

REQUEST FOR BOARD ACTION

Henderson County Board of Commissioners

Meeting Date: April 16, 2008

Subject: Water Line Extension –Edneyville Post Office

Attachments: Vicinity Map
Engineer’s Report
Project Summary
Project Map
County Review Sheet

Summary of Request:

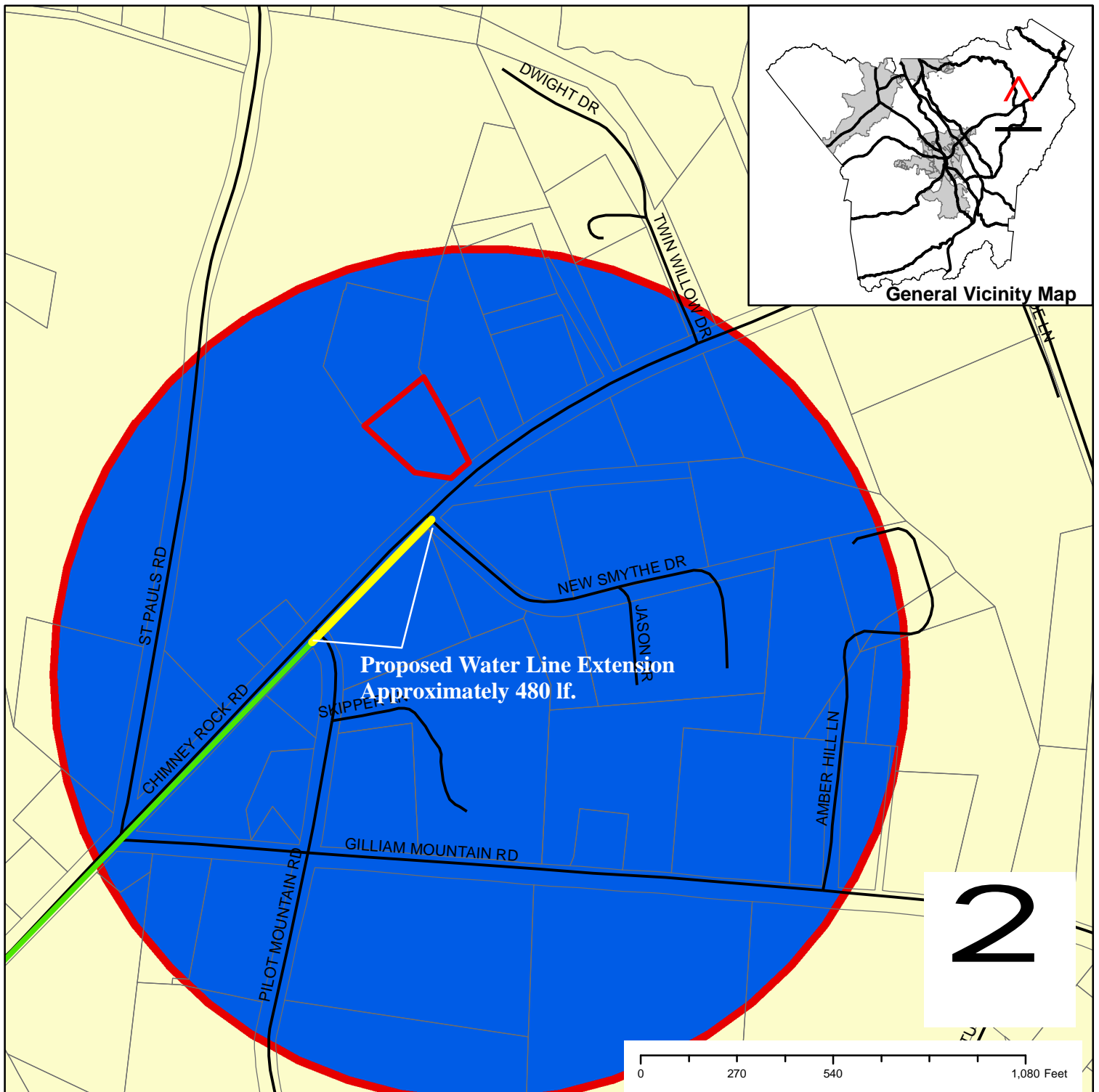
The City of Hendersonville has requested that the County comment on the proposed water line extension for the Edneyville Post Office. The proposed water line is 480 linear feet with one (1) fire hydrant. The project’s location in the commercial service center within the urban/rural transition area is consistent with the Henderson County 2020 Comprehensive Plan. A City of Hendersonville Project Summary Sheet, with backup documents and County Review Sheet with Staff comments, are attached for Board review and action.

