

MEMORANDUM

TO: Michael G. Lewis, City Engineer/Director of Public Works
FROM: Brian D. Block, Traffic & Utility Technician *BD*
DATE: March 4, 2011
RE: Claim Against the City of West Allis by Badger Underground LLC. for repair work on a failed sanitary lateral connection to sanitary main.

SUMMARY

Badger Underground LLC. was hired by the property owner who was experiencing a back up of sewer water at the property addressed 2133 S. 85 St.

Badger Underground LLC. excavated in the pavement area at 2133 S. 85 St. and found that the bottom of the bell section of the wye connection was failed with the first pipe out from the wye severely displaced.

I instructed Badger Underground LLC. to make a temporary repair of the with sanitary lateral reconnection for 2133 S. 85 St. with a construction type connection at the failed section. The sanitary sewer is scheduled for relay with a 2011 Capital Improvement Project.

Badger Underground LLC. completed the repair and restored the pavement with a temporary asphalt patch..

FINDINGS & OBSERVATIONS

- **Existing conditions and utilities in S. 85 St. at the address 2133 S. 85 St.**

The pavement at 2133 S. 85 St. is a 30 ft. wide macadam pavement. The pavement is centered in a 60 ft. right of way. Both sides of the street have concrete sidewalks.

The City of West Allis underground utilities in S. 85 St. at the above-referenced address consist of the following:

UTILITY	YEAR INSTALLED	LOCATION
6 in. cast iron water main	1913	24 ft. west of east RoW line

8 in. clay sanitary sewer	1915	30 ft. west of east RoW line
16 in. cast iron water main	1929	24 ft. east of west RoW line

City records indicate that the existing sanitary sewer lateral at 2133 S. 85 St. is a 6 in. clay pipe installed in 1915.

CHRONOLOGY

Tuesday 12-14-10

City of West Allis Permit Number 7292 was issued to Badger Underground LLC. with the purpose of repairing a sanitary lateral sewer. Badger Underground LLC. stated that the property owner was experiencing a complete blockage.

Wednesday 12-15-10

Badger Underground LLC. excavated to the lateral connection to the sewer main and discovered that the bell section of the wye connection was cracked with the lateral pipe at the wye displaced down and gapped at the connection. I instructed Badger Underground LLC. to repair with a temporary construction type connection. They complied by inserting a 6 in. PVC pipe into the broken bell section of the wye and placed an *Anti-Hydro* type concrete around the bell connection. The temporary repair was chosen since this section of sanitary main is scheduled for a relay with a 2011 Capital Improvement Project. Badger Underground LLC. placed temporary cold mix asphalt as a pavement restoration.

Thursday 12-16-10

Pavement was totally reopened for public use.

CONCLUSIONS/RECOMMENDATIONS

Based on my observations in the field it is my opinion that a failure of the wye connection to the sanitary main existed at 2133 S. 85 St. that caused a back-up and non-draining condition for the resident at 2133 S. 85 St.

I am recommending a payment of \$5,109.00, which is the amount of the notice of claim by Badger Underground LLC.

cc (via email): Joseph Burtch
Michael Scherer



NO. 10/167

03-04-11 P03:54 11

BADGER UNDERGROUND LLC.

W148 N7230 WOODLAND DR. MENOMONEE FALLS WI. 53051

Phone: (262)502-1220 Fax: (262)252-4148

THE SUBTERRANEAN PLUMBERS

CONTACT PERSON:

PHONE NO:

DATE:

Brian Block

1-25-11

NAME:

City of West Allis

ADDRESS:

CITY, STATE, ZIP:

QUANTITY	DESCRIPTION	PRICE	AMOUNT
----------	-------------	-------	--------

<u>Job 2133</u>	<u>5 85^{ST.}</u>		
	<u>Repair sanitary sewer</u>		
<u>12-13-10</u>	<u>9 hrs at \$465 per hr.</u>		<u>\$4185⁰²</u>
<u>8'-6" sch 35 pipe</u>			<u>40.</u>
<u>2- 6" Fernco</u>			<u>84.</u>
<u>10lb - concrete</u>			<u>42.</u>
<u>4 yd - gravel</u>			<u>112</u>
<u>7 yd - Slurry</u>			<u>448</u>
<u>2 ton - Cold patch</u>			<u>198</u>

Balance due \$5109.⁰²

Badger