

**State of Illinois**  
**Department of Natural Resources**  
**Office of Mines and Minerals**  
**Division of Abandoned Mined Lands**

Funded by the  
 United States Department of Interior  
 Federal Office of Surface Mining

**Eagle Strip Mine Reclamation Project**  
**AML-GGaE-0420**  
**Gallatin County**  
**1LR**



**Eagle Strip Mine**  
**Gallatin County**


**PRE-BID SITE ACCESS**  
 DUE TO RESTRICTED ACCESS, THE GATE AT PEABODY ROAD WILL  
 BE OPENED FROM 9 A.M. TO 3 P.M. WEDNESDAY, FEBRUARY 28, 2007,  
 AND THURSDAY, MARCH 1, 2007. SEE SHEET 3 FOR GATE LOCATION.  
 ALL INTERESTED BIDDERS ARE ENCOURAGED TO VISIT THE SITE AT  
 THIS TIME TO BECOME FAMILIARIZED WITH THE EXISTING CONDITIONS  
 AND THE PROPOSED RECLAMATION WORK.

**SCHEDULE OF DRAWINGS:**

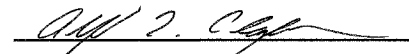
- 1. Cover Sheet
- 2. Summary of Quantities/General Notes/Location Map
- 3. Site Information
- 4.-6. Existing Conditions
- 7.-9. Proposed Conditions
- 10.-31. Cross Sections
- 32. Details

Prepared By IDNR Staff

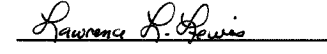
Approved for Bidding:

  
 Joe Angleton, Director  
 Office of Mines and Minerals

Approved By:

  
 Alfred L. Clayborne, Manager  
 AMLR Division

Approved By:

  
 Lawrence L. Lewis, P.E.  
 IL Licensed Professional Engineer  
 No. 0062-038880



Summary of Quantities					
#	Item	Section	Quantity	Unit	Rates/Remarks
1	Special Clearing	201	1	L.S.	
2	Earth Excavation	202	301,865	C.Y.	COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS
3	Seeding	250	32.4	ACRE	
4	Nitrogen Fertilizer Nutrient	250	6,480	POUND	100 LB / ACRE - TWICE
5	Phosphorus Fertilizer Nutrient	250	4,860	POUND	150 LB / ACRE
6	Potassium Fertilizer Nutrient	250	11,340	POUND	350 LB / ACRE
7	Agricultural Ground Limestone	250	162.0	TON	5 TON / ACRE
8	Mulch, Method 2, Procedure 2	IDOT 251	32.4	ACRE	2 TON / ACRE
9	Mowing	258	32.4	ACRE	
10	Temporary Ditch Checks	280	6	EACH	RIPRAP, A-4
11	Perimeter Erosion Barrier	280	150	FOOT	
12	Stone Riprap, A-3	IDOT 281	221.5	TON	
13	Stone Riprap, A-4	IDOT 281	846.3	TON	
14	Filter Fabric	IDOT 282	1,462	S.Y.	
15	Special Excelsior Blanket	286	16,702	S.Y.	8' WIDTH
16	Aggregate Surface Course, Type B	IDOT 402	29.1	TON	CA-6
17	Pipe Culvert, 24" Diameter, PE with Smooth Interior, Type 1	IDOT 542	90	FOOT	METHOD III CONSTRUCTION
18	Pipe Culvert, 18" Diameter, PE with Smooth Interior, Type 1	IDOT 542	60	FOOT	METHOD III CONSTRUCTION
19	Mobilization	671	1	L.S.	MAX. 6% OF BID

**GENERAL NOTES**

Unless otherwise noted on the plans, all disturbed areas within the construction limits will be amended with agricultural ground limestone, fertilizer nutrients, seeded and mulched at the required rates specified in the plans.

The contractor is responsible for visiting the site and familiarizing himself with the existing conditions and the proposed reclamation work prior to submitting a bid.

The contractor shall provide and pay for all field engineering services to execute the project as specified in the Field Engineering section of the Special Provisions.

The contractor is responsible for locating and protecting all existing utility lines pertaining to the work.

Unless noted on the plans, all onsite access roads may be used for construction and must be maintained during construction. Access roads to the site as designated on the plans are to be maintained to the satisfaction of the engineer.

The construction limits will be staked by the contractor prior to construction. The contractor is responsible for the repair and / or restitution at his own expense for all damages done to any area outside the construction limits.

Application rates specified in the plans are shown in the Summary of Quantities-Rates/Remarks column.

**CONSTRUCTION NOTES**

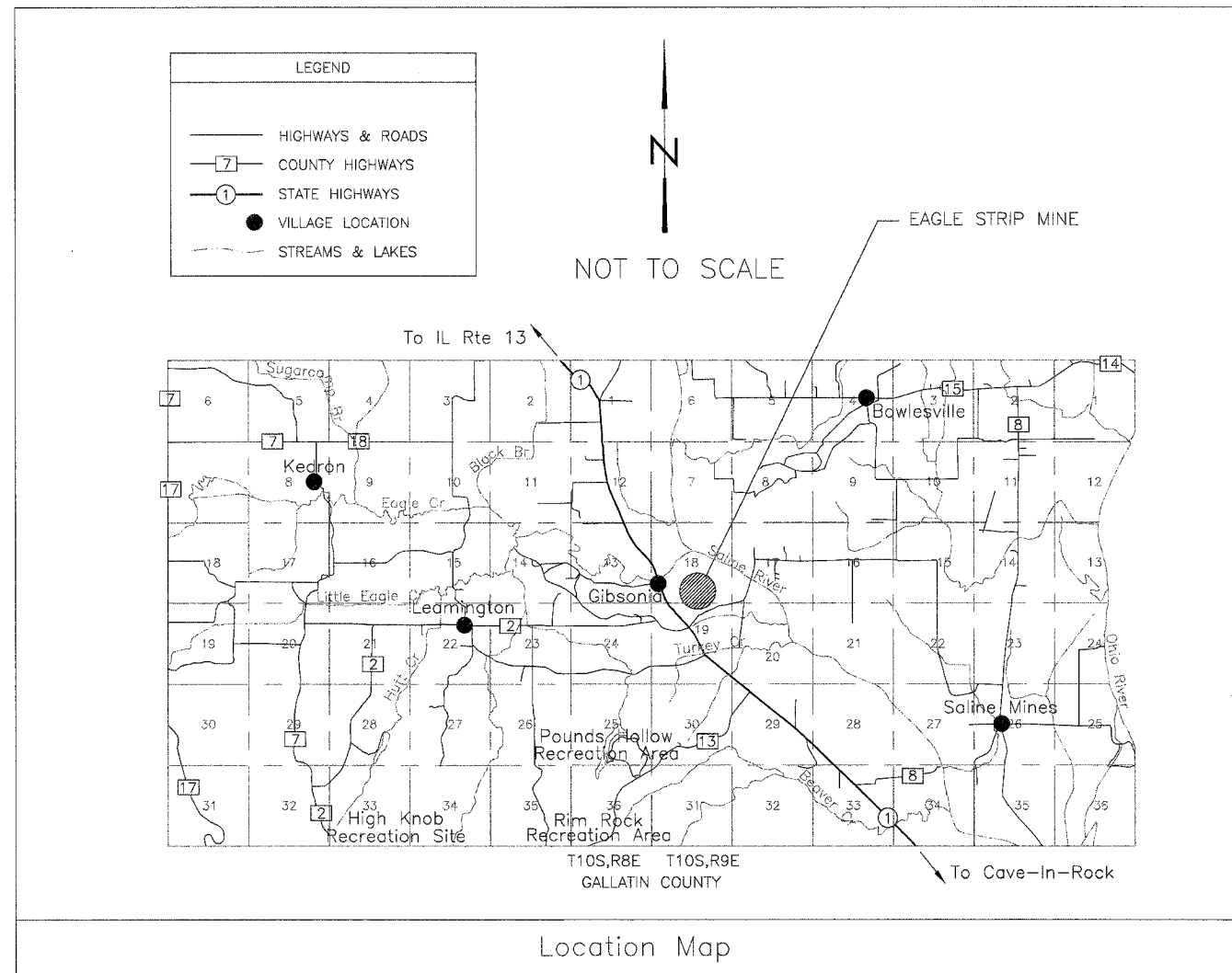
**BURIAL/REMOVAL OF MATERIAL**-Concrete and masonry debris designated for burial by the engineer shall be buried at least three feet below proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer approved offsite landfill in accordance with Sections 201 and 501 of the Special Provisions.

**TREE REMOVAL**-Trees removed shall be disposed of onsite per Section 201 of the Special Provisions.

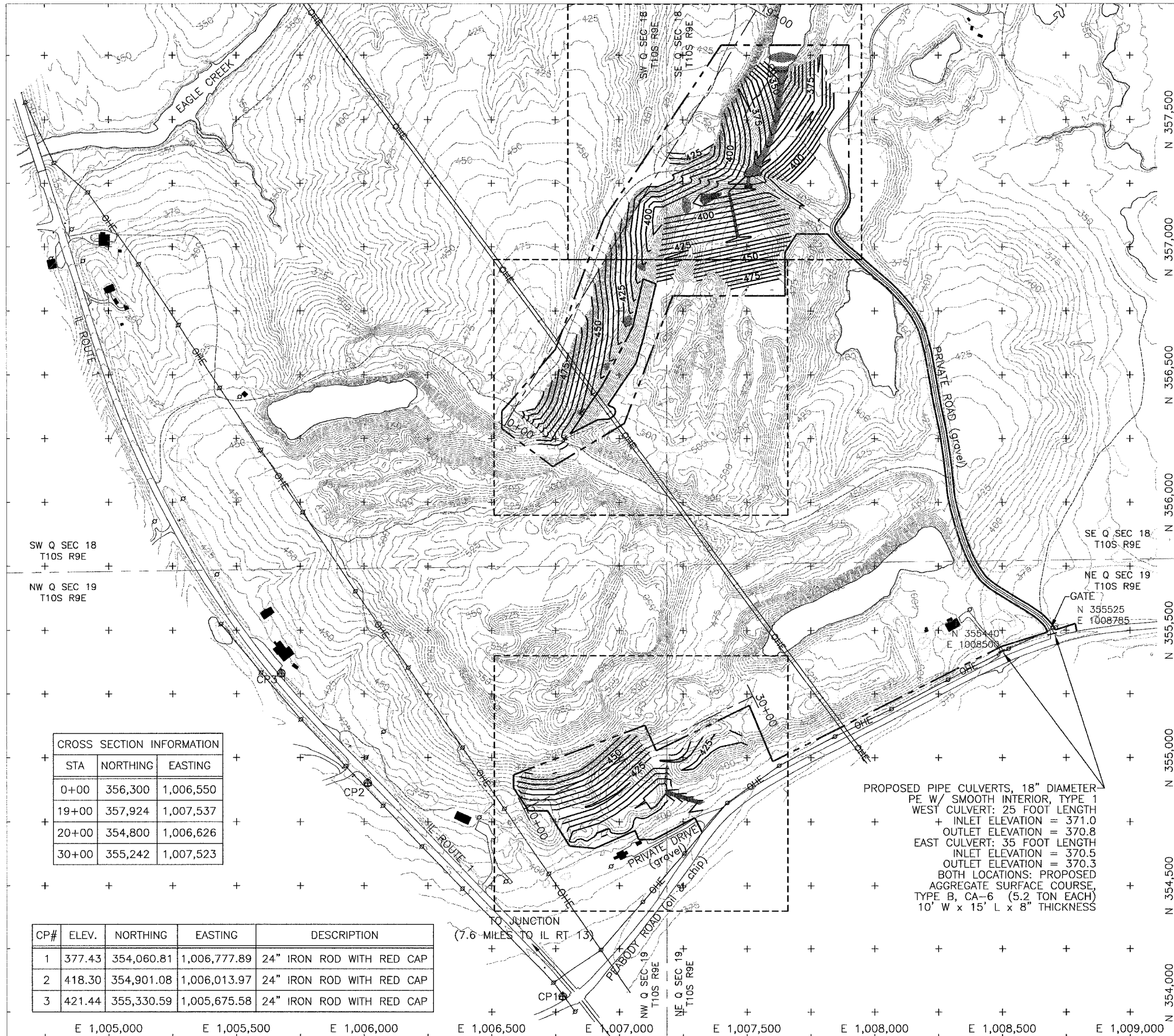
**EROSION CONTROL**-The contractor shall schedule his operations and take such precautions that may be necessary to prevent or minimize erosion. Failure to comply with this requirement shall cause the contractor to be fully responsible for repairing any eroded areas and cleaning up areas or drainage structures that have become silted in or damaged.

**AGRICULTURAL GROUND LIMESTONE**-Immediately prior to seed bed preparation, fertilizer nutrients and agricultural ground limestone shall be uniformly spread at the rates specified in the plans.

**MULCHING**-Within 24 hours from the time seeding has been performed, the seeded area shall be given a covering of mulch at the rates specified in the plans. The mulch is to be anchored into the soil in accordance with the requirements for method 2, procedure 2 of Article 251.03 of the Standard Specifications. If Excelsior or Special Excelsior Blanket is to be used, the blanket shall be placed the same day that the areas are seeded.