Board Action Request:

Action by the Board of Commissioners is needed to either grant or deny this request. If the Board decides to approve the requested extension the following motion has been provided.

Suggested Motion:




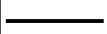


I move that the Board approve the Edneyville Post Office water line extension and direct Staff to convey the County’s comments to the City of Hendersonville.



Edneyville Post Office

OWNER/DEVELOPER: Edneyville Post Office
 ZONING: R-1
 SEWER SYSTEM: Private Sewer

Legend

-  Subject Area
-  Proposed Water Line Extension
-  Existing Hendersonville Water Line
-  Streets
-  Community Service Centers
-  Rural/Urban Transition Area

Laughter, Austin and Associates, P.A.
Engineering • Planning • Land Surveying
131 FOURTH AVENUE EAST
HENDERSONVILLE, NORTH CAROLINA 28792

Jon H. Laughter, PLS, PE
Thomas P. Welbourn, PLS, EIT
Fred S. Price, PLS

Donald J. Austin, PLS
James D. Chambless, Sr., EIT

LETTER OF TRANSMITTAL

March 3, 2008

James L. Patrick, P.E., Director
City of Hendersonville Engineering Department
City of Hendersonville
P.O. Box 1670
Hendersonville, NC 28793

Project: Edneyville Post Office
Water Main Extension
City of Hendersonville Water & Sewer Dept.
LAA Job No. 08-049

<input type="checkbox"/>	Application For Plan Review	<input checked="" type="checkbox"/>	Preliminary	<input checked="" type="checkbox"/>	New Submittal	<input type="checkbox"/>	Revision
<input type="checkbox"/>	Final Submittal	<input type="checkbox"/>	Information You Requested	<input type="checkbox"/>	Additional Info. Requested		
<input type="checkbox"/>	For Approval	<input type="checkbox"/>	As-Built Submittal	<input type="checkbox"/>	Completion Certification		
<input type="checkbox"/>	Request To Start Construction	<input type="checkbox"/>	For Your Files	<input type="checkbox"/>	Other		

Dear Mr. Patrick,

Please find the following items attached for purposes of preliminary plan review, on the aforementioned project:

- 1.) Four (4) copies of plan sheets.
- 2.) Four (4) copies of Project Narrative.
- 3.) Four (4) copies of Technical Specifications.
- 4.) Four (4) copies of Engineer's Report

Phone: 828-692-9089 • Fax: 828-693-8822 • Watts: 800-858-LAND
e-mail: laapa@bellsouth.net

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Fax (828) 693-8822
WATS 1-800-858-LAND

PROJECT NARRATIVE

Project : **City of Hendersonville**
WATER LINE EXTENSION
to serve
Edneyville Post Office
located on the north side of US 64 East and approximately 90
Feet east of SR 1722.

Project Number: **LAA08-049**

Owner/Developer: **City of Hendersonville**

Address: P.O. Box 1760
Hendersonville, North Carolina 28793

Telephone: (828) 697-3063

5.20.03

Description:

This proposed Water Main Extension is being planned to serve an existing Post Office facility in Henderson County located on the north side of US 64 East approximately 90 feet east of SR 1722. This water main extension is being done by private contractors for the City of Hendersonville's Water and Sewer Department.

This proposed water extension will require tapping into the existing 12" water main on the north side of US 64 East and running east along the north side of US 64 East for approximately 450 feet.

This extension shall be installed according to the proposed plans.

existing septic.

Vance Heats, owner.

PROJECT NARRATIVE, continued

City of Hendersonville
Water and Sewer Department
Edneyville Post Office
Water Main Extension

Page-2-

March 3, 2008

LAA Job No. 08-049

In General;

The installation of this Water Main Extension is expected to begin shortly after all approvals and permits have been issued and “authorization to start” has been given by the City’s Water and Sewer Department. The utility contractor for this project will be determined at a later date and the Town Water and Sewer Department will be notified.

