



## Pipeline Pressure Test Documentation

Pressure Test Report

Form :

Revision  
3

Revision Date

Project Name : **AE20 Non-Piggable (Wells Ranch)**  
 AFE No. : **5008516**

Contractor / Testing Company : **1888 Industrial Services** Technician : **Shawn Philp**

Test Section No. : **0** From Station No. : **0+00**

Test Description : **Testing approx. 500' of 4" flex steel + valve sets** To Station No. : **4+70**

Test Type : **Subpart E Test** Start of Test Period : Date : **8-6-2020** Time : **5:00 am**

Min. Test Duration : End of Test Period : Date : **8-6-2020** Time : **3:45 pm**

Class Location : **Not Applicable (Liquids)**

Low Strength Pipe : O.D. : W.T. : SMYS : Grade : Station Piping : **Yes**

Test Medium : **H<sub>2</sub>O** Source of Medium : **Corecty, Co** N/A

Corrosion Inhibitor : **No** Inhibitor Type : **N/A** Rate : **N/A**

Leak Detection : **No** Material Type : **N/A** Rate : **N/A**

Deadweight Tester : Mfg: **Crystal** Serial #: **563422** Calibration Date : **5-18-2020**

Deadweight Tester Location : Station No. (ESN) : Elevation (ft) :

Pressure Recorder : Mfg: **Bar ton** Serial #: **202A-272617** Calibration Date : **5-7-2020**

Pipe Temp. Recorder : Mfg: **Bar ton** Serial #: **202A-272617** Calibration Date : **5-7-2020**

Target Test Pressure Range

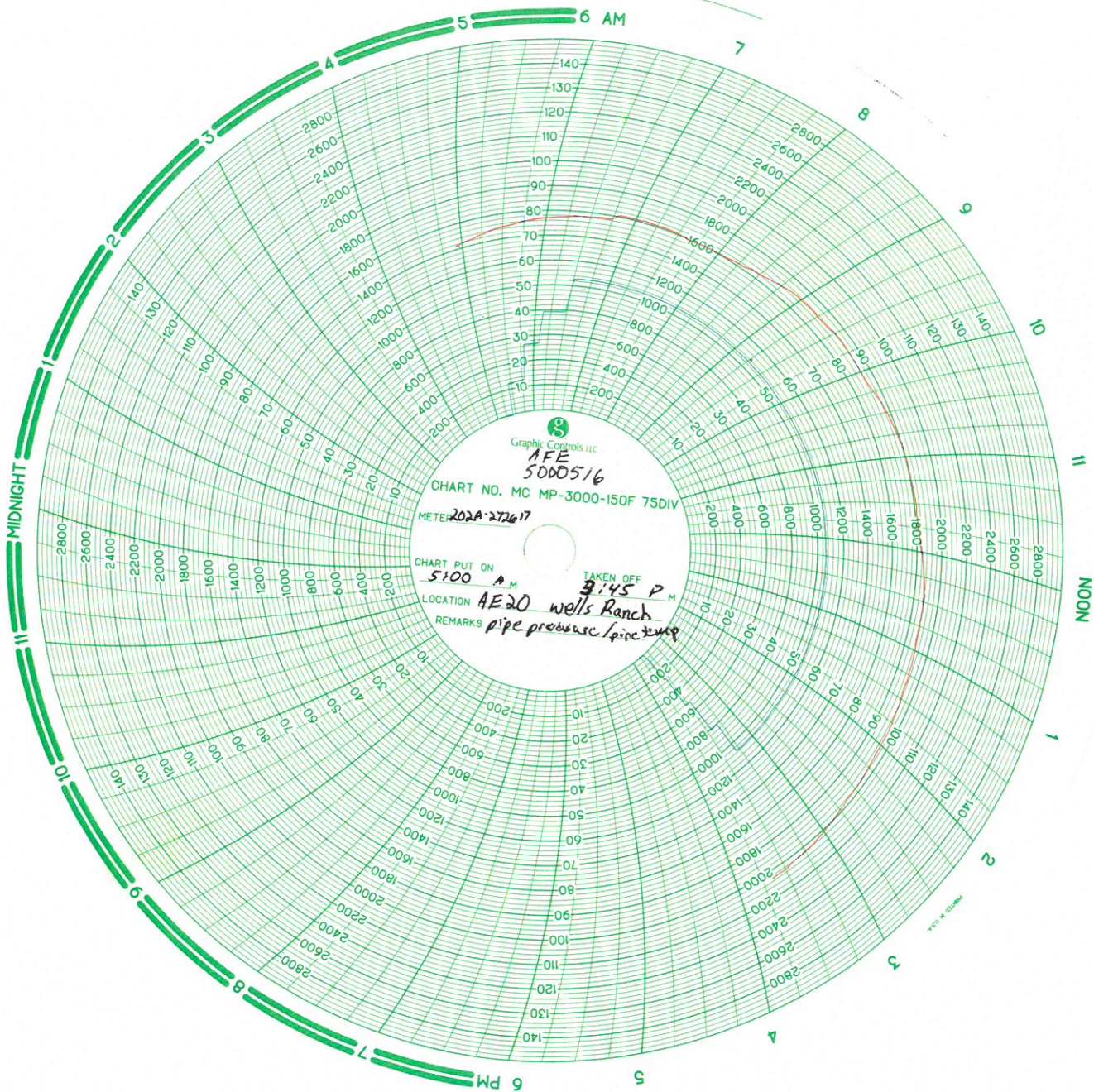
Pre-approved Target Test Pressure : **1050** psig Maximum Test Pressure : **1125** psig