Schedule of Seeding, Fertilizer Nutrients and Mulch						
ITEM (unit)	INITIAL APPLICATION		SECOND APPLICATION		MOWING SUMMER 2008 (EXACT DATE TO BE SET BY ENGINEER)	TOTAL QUANTITY
	NORTH SITE FALL 2007 AUG 20 - SEPT 30	SOUTH SITE SPRING 2008 JAN 1 - MARCH 15	NORTH SITE SPRING 2008 JAN 1 - MARCH 15	SOUTH SITE FALL 2008 AUG 20 - SEPT 30		
SEEDING (acres)	21.9	10.5				32.4
NITROGEN FERTILIZER NUTRIENT (pounds)	2,190	1,050	2,190	1,050		6,480
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	3,285	1,575				4,860
POTASSIUM FERTILIZER NUTRIENT (pounds)	7,665	3,675				11,340
AGRICULTURAL GROUND LIMESTONE (tons)	109.5	52.5				162.0
MULCH, METHOD 2 PROCEDURE 2 (acres)	21.9	10.5				32.4
MOWING (acres)					32.4	32.4



CROSS SECTION INFORMATION		
STA	NORTHING	EASTING
0+00	356,300	1,006,550
19+00	357,924	1,007,537
20+00	354,800	1,006,626
30+00	355,242	1,007,523

CP#	ELEV.	NORTHING	EASTING	DESCRIPTION
1	377.43	354,060.81	1,006,777.89	24" IRON ROD WITH RED CAP
2	418.30	354,901.08	1,006,013.97	24" IRON ROD WITH RED CAP
3	421.44	355,330.59	1,005,675.58	24" IRON ROD WITH RED CAP

PROPOSED PIPE CULVERTS, 18" DIAMETER PE W/ SMOOTH INTERIOR, TYPE 1 WEST CULVERT: 25 FOOT LENGTH + INLET ELEVATION = 371.0 OUTLET ELEVATION = 370.8 EAST CULVERT: 35 FOOT LENGTH INLET ELEVATION = 370.5 OUTLET ELEVATION = 370.3 BOTH LOCATIONS: PROPOSED AGGREGATE SURFACE COURSE, TYPE B, CA-6 (5.2 TON EACH) 10' W x 15' L x 8" THICKNESS

- ### Notes
1. CONSTRUCTION LIMITS TO ACCESS THE NORTH SITE FOLLOW THE EXISTING ROAD (20' WIDTH). THE CONTRACTOR SHALL MAINTAIN EXISTING ROADS THROUGHOUT CONSTRUCTION AND RESTORE TO ORIGINAL OR BETTER CONDITION THE ROADS AT THE COMPLETION OF WORK.
  2. ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS ARE TO BE SEEDED EXCEPT THE ACCESS ROAD TO THE NORTH SITE, WHICH WILL BE MAINTAINED AS NOTED ABOVE.
  3. THE TWO PROPOSED PIPE CULVERTS REPLACE EXISTING ENTRANCE CULVERTS. THE EXISTING CULVERTS SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH SECTION 201 OF THE SPECIAL PROVISIONS. THE REMOVAL AND DISPOSAL SHALL BE INCIDENTAL TO THE PIPE CULVERT PAY ITEM. CONSTRUCTION OF THE CULVERTS SHALL BE METHOD III.
  4. AREAS OF STANDING WATER MAY BE ENCOUNTERED DURING CONSTRUCTION. THESE AREAS SHALL BE DEWATERED IN A MANNER THAT WILL NOT RESULT IN EROSION NOR FLOODING. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION.
  5. THE EXISTING PEABODY ROAD DITCH SHALL BE CLEARED OF VEGETATION WITHIN THE CONSTRUCTION LIMITS AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH SECTION 201 OF THE SPECIAL PROVISIONS.

### Legend

- 395 --- EXISTING CONTOUR (5' INTERVAL)
- 395 --- PROPOSED CONTOUR (5' INTERVAL)
- --- PROPOSED CONSTRUCTION LIMITS
- --- BASELINE FOR CROSS SECTIONS
- --- TREE LINE
- --- SECTION LINE
- OHE --- OVERHEAD ELECTRIC LINE
- --- EDGE OF WATER
- --- EXISTING GRASS LANE
- --- SHEET BREAK
- --- CONTROL POINT
- --- EXISTING UTILITY POLE
- --- EXISTING STRUCTURE

### Eagle Strip Mine

4/7  
5/8  
6/9

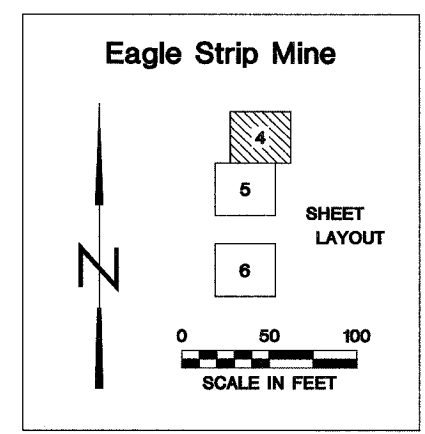
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EXISTING/PROPOSED

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SCALE IN FEET



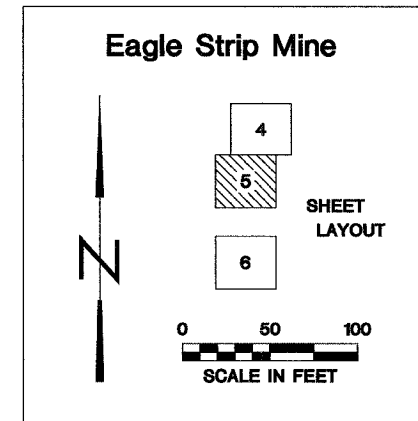
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	EXISTING GRASS LANE
	BORING LOCATION
	EXISTING STRUCTURE

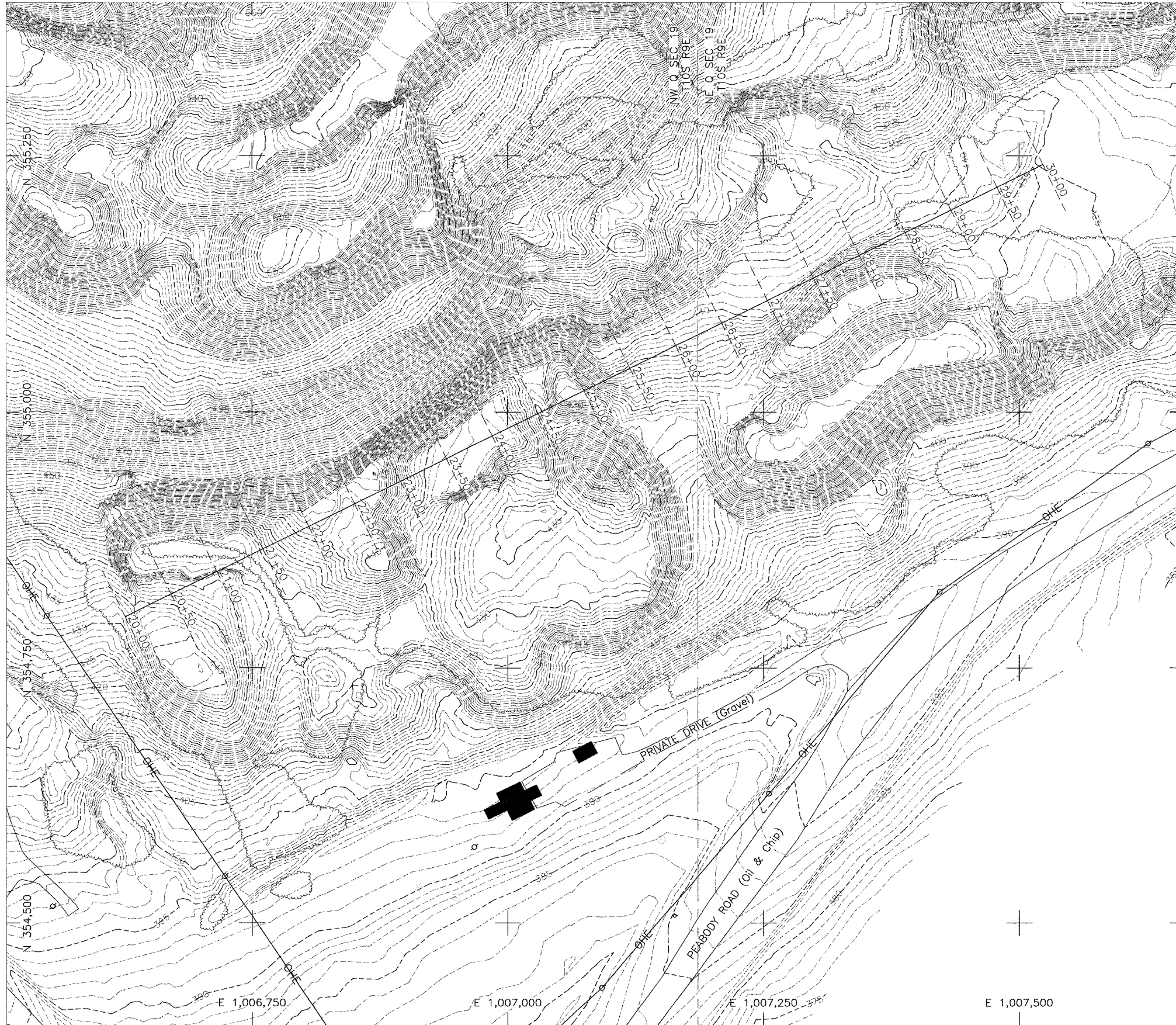
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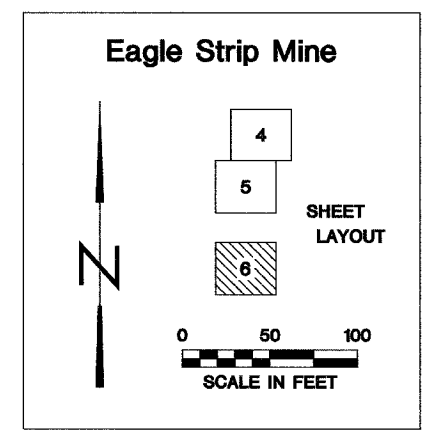


	EXISTING CONTOUR
	BASILINE FOR CROSS SECTIONS
	TREE LINE
	SECTION LINE
	OVERHEAD ELECTRIC LINE
	EDGE OF WATER
	EXISTING GRASS LANE
	BORING LOCATION
	EXISTING STRUCTURE
Legend	





	EXISTING CONTOUR
	BASILINE FOR CROSS SECTIONS
	TREE LINE
	SECTION LINE
	OVERHEAD ELECTRIC LINE
	EDGE OF WATER
	EXISTING GRASS LANE
	BORING LOCATION
	EXISTING STRUCTURE
Legend	

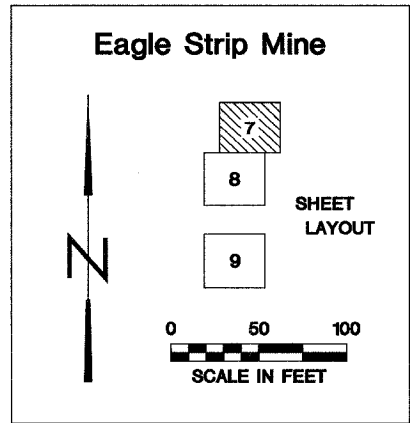




- ### Notes
1. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS.
  2. ALL PROPOSED SPECIAL EXCELSIOR BLANKET ARE SHOWN WITH A CIRCLED NUMBER. THE LENGTHS OF EACH OF THESE BLANKETS CAN BE FOUND IN A TABLE ON PAGE 32.
  3. THE CONSTRUCTED TERRACES SHALL HAVE 4' BOTTOM WIDTHS AND 4H:1V UPSLOPES 2' IN HEIGHT. THE SPECIAL EXCELSIOR BLANKET SHALL BE PLACED OVER THE 4' BOTTOM WIDTH AND 4' OF THE UPSLOPE.
- TYPICAL TERRACE  
NOT TO SCALE
4. THE PROPOSED TEMPORARY DITCH CHECK #1 SHALL BE CONSTRUCTED PRIOR TO EARTH EXCAVATION. THE AREA UPSTREAM OF THE DITCH CHECK SHALL BE CLEANED OF SEDIMENT EVERY 3 MONTHS THEREAFTER FOR THE DURATION OF THE CONTRACT. THIS CLEANOUT WORK SHALL BE INCIDENTAL TO THE CONSTRUCTION OF THE DITCH CHECK.

### Legend

	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED CONSTRUCTION LIMITS
	BASELINE FOR CROSS SECTIONS
	TREE LINE
	SECTION LINE
	OVERHEAD ELECTRIC LINE
	EDGE OF WATER
	EXISTING GRASS LANE
	BORING LOCATION
	EXISTING STRUCTURE
	PROPOSED EXCELSIOR BLANKET (8' WIDTH)

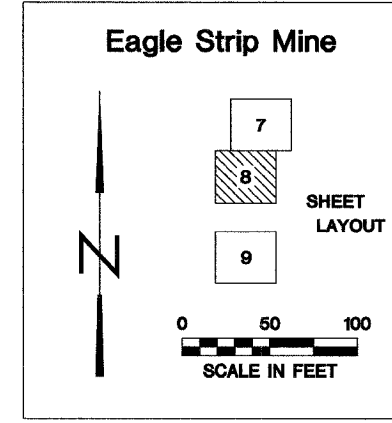




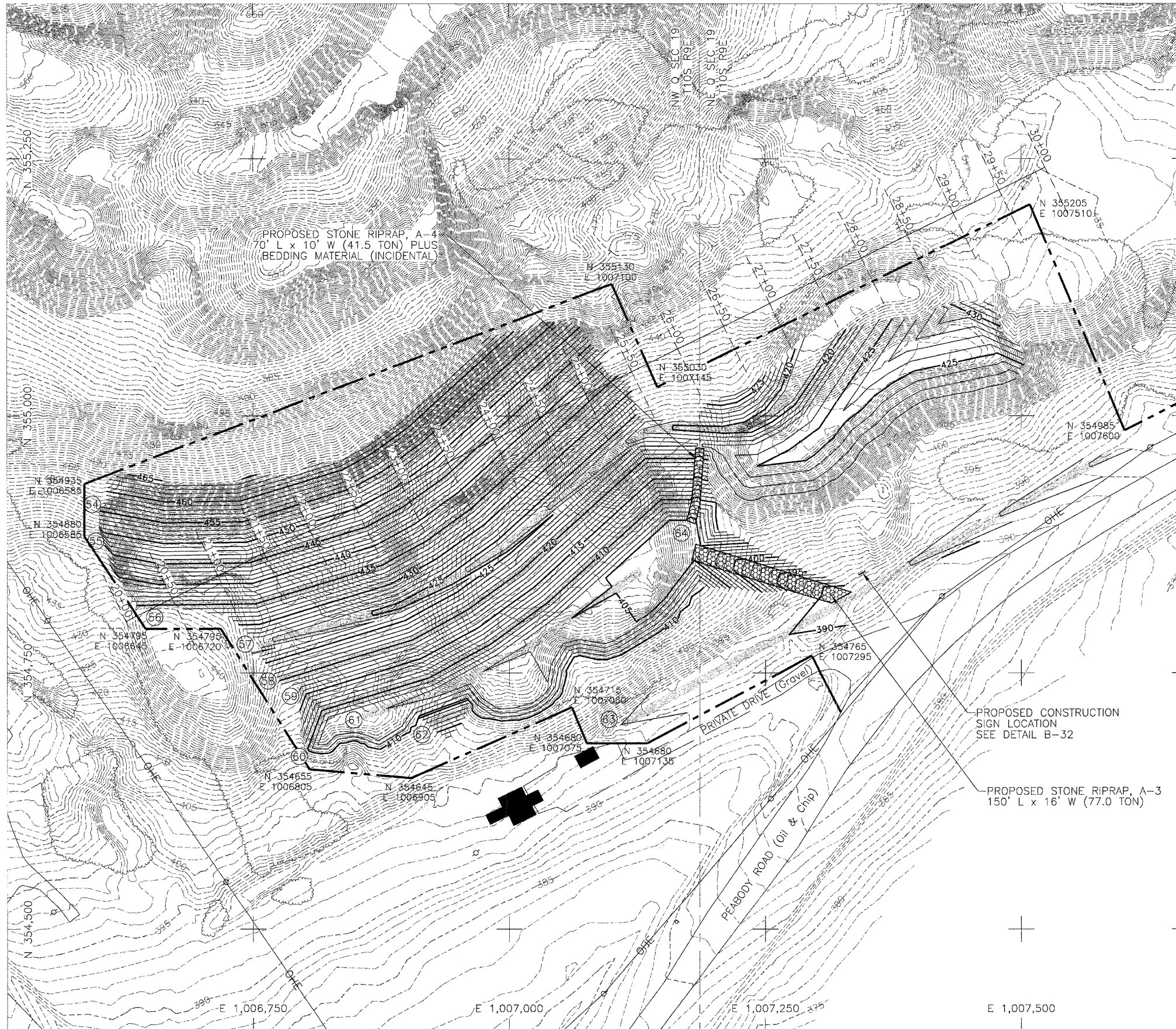
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  3. AS SHOWN BY THE DRAWN LIMITS, THE STEEP SLOPES EAST OF THE PROPOSED FILL AND 20' AROUND THE UTILITY TOWER SHALL BE REMOVED FROM THE CONSTRUCTION LIMITS. THIS 0.9 ACRE AREA SHALL NOT REQUIRE CLEARING NOR SEEDING.
  4. THE PROPOSED PERIMETER EROSION BARRIER SHALL BE CONSTRUCTED PRIOR TO EARTH EXCAVATION. PER SECTION 280 OF THE SPECIAL PROVISIONS, ROUTINE MAINTENANCE OF THE BARRIER IS REQUIRED AND IS INCIDENTAL TO THE CONTRACT ITEM.

