

#### Legend

- MAJOR CONTOUR - PROPOSED
- MINOR CONTOUR - PROPOSED
- - - MAJOR CONTOUR - EXISTING
- - - MINOR CONTOUR - EXISTING
- FENCE - EXISTING
- FENCE - PROPOSED

#### General Notes:

All materials and workmanship shall be in accordance with the La Plata County design standards. When requirements in the construction specifications or design standards conflict the more stringent requirement shall apply.

The contractor is responsible for obtaining all required permits prior to the commencement of any work on the project.

An Excavation Permit for Work in the Public Ways is required for all work in the public right-of-way.

The contractor shall be responsible for notifying the developer of any problems in conforming to the approved plans for any element of the proposed improvements prior to its construction.

The developer shall be responsible during construction activities to resolve construction problems due to changed conditions or design errors encountered by the contractor during the progress of any portion of the proposed work. If, in the opinion of the construction observer, the modifications proposed by the developer to the approved plans involve significant changes to the character of the work or to future contiguous public or private improvements, the developer shall be responsible for submitting revised plans to the appropriate agencies for approval prior to any further construction related to that portion of the work. Any improvements constructed not in accordance with the approved plans or the approved revised plans, shall be removed and the improvements shall be reconstructed according to the approved plans.

The contractor shall contact the appropriate agencies for location of underground gas, electric, and telephone utilities at least 48 hours prior to commencement of construction.

The contractor shall be responsible for providing a copy of "RECORD DRAWING" plans to the appropriate agencies prior to final acceptance of work.

The contractor shall notify the construction observer at least 24 hours prior to desired inspection.

The contractor shall reset all Survey Monuments disturbed during construction within 60 days of project completion.

The contractor shall be solely and completely responsible for conditions at and adjacent to the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours.

The duty of the County to conduct construction review of the contractor's performance is not intended to include review of the adequacy of the contractor's safety measures in, on, or near the construction site.

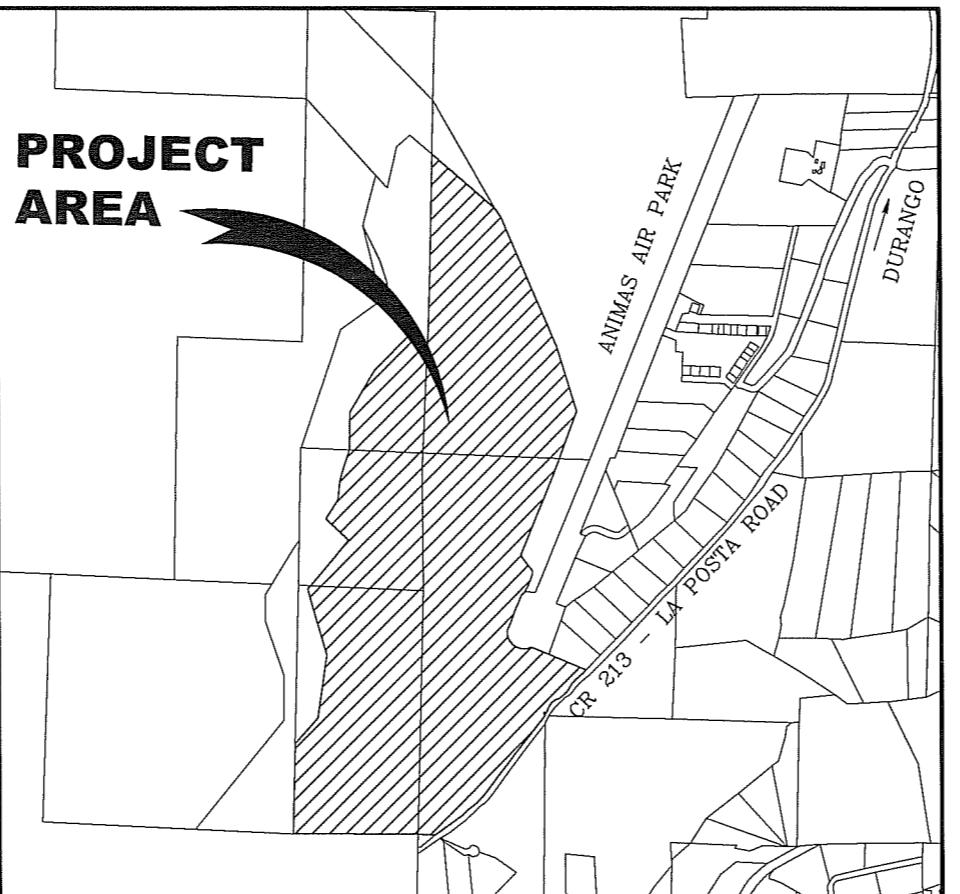
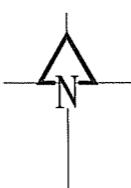
Field conditions may exist that require changes to the drawings. If such conditions are encountered, standard engineering practices shall be followed.

#### Street Construction Notes:

The contractor shall provide all lights, signs, barricades, flagmen or other devices necessary to provide for public safety in accordance with the current Manual on Uniform Traffic Control Devices.

The contractor shall provide ingress and egress to private property adjacent to the work throughout the period of construction and prior to beginning work shall obtain written agreement from the affected property owners impacted by this access.

## ANIMAS GLACIER GRAVEL PIT WEEMINUCHE CONSTRUCTION AUTHORITY



VICINITY MAP

24x36 1" = 500'  
11x17 1" = 1000'

#### Grading and Drainage Notes:

Grading shown is for rough grading only. Changes may be necessary to bring plan into conformance with approved Final Drainage Plan and Site Plan.

A water truck, if called for by the construction observer, will be provided to keep wind erosion in check.

Settlement of soil accumulation beyond the property boundaries or construction limits will be prevented.

Any construction debris or mud tracking in the public right-of-way shall be removed immediately by the contractor. The contractor shall immediately fix any excavations or excessive pavement failures caused by the development and shall properly barricade the site until construction is complete. Failure by the contractor to correct any of the above within 48 hours of written notice by the inspecting agency shall cause the inspecting agency to issue a stop work order and/or do the work and make a claim against the letter of credit for any cost incurred by the agency.

Areas being disturbed by the grading shall be reseeded with native vegetation or as approved on the Storm Water Management Plan.

A Storm Water Management plan shall be included as part of grading plans for disturbed areas greater than one-half acre.

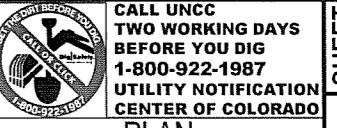
#### SHEET INDEX

PROJECT DATA SHEET  
SITE AND GRADING PLANS  
PLAN & PROFILE  
DETAILS & TYPICAL SECTIONS  
CROSS SECTIONS

SHEET PD-1  
SHEET O-1, O-2  
SHEET PR-1 TO PR-6  
SHEET D-1, D-2  
SHEET XS-1 TO XS-9

#### Note:

The plans were checked for general conformance with La Plata County Standards. At the time of construction, field conditions may be encountered that will require additional drawings or consideration.



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PLAN

SHEET  
PD-1  
1  
OF  
X

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Civil Engineering Services  
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Durango, Colorado 81301  
Phone: (970) 385-4546  
Fax: (970) 385-4502

**ANIMAS GLACIER GRAVEL PIT  
PROJECT DATA SHEET**

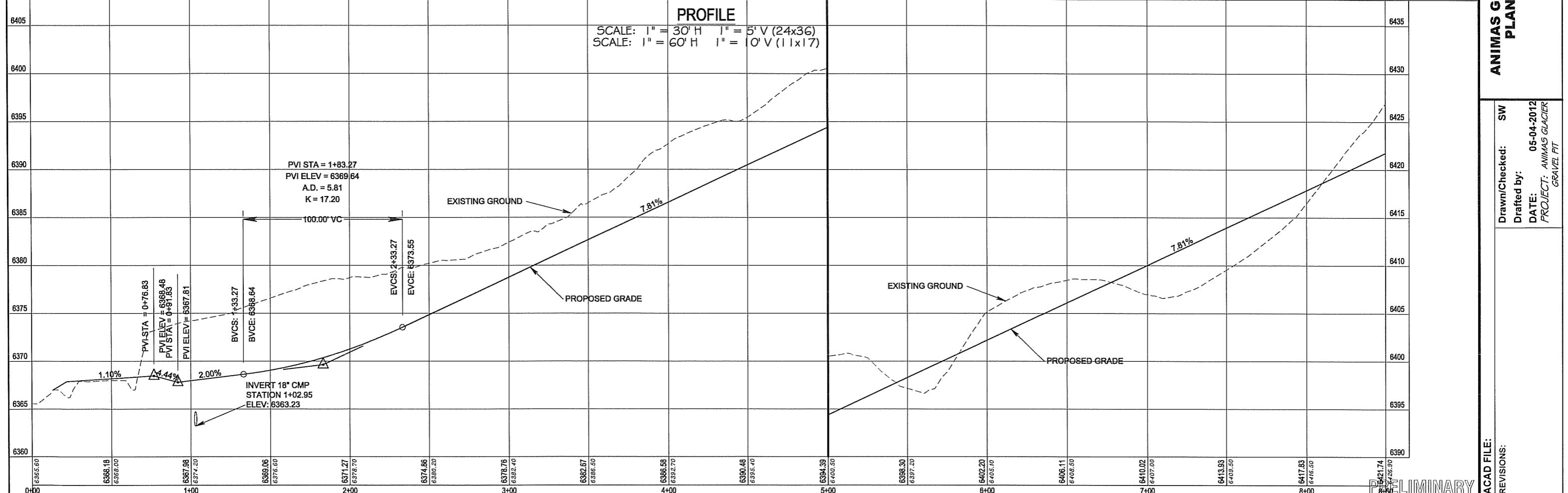
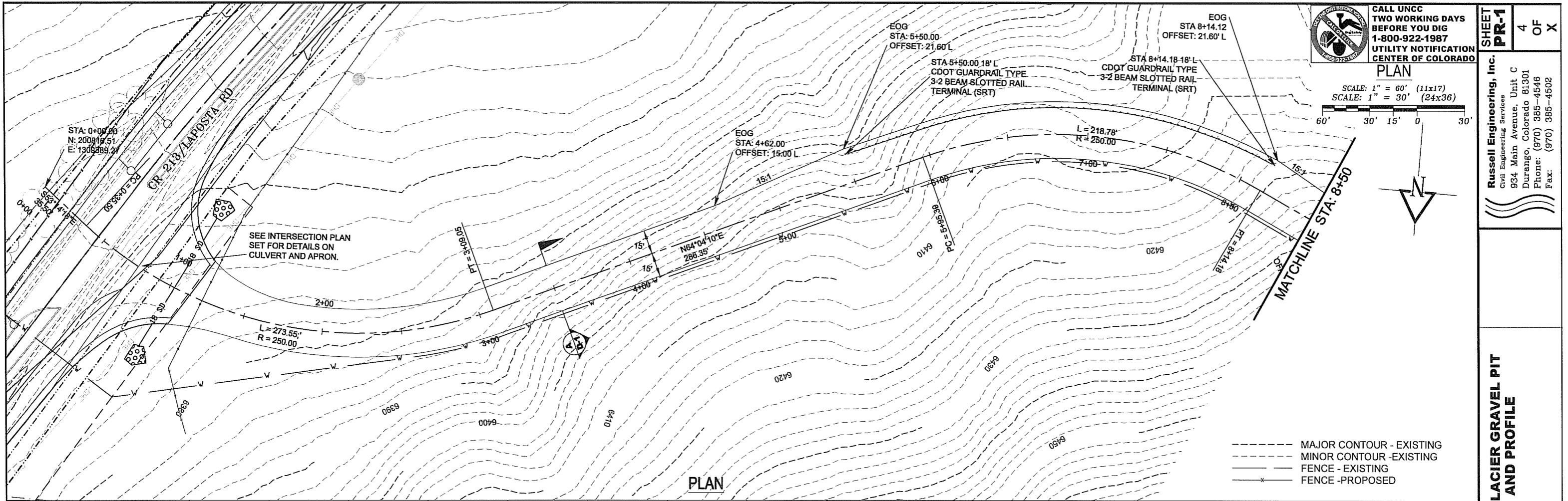
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GRAVEL PIT

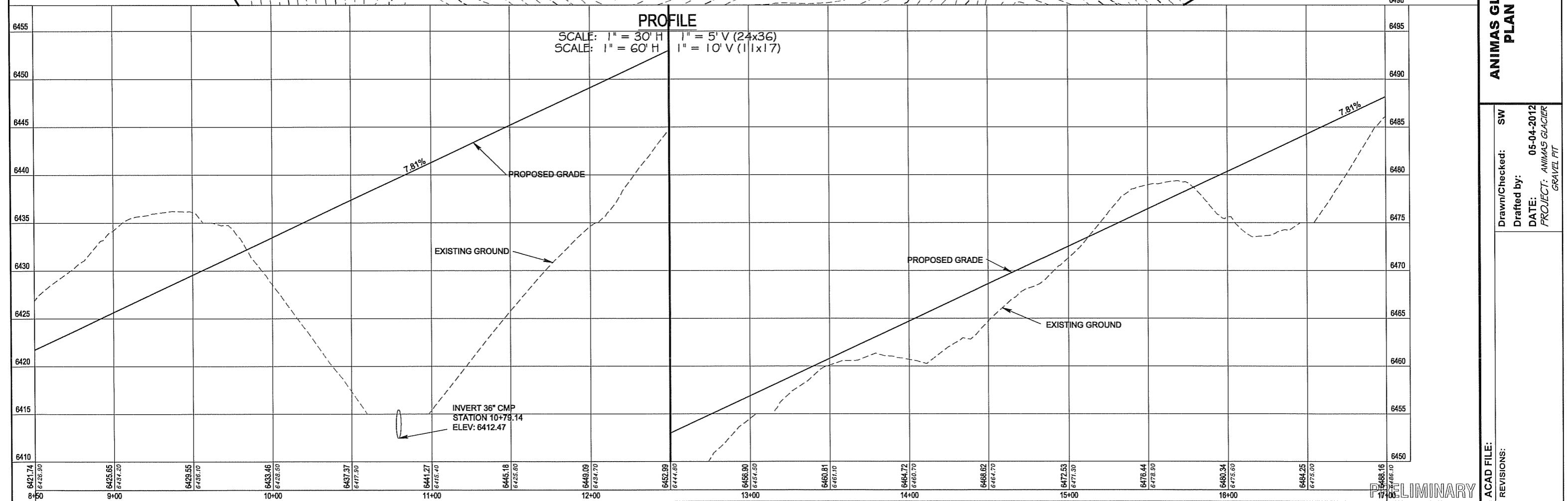
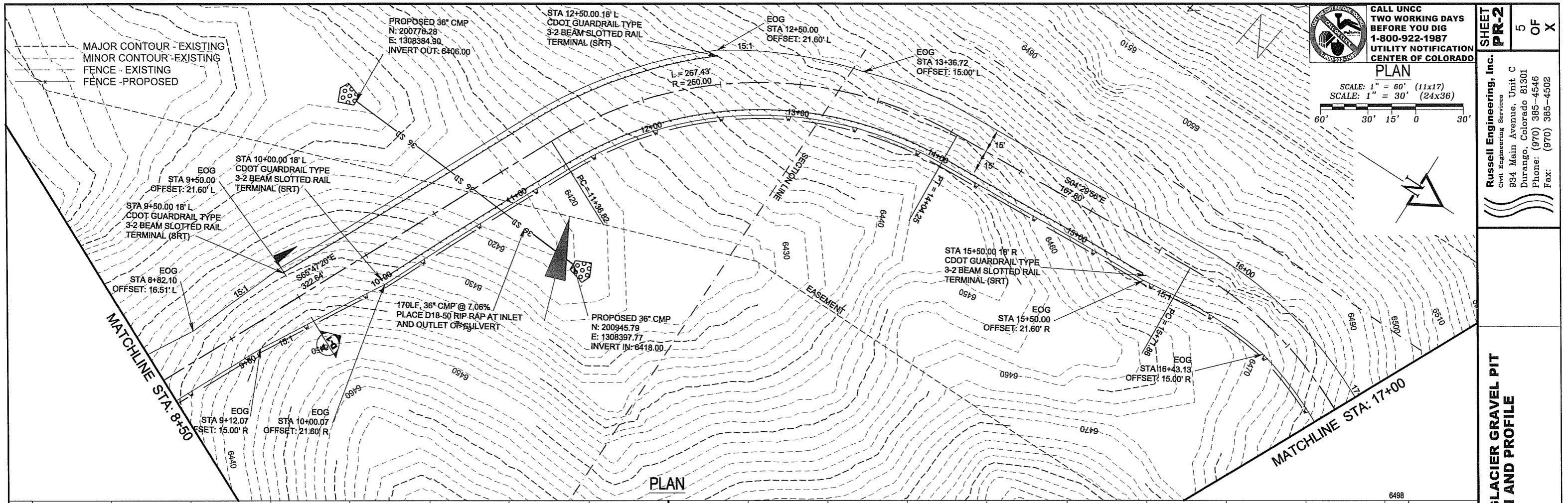
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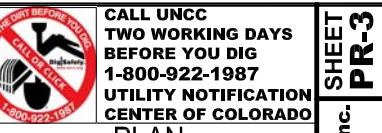
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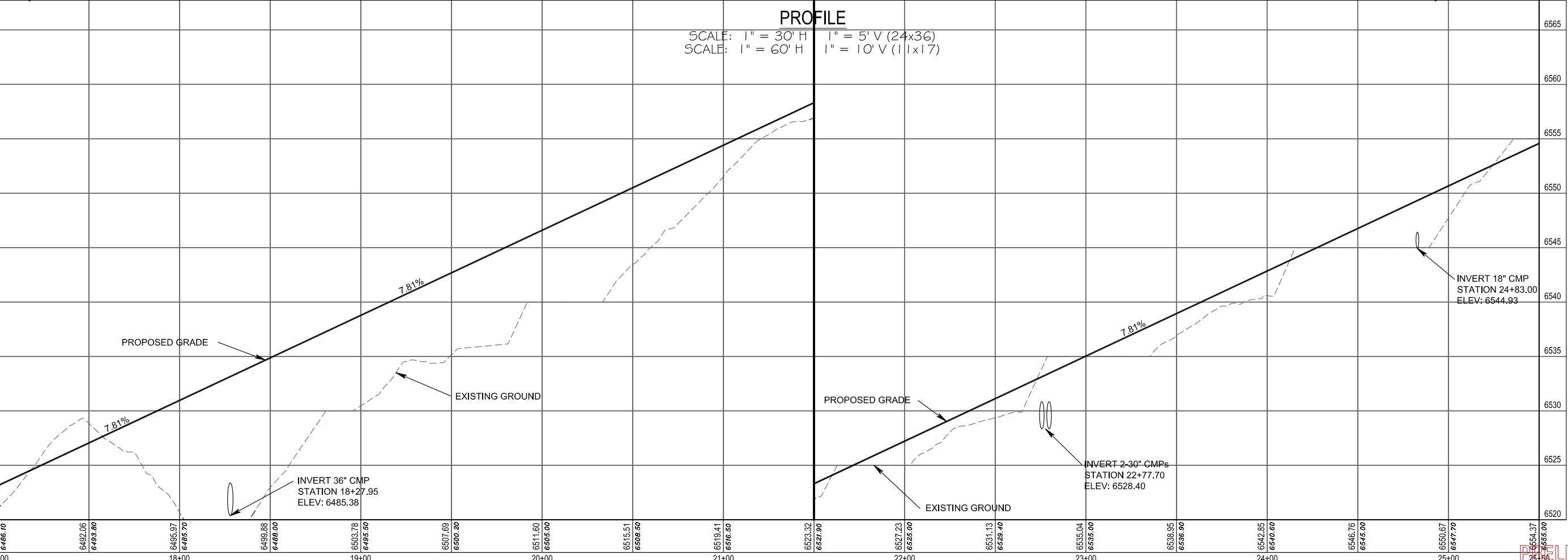
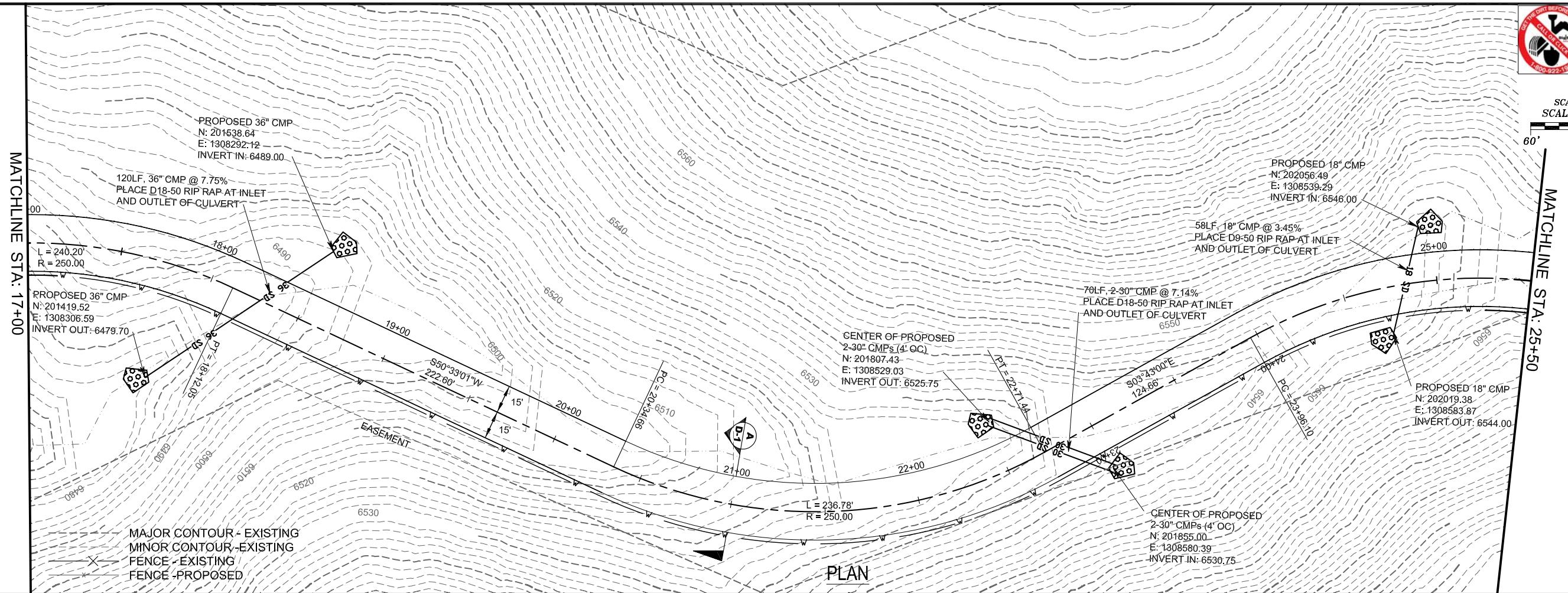
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SCALE: 1" = 30' (24x36)

