



NTP Approved: Yes - Safety Climb Usable: Yes



AMERICAN TOWER®
CORPORATION

TOWER REMEDIATION SCOPE OF WORK

As-Built Sign Off:

Reviewed By:

Contractor Name

Contractor Representative

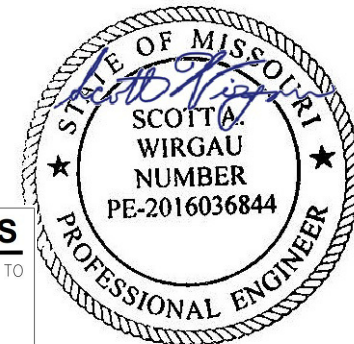
CONTRACTOR REDLINE DRAWINGS

MODIFICATION INSTALLATION WAS REVIEWED FOR CONFORMANCE TO CONTRACT DOCUMENTS.


- ☒ NO CHANGES FROM ORIGINAL DRAWINGS
- ☐ CHANGES AS NOTED



[Signature]



NELSON DILLOW, P.E.
SENIOR PROJECT MANAGER | TOWER ENGINEERING PROFESSIONALS, INC.






Authorized by "EOR"
17 Nov 2021 02:53:41



ATC Site Number & Name	209106, Lee's Summit 2, MO	 <p>AMERICAN TOWER® CORPORATION</p> <p>Engineering Contact: engineering@americantower.com</p>	Eng. Number	13350476_N3_01
Tower Description	150-ft Monopole		Date	11/17/2021
Code	TIA-222-H		Page	1 of 6
Site Location	900 Southwest Blue Parkway Lee's Summit, MO 64063 Jackson County 38.91020005, -94.39127213		Reviewed by	IC
			Priority	N/A
			ATC TOWER SERVICES	COA: 2015011232


Bid Item	1		
Deficiency Photo	Description of Work	1	As-Built Photo
	<p>Ensure tower base is properly grounded, (1) installed properly. Install any missing grounding and repair or replace any damaged grounding.</p> <p>Upon inspection, TEP observed that the entire compound was concrete, preventing additional grounding installation. Per correspondence with ATC, TEP left existing grounding as-is.</p>		



Bid Item	2		
Deficiency Photo	Description of Work	1	As-Built Photo
	<p>Remove (2) existing step bolt bracket at 90', and 99', on Monopole. Install new AllFasteners NexGen2 blind-bolt assembly with step bolt adapter or ATC approved equivalent directly above existing step bolt bracket(s). New step bolts to be 5/8"Ø x 8" ASTM A449.</p> <div style="border: 1px solid black; padding: 5px;"> <p>CONTRACTOR REDLINE DRAWINGS</p> <p>MODIFICATION INSTALLATION WAS REVIEWED FOR CONFORMANCE TO CONTRACT DOCUMENTS.</p> <p><input type="checkbox"/> NO CHANGES FROM ORIGINAL DRAWINGS</p> <p><input checked="" type="checkbox"/> CHANGES AS NOTED</p> <p><i>Nelson Dillow</i></p> <p>NELSON DILLOW, P.E. SENIOR PROJECT MANAGER TOWER ENGINEERING PROFESSIONALS, INC.</p> </div>		

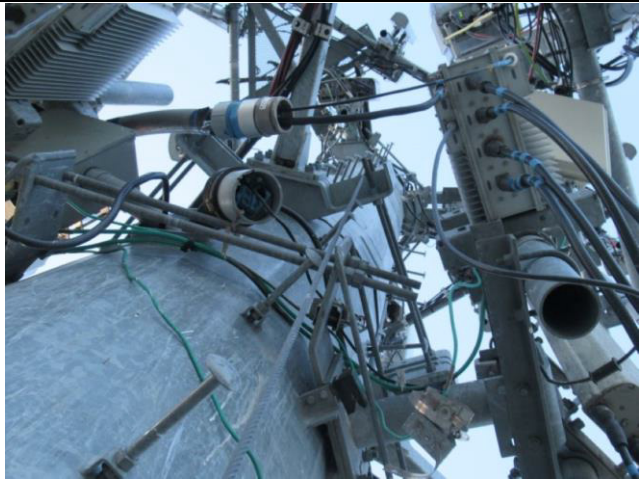

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Bid Item	2		
Deficiency Photo		Description of Work	As-Built Photo
		Additional photos provided for Bid Item 2. Please see description of work above.	



