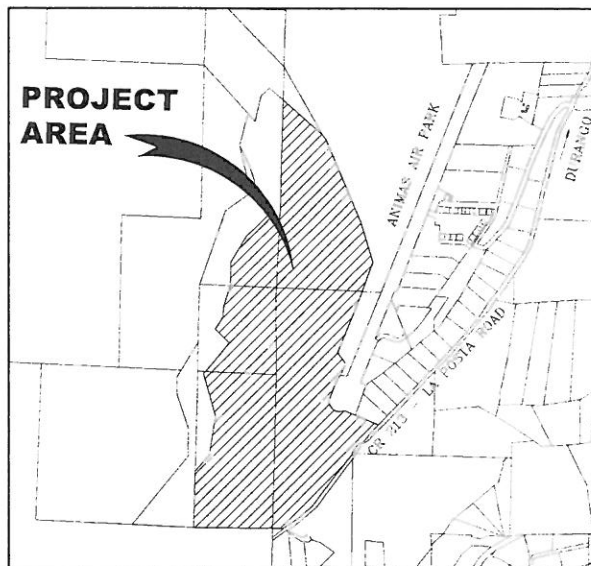


Legend

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



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 specified in The Reclamation 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

Utility Notes:

The contractor shall have in his possession at all times one (1) signed copy of plans and specifications which have been approved by the county.

The contractor shall inform the owner's representative 24 hours in advance when trench will be ready for compaction tests. The contractor shall obtain a geotechnical testing laboratory to perform all required tests.

All Stationing is to the center of pipe.

All pipe bedding shall be Class "B" bedding with at least 12 inches of bedding above the pipe and at least 4 inches of bedding below the bells in accordance with Section 102.13B (bedding) of the City of Durango's standards and specifications. All bedding shall be compacted per Section 102.13B.

Trench width at the top of the bell shall not exceed 16 inches plus pipe width.

The contractor shall backfill the trench up to the existing roadway surface, providing a smooth driving surface. In this manner, the contractor can asphalt pave large sections of trench at one time while still providing a usable roadway.

The contractor shall relocate street signs temporarily during construction, then replace as required, including lock base, metal post, mounting hardware, etc.

The contractor shall be responsible for protection of all existing asphalt from construction equipment. Damaged asphalt shall be replaced by the contractor at his expense.

Where construction occurs in or across asphalt or concrete pavement, saw cut the pavement for a clean straight edge 6" outside the trench limits to allow clean removal and a good surface for proper patching.

All pavement saw cuts shall be 50° to one another.

Immediately prior to asphalt patchback, the contractor shall remove the top 5 inches of Class 5 ABC on the trench and recondition the backfill as necessary to meet city paving standards. Compaction tests shall be taken by the contractor's geotechnical testing laboratory and submitted to the engineer. All damaged edges of pavement or soft shoulders shall be saw cut, removed, and the base compacted.

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 48 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.



CALL UNCC
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UTILITY NOTIFICATION
CENTER OF COLORADO

PLAN

SHEET
PD-1
1 OF X

Russell Engineering, Inc.
Civil Engineering Services
954 Main Avenue, Unit C
Durango, Colorado 81301
Phone: (970) 385-4546
Fax: (970) 385-4502

ANIMAS GLACIER GRAVEL PIT
PROJECT DATA SHEET

SW
Drawn/Checked:
Drafted by:
DATE: 05-04-2012

ACAD FILE:
REVISIONS:

Note:

The plans when 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 considerations.

LINE	BEARING	LENGTH
L1	S 39°00'42" E	142.81
L2	S 13°31'18" W	71.30
L3	S 12°12'08" W	34.72
L4	S 13°12'12" W	89.77
L5	S 12°01'17" W	61.84
L6	N 40°14'20" E	109.73
L7	S 20°11'22" E	70.33
L8	S 80°13'16" E	344.90
L9	S 48°38'17" W	53.13
L10	S 12°04'11" W	28.28
L11	S 10°00'12" E	9.15
L12	S 85°25'42" W	12.21

LEGEND

- PROPERTY LINE
- GRAVEL PIT BOUNDARY LINE
- FLOW PATH

LINE	BEARING	LENGTH
L1	S 39°00'42" E	142.81
L2	S 13°31'18" W	71.30
L3	S 12°12'08" W	34.72
L4	S 13°12'12" W	89.77
L5	S 12°01'17" W	61.84
L6	N 40°14'20" E	109.73
L7	S 20°11'22" E	70.33
L8	S 80°13'16" E	344.90
L9	S 48°38'17" W	53.13
L10	S 12°04'11" W	28.28
L11	S 10°00'12" E	9.15
L12	S 85°25'42" W	12.21

SCALE: 1" = 500' (1:500)
SCALE: 1" = 250' (1:250)



GENERAL NOTES

1. THE MAIN ACCESS ROAD WILL BE CONSTRUCTED TO THE OFFICE TRAILER AS SHOWN.
2. THE OWNER SHALL LOCATE THE PROVIDED SEDIMENT AND FRESH WATER POND TO KEEP DISTURBED SITE RUNOFF FROM FLOODING THE PROPERTY. THE SWALE AND POND UPPER AND LOCATION SHALL BE THE RESPONSIBILITY OF THE OWNER THROUGHOUT THE PROJECT. POND SHALL HAVE A MINIMUM OF 3' OF FREE BOARD AT ALL TIMES.
3. RETENTION POND LOCATION & APPROXIMATE ONLY. SEE SHEET D-2 FOR DETAILS.
4. GRAVEL PIT DIVERSION SWALE LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR/OPERATOR SHALL MAINTAIN A SLOPE BETWEEN 0.5% AND 1.0% ON ALL PORTIONS OF SWALE. SEE SHEET D-2 FOR DETAILS.
5. GRAVEL LINED SWALE "A" SHALL CARRY UNIMPACTED STORM WATER FROM UNDISTURBED AREAS.
6. GRAVEL LINED SWALE "B" & "C" WILL BE CARRYING STORM WATER FROM DISTURBED AREAS ONLY.
7. NO PROCESS WATER SHALL BE COMINGLED WITH STORM WATER IN ANY OF THE SWALES.