### Legend

	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED CONSTRUCTION LIMITS
	BASELINE FOR CROSS SECTIONS
	TREE LINE
	SECTION LINE
	OVERHEAD ELECTRIC LINE
	EDGE OF WATER
	EXISTING GRASS LANE
	BORING LOCATION
	EXISTING STRUCTURE
	PROPOSED EXCELSIOR BLANKET (8' WIDTH)

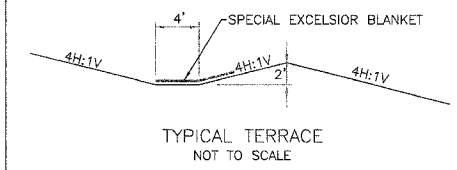






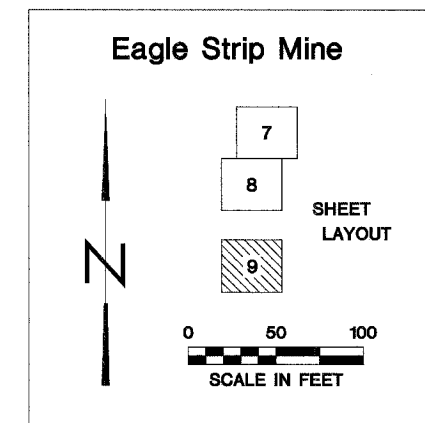
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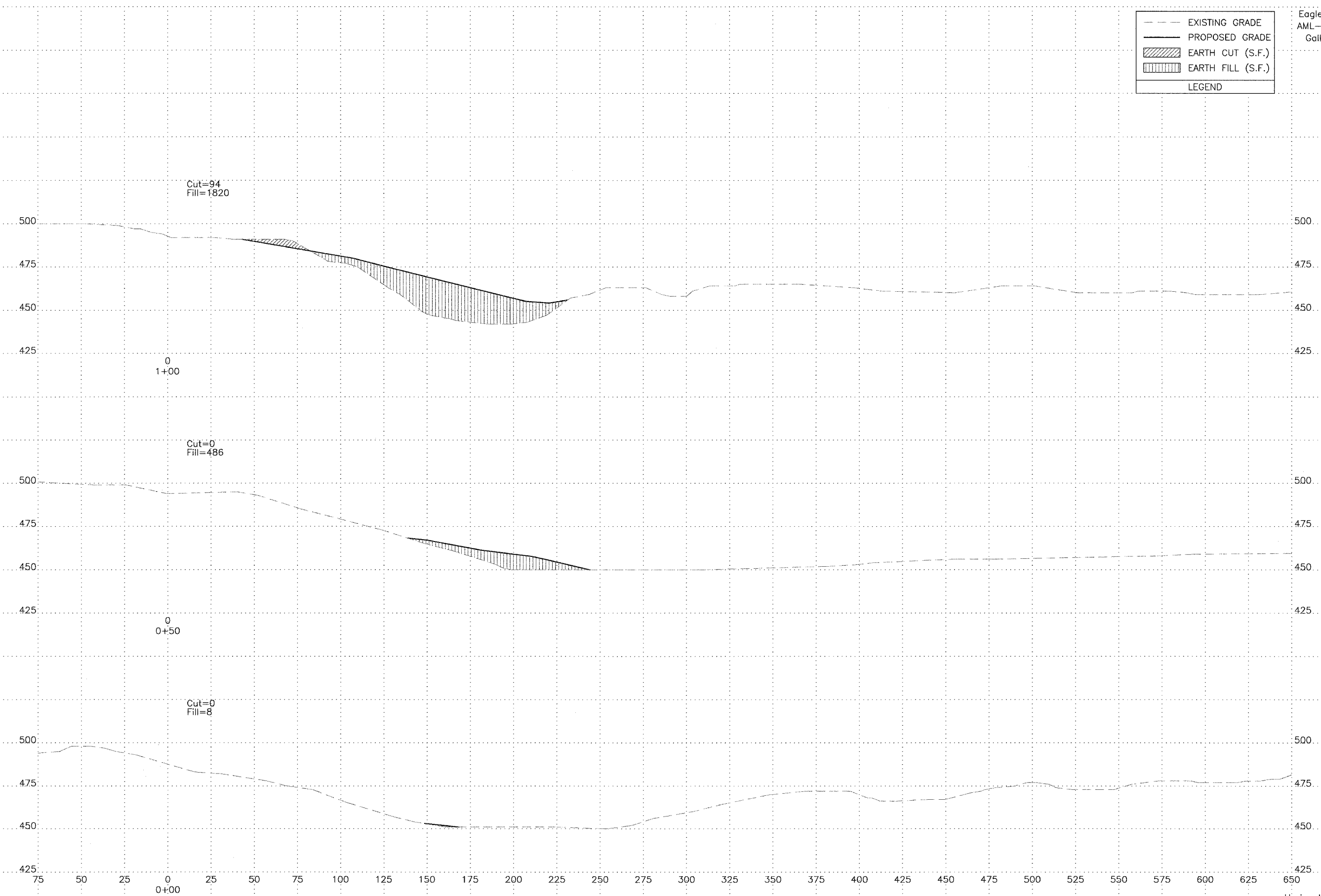
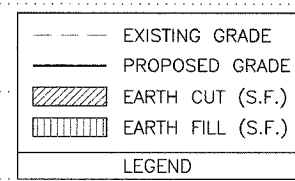
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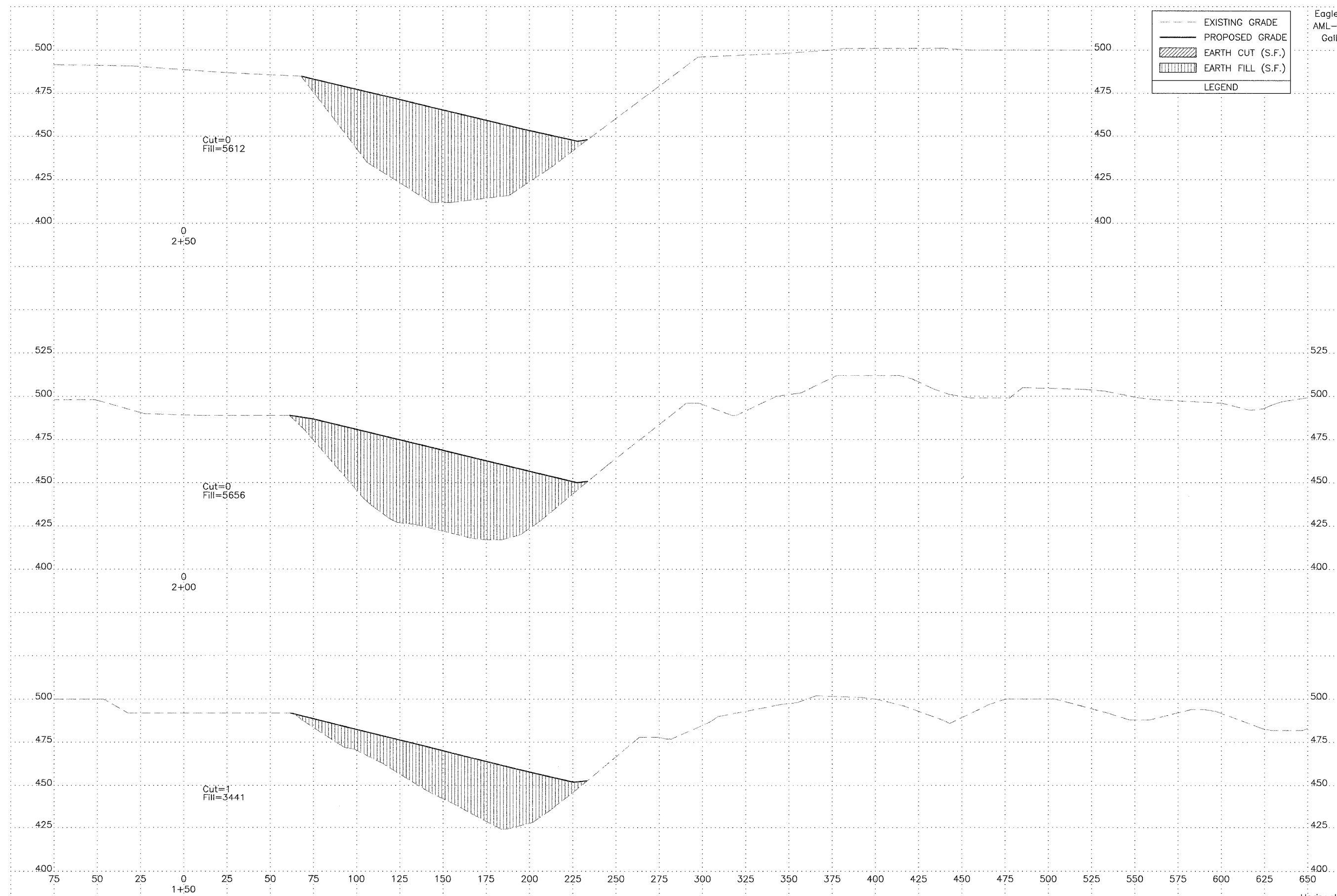
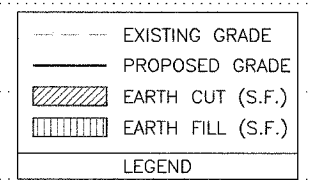
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	PROPOSED CONSTRUCTION LIMITS
	BASELINE FOR CROSS SECTIONS
	TREE LINE
	SECTION LINE
	OVERHEAD ELECTRIC LINE
	EDGE OF WATER
	EXISTING GRASS LANE
	BORING LOCATION
	EXISTING STRUCTURE
	PROPOSED EXCELSIOR BLANKET (8' WIDTH)

Legend

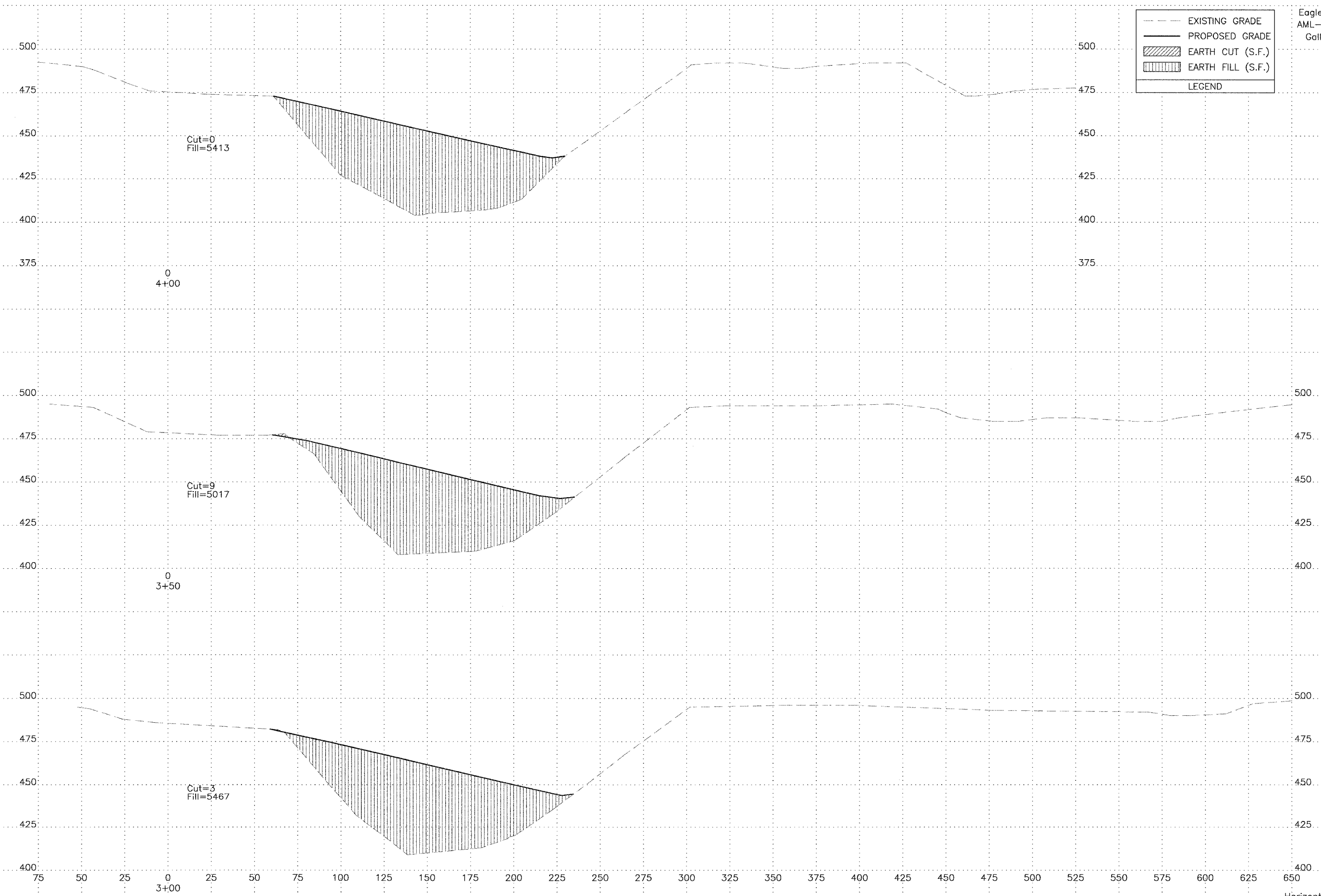
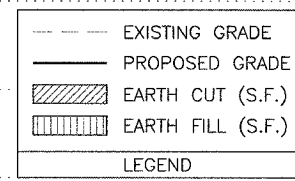




