
City of Broken Bow

Monday, September 24, 2012

City Council Regular Session

Acceptance of Woodcrest Infrastructure Improvements including Street, Water Main and Sewer Main as presented in the Phase I approval

Staff Contact: Mayor

Michelle Millsap

From: Michelle Millsap
Sent: Friday, September 07, 2012 10:10 AM
To: 'Steve Parr'
Cc: 'Mayor Burt'; Barry Fox; Elaine - City Clerk; Brent Burklund
Subject: RE: FW: Broken Bow - Rolling Hills Development 2011-1
Attachments: STC ENG-C3012070217030.pdf; Concrete Core Test Report 7-31--12.pdf; Dry Unit Wt Compaction Report.pdf; Print scan-20120727133238-0000.tif (1 page).pdf; Broken Bow - Woodcrest Final Plat - 2011.pdf

Importance: High

Mr. Steven Parr, RLS
JEO Consulting Group, Inc.
PO Box 207
142 W. 11th Street
Wahoo, Nebraska 68066-0207
sparr@jeo.com

September 7, 2012

Dear Sir,

In response to your inquiry, we have asked our Engineer to provide the information requested. Following is the information that has been submitted regarding the Rolling Hills Development. Also attached are the requested test results and the Final Plat. Please review and respond as to the next steps and timeline for project acceptance.

Your requests, forwarded to us by Tony Tolstedt on 8/28/2012:

- “1. A letter from the Engineer of record stating the project was constructed according to the plans and specifications.

A letter sent around July 2nd, 2012 to Tony, City Manager. The letter is attached here again.

2. A set of “Record Drawings” or “As Builts” that would show any changes from the original plans. This should also show the location of the water and sanitary sewer service lines for each lot in relation to the lot lines, water main connections.

The construction was conducted without significant differences to the design.

3. A copy of the shop drawings of the materials incorporated into the project.
 - a. Water main pipe
 - b. Sanitary sewer main Pipe
 - c. Fire hydrant
 - d. Gate valve

- e. Fittings (tee, cross, etc.)
- f. Water service line materials (service line, saddle, corporation, curb stop, box)
- g. Sanitary sewer manhole
- h. Sanitary sewer service line material
- i. Concrete mix design for paving
- j. Storm sewer pipe

Submittal information is attached. NDOR 47B mix was used per NDOR specifications and design and thus no design submittal was made.

4. Testing Data

- a. Trench testing (water, sanitary sewer, storm sewer, service lines)
- b. Subgrade testing
- c. Concrete testing (paving) slump, air, strength
- d. Water main disinfection results (Tony T furnished a copy to me.)
- e. Pressure test results of water main
- f. Low Pressure air test results of sanitary sewer main
- g. Copy of tv inspection of sanitary sewer main
- h. Sanitary sewer main deflection test
- i. Sanitary sewer main alignment test

Available testing results are attached. The water and sewer main testing was done on site with approval by Darren Marten in the field with Myers Construction.

I would also recommend a walkthrough of the project by City Staff (water, sewer, street), which I believe you have already done. I would check to make sure the manholes are clean and grouted, water main valve boxes are clean and the valves operate properly, storm sewer inlets are clean and grouted, fire hydrants operate properly, paving joints are sealed, etc.

The walkthrough has been completed by respective City of Broken Bow staff with Chris Myers.

I also noted on the plans that on the water and sanitary sewer plan sheets the street is labeled North Loop Road but on the paving sheet it is labeled Maple Road. I am not sure which one is correct. Maple Road is correct; See attached final plat.

Are the lot pins set? Finished on 8/30/12.”

If you have further questions, please contact me.

Sincerely,
Barry Fox
Manager
Rolling Hills LLC





T. C. ENGINEERING INC.

ONE SOUTH SYCAMORE STREET
P. O. BOX 832
NORTH PLATTE, NEBRASKA 69103
(308) 534-9245
email: tcw@tcengineeringinc.com
brb@tcengineeringinc.com

June 29th, 2012

Mr. Tony Tolstedt
City Administrator
PO Box 504
314 South 10th Ave
Broken Bow, NE 68822

RE: Woodcrest Subdivision Phase I

Dear Mr. Tolstedt,

This letter is in reference to the above Subdivision Infrastructure improvement including the Street work, water main, and sewer main work as presented in the Phase I approval.

To the best of our knowledge and understanding, the work has been substantially completed in accordance with the design drawings and specifications.

Thank you for your work on this project. If you have any questions, feel free to call or email as needed.

Sincerely,

Brent R Burklund, P.E.