This is a water main extension for the City of Hendersonville Water and Sewer Department. This water main extension shall be installed in accordance with all local and state regulations by a N.C. licensed utility contractor to be selected by the Owner/Developer and approved by the Water and Sewer Department.

Laughter, Austin and Associates, P.A. (Consulting Engineers) shall provide installation monitoring services during the construction and installation process and provide completion certification when the job is completed as required by the City of Hendersonville Water and Sewer Department.

ENGINEER'S REPORT
FOR
WATER SYSTEM IMPROVEMENTS

To Serve

EDNEYVILLE POST OFFICE

HENDERSON COUNTY

NORTH CAROLINA

Project Number 08-049

Prepared By:

LAUGHTER, AUSTIN & ASSOCIATES, P.A.
131 Fourth Avenue East
Hendersonville, North Carolina 28792

March 3, 2008

ENGINEER'S REPORT
EDNEYVILLE POST OFFICE
WATER MAIN EXTENSION

1. **NAME AND ADDRESS OF APPLICANT**

City of Hendersonville
P.O. Box 1760
Hendersonville, NC 28793

2. **PROJECT DESCRIPTION & INTRODUCTION**

This project is located on the north side of US 64 East and approximately 90 feet east of SR 1722 in Henderson County. This water main extension is being done by contractors for the City of Hendersonville's Water and Sewer Department.

This proposed water extension will require tapping into the existing 12" water main on the north side of US 64 East and running east along the north side of US 64 East for approximately 4500 feet. This proposed line will have installed one fire hydrant with appropriate tee's, valves and fittings.

3. **DESCRIPTION OF FUTURE SERVICE AREAS**

This extension will serve the existing Edneyville Post Office with 3 employees. Existing lines are adequate for serving surrounding areas.

4. **PRESENT AND ANTICIPATED WATER DEMANDS**

Present water demands are to serve the 3 employees in the existing Post Office. Thus the design demand is approximately 3 employees @ 20 GPD/connection. Total demand is approximately 60 GPD.

5. **CHARACTER OF THE SOURCE SUPPLY**

The water supply for this project is from the City of Hendersonville Water Treatment Plant.

6. **AGGREEMENTS TO PURCHASE WATER**

Not applicable

7. **USEFUL LIFE OF FACILITIES**

The useful life of the water lines for this project is expected to be 50 years minimum.

8. **MAXIMUM DAILY TREATED WATER SUPPLY AND MAXIMUM DAILY DEMAND**

The maximum daily treated water supply for the City of Hendersonville water plant is 12MGD. The average demand is 7.2 MGD, with a daily peak (for the year) of 9.5 MGD

9. **IDENTIFICATION & DESCRIPTION OF THE SERVICE AREA**

The initial service area for this project is approximately 1 Post Office with 3 employees.

10. **CONSIDERATION OF ALTERNATIVES TO CONSTRUCTING A NEW WATER SYSTEM.**

Not applicable

11. **POPULATION RECORDS AND TRENDS**

Unknown

12. **PRESENT AND FUTURE YIELD FROM THE SOURCES OF SUPPLY**

The City of Hendersonville Water Plant currently draws water from the Mills River. The present and future yield of the source of supply is expected to be adequate for the City of Hendersonville's present and future needs.

13. **PROPOSED WATER TREATMENT PROCESSES**

Not Applicable

14. **DESIGN BASIS**

The design basis for this project is to provide adequate flow @ 30 psi minimum at the street.

15. **PRIORITIZED LIST OF INFRASTRUCTURE IMPROVEMENTS**

Not Applicable

PROJECT SUMMARY
WATER UTILITY EXTENSION
Edneyville Post Office

March 24, 2008

To: Honorable Mayor and Members of City of Council

From: Water & Sewer Department Staff

RE: STAFF RECOMMENDATION FOR ACCEPTANCE OF
WATER UTILITY EXTENSION AGREEMENT (WUEA)

This is a project to extend lines to provide water service to **an existing Post Office facility**. This project is located **on the north side of US 64 East approximately 90 feet east of SR 1722**. This project is under the reviewing jurisdiction of **Henderson County** and is located within the **USA – Urban Services Area** planning area. This project **will not** involve an IBT (Interbasin Transfer) from the French Broad River Basin. The entire cost of the proposed water line extension is to be paid for by **Edneyville Post Office**.

