



300 Ottawa Ave NW • Suite 200 • Grand Rapids, MI 49503-2306 • Phone (616)774-2600

January 15, 2014

Mr. David Chelsea
Michigan Public Service Commission
6546 Mercantile Way
PO Box 30221
Lansing, MI 48911

Re: Case U-17241
Completion Report

Dear Mr. Chelsea:

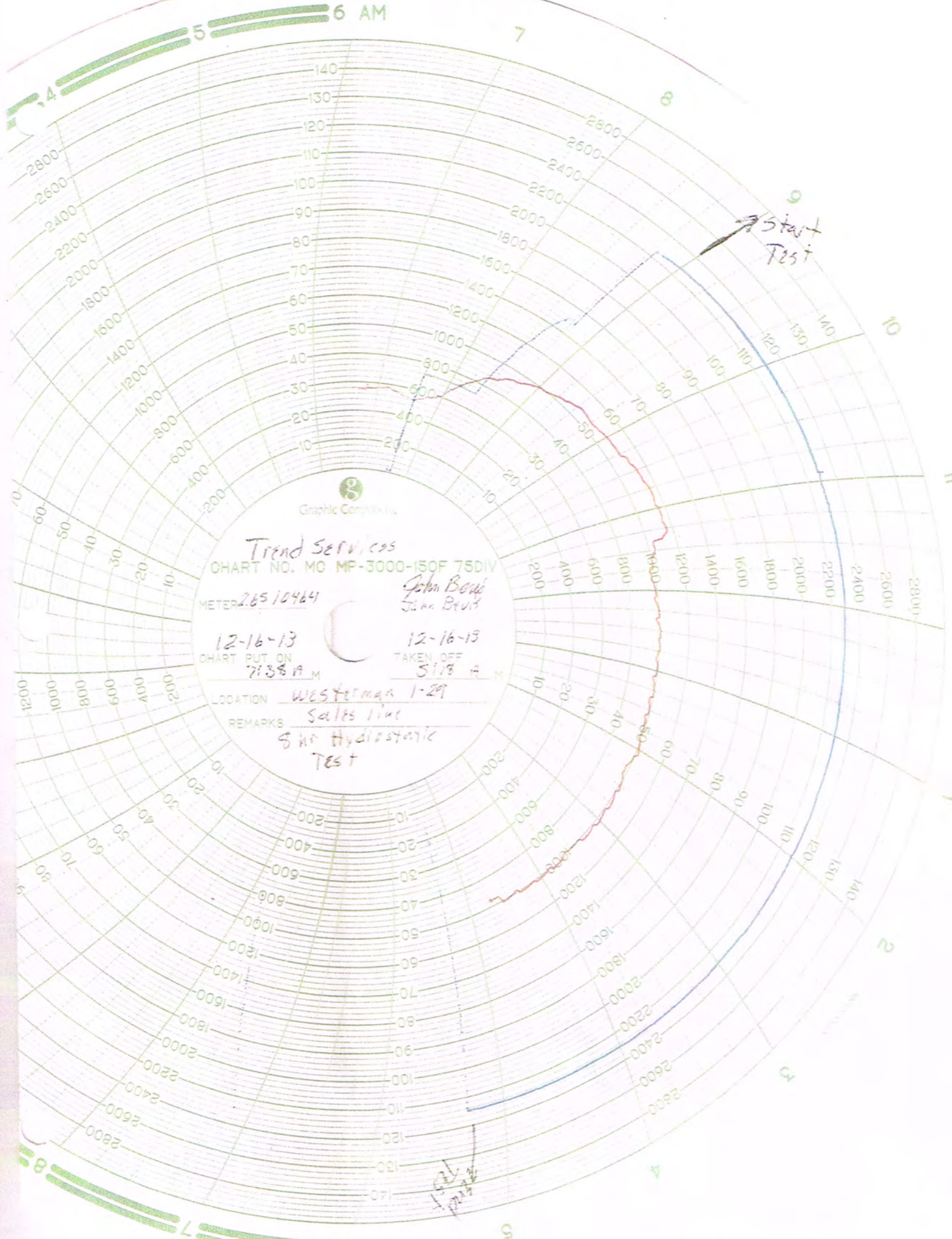
In accordance with Rule 460.20502 of Michigan Gas Safety Code, enclosed are copies of the test charts and reports for the Westerman 29- 4" Pipeline, which was authorized in the above reference case.

