REQUEST FOR BOARD ACTION

Henderson County Board of Commissioners

Meeting Date: June 1, 2009

Subject: Water Line Extension – Etowah Town Square

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 Etowah Town Square. The proposed water line is 1285 linear feet. The project is located within the Rural Transition Area and a Commercial Service Center. This 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 Etowah Town Square water line extension and direct Staff to convey the County's comments to the City of Hendersonville.

ETOWAH TOWN PLACE WATER MAIN EXTENSION

ENGINEER'S REPORT



APPLICANT NAME ADDRESS

CITY OF HENDERSONVILLE P.O. Box 1670 Hendersonville, NC 28793

PROJECT DESCRIPTION and NARRATIVE

Etowah Town Place shall be a(n) retail / office space for small businesses. The proposed retail / office facility is located just past the intersection of Highway 64 and Brickyard Road in Etowah, North Carolina.

The proposed plan and permit provides for the development of two retail / office facilities on the proposed property site.

CURRENT PROJECT NARRATIVE

The proposed water main extension which includes 2", 6", and 8" water mains with valves, tees, and other appurtenances will serve only Etowah Town Place.

WATER PROJECT SUMMARY

FIRE HYDRANT ASSEMBLY	2 EA
2" SDR 13.5 WATER MAIN	270 LF
6" DIP WATER MAIN	225 LF
8" DIP WATER MAIN	790 LF

IDENTIFICATION AND DESCRIPTION of the SERVICE AREA

The service area is for the proposed Etowah Town Place retail / office space.

FUTURE SERVICE AREAS

The proposed water main extension shall be "stubbed out" at or near the western property line for additional connection beyond the entrance for future use.

PRESENT AND ANTICIPATED WATER DEMAND

The proposed water demand for the proposed subdivision is approximately 3500 GPD

CHARACTER of the WATER SUPPLY SOURCE

The water supply of the is project shall be the City of Hendersonville Water Treatment Plant.

AGREEMENTS TO PURCHASE WATER

Not applicable.

FACILIITES USEFUL LIFE

For this project, the expected useful life is at least thirty (30) years.

MAXIMUM DAILY TREATED WATER SUPPLY AND MAXIMUM DAILY DEMAND

The maximum daily treated water supply for the City of Hendersonville WTP is 12 MGD. The average demand is approximately 7.2 MGD with a daily peak of 9.5 MGD.

CONSIDERATION of ALTERNATIVES to CONSTRUCTING A NEW WATER SYSTEM.Not Applicable

POPULATION RECORDS AND TRENDS

In 1998 the population of Hendersonville was 9538, and the growth rate from 1990 to 1998 was approximately 31%. According to the Office of State Planning in Raleigh, the population of the City is 12,237.

PRESENT AND FUTURE YIELD FROM the SOURCE of SUPPLY

The Hendersonville WTP draws water from the Mills River. This supply of water source is expected to be adequate for the future needs of the City.

