

Contract Change Order # 1

Project Name: <u>East Nashville Street</u>	Project Number: <u>ED1701</u>
Project Location: <u>E. Nashville on Lynn Lane between 81st and 91st</u>	Date of Application: <u>Tuesday, February 12, 2019</u>
Contractor: <u>Crossland Heavy Contractors</u>	Submitted By: <u>Chris Walters</u>

Summary of Change in Scope of Work

The following scope of work consisting of work location, work description, established quantities, and timeline for completion has been reviewed and agreed upon by the contractor, the origin funding department, and the Engineering and Construction Department.

Change of Work Items Included in this Change Order:

- During construction of the East Nashville Street project, the contractor found that the existing site conditions has a limestone rock shelf approximately 7 feet below existing surface elevations. The plans or geotechnical report did not show or disclose encountering rock during site investigations nor had specifications notifying the contractor of rock excavations for payment. Thus, the expenses for rock excavation
- 1) on the project shall be paid out separately and through change order. The contractor excavated the rock through means of blasting operations localized in the new storm sewer trench excavations along with the storm sewer outfall channel at the creek. The below costs summarize the contractor requested reimbursement request for said rock excavation required to install the storm sewer system as part of the East Nashville Project.

Change in Contractual Project Time:

- 1) Additional time on this project will be addressed on a later change order.

Plan Sheets or Additional Documents Attached: ☒ Yes ☐ No ☒ Other: Crossland Change Proposal

Work Order Quantities

Item#	(Spec)	Item Description	Units	Price	Quantity	Total Amount
CO1-1		Rock Excavation	LS	\$ 54,770.40	1	\$ 54,770.40
Total Change Cost:						\$ 54,770.40

Summary of Project Costs

Total Previous Change Orders:	\$ -	Original Contract Amount:	\$ 1,507,000.00
Current Change Order:	\$ 54,770.40	Amended Contract Amount:	\$ 1,561,770.40
Total Cost of Change Orders:	\$ 54,770.40	Percent Change in Contract:	3.65%
Total Cost Applicable to CBA:	\$ 54,770.40	Percent Change Applicable to CBA:	3.63%

Change Order Authorization

Change Order # <u>1</u> in the sum of:	\$ <u>54,770.40</u>	has been reviewed by all parties and is recommended for approval by:
Contractor Submitting Change Order:	Name	Signature Date
Construction Division Manager:	Timothy S Robins, PE	Name Signature Date
Director of Engineering & Construction:	Alex Mills, PE	Name Signature Date
Assistant City Manager - Operations:	Kenneth D Schwab, PE	Name Signature Date
City Manager:	Michael Spurgeon	Name Signature Date

This Change is Executed Through:

- ☐ This change to the contract documents is authorized by the City Manager's authority in accordance with the applicable state statutes and COBA Code of Ordinances.
- or
- ☒ This change to the contract documents was approved at the City Council/BAMA meeting held on : Wednesday, February 13, 2019

CROSSLAND

HEAVY CONTRACTORS

14149 East Admiral Place

Tulsa, Oklahoma 74116

tel 918.438.2800

fax 918.438.2801

Date: January 18, 2019

Dear Tim Robins,

This letter is to address the additional costs associated with rock encountered during excavation of the storm sewer. Per the Geotechnical Engineering Report prepared by Olsson Associates, seven bores were taken to a depth of 5'-0. The report claims that in this 5'-0, samples of the soil taken consisted of sandy lean clay with various amounts of sand, fat clay, silty clay, and silt. Nowhere in the report does it claim rock was encountered.

I've attached a plan sheet showing where rock was encountered in orange. It also shows existing elevations, elevations that rock was encountered and flowline elevations.

In order to maintain on schedule and not suffer a serious delay, we hired a company to drill and blast the rock. This would allow us to excavate the rock at a faster pace. Without this effort, the job would have fell well behind schedule.

We blasted over 900 LF of storm sewer and over 1,200 CY in the area of the drainage ditch by the cul-de-sac.

I have attached a cost breakdown showing what we spent on the blasting sub and also the increase in labor, equipment and trucking to remove and haul off the rock.

Should you have any questions or comments please feel free to contact me at (918) 237-6445.

Respectfully,

Brett Rogers
Crossland Heavy Contractors, Inc.

COST BREAKDOWN

Contract No.: Project No. ED 1701
Project No.: East Nashville Street
Contractor: Crossland Heavy Contractors, Inc.

Date: 01/18/19

Description of Work: Storm Sewer Rock Excavation

Materials:

Items	Units	Cost	Quantity	Amount
			Sub-Total	\$0.00
			Total	\$0.00

Labor:

Job Title	Rate/Hr.	Total Hrs.	Amount	
Operator	\$25.32	45.00	\$1,139.40	
Laborer	\$22.83	45.00	\$1,027.35	
Foreman	\$35.60	45.00	\$1,602.00	
			Sub-Total	\$3,768.75
			Total	\$3,768.75

Payroll Additives:

Item	% of Labor	Amount
Insurance	8.00%	\$301.50
Bond	0.00%	\$0.00
Social Security	7.65%	\$288.31
Taxes	3.80%	\$143.21
Worker's Compensation	22.00%	\$829.13
Employee Fringe Benefits	20.00%	\$753.75
Total		\$2,315.90

Equipment:

Type	Cost/Hr.	Total Hrs.	Amount
Excavator	\$115.25	45.00	\$5,186.25
Loader	\$27.13	45.00	\$1,220.85
Breaker	\$35.17	45.00	\$1,582.65
	\$0.00	0.00	\$0.00
			\$0.00
		Total	\$7,989.75