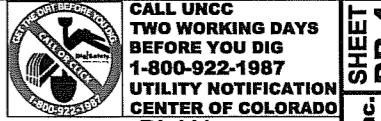
60' 30' 15' 0 30'

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**SHEET PR-3**





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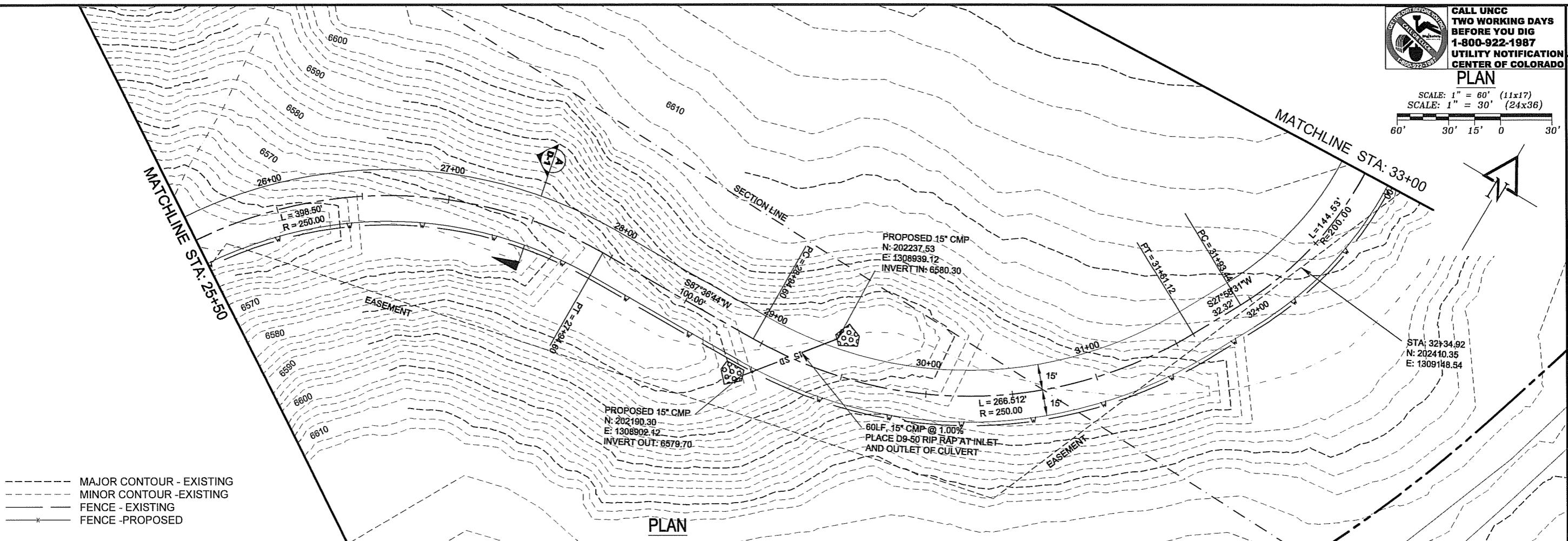
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MATCHLINE STA: 33+00

L=144.53'  
R=220.00'

SHEET  
PR-4  
7  
OF  
X

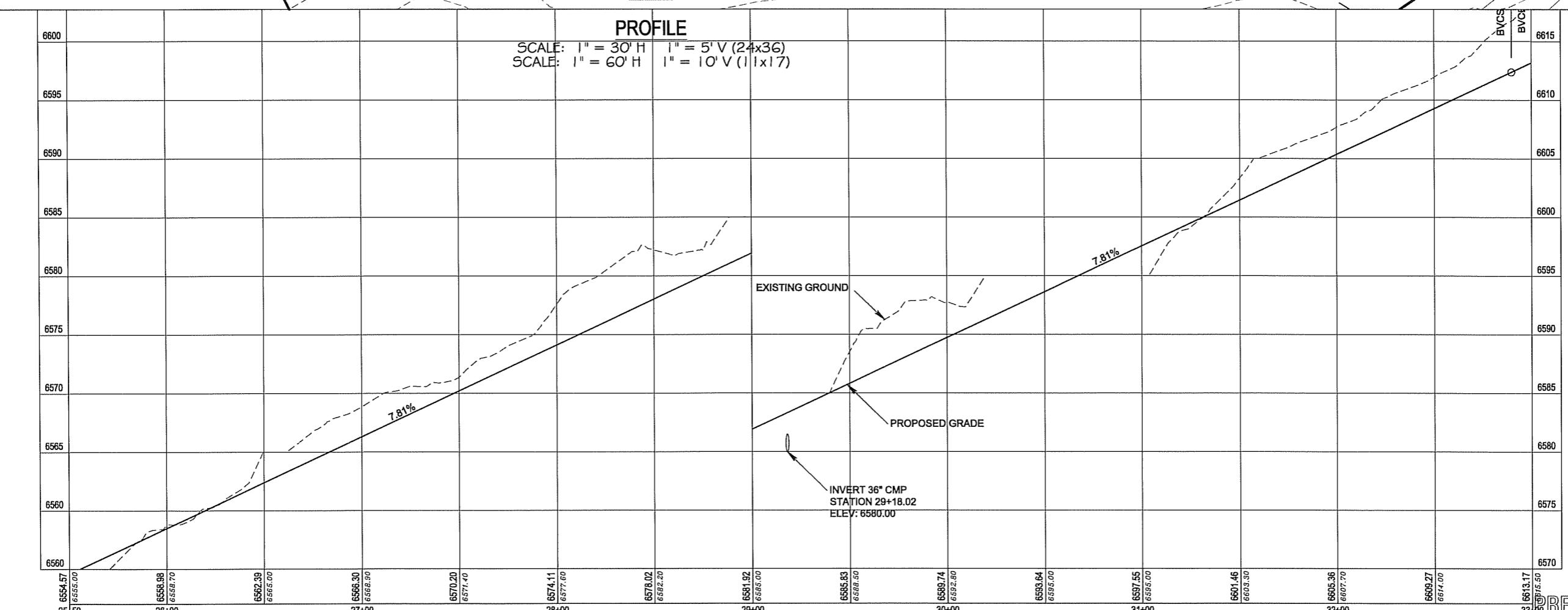
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**ANIMAS GLACIER GRAVEL PIT  
PLAN AND PROFILE**

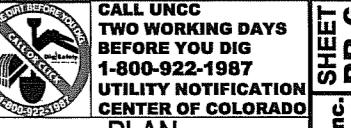
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**PLAN**

SCALE: 1" = 60' (11x17)  
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60' 30' 15' 0 30'

60' 30' 15' 0 30'

60' 30' 15' 0 30'

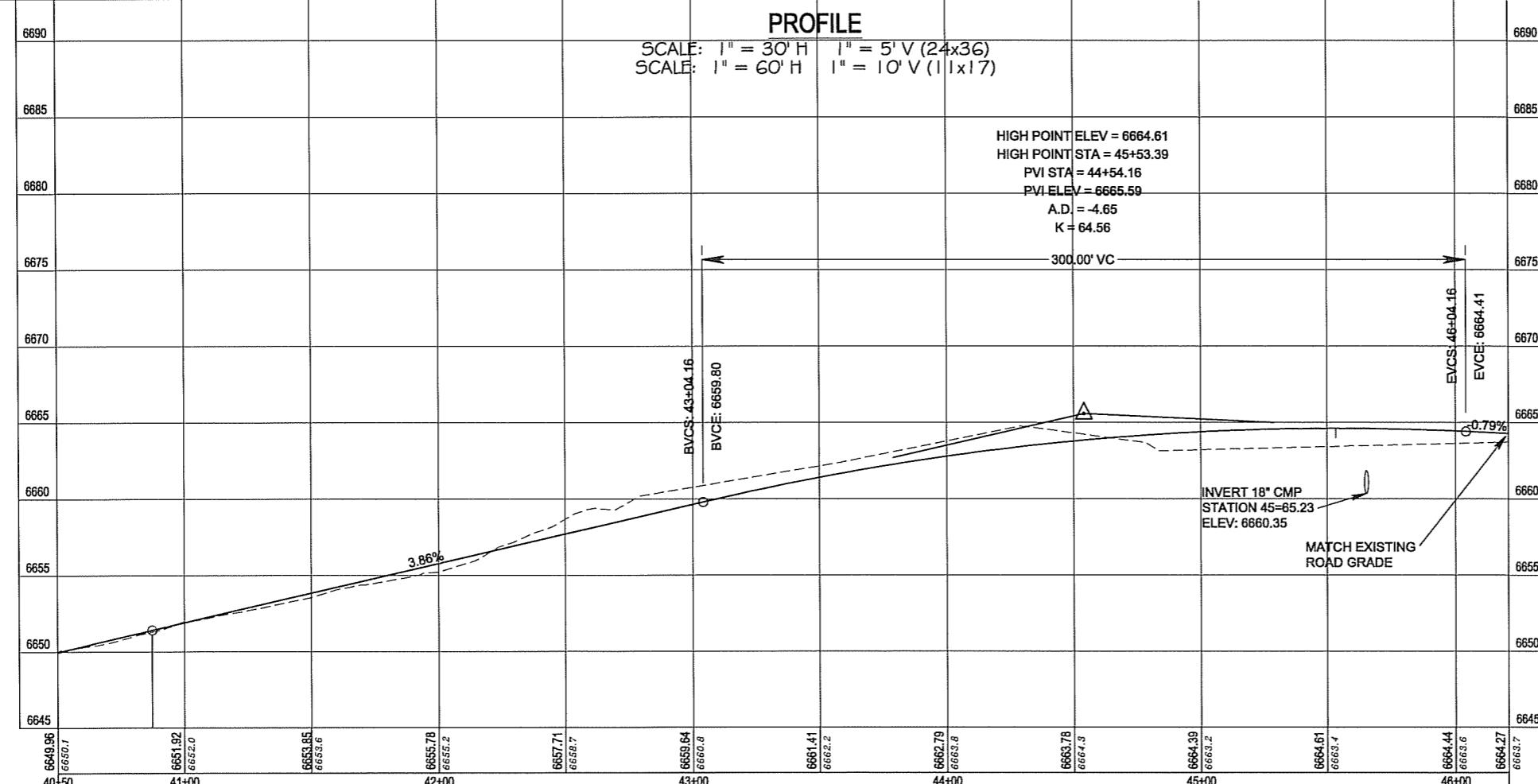
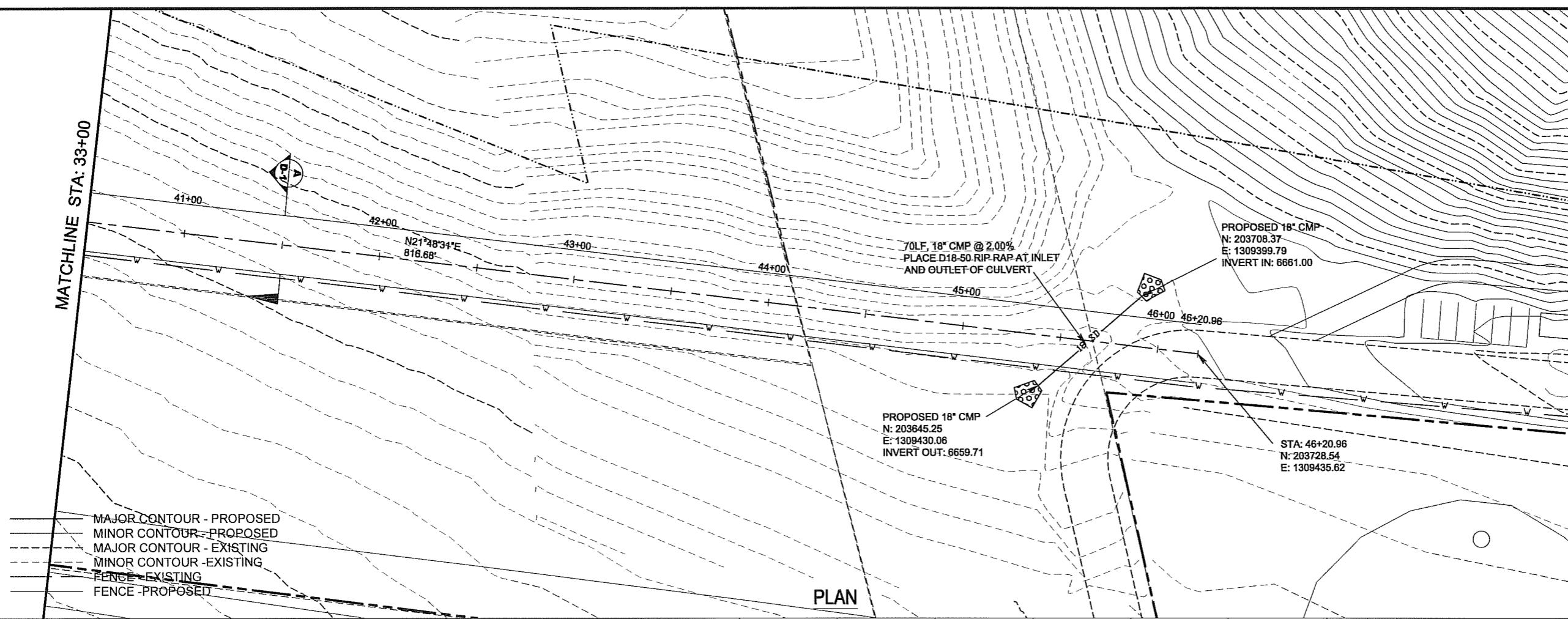
**Russell Engineering, Inc.**  
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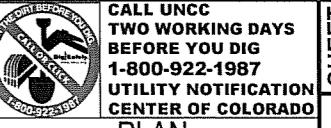
**9**  
**OF**