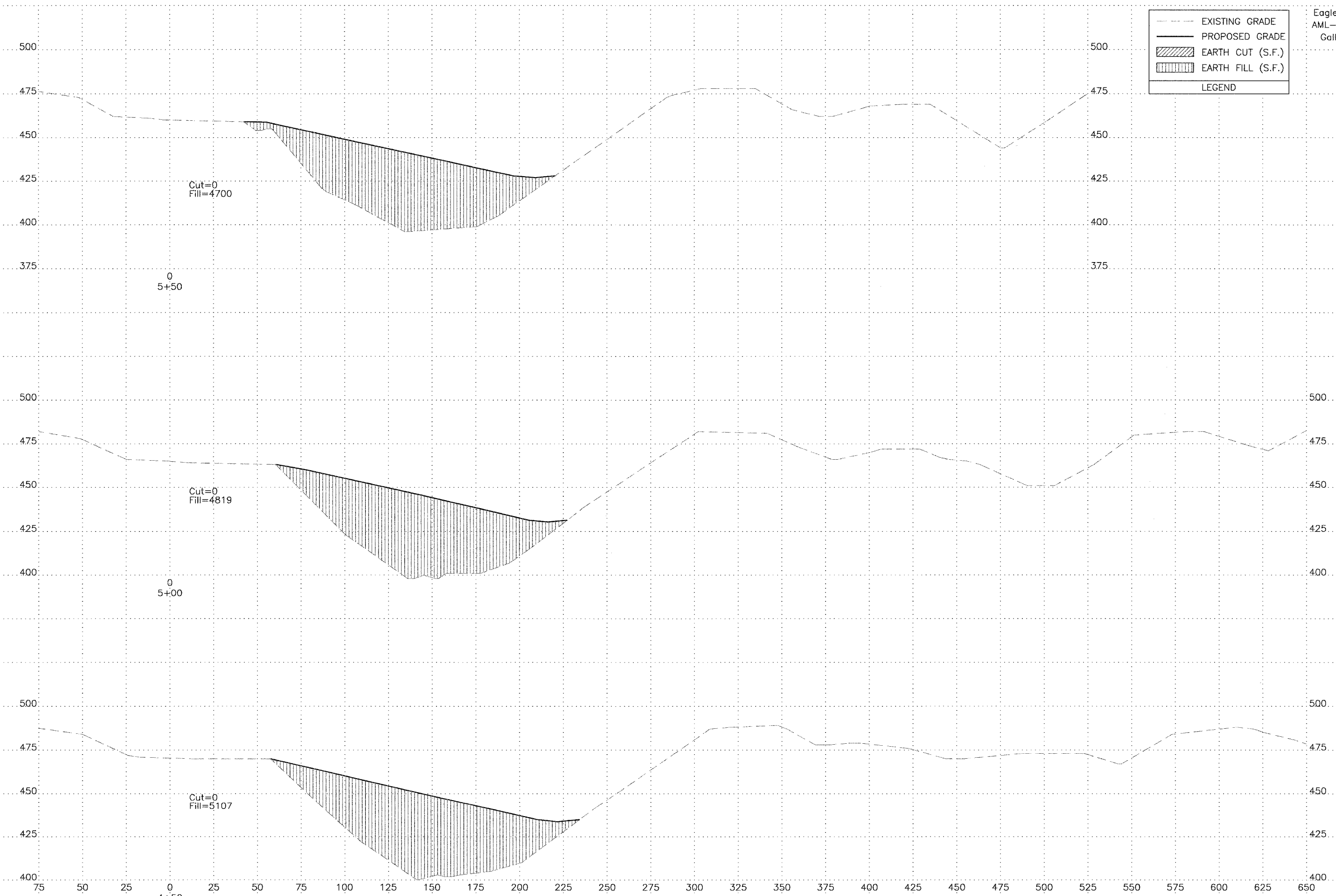
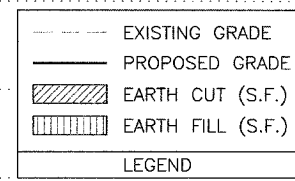
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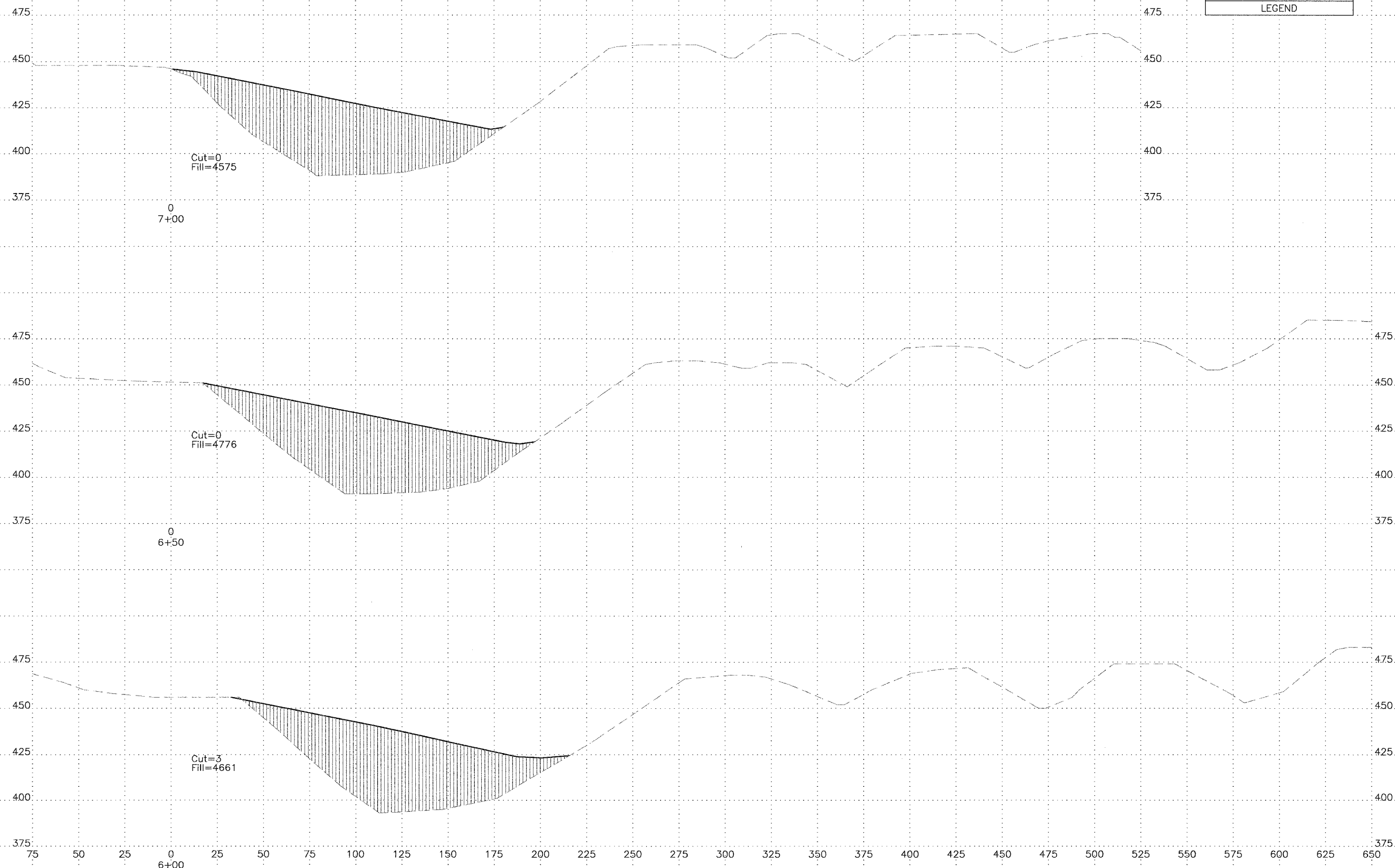
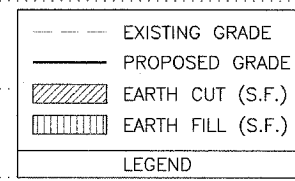
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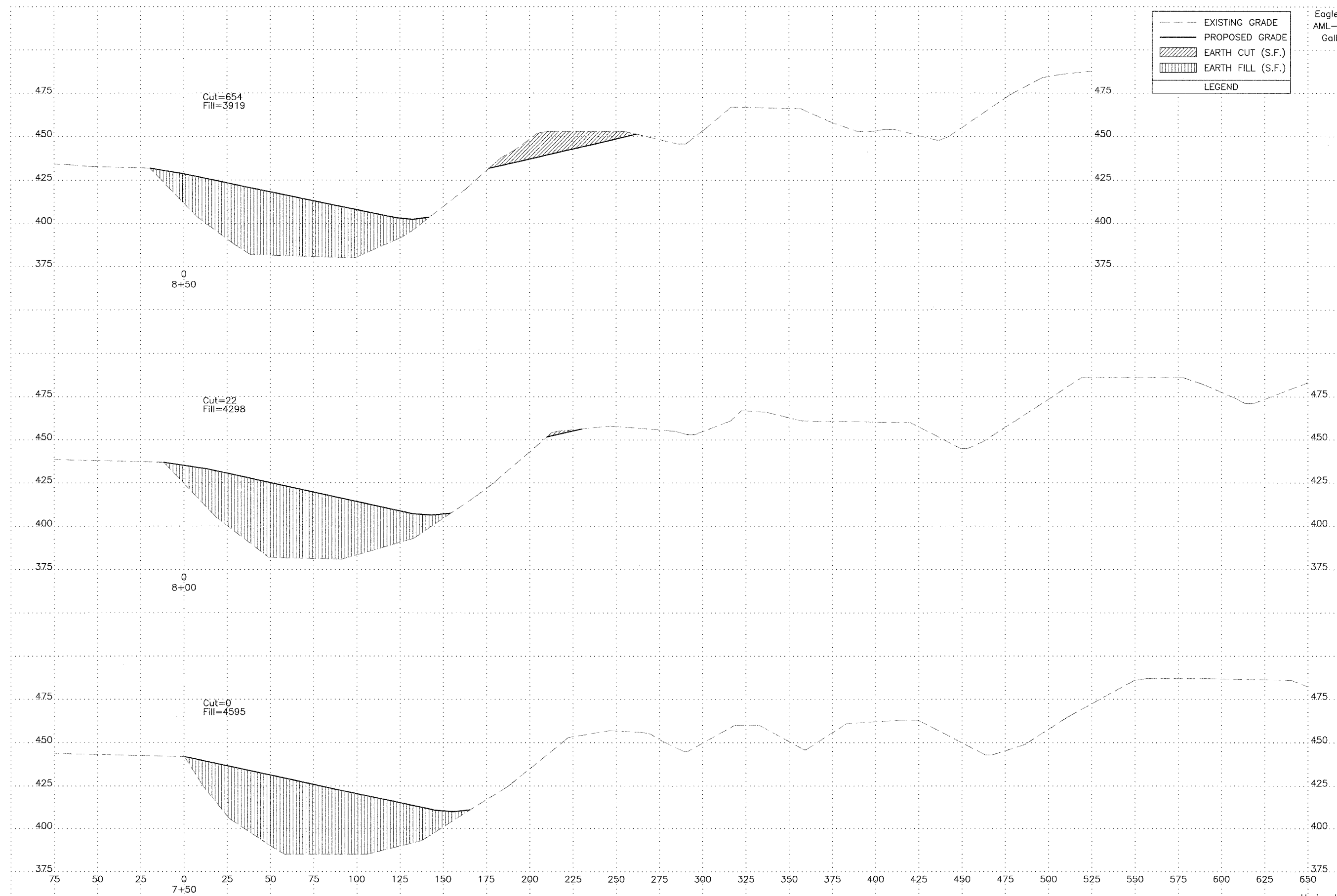
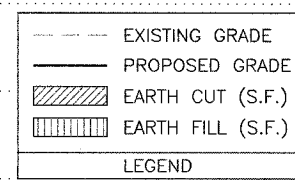
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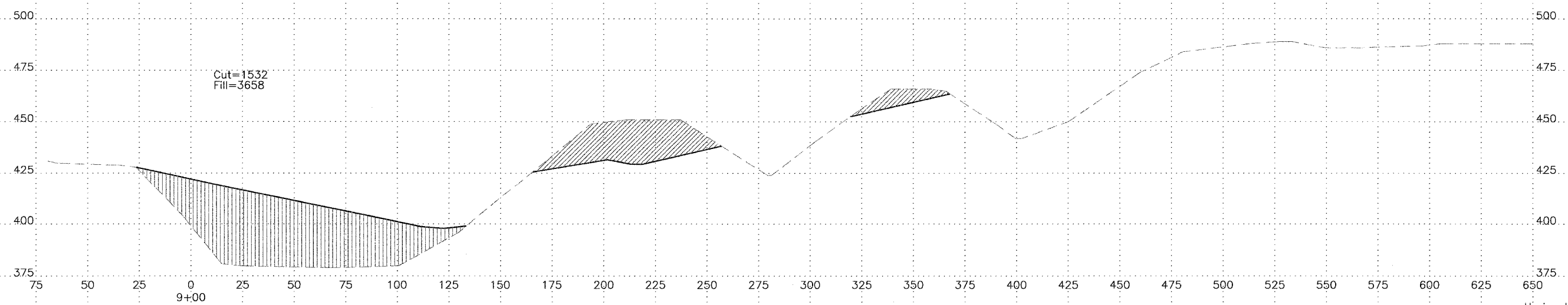
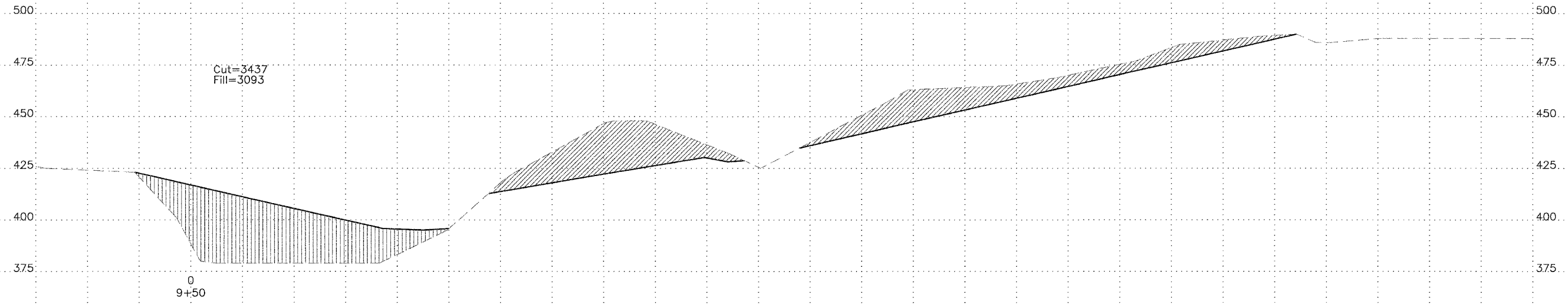
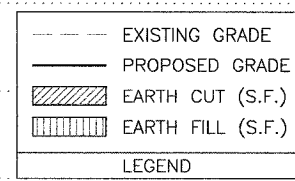
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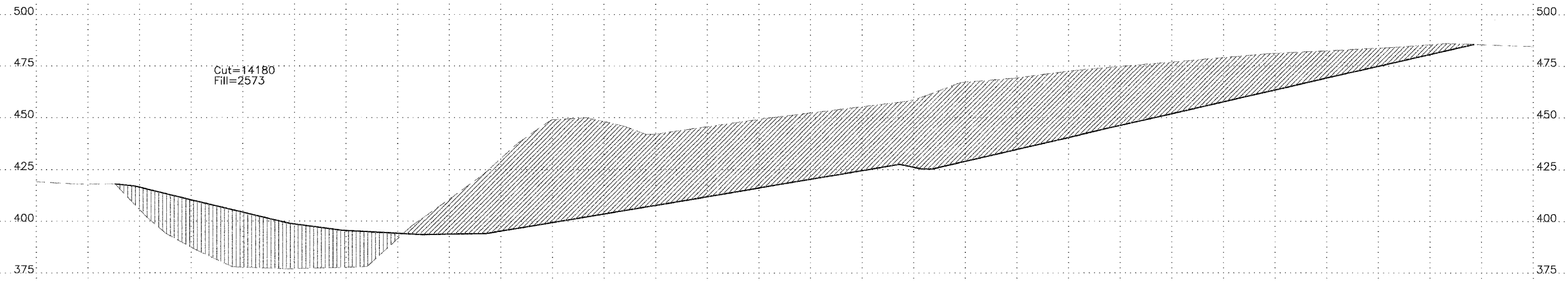
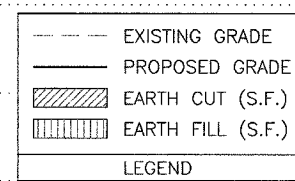