Also enclosed is the As-Built map of the pipeline.

Respectfully

A handwritten signature in black ink that reads "Matthew R. Cross". The signature is written in a cursive, flowing style.

Matthew R. Cross



Graphic Company Inc.

Trend Services
 CHART NO. MC MP-3000-150F 75DIV

METER 2.65 10464

John Bevi
 John Bevi

12-16-13
 CHART PUT ON
 7:38 A M

12-16-13
 TAKEN OFF
 5:18 A M

LOCATION WESTERMAN 1-29

REMARKS Salts line
 SHR Hydrostatic
 TEST

Start Test

12/16/13

Pressure Test Report

Deadweight Reading in (PSIG)

Test Date: 12-16-13

Test Company: Trend Services Company

Phone: (231) 258-9951

Location: Wister man 1-29 Sales Line

HR	Time AM/PM	Pressure (PSIG)	Temp (F) AMI/Pipe	Remarks	HR	Time AM/PM	Pressure (PSIG)	Temp (F) AMI/Pipe	Remarks
	7:38 AM	220	1	pressure up		12:30 pm	2258	112.5/148	
	8:40 AM	1510	1	pressure up		12:45 pm	2258	115.5/149	
	8:45 AM	2256	1	pressure up		1:00 pm	2258	119.4/149.5	
	9:00 AM	2256	78 142	start test		1:15 pm	2258	118.8/150	
	9:15 AM	2256	75.4/144			1:30 pm	2258	109/149	
	9:30 AM	2256	94/147			1:45 pm	2258	116.8/149	
	9:45 AM	2256	101.7/150			2:00 pm	2258	118.5/149	
	10:00 AM	2257	109.1/152			2:15 pm	2259	117.1/149.5	
	10:15 AM	2257	108.9/154			2:30 pm	2259	116.9/149	
	10:30 AM	2258	108.6/153.5			2:45 pm	2259	120.2/150	
	10:45 AM	2258	109.3/154			3:00 pm	2259	112.4/149	
	11:00 AM	2258	105.5/155			3:15 pm	2259	120.2/150	
	11:15 AM	2258	112/157			3:30 pm	2259	119.4/150.5	
	11:30 AM	2258	116.5/157.5			3:45 pm	2259	119.9/151	
	11:45 AM	2258	116.1/157			4:00 pm	2259	118.3/151	
	12:00 pm	2258	118.8/153	Electric motor shut off		4:15 pm	2259	112.6/149	
	12:15 pm	2258	113/151			4:30 pm	2259	115.9/150	

By: John Bevis John Bevis

Test Witness: Matthew R Cross

For the job: J. S. Cross

CERTIFICATE OF CALIBRATION

PC GAUGE CAL./RPR CO., LLC

629 GARFIELD AVE
HEIDELBERG, PA 15106
412-276-7299
FAX: 412-279-9709

CAL: 2/12/2013

CUST: TREND SERVICES

CAL DUE: 2/12/2014

ATTN: MIKE SABCOCK

PO#: VBL
MOD: XP2i

MFR: CRYSTAL ENGR
S/N: 264077

STANDARD(S) USED: M&G DW TESTER w CRYSTAL ENGRG DIGITAL
TEST INDICATOR
NIST TRACEABLE #: CRYSTAL ENGRG DIG TEST INDICATOR s/n 969303
: REPORT #01110034 certificate # 280679
: due date: 9-30-13
: CALIBRATIONS COMPLY w ISO/IEC 17025:2005
AND ANSI/NCSL Z540-1-1994

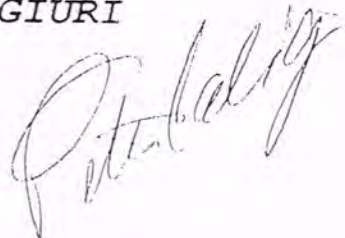
TEMP: 72	Deg F +-3	R.H.: 34-54%	
STANDARD	GAUGE RDG. (AS LEFT)		ERROR
0 PSI	0	PSI	0 PSI
1000	1000		0
2000	2000		0
3000	3000		0
4000	4000		0
5000	5000		0
6000	6000		0
7000	7000		0
8000	8000		0
9000	9000		0
10000	10000		0

CALIBRATION WAS PERFORMED WITH UNIT IN A VERTICAL POSITION
MAXIMUM ALLOWABLE TOLERANCES: +- 20-100% FS $\pm .1\%$ FS
: +- 0-20% $\pm .02\%$ FS