**X**

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MATCHLINE STA: 33+00



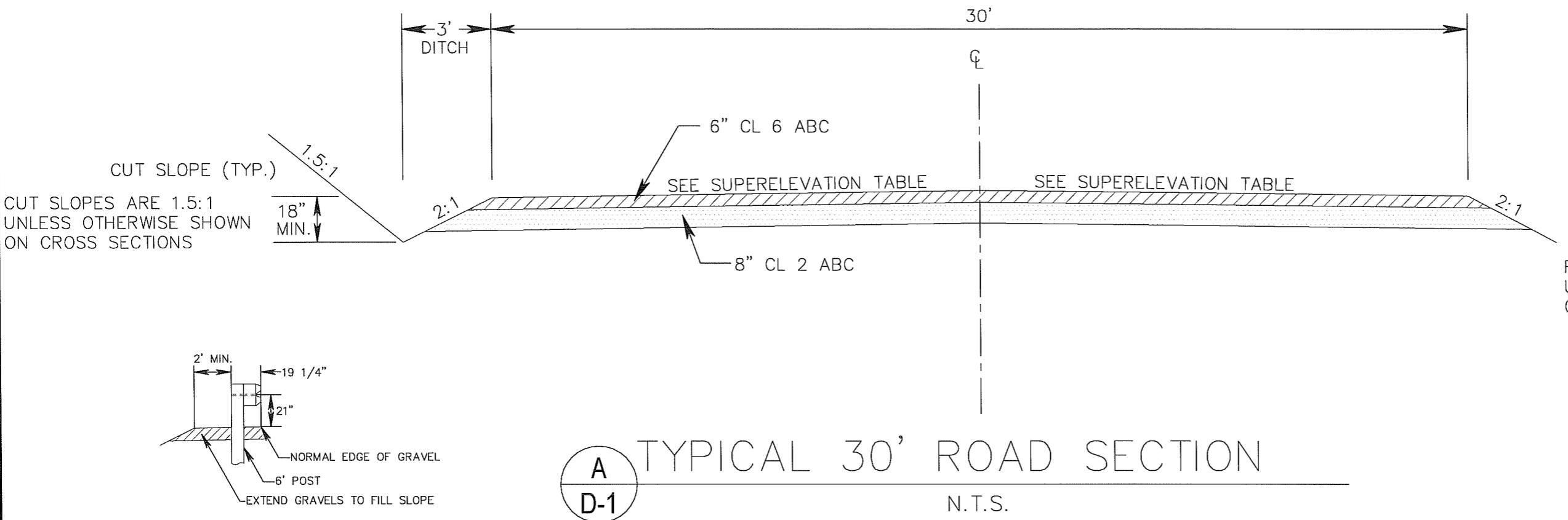


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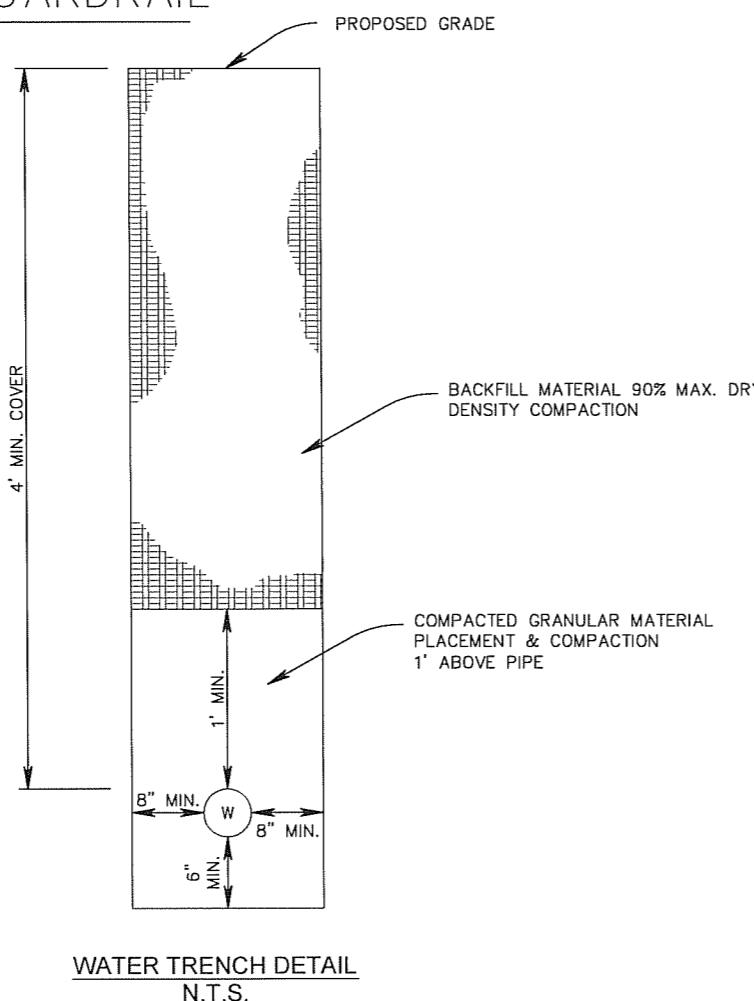
**SHEET D-1**  
**10 OF X**

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NORMAL ROADSIDE INSTALLATION  
WHEN FILL REQUIRES GUARDRAIL

N.T.S.



Main Access Road Super Elevation			
Section	Station	LEFT	RIGHT
PC	0+35.50	-4.00%	-4.00%
Curve	0+50.00	-4.00%	-4.00%
Curve	1+00.00	-4.00%	-4.00%
Curve	1+50.00	-4.00%	-4.00%
Curve	2+00.00	-4.00%	-4.00%
Curve	2+50.00	-4.00%	-4.00%
Curve	3+00.00	-4.00%	-4.00%
PT	3+09.05	-4.00%	-4.00%
Tangent	3+50.00	-3.64%	-0.72%
Tangent	3+59.05	-2.00%	0.00%
Tangent	4+00.00	-2.00%	1.64%
Tangent	4+09.05	-2.00%	2.00%
Tangent	4+50.00	-2.00%	2.00%
Tangent	4+95.39	-2.00%	2.00%
Tangent	5+00.00	-1.82%	2.00%
Tangent	5+45.39	0.00%	2.00%
Tangent	5+50.00	0.37%	2.18%
PC	5+95.39	4.00%	4.00%
Curve	6+00.00	4.00%	4.00%
Curve	6+50.00	4.00%	4.00%
Curve	7+00.00	4.00%	4.00%
Curve	7+50.00	4.00%	4.00%
Curve	8+00.00	4.00%	4.00%
PT	8+14.18	4.00%	4.00%
Tangent	8+50.00	2.59%	2.59%
Tangent	8+64.18	2.00%	2.00%
Tangent	9+00.00	-0.86%	2.00%
Tangent	9+14.18	-2.00%	2.00%
Tangent	9+50.00	-2.00%	2.00%
Tangent	10+00.00	-2.00%	2.00%
Tangent	10+36.82	0.95%	2.00%
Tangent	10+50.00	2.00%	2.00%
Tangent	10+86.82	2.00%	2.00%
Tangent	11+00.00	2.53%	2.53%

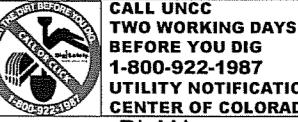
Main Access Road Super Elevation			
Section	Station	LEFT	RIGHT
Curve 1	PC 11+36.82	4.00%	4.00%
Curve 1	11+50.00	4.00%	4.00%
Curve 1	12+00.00	4.00%	4.00%
Curve 1	12+50.00	4.00%	4.00%
Curve 1	13+00.00	4.00%	4.00%
Curve 1	13+50.00	4.00%	4.00%
Curve 1	14+00.00	4.00%	4.00%
Curve 1	14+04.25	4.00%	4.00%
Curve 2	Tangent 14+50.00	2.17%	2.17%
Curve 2	14+59.05	2.00%	2.00%
Curve 2	15+00.00	2.00%	2.00%
Curve 2	15+21.86	2.00%	2.00%
Curve 2	15+50.00	3.13%	3.13%
Curve 2	15+71.86	4.00%	4.00%
Curve 3	Tangent 16+00.00	4.00%	4.00%
Curve 3	16+50.00	4.00%	4.00%
Curve 3	17+00.00	4.00%	4.00%
Curve 3	17+50.00	4.00%	4.00%
Curve 3	18+00.00	4.00%	4.00%
Curve 3	18+12.05	4.00%	4.00%
Curve 4	PC 18+50.00	-0.55%	2.48%
Curve 4	18+62.05	-2.00%	2.00%
Curve 4	19+00.00	-2.00%	2.00%
Curve 4	19+50.00	-2.00%	2.00%
Curve 4	19+84.66	-2.00%	2.00%
Curve 4	20+00.00	-2.64%	-2.16%
Curve 5	PC 20+34.66	-4.00%	-4.00%
Curve 5	20+50.00	-4.00%	-4.00%
Curve 5	21+00.00	-4.00%	-4.00%
Curve 5	21+50.00	-4.00%	-4.00%
Curve 5	22+00.00	-4.00%	-4.00%
Curve 5	22+50.00	-4.00%	-4.00%
Curve 5	22+71.44	-4.00%	-4.00%

**ANIMAS GLACIER GRAVEL PIT DETAILS & TYPICAL SECTIONS**

Drawn/Checked:	SW
Drafted by:	05-04-2012
DATE:	PROJECT: ANIMAS GLACIER GRAVEL PIT

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REVISIONS:

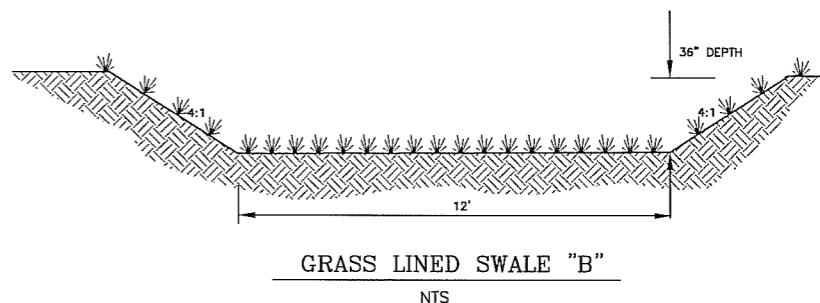
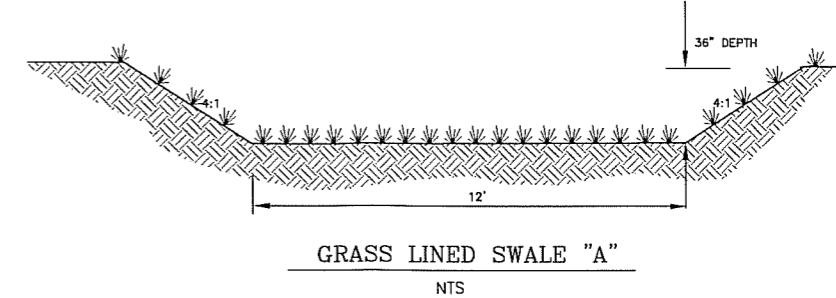
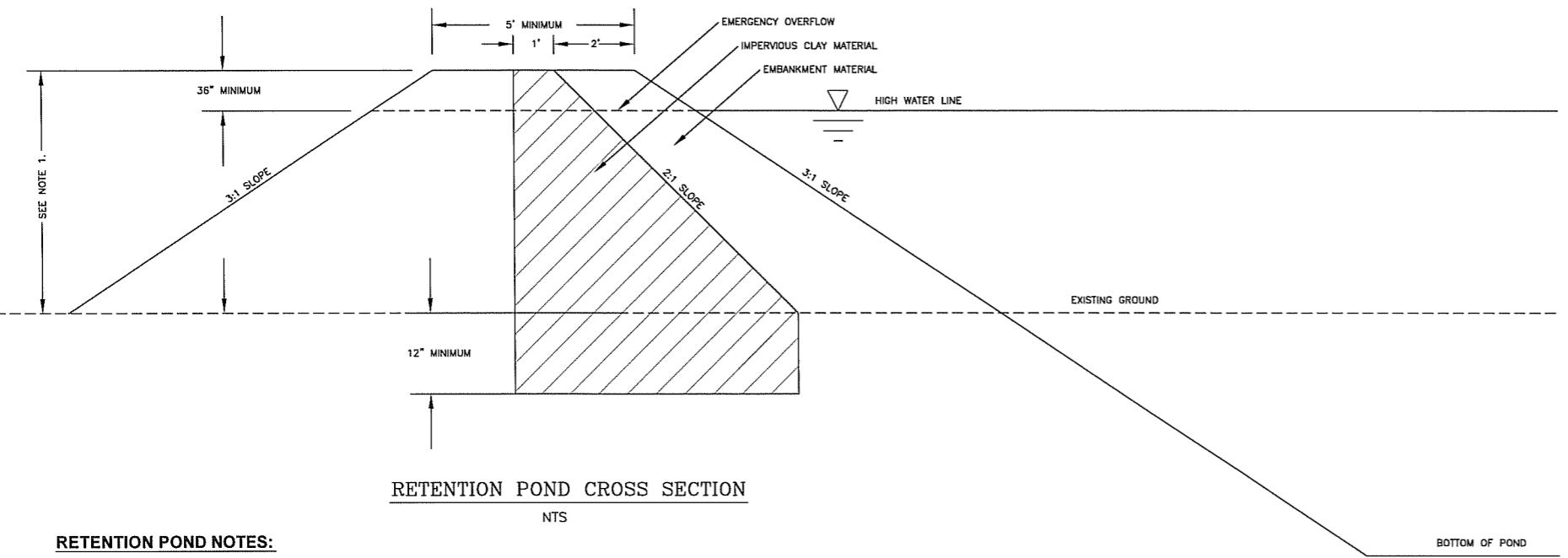
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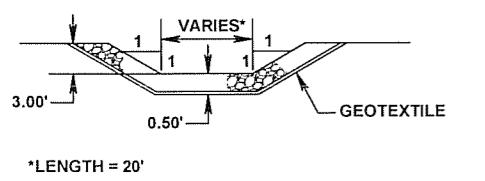
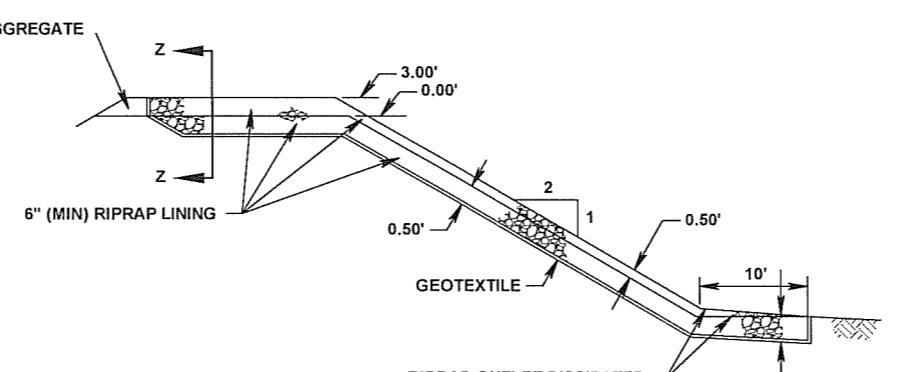
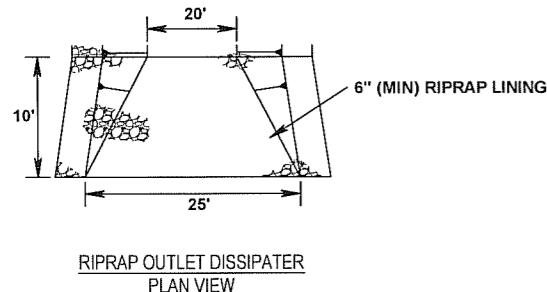
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SHEET D-2  
11 OF X



**ANIMAS GLACIER GRAVEL PIT DETAILS & TYPICAL SECTIONS**

Drawn/Checked: SW  
Drafted by:  
DATE: 05-04-2012  
PROJECT: ANIMAS GLACIER  
GRAVEL PIT

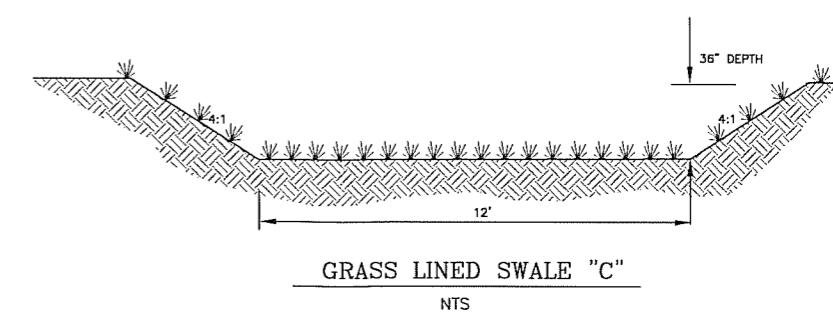


WEIR  
SECTION Z-Z

EMBANKMENT SECTION ALONG EMERGENCY SPILLWAY

SEDIMENT BASIN EMERGENCY SPILLWAYS

N.T.S.