This project requires approximately **480** linear feet of water line sized as following:

Approximate Length:	Description:
480 lf	12" DIP CL 350

Fire Protection will be provided by the installation of **1**-fire hydrants.

The Reviewing Jurisdiction, listed below, has completed their review of this utility extension request in regard to their adopted land use plan or in terms of its future impact on existing land uses for that local government.

Reviewing Jurisdiction: **Henderson County (sent 3-24-08)**

Approved Disapproved (See attached letter provided to the City by the Reviewing Jurisdiction)

Narrative Comments Provided: Yes No

Signing of Official: _____
Printed Name: _____

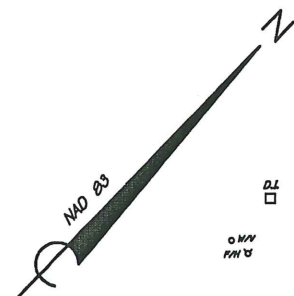
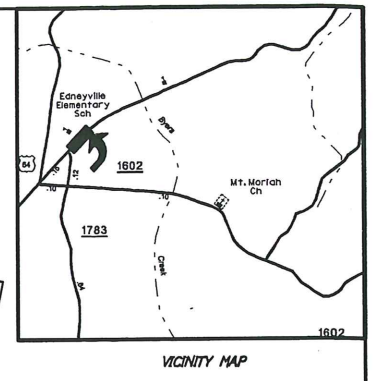
Date: _____

Based on the above information, the Water & Sewer Department has the capacity to support this additional infrastructure and associated connections and hereby recommends approval of said project contingent upon final approval of construction plans and specifications by the Water & Sewer Department.

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

"I move to accept this Water Utility Extension Project and to authorize the City Manager to execute the associated Water Utility Extension Agreement on behalf of the City."

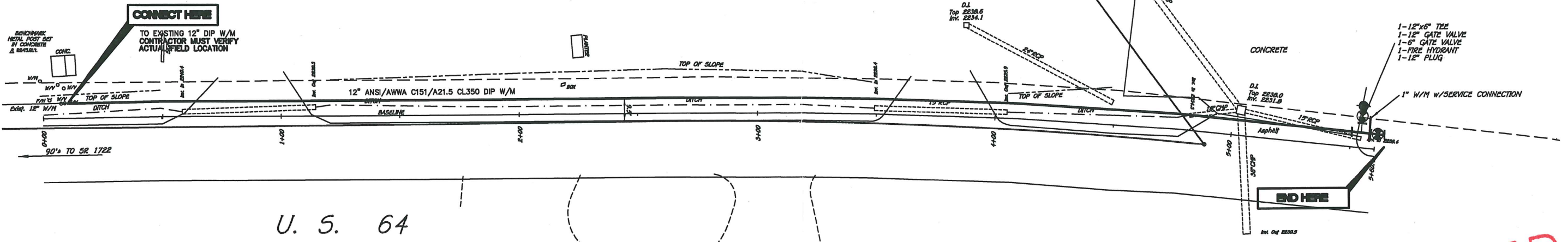
Water and Sewer Department:	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	Date: 3-12-08
Henderson Co. Commissioners:	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	Date: _____
Hendersonville City Council:	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	Date: _____



