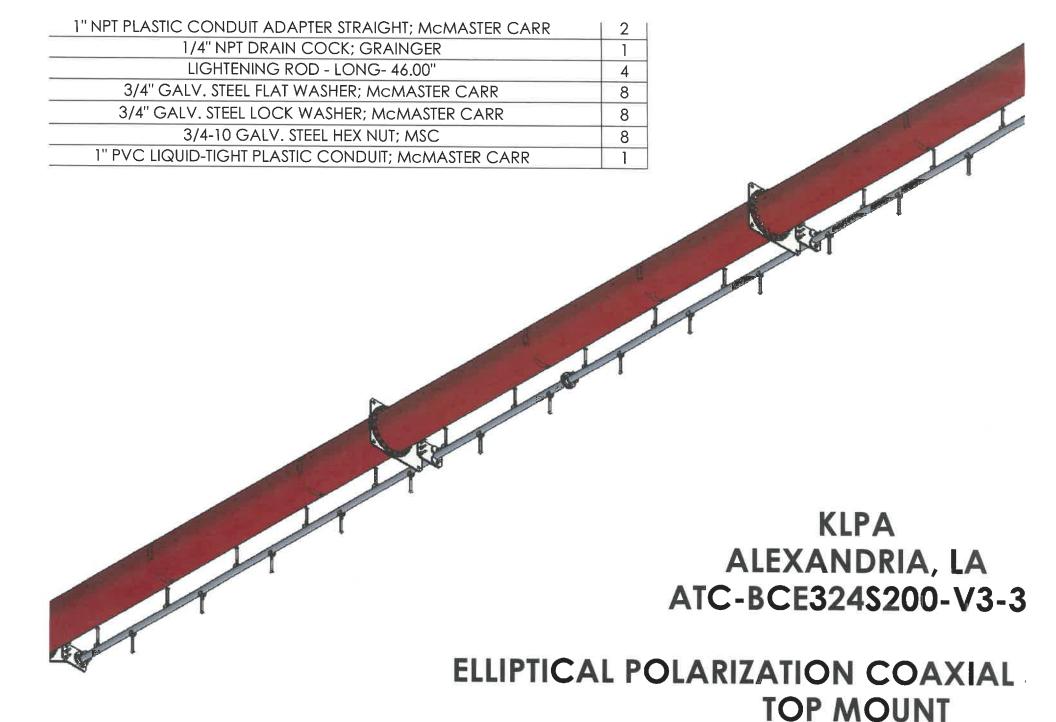




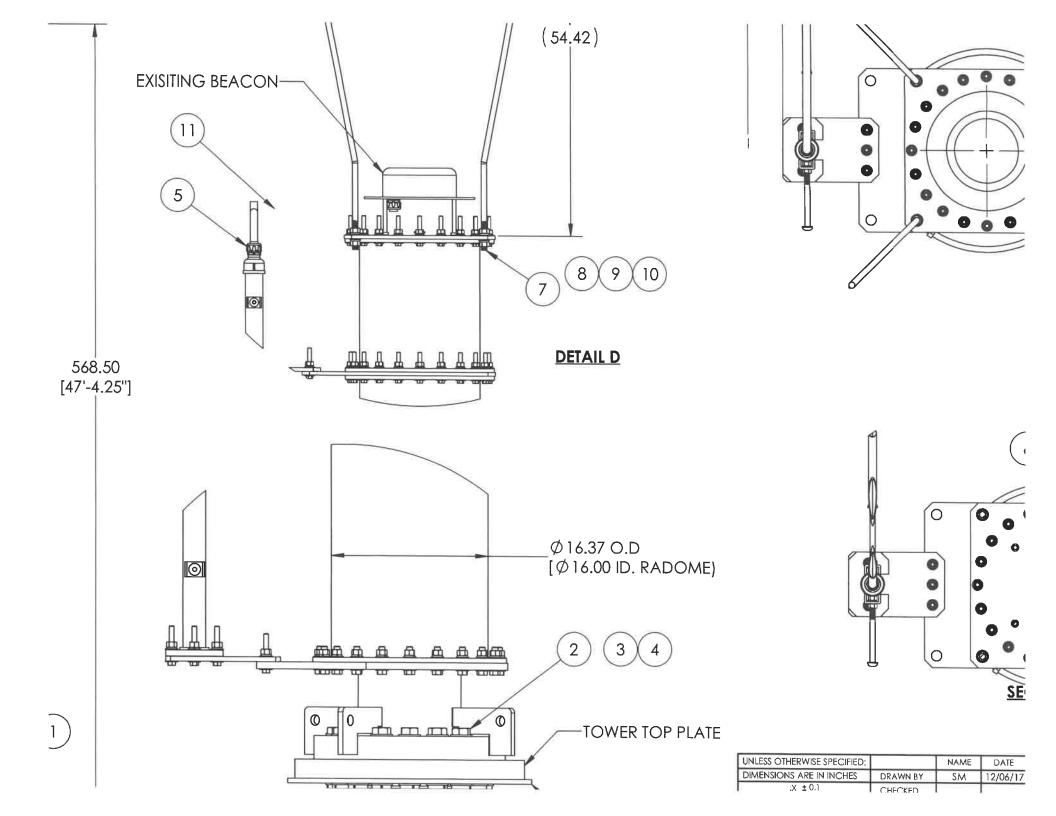
Alive Telecom 9850 W 190<sup>th</sup> Unit F Mokena IL 60448 708 478 6886 <u>www.alivetele.com</u> @alivetelecom

info@alivetele.com





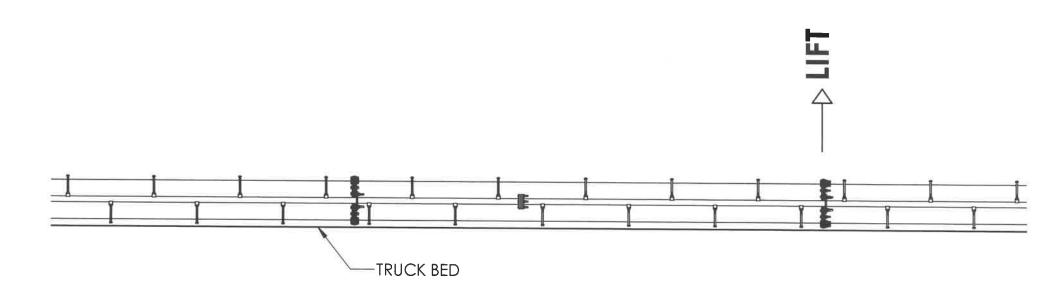
UNLESS OTHERWISE SPECIFIED: NAME DATE
DIMENSIONS ARE IN INCHES DRAWN BY SM 12/06/17



## **LIFTING INSTRUCTIONS**

LIFT ANTENNA FROM BOTTOM AND TOP-CENTER RADOME PLATES USING SHACKLES AS SHOWN. **DO**NOT LIFT ANTENNA BY FIBERGLASS RADOMES,

DAMAGE WILL OCCUR.

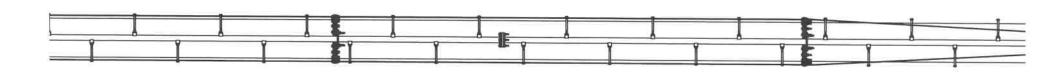


UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES	DRAWN BY	SM	02/27/18
.X ± 0.1	CHECKED		

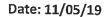
## **LIFTING INSTRUCTIONS**

LIFT ANTENNA FROM BOTTOM AND TOP-CENTER RADOME PLATES USING SHACKLES AS SHOWN. **DO**NOT LIFT ANTENNA BY FIBERGLASS RADOMES,

DAMAGE WILL OCCUR.