Max Elevation Change : Minimum Test Pressure : **925** psig

Time	Pressure (psig)	Pipe Temp.	Amb. Temp.	Weather	Visual Inspection	Comments
5:00 am	0	76	70	Sunny hot	Good	0 hold
5:15	262	76	75			25% hold
5:30	536	76	75			50% hold
5:45	785	74	71			75% hold
6:00	785	75	71			
6:15	785	76	72			
6:30	1050	78	72			15 min hold
6:45	1050	78	73			Begin test 8 hr
7:00	1050	80	74			
7:15	1050	81	73			
7:30	1050	81	74			
7:45	1051	80	75			
8:00	1051	80	76			
8:15	1051	81	77			
8:30	1051	82	78			
8:45	1051	83	79			
9:00	1051	85	80			
9:15	1052	85	82			
9:30	1052	85	86			
9:45	1052	85	85			
10:00	1052	85	86			
10:15	1052	86	88			







Graphic Controls Inc.  
 AFE  
 5000516

CHART NO. MC MP-3000-150F 75DIV  
 METER 202A-272617

CHART PUT ON 5:00 A.M.  
 TAKEN OFF 3:45 P.M.  
 LOCATION AE20 wells Ranch  
 REMARKS pipe pressure / pipe temp

MODEL 8-11-A

# Cross Country Infrastructure Services. Inc

Sales and Service

2251 Rifle Street - Aurora, Colorado 80011

Phone 303.361.6797 Fax 303.361.6836

## NIST CALIBRATION DATA

Model Number	Serial Number	Customer	Range	Accuracy
Bartom	202A-272617	1888	3000# - 150F	1/2%
Work Performed:		Calibration: Output/Reading	Results: Pressure	
Calibrate to Mfg. Spec.		0 PSI	0 PSI	
		600 PSI	600 PSI	
		1200 PSI	1200 PSI	
		1800 PSI	1800 PSI	
		2400 PSI	2400 PSI	
		3000 PSI	3000 PSI	
		33 Deg	33 Deg	
		67 Deg	67 Deg	
		104 Deg	104 Deg	
149 Deg	149 Deg			
PO Number		Sales Order Number	Date of Test	
Calibrated		Cerified	5/7/2020 11:00:26 AM	

Remarks: ALL CALIBRATIONS ARE GOOD FOR ONE YEAR FROM DATE OF TEST

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### Standard Used:

Manufacturer	Model	Instrument	Calibration Date	Certification #
Perma-Cal	101FTM15B21	Pressure Gauge	03/01/2019	17-043
Tech Instrumentation	TM99A	Thermometer	03/01/2019	59448

Don F.

Signature Don Frick 5-7-20



# Certificate of Accredited and Traceable Calibration



Laerie, Inc. Issues this Certificate of Calibration to:

**Certificate Number: 174056.7994**

**1888 Industrial Service**

Customer Purchase Order: 28252

41350 County Road 33 Ault, CO 80610

Calibration Order: **CAL-2**

For Asset: **563864**

This calibration is traceable to the international system of units(SI), through National Institute of Standards and Technology (NIST).

Hutchinson's method is used including Guard Banding and TUR Strategy, False-Accept Risk normal distribution and 95% confidence level typical with coverage factor of 2.

**1888 Industrial Service** : accepts and understands measurement uncertainties and risk assessment in all measurements involved in calibration.