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Bid Item	3		
Deficiency Photo		Description of Work	As-Built Photo
		<p>Install cable guides above and below obstructions at 99', 129' and 145' as needed to prevent cable from rubbing on obstruction(s). Install Tuf-Tug step bolt anchor brackets on the (3) existing step bolts above and below the obstruction(s) and all additional step bolts located through the obstruction(s).</p>	<p>1</p> 

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Deficiency Photo		Description of Work	As-Built Photo
		<p>Additional photos provided for Bid Item 3. Please see description of work above.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>CONTRACTOR REDLINE DRAWINGS</p> <p>MODIFICATION INSTALLATION WAS REVIEWED FOR CONFORMANCE TO CONTRACT DOCUMENTS.</p> <p> <input checked="" type="checkbox"/> NO CHANGES FROM ORIGINAL DRAWINGS <input type="checkbox"/> CHANGES AS NOTED </p> <p><i>Nelson Dillow</i></p> <p>NELSON DILLOW, P.E. SENIOR PROJECT MANAGER TOWER ENGINEERING PROFESSIONALS, INC.</p> </div>	<p>1</p> 

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Deficiency Photo		Description of Work	1	As-Built Photo
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Bid Item	4			
Deficiency Photo		Description of Work	1	As-Built Photo
		<p>Replace (1) missing step bolt at 104'. Step bolts to be a minimum of 5/8"Ø x 8" ASTM A449 w/ 4.5" unthreaded shank or equivalent.</p> <div style="border: 1px solid black; padding: 5px;"> <p>CONTRACTOR REDLINE DRAWINGS</p> <p>MODIFICATION INSTALLATION WAS REVIEWED FOR CONFORMANCE TO CONTRACT DOCUMENTS.</p> <p> <input checked="" type="checkbox"/> NO CHANGES FROM ORIGINAL DRAWINGS <input type="checkbox"/> CHANGES AS NOTED </p> <p><i>[Signature]</i></p> <p>NELSON DILLOW, P.E. SENIOR PROJECT MANAGER TOWER ENGINEERING PROFESSIONALS, INC.</p> </div>		

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General Notes

General

1. All work to be completed per applicable local, state, and federal codes and ordinances and comply with ATC Construction Specifications for wireless tower sites. The contractor is responsible for obtaining and abiding by all required permits.
2. All work indicated on these drawings shall be performed by qualified contractors experienced in tower and foundation construction.
3. The contractor shall notify the engineer of record immediately of any installation interferences. All new work shall accommodate existing conditions. Details not specifically shown on the drawings shall follow similar details for this job.
4. Any substitutions shall conform to the requirements of these notes and specifications and should be similar to those shown. All substitutions shall be submitted to the engineer of record for review and approval prior to fabrication.
5. Any manufactured design elements shall conform to the requirements of these notes and specifications and should be similar to those shown. These design elements must be stamped by an engineer professionally registered in the state of the project and submitted to the engineer of record for approval prior to fabrication.
6. All work shall be done in accordance with local codes and OSHA safety regulations.
7. The contractor is responsible for the design and execution of all miscellaneous shoring, bracing, temporary supports, etc. necessary, per ANSI/TIA-322 and ANSI/ASSE A10.48, to provide a complete and stable structure as shown on these drawings.
8. Contractor's proposed installation shall not interfere, nor deny access to, any existing operational and safety equipment.

Paint

1. As required, clean and paint proposed steel according to FAA advisory circular AC 70/7460-1K.

Bolt Tightening Procedure

1. Structural connections to be assembled and inspected in accordance with RCSC Specifications (specifications for structural joints using ASTM A325 or ASTM A490 bolts.)
2. Flange bolts shall be installed and tightened using direct tension indicating (DTI) squirter washers. DTI squirter washers are to be installed and oriented / tightened per manufacturer specifications to achieve desired level of bolt pre-tension.
3. In lieu of using DTI squirter washers, flange bolts may be tightened using AISC / RCSC "turn-of-the-nut" method, pending approval by the engineer of record (EOR). Tighten flange bolts using the chart below:

Bolt lengths up to and including four diameters	+1/3 turn beyond snug tight
Bolt lengths over four diameters but not exceeding eight diameters	+1/2 turn beyond snug tight

4. Splice bolts subject to direct tension shall be installed and tightened as per section 8.2.1 of the AISC "specification for structural joints using A325 or A490 bolts", located in the AISC manual of steel construction. The installation procedure is paraphrased as follows:

Fasteners shall be installed in properly aligned holes and tightened by one of the methods described in subsection 8.2.1 through 8.2.4.

8.2.1 Turn-of-Nut Pretensioning

Bolts shall be installed in all holes of the connection and brought to a snug tight condition as defined in section 8.1, until all bolts are fully compacted. Following this initial operation all bolts in the connection shall be tightened further by the applicable amount. There shall be no rotation of the part not turned by the wrench. Tightening shall progress systematically.

5. All other bolted connections shall be brought to a snug tight condition as defined in section 8.1 of the specification.

All bolt holes shall be aligned to permit insertion of the bolts without undue damage to the threads. Bolts shall be placed in all holes to complete the assembly. Compacting the joint to the snug-tight condition shall progress systematically from the most rigid part of the joint to the least rigid part, attained with a few impacts of an impact wrench or the full effort of an ironworker using an ordinary spud wrench to bring the connection to the snug-tight condition.


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