

Rev 5.6 (5-2-13)

GENERAL INSTRUCTIONS

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Inspector must be an ATC Climber or an approved ATC Climbing Vendor, and you must follow all OSHA and local safety codes while on ATC towers.

Inspector must contact the local ATC Field Operations Technician (FOT) and NOC before mobilizing to the site.

Explanation of acceptable options when filling out Tower Inspection Form Tab:

Yes - Self Explanatory

No - Self Explanatory Corrected - Uniock box in repairs were made to meet the requirements for passing grade. (Take before and after priotos)

N/A - Check box if the item does not apply.

- When noting STRUCTURAL items on the Inspection Form, please provide exact location with height, leg and which face designation. B. (i.e. 230' level on leg A). MAKE SURE ALL DISCREPANCIES ARE NOTED IN THE SUMMARY AND COMMENTS SECTIONS.
- C. Members that are bent, damaged, or missing must be reported and sizes and/or part numbers provided.
- D. Note location, diameter, length, and quantity of missing bolts in inspection report as discrepancies.
- Note areas of rust as discrepancies only, providing clear photographs and description of issues. Do not repair at time of inspection. E.
- Tower legs are named as follows: The leg closest to magnetic north is designated as Leg A. Going clockwise, the remaining legs are designated as Leg B, Leg C. Tower faces will be designated as follows: Face AB for the face between Leg A and Leg B
- Note all discrepancies in the Comments and Summary sections of this report. Identify them on the tower with masking tape and magic marker. G. Take photo before and after any repair - See Photo Logs.
- Fill out all sub forms where applicable: Inspection, Guy Tension, Tower Height Verification/Tape Drop, Twist and Plumb, H. Twist and Plumb must be done for all Guyed Towers and Self-Supporting Towers.
- Wind speed must not exceed 15 MPH while measuring guy cable tensions or Twist/Plumb data points.
- ANY SAFETY ISSUES THAT ARE OF CONCERN MUST BE REPORTED TO ATC TOWER INSPECTIONS DEPT AND ATC FIELD OPERATIONS **TECNICIAN (FOT) IMMEDIATELY.**
- IF THE TOWER IS DETERMINED TO BE UNSAFE TO CLIMB, THE VENDOR MUST PROVIDE SUPPORTING WRITTEN AND PICTURE DOCUMENTATION. THIS DOCUMENTATION MUST BE SUBMITTED TO THE ATC TOWER INSPECTIONS DEPT AND ATC FIELD OPERATIONS **TECNICIAN (FOT) WITHIN 24 HOURS.**
- No information is required on Lighting Systems.
- Any items that prevent the completion of a tower inspection must be reported to Tower Inspections before leaving the site. Partial inspections will not be accepted. Do not invoice or submit partial or incomplete inspection reports.
- Follow Tower Inspections direction for submitting completed inspections. N.
- If bird nests are found on a tower, **DO NOT CLIMB**. Please contact Tower Inspections Dept & ATC Field Operations Technician (FOT) for further O. instructions before leaving the tower site.
- ANY ACCIDENTS WHILE ON SITE MUST BE REPORTED TO ATC WITHIN 4 (FOUR) HOURS OF INCIDENT.
- Q. All Inspections will be sent to an ATC FTP site. For site location and access contact:

American Tower Corporation

Attn: Mari Heisler-Reyes (e-mail: Mari.Heisler-Reyes@americantower.com)

8505 Freeport Parkway

Suite 135

Irving, TX 75063 972-999-8901

ATC Site Number

Contractor Name

Inspection Completed By

Site Address

City/State

Page 1

ATC TOWER INSPECTION FORM



ANSI-TIA/EIA-222 Compliant

SECTION A - SITE INFORMATION ATC Site Name, State : Unity Village, MO Number of Compounds: 1 Date of Inspection : 6/4/15 : Tower Engineering Professionals

SECTION B - TOWER INFORMATION

Structure Type	: Self-Supporting	Number of Tower Legs : 3
Tower Height	: 190.0	Climbing/Safety Device : Yes
Overall Structure Height	: 190.8	FCC/ASR Number : 1003933
Tower Manufacturer	: CNR (tower tag not installed)	AM Detuning ? : No