Manufacturer	Model	Serial Number	Description	Calibrated	Int. MTh's	Re-Cal
Crystal	RTD100	563864	100 Ohms PRT, Upper Module	20-May-2020	12	20-May-2021

C-Procedure	Environmental	As-Received Physical Condition(s)
MPS /Crystal_RT D100	73.4°F ±9°F, 40 to 65%RH	1) AS-Received Annual maintenance performed, nominal exterior cosmetic wear, exterior cleaned where possible, initial inspection PASS.
Calibration Event:		

2FL: Z540 Compliant Calibration performed published data no adjustments required or performed.

**Primary Standards Traceability Number Used in Calibration**

STD	Projected Re-Cal.	Description	STD	Projected Re-Cal.	Description
1620	4/2021	Environmental Chamber			
2142	4/2021	Environmental Chamber			

**Comments:**  
with 479092 chassis and 563864-PRT probe

[www.laerie.com](http://www.laerie.com)

Laboratory Altitude: 5,044 Ft.

56 Gateway Circle Berthoud, Colorado 80513  
877-532-7990 970-532-7990

**Veridical Review By:**

L. E. Armfield CEO/President

**Procedure Executed by:**

NDH

CALIBRATION LOCATION: Laerie Inc. Laboratory

TCC 2018-16B

Project: Non-Piggalbe  
 Replacement  
 Location: AE20  
 Date: 12.19.2019  
 By: M Solomon - 440.454.2715