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PLAN

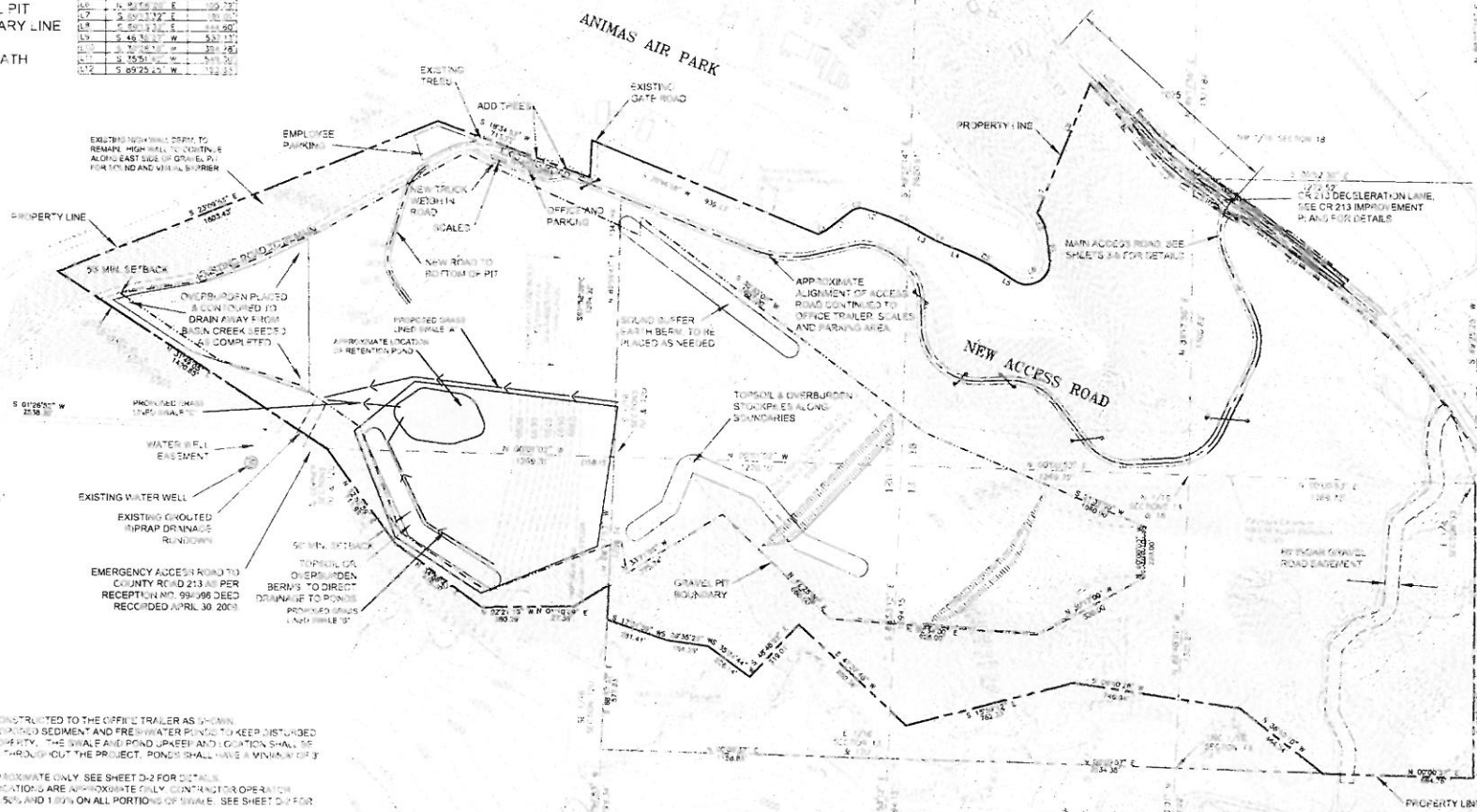
SHEET
O-1
2 OF X

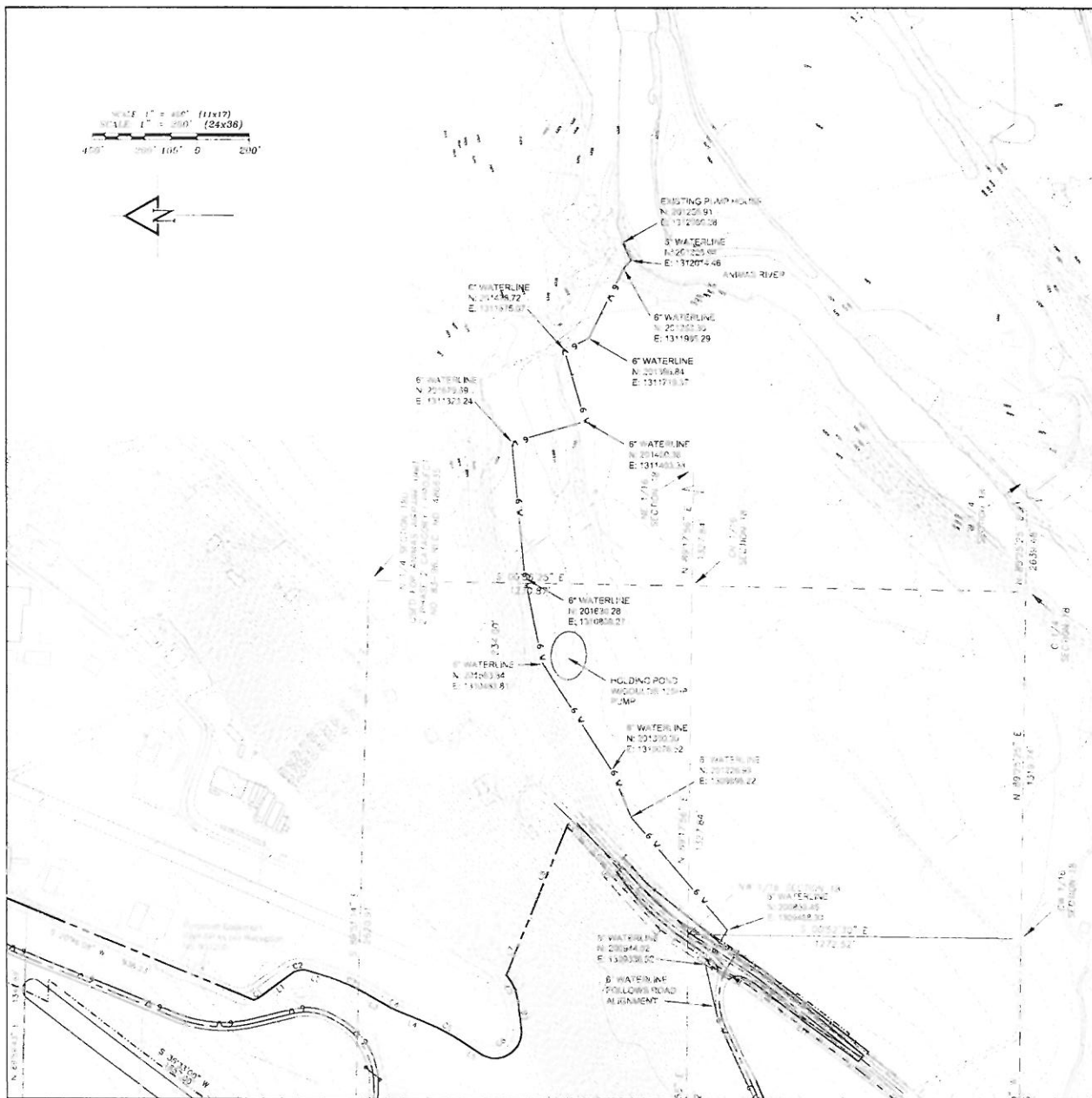
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Civil Engineering Office
934 Main Avenue, Suite C
Durango, Colorado 81301
Phone: (970) 246-4555
Fax: (970) 246-4552

ANIMAS GLACIER GRAVEL PIT SITE PLAN

Drawn/Checked: SW
Drafted by: 05-04-2012
DATE:

ACAD FILE:
REVISIONS:





GENERAL NOTES
 1. SEE SHEET D-1 FOR WATERLINE TRENCH DETAIL.
 2. 6\"/>



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 PLAN

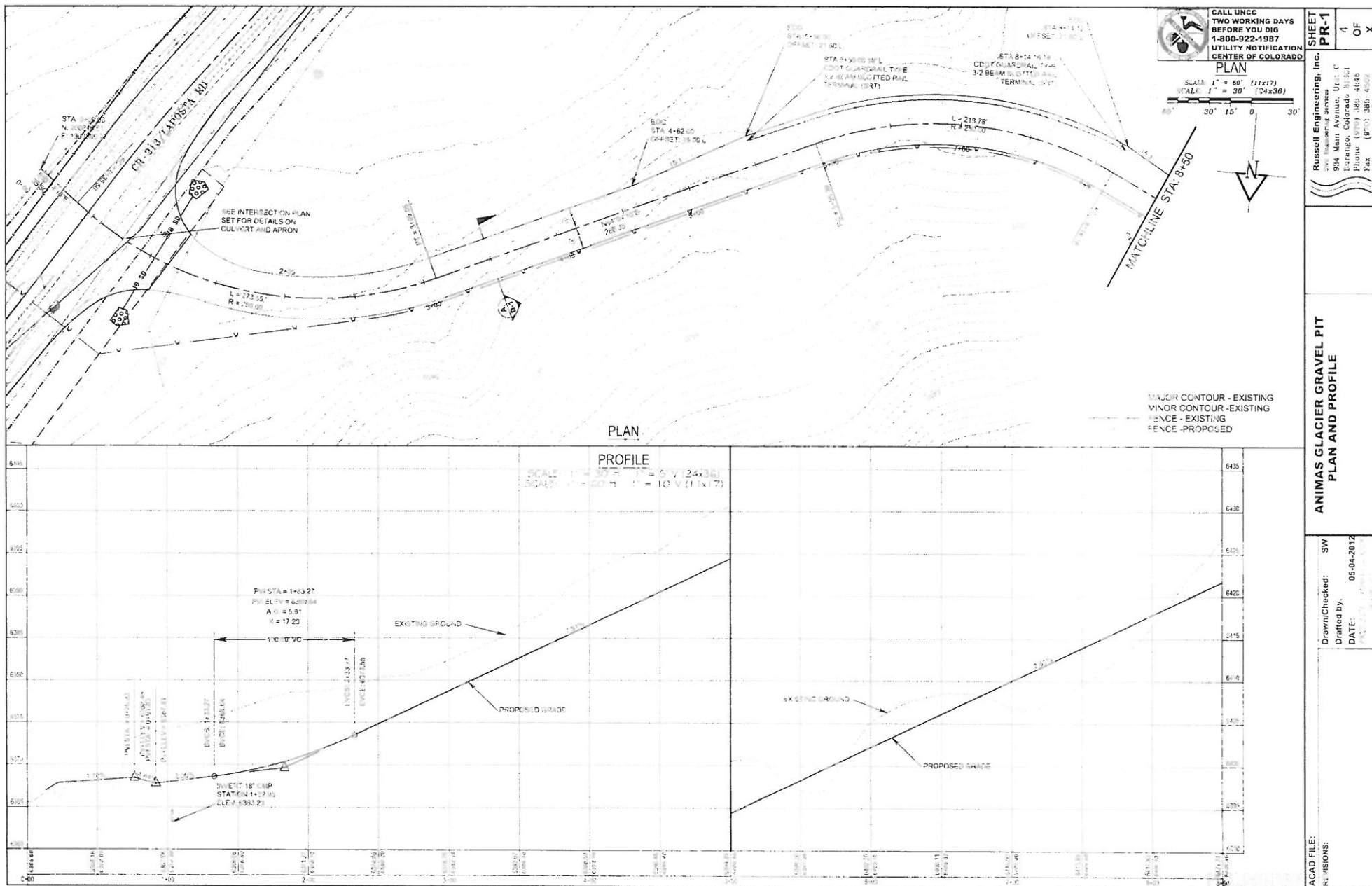
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0-2
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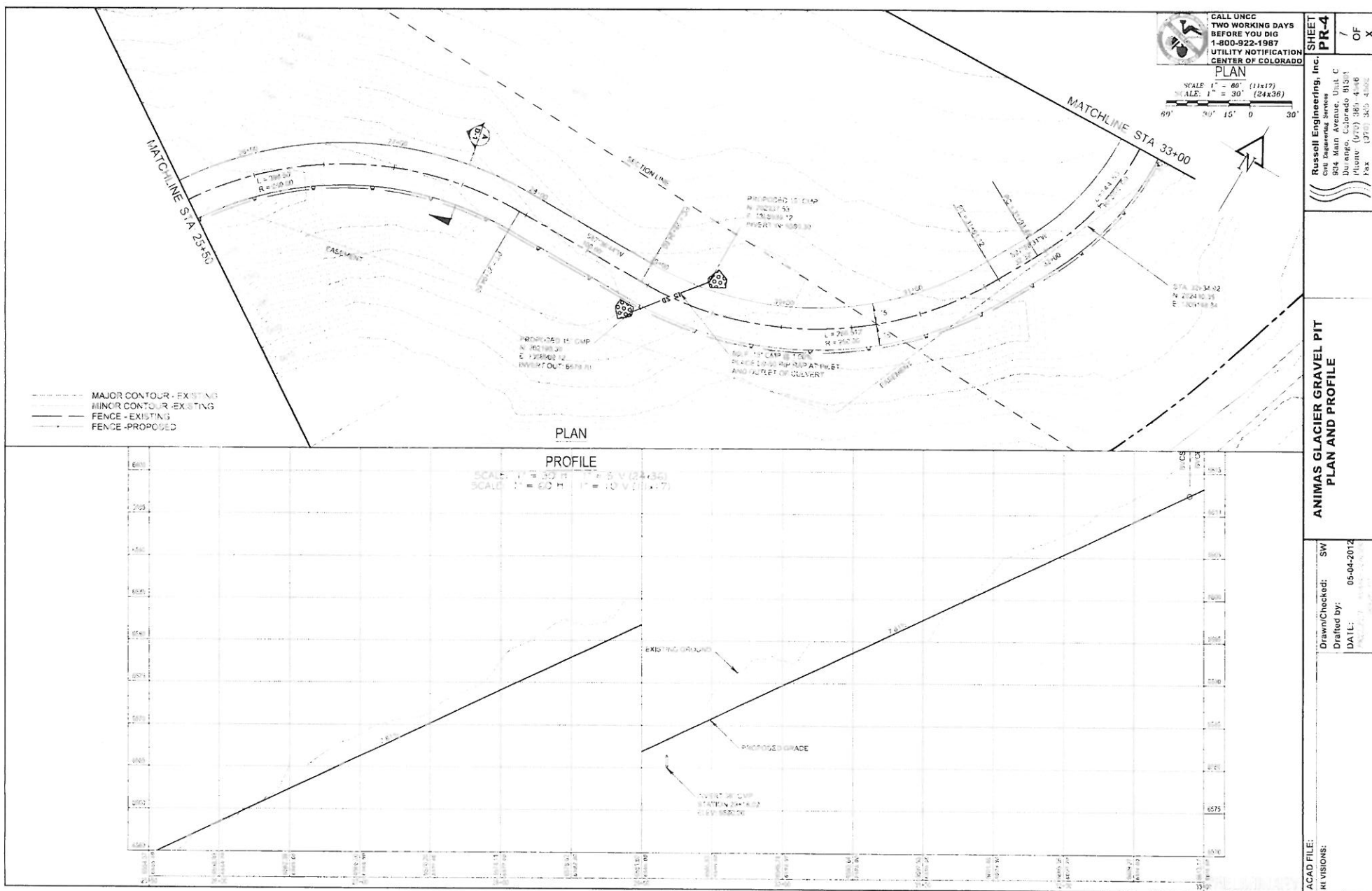
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 Civil Engineering Services
 934 Main Avenue, Unit C
 Durango, Colorado 81301
 Phone (970) 385-4546
 Fax (970) 385-4502