PROPOSED WATER TREATMENT PROCESSES

Not Applicable

DESIGN BASIS

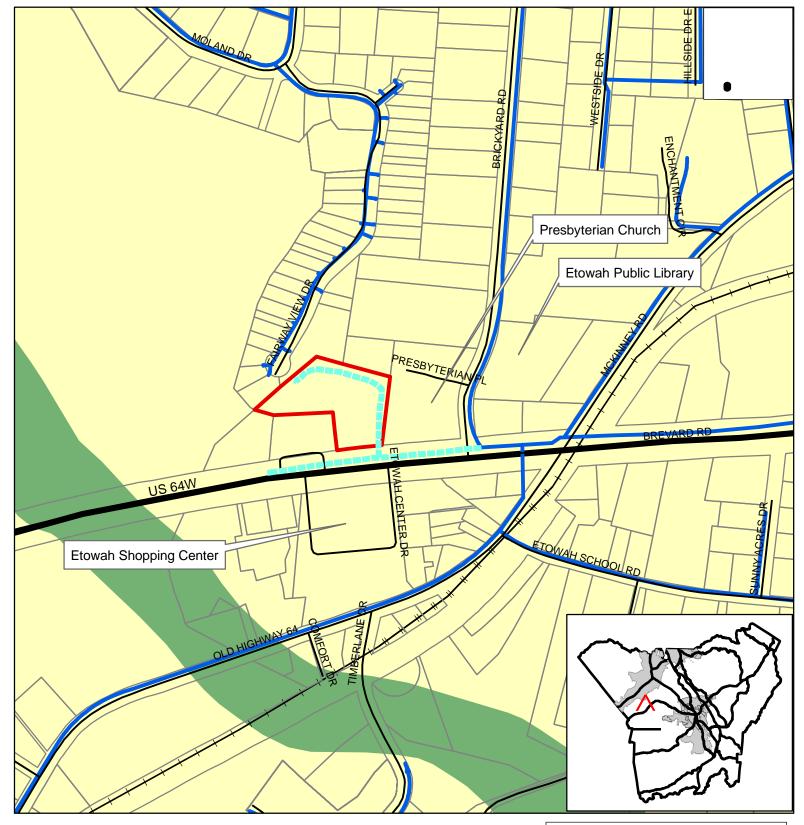
The design basis for this project is to meet or exceed minimum pressure and flow requirements as stated in the Rules Governing Public Water Systems. (RGPWS).

PRIORITIZED LIST of INFRASTRUCTURE IMPROVEMENTS Not applicable.



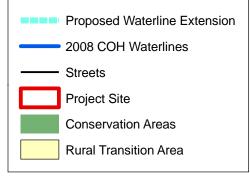
PROJECT SUMMARY WATER UTILITY EXTENSION Etowah Town Square

May 1	1, 2009				
To:	Honorable Mayor a	nd Members of City of Co	uncil		
From:	Water & Sewer Department Staff				
RE:	STAFF RECOMMENDATION FOR ACCEPTANCE OF WATER UTILITY EXTENSION AGREEMENT (WUEA)				
projec jurisdic involve	t is located near the ction of Henderson e an IBT (Interbasin	intersection of Hwy 64 a County and is located wit	and Brickyard Roa hin the USA – Urba Broad River Basin.	office / retail shop development. This d. This project is under the reviewing in Services Area. This project will not The entire cost of the proposed water	
This p	roject requires appro	eximately 1285 linear feet	of water line sized a	as following:	
Approx 790 If 225 If 270 If		Description: 8" DIP 6" DIP 2" PVC SDR 13.5			
Fire P	rotection will be prov	ided by the installation of	one (1)-fire hydrant	(s).	
The R to thei	eviewing Jurisdictior r adopted land use p	n, listed below, has comple plan or in terms of its future	eted their review of the impact on existing	this utility extension request in regard land uses for that local government.	
□App	wing Jurisdiction: He proved ⊡Disapprove tive Comments Provi	ed			
	ng of Official: d Name:		Date _		
infrast	tructure and associat	nation, the Water & Sewer red connections and herek on plans and specification	y recommends app	e capacity to support this additional proval of said project contingent upon ewer Department.	
A mot	ion is needed to app	rove and accept this proje	ct. Suggested word	ing for motion is as follows:	
		ater Utility Extension Pr Extension Agreement o		rize the City Manager to execute the	
Hende	and Sewer Departnerson Co. Commissions	oners: Approved	Disapproved Disapproved Disapproved	Date: 05-01-09 Date: Date:	