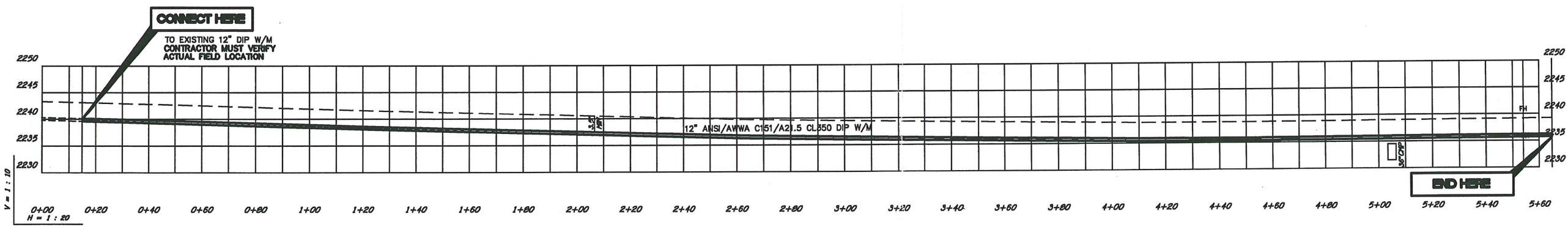
WESTERN NORTH CAROLINA
JUSTICE ACADEMY

State of North Carolina
D.B. 897, Pg. 145

Linda N. Pejerson
D.B. 875, Pg. 507



RECEIVED
MAR 20 2008
City of Hendersonville
Water & Sewer Department



NOTE
LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY.
EXACT LOCATIONS ARE TO BE VERIFIED IN THE FIELD BY
THE CONTRACTOR.

NOTICE :
NOTIFICATION REQUIREMENT:
OWNER OR CONTRACTOR MUST NOTIFY THE CITY
OF HENDERSONVILLE WATER & SEWER DEPARTMENT
(828-697-3063) SEVEN (7) DAYS PRIOR TO
BEGINNING ANY UTILITY CONSTRUCTION ACTIVITY.

NOTE :
RELATIONSHIP OF WATER & SEWER/STORM SYSTEMS
Contractor is Required To Comply With The North Carolina
Administration Code, Rules Governing Public Water Systems, With
18A NCAC 18C. 0808.
SEE Section No. 1200.10 in The Technical Specifications.

BEFORE YOU DIG !!
CALL: **U.L.O.C.O.**
UNDERGROUND UTILITY LOCATOR SERVICE
TOLL FREE: 1-800-622-4949
48 HOUR NOTICE REQUIRED

CITY OF HENDERSONVILLE
"The City of Four Seasons"
145 FIFTH AVENUE EAST
HENDERSONVILLE, NORTH CAROLINA 28739
A PROPOSED
WATERLINE EXTENSION
TO SERVE THE
EDNEYVILLE POST OFFICE



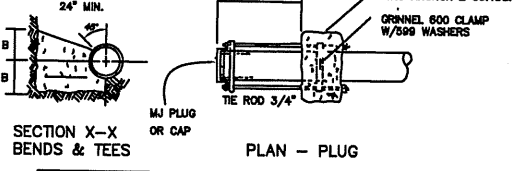
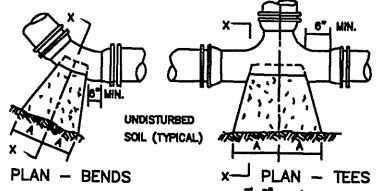
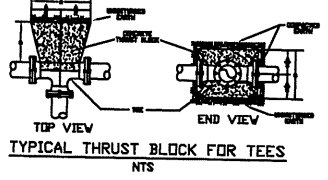
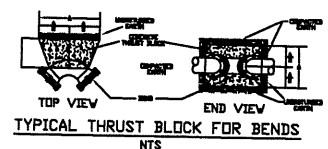
NO.	DATE	BY	APPRV.	DESCRIPTION
3-17-08	FSP	JHL		REV FH & METER LOCATIONS
3-03-08	FSP	JHL		ORIGINAL PREPARED

WATERLINE PLAN AND PROFILE			
EDNEYVILLE TWP.	HENDERSON COUNTY, N.C.		
LAUGHTER, AUSTIN AND ASSOCIATES, P.A. 131 FOURTH AVENUE EAST HENDERSONVILLE, NORTH CAROLINA 28792 (828) 692-9089			
CREW CHIEF	DJA	CHECKED BY	DATE
DRAWN BY	FSP	SCALE	1" = 20 FT.
DATE	3/03/08	SHEET NO.	1 OF 2
DESIGN FILE	06275	DRAWING FILE	06049engr
FLOOD MAP PANEL NUMBER	XXXXXX XXXX	TAX PARCEL NUMBER	0501-45-6401