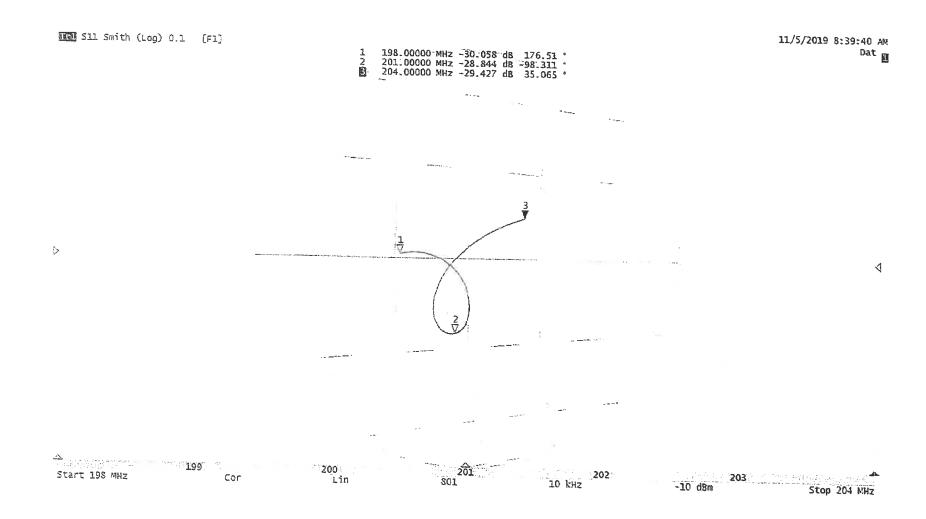


UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES	DRAWN BY	SM	02/27/18
.x ± 0.1	CHECKED		





## FINAL DATA - SMITH CHART



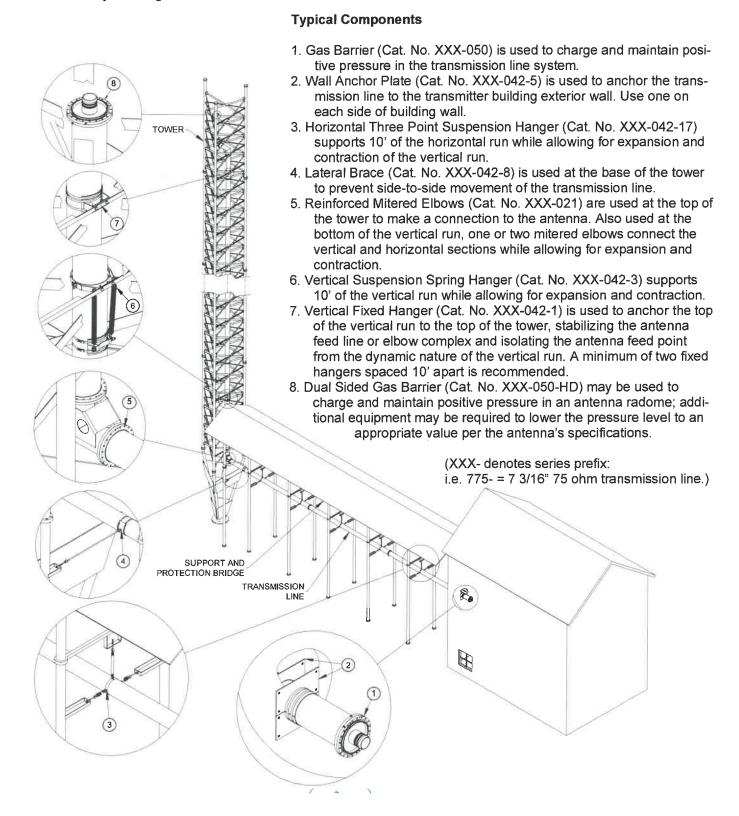
P/N: ATC-BCC43M-V3-11 CALL LETTER: WVTT CH. 11

S/N: 11036



### Transmission Line System Planning Guide (Typical Installation)

Advances in materials, manufacturing procedures and design techniques have greatly improved rigid coaxial transmission line performance and longevity, but transmission line installations have followed the same basic principles for many years. Use the Typical Installation pictured here, along with the sample Bill of Materials on the next page, as planning guides to determine your requirements. Each installation will differ as to tower location and orientation, distance from the tower base to the transmitter building, antenna type and orientation, etc. If your installation involves special requirements, do not hesitate to contact us. If our complete line of components and accessories does not answer your needs, our computer aided designing, testing, and manufacturing facilities can quickly produce "one-of-a-kind" custom components to meet any challenge.





#### **Bill of Materials**

This guide is designed to assist you in planning a rigid coaxial transmission line system. The left-hand side of the page lists all of the components required to assemble a typical system. On the right side of the page are helpful hints and formulas for calculating the quantities of each component required to construct the system. If you have questions or require assistance in planning a specific installation, please contact MYAT at 201-684-0100 or <a href="mailto:sales@myat.com">sales@myat.com</a>

ITEM	QTY.	MYAT CAT. NO.	DESCRIPTION	
			Vertical Run	
01		XXX-007	Transmission line sections, expansion compensation inner conductors:ft. per section, including sections for horizontal run, plus one (1) section for field cuts.	To calculate the number of line sections required for the site configuration:  Horz. Run (ft.) + Vert. Run (ft.) = Total # of sections*  Line section length (ft.)  * Always round up. Add one section for field cuts
02	_	XXX-042-1	Fixed Hanger.	Used to anchor top of vertical run to tower. 2 pcs. req'd for vertical runs up to 1000 ft. 3 pcs. req'd for vertical runs up to 1500 ft. 4 pcs. req'd for vertical runs up to 2000 ft.
03		XXX-042-3	Vertical spring suspension hanger, spacing every 10'.	To calculate the number of vertical spring suspension hangers required:  Total Vert. Run (ft.) = # Vertical spring hangers  10
04		XXX-021	Reinforced mitered elbows.	Typically four elbows are recommended: 1 at the vertical/horizontal junction, and 3 for the elbow complex at the top of the tower to the antenna input.
			Horizontal Run	
05	_	XXX-042-8	Lateral brace.	2 pcs. recommended at base of vertical run to prevent lateral movement, may be located at tower end of hori- zontal run.
06	_	XXX-042-17	Horizontal spring suspension hanger.	To calculate the number of horizontal spring suspension hangers required: <u>Total Horiz. Run (ft.)</u> = # of horizontal spring hangers  10
07	_	XXX-042-5	Wall anchor plate	2 pcs. required, one for each side of wall.
			Pressurization Equipment	
08		XXX-050	Gas Barrier.	pc. required to pressurize at transmitter building.     pc. optional at top of tower.
09		XXX-050-HD	Dual sided gas barrier.	1 pc. optional at top of tower to enable pressurization of antenna radome.
			Spares & Accessories	
10		XXX-010	Anchor insulator connector.	At least 2 pcs. for field cut connections.
11		XXX-010-E	Expansion type anchor insulator connector.	At least 2 pcs. for use as spares.
12		XXX-011	"O" ring for flange junctions.	At least 2 pcs. as spares to cover parts lost or damaged during installation.
13		XXX-012	Hardware kit for flange junctions.	At least 2 kits as spares to cover parts lost or damaged during installation.
14	_	XXX-013	Field flange adapter, soft solder type, to flange field cut line.	2 pcs. recommended for flanging field cuts.
15		XXX-015	Cover Plate / End cap.	1 pc. required to seal line during work stoppages.
16		XXX-042-24	Outer conductor cut-off guide.	1 pc. required to aid in making square field cuts.
17		XXX-042-25	Inner conductor cut-off guide.	1 pc. required to aid in making square field cuts.