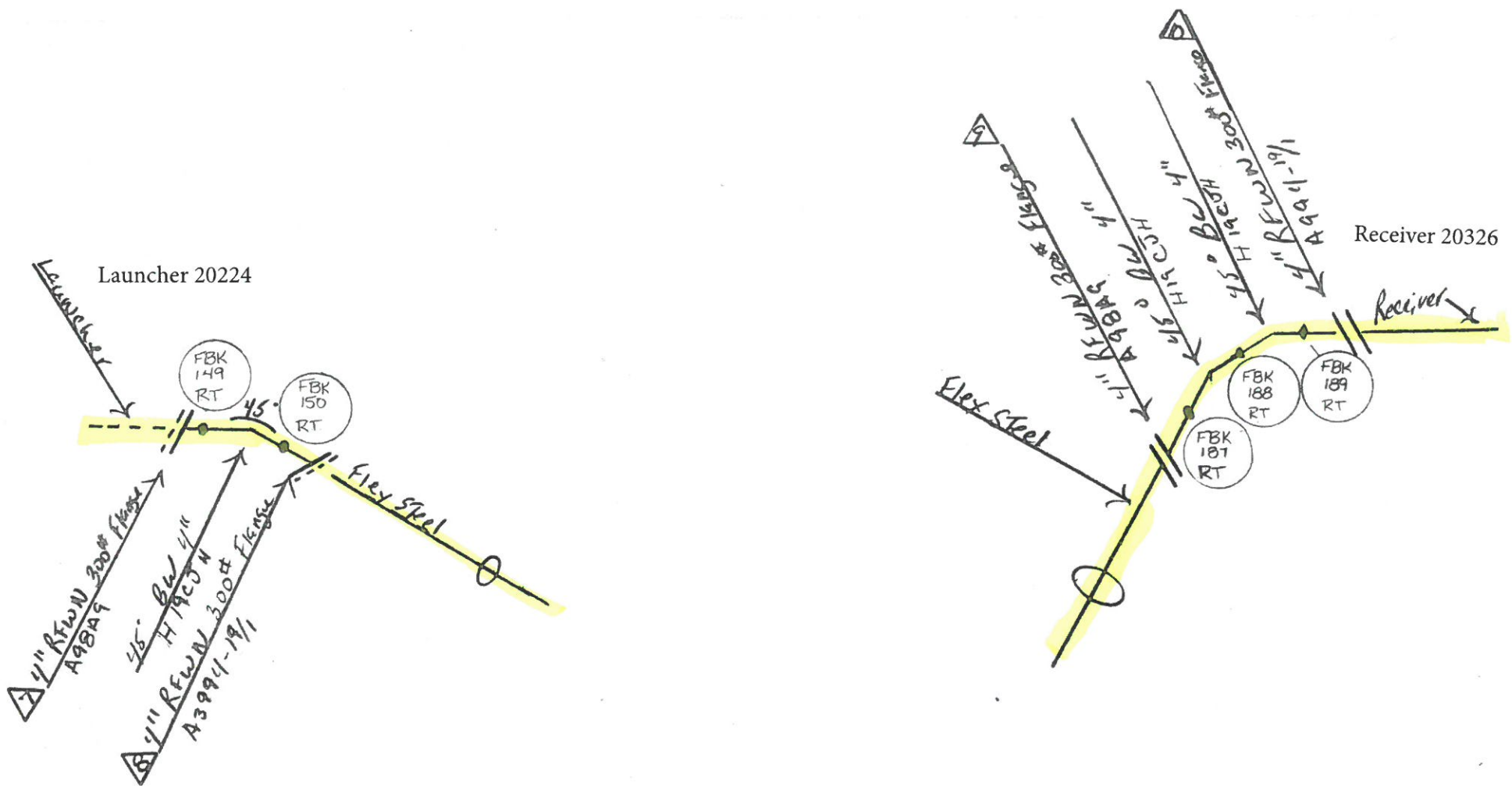
**Existing Installation**



**New Installation**

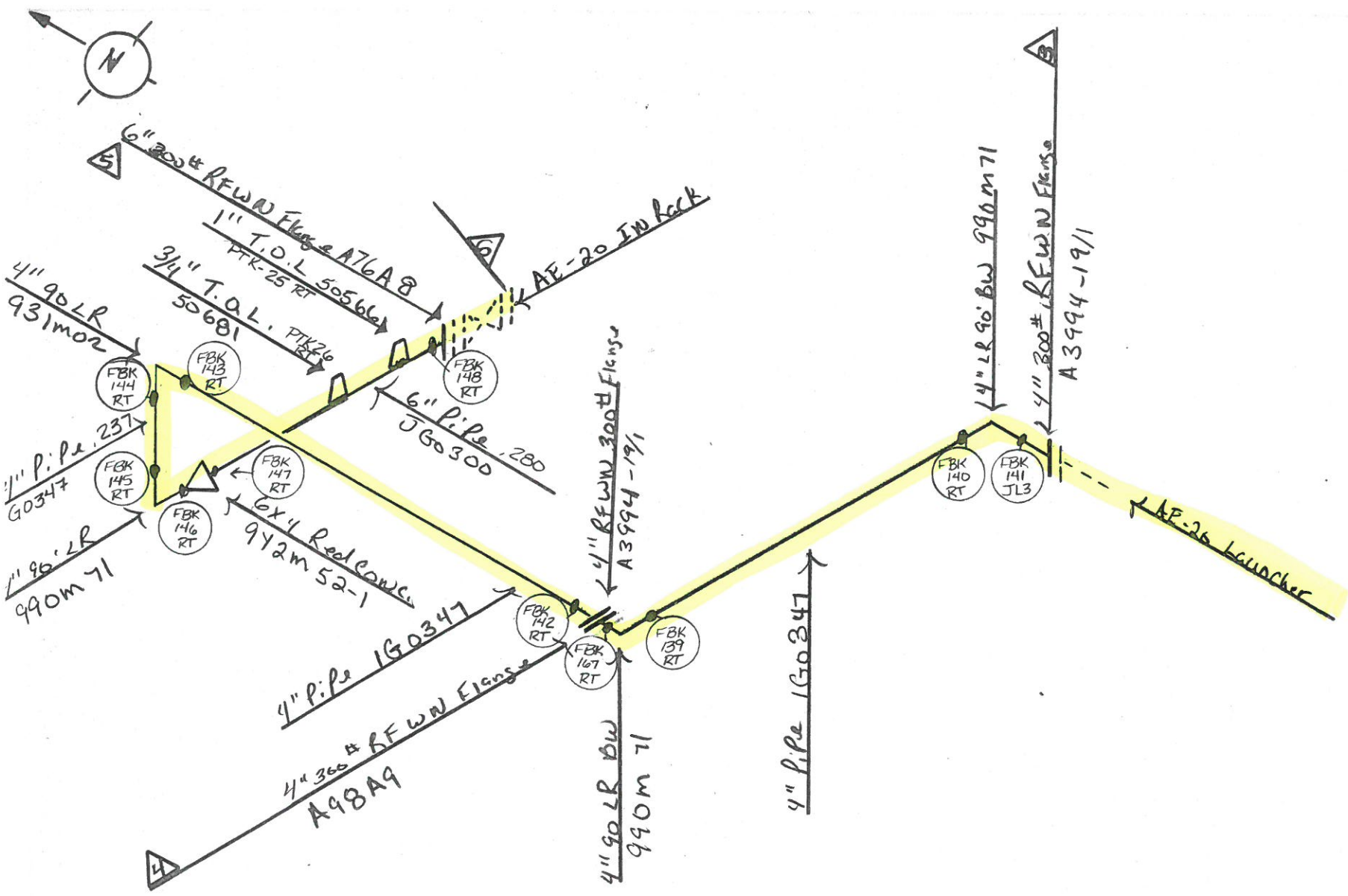
**Notes:**

1. Astrix (\*) denotes to reuse existing component.
2. All olets are TOL unless noted otherwise.
3. Locate 1" vent adjacent to TP.