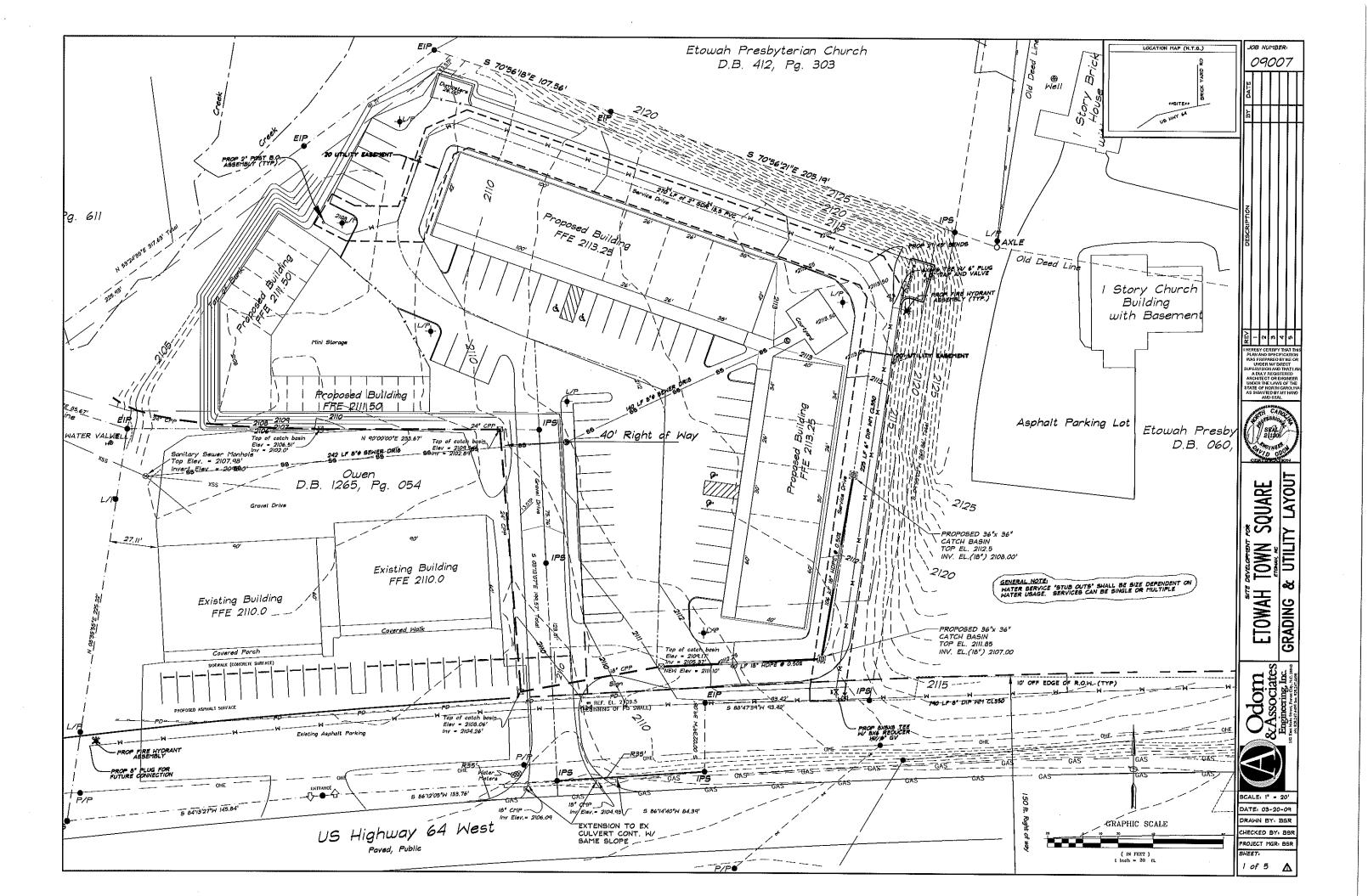
Etowah Town Square

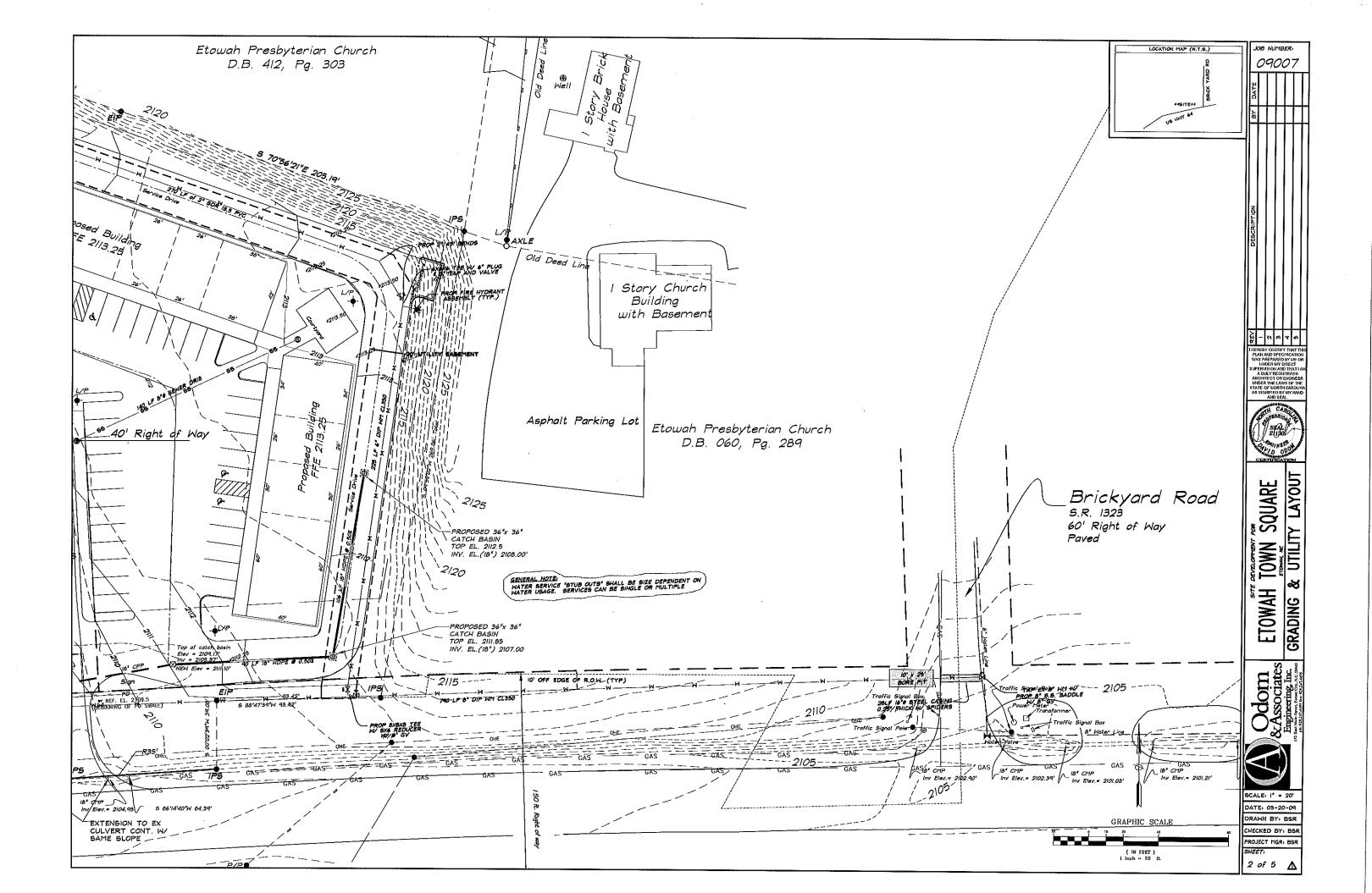
DEVELOPER: TJJO LLC of Horse Shoe, NC

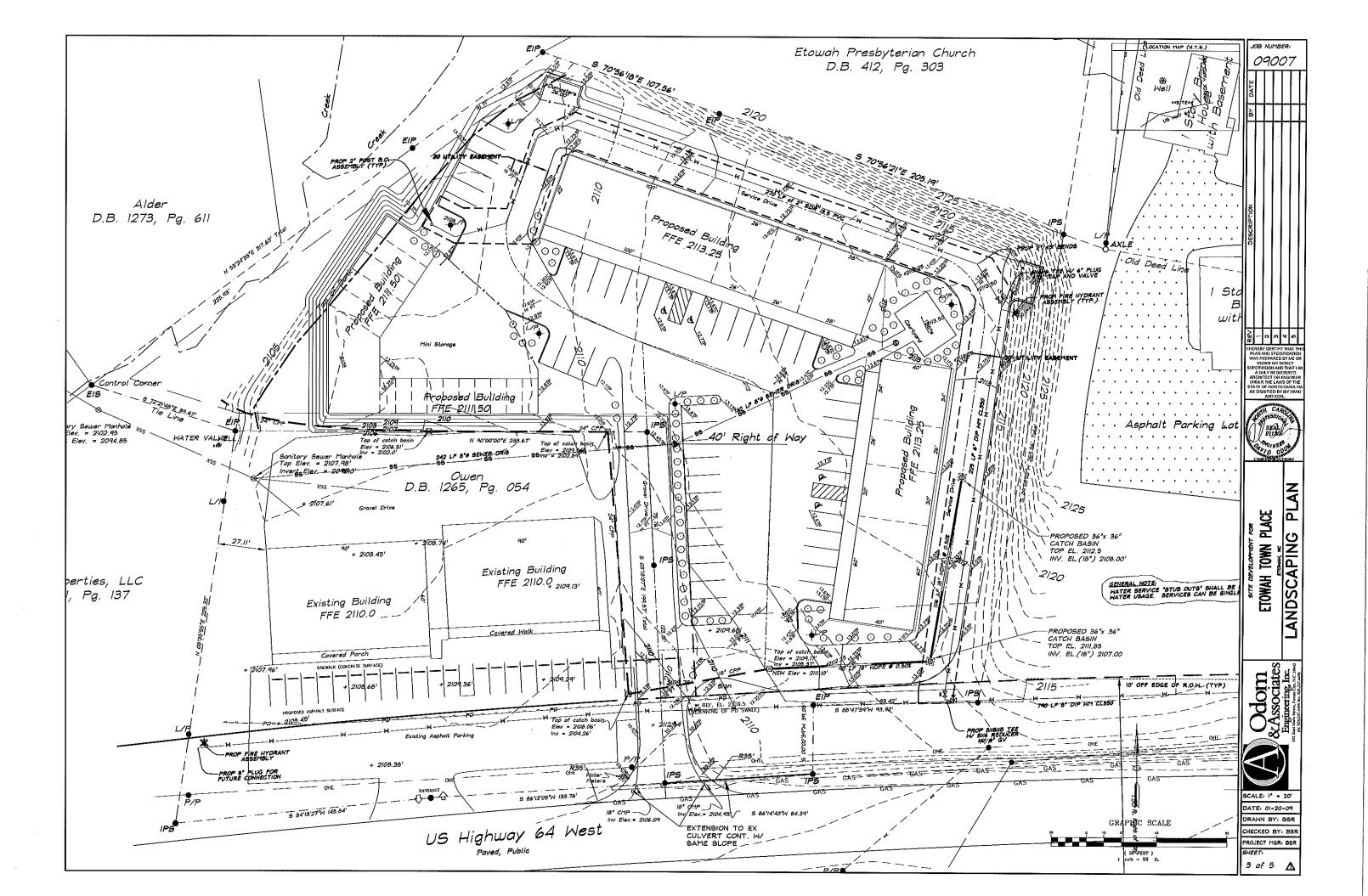


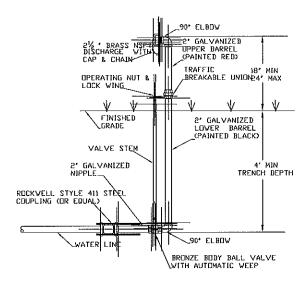
HENDERSON COUNTY REVIEW OF CITY WATER LINE EXTENSIONS

Project Name: Etowah town Square			
Size of Water Line (Main & Distribution Pipe Size): 790 LF of 8" DIP; 225 LF of 6" DIP; 270 LF of 2" PVC SD	R 13.5		
County Staff Reviewing Extension: Rocky Hyder, Fire Marshal; Parker Sloan, Planner; Autumn Radcliff, So	enior Plann	er	