Sub-Contractor Cost -	\$40,696.00
Mark-up On Sub-Contractor (10%)	\$0.00
Contractor Cost	\$54,770.40
Contractor Profit	\$0.00
Contractor Total	\$54,770.40

Total Lump Sum Cost for Work Described	\$54,770.40
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If Not Lump Sum, Cost Per Unit	Total Cost	
	Quantity	

Contractor's Signature

Printed Name: _____

The PEXCO Company L. L. C.
6731 W 121st St
Ste 216
Overland Park, KS 66209



Invoice

Date	Invoice #
8/28/2018	18-1847

Bill To
Crossland Construction Company, Inc P.O. BOX 45 833 S. East Ave. Columbus, KS 66725

Job Location
Crossland Construction Company, Inc BA East Nashville Street Job No.: 18018RD Contract No.: 012

P.O. No.	Terms	Due Date	Account #	Project
per Contract 012	2% 10 Net 30	9/27/2018		

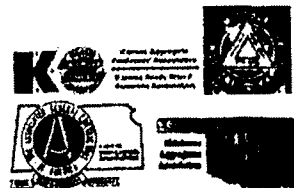
Date	Item	Qty	Description	Unit Price	Extension
8/20/2018	Job Mobilizati...	1	Item 001 - Mob & Demob	3,675.00	3,675.00
8/20/2018	Pre-blast Survey	1	Item 002 - Pre-Blast Survey of buildings and other structures in and around the blasting area - per local regulations and or request.	4,550.00	4,550.00
8/20/2018	P.V.C.E.	1	Item 003 - Bonds & Permits	1,000.00	1,000.00
8/21/2018	Cu. Yds drilled	1,235	Item # 004 - Blast # 175052 - Drill & Blast - charged by the cubic yards drilled	2.96	3,655.60
8/23/2018	Lin. Ft Blasted	800	Item 005 - Blast # 175053 - Drill & Blast - charged by the linear feet of trench blasted based on depth	30.50	24,400.00
8/28/2018	Lin. Ft Blasted	112	Item 005 - Blast # 175055 - Drill & Blast - charged by the linear feet of trench blasted based on depth	30.50	3,416.00

PLEASE NOTE NEW REMIT TO: The PEXCO Company, LLC.-
6731 W 121st St, Ste 216, Overland Park, KS 66209 EIN # 48-1237516
If you have any questions concerning this invoice, call: 913-205-1578
(late payments will incur 1.5% interest per month)
Thank you for your business.

Total	\$40,696.60
Balance Due	\$40,696.60



The PEXCO Company, L.L.C.
6731 W. 121st Street - Suite # 216
Overland Park, Kansas 66209
Phone (913) 907-5022
Fax (913) 273-0661
E-Mail rpilshaw@pdb-kc.com

**BLAST REPORT**

ATF & E Permit #. 5-KS-045-33-3K-00028		Kansas Users Permit # DGEUL006	Oklahoma Blasting Permit # P-082	Missouri Users Registration Certificate # 7
Customer & Job: <u>Crestline Broken Arrow</u>		Date: <u>8-21-18</u>		
Blast Location: <u>Lat 36.039883 Long -95.771303</u>		Time: <u>12:57</u> ☐ A.M. ☒ P.M.		
Type of Material: <u>Lin Sh / Shale</u>		Stemming: Min. <u>8</u> (ft.) Max. <u>9</u> (ft.)		
No. of Holes: <u>57</u>		Type Stem: <u>1/2" Ch</u>		
Diameter: Min. <u>4</u> (in)		No. of Rows: <u>5</u>		
Depth: Min. <u>10</u> (ft.) Max. <u>12</u> (ft.)		Burden: Min. <u>9</u> (ft.)		
Subdrilling: <u>3</u> (ft.)		Spacing: Min. <u>10</u> (ft.)		
No. Decks/Hole: <u>1</u>		Maximum No. of Holes Per Delay: <u>2</u>		
Deck Separation: Min. <u>0</u> (ft.)		Max. Lbs./Delay of 8 ms. or greater: <u>28</u> (lbs.)		
Wt./Deck: Min. <u>10</u> (lbs.) Max. <u>14</u> (lbs.)		Powder Factor: <u>653 ÷ 1235</u> (lbs/vol) <u>0.6</u>		
Explosives	Size	Amount (lbs)	Detonators/Delay MS	Amount (qty)
ANFO / ANFO WR			<u>30' E2 RT 17/390</u>	<u>57</u>
Unigel / Unimax	<u>2x16</u>	<u>29 = 72</u>	<u>30' E2 RT 17/390</u>	<u>5</u>
Dyno AP /				
Cast Primer				
Bulk Emulsion		<u>781</u>	Det Cord - feet	
Other			Non-EI Shock Tube ft	<u>300</u>

Were Mats Used? ☐ Yes ☒ No
GPS of Hole #1 Lat 36.039883 Long -95.771303
Weather Clear Temp. 83°
Wind Direction SE Velocity 6-10
Type of initiation ☐ Elec. ☒ Non-electric
☐ Other Explain: None
Type of Machine/Circuit None

Scaled Distance
Distance to Closest Building 701'
Description of Closest Building House
Scaled Distance 701' ÷ 1.28 = 140 Ds = D/w
Seismograph Monitoring ☒ Yes ☐ No
Seismograph Reading PPV = 0.18 DB = 121
Seismograph Operator Kyle B (Print)
[Signature] (Sign)

Shot Results ☐ Good or Comments:
or comments

Seismograph 7380
GPS Location: Lat 36.0399 Long -95.7714

Remarks: Production (6.5' Avg depth) (6.5 x 10 x 9 = 27) x 57 = 1539 cu yd

Number of Individuals in blasting Crew: 4

Blaster-in-Charge

Customer Sign - off for quantity

X

Lic. #

1538

(Print)

(Sign)

Permittee The PEXCO Company LLC.