#### "XXX" is the MYAT line series number, See list below

901-Series, 9 3/16" 50 Ohm 801-Series, 8 3/16" 75 Ohm 775-Series, 7 3/16" 75 Ohm 701-Series, 6 1/8" 75 Ohm 601-Series, 6 1/8" 50 Ohm

,



## 3 1/8" 50 Ohm Rigid Coaxial Transmission Line, TV Ratings and Efficiency in Percent

CH#	Freq. MHz	ATTEN. in dB/100 ft	Average Power (Kilowatts)	250 ft	500 ft	750 ft	1000 ft	1250 ft	1500 ft	1750 ft	2000 tt
2	54	0.068	71.210	96.14	92.44	88.87	85.45	82.15	78.98	75.94	73.01
3	60	0.072	67.556	95.94	92.04	88.31	84.72	81.28	77.98	74.82	71.78
4	66	0.076	64.412	95.75	91.67	87.77	84.04	80.46	77.04	73.76	70.63
5	76	0.081	60.025	95.44	91.09	86.94	82.98	79.20	75.59	72.14	68.85
6	82	0.084	57.787	95.27	90.76	86.47	82.38	78.48	74.77	71.24	67.87
7	174	0.123	39.670	93.19	86.83	80.92	75.40	70.26	65.48	61.01	56.86
8	180	0.125	39.003	93.07	86.63	80.62	75.04	69.84	65.00	60.50	56.31
9	186	0.127	38.369	92.96	86.42	80.34	74.68	69.43	64.54	60.00	55.78
10	192	0.129	37.765	92.85	86.22	80.06	74.34	69.02	64.09	59.51	55.26
11	198	0.131	37.188	92.75	86.02	79.78	74.00	68.63	63.65	59.03	54.75
12	204	0.133	36.637	92.64	85.83	79.51	73.66	68.24	63.22	58.57	54.26
13	210	0.135	36.110	92.54	85.63	79.25	73.33	67.86	62.80	58.11	53.78
14	470	0.202	24.137	89.05	79.29	70.61	62.88	55.99	49.86	44.40	39.53
15	476	0.203	23.985	88.98	79.18	70.45	62.69	55.78	49.64	44.17	39.30
16	482	0.204	23,835	88.92	79.06	70.30	62.51	55.58	49.42	43.94	39.07
17	488	0.205	23.688	88.85	78.95	70.14	62.32	55.38	49.20	43.72	38.84
18	494	0.207	23.544	88.79	78.83	69.99	62.14	55.18	48.99	43.50	38.62
19	500	0.208	23.402	88.72	78.72	69.84	61.97	54.98	48.78	43.28	38.40
20	506	0.209	23.263	88.66	78.61	69.69	61.79	54.78	48.57	43.06	38.18
21	512	0.210	23.126	88.60	78.49	69.54	61.61	54.59	48.36	42.85	37.96
22	518	0.212	22.992	88.53	78.38	69.40	61.44	54.39	48.16	42.64	37.75
23	524	0.213	22.860	88.47	78.27	69.25	61.27	54.20	47.95	42.43	37.54
24	530	0.214	22.730	88.41	78.16	69.10	61.10	54.01	47.75	42.22	37.33
25	536	0.215	22.602	88.35	78.05	68.96	60.93	53.83	47.56	42.01	37.12
26	542	0.216	22.477	88.29	77.95	68.82	60.76	53.64	47.36	41.81	36.91
27	548	0.218	22.354	88.23	77.84	68.68	60.59	53.46	47.16	41.61	36.71
28	554	0.219	22.232	88.17	77.73	68.53	60.42	53.27	46.97	41.41	36.51
29	560	0.220	22.113	88.11	77.63	68.40	60.26	53.09	46.78	41.22	36.31
30	566	0.221	21.995	88.05	77.52	68.26	60.10	52.91	46.59	41.02	36.12
31	572	0.222	21.880	87.99	77.42	68.12	59.94	52.74	46.40	40.83	35.92
32	578	0.223	21.766	87.93	77.31	67.98	59.78	52.56	46.22	40.64	35.73
33	584	0.225	21.654	87.87	77.21	67.85	59.62	52.39	46.03	40.45	35.54
34	590	0.226	21.543	87.81	77.11	67.71	59.46	52.21	45.85	40.26	35.35
35	596	0.227	21.435	87.75	77.01	67.58	59.30	52.04	45.67	40.08	35.17

CH#	Freq. MHz	ATTEN. in dB/100 ft	Average Power (Kilowatts)	250 ft	500 ft	750 ft	1000 ft	1250 ft	1500 ft	1750 ft	2000 ft
36	602	0.228	21.327	87.70	76.91	67.45	59.15	51.87	45.49	39.89	34.98
37	608	0.229	21.222	87.64	76.81	67.31	58.99	51.70	45.31	39.71	34.80
38	614	0.230	21.118	87.58	76.71	67.18	58.84	51.53	45.13	39.53	34.62
39	620	0.231	21.016	87.53	76.61	67.05	58.69	51.37	44.96	39.35	34.44
40	626	0.233	20.915	87.47	76.51	66.92	58.54	51.20	44.79	39.17	34.27
41	632	0.234	20.815	87.41	76.41	66.79	58.39	51.04	44.61	39.00	34.09
42	638	0.235	20.717	87.36	76.31	66.67	58.24	50.88	44.44	38.83	33.92
43	644	0.236	20.620	87.30	76.22	66.54	58.09	50.72	44.28	38.65	33.75
44	650	0.237	20.525	87.25	76.12	66.41	57.94	50.56	44.11	38.48	33.58
45	656	0.238	20.431	87.19	76.03	66.29	57.80	50.40	43.94	38.31	33.41
46	662	0.239	20.338	87.14	75.93	66.17	57.66	50.24	43.78	38.15	33.24
47	668	0.240	20.246	87.08	75.84	66.04	57.51	50.08	43.61	37.98	33.08
48	674	0.241	20.156	87.03	75.74	65.92	57.37	49.93	43.45	37.82	32.91
49	680	0.242	20.067	86.98	75.65	65.80	57.23	49.77	43.29	37.65	32.75
50	686	0.243	19.979	86.92	75.56	65.68	57.09	49.62	43.13	37.49	32.59
51	692	0.245	19.892	86.87	75.46	65.56	56.95	49.47	42.98	37.33	32.43
52	698	0.246	19.807	86.82	75.37	65.44	56.81	49.32	42.82	37.17	32.27
53	704	0.247	19.722	86.76	75.28	65.32	56.67	49.17	42.66	37.02	32.12
54	710	0.248	19.638	86.71	75.19	65.20	56.54	49.02	42.51	36.86	31.96
55	716	0.249	19.556	86.66	75.10	65.08	56.40	48.88	42.36	36.71	31.81
56	722	0.250	19.475	86.61	75.01	64.96	56.26	48.73	42.20	36.55	31.66
57	728	0.251	19.394	86.56	74.92	64.85	56.13	48.58	42.05	36.40	31.51
58	734	0.252	19.315	86.51	74.83	64.73	56.00	48.44	41.90	36.25	31.36
59	740	0.253	19.236	86.45	74.74	64.62	55.87	48.30	41.76	36.10	31.21
60	746	0.254	19.159	86.40	74.65	64.50	55.73	48.16	41.61	35.95	31.06
61	752	0.255	19.082	86.35	74.57	64.39	55.60	48.01	41.46	35.80	30.92
62	758	0.256	19.007	86.30	74.48	64.28	55.47	47.87	41.32	35.66	30.77
63	764	0.257	18.932	86.25	74.39	64.17	55.34	47.74	41.17	35.51	30.63
64	770	0.258	18.858	86.20	74.31	64.05	55.22	47.60	41.03	35.37	30.49
65	776	0.259	18.785	86.15	74.22	63.94	55.09	47.46	40.89	35.23	30.35
66	782	0.260	18.713	86.10	74.14	63.83	54.96	47.32	40.75	35.08	30.21
67	788	0.261	18.641	86.05	74.05	63.72	54.84	47.19	40.61	34.94	30.07
68	794	0.262	18.571	86.00	73.97	63.61	54.71	47.05	40.47	34.80	29.93
69	800	0.263	18.501	85.96	73.88	63.51	54.59	46.92	40.33	34.67	29.80

#### Standard Conditions:

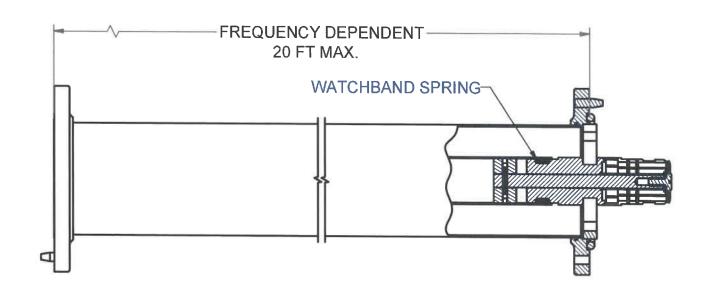
Attenuation: Ambient Temperature 20°C (68°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0, 0KW
Average Power: Ambient Temperature 40°C (104°F), Inner Conductor Temperature 100°C (212°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0