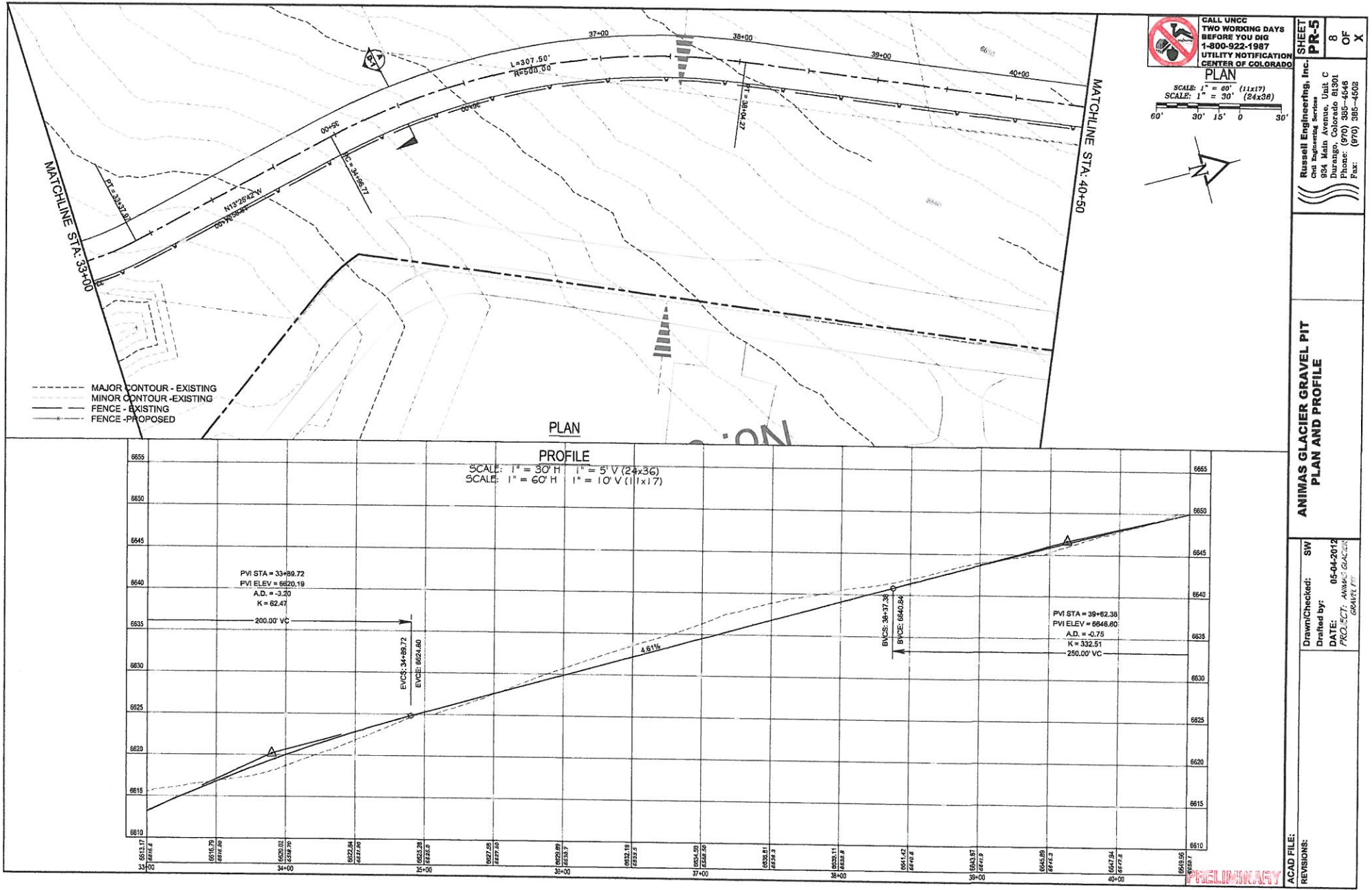
**ANIMAS GLACIER GRAVEL PIT
 OFFSITE WATER LINE**

Drawn/Checked: SW
 Drafted by:
 DATE: 05-04-2012

ACAD FILE:
 REVISIONS:





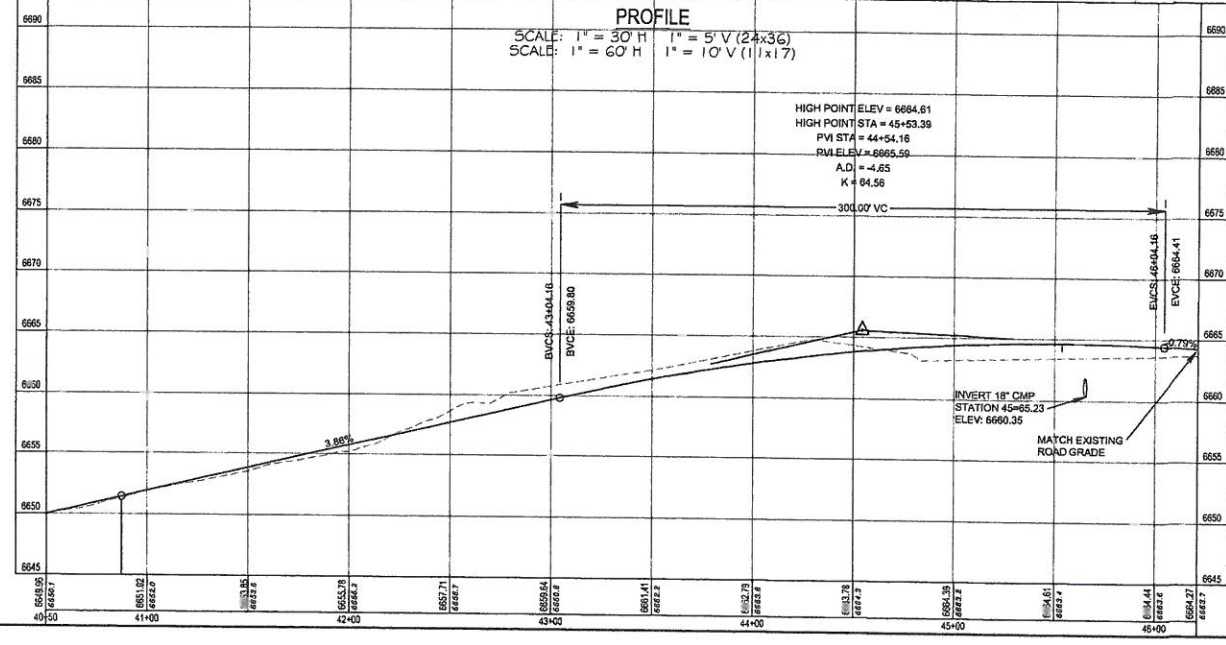
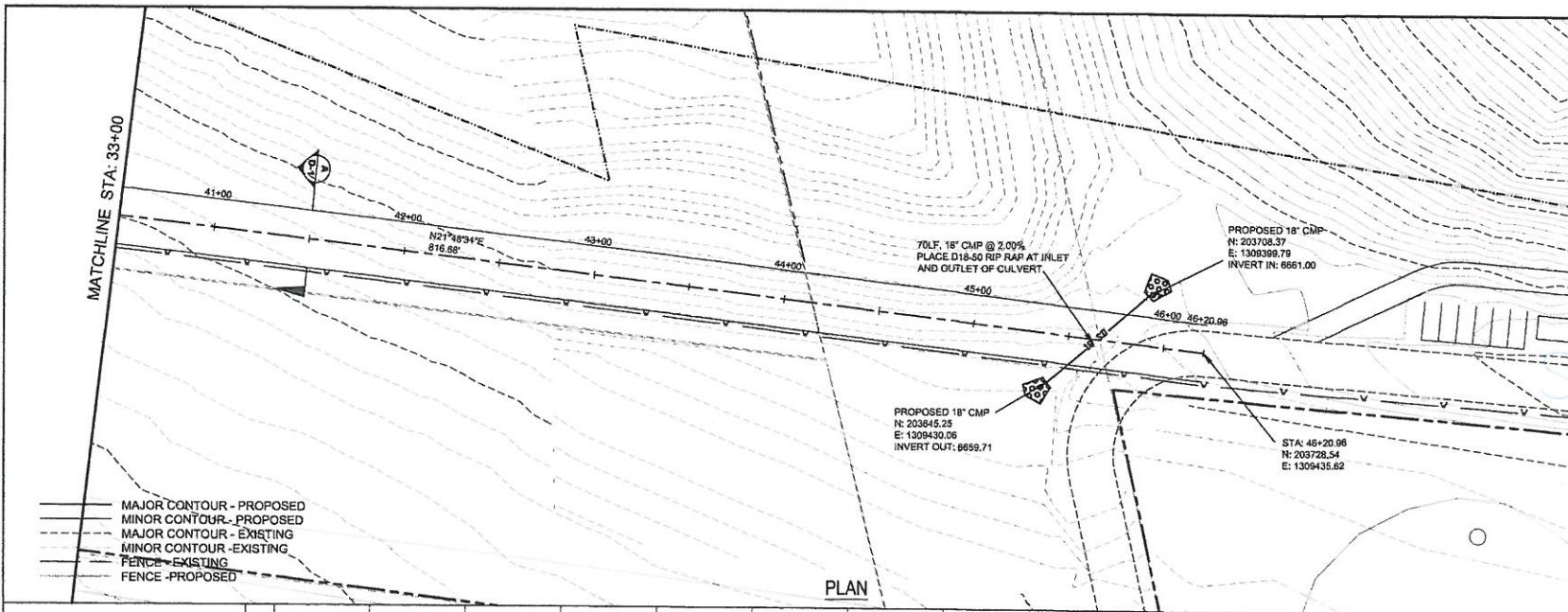