Fed. Permit Number 5-KS-045-33-3K-00028

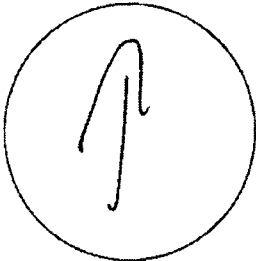
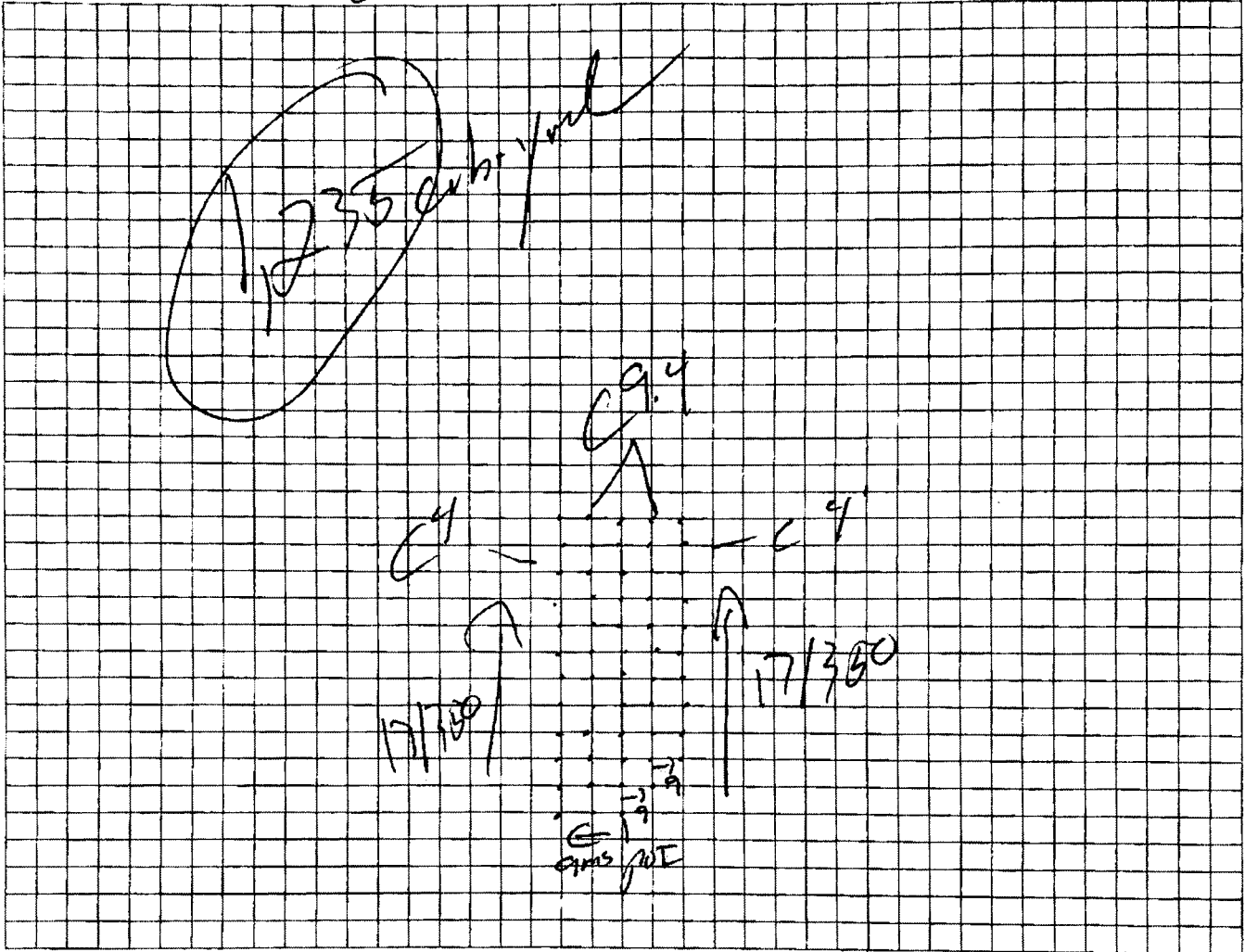
Time: 12:57 ☐ a.m. ☒ p.m.