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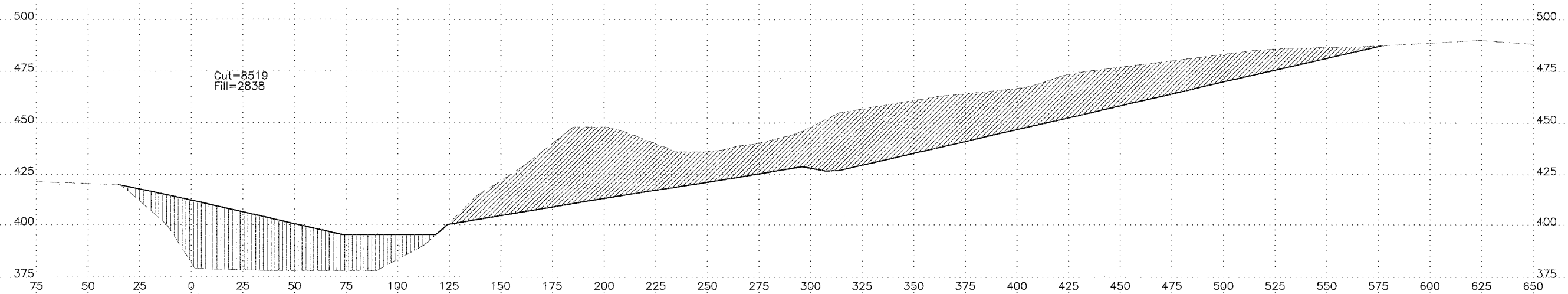


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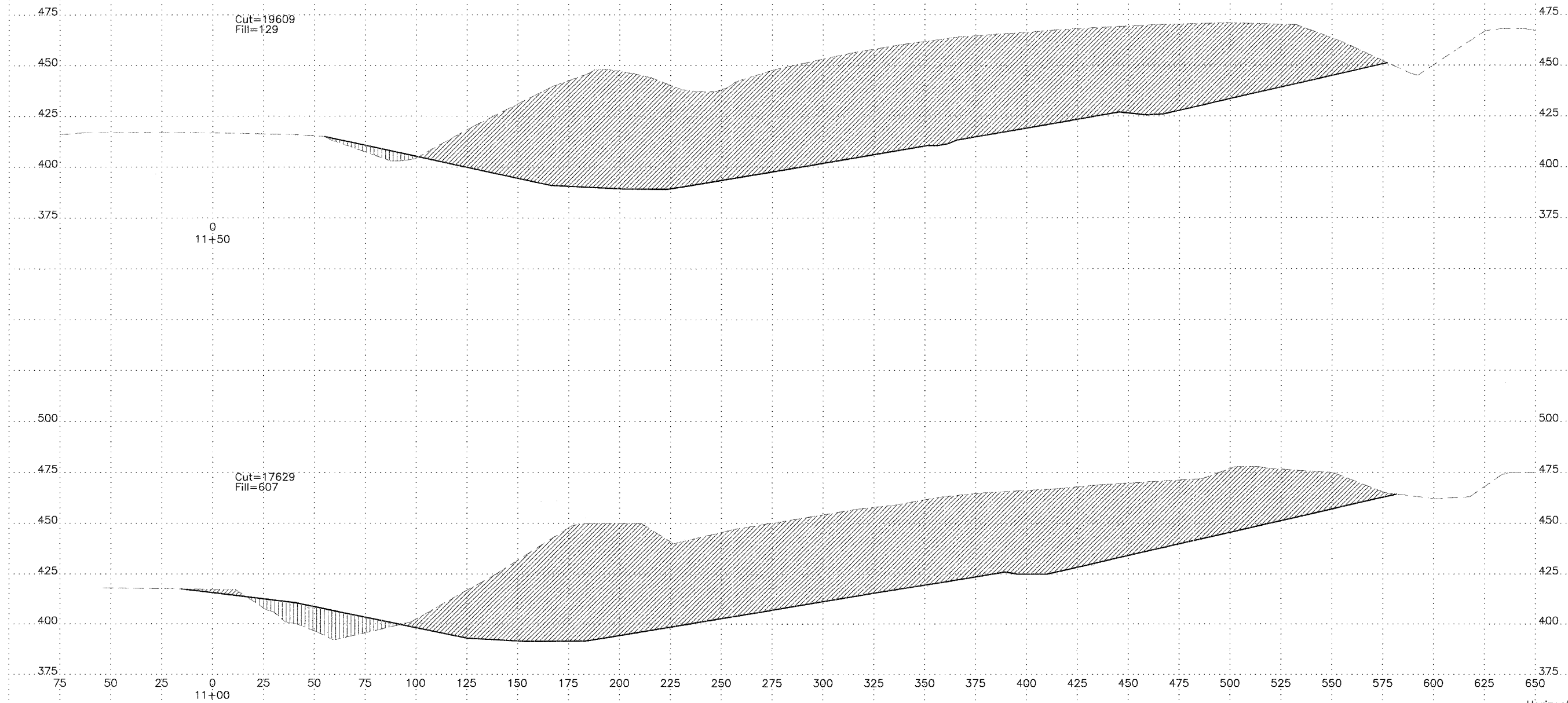
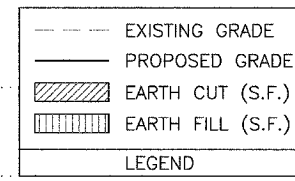