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CENTER OF COLORADO

PLAN
 SCALE: 1" = 60' (11x17)
 SCALE: 1" = 30' (24x36)

SHEET
PR-6
 9 OF X

Russell Engineering, Inc.
 Engineering Services
 904 East Main Street, Suite C
 Durango, Colorado 81301
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ANIMAS GLACIER GRAVEL PIT
PLAN AND PROFILE

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

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UTILITY NOTIFICATION
CENTER OF COLORADO
PLAN

SHEET
D-1
10
OF
X

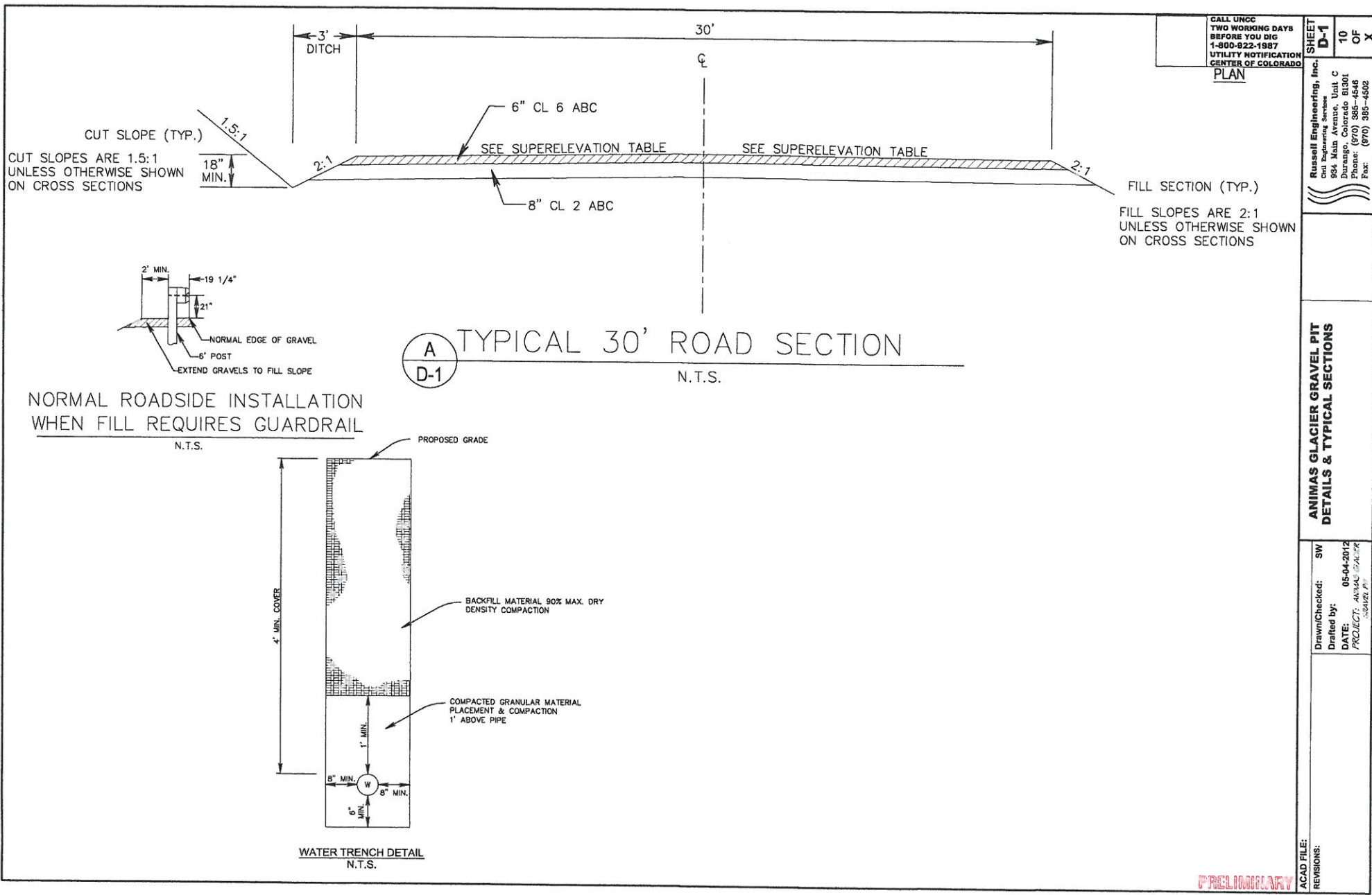
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Engineering Services
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Durango, Colorado 81301
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ANIMAS GLACIER GRAVEL PIT
DETAILS & TYPICAL SECTIONS

SW
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PROJECT: ANIMAS GLACIER
SARAH P.

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REVISIONS:

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CENTER OF COLORADO

PLAN

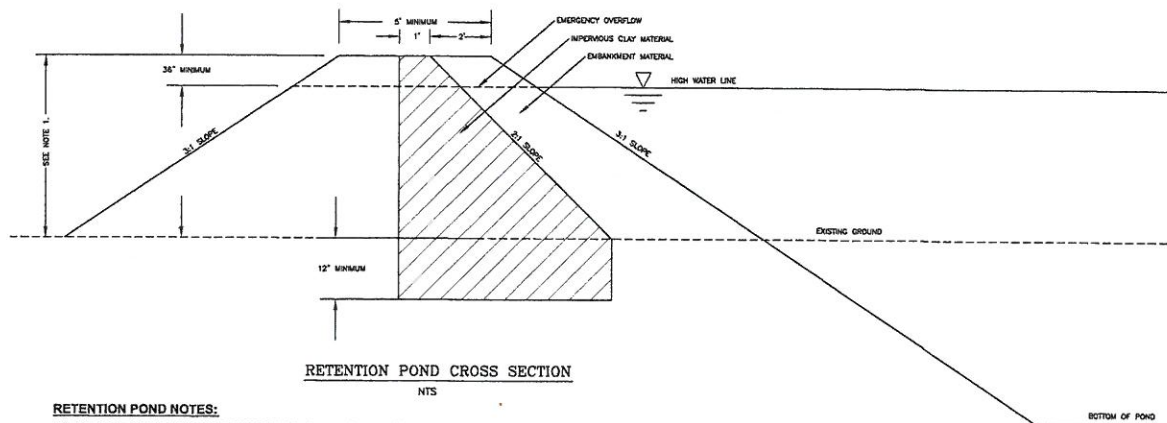
SHEET
D-2
11
OF
X

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Civil Engineering Services
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Durango, Colorado 81301
Phone: (970) 385-4500
Fax: (970) 385-4502

ANIMAS GLACIER GRAVEL PIT
DETAILS & TYPICAL SECTIONS

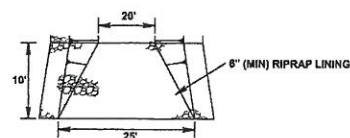
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Drafted by: 05-04-2012
DATE: ANIMAS GLACIER
PROJECT: GRAVEL PIT

ACAD FILE:
REVISIONS:

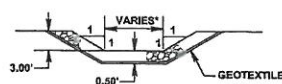


RETENTION POND NOTES:

1. POND IS INTENDED TO BE BUILT ENTIRELY WITHIN CUT. IF ADDITIONAL VOLUME IS NEEDED AND EMBANKMENT IS REQUIRED, THE CONTRACTOR SHALL CONSTRUCT THE FILL MATERIAL AS SHOWN, INCLUDING AN EMERGENCY SPILLWAY. IF POND REMAINS ENTIRELY WITHIN CUT, NO CONSIDERATION OF THIS DETAIL IS NECESSARY. HOWEVER, AN OUTLET SWALE SHALL BE CONSTRUCTED TO ALLOW ANY POTENTIAL OVERFLOWS TO EXIT THE POND IN A CONTROLLED CHANNEL.
2. CLAY AND EMBANKMENT MATERIAL SHALL BE COMPACTED TO 90% MODIFIED PROCTOR TEST (AASHTO T-99). EMBANKMENT MATERIAL SHALL BE WELL GRADED NATIVE MATERIAL FREE OF ROCKS GREATER THAN 3" IN DIAMETER.
3. SLOPES SHALL BE NO MORE THAN 3:1.
4. ALL GRADES AND ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND ENGINEER AT THE TIME OF CONSTRUCTION.
5. SEDIMENT SHALL BE REMOVED BY THE OWNER/CONTRACTOR AT REGULAR INTERVALS IN ORDER TO MAINTAIN ADEQUATE STORAGE VOLUMES.
6. STORAGE VOLUMES SHALL BE MEASURED BELOW THE EMERGENCY SPILLWAY.