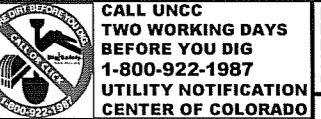


**SWALE NOTES:**

1. ALL SWALES SHALL HAVE A MINIMUM SLOPE OF 0.50% AND A MAXIMUM SLOPE OF 1.00%.
2. CONTRACTOR SHALL CONSULT WITH ENGINEER PRIOR TO ANY DEVIATION FROM THIS REQUIREMENT.

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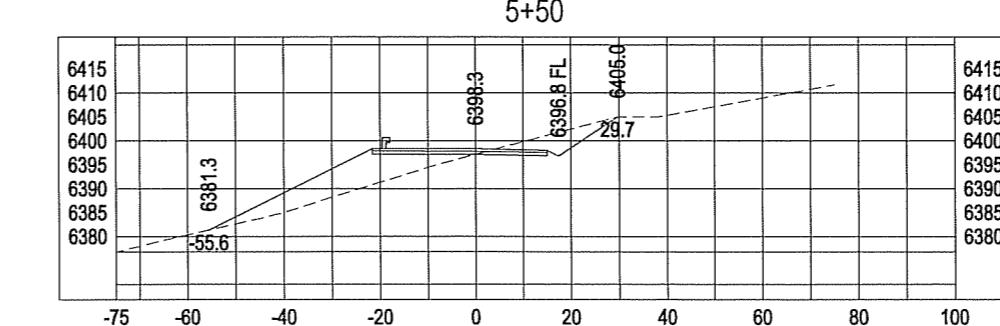
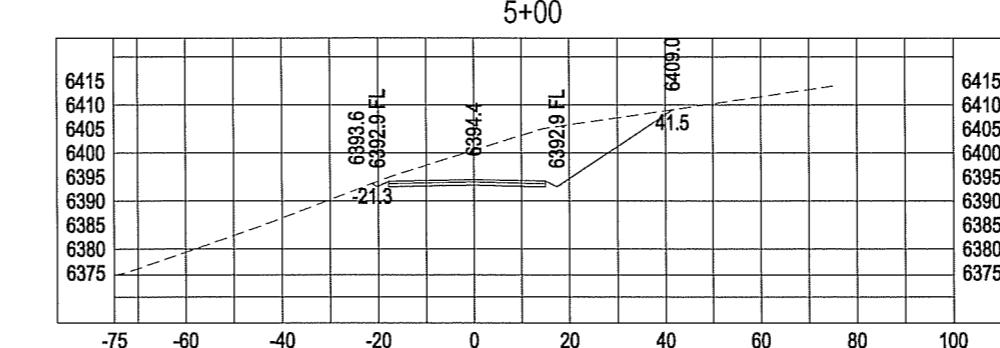
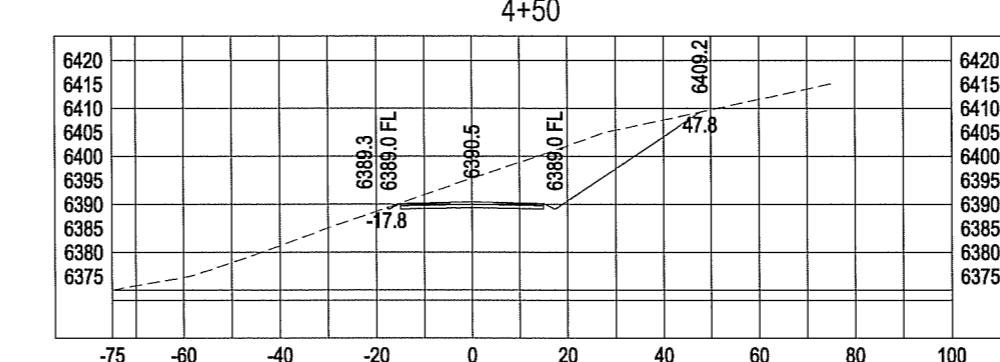
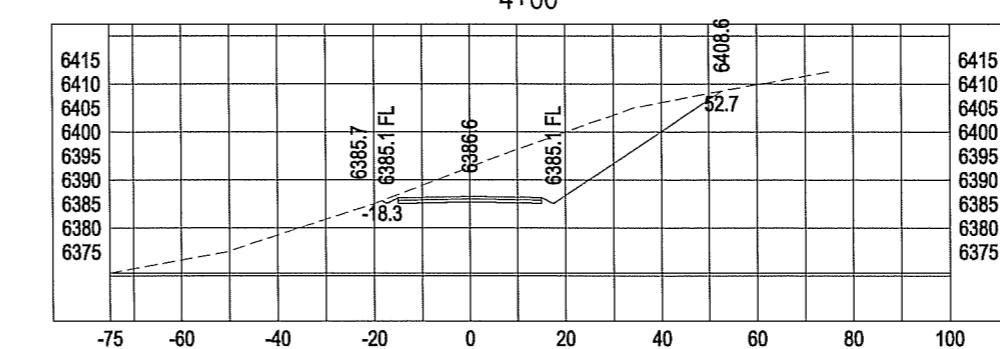
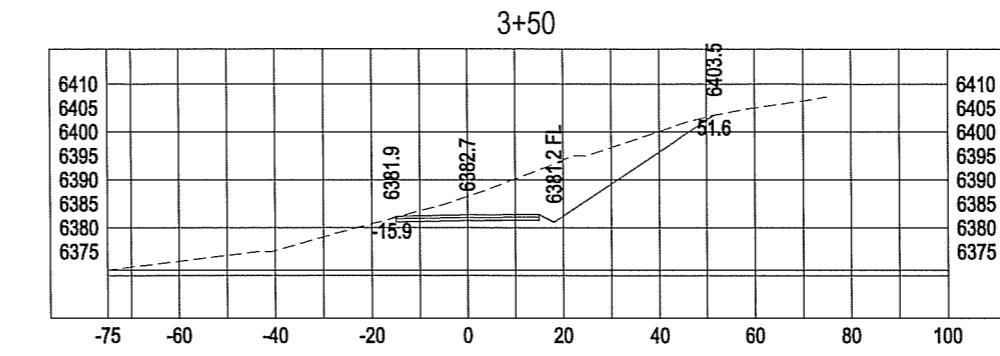
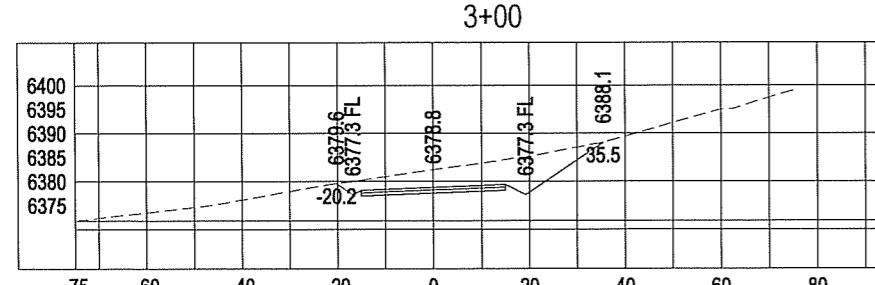
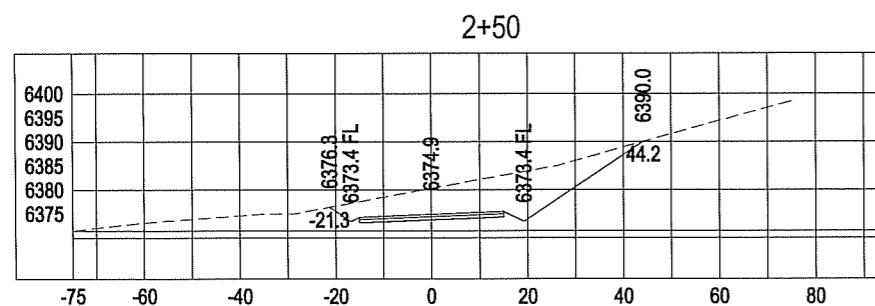
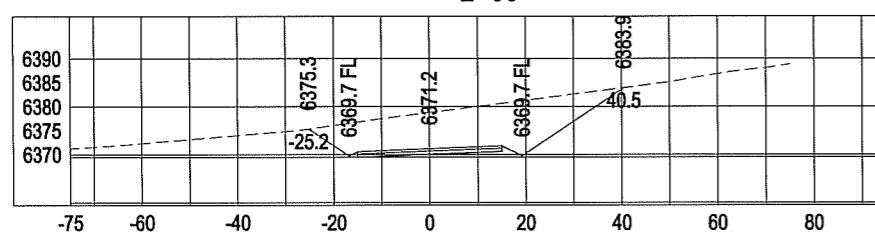
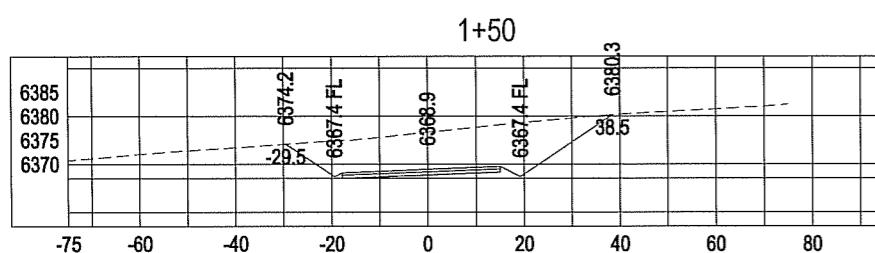
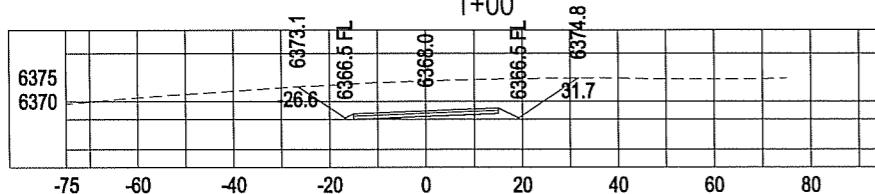
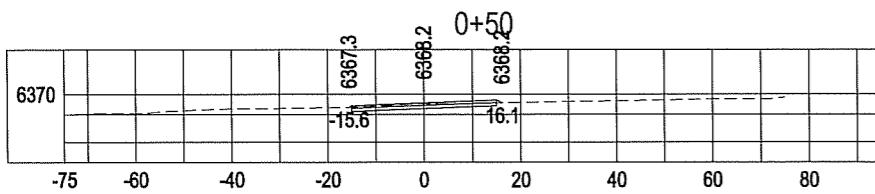
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### ANIMAS GLACIER GRAVEL PIT CROSS SECTIONS

ACAD FILE:  
REVISIONS:

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Drafted by:  
DATE: 05-04-2012  
PROJECT: ANIMAS GLACIER  
GRAVEL PIT

PRELIMINARY



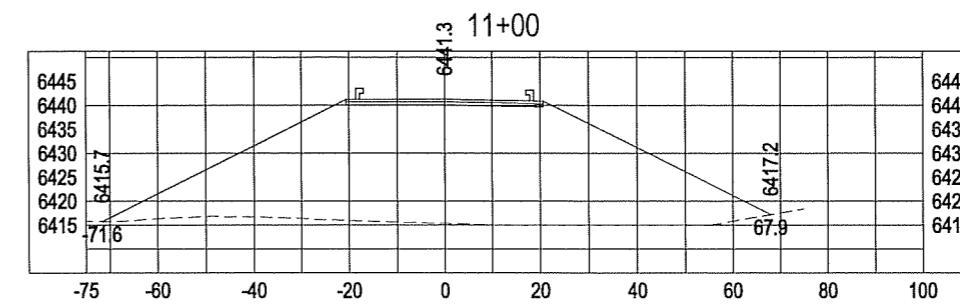
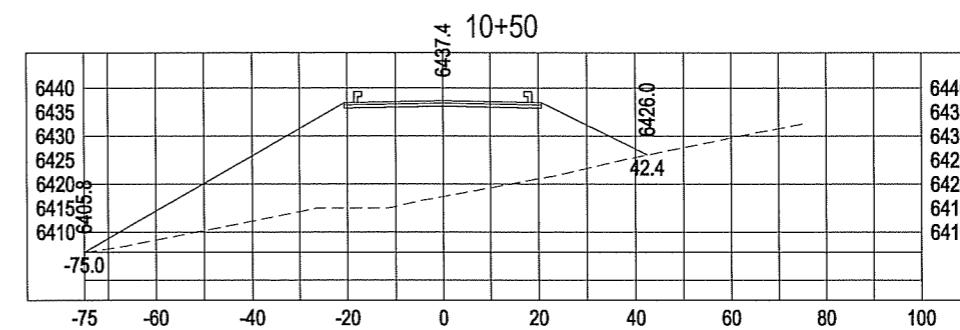
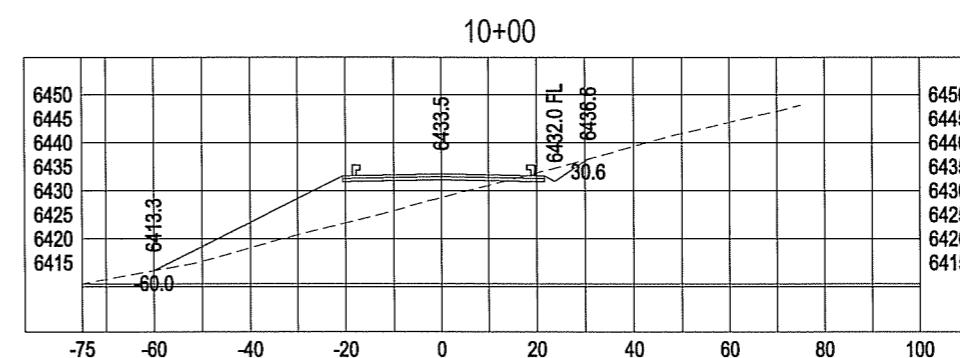
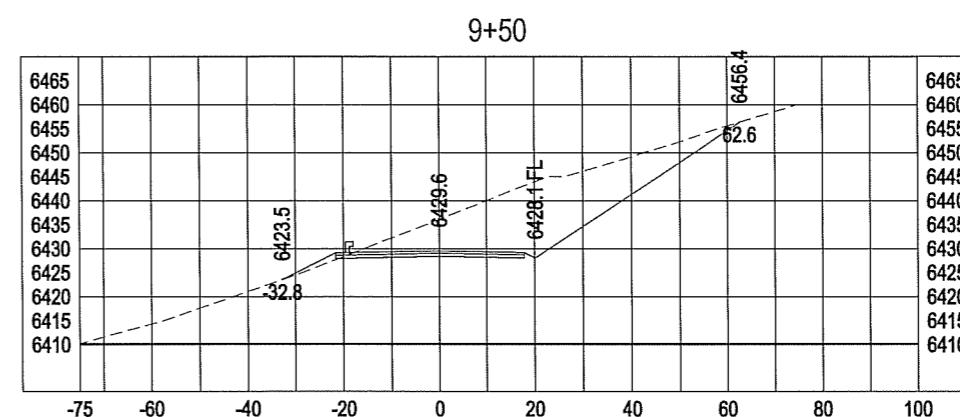
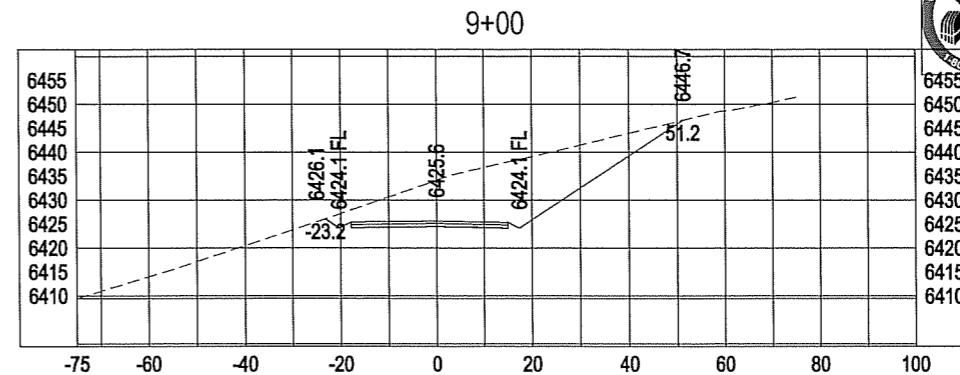
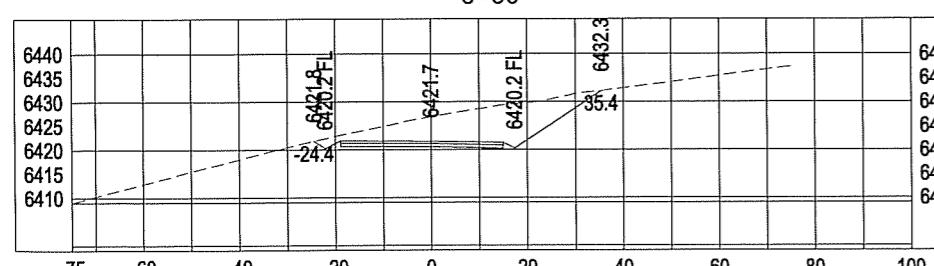
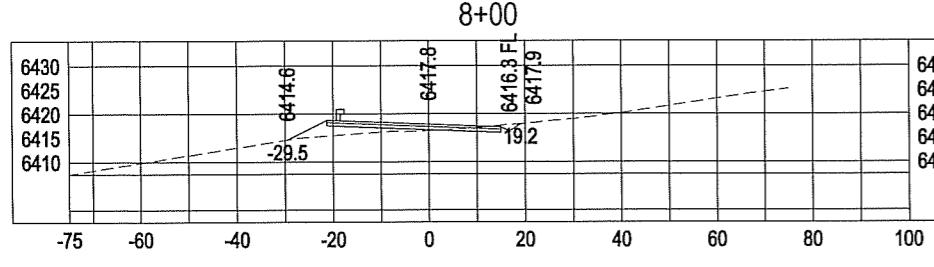
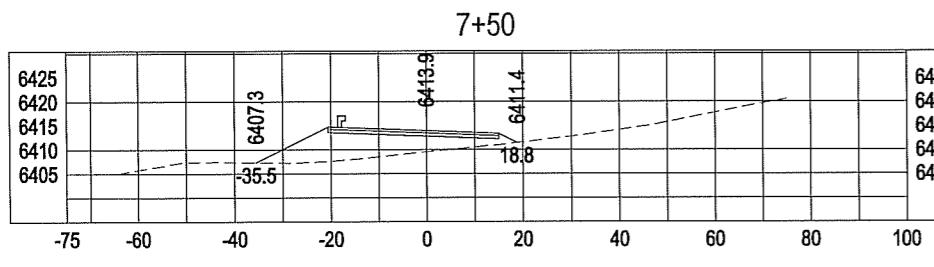
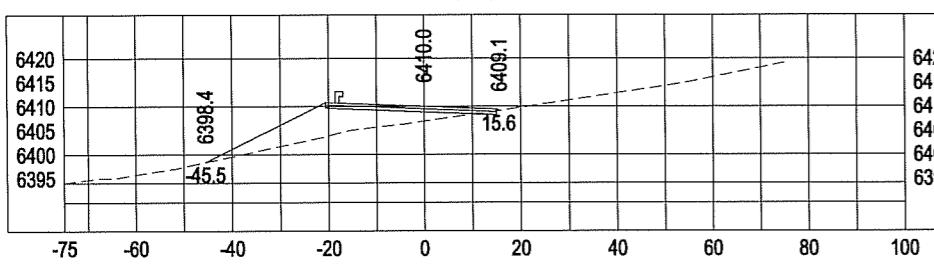
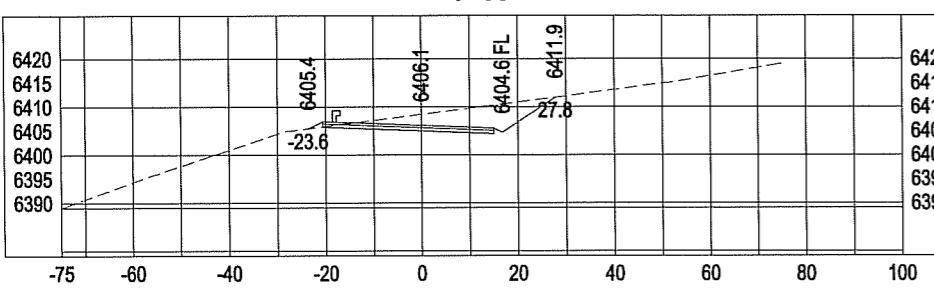
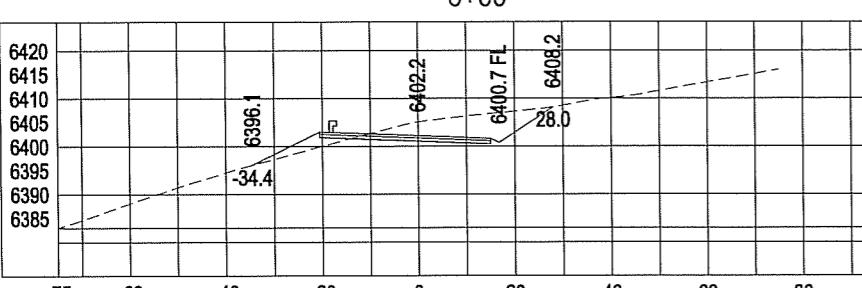
CALL UNCC  
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CENTER OF COLORADO

