

REQUEST FOR BOARD ACTION

**HENDERSON COUNTY
BOARD OF COMMISSIONERS**

MEETING DATE: Monday, May 1, 2006

SUBJECT: Water & Sewer Line Extension – Sugarloaf Road
Elementary

ATTACHMENTS: Yes

SUMMARY OF REQUEST:

The City of Hendersonville has requested that the County comment on the proposed water and sewer line extensions listed above. Staff has reviewed the water and sewer line extension and has provided Staff comments and the project summaries for each as attached.

RECOMMENDATION / BOARD ACTION REQUESTED:

Recommend that the Board take action to support the referenced water and sewer line extensions.

HENDERSON COUNTY REVIEW OF CITY WATER LINE EXTENSIONS

Project Name: Sugarloaf Road Elementary
 Size of Water Line (Main & Distribution Pipe Size): 1,545 linear feet – 8" DIP CL 350
 County Staff Reviewing Extension: Rocky Hyder, Fire Marshal; Matt Card, Subdivision Administrator; Autumn Radcliff, Planner II

Has the project been reviewed under the **County Subdivision Ordinance**? Yes No N/A
 Date reviewed: _____
 Action: _____
 Conditions: _____
 Comments: _____

Has the project been reviewed under the **County Manufactured Park Ordinance**? Yes No N/A
 Date reviewed: _____
 Action: _____
 Conditions: _____
 Comments: _____

Has the project been reviewed under the **County Zoning Ordinance (i.e. Special-Use or Conditional-Use Permit)**? Yes No N/A
 Date reviewed: _____
 Action: _____
 Conditions: _____
 Comments: _____

Is the project subject to **any other County Land Use Ordinance**? Yes No N/A
 If yes, explain: _____

Does the project conform with the **2020 Henderson County Comprehensive Plan (CCP)**? Yes No N/A

Does the project have **adequate hydrant location and spacing**? Pursuant to NC Fire Prevention Code, Section 508.5.1 as long as the building is fully covered by a sprinkler system fire hydrants may be located up to 600 feet from the furthest part of the building. Yes No N/A

Description of **hydrant type and thread**: No hydrant detail – should be Mueller Centurion – National Standard Thread

Does the estimated flow rate (gpm) meet **fire protection standards**? No flow information provided Yes No N/A

BOARD OF COMMISSIONERS APPROVAL

- Approved
- Not Approved
- Conditional Approval (See Comments)

Date of Board Review: _____
 Comments: _____

HENDERSON COUNTY REVIEW OF CITY SEWER LINE EXTENSIONS

Project Name: Sugarloaf Elementary
 Size of Sewer Line: 1,135 LF of 4-inch Force Main
 County Staff Reviewing Extension: Gary Tweed, County Engineer; Matt Card, Subdivision Administrator, Autumn Radcliff, Planner II

Has the project been reviewed under the **County Subdivision Ordinance**? Yes No N/A
 Date reviewed: _____
 Action: _____
 Conditions: _____
 Comments: _____

Has the project been reviewed under the **County Manufactured Park Ordinance**? Yes No N/A
 Date reviewed: _____
 Action: _____
 Conditions: _____
 Comments: _____

Has the project been reviewed under the **County Zoning Ordinance (i.e. Special-Use or Conditional-Use Permit)**? Yes No N/A
 Date reviewed: _____
 Action: _____
 Conditions: _____
 Comments: _____

Is the project subject to **any other County Land Use Ordinance**? Yes No N/A
 If yes, explain: Water Supply Watershed Protection Ordinance

Does the project conform to the **2020 Henderson County Comprehensive Plan (CCP)**? Yes No N/A

Other Comments:
 Sewer will be provided by on site pump station and force main connecting to a City sewer force main along Sugarloaf Road. There is no objection to this project. Gary Tweed, County Engineer

BOARD OF COMMISSIONERS APPROVAL

Approved Date of Board Review: _____
 Not Approved Comments: _____
 Conditional Approval (See Comments)

**City of Hendersonville - Project Summary
Water Line Extension
Sugarloaf Elementary**

Date: April 3, 2006

This is a project to extend existing water lines to provide water service to a proposed 84,800 sq ft Elementary School. This project is located along Sugarloaf Road.

This project is under the reviewing jurisdiction of: **Henderson County.**

This project requires approximately **1,545** linear feet of water line sized as following:

Description:	Approximate Length
8" DIP CL 350	1,545 lf

Fire Protection will be provided by the installation of two (2) fire hydrants.

The entire cost of the proposed water line extension is to be paid for by Henderson County Schools.

Water pressure and flow in this area is as follows:

Static Pressure:	60 PSI
Residual:	38 PSI
Flow:	700 GPM (10/10/2005 Hydrant # 03-0040)

Based on the above information, the Water & Sewer department is capable of supporting the additional connections and recommends approval of the project contingent upon approval of the final plans and specifications from the Water & Sewer Department.

A motion is needed to approve and accept this project. Suggest wording is as follows:

I move to accept this water line extension project and to authorize the City manager to execute the water line extension agreement on behalf of the City.

Water & Sewer Department:	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	Date: 3-31-06
Hendersonville City Council:	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	Date: _____

The undersigned represents this utility extension line request has been evaluated in light of the adopted land use plan for the municipality or Henderson County. In the absence of such a plan for the general area to be served, this extension has been evaluated in terms of its future impact on existing land uses.	
Reviewing Jurisdiction: Henderson County	
Signing Official:	_____
Date of Review:	_____
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	
Narrative Comments Provided: <input type="checkbox"/> Yes <input type="checkbox"/> No	

City of Hendersonville - Project Summary
Sewer Line Extension
Sugarloaf Elementary

Date: April 3, 2006

This is a project to extend existing sewer lines to provide service to a proposed 84,800 sq ft Elementary School. This project is located along Sugarloaf Road.