SECTION C - SITE INFORMATION CATEGORIES

SECTION A - Site Information **SECTION G - Safety Comments SECTION H - Grounding Comments SECTION B - Tower Information**

: 2150 NW Lowenstein DR

: Sean Arsenault and Kyle A. Petersen

: Lee's Summit MO

SECTION C - Tower Information Summary Comments SECTION I - Guy Anchors & Wires Comments

SECTION D - Summary of Deficiencies SECTION J - AM Detuning Comments SECTION K - Compliance

SECTION E - Tower Foundation Comments SECTION F - Tower Structure Comments

SECTION D- SUMMARY OF DEFICIENCIES

Instructions: List Comments in Sections E through J as applicable. Section D Summary will automatically populate.

- Tower finish is faded with signs of surface corrosion typical on all legs and members throughout tower. Photos: 72-75, 86-101, 105-108, 120, 127, 131, 132
- Loose bolts present on diagonal member of BC face near B leg at 44-ft. Photos: 104, 154 Corrected: 155, 157
- Galvanization faded with surface corrosion present on safety climb mount hardware at top of tower. Photos: 136-141
- 4. Grounding wire cut at A and B legs. Photos: 64-70

- 10
- 12.
- 13.
- 14.
- 15.

SECTION E - TOWER FOUNDATION

Instructions

Tower base should be visually inspected for spalling and cracking of the concrete. The soil surrounding the tower base foundation should be inspected for evidence of settlement. Any such settlement or movement should be noted.

Base drains (if present) should be clear of any obstructions. Penetrate drain with object to ensure drains functioning.

Base insulators (if present) - The porcelain surface should be wiped clean with a soft cloth to remove any salt deposits or other foreign substance. A check should be made for any evidence of deterioration or cracks in the porcelain surface.

All discrepancies must be marked with masking tape and magic marker.

All discrepancies must be noted and photographed and numbered.

Is tower center pin in place?

Is tower center pin free of corrosion?

Are all base plate bolts, nuts, and washers present?

Is the tower foundation in good condition? (No cracking, spalling, or settling)

Is the concrete tower base free from standing water?

Are base drains clear and free flowing? (Drains required only under tubular legs.)

Is porcelain surface of base insulators in good condition? (No deterioration or cracking)

Is the soil around the foundation in good condition? (No settling or movement)

Yes	٩	Correcte	Α×	F
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7

Place an x in the proper box

any comments exceed one row please expand the row height so that all of the text is visible. To expand rows automatically, click the Select All button, then click AutoFit Row Height in the Cells/Format box.

Comments:

SECTION I - GUY ANCH	IORS	& \	WIR	ES			Page 3
<u>Instructions</u>					Copyright © ATC	P, LLC - All Righ	•
All discrepancies must be marked with masking tape and magic marker and must be no	ted an	d p	_	graphed.			
			ected				
	"						
	Yes	ŝ	Corr	Place ar	x in the proper box		
Are the guy cables & paths clear of brush, vegetation, fencing or any other obstruction?							
Are the anchor heads and rods free from any bends and/or fractures?			_	(
Are the anchor heads and turnbuckle hardware free from soil build-up?		_					
Are exposed guy anchor foundations free from cracking, weathering? Excavate the soil around anchor shafts by hand to a distance of 36" (along the shaft) and 12"					IMPORTANT:		-
Do the turnbuckles have room for adjusting tensions? (Not fully extended or contracted?)			_		Shaft Location	Туре	-
Are the anchor heads free of corrosion?					Inner Anchor	. , , ,	
Is guy anchor rod laterally aligned?				-	Middle Anchor (If applica	ble)	
Are guy wires free of broken strands or insulators?				(Outer Anchor (If applicat		
Are the guy dampers secured and in good condition?				(Shaft Type	Select	
Are all shackles, clevises, thimbles, cotter pins, and Crosby clamps properly installed?				(Channel	С	
Are the dead-end grips in good condition?	\vdash	_			Double Channel	2C	4
Are the dead-end grip end-sleeves (ice-clips) installed? Are guy wires and guy hardware free of corrosion?	\vdash	_			Double Angle I-Beam or W-shape	2L I	-
Is each turnbuckle safety wire properly installed and secure? If not, make corrections.	H	\dashv			Solid Rod	SR	-
Are guy wire connections in satisfactory condition?	H	7		-	Double Solid Rod	2SR	-
Are guy attachment points to tower in good condition?				(Flat Plate	FPL]
					Helical	HL	
Note - If anchor shafts show signs of heavy corrosion at any point, stop digging immed	iately				Caisson	CSN	_
and complete the remainder of the inspection. Comments:					Please describe below	Other	_
1.							
2.							
3.							
4.							
5.							
6. 7.							
8.							
9.							
10.		10					
SECTION J- AM DE	IUNII	NG					
<u>mistructions</u> All discrepancies must be marked with masking tape and magic marker and must be no	ted an	d b	hoto	graphed.			
Note: If the tower has a base insulator (decommissioned AM hot tower) the box next to					wire feed is NOT an AM detur	ing device.	
· ·			eq	_		_	
			ected				
	es	0	Ď	٤	in the proper box		
le there on AM Detuning custom on the tower?	Σ,	Ž	<u> </u>	Place x	in the proper box		
Is there an AM Detuning system on the tower? Are the AM Detuning skirt wires securely attached to the tower?		Х		,			
Are the AM Detuning wires in good condition? (Broken, sharp bends, etc)							
Is the AM Detuning box securely attached to the tower or other mounting system?				(
Is the AM Detuning box in good condition? (Sealed, loose or missing hardware, etc)				C			
Is the exterior of the AM Detuning box free of rust and corrosion?				_			
Is the AM Detuning system properly grounded?	Ш						
Comments:							
1.							
2.							
SECTION K - COM	PLIAN	CE					
Landandard that this information and for	0						
I understand that this information and form are the sole property of American Tower and may not be copied or shared without written permission from ATC.	corpor	atio	on				
I certify this report to be accurate and complete to the best of my knowledge and beli	ef.						
Name : Matthew Paisley			Date	. 6/	1/15		
Hame . Ivialutew raistey		L	Jale	- 0/2	<u>4/15</u>		
Company : Tower Engineering Professionals							

Site #		306035				Dov E.C. (F 0 40\	C	anuriaht 6	ATC ID	11.0 411	Diahta F	ار مرمور
Site #		Unity Villa	ane MO			Rev 5.6 (0-2-13)	C	opyright @	AICIP	, LLC - All	Rights F	keservea
			ngineering Pro	fessionals									
			enault and Kyl		sen								
Date		6/4/15	,					AME	RICAN	TOW	ER°		Page 4
			GUY T	ENSI	ON N	1EAS	SUREN	ΛΕΝ.	TS				
*Noto -	Cable sizes r	nust ha me	easured with G										
			surements are					Tempe	rature (°	°F)			Please
at one	elevation are t	he same f	or all legs, pho	•					peed (N				1
of only	one leg are re	equired.						Wind D	irection	· ·			
(Northe	ernmost (A) A	nchor)											
Guy Level	Elev. (Ft.)	Dist. To Anchor (Ft.)	Guy Attachment Type	Cable Const.	measur *See	e Size ement - <i>Not</i> e ove	Paint Color on Dead-End Grip (If	"GP/Lef	red Tens ft" colur ·- *See <i>l</i>	nn for G	uy Pull-	Stre (adjus	Break ength eted for np.)
		(1 1.)	Туре		Size	Photo#	visible)	GP / Left	Photo#	Right	Photo#	GP / Left	Right
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2													
3													
<u>4</u> 5													
6													
7													
8													
9 10													
(B And	chor)												
(B AIIC	.1101)				Cable	Size	Deiss	Meas	ured Te	nsion (Lbs) -	0/ af	Break
Guy Level	Elev. (Ft.)	Dist. To Anchor (Ft.)	Guy Attachment Type	Cable Const.	measu *See	rement Note ove	Paint Color on Dead-End Grip (If visible)	Use "	GP/Left	" colur ull-Off	nn for	Stre (adjus ten	ngth ted for np.)
1					00		visible)	Left		· · · g · · ·		Left	
2													
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5													
6													
7 8													
9													
10													
(C And	hor)												
Guy Level	Elev. (Ft.)	Dist. To Anchor (Ft.)	Guy Attachment Type	Cable Const.	measu *See	e Size rement Note ove	Paint Color on Dead-End Grip (If	Use "	ured Te GP/Left Guy P See No	" colur ull-Off	nn for	Stre (adjus ten	Break ngth ted for np.)
					Size	Photo#	visible)	GP / Left	Photo#	Right	Photo#	GP / Left	Right
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2													
3													
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6													
7													
8													
9 10													
			1										