SATISFACTORY: XXXX

UNSATISFACTORY

PETER CALIGIURI



CERTIFICATE OF CALIBRATION

PC GAUGE CAL/RPR CO., LLC
629 GARFIELD AVE.
HEIDELBERG, PA. 15106
412-276-7299
FAX: 412-279-9709

CUST: TREND SERVICES

PO#: VBL

CAL: 8/18/2013
DUE: 8/18/2014

TYPE J THERMOCOUPLE

STANDARD: MERIAM 477 M1 SERIES
NIST# : 637998 CERT: 241916

S/N: 49002/1020000002
due: 9/26/2013

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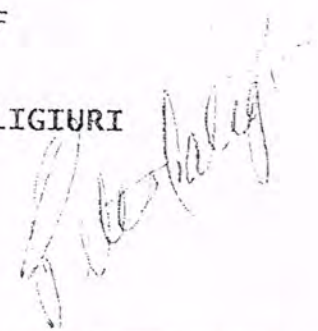
CALIBRATION OF :

MANUFACTURER: PYROMATION MODEL: 28-02700-J S/N: 48893

STANDARD	I/R TEMP DET	ERROR
Deg F	Deg F	Deg F
4	4	0
38	38	0
64	64	0
77	77	0
110	110	0
168	168	0
250	250	0

TOLERANCES +-2.0 DEG F

CONDITION: SATISFACTORY TECHNICIAN: PETER CALIGIURI



Certification

We Certify that the instrument identified below has been tested and calibrated in the vertical position using precision test equipment (the accuracy of which is traceable to the National Institute of Standards and Technology) and that this instrument is accurate to within +/-1% of full scale.