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:	163	NO	IN/A
Does the project conform with the 2020 Henderson County Comprehensive Plan (CCP)?	⊠ Yes	□ No	□ N/A
	103	NO	IN/A
Does the project hous adequate hydrant location and anguing?	\boxtimes		
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?	⊠ Yes	□ No	□ N/A
BOARD OF COMMISSIONERS APPROVAL			
Approved Date of Board Review:			
Not Approved Comments:			
Conditional Approval (See Comments)			



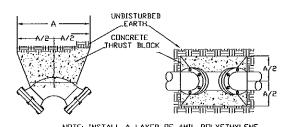






NOTE:
1. PLACEMENT SHALL BE IN FRONT OF PROPERTY CORNERS IN CUL-DE-SACS
2. 14 GA., TYPE 'THNN' SOLID COPPER TRACER WIRE SHALL BE INSTALLED, BROUGHT TO SURFACE & END WITH 3' COIL ON TOP OF THE BLOW-OFF VALVE.

BLOW OFF VALVE

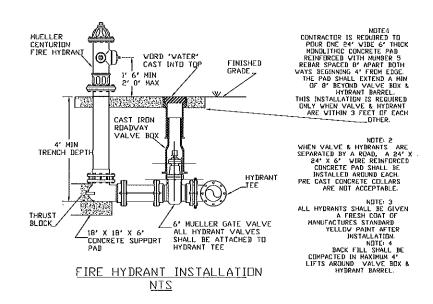


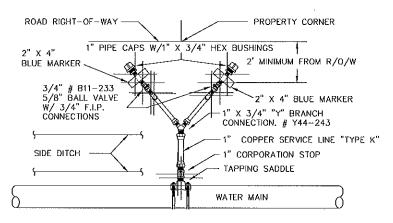
NDTE: INSTALL A LAYER OF 4MIL POLYETHYLENE BETWEEN THE CONCRETE AND THE FITTING.

TYPICAL THRUST BLOCK FOR BENDS

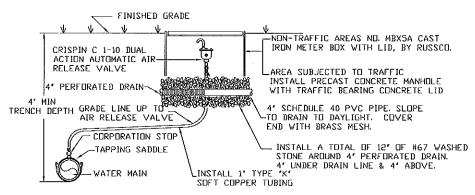
NTS

	VALUES FOR "A"					
SIZE	11 1/4 * BEND	22 1/2 BEND	45. BEND	90° BEND	TEE	