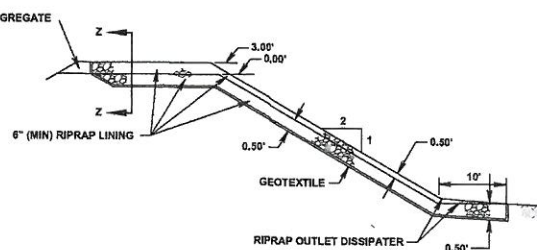


RIPRAP OUTLET DISSIPATER
PLAN VIEW



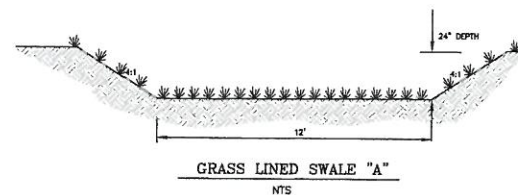
WEIR
SECTION Z-Z

PROVIDE 1' OF COARSE AGGREGATE
PRIOR TO RIP RAP



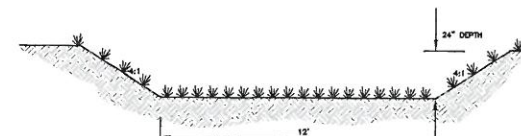
EMBANKMENT SECTION ALONG EMERGENCY SPILLWAY

SEDIMENT BASIN EMERGENCY SPILLWAYS
N.T.S.



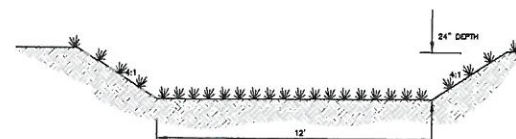
GRASS LINED SWALE "A"

NTS



GRASS LINED SWALE "B"

NTS



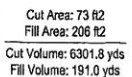
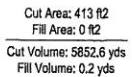
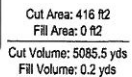
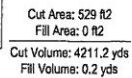
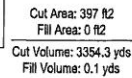
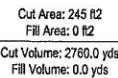
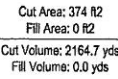
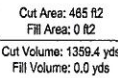
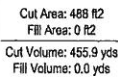
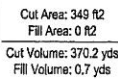
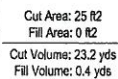
GRASS LINED SWALE "C"

NTS

SWALE NOTES:

1. ALL SWALES SHALL HAVE A MINIMUM SLOPE OF 0.50% AND A MAXIMUM SLOPE OF 1.00%.
2. ALL SWALES SHALL HAVE A MAXIMUM SIDE SLOPE OF 4:1.
3. CONTRACTOR SHALL CONSULT WITH ENGINEER PRIOR TO ANY DEVIATION FROM THESE REQUIREMENTS

PRELIMINARY



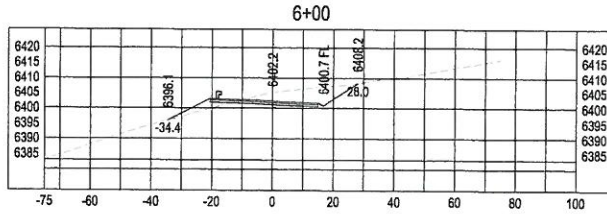
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ANIMAS GLACIER GRAVEL PIT
CROSS SECTIONS

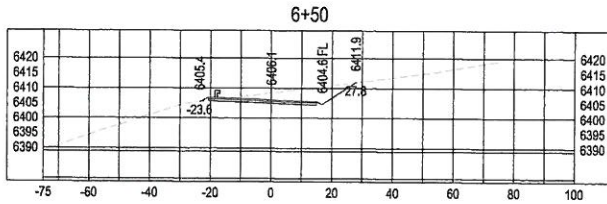
Drawn/Checked:	SW
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PROJECT:	ANIMAS GLACIER GRAVEL PIT

ACAD FILE:
REVISIONS:

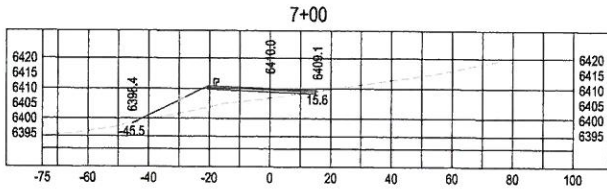
PRELIMINARY



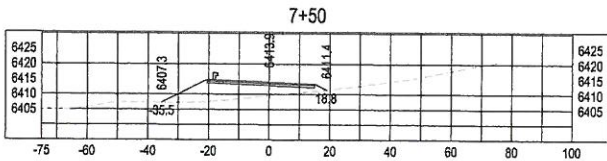
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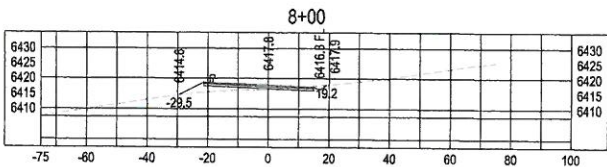
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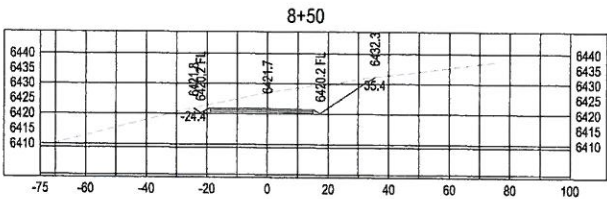
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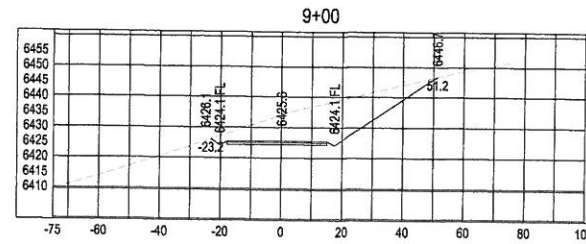
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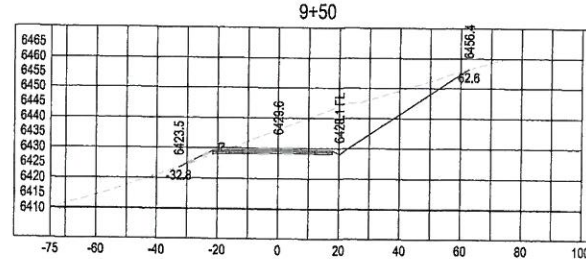
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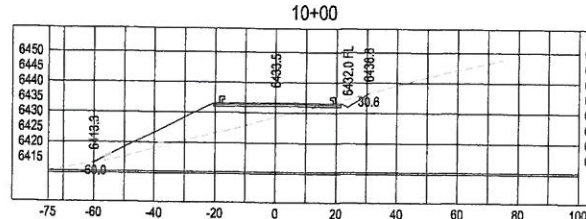
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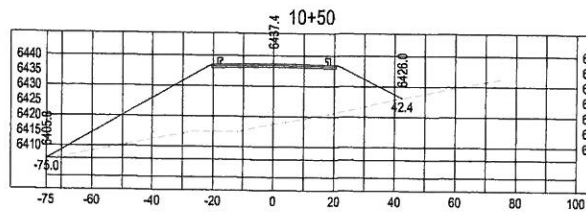
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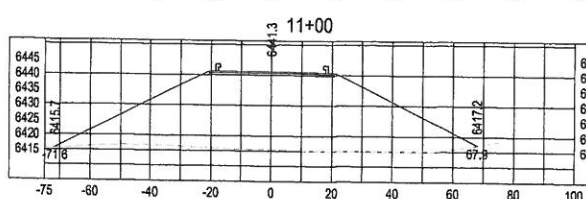
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Fill Volume: 1575.6 yds



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Fill Area: 1513 ft²
Cut Volume: 9816.2 yds
Fill Volume: 3308.8 yds



Cut Area: 0 ft²
Fill Area: 2280 ft²
Cut Volume: 9816.2 yds
Fill Volume: 6821.0 yds



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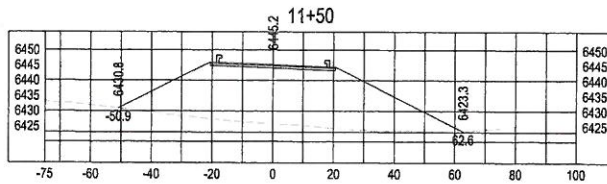
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ANIMAS GLACIER GRAVEL PIT CROSS SECTIONS

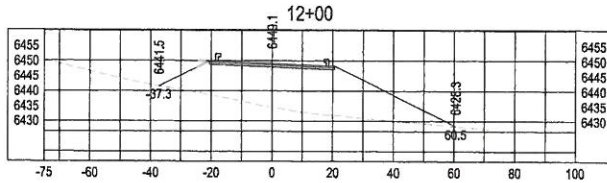
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Drawn/Checked by: 05-04-2012
Drafted by: DATE: PROJECT: ANIMAS GLACIER
GRAVEL PIT

ACAD FILE:
REVISIONS:

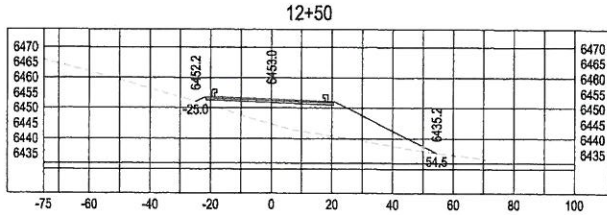
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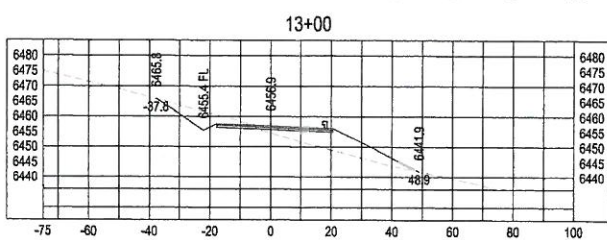
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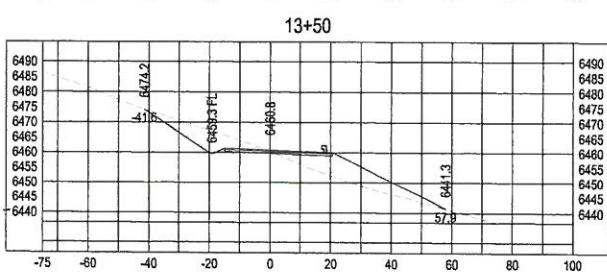
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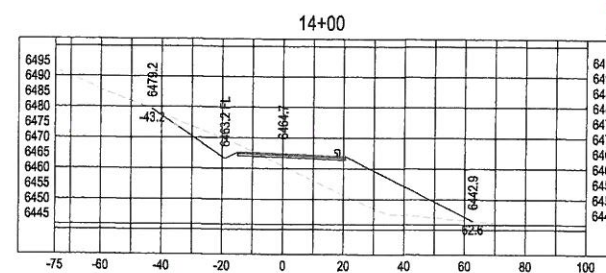
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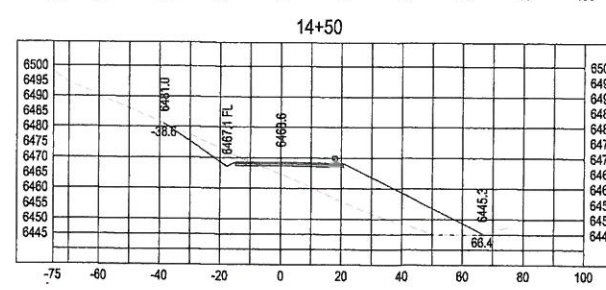
Cut Area: 98 ft²
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Cut Volume: 9911.1 yds
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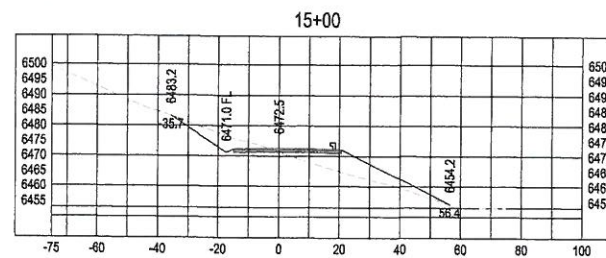
Cut Area: 160 ft²
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Fill Volume: 14637.2 yds