Page 4

3-SIDED TOWER TWIST AND PLUMB

Rev 5.6 (5-2-13)

	Face Width (Ft)	Elevation (Ft)
4th Taper Change OR Top of Tower		
3rd Taper Change <i>OR</i> Top of Tower		
2nd Taper Change OR Top of Tower		
1st Taper Change <i>OR</i> Top of Tower	2.75	190.00
Base of tower (Bottom of steel)*	17.00	0.00

: 306035

: 6/4/15

: Unity Village, MO Contractor Name: Tower Engineering Professionals

: Sean Arsenault and Kyle A. Petersen

Site #

Date

Site Name

Completed By

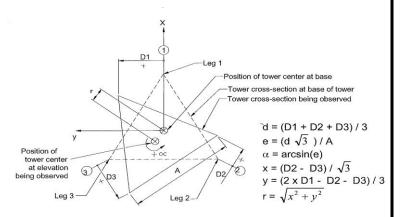
Temp (°F)	73
Wind Speed	6
Direction	SE

*For a GT w/ a tapered base, enter the face width at the top of the taper into Cell G14.

OBSERVED LEG DISPLACEMENTS						CALCULATED TWIST			CALCULATED OUT-OF-PLUMB		
Data Point	Mast Elev. * See Note (Ft)	A - Face Width (In)	D1 (ln)	D2 (ln)	D3 (In)	d (ln)	е	a (Deg)	x (ln)	y (ln)	r (ln)
1	20.00	186.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	40.00	168.00	0.06	0.00	0.13	0.06	0.00	0.04	-0.08	0.00	0.08
3	60.00	150.00	0.36	0.39	0.20	0.32	0.00	0.21	0.11	0.04	0.12
4	80.00	132.00	1.09	0.53	0.27	0.63	0.01	0.47	0.15	0.46	0.49
5	100.00	114.00	1.33	0.66	0.07	0.69	0.01	0.60	0.34	0.65	0.73
6	120.00	96.00	1.94	1.05	-0.13	0.95	0.02	0.98	0.68	0.98	1.20
7	140.00	78.00	2.48	1.31	-0.07	1.24	0.03	1.58	0.80	1.24	1.47
8	160.00	60.00	2.60	1.84	-0.07	1.46	0.04	2.41	1.10	1.14	1.59
9	180.00	42.00	2.66	2.10	-0.47	1.43	0.06	3.39	1.48	1.23	1.93
10	190.00	33.00	2.84	2.50	-0.47	1.62	0.09	4.89	1.71	1.22	2.10
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Tower Plumb and Twist Measurements

The transit is to be set up on each leg azimuth at the base of the tower. The corresponding tower leg at the base of the tower is used to set the vertical baseline.



* Mast Elevation Note

For guyed towers, record data at each guy elevation and at all taper change elevations. For self-supporting towers, record data at each 20' section and at all taper change elevations.

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4-SIDED TOWER TWIST AND PLUMB

-		
	Face Width (Ft)	Elevation (Ft)
4th Taper Change OR Top of Tower		
3rd Taper Change <i>OR</i> Top of Tower		
2nd Taper Change <i>OR</i> Top of Tower		
1st Taper Change <i>OR</i> Top of Tower		
Base of tower (Bottom of steel)*		0.00

: 306035

: 6/4/15

: Unity Village, MO Contractor Name: Tower Engineering Professionals

: Sean Arsenault and Kyle A. Petersen

Site #

Date

Site Name

Completed By

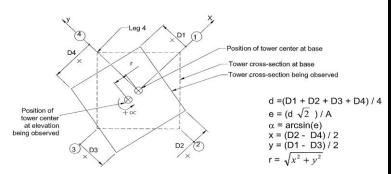
Temp (°F)	
Wind Speed	
Direction	
_	

*For a GT w/ a tapered base, enter the face width at the top of the taper into Cell G14.