PLAN

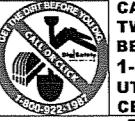
CALL UNCC  
TWO WORKING DAYS  
BEFORE YOU DIG  
1-800-922-1987  
UTILITY NOTIFICATION  
CENTER OF COLORADO

SHEET

XSS-2  
13  
OF  
X

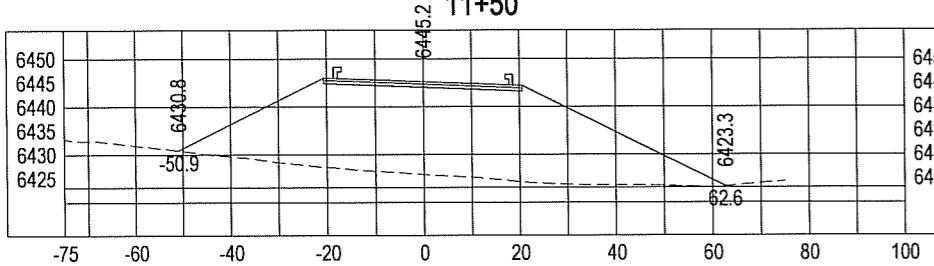


ACAD FILE:	
REVISIONS:	
CALL UNCC TWO WORKING DAYS BEFORE YOU DIG 1-800-922-1987 UTILITY NOTIFICATION CENTER OF COLORADO	Civil Engineering Services 934 Main Avenue, Unit C Durango, Colorado 81301 Phone: (970) 385-4546 Fax: (970) 385-4502
PRELIMINARY	



**ALL UNCC  
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CENTER OF COLORADO**

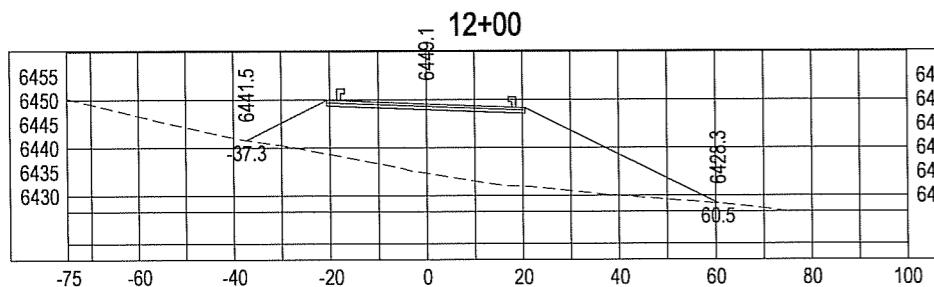
## PLAN



Cut Area: 0 ft<sup>2</sup>  
Fill Area: 1464 ft<sup>2</sup>  

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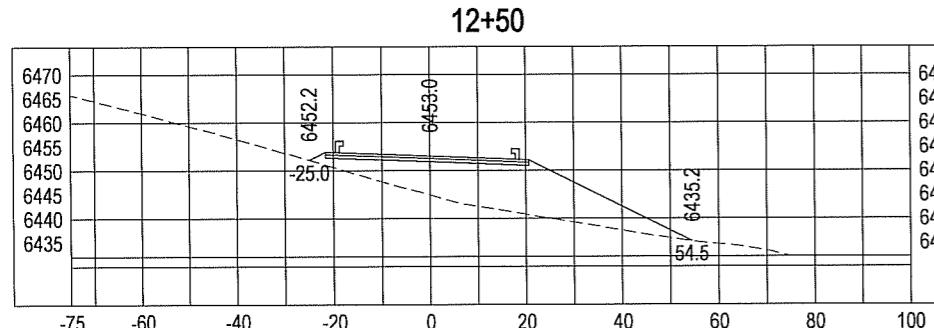
Cut Volume: 9816.2 yds  
Fill Volume: 10287.4 yds



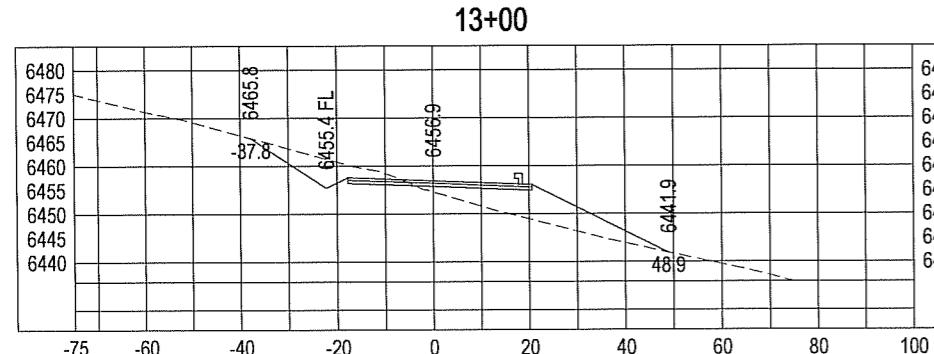
Cut Area: 0 ft<sup>2</sup>  
Fill Area: 960 ft<sup>2</sup>  

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Cut Volume: 9816.2 yds  
Fill Volume: 12467.0 yds



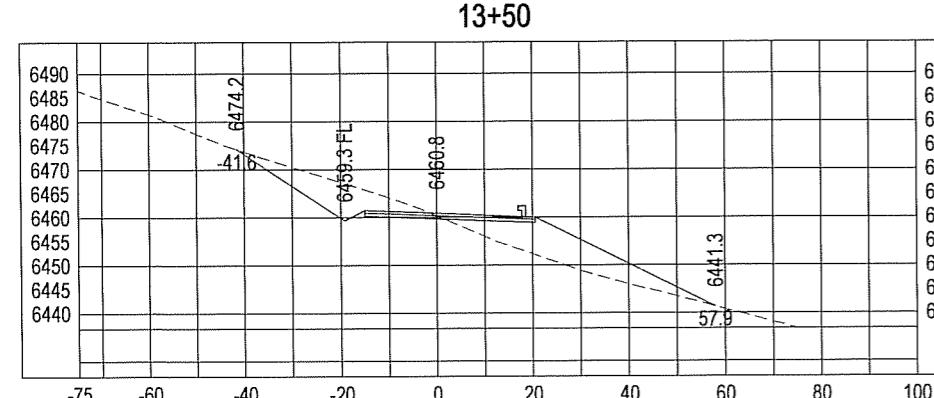
5 Cut Area: 0 ft<sup>2</sup>  
Fill Area: 475 ft<sup>2</sup>  
Cut Volume: 9816.2 yds  
Fill Volume: 13728.3 yds



Cut Area: 98 ft<sup>2</sup>  
Fill Area: 186 ft<sup>2</sup>

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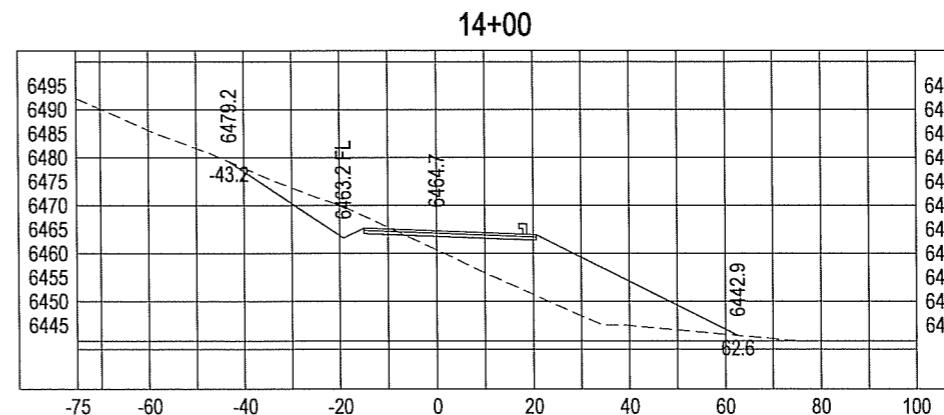
Cut Volume: 9911.1 yds<sup>3</sup>  
Fill Volume: 14294.0 yds<sup>3</sup>



Cut Area: 160 ft<sup>2</sup>  
Fill Area: 226 ft<sup>2</sup>

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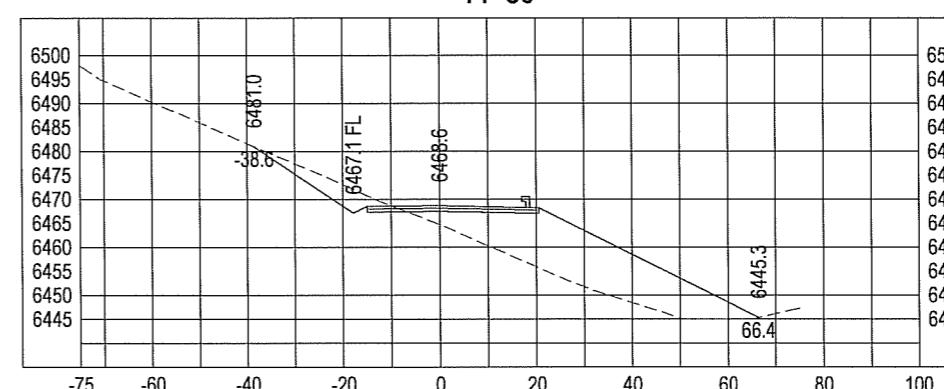
Cut Volume: 10169.7 yd<sup>3</sup>  
Fill Volume: 14637.2 yd<sup>3</sup>



Cut Area: 108 ft<sup>2</sup>  
Fill Area: 493 ft<sup>2</sup>

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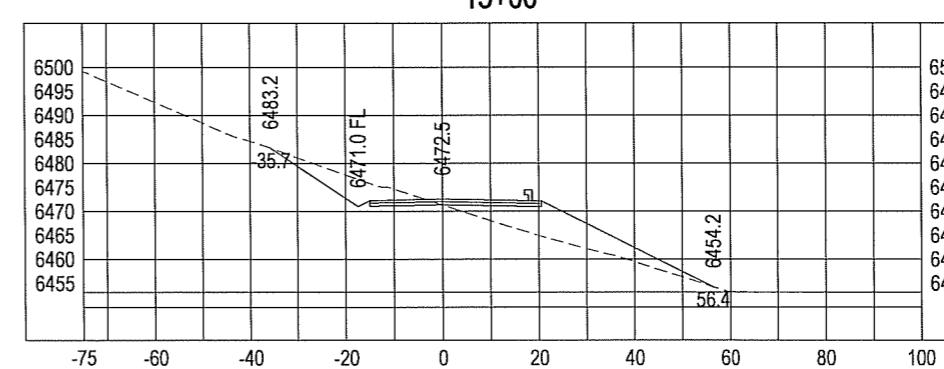
Cut Volume: 10439.4 yds  
Fill Volume: 15229.0 yds



**Cut Area: 77 ft<sup>2</sup>**  
**Fill Area: 544 ft<sup>2</sup>**

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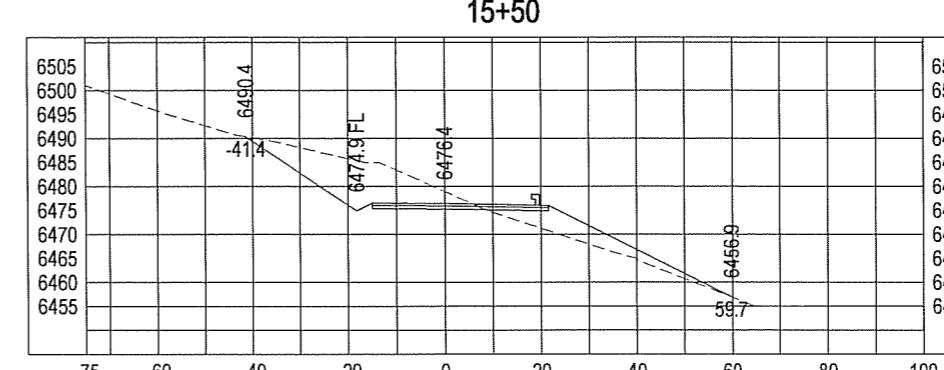
**Cut Volume: 10610.7 yds<sup>3</sup>**  
**Fill Volume: 16188.6 yds<sup>3</sup>**



5 Cut Area: 100 ft<sup>2</sup>  
Fill Area: 188 ft<sup>2</sup>  

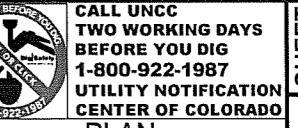
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Cut Volume: 10773.9 yds<sup>3</sup>  
Fill Volume: 16866.1 yds<sup>3</sup>



Cut Area: 275 ft<sup>2</sup>  
Fill Area: 117 ft<sup>2</sup>  
  
Cut Volume: 11120.5 yds<sup>3</sup>  
Fill Volume: 17148.3 yds<sup>3</sup>

<b>Russell Engineering, Inc.</b> <small>Civil Engineering Services</small> 934 Main Avenue, Unit C Durango, Colorado 81301 Phone: (970) 385-4546 Fax: (970) 385-4502		<b>SHEET XS-3</b> 14 OF X
<b>ANIMAS GLACIER GRAVEL PIT</b> <b>CROSS SECTIONS</b>		
<b>ACAD FILE:</b> REVISIONS:	Drawn/Checked: SW Drafted by: <b>DATE:</b> 05-04-2012 <b>PROJECT:</b> ANIMAS GLACIER GRAVEL PIT	