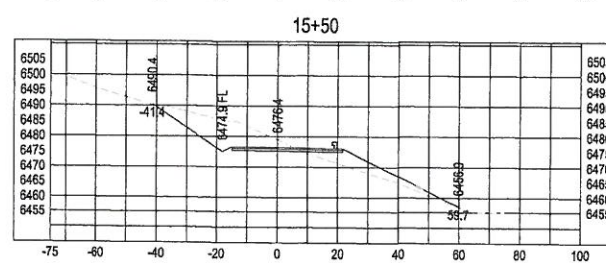
Cut Area: 108 ft²
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Cut Volume: 10439.4 yds
Fill Volume: 15229.0 yds



Cut Area: 77 ft²
Fill Area: 544 ft²
Cut Volume: 10610.7 yds
Fill Volume: 16188.6 yds



Cut Area: 100 ft²
Fill Area: 188 ft²
Cut Volume: 10773.9 yds
Fill Volume: 16668.1 yds



Cut Area: 275 ft²
Fill Area: 117 ft²
Cut Volume: 11120.5 yds
Fill Volume: 17148.3 yds



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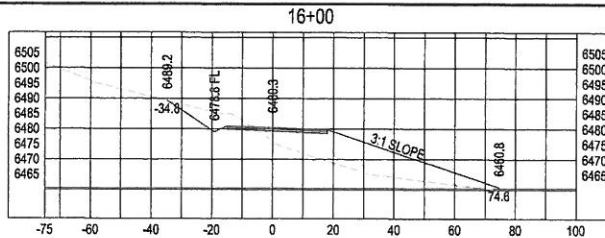
SHEET
X5-3
14 OF **X**

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Civil Engineering Services
834 Main Avenue, Unit C
Durango, Colorado 81301
Phone: (970) 386-4546
Fax: (970) 386-4502

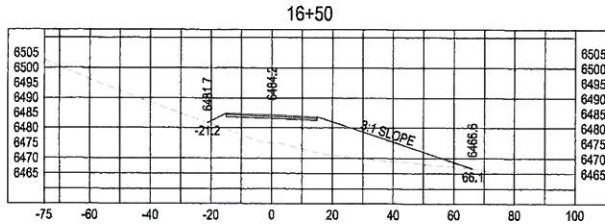
ANIMAS GLACIER GRAVEL PIT
CROSS SECTIONS

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

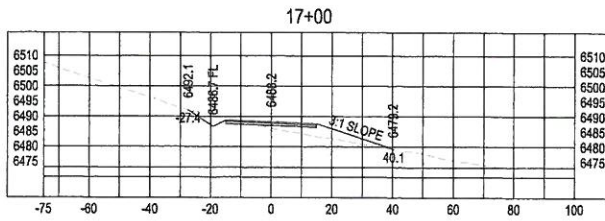
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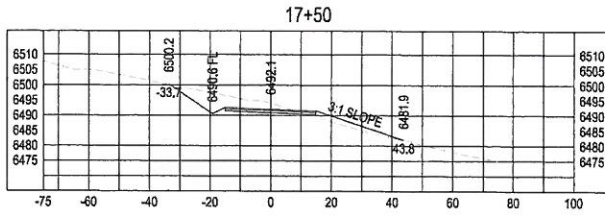
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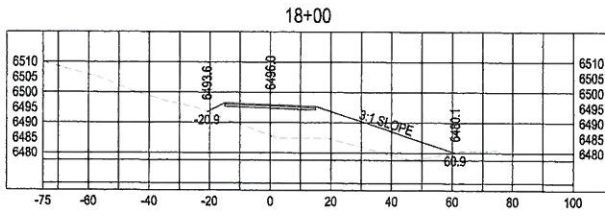
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Cut Volume: 11593.0 yds
Fill Volume: 18524.3 yds



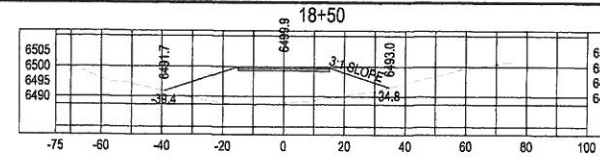
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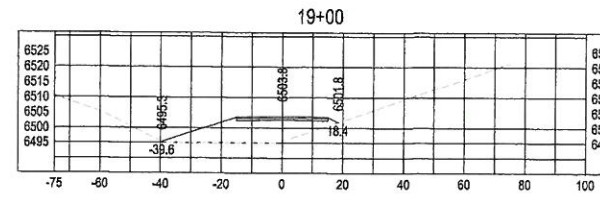
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Cut Volume: 11806.8 yds
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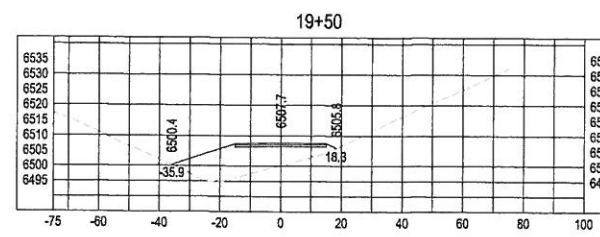
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Fill Area: 576 ft²
Cut Volume: 11951.5 yds
Fill Volume: 19705.8 yds



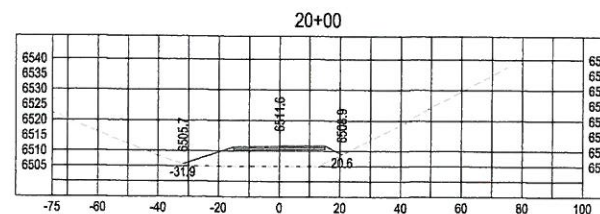
Cut Area: 0 ft²
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Fill Volume: 20772.4 yds



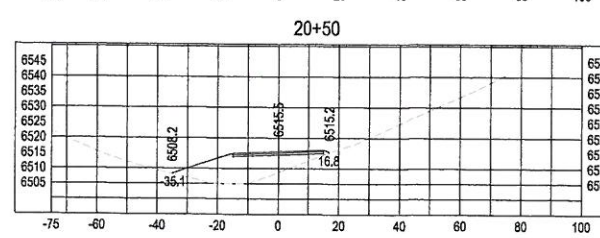
Cut Area: 0 ft²
Fill Area: 290 ft²
Cut Volume: 11951.5 yds
Fill Volume: 21574.5 yds



Cut Area: 0 ft²
Fill Area: 346 ft²
Cut Volume: 11951.5 yds
Fill Volume: 22163.7 yds



Cut Area: 0 ft²
Fill Area: 234 ft²
Cut Volume: 11951.5 yds
Fill Volume: 22701.1 yds



Cut Area: 0 ft²
Fill Area: 276 ft²
Cut Volume: 11951.5 yds
Fill Volume: 23172.9 yds

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Cut Area: 0 ft²
Fill Area: 576 ft²
Cut Volume: 11951.5 yds
Fill Volume: 20772.4 yds

