



Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
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Steven L. Levine
Real Estate Consultant

February 13, 2003

Follow-up Structural Analyses Per Conditional Approvals

During the preceding months, the Council has given conditional approval to a number of exempt modification notices in connection with Cingular's GSM upgrade project. The Council is requiring certification that specified tower tests and/or repairs have been made prior to installation of Cingular's new equipment in some instances. This letter addresses the resolution of one or more of these conditions.

Attached are passing structural or other information for the following 2 towers in satisfaction of Council conditions of approval:

- 154 Sayles Road, Putnam - EM-CING-116-020718

Siting Council approval was conditioned on reinforcement of the tower per an 02 Wireless Solutions structural report dated June 24, 2002. A P.E.- certified "Final Report of Special Inspections" from Structural Engineers Coalition is attached confirming tower modifications and structural sufficiency.

- 482 Pigeon Hill Road, Windsor - EM-CING-164-020925

Siting Council approval was conditioned on confirmation that the wall thickness of the pipe extension be verified and that the pipe be replaced if necessary per the recommendation of URS. A P.E.- certified letter from URS is attached confirming that the pipe was replaced and now conforms to structural requirements.

Please feel free to call Steve Levine at (860) 513-7730 with questions concerning this matter. Thank you for your consideration.

**STRUCTURAL
ENGINEERS
COALITION**

Final Report of Special Inspections

**CONNECTICUT ENGINEERS
IN PRIVATE PRACTICE**

Project: SBA Tower #CT00680-S/8772 Modification
Location: Putnam, CT
Owner: SBA Properties, Inc.
Owner's Address: ~~80 Eastern Boulevard~~
Glastonbury, CT

Architect of Record:
Engineer of Record: John Irving Mathis, Registration #14220

To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved other than the following:

Comments:

(Attach continuation sheets if required to complete the description of corrections)

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted:
Special Inspector

Ryan B. Roy
(type or print name)

[Handwritten Signature]

11/22/02

Signature

Date



9829/C

**STRUCTURAL
ENGINEERS
COALITION**

Statement of Special Inspections

**CONNECTICUT ENGINEERS
IN PRIVATE PRACTICE**

Project: SBA Tower #CT00680-S/8772 Modification
Location: Putnam, CT
Owner: SBA Properties, Inc.
Owner's Address: 80 Eastern Boulevard
Glastonbury, CT 06033
Architect of Record:
Engineer of Record: John Irving Mathis, Registration #14220

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection requirements of the BOCA National Building Code. It includes a Schedule of Special Inspection Services applicable to this project as well as the name of the Special Inspector and the identity of other approved agencies intended to be retained for conducting these inspections.

The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Building Official, Structural Engineer and Architect of Record. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official, Engineer and Architect of Record. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official, Owner, Engineer and Architect of Record.

A Final Report of Special Inspections documenting completion of all required Special Inspections and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

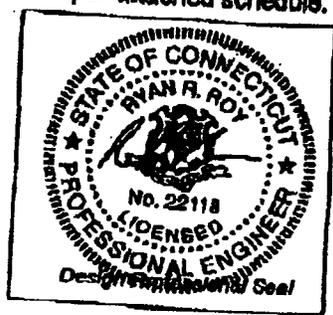
Interim Report Frequency:

Prepared by:

Ryan R. Roy PE

(type of print name)

or per attached schedule.



[Handwritten Signature]

Signature

08/08/02
Date

Owners Authorization:

[Handwritten Signature]

Signature

07/02
Date

Building Official's Acceptance:

[Handwritten Signature]

Signature

7/26/02
Date

Schedule of Special Inspection Services

The following sheets comprise the required schedule of special inspections for this project. The construction divisions which require special inspections for this project are as follows:

- | | |
|--|---|
| Soils and Foundations
Cast-in-Place Concrete
Precast Concrete
Masonry
x Structural Steel | Cold-Formed Steel Framing
Spray Fire Resistant Material
Wood Construction
Exterior Insulation and Finish System
Special Cases |
|--|---|

Inspection Agents	Firm	Address
1. Special Inspector	Jaworski Geotech, Inc Ryan R. Roy, PE	114 Woodlawn Road Berlin, CT 06037
2. Testing Laboratory	Eastern Materials Testing Lab, a division of Jaworski Geotech, Inc	114 Woodlawn Road Berlin, CT 06037
3. Testing Laboratory		
4. Other		

Note: The qualifications of all personnel performing Special Inspection activities are subject to the approval of the Building Official.

The inspection and testing agent shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflicts of interest must be disclosed to the Building Official, prior to commencing work.

The credentials of all inspectors and testing technicians shall be provided if requested.

It is recommended that the person administering the Special Inspections program be a Professional Engineer experienced in the design of buildings.

Key for Minimum Qualifications of Inspection Agents (where indicated on Schedules)	
PE	Professional Engineer
EIT	Engineer in Training
ACI	American Concrete Institute Certified Concrete Field Testing Technician
AWS	American Welding Society Certified Welding Inspector
ASNT	American Society of Non-Destructive Testing - Level II or III

Qualifications of inspection agents may be indicated on the Schedule in instances where the Structural Engineer deems such requirements are appropriate.

**Schedule of Special Inspection Services
Structural Steel**

Project: SBA Tower #CT00680-S/8772 Pylon, CT Modification

Sheet 3 of 4

Item	Agent No. (Qualif.)	Scope
1. Fabricator Certification/ Quality Control Procedures		
2. Material Certification	1,2	Review material certification test reports for bolt and structural steel.
3. Open Web Steel Joists		
4. Bolting	2	Review 100% of bolted connections in accordance with AISC specifications and project drawings. Verify anchor bolts are installed per manufacturer's installation procedures.
5. Welding	2	Verify welder certifications. 100% visual inspection of welds and Verify weld areas are prepared per project specifications.
6. Shear Connectors		
7. Structural Details		
8. Metal Deck		
9. Other	2	Verify galvanizing applied in accordance with manufacturer's Recommendations. Verify new anchor bolt epoxy is placed in accordance with manufacturer's instructions and project Specifications.