Location: Lat 36.039883 Long -95.771302

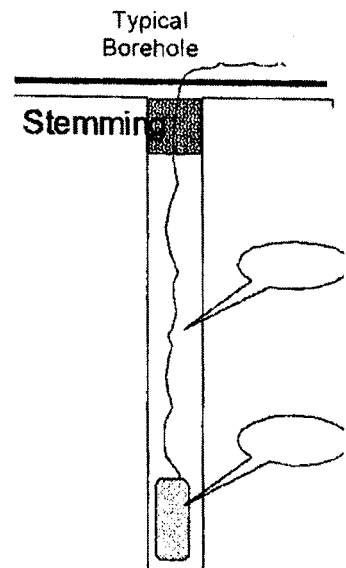
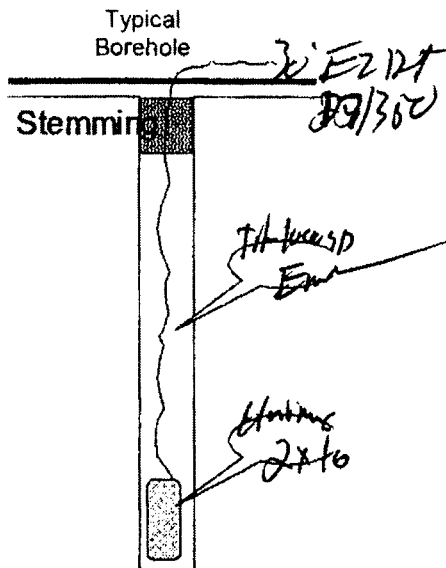
Date: 8-21-18

Customer & Job:

Croston Brake Hoses



Indicate North





The PEXCO Company, LLC.
6731 W. 121st Street - Suite # 216
Overland Park, Kansas 66209
Phone (913) 907-5022
Fax (913) 273-0661
E-Mail rpilshaw@pdb-kc.com



BLAST REPORT

A T F & E Permit #. 5-KS-045-33-3K-00028		Kansas Users Permit # DGEUL006	Oklahoma Blasting Permit # P-082	Missouri Users Registration Certificate # 7
Customer & Job: <u>Crescent Broken Arrow</u>		Date: <u>8-23-18</u>		
Blast Location: <u>Lat 36.039927 Long -95.771666</u>		Time: <u>3:48</u> ☐ A.M. ☒ P.M.		
Type of Material	<u>Cine Star</u>	Stemming	Min. <u>7</u> (ft.) Max. <u>8</u> (ft.)	
No. of Holes	<u>157</u>	Type Stem.	<u>1/2" Ch</u>	
Diameter	Min. <u>4</u> (in)	No. of Rows:	<u>1</u>	
Depth	Min. <u>10</u> (ft.) Max. <u>11</u> (ft.)	Burden	Min. <u>4</u> (ft.)	
Subdrilling	<u>3</u> (ft.)	Spacing	Min. <u>6</u> (ft.)	
No. Decks/Hole	<u>1</u>	Maximum No. of Holes Per Delay	<u>1</u>	
Deck Separation	Min. <u>0</u> (ft.)	Max. Lbs./Delay of 8 ms. or greater	<u>24</u> (lbs.)	
Wt./Deck	Min. <u>21</u> (lbs.) Max. <u>24</u> (lbs.)	Powder Factor	<u>3.5% : 1.395 (lbs/vol) 2.7</u>	

Explosives	Size	Amount (lbs)	Detonators/Delay MS	Amount (qty)
ANFO / ANFO WR /			<u>30' E2 117/360</u>	<u>157</u>
Unigel / Unimax	<u>2N/6</u>	<u>151 = 377 #</u>	<u>30' E2 TL 117/360</u>	<u>3</u>
Dyno AP /				
Cast Primer				
Bulk Emulsion		<u>3,521 #</u>		
Other				

Were Mats Used? ☐ Yes ☒ No		Scaled Distance
GPS of Hole # <u>Lat 36.039927 Long -95.771666</u>		Distance to Closest Building <u>399'</u>
Weather <u>Sunny</u> Temp. <u>83°</u>		Description of Closest Building <u>Home</u>
Wind Direction <u>S-E</u> Velocity <u>5-10</u>		Scaled Distance <u>399' / 24 = 109</u> Ds = <u>0.1w</u>
Type of initiation ☐ Elec. ☒ Non-electric		Seismograph Monitoring ☒ Yes ☐ No
☐ Other Explain: <u>None</u>		Seismograph Reading PPV = <u>0.23</u> DB = <u>120</u>
Type of Machine/Circuit <u>None</u>		Seismograph Operator <u>R. L. Co</u> (Print)
		<u>1492</u> (Sign)

Shot Results	Seismograph
☐ Good or Comments:	<u>2880</u>
or comments	GPS Location <u>Lat 36.03777 Long -95.77377</u>

Remarks: Production =

800' of stem track

Number of Individuals in blasting Crew: 4

Blaster-in-Charge

Customer Sign - off for quantity

X

Lic. #

1558

(Print)

(Sign)

Permittee The PEXCO Company LLC.