6"	12	12	12	16	16	
8"	12	12	16	55	55	
10"	12	14	20	58	28	
12"	12	18	24	32	35	
14"	14	50	28	38	38	
16"	16	55	35	42	42	
18*	18	26	36	48	48	
20*	. 20	58	40	52	52	
24	24	34	46	64	64	

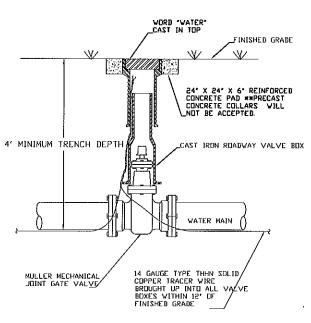




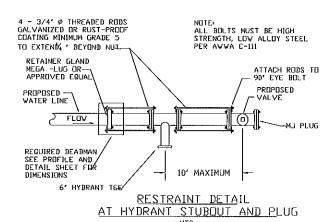
TYPICAL "Y" BRANCH CONNECTION N.T.S.



TYPICAL AIR RELEASE VALVE



IN GROUND GATE VALVE DETAIL NTS



09007 PLACE DETAIL ETOWAH TOWN WATER

JOB NUMBER:

A A SOCiates

Regimenting Inc.

DATE: 03-20-09 DRAWN BY: 85R CHECKED BY: 86R

PROJECT MGR: BSR SHEET:

4 of 5 🛕