OBSERVED LEG DISPLACEMENTS						CALCULATED TWIST			CALCULATED OUT-OF-PLUMB			
Data Point	Mast Elev. * See Note (Ft)	A - Face Width (In)	D1 (ln)	D2 (ln)	D3 (In)	D4 (In)	d (ln)	е	a (Deg)	x (ln)	y (In)	r (In)
1												
2												
3												
4												
5												
6												
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11												
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13												
14 15												
16												
17												
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19												
20												

Tower Plumb and Twist Measurements

The transit is to be set up on each leg azimuth at the base of the tower. The corresponding tower leg at the base of the tower is used to set the vertical baseline.



* Mast Elevation Note

For guyed towers, record data at each guy elevation and at all taper change elevations. For selfsupporting towers, record data at each 20' section and at all taper change elevations.

Q OF STRUCTURE

Site # : 306035
Site Name : Unity Village, MO
Contractor Name : Tower Engineering Professionals
Completed By : Sean Arsenault and Kyle A. Petersen
Date : 6/4/15



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Tower Height Verification Form

(feet)

190.8333

TOTAL TOWER HEIGHT = GROUND TO HIGHEST APPURTENANCE (F+S+A) =

2 (T)

HEIGHT of FOUNDATION (F) = 0.8333 (feet)

(Measure from ground at center of tower to top of baseplate)

HEIGHT of STRUCTURE (S) = 190 (feet)

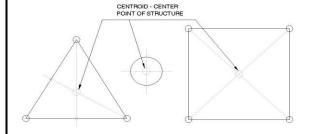
(Measure from top of baseplate to top of structure)

HEIGHT of APPURTENANCE (A) = 0 (feet)

HEIGHT with APPURTENANCE (F+S+A) = 190.8333 (feet)

Distance From Centroid At Base Of Structure To Laser Tripod

= (feet)



METHOD OF MEASUREMENT

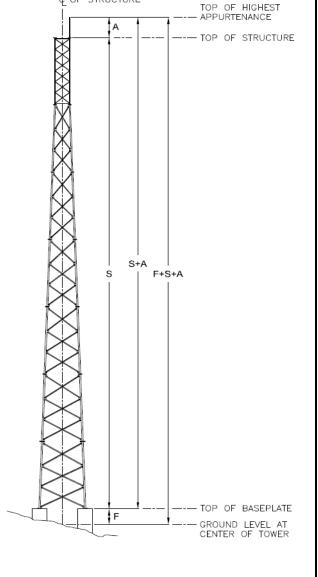
Tape DropRange Finder

(Accuracy to be within +/- 1' for structures Up to 100 feet. The accuracy is no better than +/- 1' for structures greater than 100 feet.) This method is generally used to validate existing distances only.

Range Finder Make and Model #	
Calibration Date	
Training Date	
MEASUREMENT CERTIFICATION	N:

 ${\bf Company:} \underline{\quad {\bf Tower\ Engineering\ Professionals}}$

Print Name: Sean Arsenault
Date: 6/2/2015



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Site Name : Unity Village, MO

Site #

Date

Contractor Name : Tower Engineering Professionals Completed By

: 306035





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COMPOUND PHOTOGRAPHS

This list represents the minimum number of photos required. The size of digital photos should be