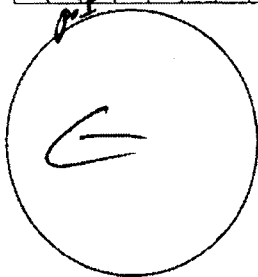
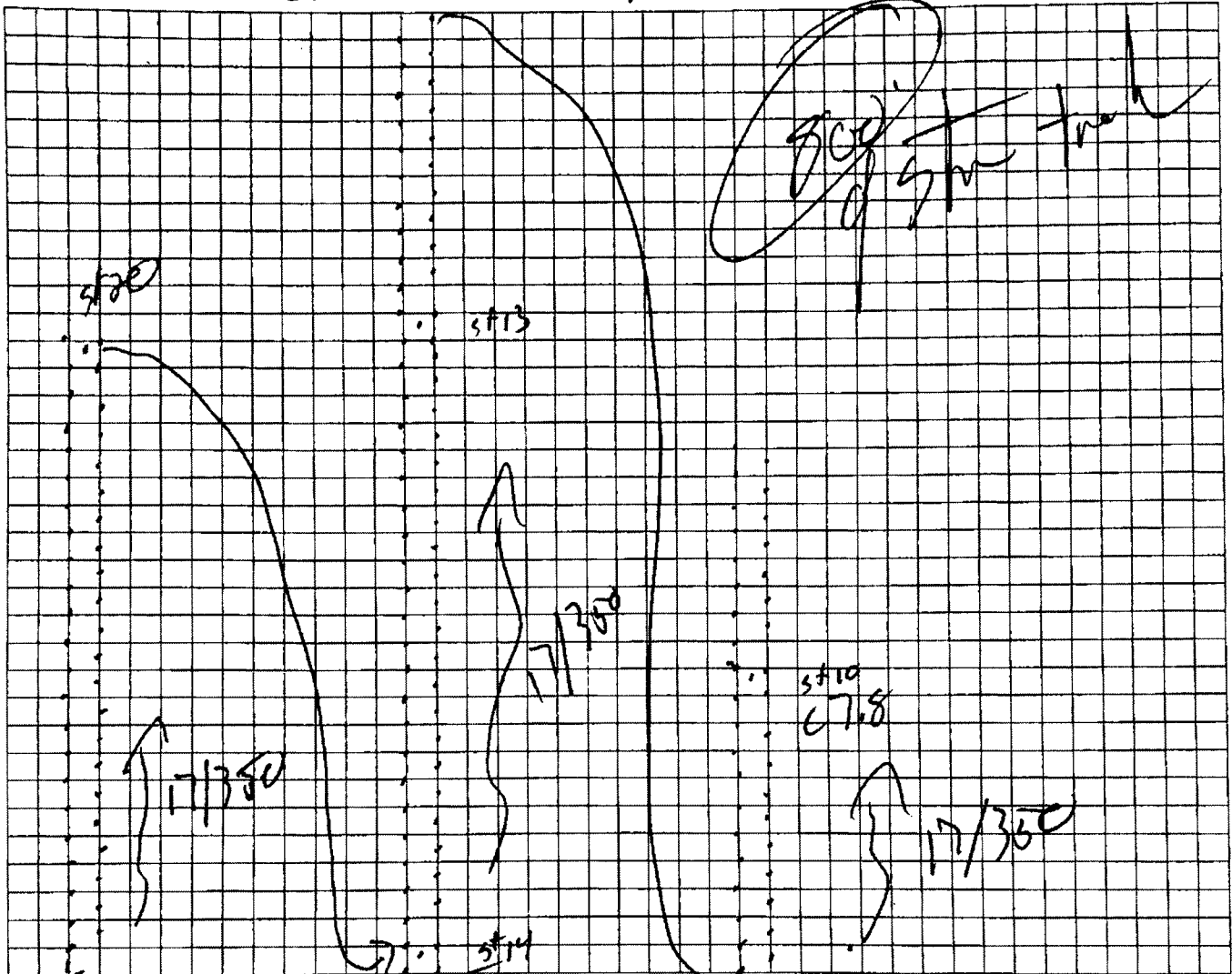
Fed. Permit Number 5-KS-045-33-3K-00028

Time: 3:48 ☐ a.m. ☒ p.m.