Make & Model: BARTON STATIC/TEMP RECORDER

Serial Number: 26510464

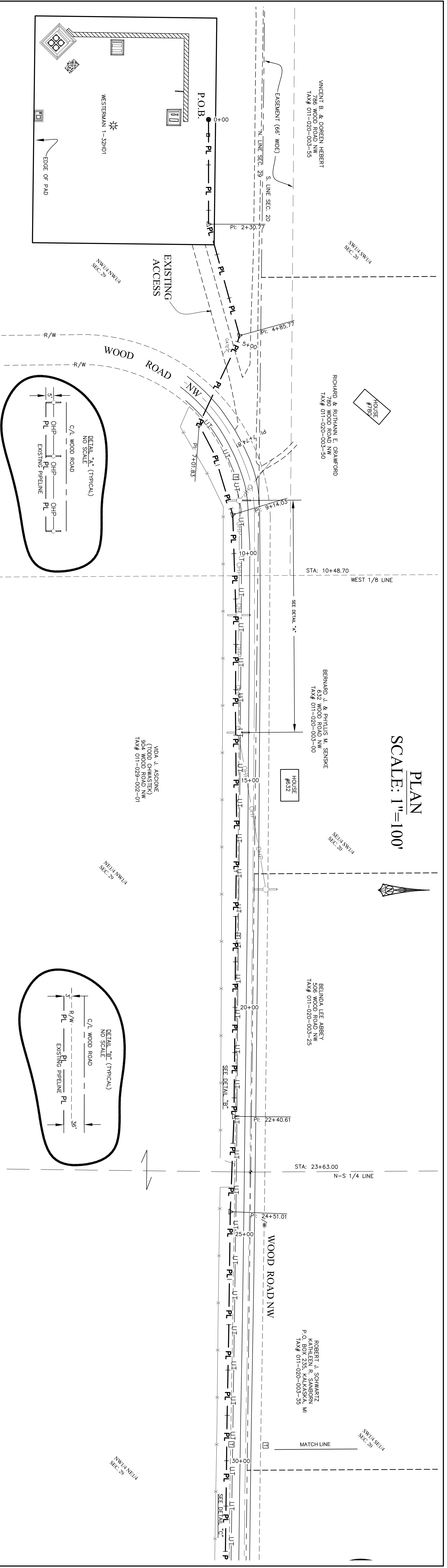
Range: 0-3000#X0-150F

Calibrated By: JOHN BEVIS

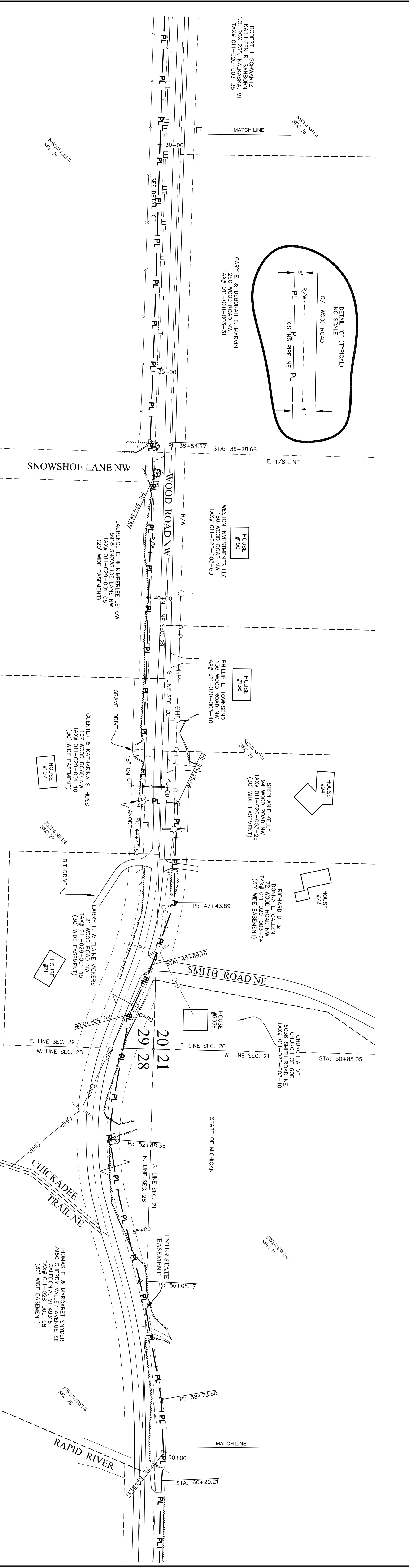


Date: 12/13/2013

Traceable to NIST: PYROMATION/MODEL:TYPE J SN:48893
MFR:CRYSTAL ENGR MOD:XP2i S/N:264077
Based on Standard Gravity @ 60F and
40% Relative Humidity



PLAN
SCALE: 1"=100'

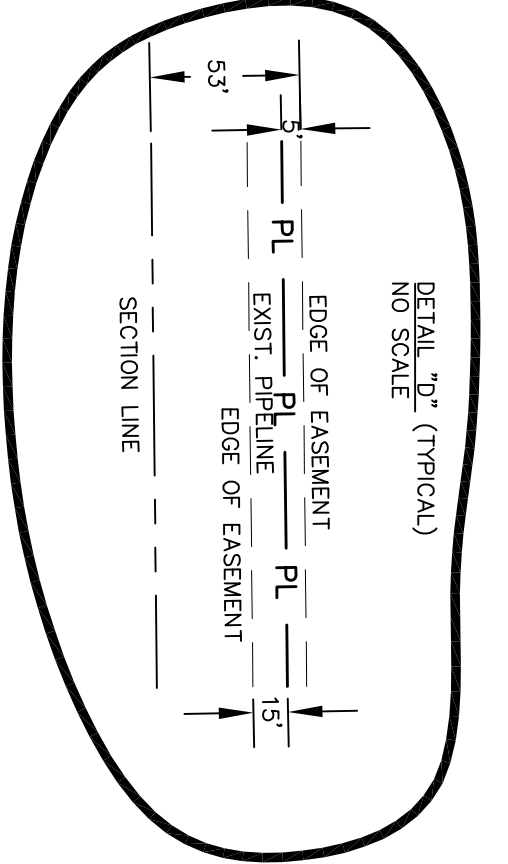
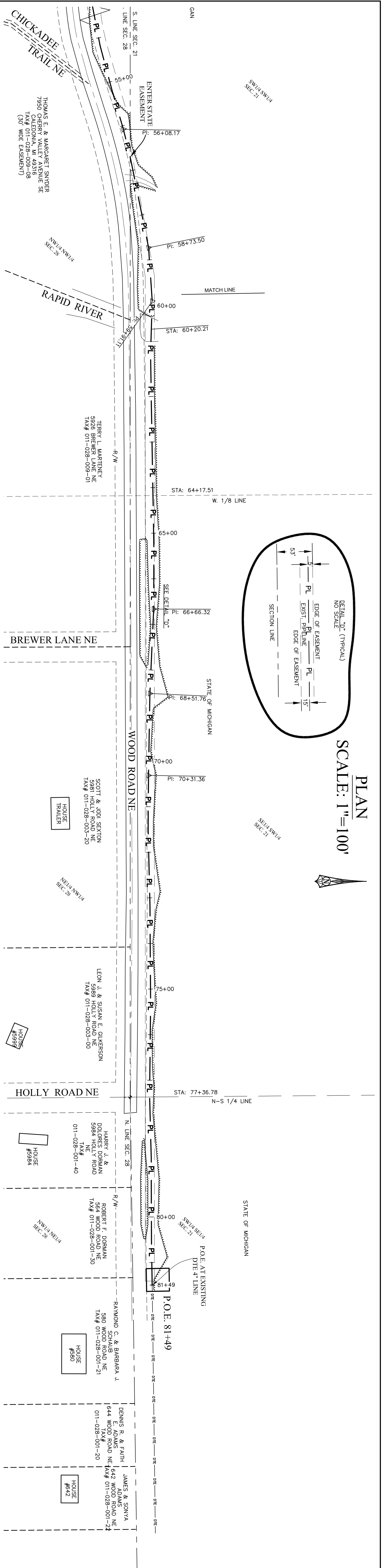