- -3 1/8", 50 OHM, E.I.A. TRANSMISSION LINE
- -EXPANSION TYPE INNER CONDUCTOR
- -ROHS MATERIAL COMPLIANT

# **CATALOG No. 301-007**

#### SUPPLIED WITH:

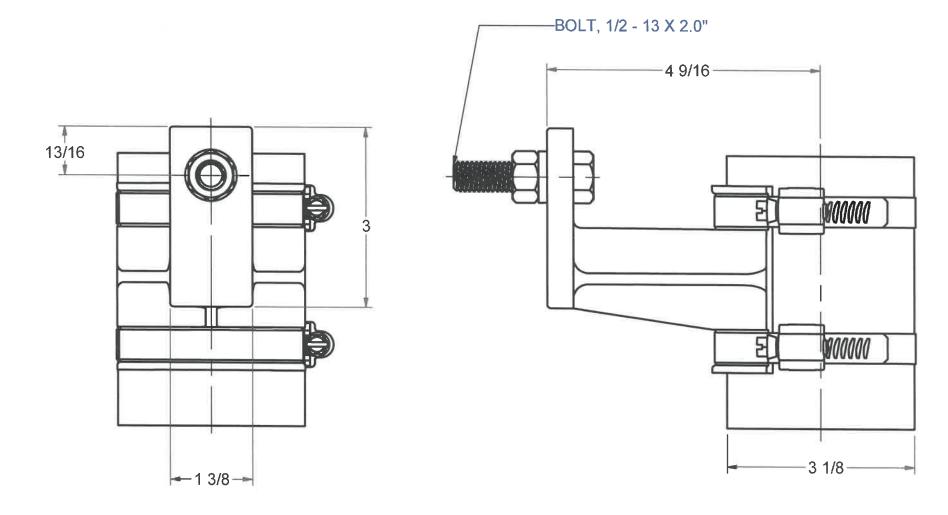
- -O-RING
- -HARDWARE KIT
- -ANCHOR CONNECTOR



ı	[7] [V] 360 FRANK	CAGE IDENT NO.	DRAWN	tdonnelly	DATE	2/2	5/2004	
	MATERIAL SHOP SHANK	28035	CHECKED	AW	DATE	3/9	/2004	
Į				ENGINEER	AW	DATE	3/9	/2004
- 1	ACCEMBLY LINE 2 4/0"	SIZE	SHEET	SALES DRA	WING NO.			REVISION
	ASSEMBLY, LINE 3 1/8"	<sub>^</sub>	1 OF 1	301-007				
	TRANSMISSION, EXPANSION TYPE	l A	SCALE	COMPUTER	RFILENAME			l B
ļ			3/8		301-007.ic	lw		

# **CATALOG #301-042-1**

- 1 5/8" BRONZE HANGER
- ALL STAINLESS STEEL LINE CLAMPS
- 1/2 -13 MOUNTING HARDWARE



TOTAL TOTAL 360 FRANKI	360 FRANKLIN TPK.			auner DATE	12/1	0/2003
LALL LMILLALD LINGO MAHWAH	28035	CHECKED A.	W DATE	12/1	0/2003	
	,		ENGINEER A.	W DATE	12/1	0/2003
VERTICAL FIXED HANGER, SINGLE	SIZE	SHEET OF 1	301-042			REVISION
LINE, FOR 3 1/8" RIGID COAX	A	SCALE NONE	COMPUTER FILE 301-04	NAME 42-1.idw		B

ALL STAINLESS STEEL MOUNTING GUIDE.

BRONZE LINE SADDLE.

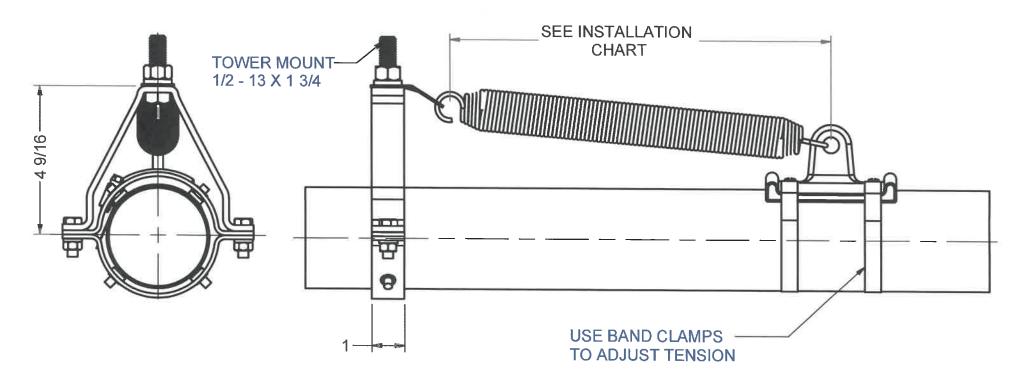
## **CATALOG #301-042-3**

#### **SUPPLIED WITH:**

- HEAVY DUTY BAND CLAMPS
- MOUNTING HARDWARE.

#### **USAGE:**

- USE ONE VERTICAL SUSPENSION HANGER FOR EACH 10 FEET OF TRANSMISSION LINE.
- THE INSTALLED SPRING SETTING IS A FUNCTION OF TEMPERATURE. USE THE VERTICAL SPRING SUSPENSION HANGER INSTALLATION CHART IN THE INSTALLATION MANUAL FOR PROPER SPRING SETTINGS



	AA MAHWAH	CAGE IDENT NO. 28035	DRAWN astichauner CHECKED A.W.		/15/2003	
Į				ENGINEER A.W.		/16/2003
	VERTICAL SPRING SUSPENSION	SIZE	SHEET 1	SALES DRAWING NO.		REVISION
	HANGER FOR 3 1/8" RIGID COAX	Δ	SCALE	COMPUTER FILE NAME	-3	-l ^
	SINGLE LINE		NONE	301-042-3.id	wb	

- ALL STAINLESS STEEL CONSTRUCTION

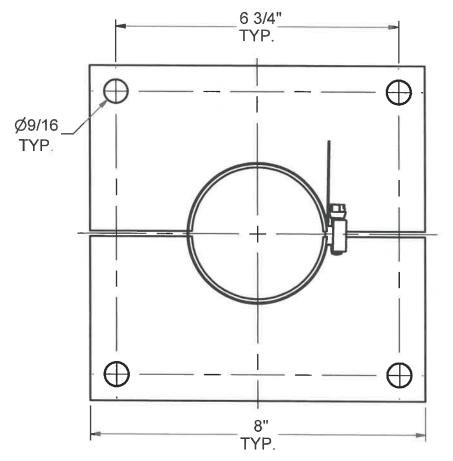
## **CATALOG #301-042-5**

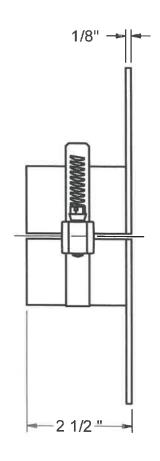
#### **SUPPLIED WITH:**

- STAINLESS STEEL HEAVY DUTY BAND CLAMPS

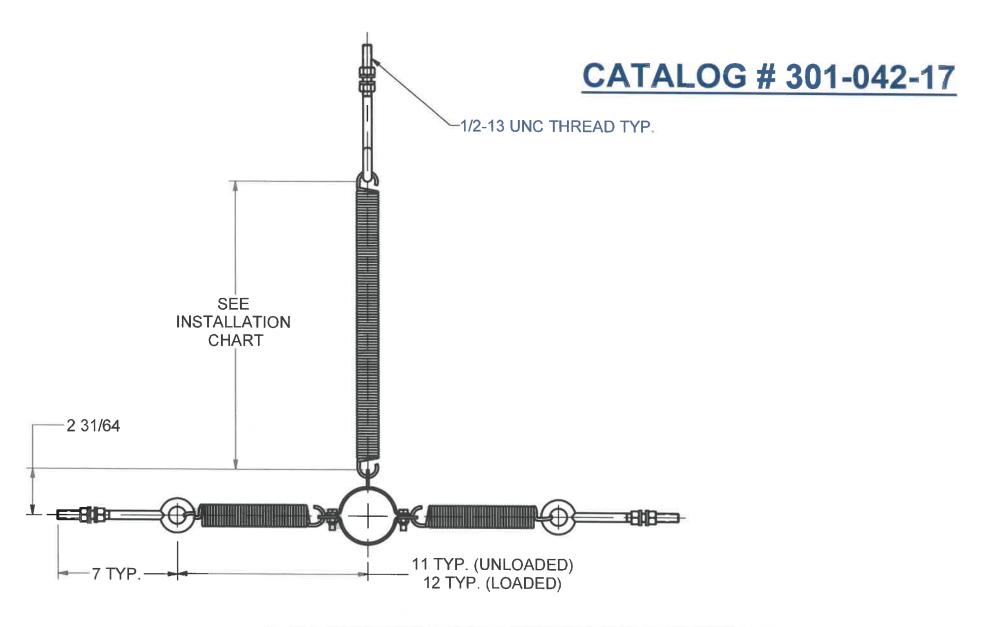
#### **USAGE:**

- USE ONE ANCHOR PLATE ON EACH SIDE OF THE TRANSMITTER BUILDING WALL TO ANCHOR THE HORIZONTAL TRANSMISSION LINE RUN.