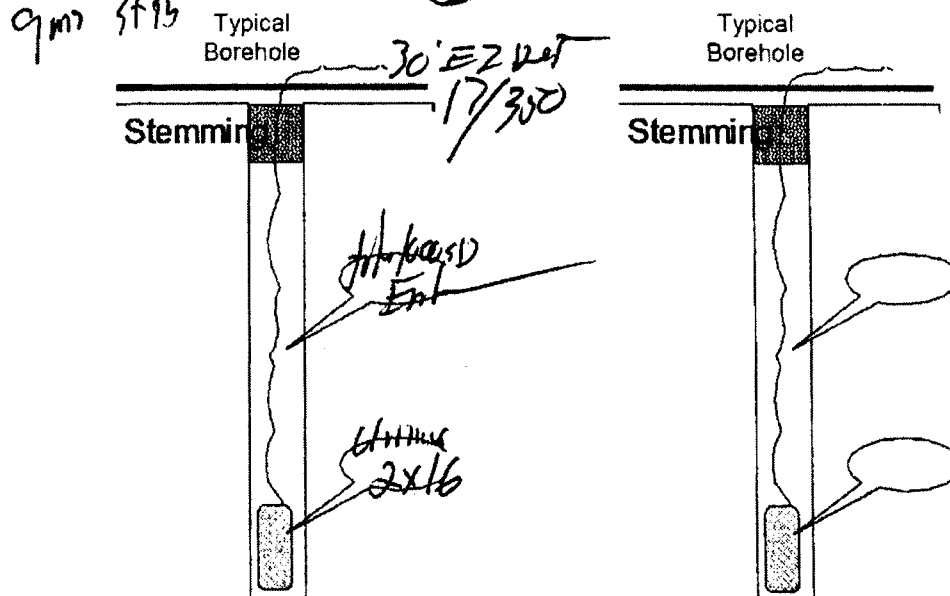
Location: Lat +36.62422 Long -95.771666

Date: 8-23-18

Customer & Job: Creslow Broken Holes



Indicate North



ATF & E Permit #. 5-KS-045-33K-00028		Kansas Users Permit # DGEUL006	Oklahoma Blasting Permit # P-082	Missouri Users Registration Certificate # 7
Customer & Job: <u>Crossland Broken Arrow</u>		Date: <u>8-28-18</u>		
Blast Location: <u>Lat 36.039427 Long 95.77666</u>		Time: <u>10:15</u> ☒ A.M. ☐ P.M.		
Type of Material	<u>Crusher</u>	Stemming Min. <u>8</u> (ft.) Max. <u>8</u> (ft.)		
No. of Holes	<u>21</u>	Type Stem. <u>1 1/2" CL</u>		
Diameter	Min. <u>4</u> (in)	No. of Rows: <u>3</u>		
Depth	Min. <u>10</u> (ft.) Max. <u>10</u> (ft.)	Burden Min. <u>3</u> (ft.)		
Subdrilling	<u>5</u> (ft.)	Spacing Min. <u>6</u> (ft.)		
No. Decks/Hole	<u>1</u>	Maximum No. of Holes Per Delay <u>1</u>		
Deck Separation	Min. <u>0</u> (ft.)	Max. Lbs./Delay of 8 ms. or greater <u>10</u> (lbs.)		
Wt./Deck	Min. <u>7.5</u> (lbs.) Max. <u>10</u> (lbs.)	Powder Factor <u>332 ÷ 140</u> (lbs/vol) <u>2.3</u>		
Explosives		Size	Amount (lbs)	Detonators/Delay MS
ANFO / ANFO WR /				Amount (qty)
Unigel / Unimax / <u>2x16</u>		<u>25</u>	<u>62</u> #	<u>30' E2 D + 1730</u>
Dyno AR /				<u>20' E2 TL</u>
Cast Primer				
Bulk Emulsion				
Other				
				Det Cord - feet
				Non-El Shock Tube ft

Were Mats Used? ☐ Yes ☒ No
GPS of Hole # Vt+36.03 on 127 Log- 95.771666
Weather Smr Temp. 78°
Wind Direction SE Velocity 5-10
Type of initiation ☐ Elec. ☒ Non-electric
☐ Other Explain: _____
Type of Machine/Circuit none

Scaled Distance
Distance to Closest Building 349
Description of Closest Building Home
Scaled Distance 349/10 = 183 $D_s = D/w$
Seismograph Monitoring ☒ Yes ☐ No
Seismograph Reading PPV = 0.17 DB = 119
Seismograph Operator Kyle Green (Print)
SG (Sign)

Shot Results or comments ☐ Good or Comments:

Seismograph
GPS Location: Lat 36.03780 Long -95.77388

Remarks: Production =

Number of Individuals in blasting Crew:

Blaster-in-Charge

Customer Sign – off for quantity

X

Lic. #

Permitee The PEXCO Company LLC.

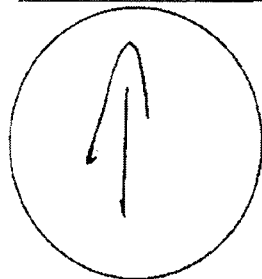
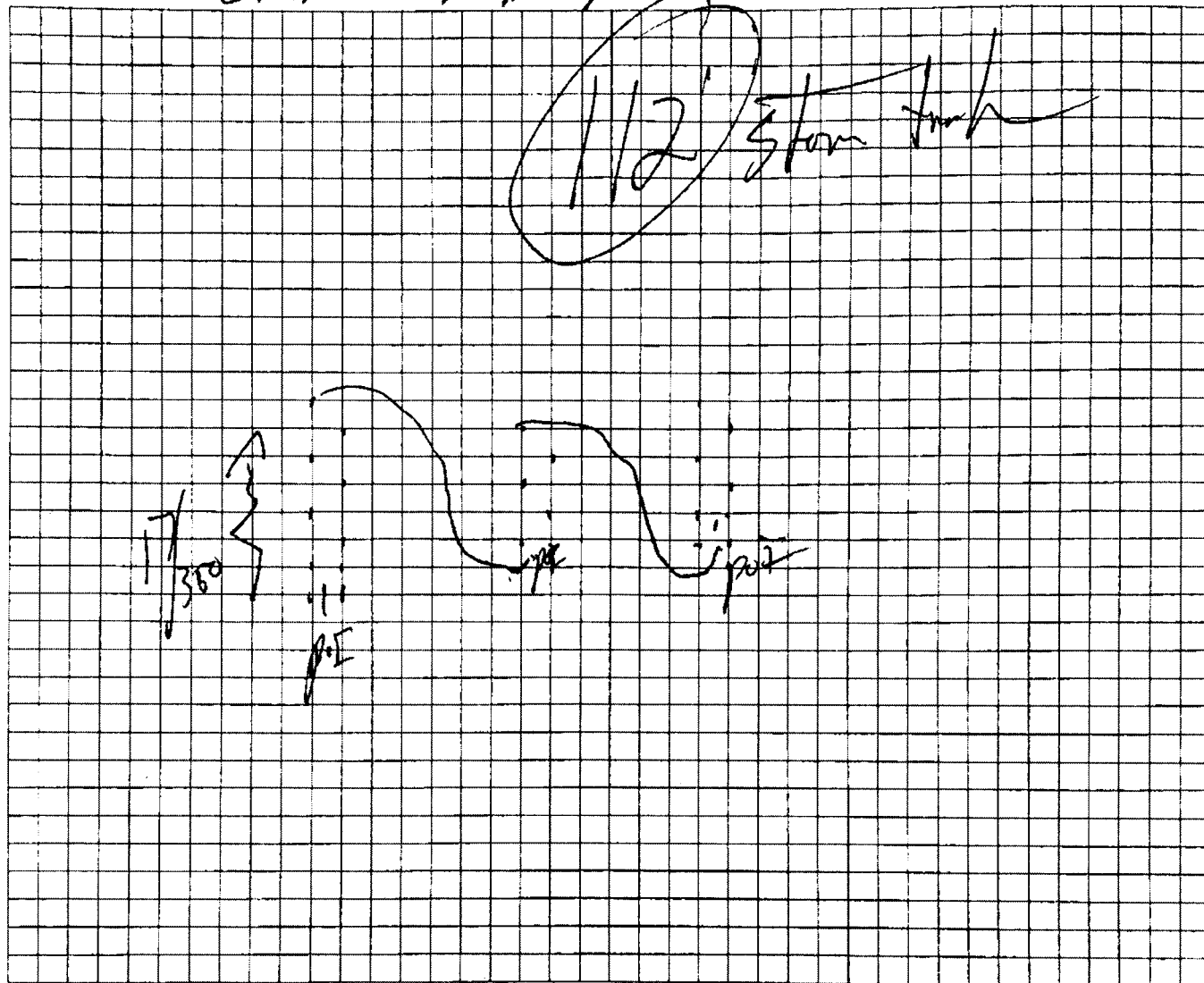
Fed. Permit Number 5-KS-045-33-3K-00028