**CALL UNCC  
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PLAN

Cut Area: 0 ft<sup>2</sup>

Fill Area: 576 ft<sup>2</sup>

Cut Volume: 11951.5 yds  
Fill Volume: 20772.4 yds

**PRE-CAST CONCRETE  
TWO WORKING DAYS  
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PLAN

Cut Area: 0 ft<sup>2</sup>

Fill Area: 576 ft<sup>2</sup>

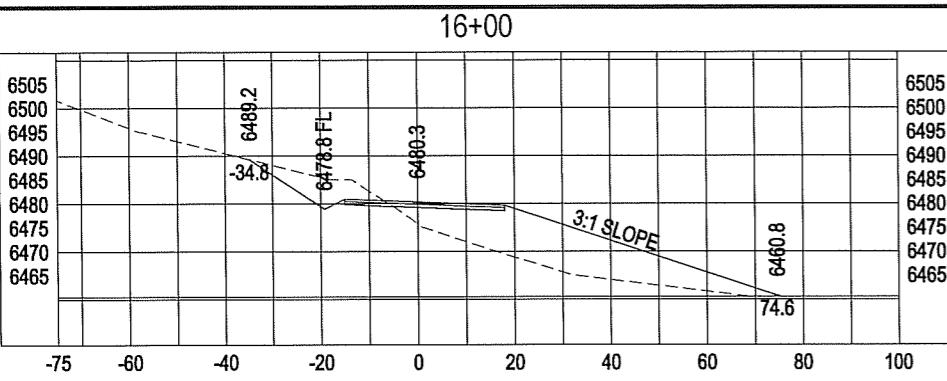
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Fill Volume: 20772.4 yds

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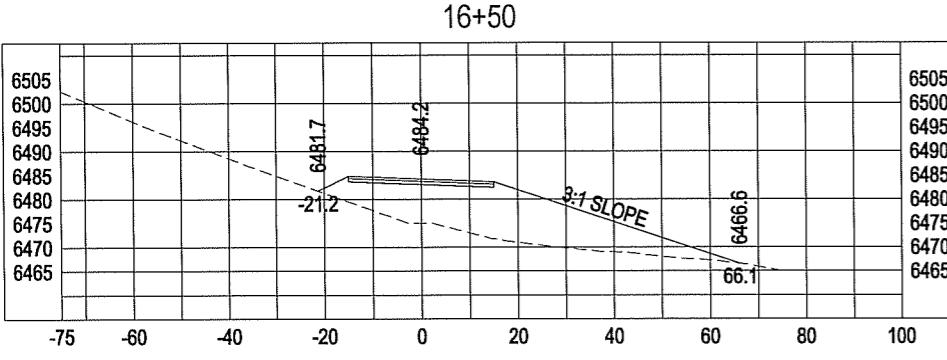
**ANIMAS GLACIER GRAVEL PIT  
CROSS SECTIONS**

Drawn/Checked: SW  
Drafted by: 05-04-2012  
DATE: PROJECT: ANIMAS GLACIER  
GRAVEL PIT

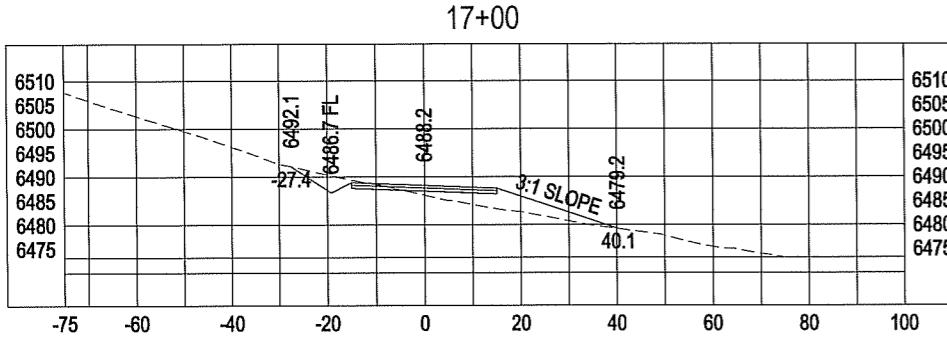
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REVISIONS:



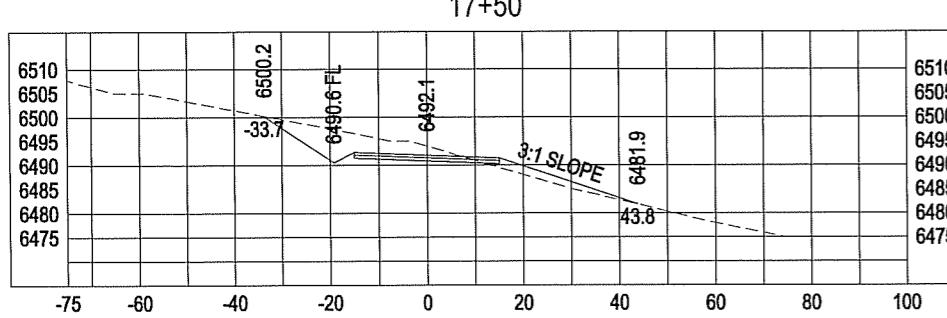
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Fill Volume: 17642.4 yds



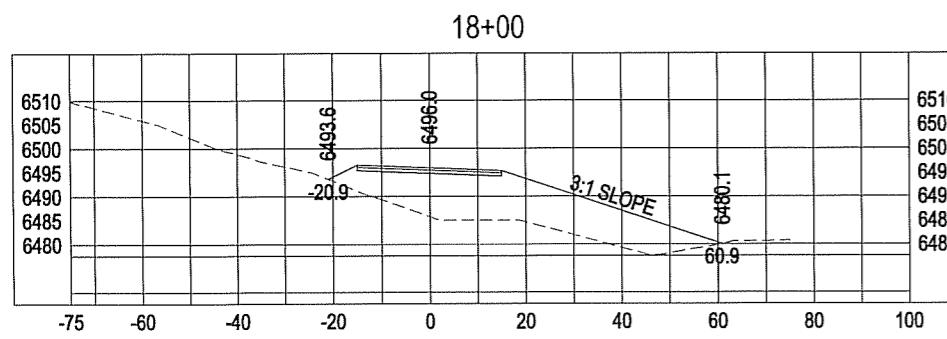
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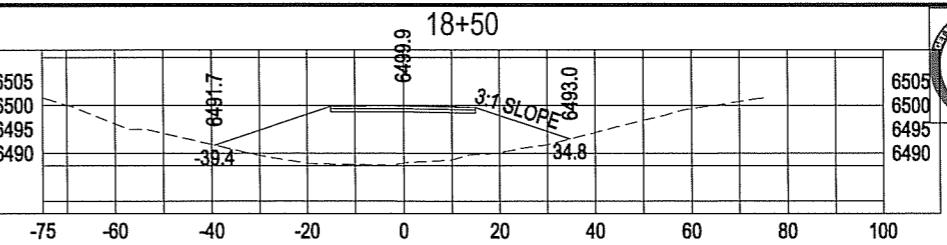
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Fill Volume: 19084.4 yds



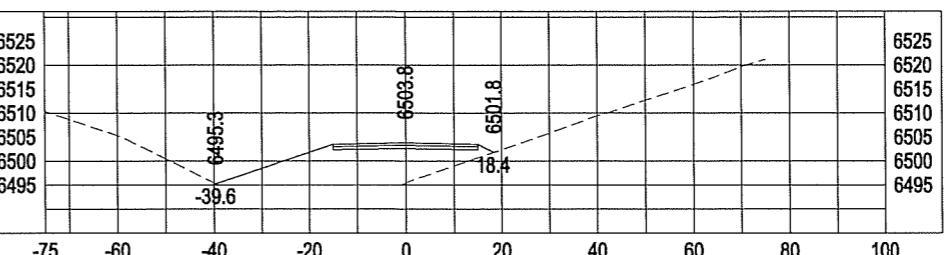
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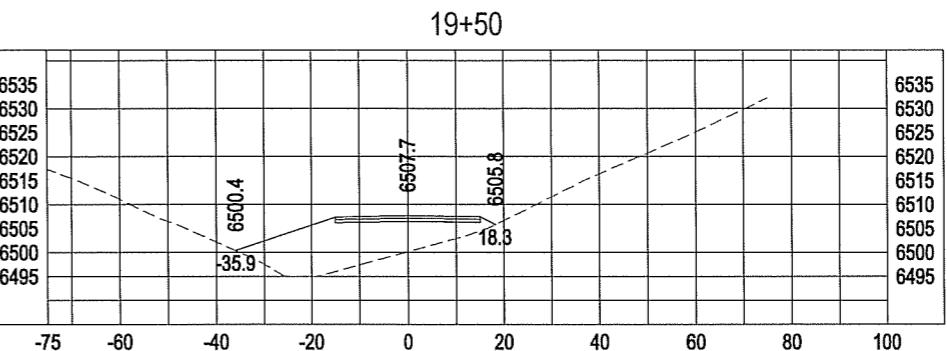
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Fill Volume: 19705.6 yds



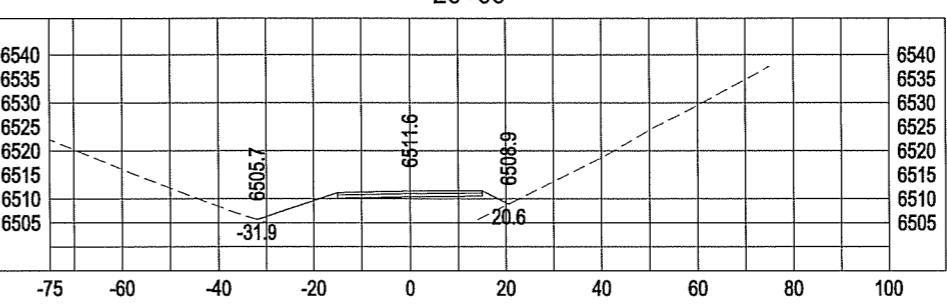
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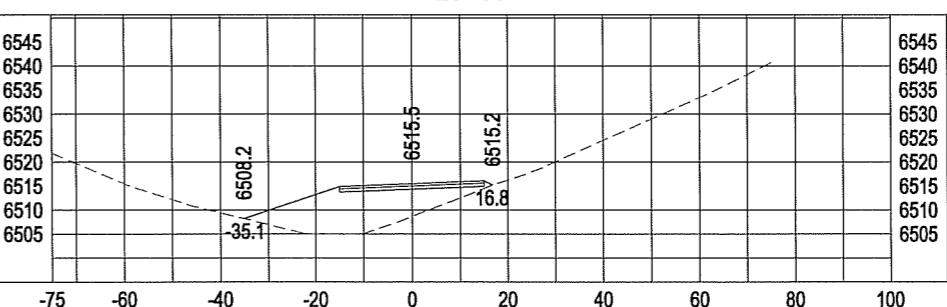
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Fill Area: 290 ft<sup>2</sup>  
Cut Volume: 11951.5 yds  
Fill Volume: 21574.5 yds



Cut Area: 0 ft<sup>2</sup>  
Fill Area: 346 ft<sup>2</sup>  
Cut Volume: 11951.5 yds  
Fill Volume: 22163.7 yds



Cut Area: 0 ft<sup>2</sup>  
Fill Area: 234 ft<sup>2</sup>  
Cut Volume: 11951.5 yds  
Fill Volume: 22701.1 yds

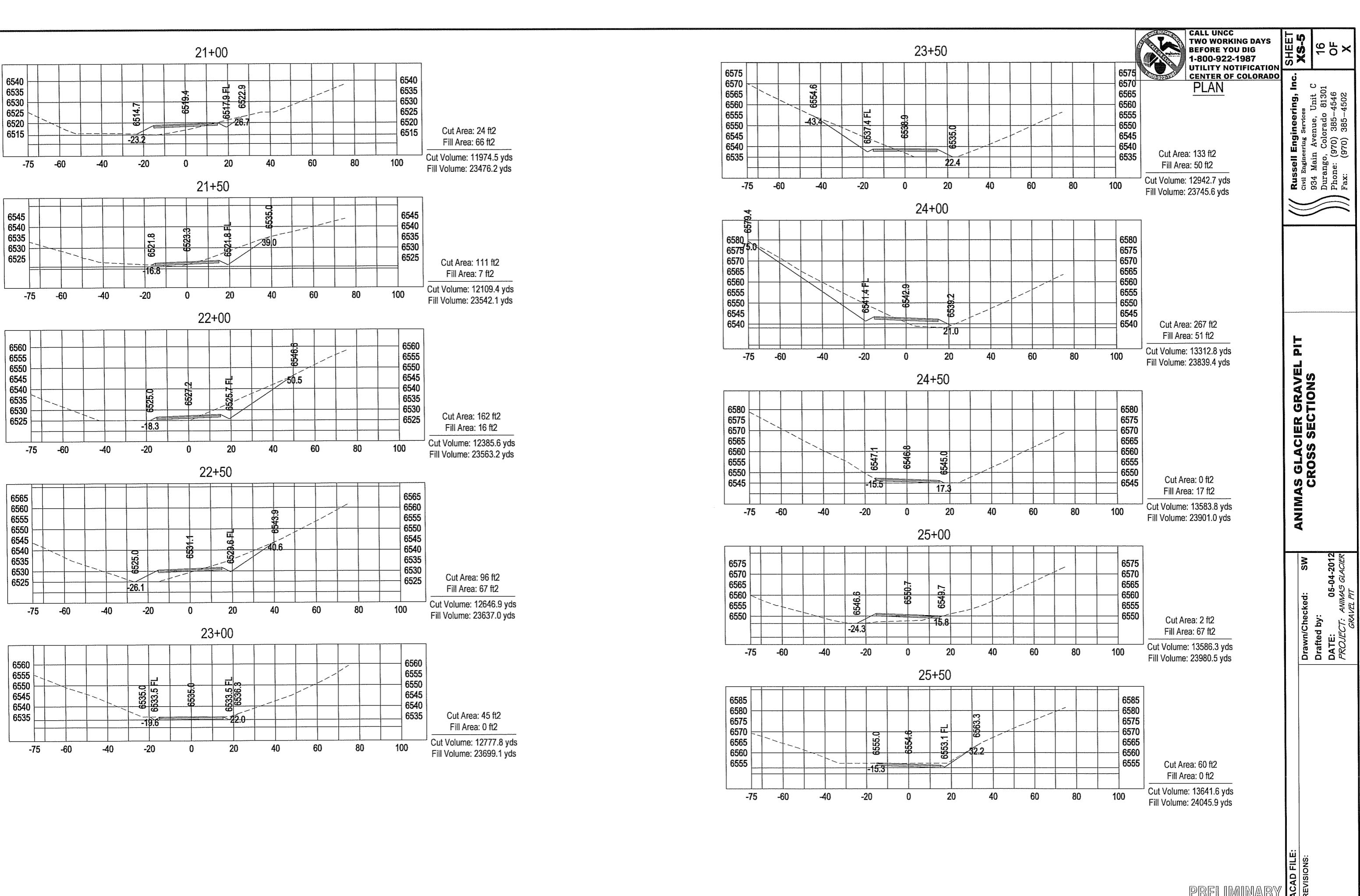


Cut Area: 0 ft<sup>2</sup>  
Fill Area: 276 ft<sup>2</sup>  
Cut Volume: 11951.5 yds  
Fill Volume: 23172.9 yds