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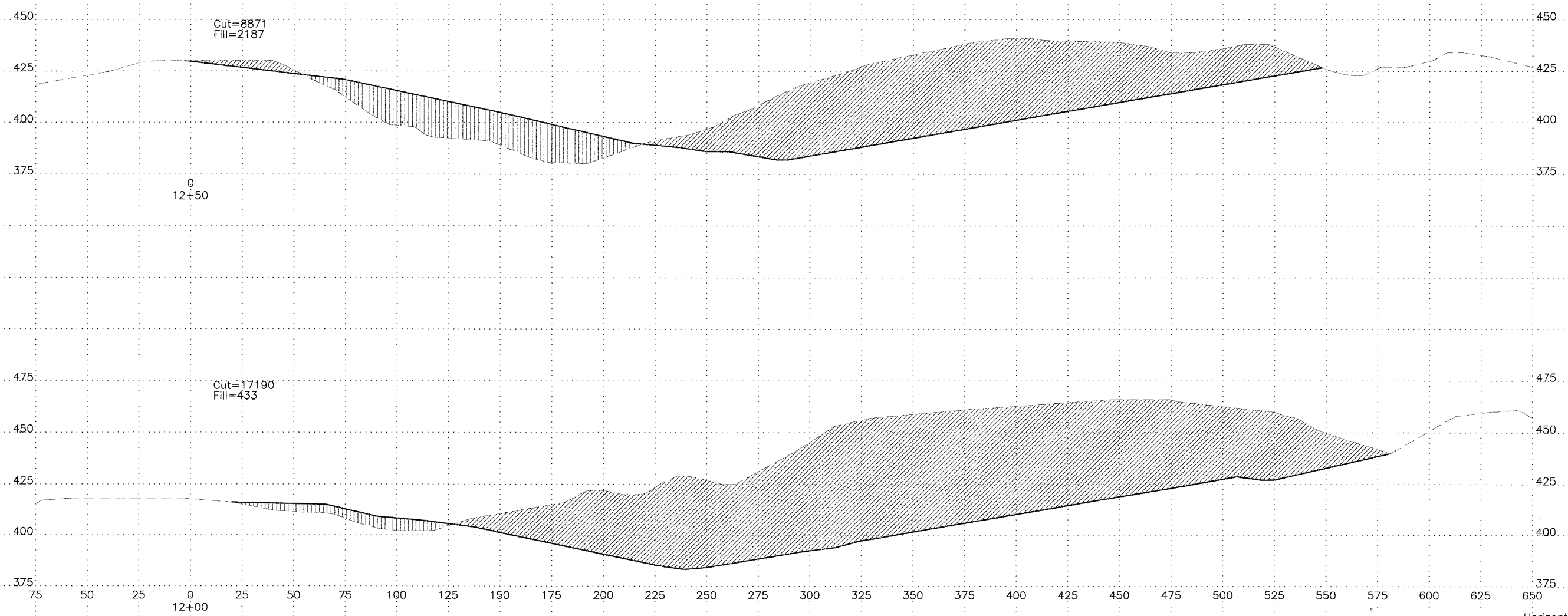
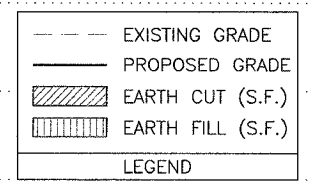
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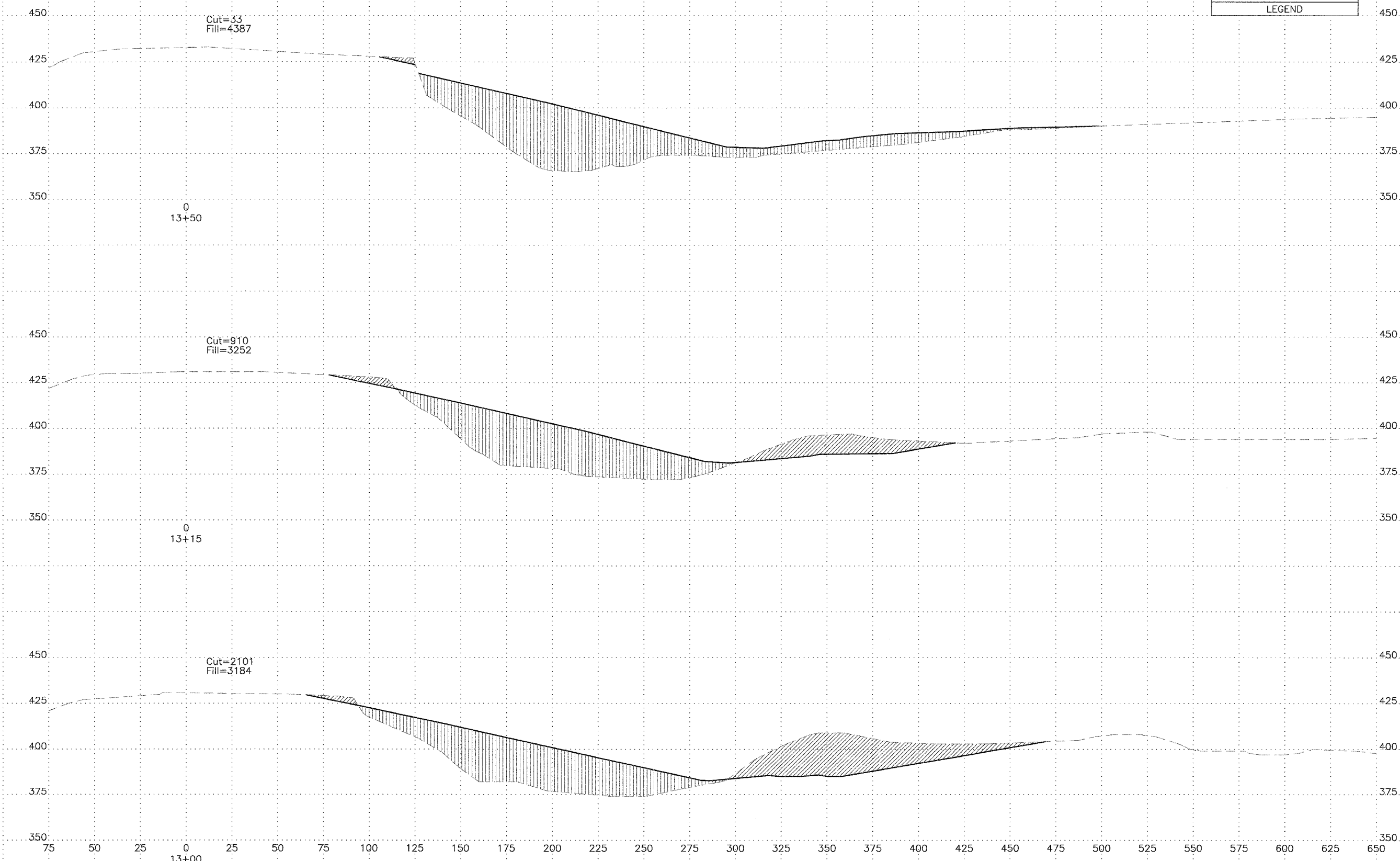
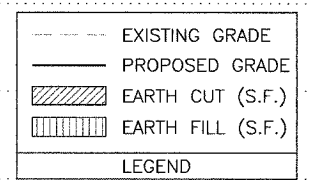
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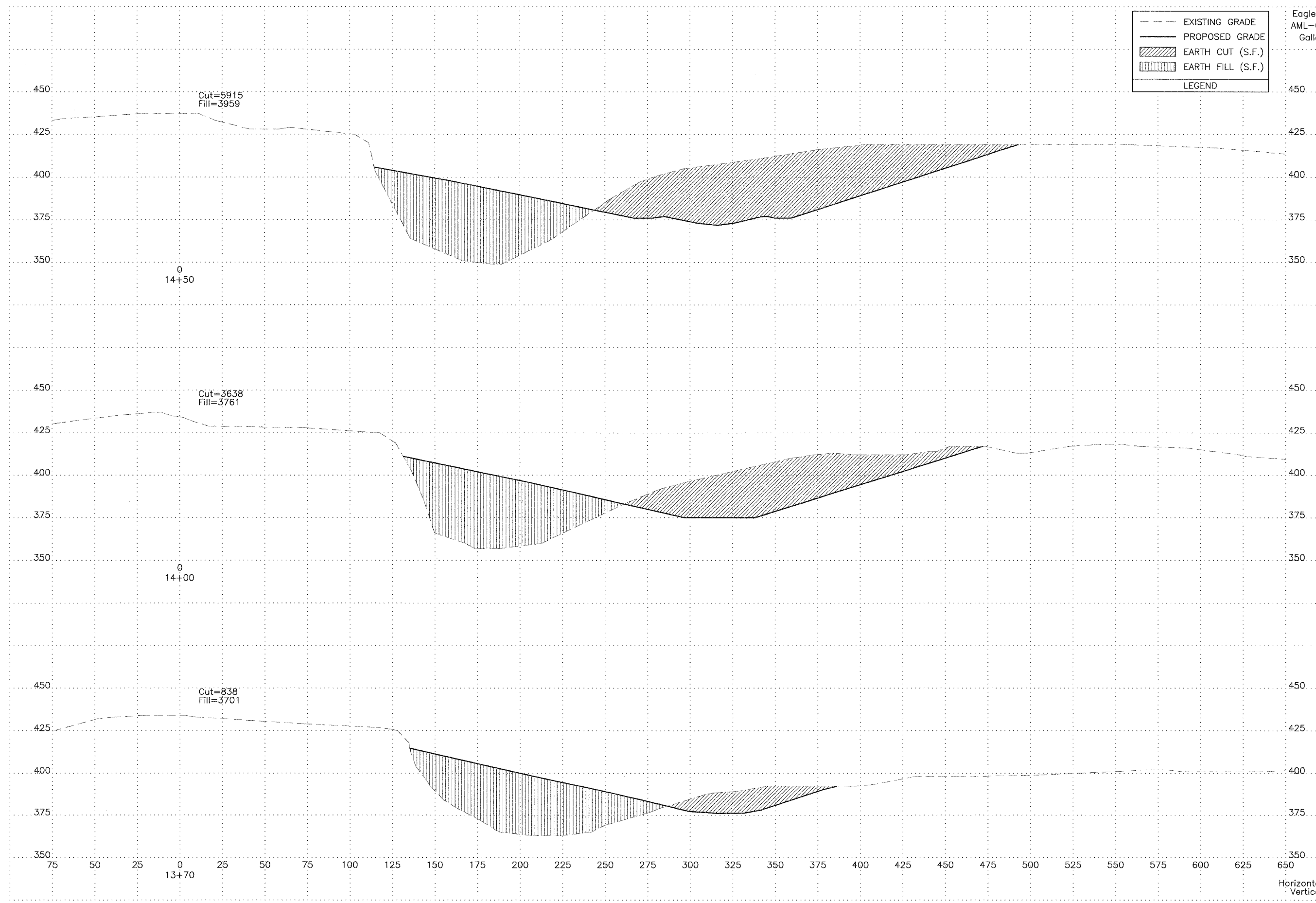
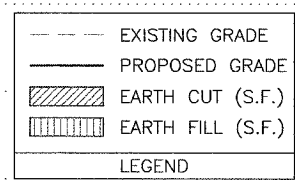
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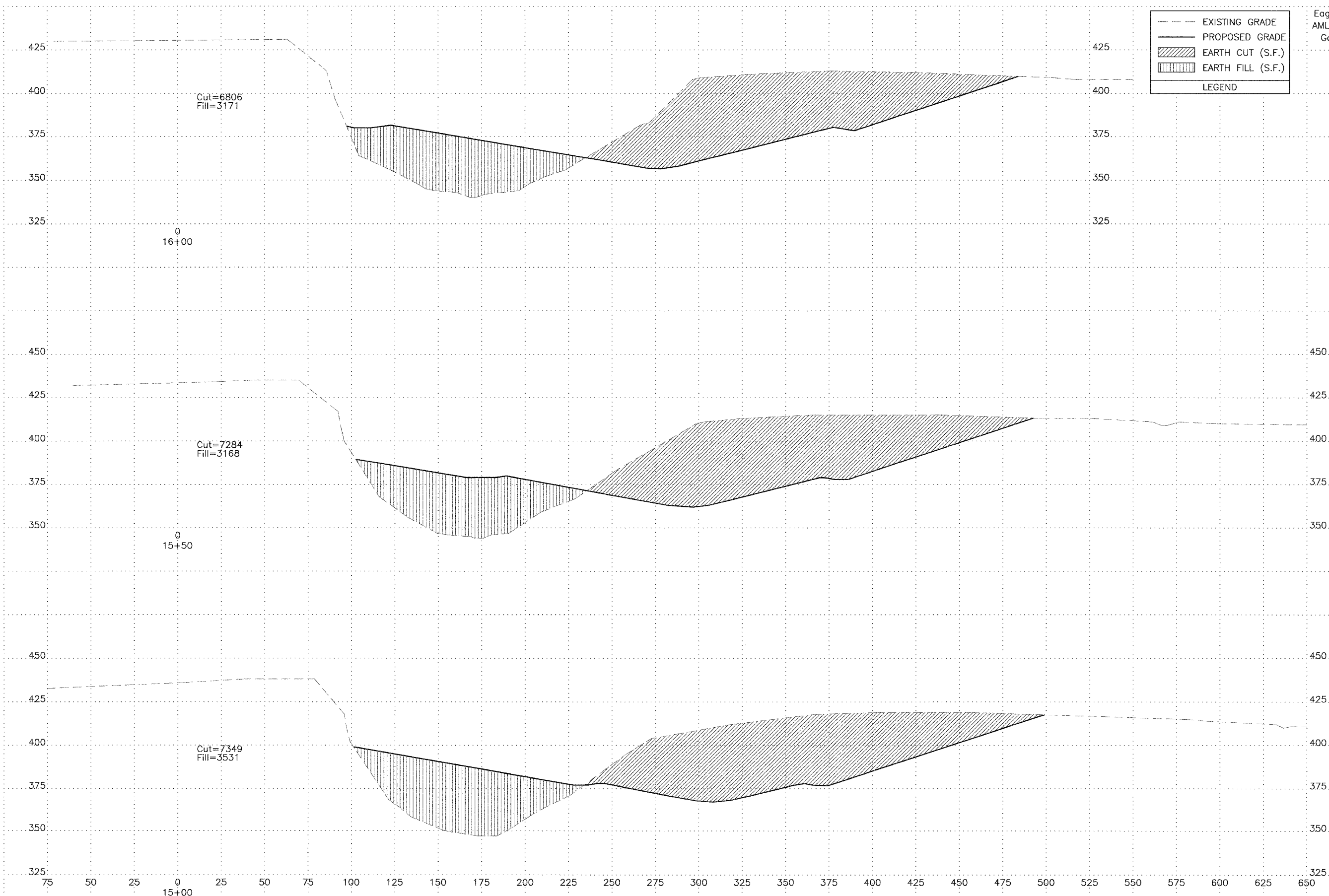
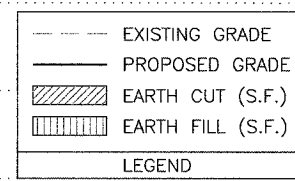
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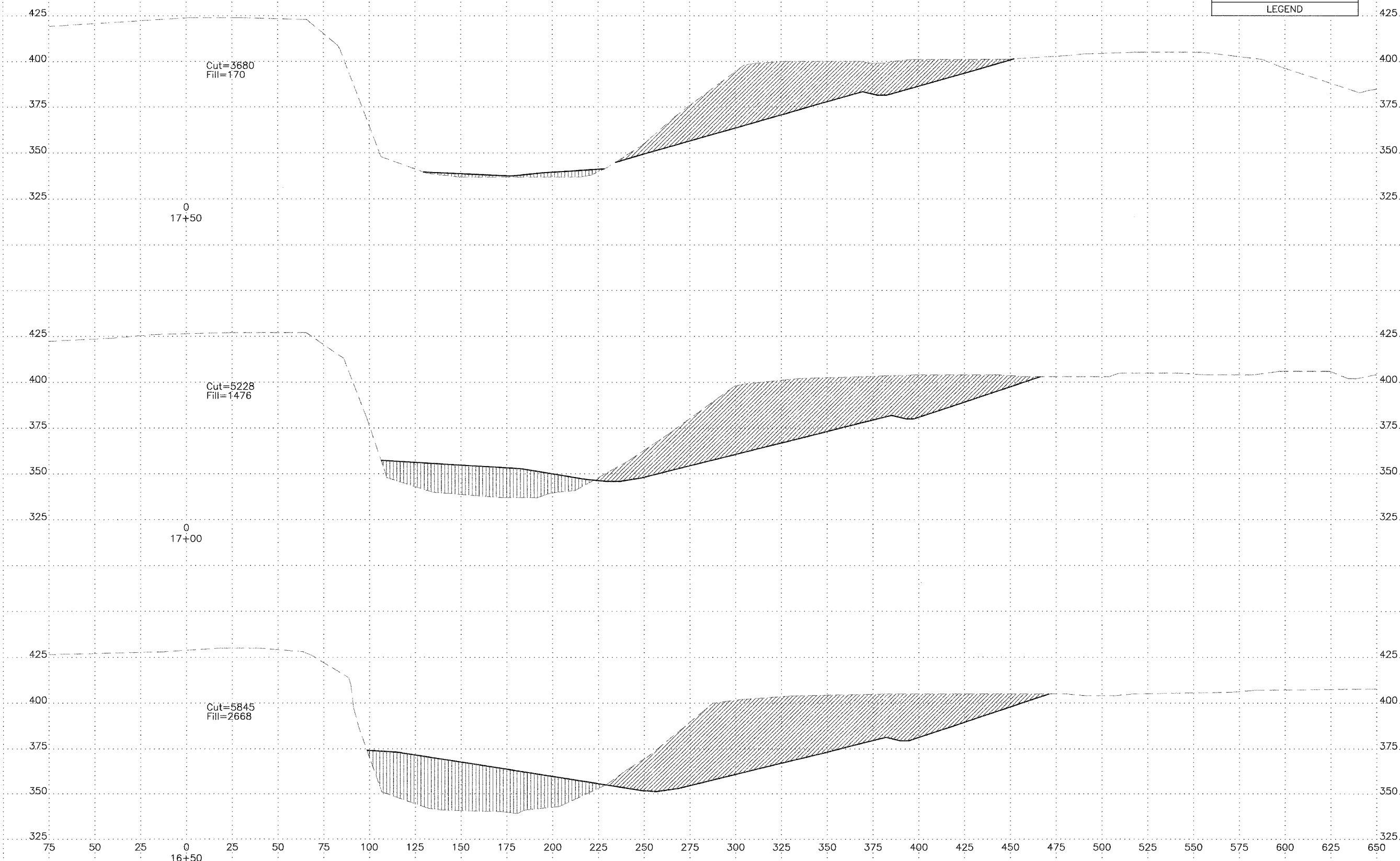
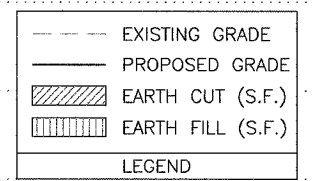
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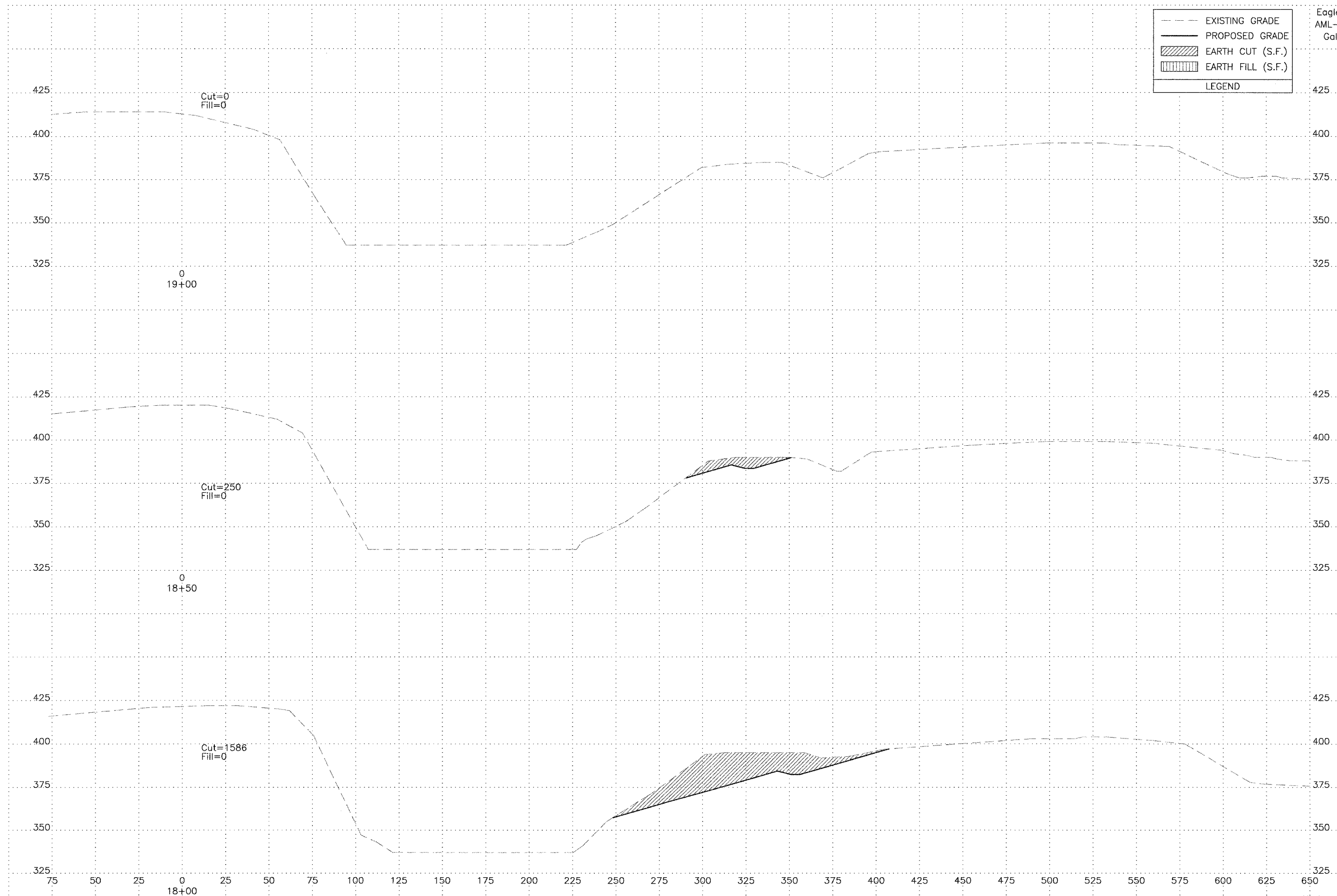
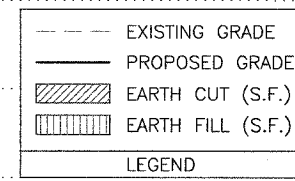
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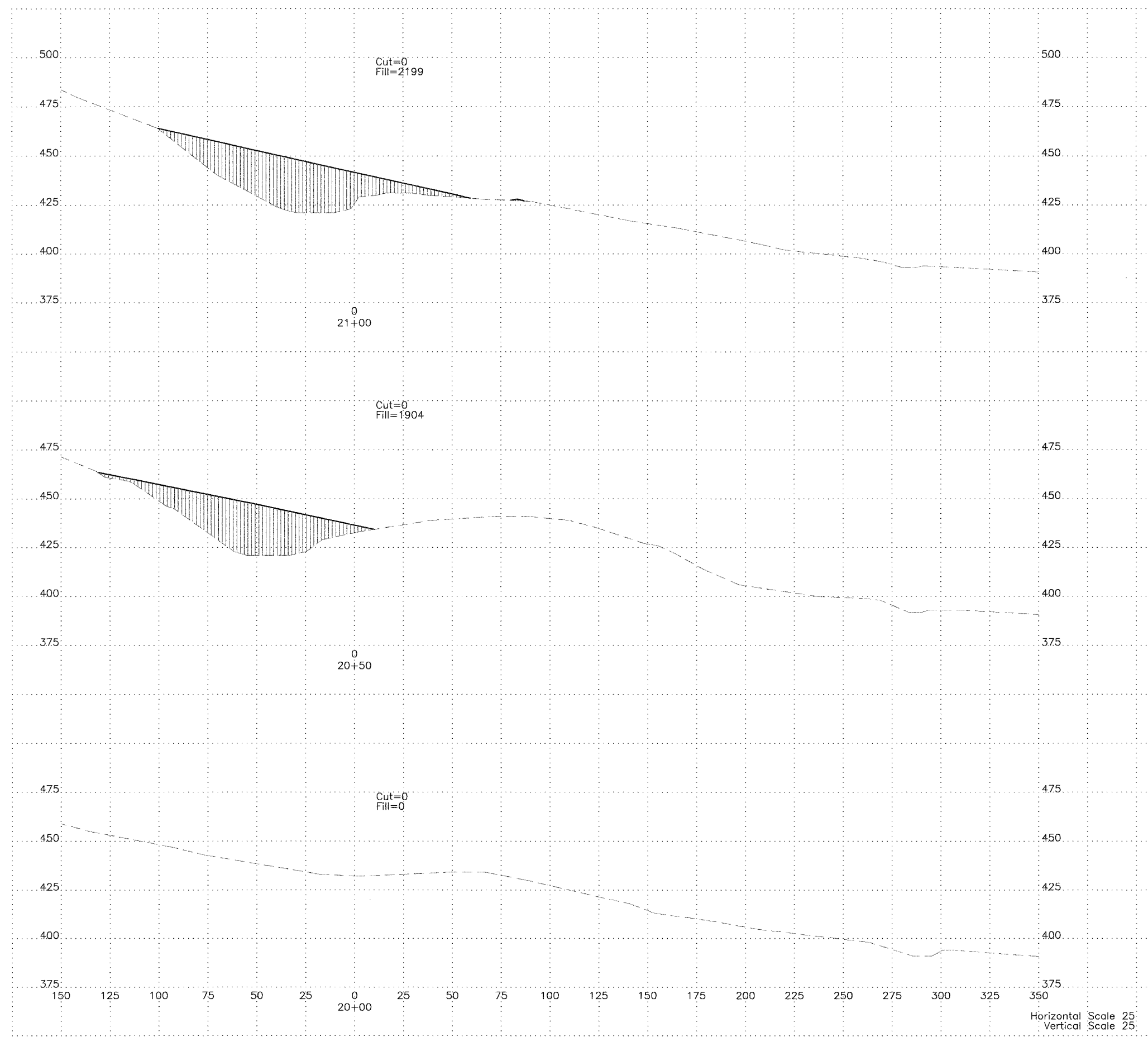
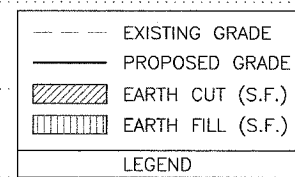