[40] [10] 360 FRANK	LIN TPK.	CAGE IDENT NO.		hauner DATE	12/10	0/2003
MATERIAL MANUAL	28035	ENCINEED	DATE DATE		0/2003	
WALL ANCHOR PLATE FOR 3 1/8"	SIZE	SHEET 1 OF 1	SALES DRAWING	1. V.V.	12/10	REVISION
RIGID COAX LINE	Α	SCALE NONE	COMPUTER FILE	NAME 042-5.idw		В



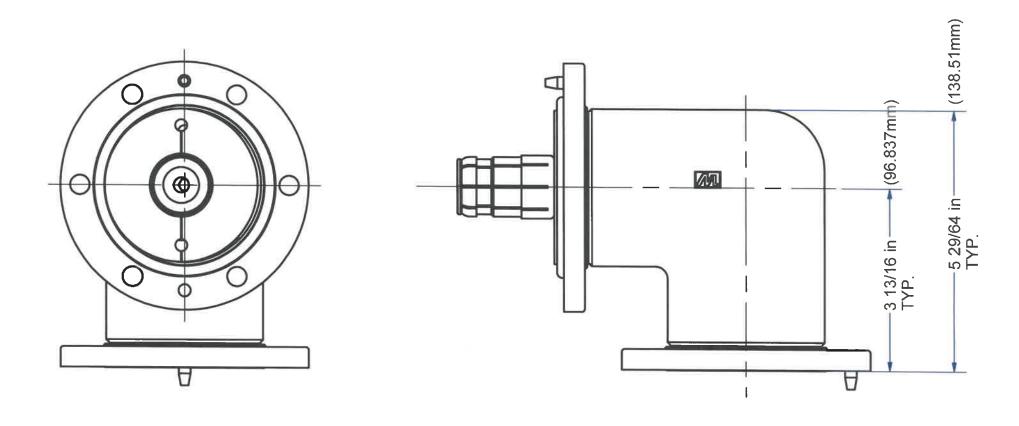
TOTAL TOTAL 360 FRANKI	IN TPK	28035	DRAWN	astichauner	DATE	2/27	7/2004
	360 FRANKLIN TPK. MAHWAH, N.J.			A.W.	DATE	3/2	/2004
	,		ENGINEER	A.W.	DATE	3/2	/2004
HORIZONTAL 3 POINT SPRING	SIZE	SHEET	SALES DR.	AWING NO.	11-11-1		REVISION
SUSPENSION HANGER FOR 3 1/8"	Λ	1 OF 1	30	01-042	-17		Б
	A	SCALE		R FILE NAME			В
RIGID COAX SINGLE LINE		NONE	30	01-042-17.i	idw		

- -FORGED BRASS OUTER CONDUCTOR
  -REINFORCED INSIDE, SWIVEL FLANGES
  -SILVER PLATED BRASS INNER CONDUCTOR

## **CATALOG #301-021**

#### **INCLUDES:**

- -(1) ANCHOR INSULATOR CONNECTOR WITH ANTI-SPLIT DEVICE.
- -(1) HARDWARE SET
- -(1) O-RING

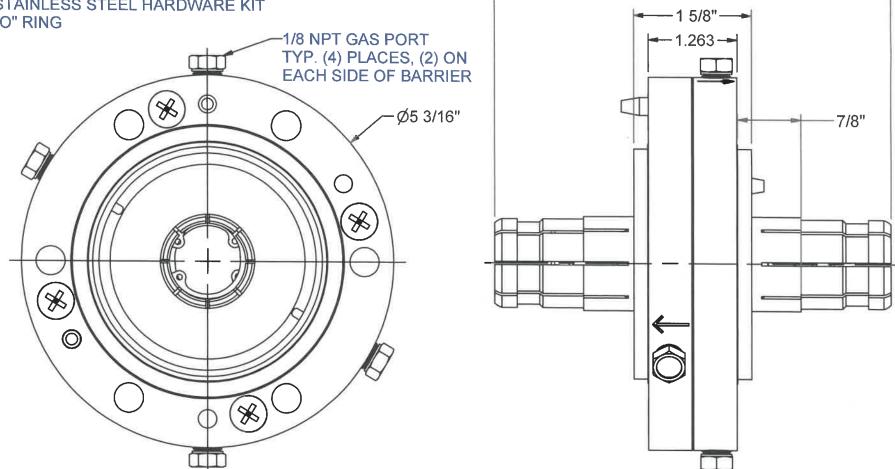


TOTAL TOTAL 360 ERANK	CAGE IDENT NO.	DRAWN	awhite	DATE	6/17	/2010		
MAHWAH, N.J.		28035	CHECKED	S.J.K. DATE 6		6/17	/17/2010	
			ENGINEER	A.W.	DATE	6/17	/2010	
3 1/8" 50 OHM 90 DEG. FORGED ELBOW,	SIZE	SHEET 1 OF 1	1/2		111		SALES DRAWING NO.	
CAPTIVE 3 13/16" LEG LENGTH	A	SCALE						

- HEAVY DUTY GAS BARRIER BRASS FLANGES.
- BRASS CONNECTORS.
- PTFE INSULATORS.

#### **INCLUDES:**

- STAINLESS STEEL HARDWARE KIT
- "O" RING



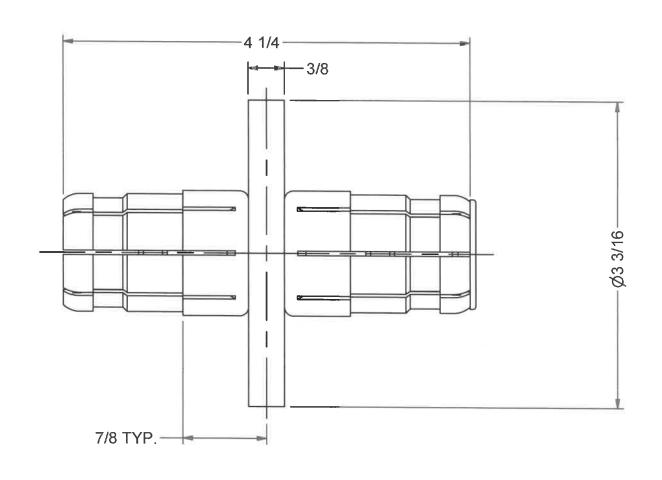
	TO SEPANK	360 FRANKLIN TPK.			G. RYAN	DATE	1/14	1/2004		
		MAHWAH, N.J.				CHECKED	A. WHITE	DATE	1/14	/2004
ļ		.,		ENGINEER	A. WHITE	DATE	1/14	1/2004		
	ASSEMBLY, GAS BARRIER.	SIZE	SHEET	SALES DRA	AND STREET	40 1979-1-1		REVISION		
- 1	AGGLINDLI, GAG DANNILN,	Α	1 OF 1	30	11-050-	-HD				
	HEAVY DUTY, 3 1/8" 50 OHM	A	SCALE	COMPUTER	R FILE NAME			1		
	11E/17 DOT1, 3 1/0 30 OT1101		NONE	30	1-050-HD.	idw		•		

**CATALOG # 301-050-HD** 

-5 1/2"-

- SILVER PLATED BRASS CONNECTOR
- ANTI-SPLIT DEVICE
- TEFLON INSULATOR
- CONFORMS TO 3 1/8 E.I.A. INTERFACE
- MATES WITH FLANGED 3 1/8" 50 OHM, E.I.A. TRANSMISSION LINE.