This project is under the reviewing jurisdiction of: **Henderson County**

This project requires approximately **1,135** linear feet of sewer line sized as following:

Description:	Approximate Length
4" force main	1,135 lf

Pump station required: yes No

The amount of wastewater generated by this project will be approximately **7,800** gallons per day.

The entire cost of the proposed sewer line extension is to be paid for by Henderson County Schools.

Based on the above information, the Water & Sewer department is capable of supporting the additional connections and recommends approval of the project contingent upon approval of the final plans and specifications from the Water & Sewer Department.

A motion is needed to approve and accept this project. Suggest wording is as follows:

I move to accept this sewer line extension project and to authorize the City manager to execute the sewer line extension agreement on behalf of the City.

Water & Sewer Department: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	Date: 3-31-05
Hendersonville City Council: <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	Date: _____

The undersigned represents this utility extension line request has been evaluated in light of the adopted land use plan for the municipality or Henderson County. In the absence of such a plan for the general area to be served, this extension has been evaluated in terms of its future impact on existing land uses.	
Reviewing Jurisdiction: Henderson County	
Signing Official: _____	
Date of Review: _____	
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	
Narrative Comments Provided: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Water Line Extension – Sugar Loaf Road Elementary School

Hendersonville, NC

PROJECT SUMMARY

The proposed project is an extension of the CITY OF HENDERSONVILLE WATER AND SEWER DEPARTMENT water system. The proposed water system will connect to the existing system in the shoulder of Sugar Loaf Road in front of the subject property east of the City of Hendersonville.

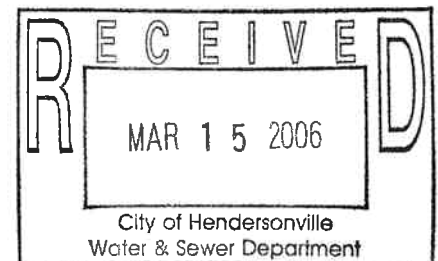
The project will include approximately 1,345 lf of 8" waterline and associated appurtenances to serve one elementary school with domestic water service and fire protection sprinkler system.

The proposed system has sufficient capacity and pressure to provide domestic service to the proposed building. Fire demands cannot be met with current system demands, but we understand that the City is currently planning for system expansion in the area that will improve fire flows throughout the vicinity.

The project is proposed for construction in April of 2006.

OWNER INFORMATION

Owner: Henderson County Schools
Address: 414 Fourth Avenue West
Hendersonville, NC 28739
Contact: Jack Robertson at 697-4992
PIN: 00-9589-55-2513-55
DB 1231 PG 224
Zone County



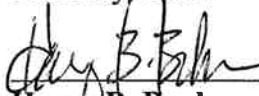
ADDENDUM TO ENGINEER'S REPORT
Water Line Extension – Sugar Loaf Road Elementary School
Henderson County Schools
Hendersonville, NC

The proposed project is an extension of the CITY OF HENDERSONVILLE WATER AND SEWER DEPARTMENT water system. The project will include **approximately 1,545 lf of 8” DIP, CL350 waterline, 1 fire hydrant, 2 Reduced Pressure Backflow Preventers and associated appurtenances to serve a 84,800 S.F. Elementary School with water service and fire protection sprinkler system (by others).** The project is proposed for construction in **April of 2006.** Additional information as described in 15A NCAC 18C .0307 is as follows:

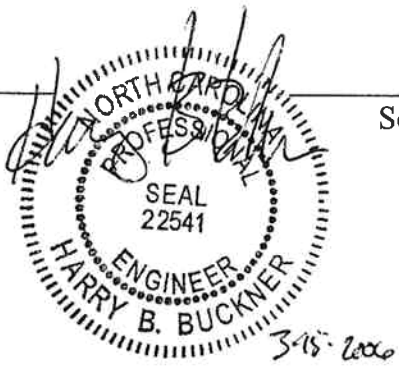
1. The proposed extension will connect to an existing 8” water main of the CITY OF HENDERSONVILLE WATER AND SEWER DEPARTMENT located in State Route 1734 (Sugar Loaf Road) east of Hendersonville.
2. The proposed water line extension will serve the proposed building in one phase.
3. The applicant is: **City of Hendersonville Water & Sewer Department**
Contact: Lee Smith (Director)
4. The proposed service area addition is domestic only and serves one school building.
5. No future expansion is anticipated.
6. Connecting to the CITY OF HENDERSONVILLE WATER AND SEWER DEPARTMENT water system was the most favorable option for the addition.
7. N/A
8. The water system is to serve one 84,800 SF school facility. The anticipated average water usage is 7,800 G.P.D. See item 13 for the current water system usage and production.
9. Water is to be supplied to this extension by the CITY OF HENDERSONVILLE WATER AND SEWER DEPARTMENT.
10. N/A
11. N/A
12. The proposed water line extension is to be constructed of Ductile Iron, CL 350 with a minimum design service life of fifty years.
13. The maximum daily treated water supply for the CITY OF HENDERSONVILLE WATER AND SEWER DEPARTMENT is 12 M.G.D. The maximum daily demand is 10.4 M.G.D.
14. N/A

The above information is believed to be accurate and complete as pertains to the proposed water distribution system extension project known as “SUGAR LOAF

ROAD ELEMENTARY SCHOOL" prepared by McGill Associates P.A.,
February, 2006.


Harry B. Buckner, P.E.

L:/projects/05184/misc/engereport.doc



Seal