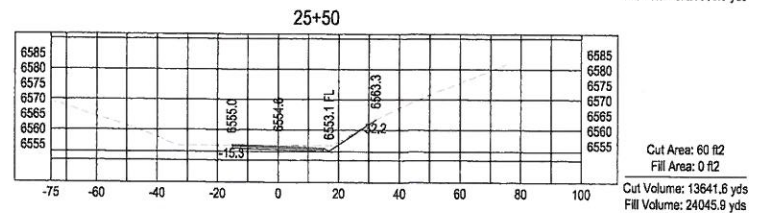
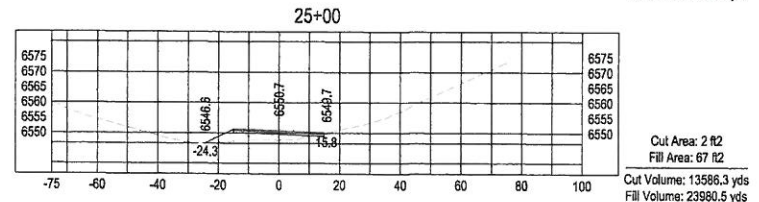
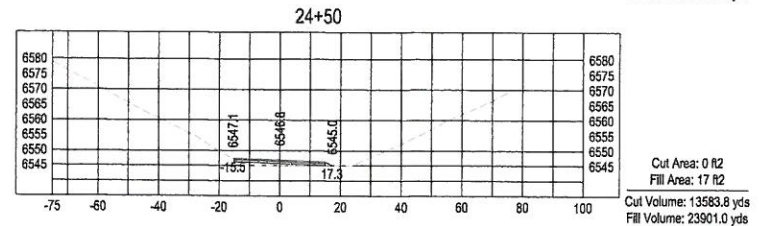
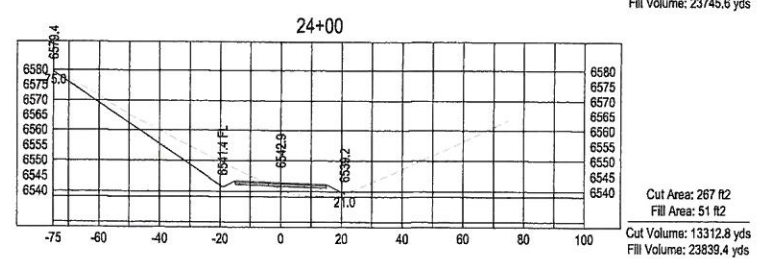
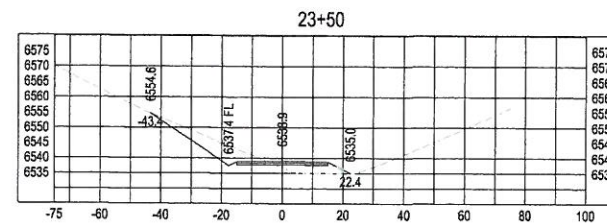
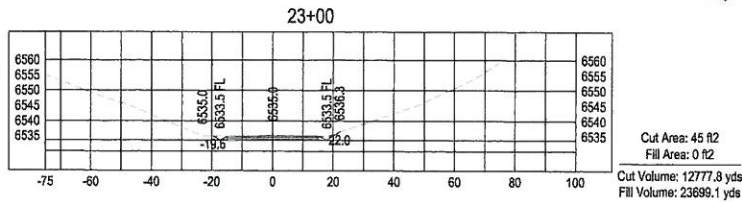
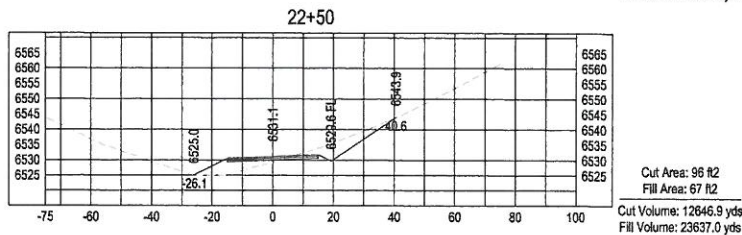
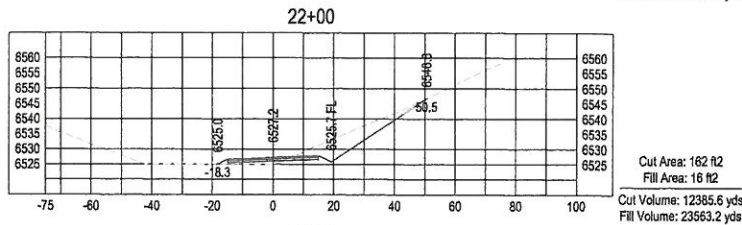
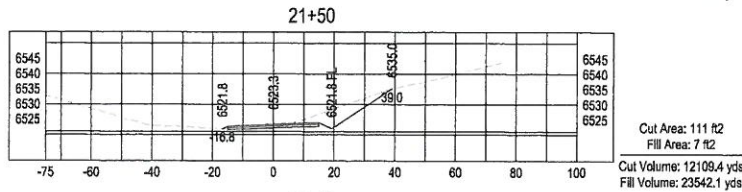
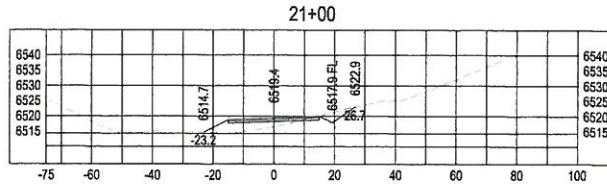
Russell Engineering, Inc.
Civil Engineering Services
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Phone: (970) 385-4546
Fax: (970) 385-4502

ANIMAS GLACIER GRAVEL PIT CROSS SECTIONS

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DATE: 05-04-2012
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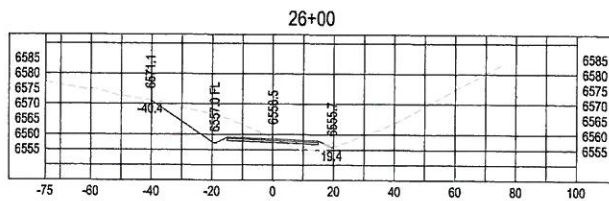
SHEET
X5-5
16
OF
X

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1000 West 1st Ave.
Durango, Colorado 81301
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Fax: (970) 385-4549

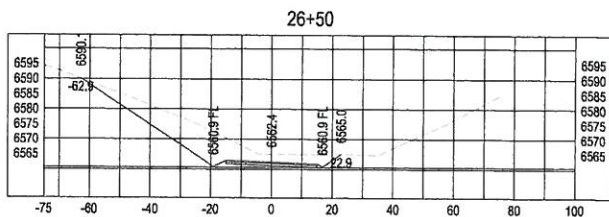
ANIMAS GLACIER GRAVEL PIT
CROSS SECTIONS

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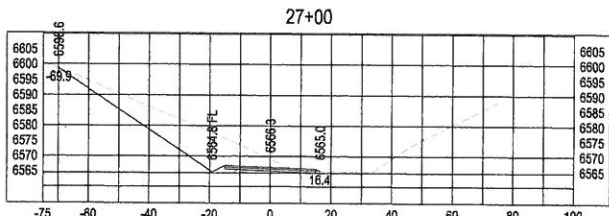
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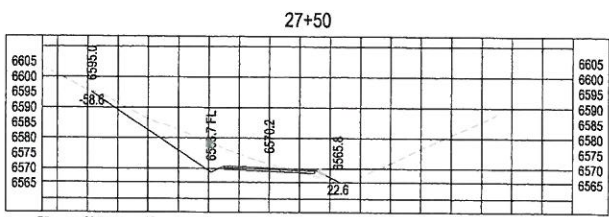
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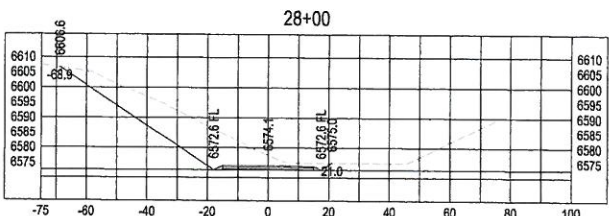
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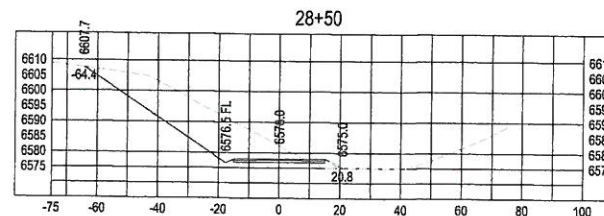
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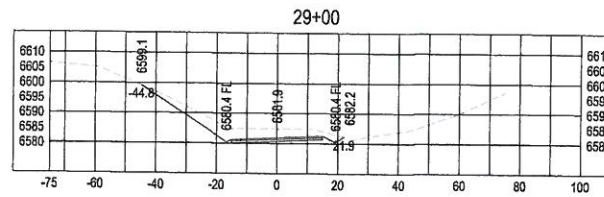
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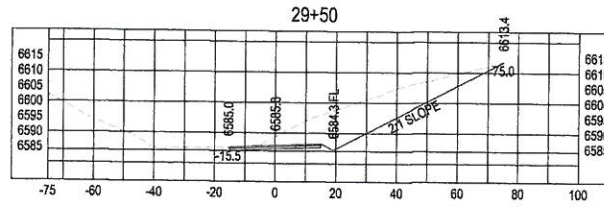
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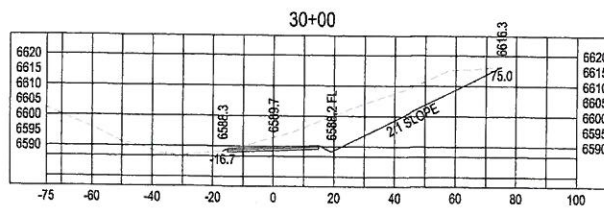
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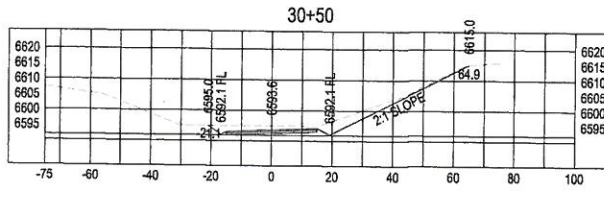
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Cut Volume: 19337.7 yds
Fill Volume: 24130.6 yds



Cut Area: 582 ft²
Fill Area: 0 ft²
Cut Volume: 20111.1 yds
Fill Volume: 24130.6 yds



Cut Area: 594 ft²
Fill Area: 1 ft²
Cut Volume: 21331.3 yds
Fill Volume: 24131.2 yds



Cut Area: 163 ft²
Fill Area: 0 ft²
Cut Volume: 22093.2 yds
Fill Volume: 24131.7 yds



SHEET XS-6
17 OF X
Russell Engineering, Inc.
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ANIMAS GLACIER GRAVEL PIT CROSS SECTIONS