February 11, 2003

Mr. Nick Mincks
Bechtel Corporation
175 Capital Boulevard
Rocky Hill, Connecticut 06067

**Reference: Existing Telecommunications Facility
Cingular Site No.: 1144
MTSO Facility, 480-482 Pigeon Hill Road
Windsor, Connecticut
2292.10 / 36911669**

Dear Mr. Mincks:

URS Corporation AES (URS) was retained by Bechtel Corporation to prepare a Tower Analysis for the proposed upgrade of Cingular Wireless antennas located at 480-482 Pigeon Hill Road in Windsor, Connecticut. This is a supplement to our structural report prepared for the above site dated September 19, 2002. Our previous structural report required the pipe extension mounted at the top of the tower to be 4" in diameter with a wall thickness of 0.674".

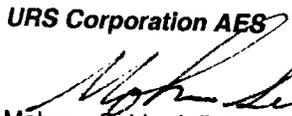
Cingular Wireless contractor McPhee Electrical LTD, LLC, found that the existing pipe extension did not comply with the thickness specified in the URS report and therefore replaced the pipe. URS was subsequently requested by Bechtel to verify the installation and hired Independent Materials Test Lab (IMTL) to verify the replaced pipe size. IMTL reported a 4.5" O.D. pipe (4" nominal) with a wall thickness of 0.625".

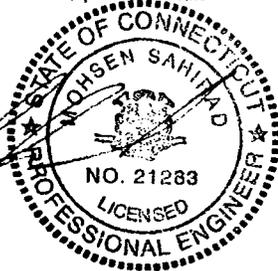
It is our determination that the installed pipe thickness is within acceptable tolerances and is adequate to support the proposed upgrade. For additional information see Independent Material Testing report, dated 01/10/03 and Revised 1/23/03.

If you should have any questions, please call.

Sincerely,

URS Corporation AES


Mohsen Sahirad, P.E.
Senior Structural Engineer



Enclosure

cc: I. Artaiz, AIA - URS
D. Roberts, AIA - URS
A. Abadjian, PM - URS
B. CF/Book

URS Corporation
500 Enterprise Drive, Suite 3B
Rocky Hill, CT 06067
Tel: 860.529.8882
Fax: 860.529.3991

Structural Steel Observation Report

Client: URS Corporation
Project: Cingular Wireless – Windsor
482 Pigeon Hill Road
Inspector: Dave Aiudi/Mark Richardson
Subject: Documentation of Findings

Project No.: 6027
Report No.: 001
Date: 01/10/03



The writer arrived at the existing three (3) leg lattice tower to provide specific information for the Cingular Wireless antenna mounting. Drawings of the antenna to pipe mount hardware, apparently not available, were not supplied to the writer. The pipe and mounting hardware were also not supplied, nor was a tower drawing.

The following conditions were found:

The three (3) antennas are mounted above the existing tower closely spaced and mounted to a galvanized pipe. No access was available to view the antenna to pipe mounting hardware since the assembly was above the tower framing. This type of assembly is not accessible in its present condition without safety apparatus above the tower. This type of mounting should be reviewed as an assembly on the ground and verified prior to being hoisted and secured to the tower.

The observed extension pipe was secured to the tower by four (4) 5/8" U-bolts, two (2) bottom and two (2) at the highest connection to the tower that could be made. Each U-bolt was secured with a flat washer, lock washer and nut. Each nut appeared snug tight with flattened lock washers.

The extension pipe was a galvanized 4-1/2" O.D. actual x 5/8" actual pipe section. Photos were taken where access was possible.

Documentation provided by client for this observation:

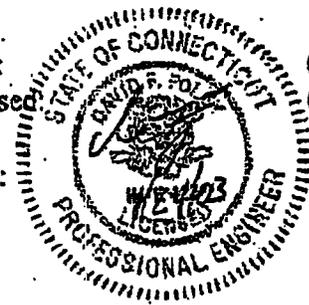
- * Work order
- * EMG Wireless Dual B and Polarization sheet
- * Page 2 of URS Structural Analysis Report

Pc: Peter Maxwell, URS Corporation
ka

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482 Pigeon Hill Road
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Page: 1 of 2



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The observed extension pipe was secured to the tower by four (4) 5/8" U-bolts, two (2) bottom and two (2) at the highest connection to the tower that could be made. Each U-bolt was secured with a flat washer, lock washer and nut. Each nut appeared snug tight with flattened lock washers.

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- ⊕ Page 2 of URS Structural Analysis Report

Cingular Wireless – Windsor
482 Pigeon Hill Road

Project No.: 6027 Report No.: 001
January 10, 2003 Page No.: 2 of 2

Revision Notes:

*Clarification of measurement was requested by the client. The thickness measurement of the pipe was taken at two (2) places at the bottom edge of the pipe where no flash or burrs were present. The device used was a standard Lufkin steel tape measure graduated in 1/16" increments. A vernier or micrometer accurate to .001" was not used.

Using the measuring tape as noted the actual measurement obtained was 5/8" and was not judged to be greater or less. No interpretation of this measurement to nominal requirements, galvanized thicknesses or use of measurement tolerances is intended in this report.

Pc: Peter Maxwell, URS Corporation
ka