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Vertical Scale 25'

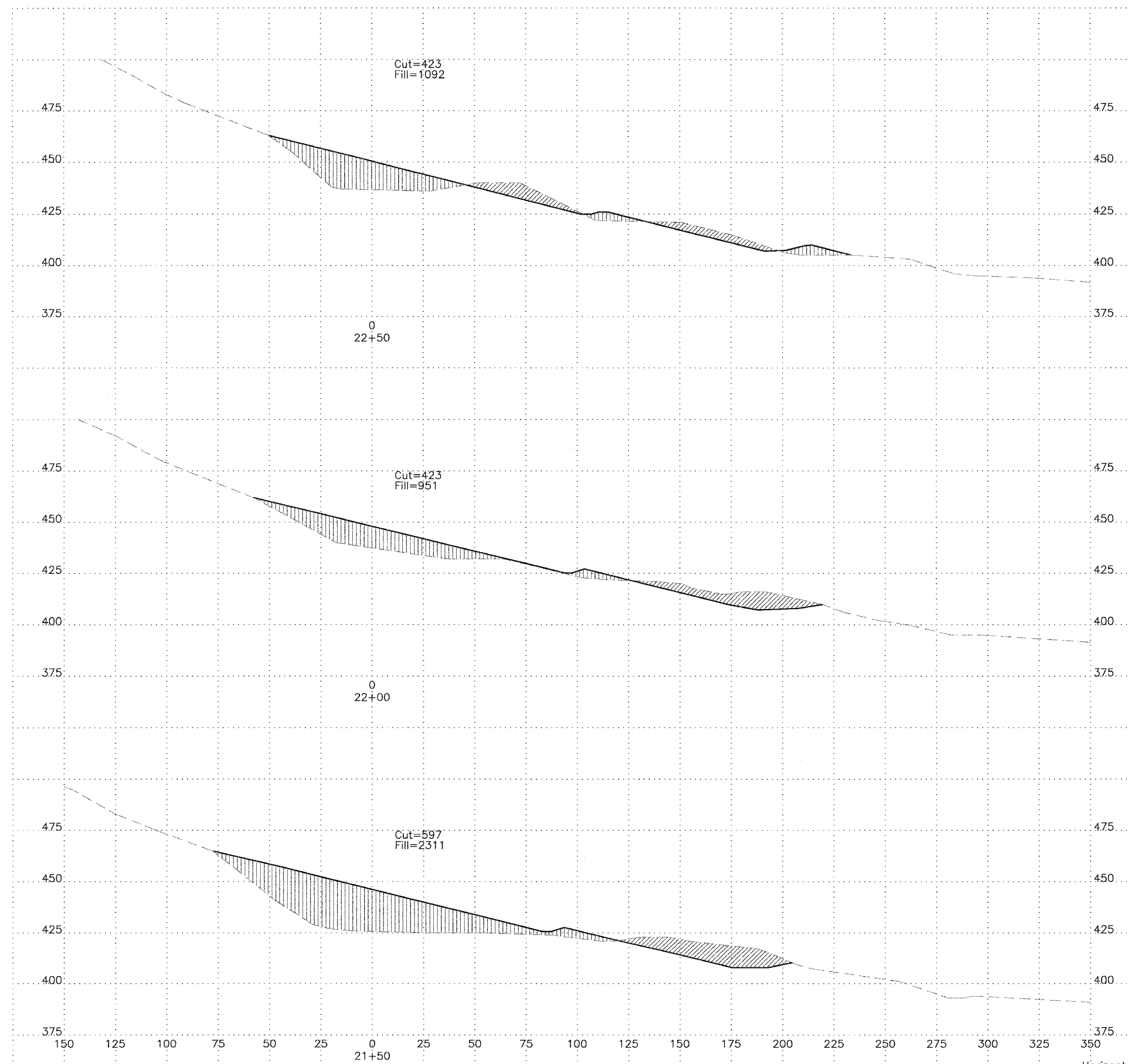
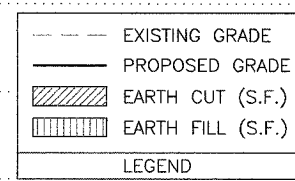


Horizontal Scale 25'  
Vertical Scale 25'

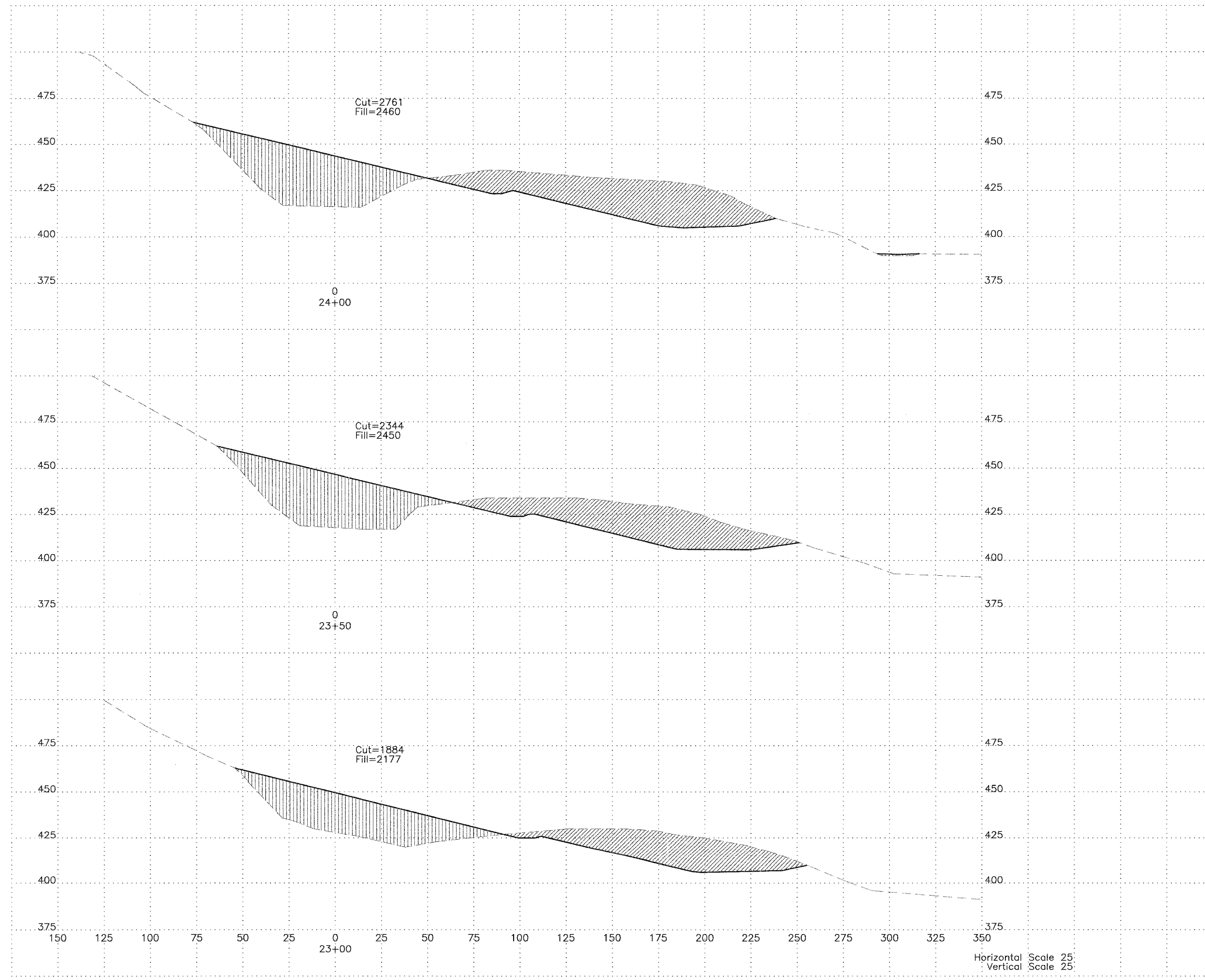
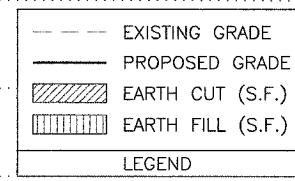




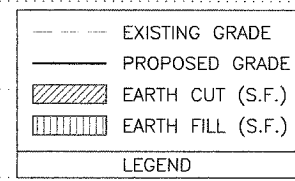
Horizontal Scale 25'  
Vertical Scale 25'



Horizontal Scale 25  
Vertical Scale 25



Horizontal Scale 25'  
Vertical Scale 25'



Cut=609  
Fill=98

0  
25+50

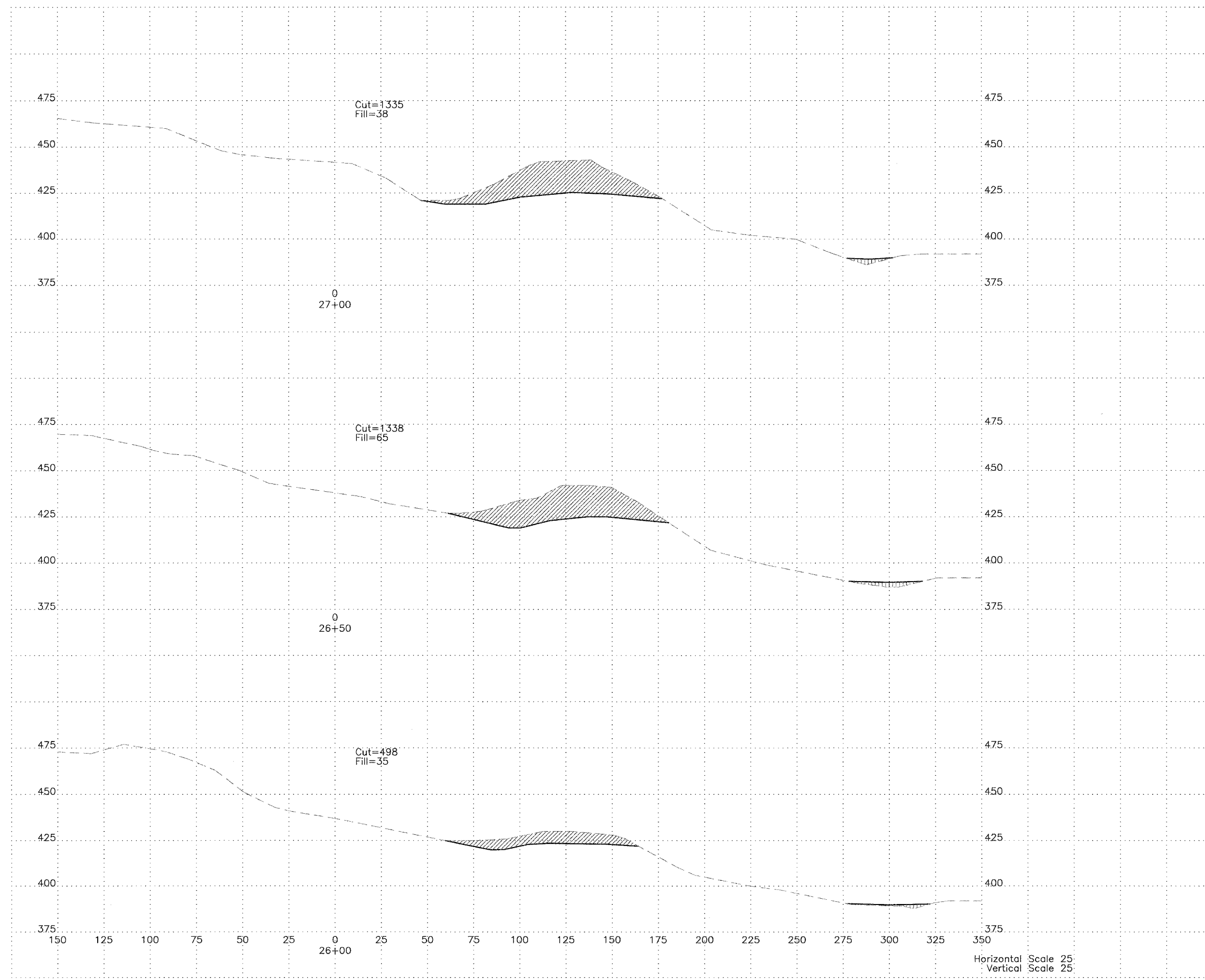
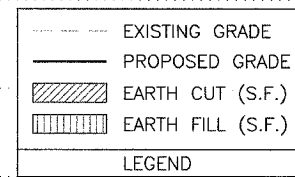
Cut=3355  
Fill=1603