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XS-7
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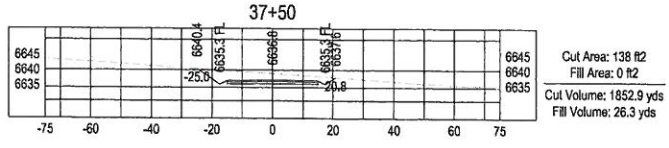
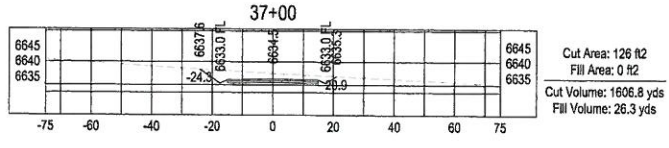
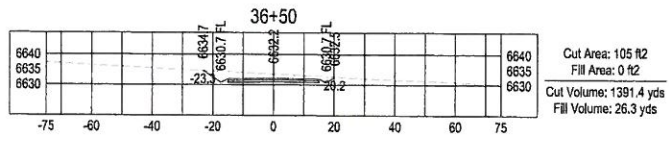
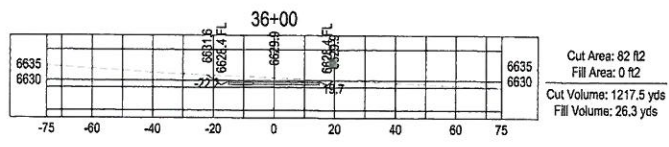
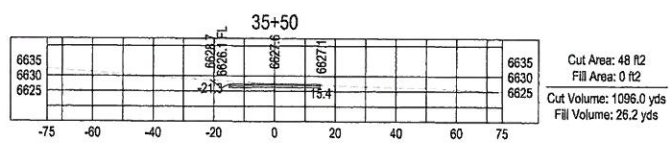
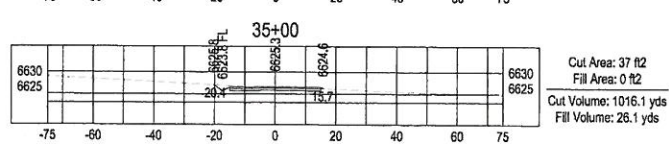
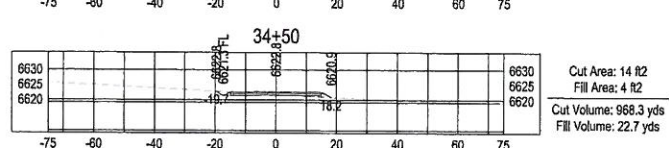
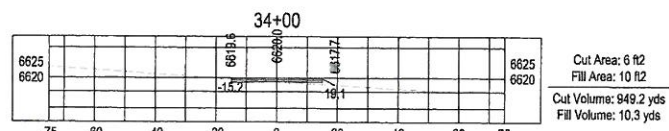
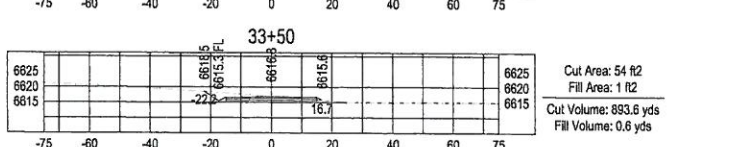
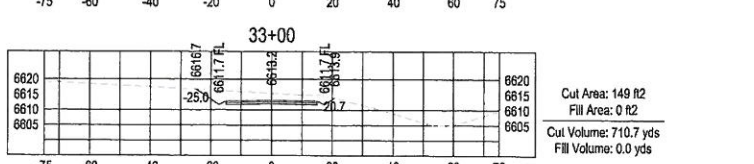
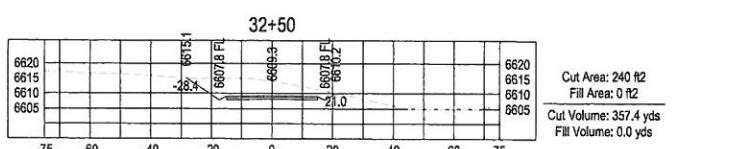
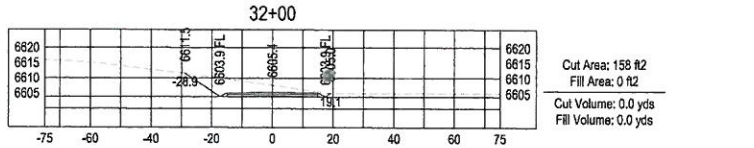
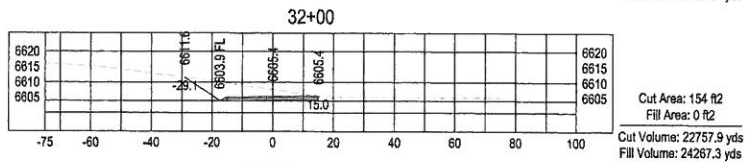
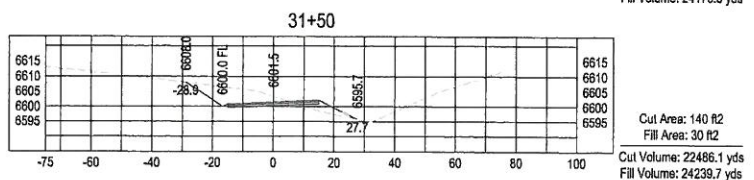
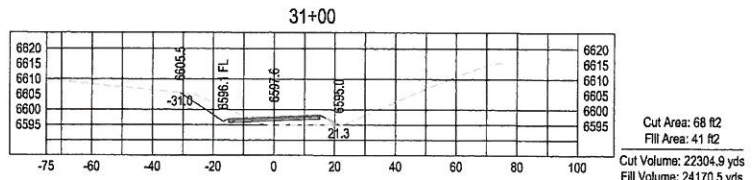
Russell Engineering, Inc.
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ANIMAS GLACIER GRAVEL PIT
CROSS SECTIONS

Drawn/Checked: SW
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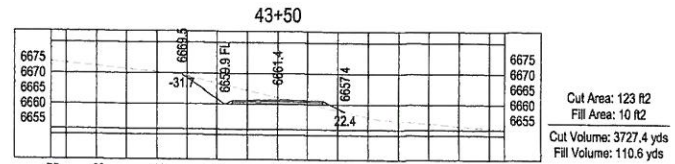
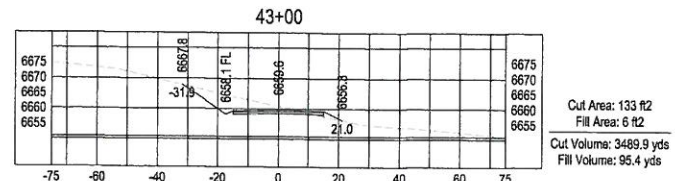
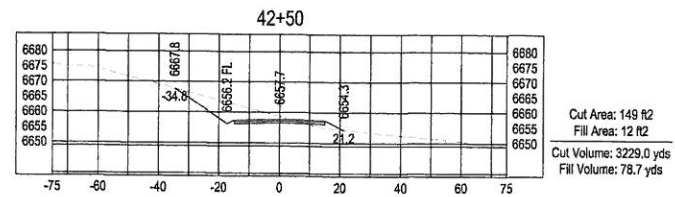
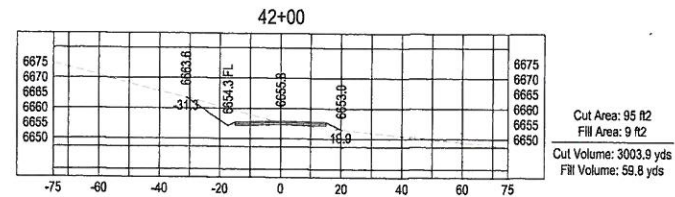
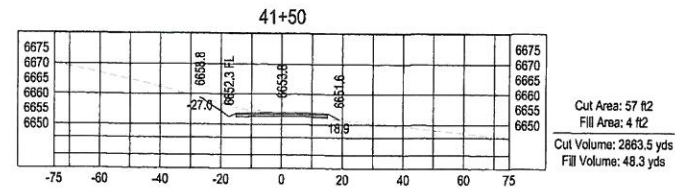
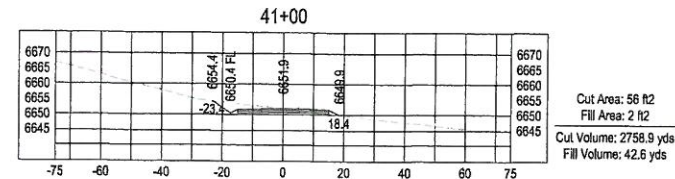
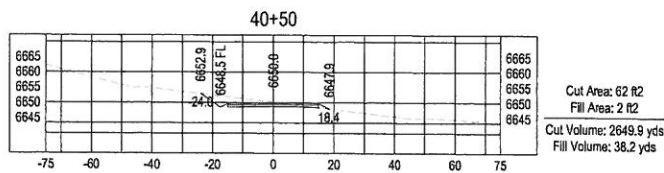
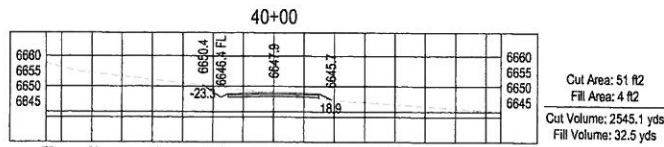
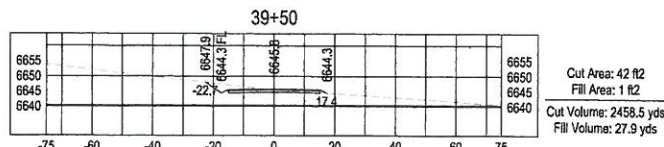
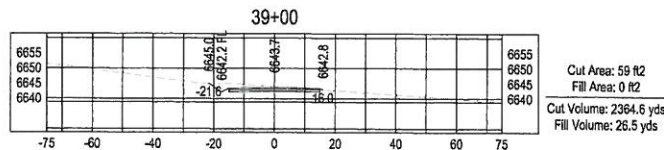
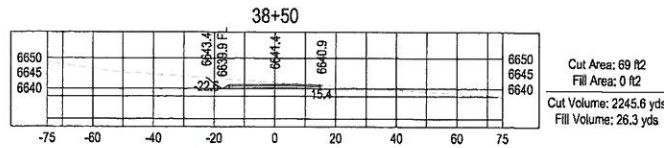
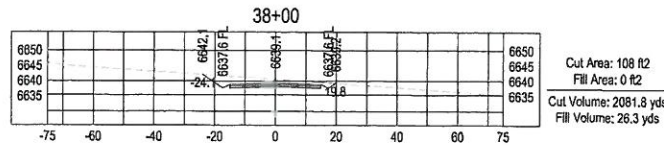
Russell Engineering, Inc.
Civil Engineering Services
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Boulder, Colorado 80301
Phone: (303) 440-8800
Fax: (303) 440-4502

ANIMAS GLACIER GRAVEL PIT
CROSS SECTIONS

Drawn/Checked: SW
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PROJECT: ANIMAS GLACIER
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