1024 x 768.				
DESCRIPTION OF PHOTO	PHOTO #'S			
Photos from Ground				
Gate and Sinage				
Front Gate	40			
Close-up view of front gate and signage	26			
Close-up view of front gate and signage				
Total Tower				
Stand-off view of total tower	1			
Stand-off view of total tower, opposite previous side	18			
Partial Tower				
Incremental stand-off view of tower, bottom 1/3				
Incremental stand-off view of tower, middle 1/3	2 3			
Incremental stand-off view of tower, top 1/3	4,5			
Antenna Arrays (Rad Centers)				
Bottom antenna array, 1st	6			
Next antenna array, 2nd (if applicable)	7			
Next antenna array, 3rd (if applicable)				
Next antenna array, 4th (if applicable)				
Torque Arme (If applicable)				
Torque Arms (If applicable)				
Bottom torque arm, 1st (if applicable)				
Next torque arm, 2nd (if applicable)				
Next torque arm, 3rd (if applicable)				
Next torque arm, 4th (if applicable)				
Outside Compound				
Outside view of compound, gate view	27			
View of all signage	40			
Incide Commonad				
Inside Compound Inside view of compound, view just inside gate	29			
Inside view of compound, view just inside gate Inside view of compound, view just inside back fence	32			
inside view of compound, view just inside back fence	32			
Tower Base				
Close-up view of tower base, w/ signage	43			
Close-up view of tower manufacturer's ID Tag (If avail.)				
Close-up view of tower base, w/ concrete & grounding	59-62			
Close-up view of tower base, opposite previous view	64, 69, 71			
Close-up view inside tower base, w/ center pin				
Photos from Tower				
Photos from Tower				
Top Appurtenance				
Lightning rod (if applicable)				
Company				
Compound Compound view from top of tower	134			
Compound view from top of tower, opposite prev. side	135			
semposite from total top of total, apposite provided	1.55			
	<u> </u>			



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GUY ANCHOR PHOTOGRAPHS						
This list represents the minimum number of photos required. The size of digital photos should be 1024 x 768.						
DESCRIPTION OF PHOTO	PHOTO #'S					
Inner Guy Anchor (A Leg)						
Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view Guy Wire Grounding						
Guy Anchor Grounding						
Inner Guy Anchor (B Leg)						
Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view Guy Wire Grounding						
Guy Anchor Grounding						
Inner Guy Anchor (C Leg)						
Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view						
Guy Wire Grounding Guy Anchor Grounding						
Inner Guy Anchor (D Leg)						
Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view						
Guy Wire Grounding Guy Anchor Grounding						
Middle Guy Anchor (A Leg)						
Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view						
Guy Wire Grounding						
Guy Anchor Grounding Middle Guy Anchor (B Leg)						
Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view						
Guy Wire Grounding						
Guy Anchor Grounding Middle Guy Anchor (C Leg)						
Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view						
Guy Wire Grounding						
Guy Anchor Grounding Middle Guy Anchor (D Leg)						
Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view						
Guy Wire Grounding						
Guy Anchor Grounding						
Outer Guy Anchor (A Leg) Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view						
Guy Wire Grounding						
Guy Anchor Grounding						
Outer Guy Anchor (B Leg) Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view						
Guy Wire Grounding						
Guy Anchor Grounding						
Outer Guy Anchor (C Leg) Guy anchor, compound view						
Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view						
Guy Wire Grounding						
Guy Anchor Grounding						
Outer Guy Anchor (D Leg)						
Guy anchor, compound view Anchor Head (w/ turnbuckles, safety loop, and full view of preforms)						
Anchor shaft, close up view						
Guy Wire Grounding						
Guy Anchor Grounding						

Rev 5.6 (5-2-13)

Site # Site Name Contractor Name
Completed By
Date

: 306035
: Unity Village, MO
: Tower Engineering Professionals
: Sean Arsenault and Kyle A. Petersen
: 6/4/15 AMERICAN TOWER®

Date : 6/4/15	AMERICAN TOWER® Page 7			
MISCELLANEOUS / DI	SCREPANCY PHOTOGRAP	PHS		
This page is to be used to list additional				
miscellaneous or discrepancy photos as required.	with	an	"X".	
DESCRIPTION OF PHOTO	PHOTO #'S	Х	PHOTO #'S AFTER REPAIR	
Tower finish is faded with signs of surface corrosion typical on all led	rs 72-75 86-101 105-108 120	Х	KEPAIK	
Tower finish is faded with signs of surface corrosion typical on all leg Loose bolts present on diagonal member of BC face near B leg at 4-	1-f104-154 155 158		155, 157	
Galvanization faded with surface corrosion present on safety climb	m(136-141	X	100, 101	
Grounding wire cut at A and B legs. Photos: 64-70	64-70	Х		
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