# **CATALOG No. 301-010**



	360 FRANKLIN TPK. MAHWAH, N.J.		CAGE IDENT NO.	DRAWN	tdonnelly	DATE	12/1	6/2003
			28035	CHECKED	AW	DATE	12/1	7/2003
ļ				ENGINEER	AW	DATE	12/1	7/2003
	ASSEMBLY, CONNECTOR 3	SIZE	SHEET	SALES DRA	WING NO.			REVISION
	ASSEMBLI, COMMECTOR S	Ι	1 OF 1		301-01	0		_
	1/8" 50 OHM F LA	l A	SCALE	COMPUTER	R FILE NAME			Δ
	170 30 OTTIVI, L.I.A.	' `	FULL	3	301-010.id	lw		/ \

#### NOTE:

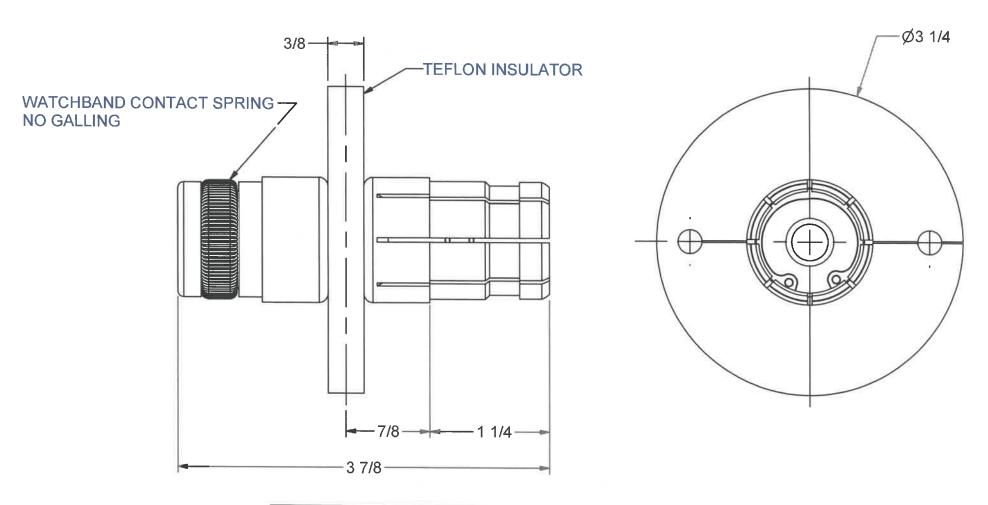
SILVER PLATED CONNECTOR

-WEIGHT 1.lb

-FOR USE WITH 301-007 FLANGED

**EXPANSION TYPE LINE.** 

# **CATALOG # 301-010-E**

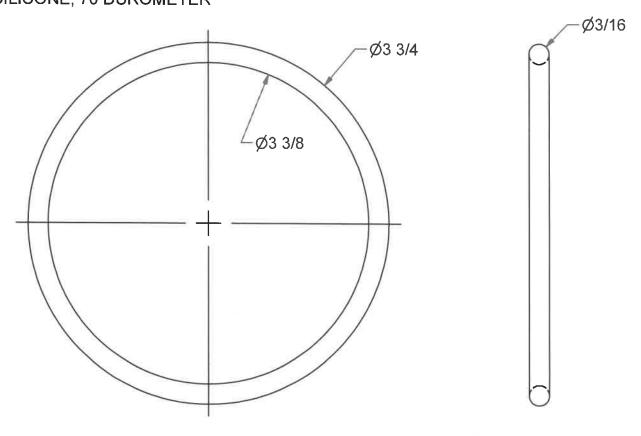


	360 FRANKLIN TPK.		28035	DRAWN	astichauner	DATE	1/12	2/2004
-	- 1 //I V /I I I I I I I I I I X A NI I / N I I I A TI I L	MANUALIN TPK. I GO MAHWAH, N.J.		CHECKED	A.W.	DATE	1/13	3/2004
				ENGINEER	A.W.	DATE	1/13	3/2004
- 1	ANOLIOD INCLUATION COMPLETE	SIZE	SHEET	SALES DR	AWING NO.			REVISION
	ANCHOR INSULATOR CONNECTOR,	_	1 OF 1	3	01-010	)-E		Б
	3 1/8", 50 OHM, EXPANSION TYPE	A	SCALE		R FILE NAME			В
	,		1:1	3	01-010-E.id	wb		

-3 1/8" FLANGE O-RING FOR E.I.A. FLANGE CONFORMING TO 3 1/8" E.I.A. TRANSMISSION LINE COMPONENTS.

-DIMENSIONS SHOWN ARE NOMINAL, ACTUAL DIMENSIONS CONFORM TO AS-568A NUMBERING SYSTEM AND P/N AS-568A-340 70SL MATERIAL: SILICONE, 70 DUROMETER

## **CATALOG No. 301-011**

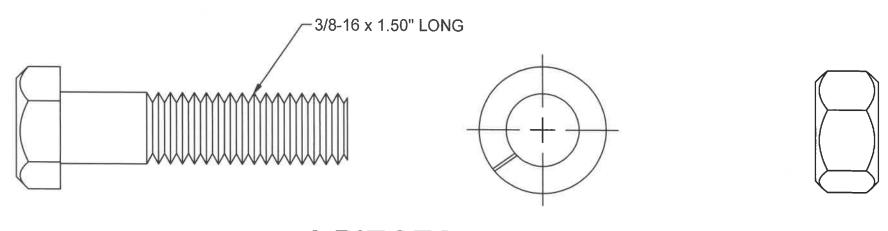


TO THE TOTAL 360 FRANKI	360 FRANKLIN TPK. OMAHWAH, N.J.		DRAWN SKolvek	DATE 4/2	20/2020
//    //			CHECKED A.S.	DATE 4/2	20/2020
			ENGINEER S.J.K.	DATE 4/2	20/2020
	SIZE	SHEET	SALES DRAWING NO.		REVISION
O-RING. SILICONE 3 1/8"	O-RING SILICONE 3 1/8" A		301-01	1	
O MINO, OILIOONE 3 1/0	A	SCALE	COMPUTER FILE NAME		1 A
		FULL	301-011 id	W	" `

# CATALOG No. 301-012 STAINLESS STEEL HARDWARE SET FOR 3 1/8" FLANGES

#### **KIT FEATURES:**

- -(6) 3/8-16 X 1.5 HEX HEAD CAP SCREW
- -(6) 3/8 LOCKWASHER
- -(6) 3/8-16 HEX NUT
- -ALL PARTS CORROSION RESISTANT STAINLESS STEEL
- -HEX NUT COATED WITH AN MOLYBDENUM DISULFIDE



6 PIECES PER SE	T
-----------------	---

	TOTAL TOTAL 360 ERANK	I IN TOK	CAGE IDENT NO.	DRAWN	SKolvek	DATE	4/20	0/2020
	360 FRANKLIN TPK. MAHWAH, N.J.		28035	CHECKED	J.T.S.	DATE	4/21	/2020
-				ENGINEER	S.J.K.	DATE	4/20	0/2020
- 1	HARDWARE SET FOR	SIZE	SHEET	SALES DRA	WING NO.			REVISION
	HANDWANE SET FOR	_	1 OF 1		301-01	2		_
		I A	SCALE	COMPUTER	FILE NAME			Δ
	3 1/8" FLANGES	′ `	2/1	1	801-012.id	w		/ \

- -3 1/8" 50 OHM, E.I.A. TRANSMISSION LINE
- -MAXIMUM SPECIFIED LINE LENGTH = 20 FEET
- -MINIMUM SPECIFIED LINE LENGTH = 5 INCHES
- -ROHS MATERIAL COMPLIANT