REVISIONS **JOB NO. 08-049**

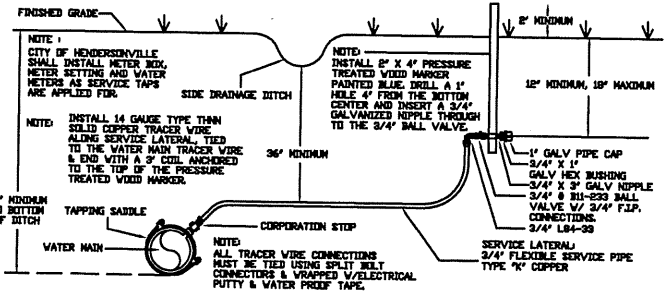
NOTE: FOR PROTECTION OF THE JOINTS, INSTALL A LAYER OF 4 MIL. VULCANIZED BITUMEN BETWEEN THE CONCRETE AND THE FITTING.

PIPE SIZE	1 1/2" BEND	2" BEND	3" BEND	4" BEND	6" BEND	8" BEND	12" BEND	18" BEND	24" BEND	36" BEND	48" BEND	60" BEND	TEE	PLUG
4"	24"	12"	24"	12"	24"	12"	24"	12"	24"	12"	24"	12"	24"	12"
6"	36"	18"	36"	18"	36"	18"	36"	18"	36"	18"	36"	18"	36"	18"
8"	48"	24"	48"	24"	48"	24"	48"	24"	48"	24"	48"	24"	48"	24"
12"	72"	36"	72"	36"	72"	36"	72"	36"	72"	36"	72"	36"	72"	36"
18"	108"	54"	108"	54"	108"	54"	108"	54"	108"	54"	108"	54"	108"	54"

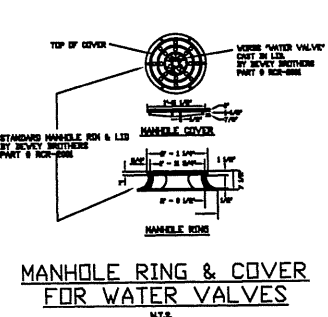


PIPE SIZE	60° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		FIRE HYDRANT	
	A	B	A	B	A	B	A	B	A	B	A	B
4"	24"	12"	24"	12"	24"	12"	24"	12"	24"	12"	24"	12"
6"	36"	18"	36"	18"	36"	18"	36"	18"	36"	18"	36"	18"
8"	48"	24"	48"	24"	48"	24"	48"	24"	48"	24"	48"	24"
12"	72"	36"	72"	36"	72"	36"	72"	36"	72"	36"	72"	36"
18"	108"	54"	108"	54"	108"	54"	108"	54"	108"	54"	108"	54"

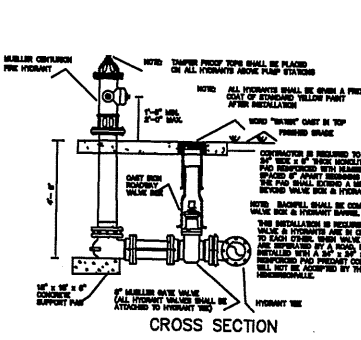
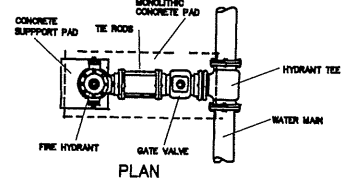
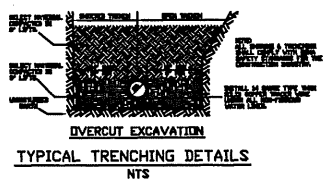
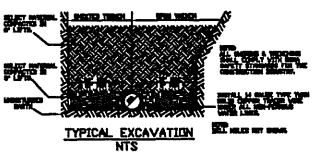
4 THRUST BLOCK DETAILS



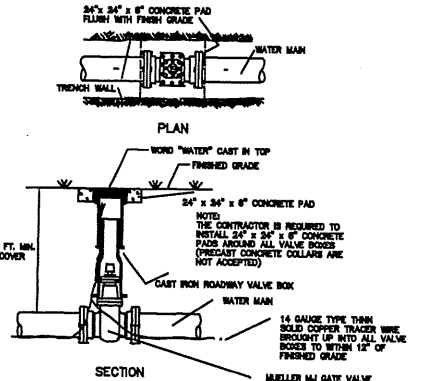
TYPICAL SERVICE LATERAL INSTALLATION
N.T.S.