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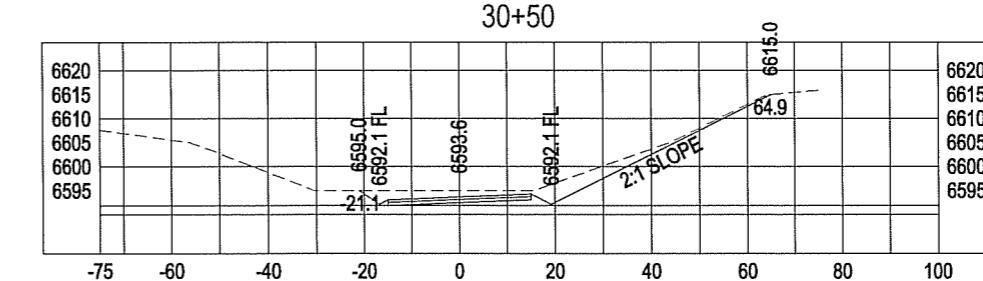
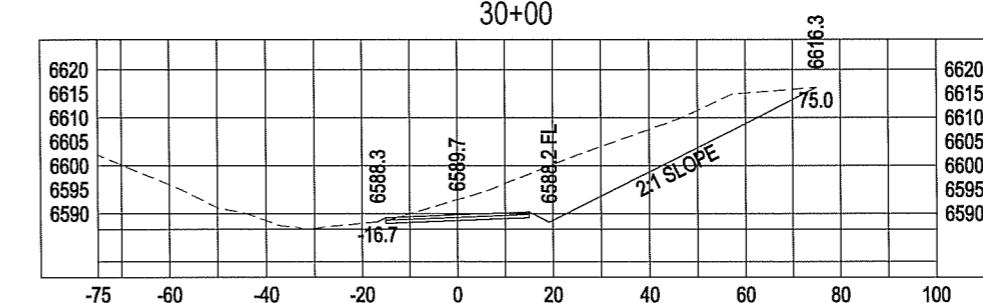
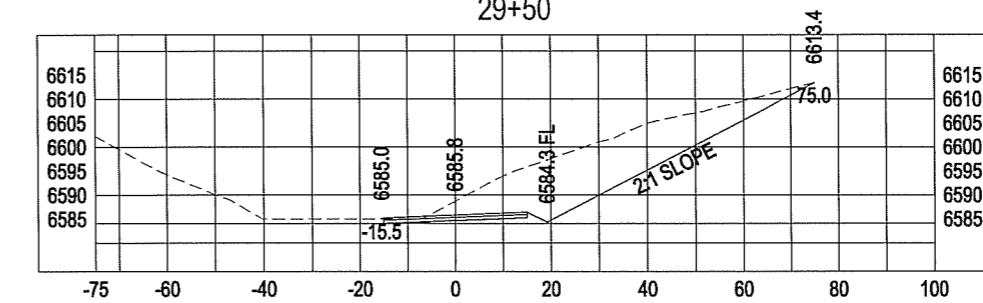
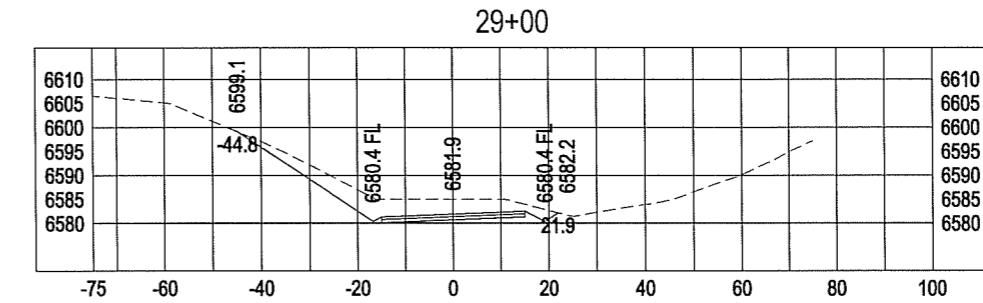
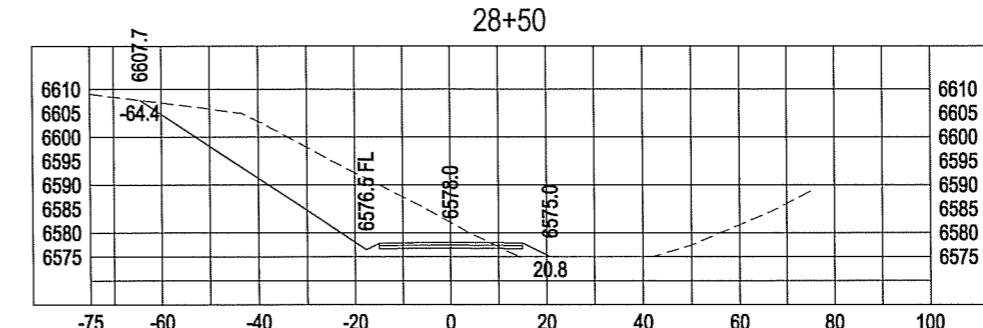
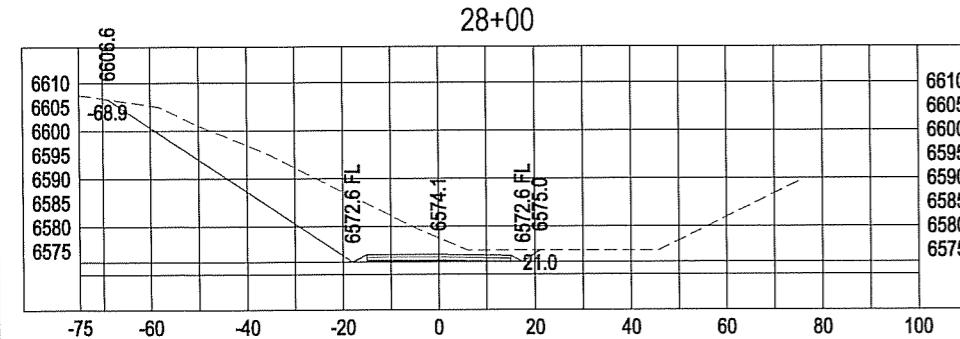
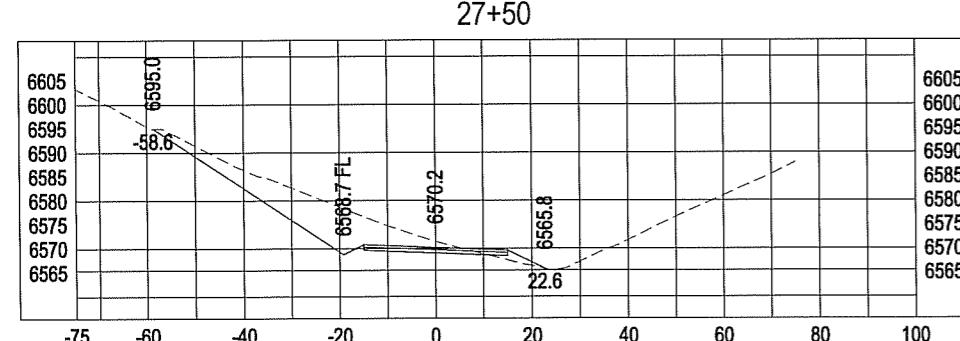
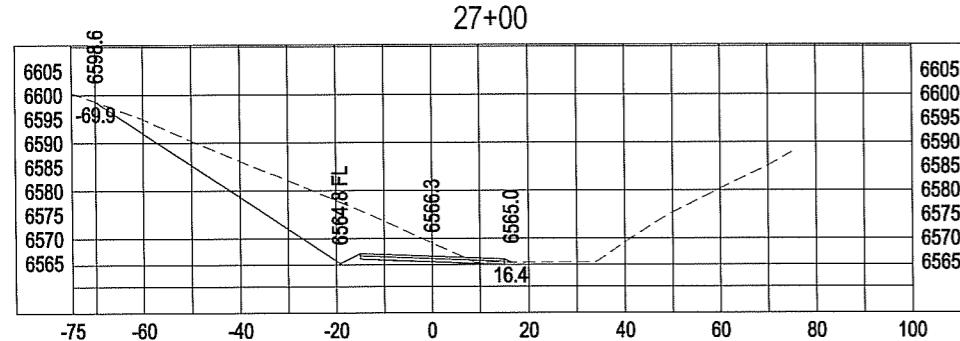
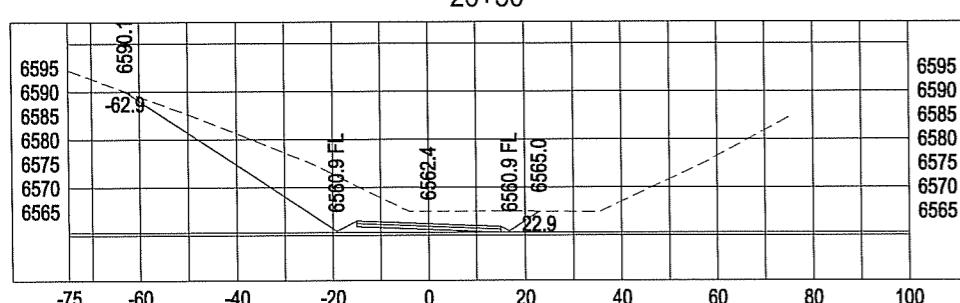
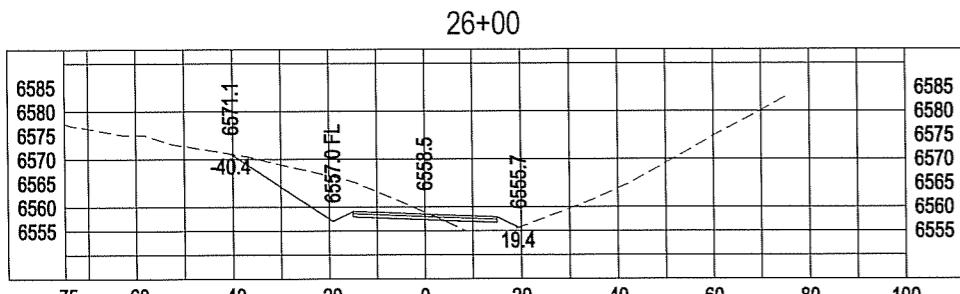
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SHEET  
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Civil Engineering Services  
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Fax: (970) 385-4502

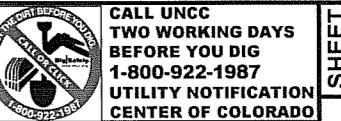
**ANIMAS GLACIER GRAVEL PIT**  
**CROSS SECTIONS**



ACAD FILE:  
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Drawn/Checked: SW  
Drafted by: 05-04-2012  
DATE: PROJECT: ANIMAS GLACIER  
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934 Main Avenue, Unit C  
Durango, Colorado 81301  
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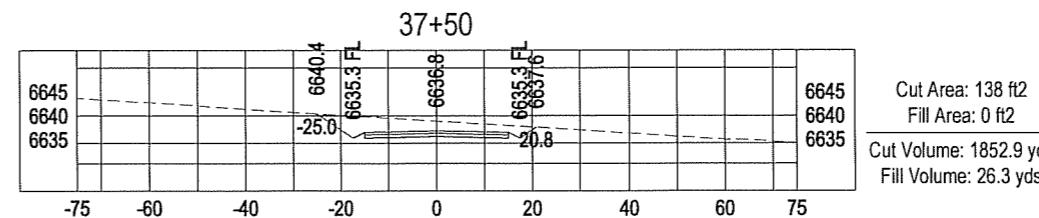
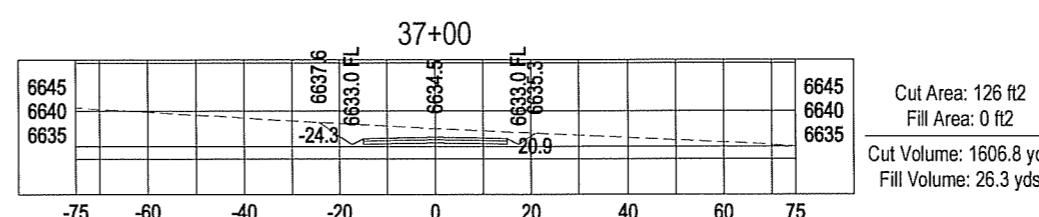
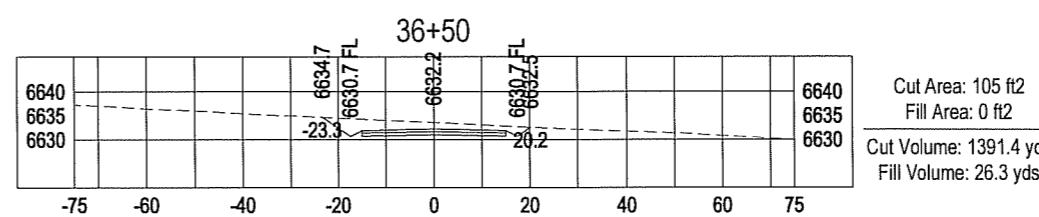
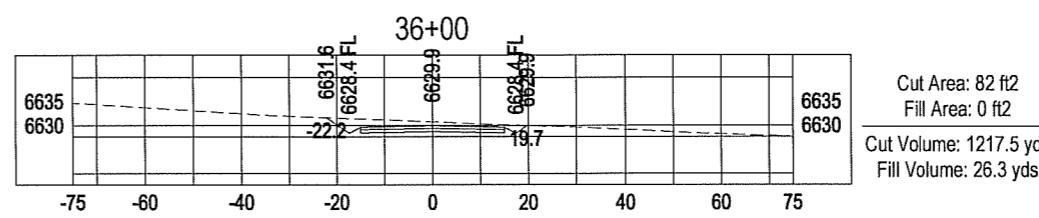
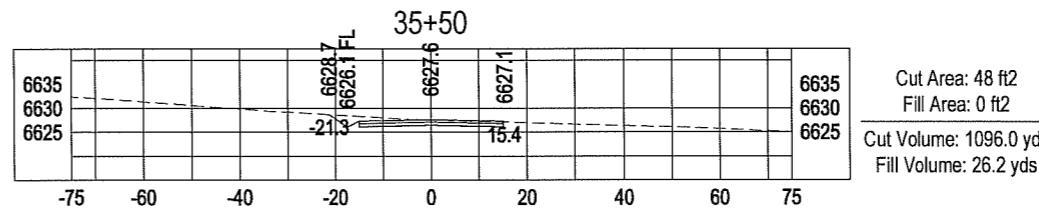
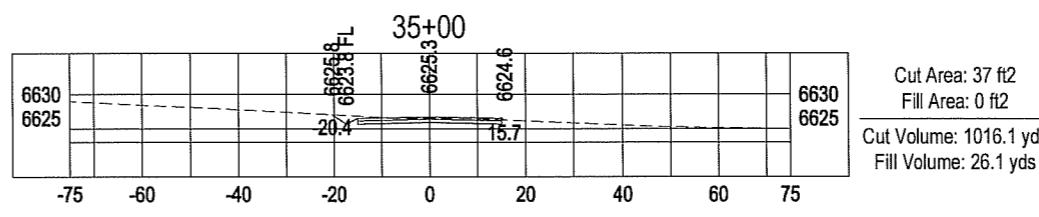
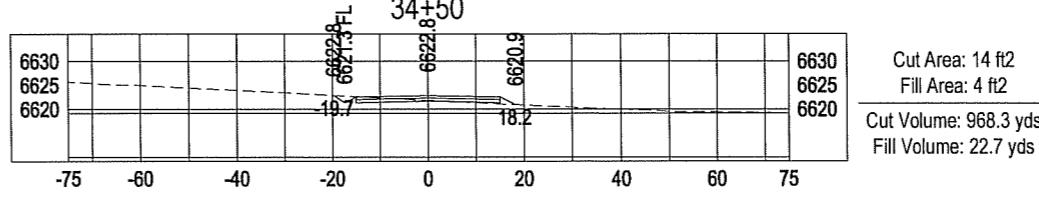
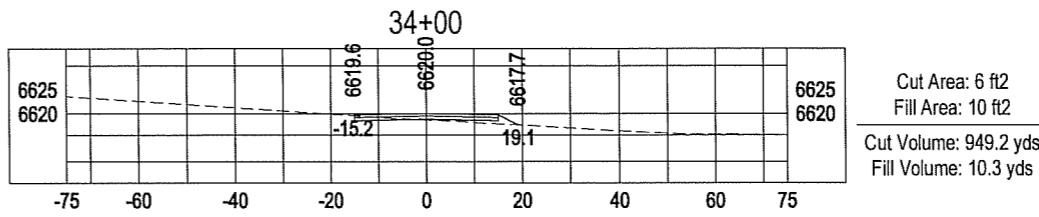
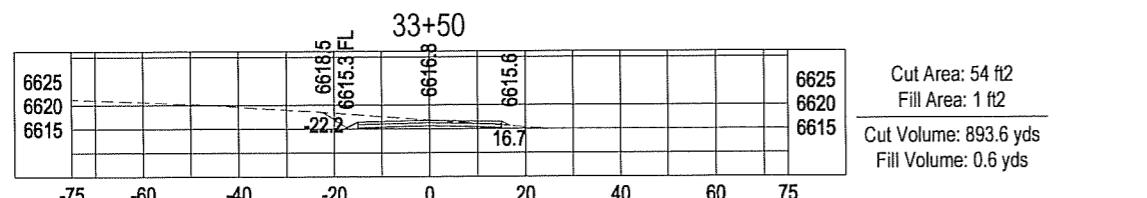
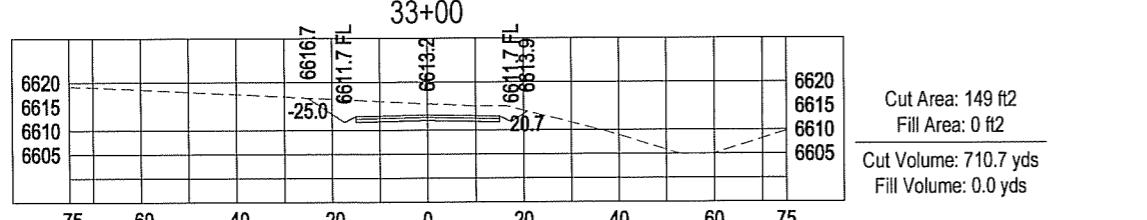
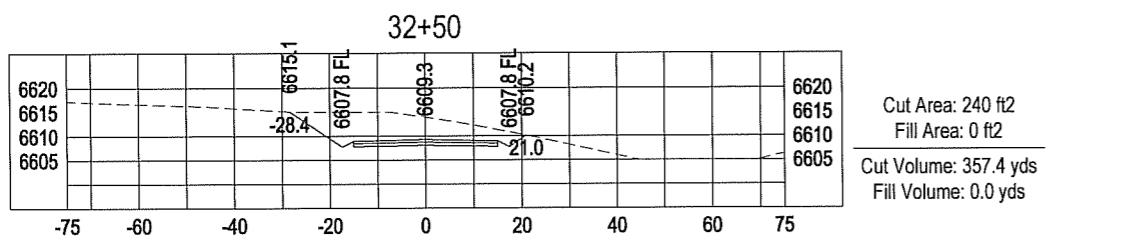
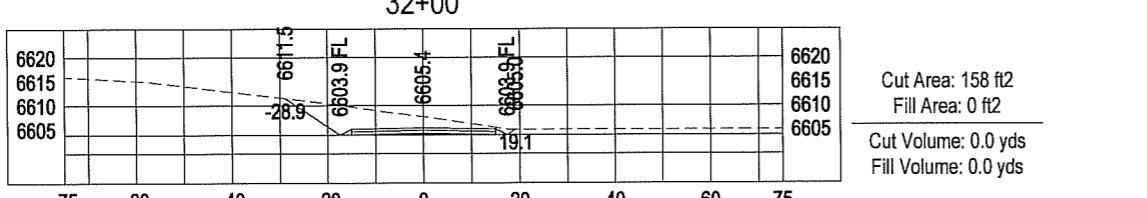
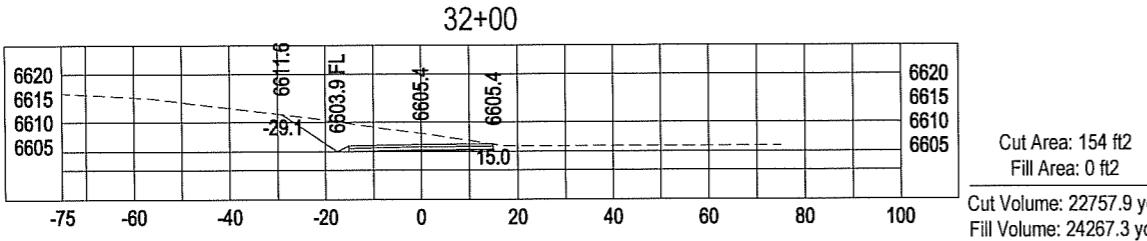
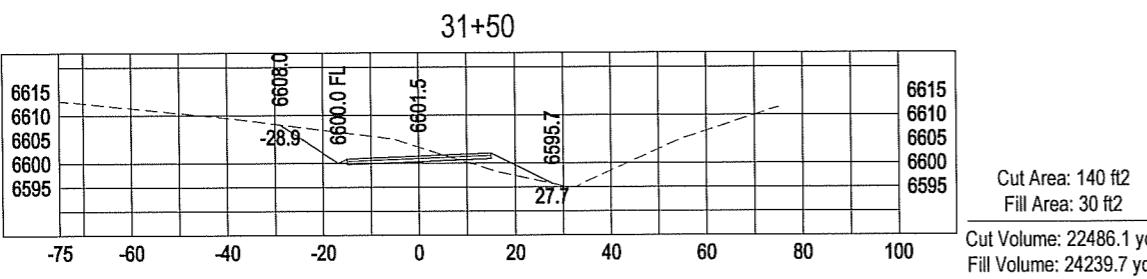
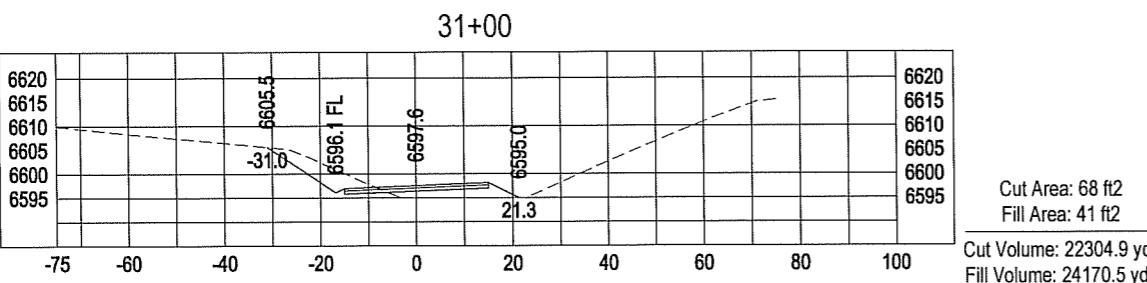
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18 OF X