#### **SUPPLIED WITH:**

- -O-RING
- -HARDWARE KIT

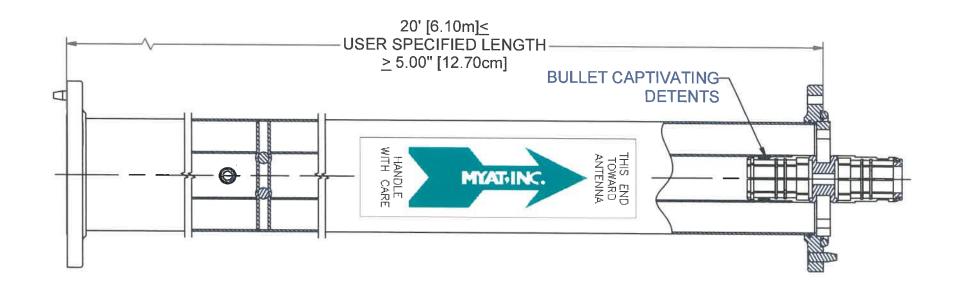
# CATALOG No. 301-002 (20') CATALOG No. 301-002-000

#### AT TIME OF ORDER:

- SUFFIX <u>-000</u> IS REPLACED BY THE SPECIFIED LINE LENGTH IN INCHES WITH A "-XXX.XXX" FORMAT

#### **EXAMPLES:**

LENGTH 10' 5/8" IS CATALOG # 301-002-120.625 LENGTH 7 7/8" IS CATALOG # 301-002-7.875



TOTAL TOTAL SECTION AND SECTIO	I IN TDK	28035	DRAWN tdonnelly	DATE	3/2/2004
	360 FRANKLIN TPK.		CHECKED AW	DATE	3/9/2004
			ENGINEER AW	DATE	3/9/2004
RIGID TRANSMISSION	SIZE	SHEET	SALES DRAWING NO.	//	REVISION
TAIOID HAMIOINIOOIOIA		1 OF 1	301-00	2	
LINE 2 4/0" FO OLIM ELA	Α	SCALE	COMPUTER FILE NAME		- R
LINE 3 1/8", 50 OHM, E.I.A.	/ \	3/8	301-002.id	M/	
, , , , , , , , , , , , , , , , , , , ,		0,0	J 301-002.10	VV	1

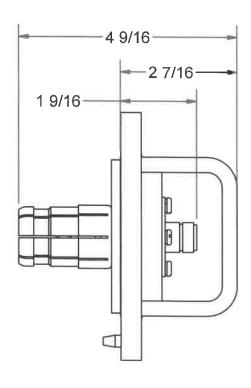
- -LIGHT WEIGHT ALUMINUM FLANGE
- -SILVER PLATED BRASS 3 1/8" CONNECTOR
- -SILVER PLATED BRASS INNER CONDUCTOR
- -TYPE "N" FEMALE (JACK) CONNECTOR
- -3 1/8" 50 OHM E.I.A. INTERFACE
- -UNPRESSURIZED DESIGN

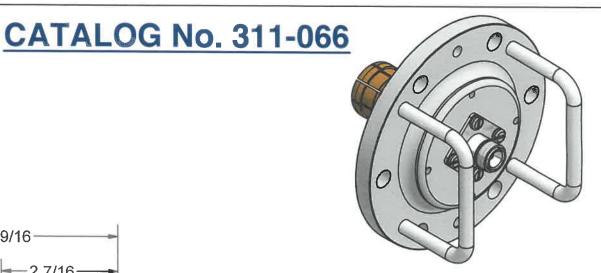
#### **SUPPLIED WITH:**

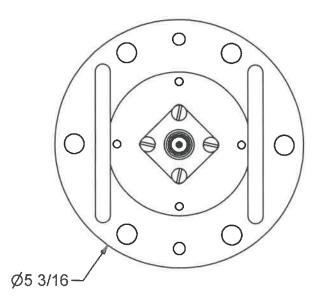
-HARDWARE FOR 3 1/8" FLANGE

#### **SPECIFICATIONS:**

- -VSWR ≤ 1.04:1 50-806MHz
- -MAX AVERAGE POWER 1000W







	7	I IN TOK	CAGE IDENT NO.	DRAWN	awhite	DATE	3/9	/2010
	KAMI LMILA DILI GO MAHWAH		28035	CHECKED S.J.K.		DATE	3/10/2010	
		,		ENGINEER	A.W.	DATE	3/9	/2010
	STEP REDUCER 3 1/8" 50	SIZE	SHEET	SALES DRA	WING NO.			REVISION
	STEP REDUCER, STIO, SU		1 OF 1	9	311-06	6		_
	OLIM TO TYPE "NI"	A	SCALE	COMPUTER	FILE NAME	_		Δ
- 1	UNIVITO TYPE N	* <b>`</b>	1/2	3	11-066.id	N		/ \



Rep: Mike T Moreno

mmoreno@scmsinc.com (800) 438-6040 Quote

Date	Quote #
7/7/2020	QT20519

Bill To	Ship To

AP NEEDS 3 COPIES OF INVOICE WV PUBLIC BROADCASTING 124 INDUSTRIAL PARK ROAD BEAVER WV 25813 United States SITE MANAGER EDUCATIONAL BROADCASTING WSWP-... 124 INDUSTRIAL PARK ROAD BEAVER WV 25813 United States **Corporate Office** 

Remit to:

SCMS, Inc. SCMS Inc 10201 Rodney St Pineville NC 28134-7540

Phone 800-438-6040 fax sales@scmsinc.com

Sales Rep	PO#	Ship Via	Terms
Mike T Moreno	TBD	Bestway - Ground	Net 30

2500		200000	manual manua	0.5.05-8.020			
Line	Qty	ltem	De	escription	MSRP	Unit	Ext.
1	1	Alive Telecommunications ATC-BCE04O-V0-8	High Power VHF Transmit Anten	na, CH8	126,000.00	105,000.00	105,000.00
2	23	Myat 301-007-240	TRANS. LINE ASSY. 3 1/8 EXPANSION 240" WSWP CH 8 DTV VERTICAL RUN: 400 FT. HORIZONTAL RUN: 50 FT. (450 FT TOTAL PER CUSTOMER) 3 1/8 COAX LINE LINE LOSS: 0.125dB/100 FT. AVERAGE POWER: 39.003 kW BILL OF MATERIALS BASED ON DETAILS SUBMITTED BY CUSTOMER.		1,200.00	989.01	22,747.23
3	2	Myat 301-042-1	Hanger, Fixed, Single (catalog pg	. 47)	100.00	82.42	164.84
4	38	Myat 301-042-3	Hanger, Vertical Spring, Single (c	atalog pg. 47)	145.00	119.51	4,541.38
5	1	Myat 301-021	90 degree Elbow Flanged, Reinfo	rced Inside and Outside (catalog pg. 37)	590.00	486.26	486.26
6	1	Myat 301-042-8	Lateral Brace (catalog pg. 48)		198.00	163.19	163.19
7	5	Myat 301-042-17	Hanger, 3 Point Suspension, Sing	le (catalog pg. 49)	250.00	206.04	1,030.20
8	2	Myat 301-042-5	Anchor Plate (catalog pg. 48)		240.00	197.80	395.60
9	1	Myat 301-050-HD	Gas Barrier Heavy Duty (catalog	pg. 40)	675.00	556.32	556.32
10	4	Myat 301-002-120	DUAL SIDED TRANS LINE ASSY. 3 1/8 FLANGED 120" ABOVE LINES TO BE USED FOR FIELD DETERMINED LINES		810.00	667.58	2,670.32
11	4	Myat 301-021	90 degree Elbow Flanged, Reinfo	rced Inside and Outside (catalog pg. 37)	590.00	486.26	1,945.04

Quote

Date	Quote #
7/7/2020	QT20519

Line	Qty	Item	Description		MSRP	Unit	Ext.
12	1	Myat 301-010	Anchor Insulator Connector (catalog pg. 35)		82.00	67.58	67.58
13	1	Myat 301-010-E	Anchor Connector, Exp. Type (Used with 301-007)	98.00	80.77	80.77	
14	5	Myat 301-011	"O" Ring - Silicone (catalog pg. 36)	3.50	2.89	14.45	
15	5	Myat 301-012	Hardware Set (catalog pg. 36)			9.89	49.45
16	1	Myat 311-066	Reducer, Plate Type to "N" Female (catalog pg. 41)		470.00	387.36	387.36
	Subtotal Shipping Cost Total				way - Groun		140,299.99 2,850.00 5143,149.99

<sup>\*\*\*\*</sup>ANY SHIPPING AMOUNT SHOWN IS AN ESTIMATE OF ACTUAL FREIGHT COST TO BE BILLED\*\*\*\*

All delivered Shipments are the responsibility of the purchaser. If a signature for proof of delivery is required, please specify.