MID-STATE**ENGINEERING
& TESTING INC.**

11 EAST 11TH STREET, KEARNEY, NE 68847

OFFICE: (308) 237-0187 FAX: (308) 237-9657

PROJECT: Hillcrest Subdivision

LOCATION: Broken Bow, Nebraska

CONTRACTOR: Myer's Construction

PROJECT #: 159-03-19

CONCRETE CORE TEST REPORT**LOCATION OF CORES:**

- 1) North Loop Road, Sta 0+75, 4' Right of Centerline
- 2) North Loop Road, Sta 1+25, 4' Left of Centerline
- 3) North Loop Road, Sta 2+00, 9' Right of Centerline

SPECIMEN DATA

FIELD NUMBER	1A	2A	3A			
DATE CAST	Unknown	Unknown	Unknown			
AGE WHEN TESTED, DAYS	Unknown	Unknown	Unknown			
LABORATORY NUMBER	CR-4	CR-5	CR-6			
DATE CORED	7/31/12	7/31/12	7/31/12			
DATE TESTED	8/1/12	8/1/12	8/1/12			
CORE LENGTH (in.) (cut)	5 15/16"	6 9/16"	5 13/16"			
CAPPED LENGTH (in.)	6 1/8"	6 5/8"	6 1/8"			
DIAMETER (in.)	3.93"	3.93"	3.93"			
LENGTH/DIAMETER RATIO	1.51	1.67	1.48			
AREA (sq in.)	12.13"	12.13"	12.13"			
UNIT WEIGHT (pcf)	139.9	134.6	140.7			
MAXIMUM LOAD (lbs.)	60,610	58,590	56,690			
COMPRESSIVE STRENGTH (psi)	5000	4830	4670			
CORRECTED COMPRESSIVE STRENGTH (psi)	4800	4690	4480			

COPIES TO:**REMARKS:**

- 1) Original Length 6 1/4"
- 2) Original Length 6 3/4"
- 3) Original Length 6"

**MID-STATE
ENGINEERING &
TESTING, INC.**

**DRY UNIT WEIGHT
COMPACTION
TEST REPORT**

Project: Hillcrest Subdivision
Location: Broken Bow, Nebraska
Job No.: 159-03-19
Date: 7-31-12

TEST RESULTS

Sample No.	Location	Material Content	Moisture Content	Wet Density	Dry Density	Max Density	Compaction Percentage
1	Sta 0+75, 4' Right of Centerline	Light Grey Brown Lean Clay w/ Rust Stains & Calcium Deposits	18.0%	122.3	103.6	105.0	99%
2	Sta 1+25, 4' Left of Centerline	Light Brown Lean Clay w/ Rust Stains & Carbon Deposits	10.1%	N/A	N/A	N/A	N/A
3	Sta 2+00, 9' Right of Centerline	Light Grey Brown Lean Clay w/ Rust Stains & Carbon Deposits	15.3%	114.5	99.3	105.0	95%

Remarks: Sample Number 2 fell apart. Could not get density, only moisture content.

Lab No: A-6256

BIOLOGICAL EXAMINATION OF PUBLIC DRINKING WATER

WATER SUPPLY # NE 3104105 SAMPLE LOCATION E.H. top of Hill near Subdiv 32
 CITY-VILLAGE Broken Bow SITE _____ ZONE _____
 DATE COLL 7.25.2012 TIME 8:30 AM SAMPLE TYPE
 COLL BY Myers Christopher ☐ RT - ROUTINE
 LAST FIRST ☒ SP - SPECIAL
☐ RL - REPLACEMENT
☐ RF - REPEAT

FOR LABORATORY USE ONLY

SAMPLE NO. 88772

DATE RECEIVED 7.26.12
 MONTH DAY YEAR

☒ Sample meets bacteriological safety requirements.
☐ Sample DOES NOT meet bacteriological safety requirements.

COLIFORM 0 / 100mL
☐ S.M. 9222B ☒ S.M. 9222B-PAIOT

FOR REPEAT & REPLACEMENT SAMPLES ONLY

ORIGINAL LABORATORY SAMPLE # _____
 REPEAT LOCATION CODE
☐ OR - ORIGINAL LOCATION
☐ OT - OTHERSITE
☐ NF - NEAR 1ST SERV. CONNECTION
☐ DN - DOWNSTREAM
☐ UP - UPSTREAM

TESTED BY M DATE OUT 7.27.12
 MONTH DAY YEAR

PLEASE PRINT YOUR COMPLETE ADDRESS

NAME Myers Construction
 MAILING ADDRESS 79849 HWY 2
Broken Bow NE 68822
 CITY STATE ZIP CODE

CENTRAL DISTRICT HEALTH LABORATORY
 1137 SOUTH LOCUST STREET, GRAND ISLAND, NE 68801
 308-385-5175 • FAX 308-385-5181 • www.cdhd.ne.gov

BIOLOGICAL EXAMINATION OF PUBLIC DRINKING WATER

WATER SUPPLY # NE 3104105 SAMPLE LOCATION E.H. top of Hill near Subdiv 32
 CITY-VILLAGE Broken Bow SITE _____ ZONE _____
 DATE COLL 7.26.2012 TIME 9:10 AM SAMPLE TYPE
 COLL BY Myers Christopher ☐ RT - ROUTINE
 LAST FIRST ☒ SP - SPECIAL
☐ RL - REPLACEMENT
☐ RF - REPEAT

FOR LABORATORY USE ONLY

SAMPLE NO. 88771

DATE RECEIVED 7.26.12
 MONTH DAY YEAR

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