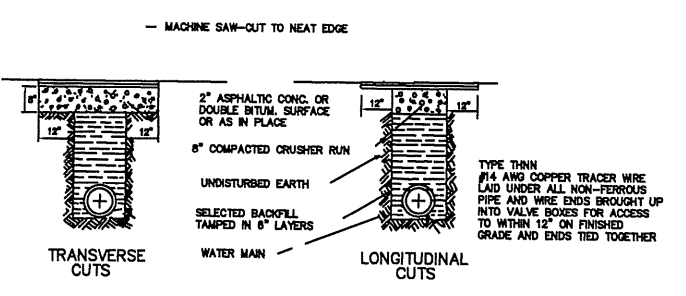
MANHOLE RING & COVER FOR WATER VALVES
N.T.S.



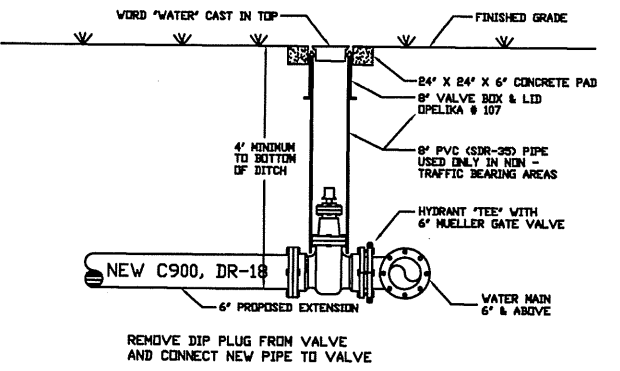
TYPICAL RODED FIRE HYDRANT INSTALLATION DETAIL
NOT TO SCALE



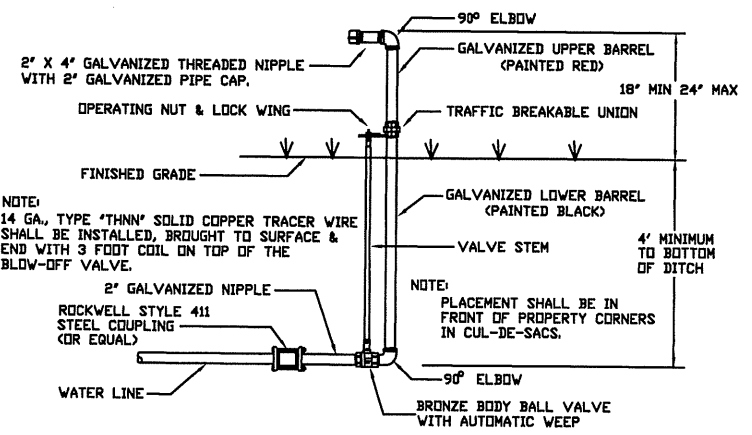
TYPICAL IN-GROUND INSTALLATION OF ALL 2" & LARGER GATE VALVES
NOT TO SCALE



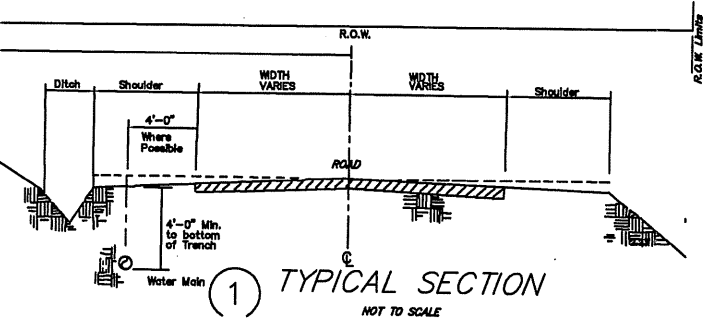
DETAIL FOR CUTTING & REPLACING PAVEMENT
NOT TO SCALE



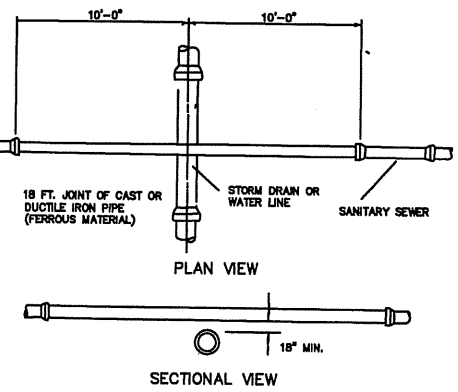
TYPICAL CONNECTION TO EXISTING PLUGGED GATE VALVE
N.T.S.