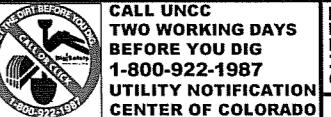
**ANIMAS GLACIER GRAVEL PIT**  
**CROSS SECTIONS**

Drawn/Checked: SW  
Drafted by:  
DATE: 05-04-2012  
PROJECT: ANIMAS GLACIER  
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REVISIONS:



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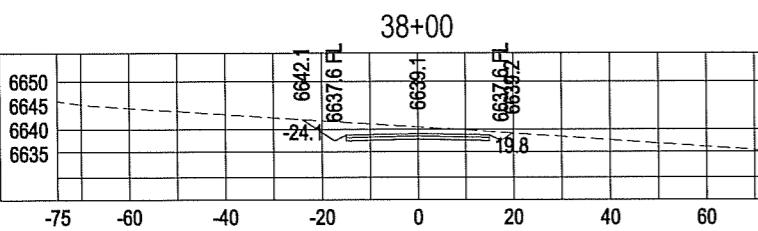
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**X8-8**

19  
OF  
X

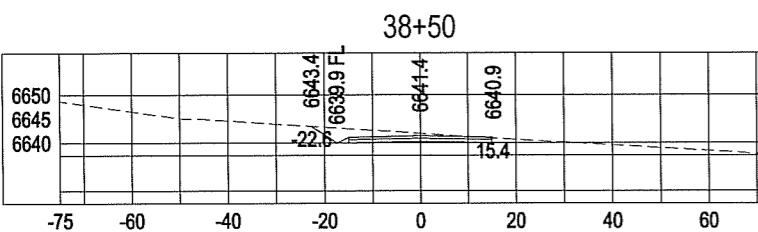
**ANIMAS GLACIER GRAVEL PIT**  
**CROSS SECTIONS**

ACAD FILE:  
REVISIONS:

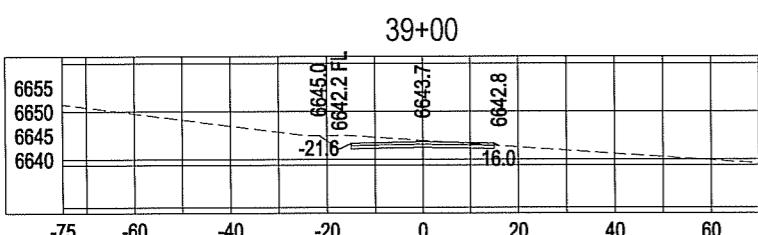
Drawn/Checked: SW  
Drafted by:  
DATE: 05-04-2012  
PROJECT: ANIMAS GLACIER  
GRAVEL PIT



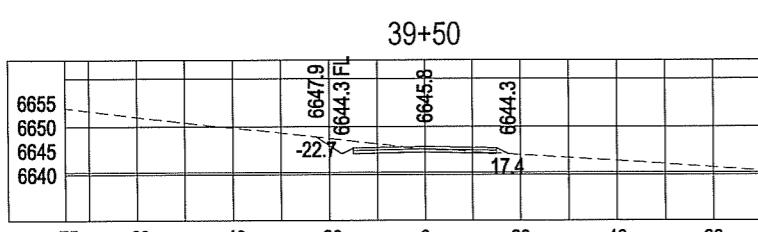
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Fill Volume: 26.3 yds



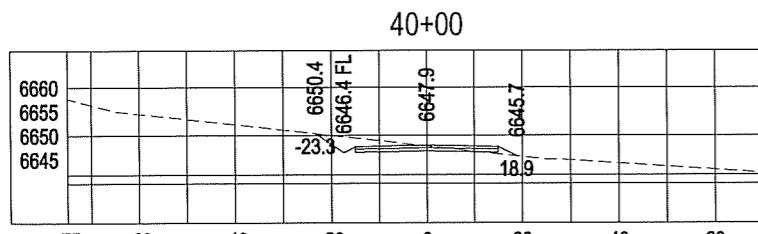
Cut Area: 69 ft<sup>2</sup>  
Fill Area: 0 ft<sup>2</sup>  
Cut Volume: 2245.6 yds  
Fill Volume: 26.3 yds



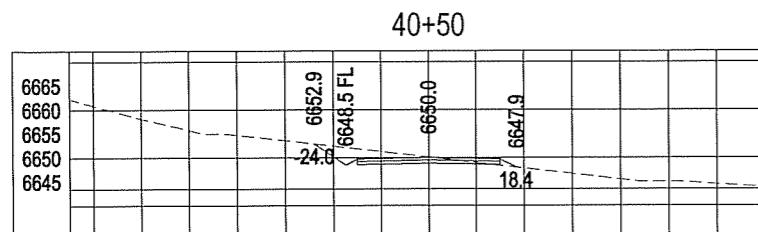
Cut Area: 59 ft<sup>2</sup>  
Fill Area: 0 ft<sup>2</sup>  
Cut Volume: 2364.6 yds  
Fill Volume: 26.5 yds



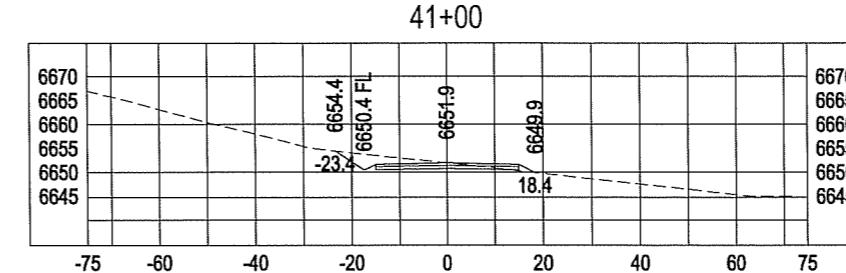
Cut Area: 42 ft<sup>2</sup>  
Fill Area: 1 ft<sup>2</sup>  
Cut Volume: 2458.5 yds  
Fill Volume: 27.9 yds



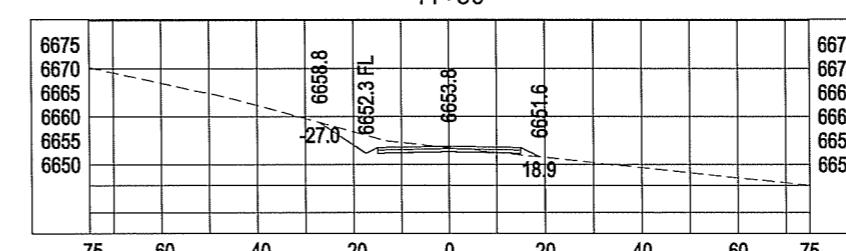
Cut Area: 51 ft<sup>2</sup>  
Fill Area: 4 ft<sup>2</sup>  
Cut Volume: 2545.1 yds  
Fill Volume: 32.5 yds



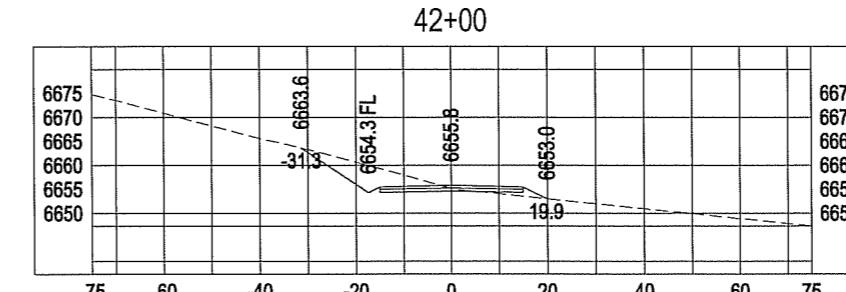
Cut Area: 62 ft<sup>2</sup>  
Fill Area: 2 ft<sup>2</sup>  
Cut Volume: 2649.9 yds  
Fill Volume: 38.2 yds



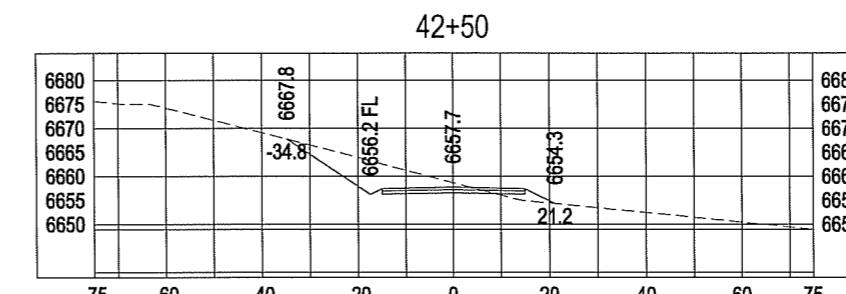
Cut Area: 56 ft<sup>2</sup>  
Fill Area: 2 ft<sup>2</sup>  
Cut Volume: 2758.9 yds  
Fill Volume: 42.6 yds



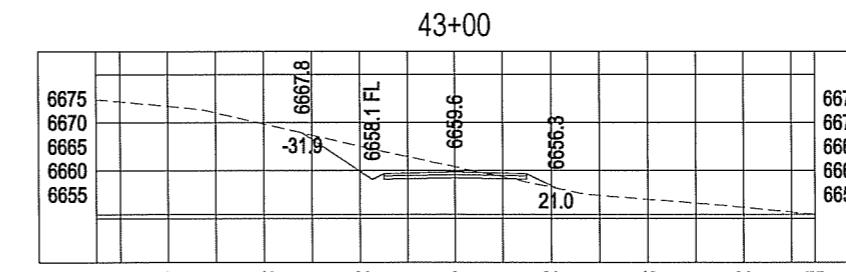
Cut Area: 57 ft<sup>2</sup>  
Fill Area: 4 ft<sup>2</sup>  
Cut Volume: 2863.5 yds  
Fill Volume: 48.3 yds



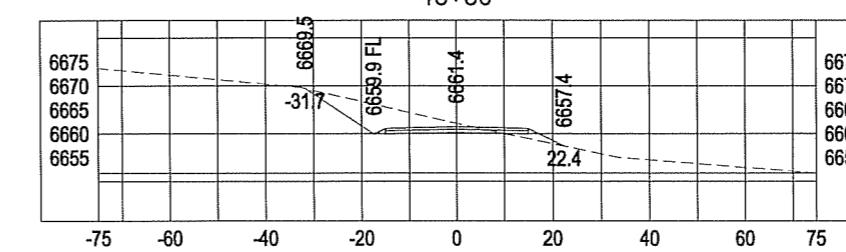
Cut Area: 95 ft<sup>2</sup>  
Fill Area: 9 ft<sup>2</sup>  
Cut Volume: 3003.9 yds  
Fill Volume: 59.8 yds



Cut Area: 149 ft<sup>2</sup>  
Fill Area: 12 ft<sup>2</sup>  
Cut Volume: 3229.0 yds  
Fill Volume: 78.7 yds



Cut Area: 133 ft<sup>2</sup>  
Fill Area: 6 ft<sup>2</sup>  
Cut Volume: 3489.9 yds  
Fill Volume: 95.4 yds



Cut Area: 123 ft<sup>2</sup>  
Fill Area: 10 ft<sup>2</sup>  
Cut Volume: 3727.4 yds  
Fill Volume: 110.6 yds

PRELIMINARY



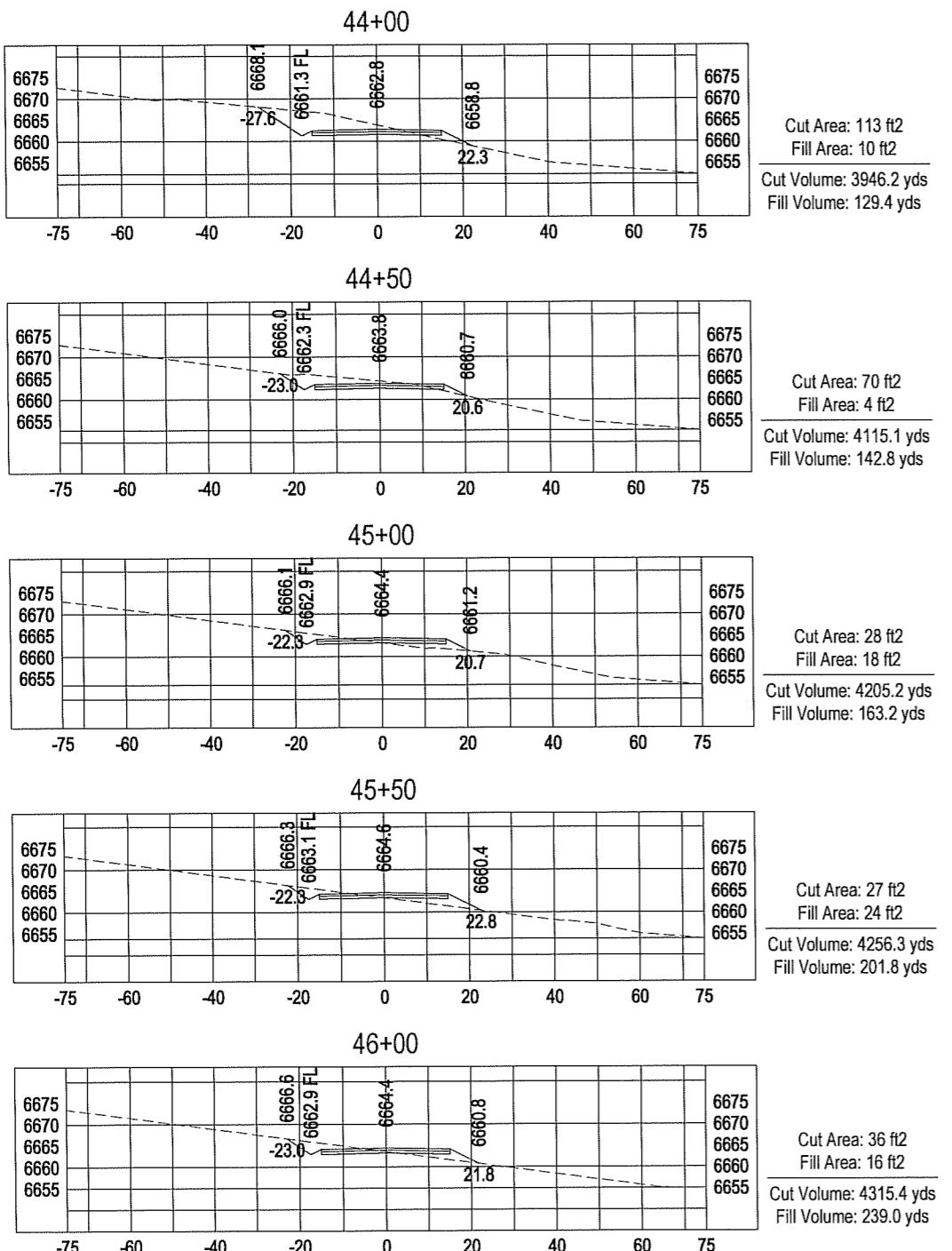
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Fax: (970) 385-4502

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**ANIMAS GLACIER GRAVEL PIT**  
**CROSS SECTIONS**

Drawn/Checked: SW  
Drafted by:  
DATE: 05-04-2012  
PROJECT: ANIMAS GLACIER  
GRAVEL PIT

ACAD FILE:  
REVISIONS:

PRELIMINARY