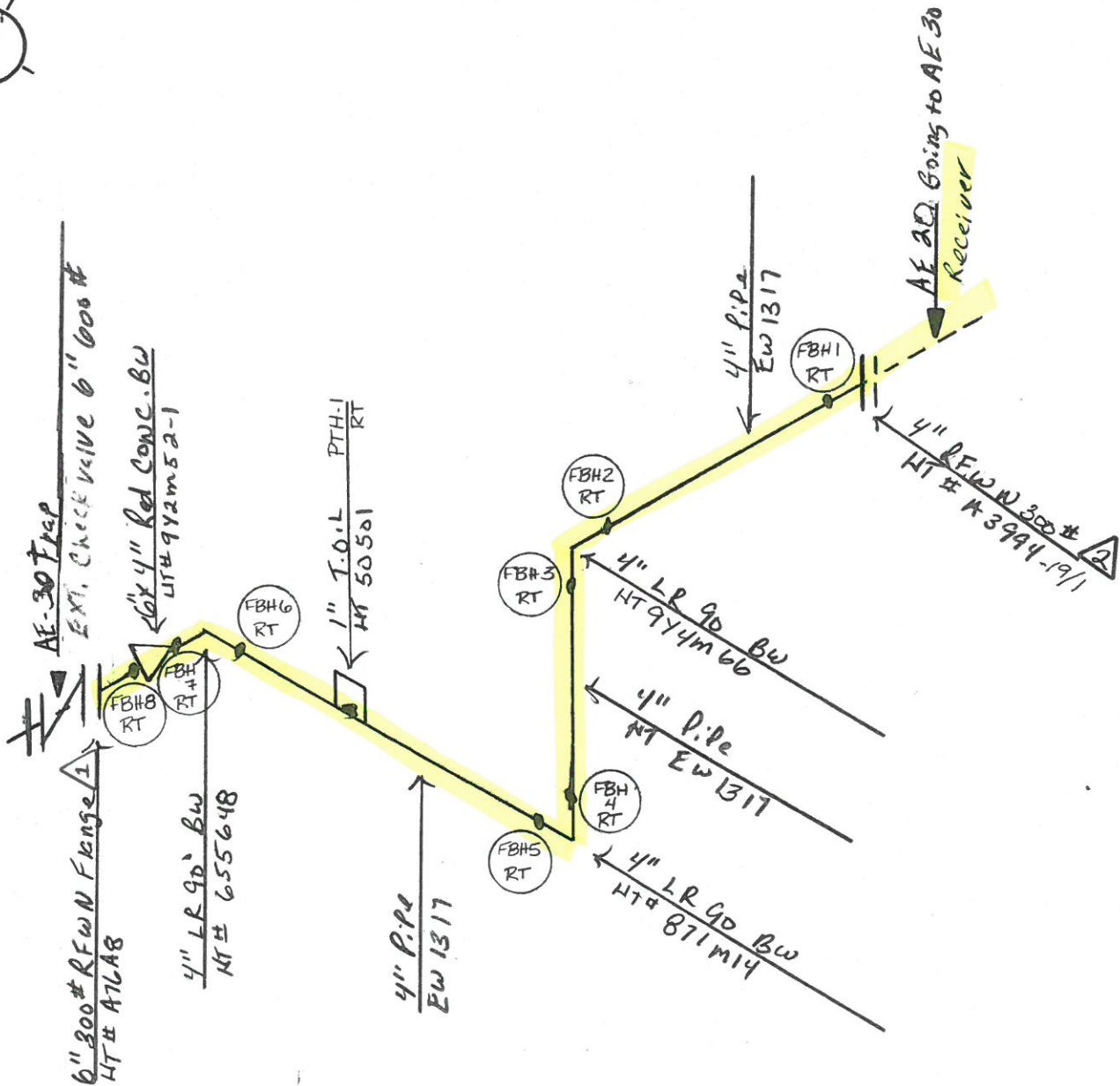
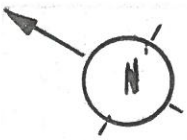


Fab From Launcher To Flex Steel & Receiver To Flex Steel  
Downie & Scucchi JR 8-6-2020





Piping From AE-20 Rack To Launcher  
Donnie Scucchi Jr. 8-6-2020



Temporary Bypass From AE 20 TO AE 30  
Domnie Scucchi JR. 8-6-2020