0  
25+00

Cut=3825  
Fill=1529

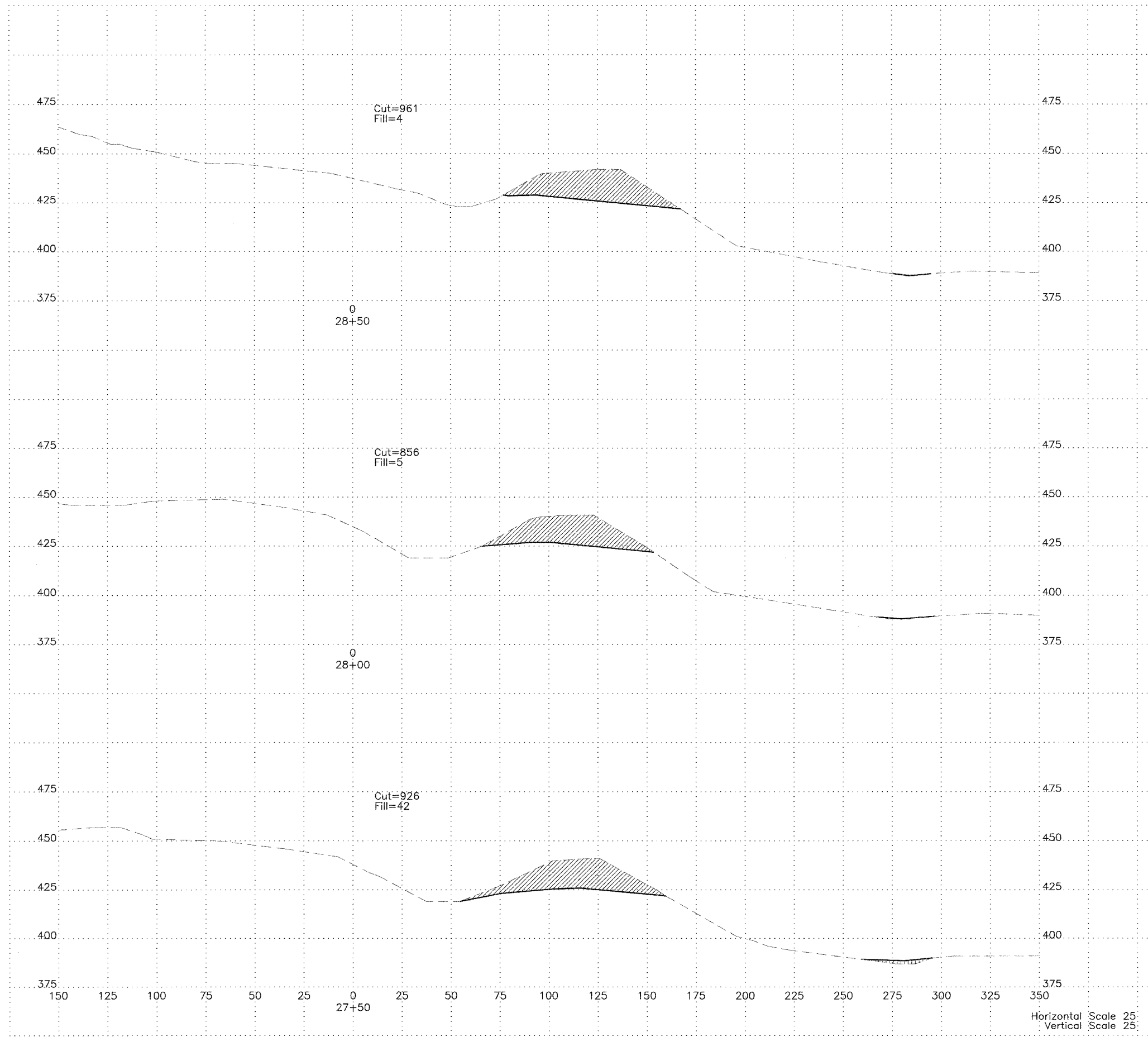
24+50

Horizontal Scale 25'  
Vertical Scale 25'

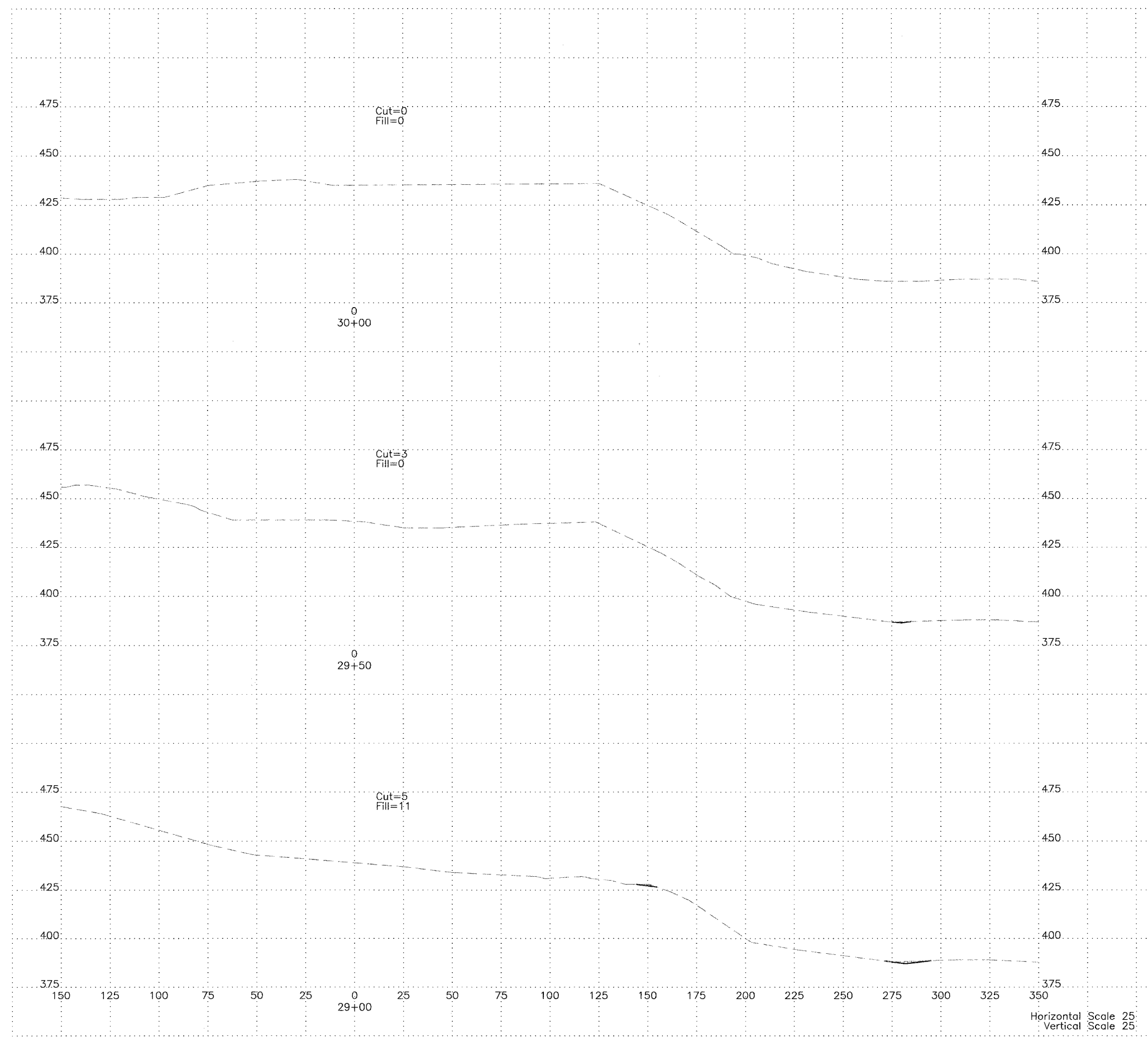
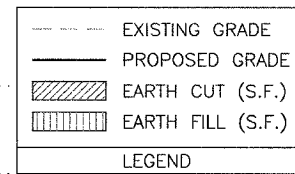


Horizontal Scale 25  
Vertical Scale 25

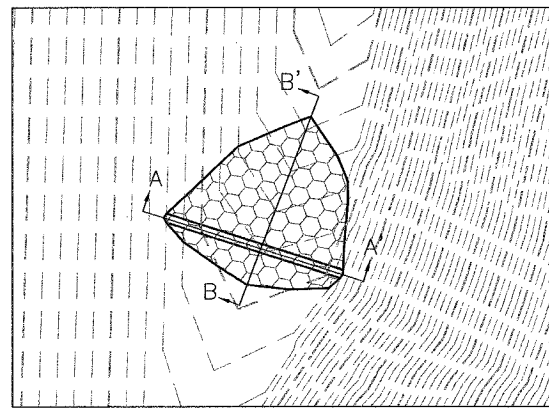
EXISTING GRADE  
PROPOSED GRADE  
EARTH CUT (S.F.)  
EARTH FILL (S.F.)  
LEGEND



Horizontal Scale 25'  
Vertical Scale 25'

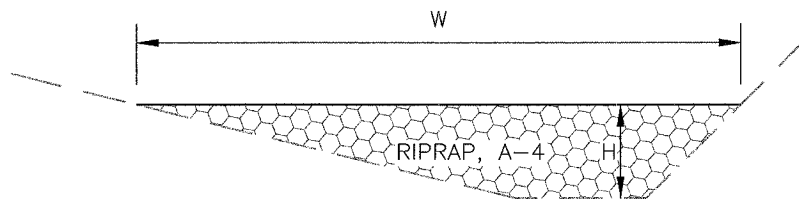


Horizontal Scale 25'  
Vertical Scale 25'

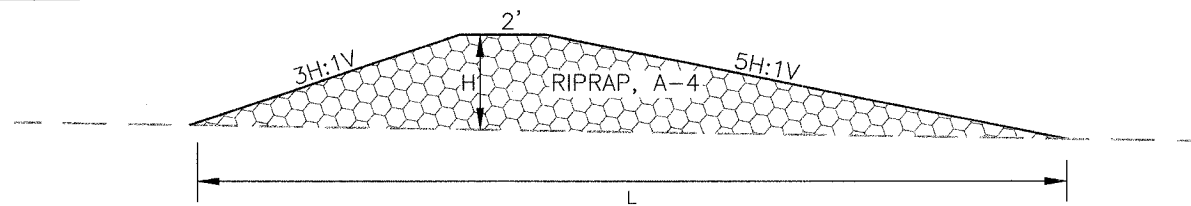


TYPICAL PLAN VIEW

	CHECK DAM DIMENSIONS		
	L	W	H
#1	35'	115'	5'
#2	40'	70'	4'
#3	30'	35'	3'
#4	40'	45'	3'
#5	30'	26'	3'
#6	25'	20'	3'



SECTION A-A'



SECTION B-B'

A TEMPORARY DITCH CHECK DETAIL  
32 NOT TO SCALE

PROPOSED SPECIAL EXCELSIOR BLANKET  
(SEE SHEETS 7 - 9)


#	LENGTH (FOOT)	AREA (S.Y.)	#	LENGTH (FOOT)	AREA (S.Y.)
1	105	93	33	130	116
2	180	160	34	165	147
3	245	218	35	200	178
4	305	271	36	210	187
5	285	253	37	540	480
6	350	311	38	385	342
7	345	307	39	370	329
8	300	267	40	345	307
9	150	133	41	105	93
10	190	169	42	80	71
11	295	262	43	230	204
12	80	71	44	220	196
13	390	347	45	180	160
14	500	444	46	165	147
15	410	364	47	180	160
16	420	373	48	295	262
17	455	404	49	110	98
18	140	124	50	240	213
19	75	67	51	400	356
20	110	98	52	500	444
21	270	240	53	485	431
22	280	249	54	510	453
23	295	262	55	535	476
24	180	160	56	540	480
25	305	271	57	590	524
25	440	391	58	470	418
27	520	462	59	45	40
28	350	311	60	465	413
29	450	400	61	310	276
30	270	240	62	40	36
31	215	191	63	545	484
32	220	196	64	80	71

SPACING LETTERS

2.0"
3.5"
1.5"
3.5"
1.5"
3.5"
1.5"
3.5"
3.5"
3.0"
3.5"
1.5"
2.5"
1.5"
2.5"
3.5"
1.5"
2.0"
1.5"
2.0"
2.0"

RECLAMATION PROJECT  
of the  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF ILLINOIS

ROD R. BLAGOJEVICH, GOVERNOR

 Sam Flood, Acting Director  
Department of Natural Resources

In cooperation with the Office of Surface Mining  
United States Department of the Interior

1. Furnishing, erecting and removing the sign shall be incidental to the contract.
2. The sign shall be painted on 1/2" or thicker exterior plywood (4' x 8'), color shall be black on white, and a 10" diameter Illinois state seal shall be provided by the D.N.R.
3. The posts shall be made of 4" x 4" wood or 2.5" metal pipe, and shall be 10' long. The sign shall be securely fastened to the posts with six 2.5" long, round head wood screws (for wood posts) or four 5" long, 3/8" diameter carriage bolts (for wood or metal posts).
4. The top of the sign shall be level with the top of the posts, and the posts shall be 1' from the edges of the sign. The posts shall be set in the ground 3', so that the bottom of the sign is 3' from the ground.

B CONSTRUCTION SIGN DETAIL  
32 NOT TO SCALE  
EXACT LOCATION TO BE SET BY ENGINEER