* = EXISTING SHL
 ◊ = GUY ANCHOR
 ⊙ = GUY POLE
 ⊠ = TELEPHONE PEDESTAL
 ⊡ = POWER POLE
 --- = PRELINE
 - - - = UNDERGROUND TELEPHONE
 - - - = WIRE FENCE
 - - - = OVERHEAD POWER
 --- PL --- = EDGE OF PIPELINE EASEMENT
 --- PL --- = EXISTING PIPELINE

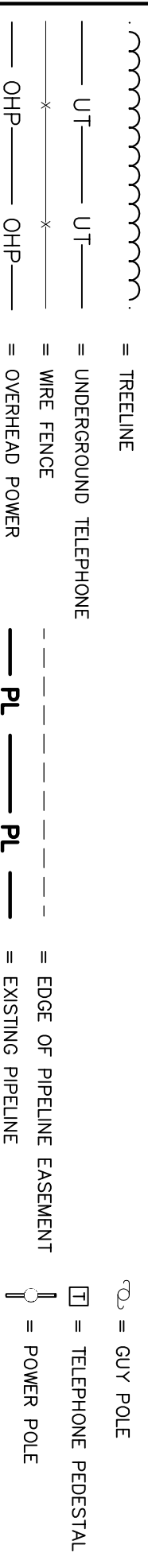
* = EXISTING SHL
 ◊ = GUY ANCHOR
 ⊙ = GUY POLE
 ⊠ = TELEPHONE PEDESTAL
 ⊡ = POWER POLE

WESTERMAN 29 PIPELINE - AS-BUILT

FARRIER SURVEYING INC.	CLIENT	MAJOR PIPELINE
P.O. BOX 998 244 CEDAR STREET KALKASKA, MI 49646 TEL(231)258-8162 FAX(231)258-3249 office@farriersurveying.com	WESTERMAN 29 PIPELINE	WESTERMAN 29 PIPELINE
	DESCRIPTION	DRAWN: MRS
	PART OF SECTIONS 20, 21, 28, & 29, T28N-R7W, RAPID RIVER TOWNSHIP, KALKASKA COUNTY, MICHIGAN	FILE No. E3712-PL
		CHECK: DRF
		Fd. Bk. 239 Pg. 7
		REVISED:
		DATE: 1/10/14
		SHEET: 1 of 2



PLAN
SCALE: 1"=100'



WESTERMAN 29 PIPELINE - AS-BUILT

FARRIER SURVEYING INC. P.O. BOX 998 244 CEDAR STREET KALKASKA, MI 49646 TEL(231)258-8162 FAX(231)258-3249 office@farriersurveying.com		CLIENT: MAJOR PIPELINE DESCRIPTION: WESTERMAN 29 PIPELINE PART OF SECTIONS 20, 21, 28, & 29, T28N-R7W, RAPID RIVER TOWNSHIP, KALKASKA COUNTY, MICHIGAN	DRAWN: MBS CHECK: DRF REVISED: DATE: 1/10/14 SHEET: 2 of 2
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