TYPICAL 2" POST FLUSH BLOW-OFF DETAIL
N.T.S.



1 TYPICAL SECTION
NOT TO SCALE



6 PIPE CROSSING DETAIL
NOT TO SCALE

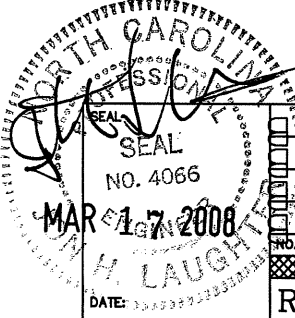
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NOTE:
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Contractor is Required to Comply With The North Carolina Administrative Code, Rules Governing Public Water Systems, Title 15A NCAC 18C.0908.
SEE Section No. 1200.10 In The Technical Specifications.

BEFORE YOU DIG !!
CALL: **U/LOCO**
UNDERGROUND UTILITY LOCATOR SERVICE
TOLL FREE: 1-800-632-4949
48 HOUR NOTICE REQUIRED

CITY OF HENDERSONVILLE
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A PROPOSED WATERLINE EXTENSION TO SERVE THE EDNEYVILLE POST OFFICE



NO.	DATE	BY	APPRV.	DESCRIPTION
3-03-08	FSP	JHL		ORIGINAL PREPARED

WATERLINE DETAILS				
EDNEYVILLE TWP.	HENDERSON COUNTY, N.C.			
LAUGHTER, AUSTIN AND ASSOCIATES, P.A. 131 FOURTH AVENUE EAST HENDERSONVILLE, NORTH CAROLINA 28792 (828) 692-9089				
CREW CHIEF	DJA	CHECKED BY	DATE	SHEET NO.
DRAWN BY	FSP	SCALE	1" = 20 FT.	3/03/08 2 OF 2
COORD. FILE	06275	DRAWING FILE	08048eng	
FIELD MAP PANEL NUMBER	XXXXXXXXXXXX	TAX PANEL NUMBER	0801-45-8401	

REVISIONS JOB NO. 08-049

HENDERSON COUNTY REVIEW OF CITY WATER LINE EXTENSIONS

Project Name: Edneyville Post Office Water Line Extension
 Size of Water Line (Main & Distribution Pipe Size): 480 If 12" DIP CL 350, 1 fire hydrant
 County Staff Reviewing Extension: Rocky Hyder, Fire Marshal; Alexis Baker, Planner; Autumn Radcliff, Senior Planner

Has the project been reviewed under the **County Subdivision Regulations of the Land Development Code?** Yes No N/A

Date reviewed: _____
 Action: _____
 Conditions: _____
 Comments: _____

Has the project been reviewed under the **County Manufactured Park Regulations of the Land Development Code?** Yes No N/A

Date reviewed: _____
 Action: _____
 Conditions: _____
 Comments: _____

Has the project been reviewed under the **County Zoning Regulations (i.e. Special-Use or Conditional-Use Permit) of the Land Development Code?** Yes No N/A

Date reviewed: _____
 Action: _____
 Conditions: _____
 Comments: _____

Is the project subject to **any other County Land Use Regulations?** Yes No N/A

If yes, explain: _____

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

Project lies in the Community Service Center within the Rural/Urban Transition Area

Does the project have **adequate hydrant location and spacing?** Yes No N/A

Description of **hydrant type and thread:** Mueller Centurion – National Standard Thread

Does the estimated flow rate (gpm) meet **fire protection standards?** Meets standard for structure spacing of 31 feet or more. Yes No N/A

BOARD OF COMMISSIONERS APPROVAL

- | | | |
|--------------------------|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | Approved | Date of Board Review: _____ |
| <input type="checkbox"/> | Not Approved | Comments: _____ |
| <input type="checkbox"/> | Conditional Approval (See Comments) | |