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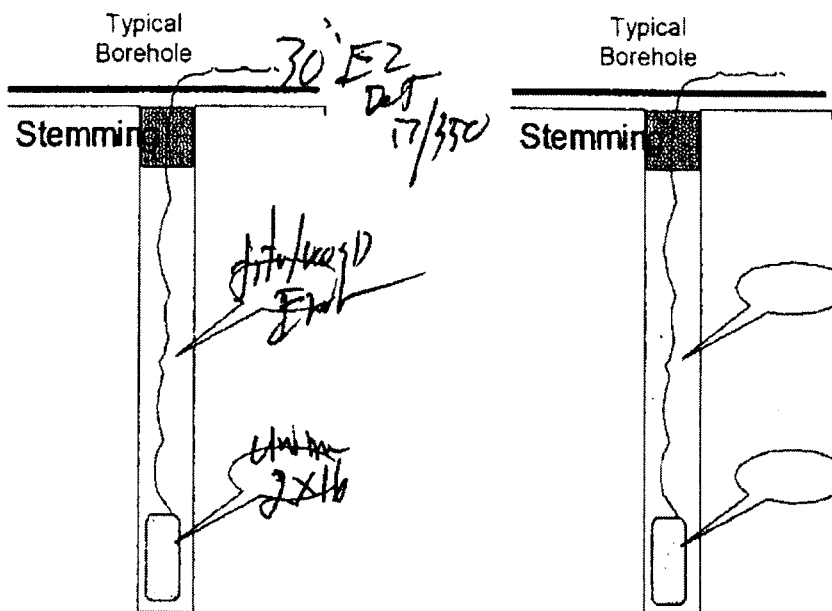
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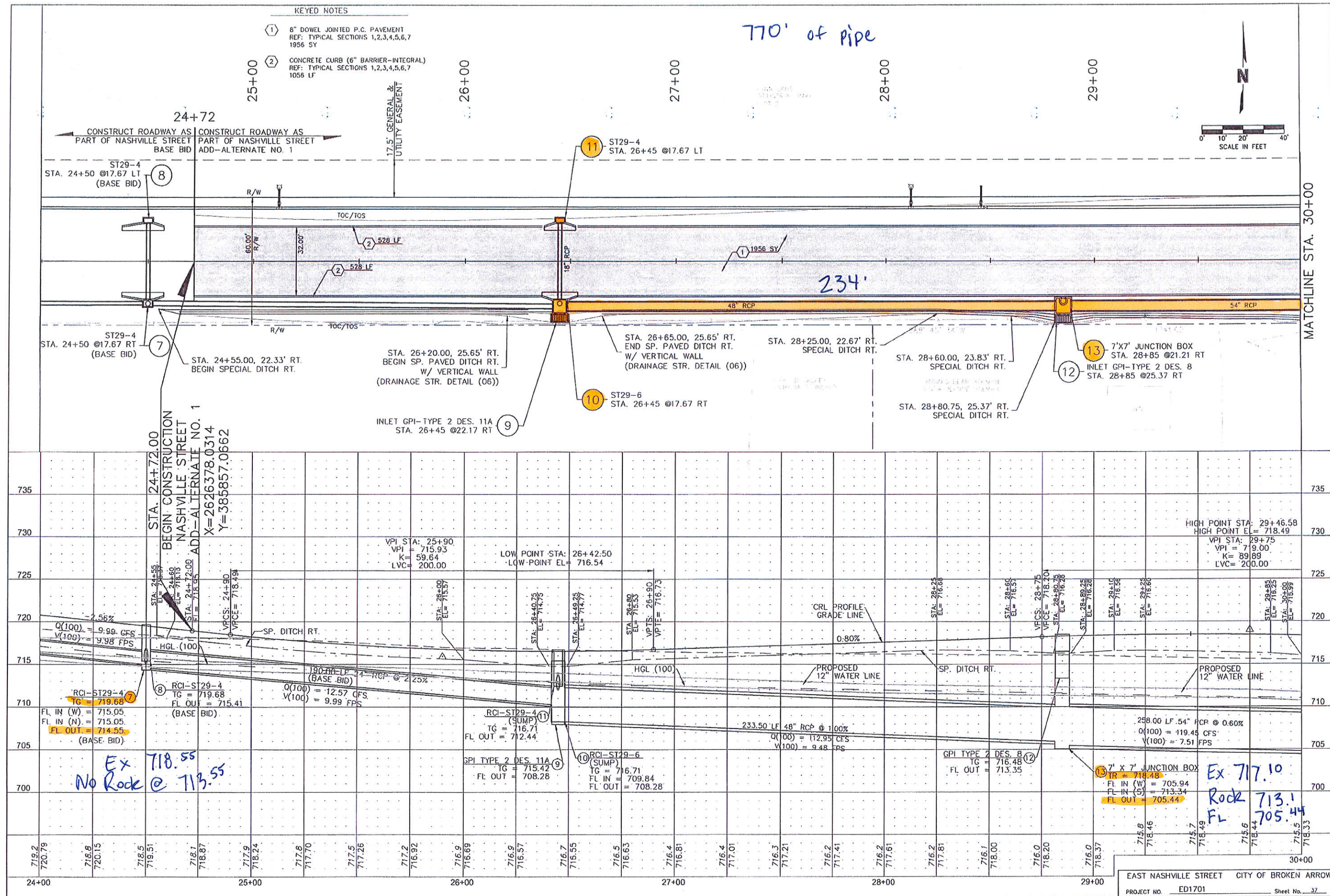
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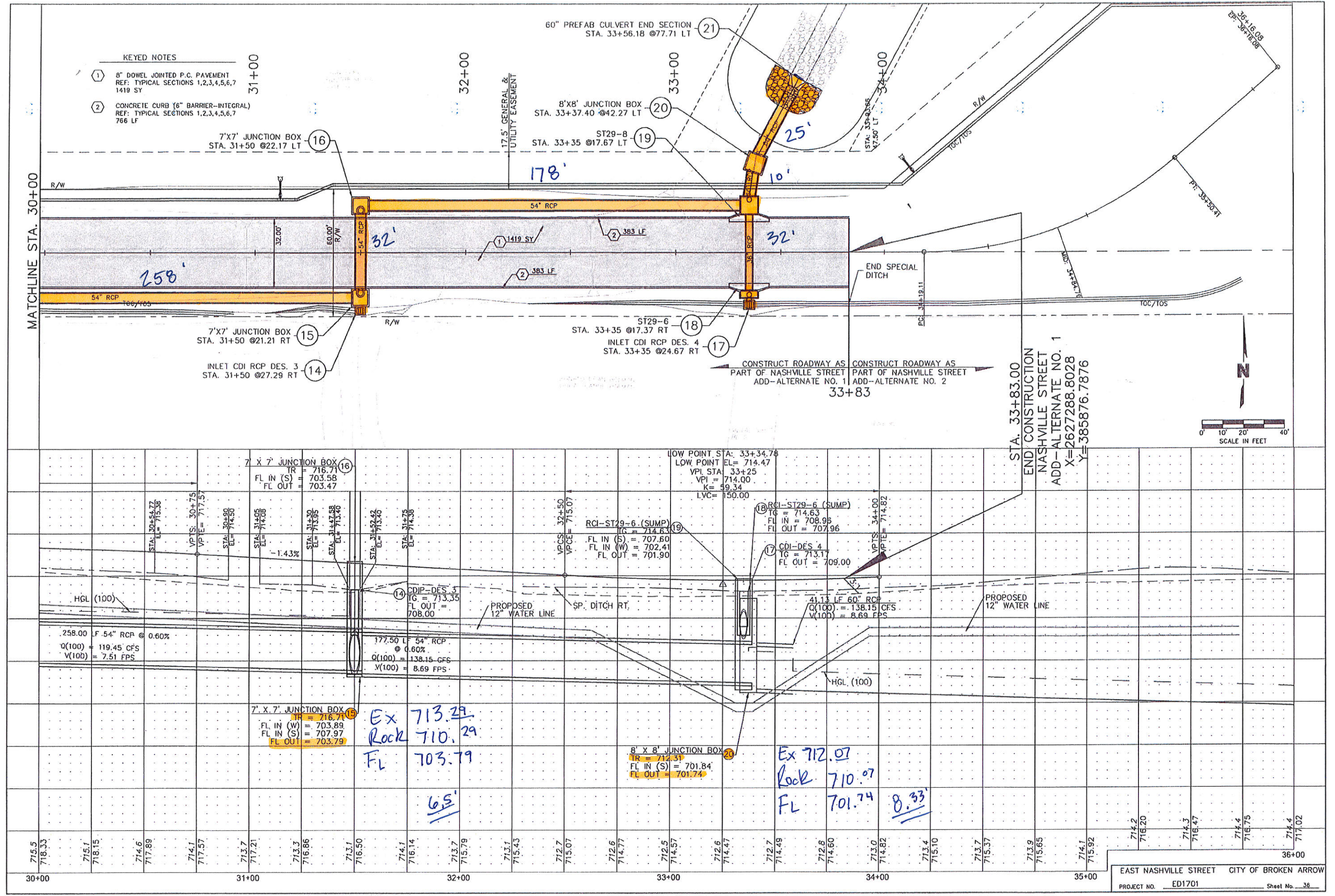
Customer & Job: Crashed Branch Arroyo



Indicate North







DWG: F:\2017\0501-1000\017-0523\40-Design\AutoCAD\Final Plans\Sheets\T_RPPO5_70523.dwg
DATE: Feb 26, 2018 1:39pm
USER: rforsonder
V_XTOPO_70523
T_PALGN_DRAIN_70523
T_PDRAIN_70523
T_PWATER_70523
T_PBASE_70523
XREFS: T_BRDR_PP