TERMS & CONDITIONS: Quote is valid for 30 days with the exception of price increases from the manufacturer. All prices are FOB Origin. Taxes, e-procurement fees, and freight are not included. Package Sale Price is for payment within terms only, otherwise list price shown will be due. Net 30 Days terms are subject to credit approval. Required deposits and progress payment percentages are shown above. Partial invoicing for partial shipments will be allowed. All items remain the property of SCMS until paid for in full with all legal expenses required for collection paid by purchaser. Any stated deliveries are subject to SCMS stock availability and/or manufacturer's stock and production schedules at time of order. All used equipment is on a "first come, first served" basis. All returned products and cancellations require prior written approval and are subject to a restocking fee. All credit card and Paypal purchases are subject to a surcharge. Only manufacturer warranties are applicable.

Accepted by	
Signature	
Date	



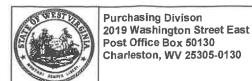
#### CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 2/12/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

_	nis certificate does not confer rights	to the cer	rtificate holder in lieu of s					
	DUCER			NAME: IVIALSO	en Haigh		EAV	
	rsden Haigh			PHONE (A/C, No, Ext): (70	4) 464-4555		(A/C, No): (70	04) 749-9449
	v South Insurance East Innes St			E-MAIL ADDRESS: MES	sages@news	southinsurance	e.com	
	isbury NC, 28144				INSURER(S) AFFO	RDING COVERAGE		NAIC #
Oai	Sbuty 140, 20144			INSURER A: Trav	/elers			19038
INSU	RED			INSURER B : Trav				19038
Scr	ns, Inc			INSURED C. T-	rs			19038
	01 Rodney St			LINGON	rs			19038
Pin	eville, NC 28134							10000
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	VERAGES HIS IS TO CERTIFY THAT THE POL	Com	WERCIAL		IE INSLIBE	ED NAMED ABOVE		OLICY PERIOD
C	ERTIFICATE MAY BE ISSUED OR IN  XCLUSIONS AND CONDITIONS OF SI	/	MERCIAL EABILITY INSURA		OTHER	DOCUMENT WITH D HEREIN IS SUE	RESPECT T	O WHICH THIS
INSR	TYPE OF INSURANCE			ICE	LICY EXP		LIMITS	
LTR A	X COMMERCIAL GENERAL LIABILITY		INSUKF	NOE	/20/20			1,000,000
Α					(20/20	DAMAGE TO RENT	ED 5	300,000
	CLAIMS-MADEOCCUR					PREMISES (Ea occ.		5,000
					1	MED EXP (Any one		1.000.000
						PERSONAL & ADV		<u> </u>
	GEN'L AGGREGATE LIMIT APPLIES PER:					GENERAL AGGREG		2,000,000
	POLICY JECT LOC				i i	PRODUCTS - COM		2,000,000
	OTHER:				4	COMBINED SINGLE	\$	000 000
В	AUTOMOBILE LIABILITY				0/20	(Ea accident)	4	,000,000
	x ANY AUTO					BODILY INJURY (Pe	er person) \$	
	x OWNED x SCHEDULED AUTOS	V.				BODILY INJURY (Pe		
	X HIRED X NON-OWNED AUTOS ONLY				1	PROPERTY DAMAG	∌E \$	
		L					\$	
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	EXCESS LIAB CLAIMS-MADE					AGGREGATE	\$	
	DED RETENTION \$						\$	
С	WORKERS COMPENSATION	UB-8N113156	06/20/19	9 06/20/20	PER STATUTE	OTH- ER		
0	AND EMPLOYERS' LIABILITY  ANY PROPRIETOR/PARTNER/EXECUTIVE		05-014110100	00,20,	00,20,20	E.L. EACH ACCIDE		00,000
	OFFICER/MEMBER EXCLUDED? (Mandatory in NH)					E.L. DISEASE - EA E		
	If yes, describe under DESCRIPTION OF OPERATIONS below					E.L. DISEASE - POL		00.000
_			OUD 01400440	00,100,14	9 06/20/20	E.E. DIOZYIOZ I OZ	JOT EIIIIT	00.000
D	Commercial Umbrella		CUP-8N432143	06/20/1	9 06/20/20			
need	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	I ES (ACORI	101 Additional Remarks Schedul	le may be attached if i	nore space is requir	red)		
الانور	TOTAL OF SETENATIONS / LOOKINGTON / VERIOUS		,	, ee amoned II I				
CE	RTIFICATE HOLDER			CANCELLATIO	N			
Διια	lio Visual Service Group, LLC			SHOLD DANK S	ETHE ADOME S	ECODIDED DOLLO	EC DE CANO	III ED BEFARE
	PSAV			SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFO THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED				
	0 N. River Rd., Suite 300				WITH THE POLIC			
	iller Park, IL 60176						1	,
				AUTHORIZED REPRE	SENTATIVE A	11-1	111	
					[1]	151	46	8



## State of West Virginia **Request for Quotation**

13 - Equipment

Proc Folder: 739235

Doc Description: HIGH POWER VHF TV TRANSMIT ANTENNA

Solicitation No

Proc Type: Central Purchase Order

**Solicitation Closes** 

2020-06-26 2020-07-14

**CRFQ** 

0439 EBA2000000029

Version

13:30:00

**BID RECEIVING LOCATION** 

**BID CLERK** 

Date Issued

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV

25305

US

VENDOR

Vendor Name, Address and Telephone Number:

SCMS INC.

10201 RODNEY ST. PINEVILLE, NC 28/20

1-600-438-6040

FOR INFORMATION CONTACT THE BUYER

Dusty J Smith (304) 558-2063 dusty.j.smith@wv.gov

Signature X

FEIN # 56-1170404

All offers subject to all terms and conditions contained in this solicitation

Page: 1

FORM ID: WV-PRC-CRFQ-001

#### ADDITIONAL INFORMATION:

ONE TIME

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, EDUCATIONAL BROADCASTING AUTHORITY, IS SOLICITING BIDS FOR THE ONE-TIME PURCHASE OF HIGH POWER VHF TV TRANSMIT ANTENNA PER THE ATTACHED DOCUMENTS.

QUESTIONS REGARDING THE SOLICITATION MUST BE SUBMITTED IN WRITING TO DUSTY.J.SMITH@WV.GOV PRIOR TO THE QUESTION PERIOD DEADLINE CONTAINED IN THE INSTRUCTIONS TO VENDORS SUBMITTING BIDS.

\*\*\*\*PLEASE NOTE MAKE SURE YOU DOWNLOAD BOTH OF THE SOLICITATIONS \*\*\*\*

INVOICE TO		SHIP TO	
CHIEF FINANCIAL OFFI	CER	SITE MANAGER	
EDUCATIONAL BROAD	CASTING	EDUCATIONAL BROAD	CASTING
124 INDUSTRIAL PARK	RD	WSWP-TV	
		124 INDUSTRIAL PARK	RD
BEAVER	WV25813	BEAVER	WV 25813
us		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	HIGH POWER VHF TV TRANSMIT ANTENNA	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #	
43221703				·

#### **Extended Description:**

HIGH POWER VHF TV TRANSMIT ANTENNA

#### SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<b>Event Date</b>
1	TECHNICAL QUESTIONS DUE AT 10AM	2020-07-06
1	TECHNICAL QUESTIONS DUE AT 10AM	2020-07-06

	Document Phase	<b>Document Description</b>	Page 3
EBA2000000029	Final	HIGH POWER VHF TV TRANSMIT	of 3
		ANTENNA	

## ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions