

**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

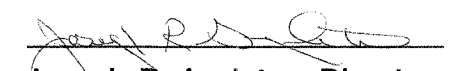
**Aley Mine**  
**Reclamation Project**  
**AML-GStE-0605**  
**Scott County**  
**1LR**

SCHEDULE OF DRAWINGS:

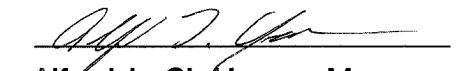
1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Existing & Proposed Conditions
4. Existing & Proposed Conditions
- 5-12. Cross-Sections
13. Details

Prepared By IDNR Staff

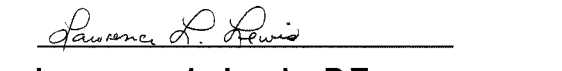
Approved for Bidding:

  
Joseph R. Angleton, Director  
Office of Mines and Minerals

Approved By:

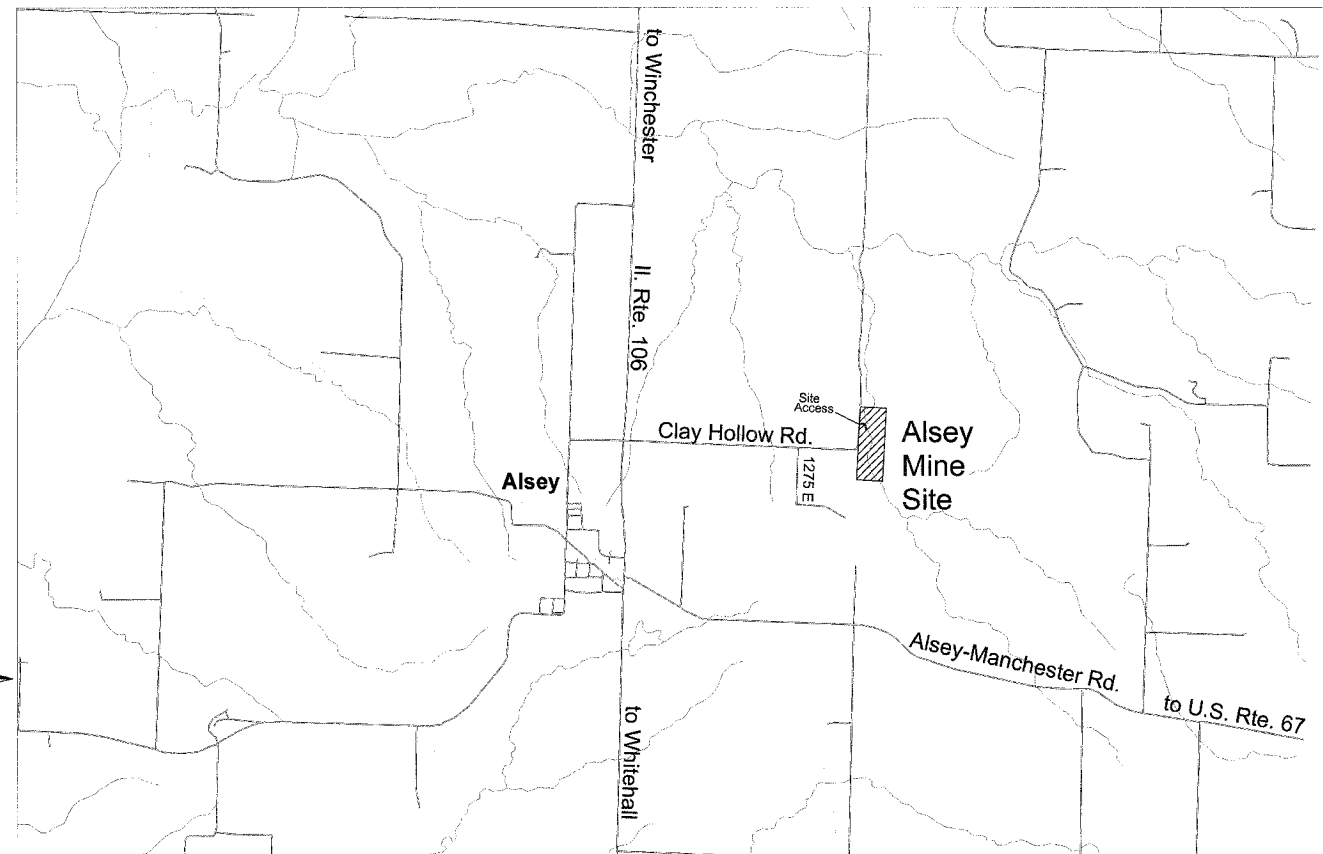
  
Alfred L. Clayborne, Manager  
AML Division

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	6,658	C.Y.	
3	Mine Refuse Excavation	202	26,222	C.Y.	
4	Special Excavation	214	35	C.Y.	
5	CA-6 Fill Material	216	65	Ton	
6	Seeding, Class 6, Conservation Mix	IDOT 250	6.8	Acre	
7	Nitrogen Fertilizer Nutrient	IDOT 250	1,632	Pound	See Application Rates - This Sheet
8	Phosphorous Fertilizer Nutrient	IDOT 250	1,360	Pound	See Application Rates - This Sheet
9	Potassium Fertilizer Nutrient	IDOT 250	3,060	Pound	See Application Rates - This Sheet
10	Agricultural Ground Limestone	IDOT 250	68	Ton	10 Tons/Acre
11	Mulch, Method 2, Procedure 2	IDOT 251	5.1	Acre	
12	Mine Refuse Treatment - Limestone	255	100	Ton	50 Tons/Acre
13	Filter Fabric for use w/Riprap	IDOT 282	38	S.Y.	
14	Stone Riprap, A-3	IDOT 281	38	S.Y.	
15	Special Excelsior Blanket	286	6231	S.Y.	
16	Aggregate Surface Course, Type B	IDOT 402	131.4	Ton	
17	Dewatering Impoundments	614	4	Each	
18	Mine Opening Marker	666	1	Each	
19	Mobilization (Max. 6% of Bid)	671	1	L.S.	



Location Map

**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 and restored to original or better condition at the completion of work by the contractor. Access roads to the site as designated in 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**-Tree removal shall be completed before April 1, 2007. Trees removed shall be disposed of onsite per Section 201 of the Special Provisions.

**ACID WATER TREATMENT**-If acid mine drainage treatment is determined necessary by the engineer, and not otherwise specified in the plans, any water treatment will be paid for in accordance with Article 109.04 of the Standard Specifications.

**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.

**MINE REFUSE TREATMENT**-After mine refuse has been graded to the subgrade shown in the plans, agricultural ground limestone shall be uniformly spread at the rate specified in the plans. A 3 inch layer of soil shall then be spread over the mine refuse treatment area and blended to a depth of 6 inches with an industrial offset disk approved by the engineer. Treated areas shall then be covered with 21 inches of soil.

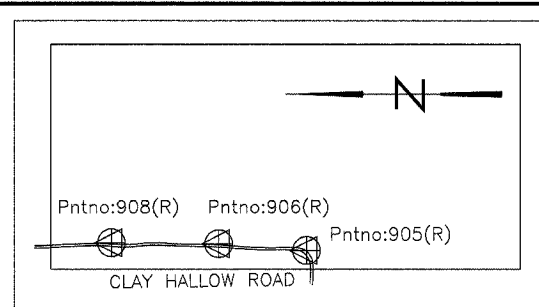
Schedule of Seeding, Fertilizer Nutrients and Mulch			
ITEM (unit)	April 15 - May 15, 2007	August 15 - August 30, 2007	TOTAL QUANTITY
SEEDING (acres)	6.8	-	6.8
AGRICULTURAL GROUND LIMESTONE (tons)	68	-	68
NITROGEN FERTILIZER NUTRIENT (pounds)	816 120 Lbs./Acre	816 120 Lbs./Acre	1632
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	680 100 Lbs./Acre	680 100 Lbs./Acre	1360
POTASSIUM FERTILIZER NUTRIENT (pounds)	2,380 350 Lbs./Acre	680 350 Lbs./Acre	3,060
MULCH, METHOD 2 PROCEDURE 2 (tons)	5.1 2 Tons/Acre	-	5.1

State of Illinois  
Department of Natural Resources

Aley Mine  
Reclamation Project  
AML-GSE-0605  
Scott County

Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Date: \_\_\_\_\_

Summary of Quantities/  
General Notes/Location Map  
Sheet  
2 of 13

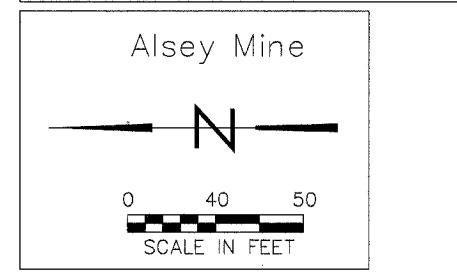


Traverse Layout Data

	NORTHING	EASTING
1	1,057,210	EAST EDGE OF CLAY HOLLOW RD.
2	1,057,210	2,227,550
3	1,057,300	2,227,550
4	1,057,300	2,227,600
5	1,057,200	2,227,625
6	1,057,075	2,227,725
7	1,057,075	2,227,850
8	1,057,100	2,227,850
9	1,057,150	EAST EDGE OF CREEK
10	1,057,200	EAST EDGE OF CREEK
11	1,057,150	2,227,900
12	1,057,200	2,227,925
13	1,057,600	2,227,975
14	1,057,700	2,227,975
15	1,057,700	2,228,000
16	1,057,625	2,228,050
17	1,057,600	2,228,200
18	1,057,550	2,228,240
19	1,057,525	2,228,240
20	1,057,525	2,228,200
21	1,057,400	2,228,200
22	1,057,315	2,228,150
23	1,057,250	2,228,020
24	1,057,180	2,228,020
25	1,057,090	2,227,900
26	1,057,060	2,227,900
27	1,057,060	2,228,000
28	1,056,900	2,227,980
29	1,056,825	2,227,910
30	1,056,625	2,227,910
31	1,056,566	2,228,066
32	1,056,402	2,228,062
33	1,056,400	2,227,860
34	1,056,270	2,227,940
35	1,056,100	2,227,980
36	1,056,050	2,227,950
37	1,056,050	EAST EDGE OF CREEK
38	1,057,000	EAST EDGE OF CREEK
39	1,056,925	2,227,800
40	1,056,925	2,227,700
41	1,056,950	2,227,675
42	1,057,000	2,227,675
43	1,057,050	2,227,700
44	1,057,190	2,227,585
45	1,057,170	EAST EDGE OF CLAY HOLLOW RD.

- 500' --- EXISTING CONTOUR
- 500 — PROPOSED CONTOUR
- - - - - EDGE OF MINE REFUSE
- - - - - CONSTRUCTION LIMITS
- — — — — EDGE OF ROAD
- ~~~~~ TREELINE
- - - - - EDGE OF WATER
- ⊙ SURVEY CONTROL POINT

Legend



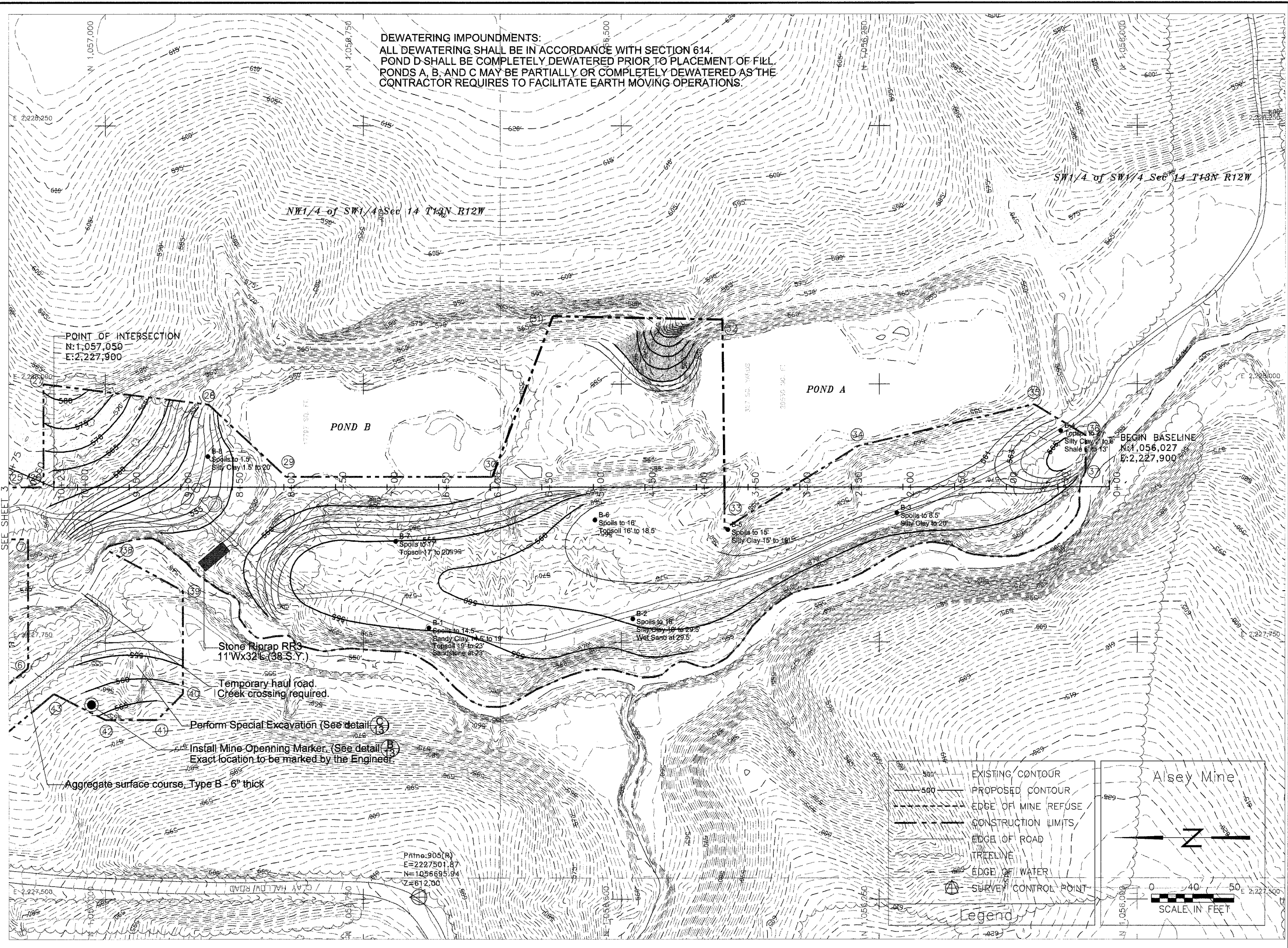
State of Illinois  
Department of Natural Resources

Alsey Mine  
Reclamation Project  
AML-GStE-0605  
Scott County

Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Date: \_\_\_\_\_

Existing and Proposed  
Conditions  
Sheet  
3 of 13





**DEWATERING IMPOUNDMENTS:**  
 ALL DEWATERING SHALL BE IN ACCORDANCE WITH SECTION 614.  
 POND D SHALL BE COMPLETELY DEWATERED PRIOR TO PLACEMENT OF FILL.  
 PONDS A, B, AND C MAY BE PARTIALLY OR COMPLETELY DEWATERED AS THE CONTRACTOR REQUIRES TO FACILITATE EARTH MOVING OPERATIONS.

POINT OF INTERSECTION  
 N: 1,057,050  
 E: 2,227,900

BEGIN BASELINE  
 N: 1,056,027  
 E: 2,227,900

Stone Riprap RR3  
 11' Wx32' L (38 S.Y.)

Temporary haul road.  
 Creek crossing required.

Perform Special Excavation (See detail 13)

Install Mine Opening Marker. (See detail 13)  
 Exact location to be marked by the Engineer.

Aggregate surface course, Type B - 6" thick

Pntno: 905(R)  
 E=2227501.87  
 N=1056695.94  
 Z=612.00

**Legend**

- 500 — EXISTING CONTOUR
- 500 — PROPOSED CONTOUR
- - - - - EDGE OF MINE REFUSE
- - - - - CONSTRUCTION LIMITS
- - - - - EDGE OF ROAD
- — — — — TREELINE
- — — — — EDGE OF WATER
- ⊕ SURVEY CONTROL POINT

Aley Mine

N

0 40 50  
SCALE IN FEET

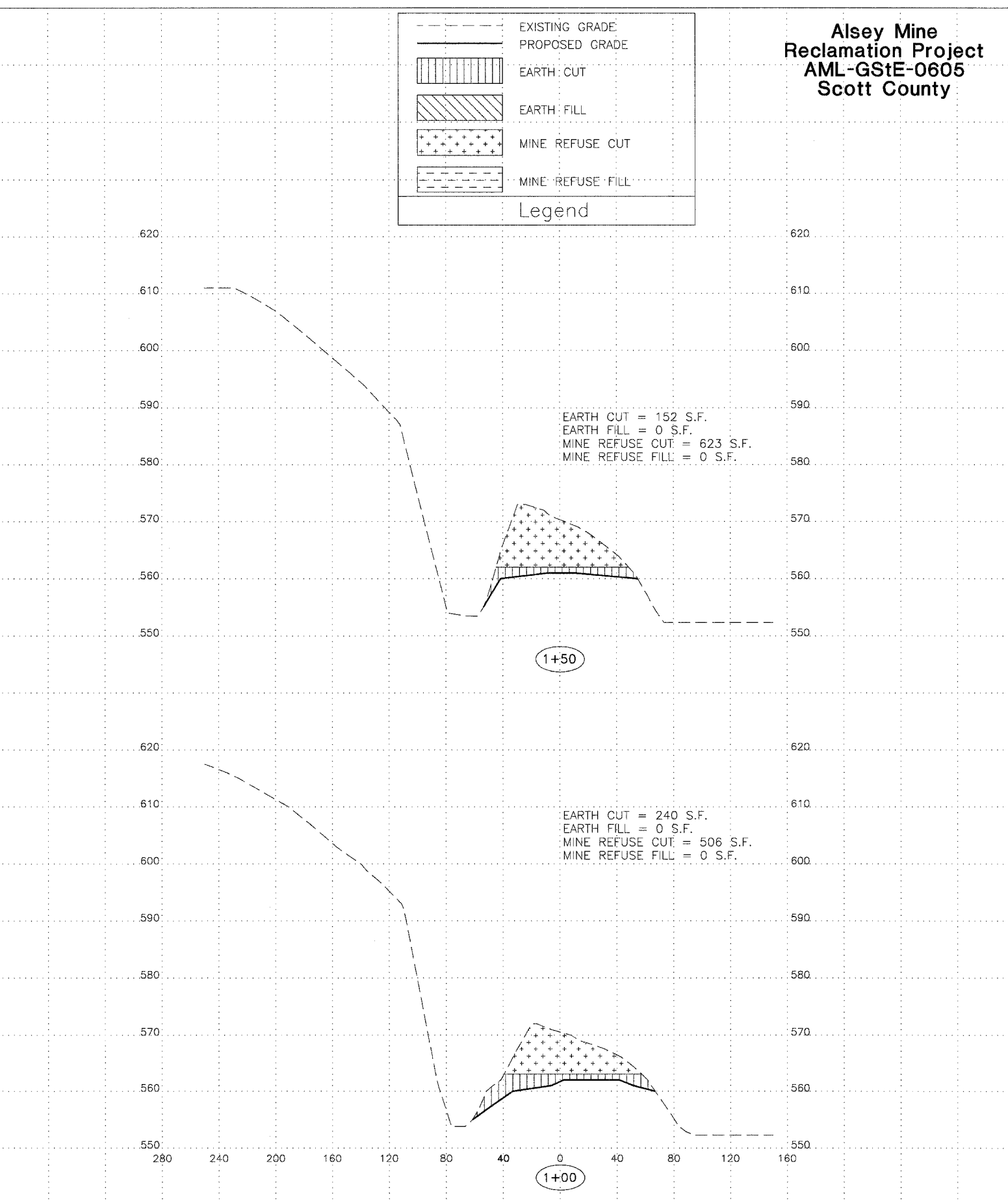
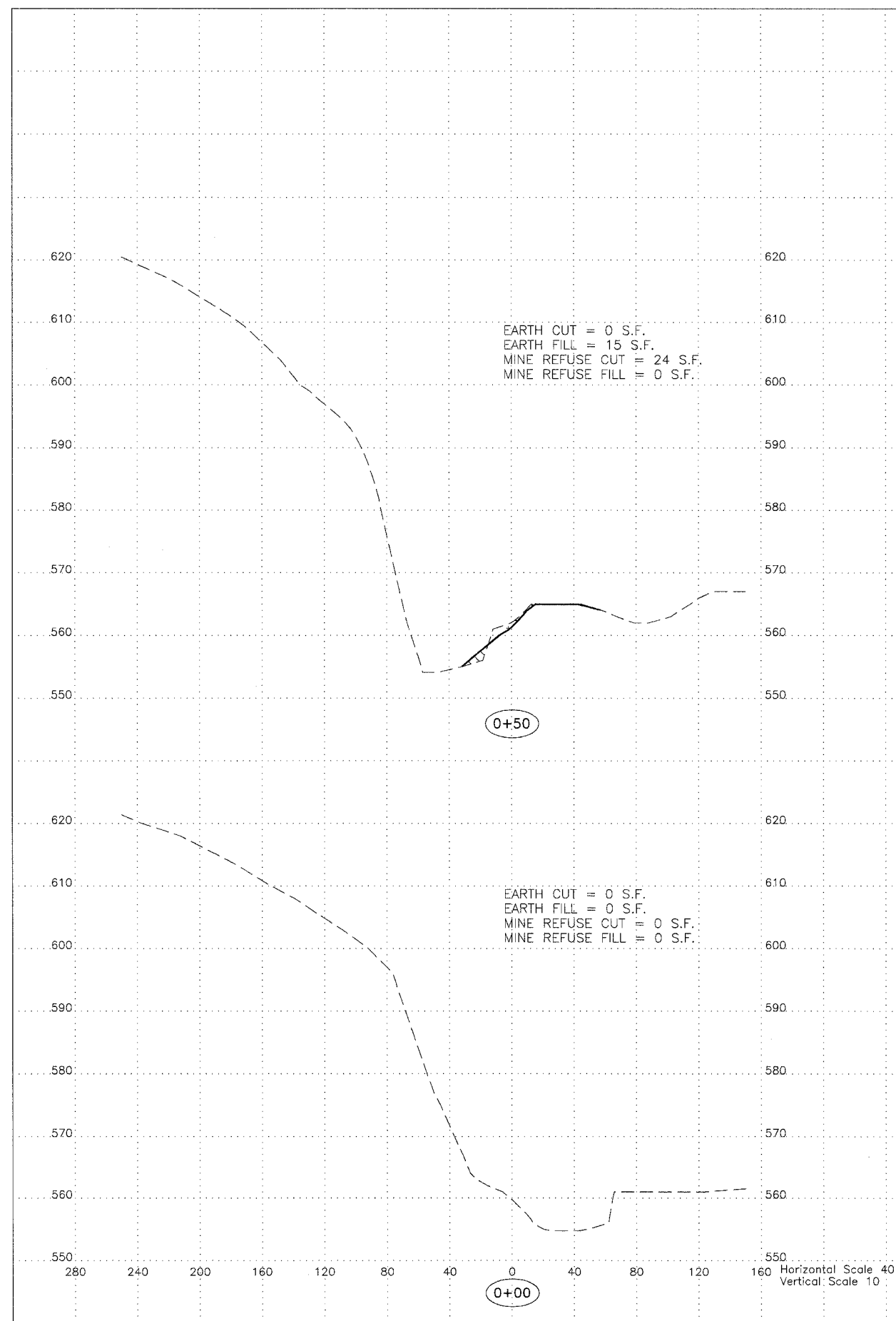
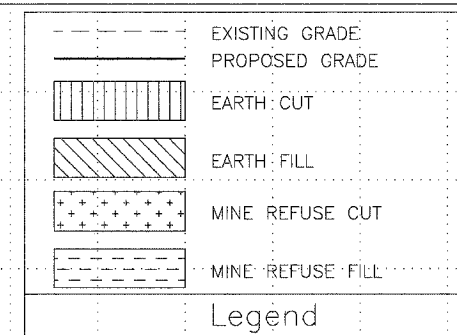
State of Illinois  
 Department of Natural Resources

Aley Mine  
 Reclamation Project  
 AML-GStE-0605  
 Scott County

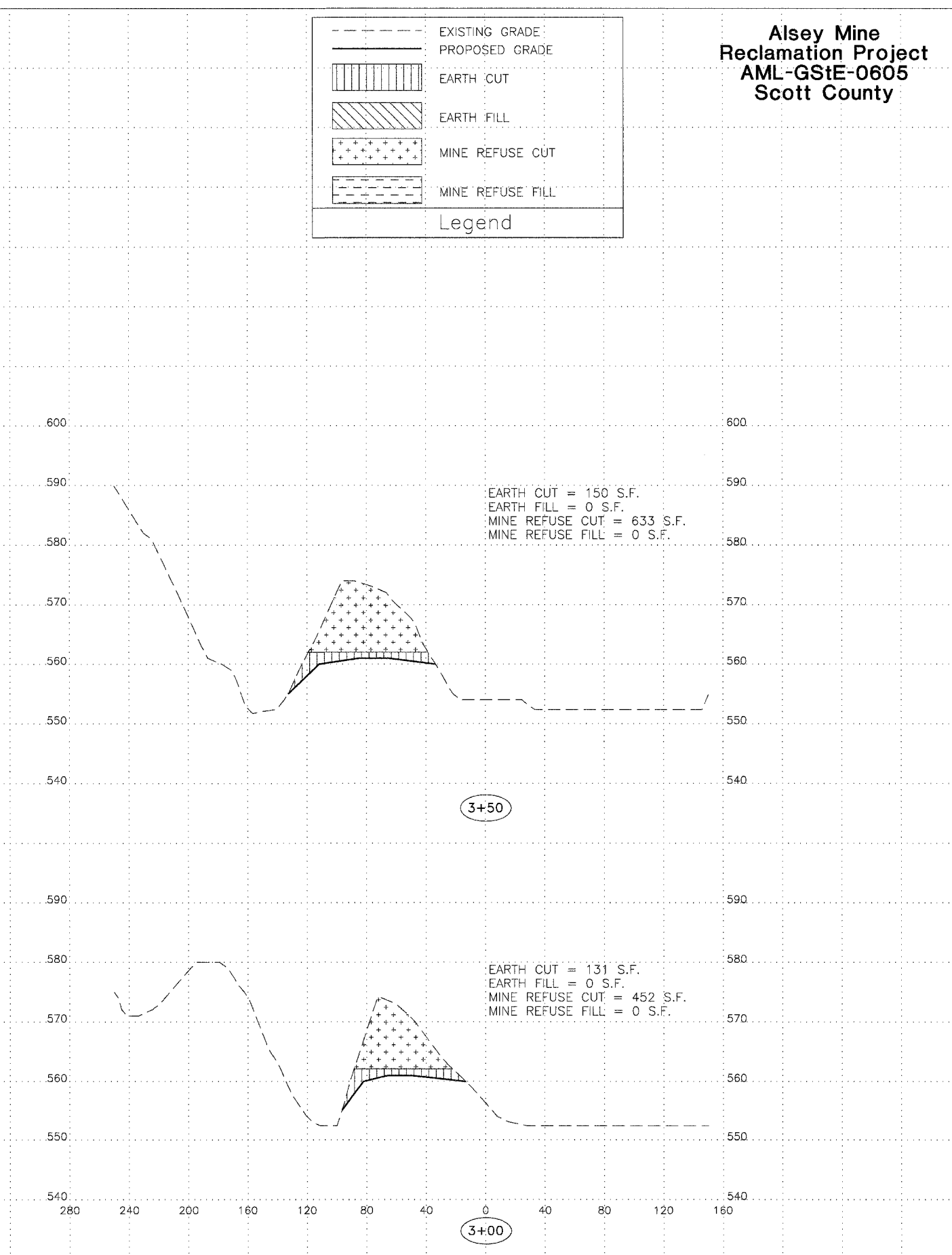
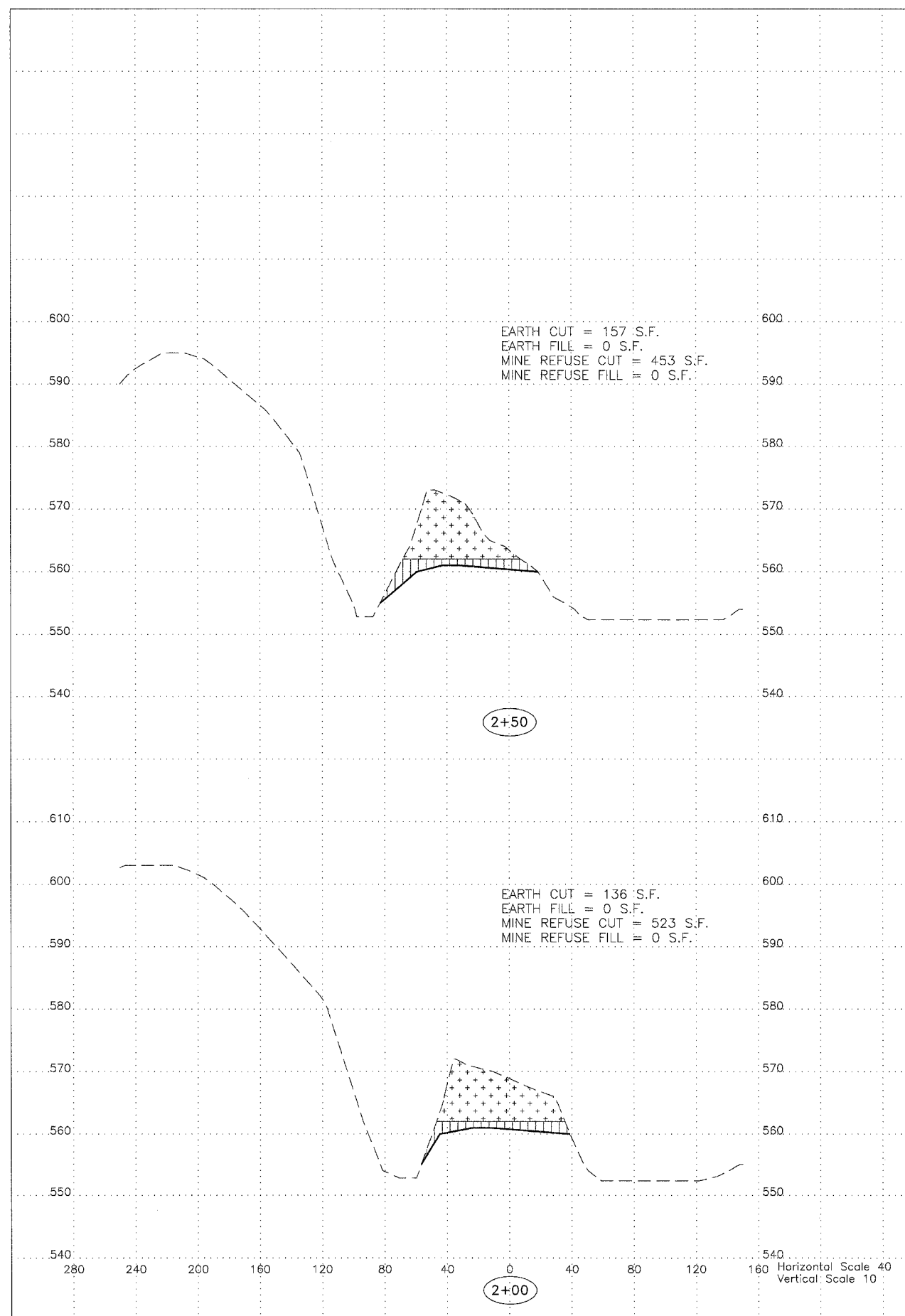
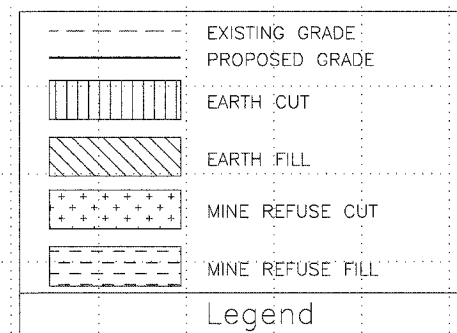
Drawn By: \_\_\_\_\_  
 Checked By: \_\_\_\_\_  
 Date: \_\_\_\_\_

Existing and Proposed  
 Conditions  
 Sheet  
 4 of 13

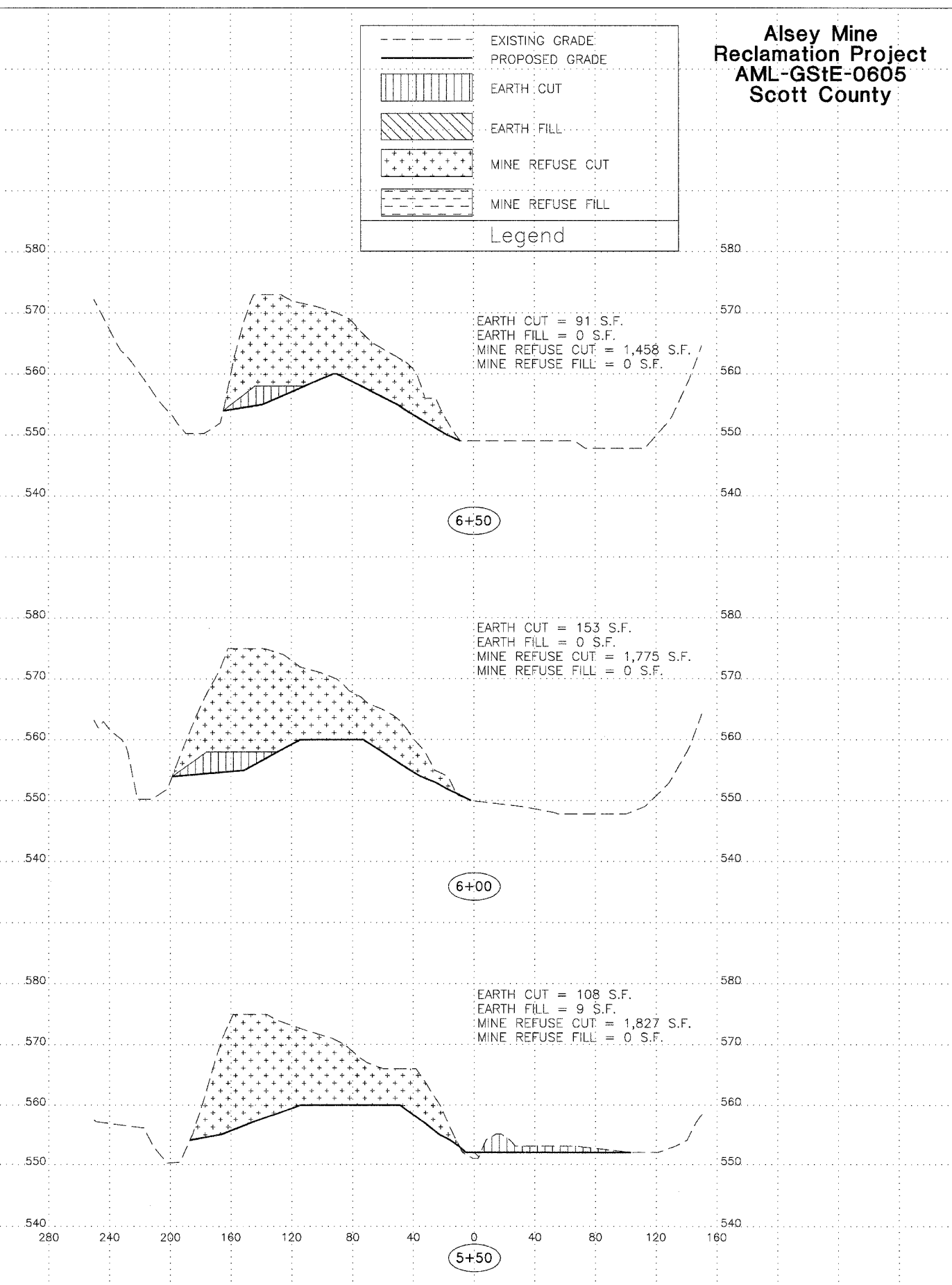
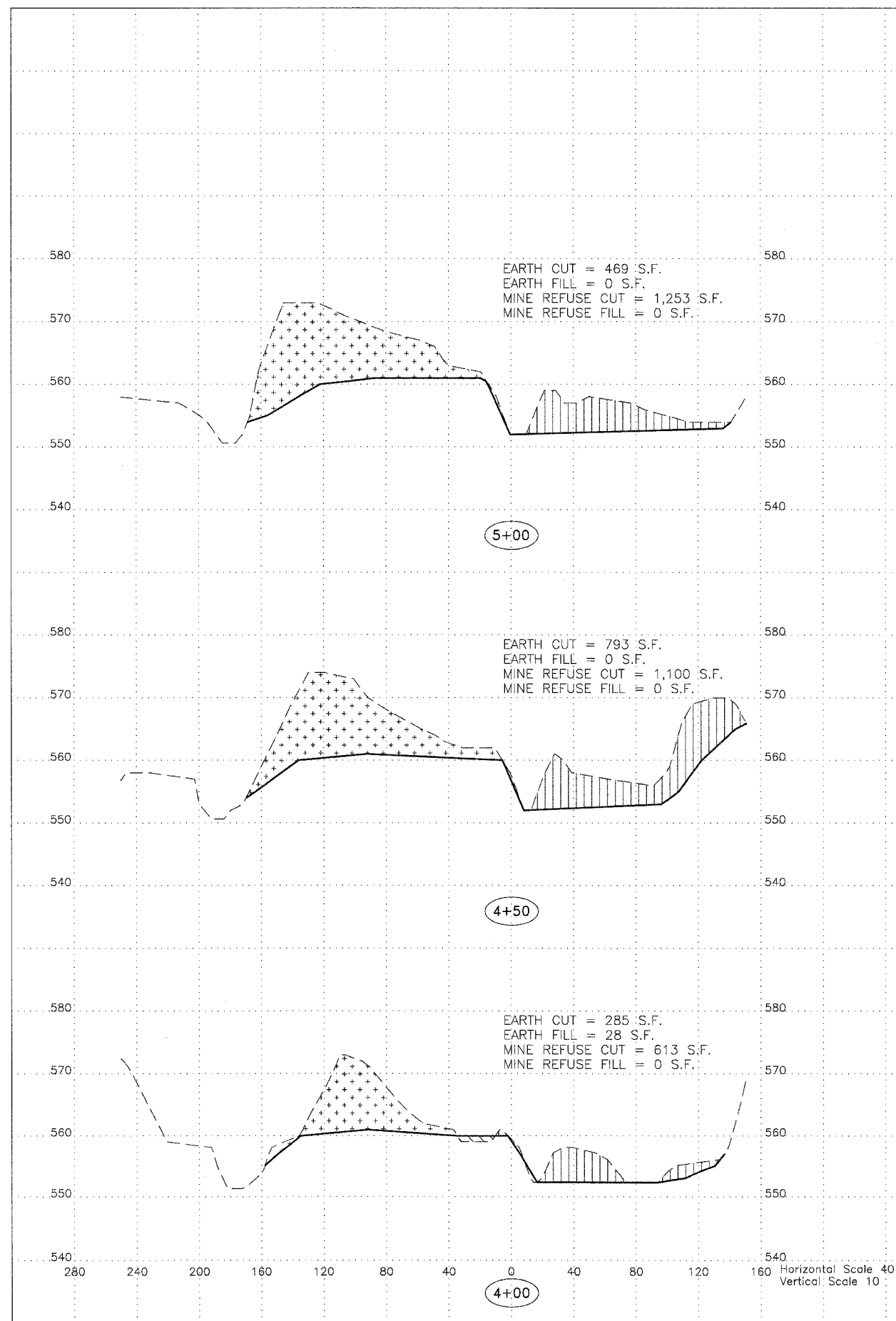
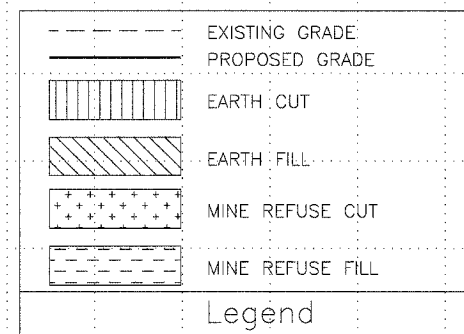
**Alsey Mine  
Reclamation Project  
AML-GStE-0605  
Scott County**



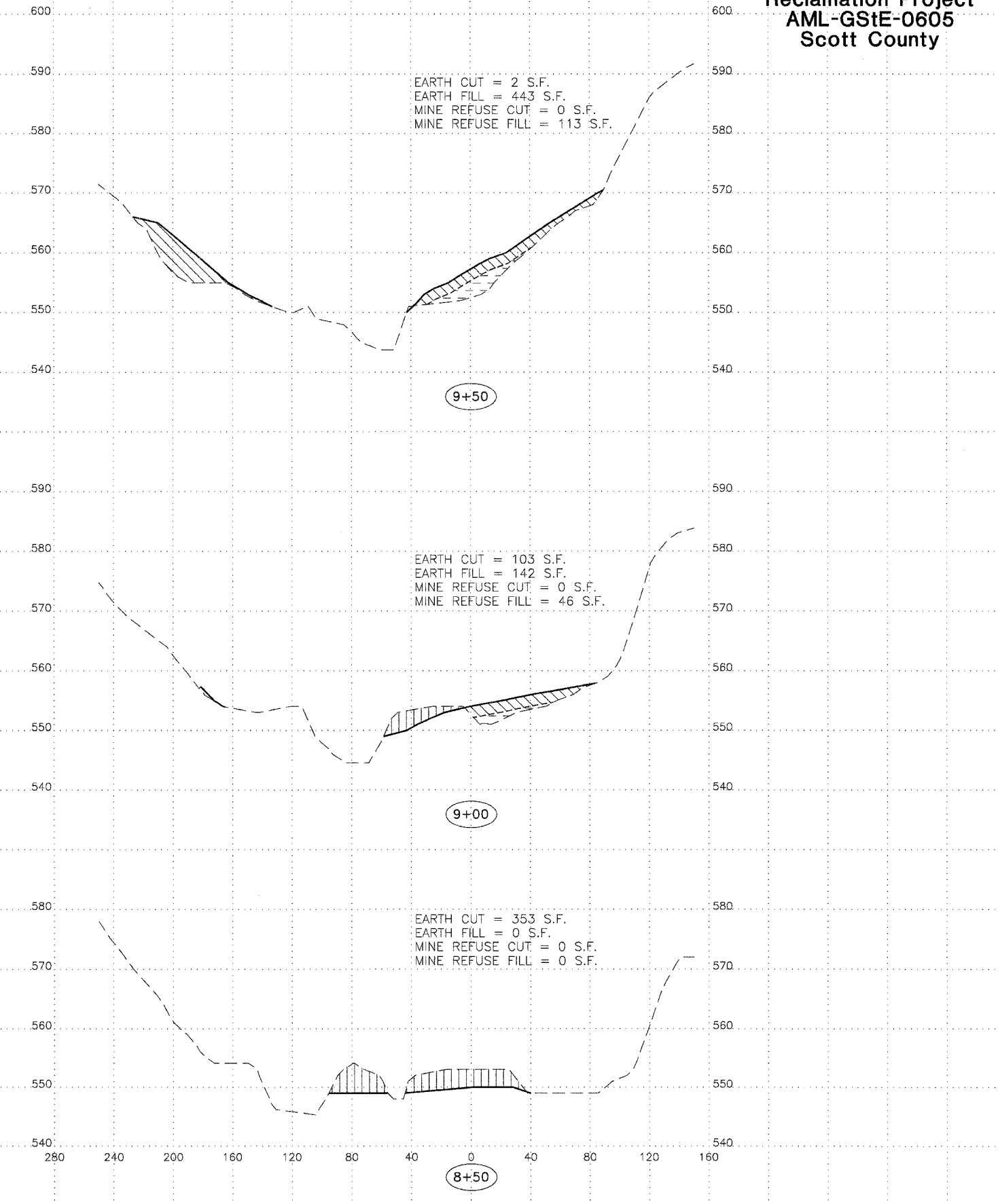
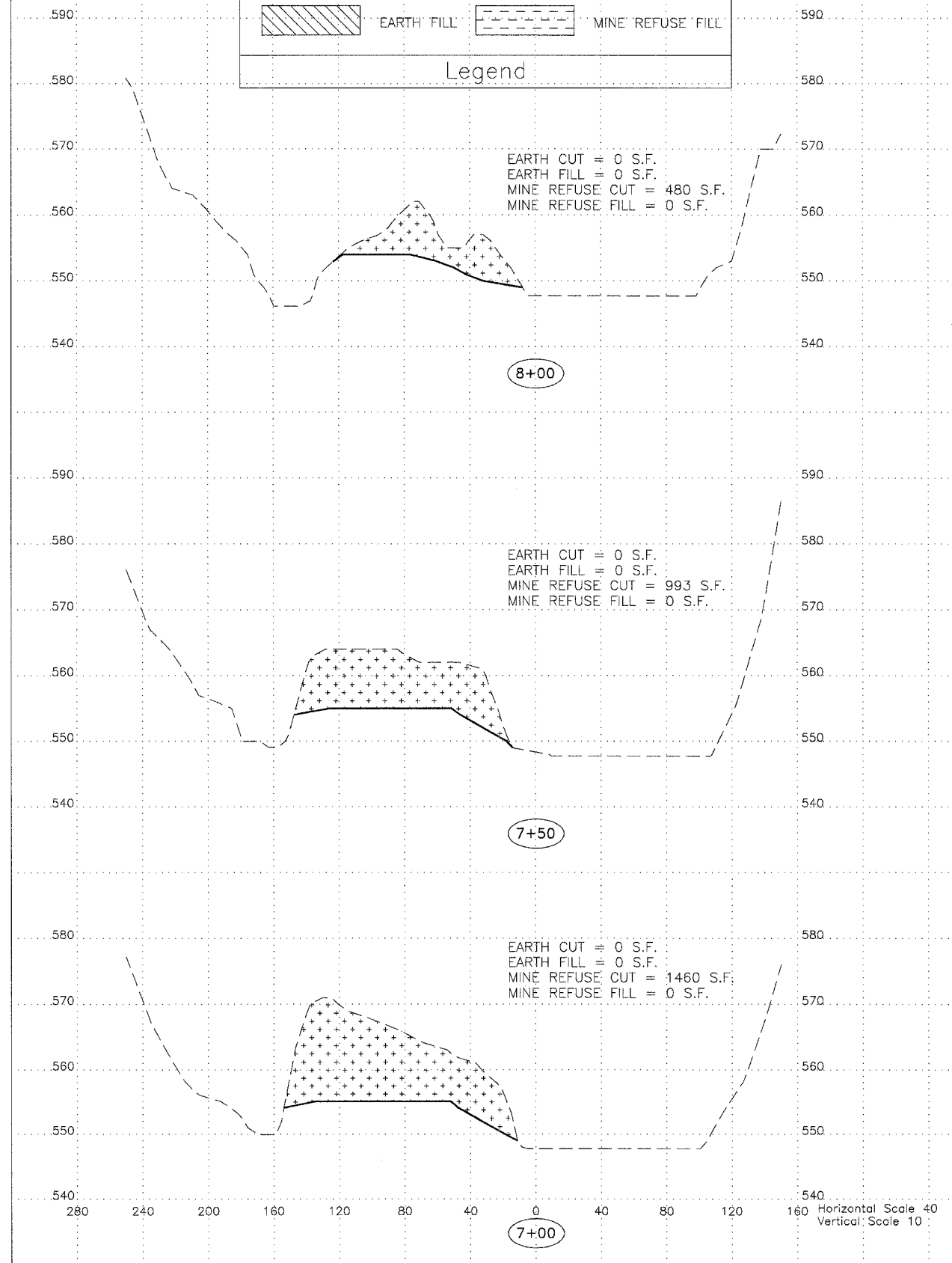
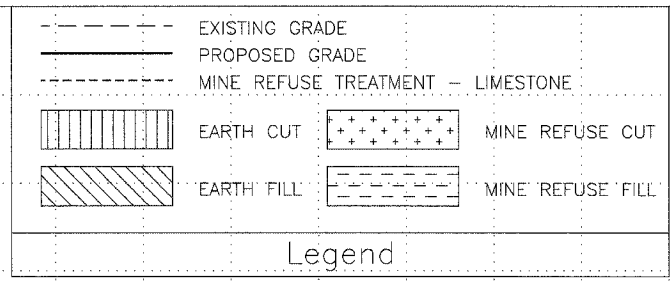
**Alsey Mine  
Reclamation Project  
AML-GStE-0605  
Scott County**



**Alsey Mine  
Reclamation Project  
AML-GStE-0605  
Scott County**

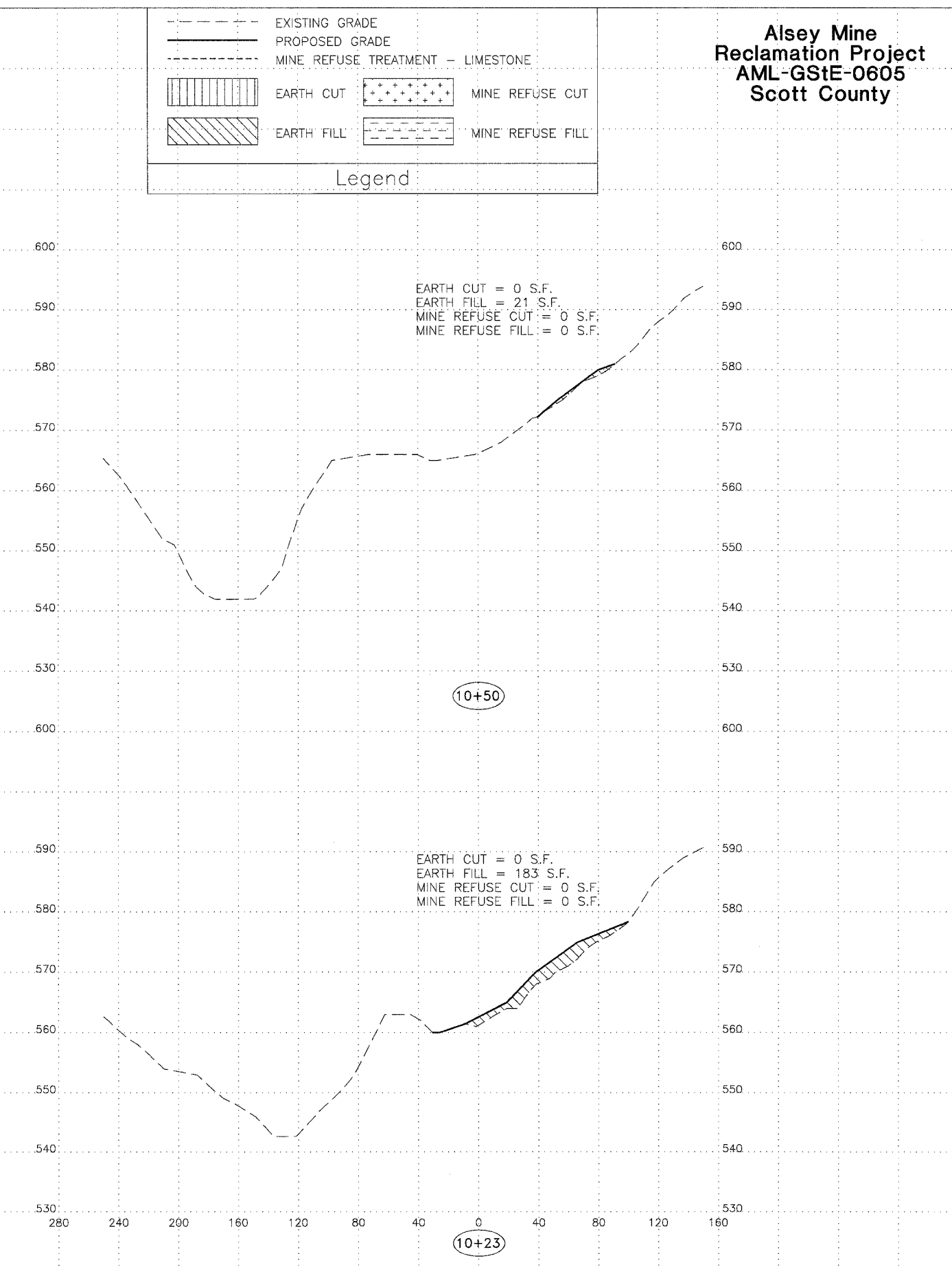
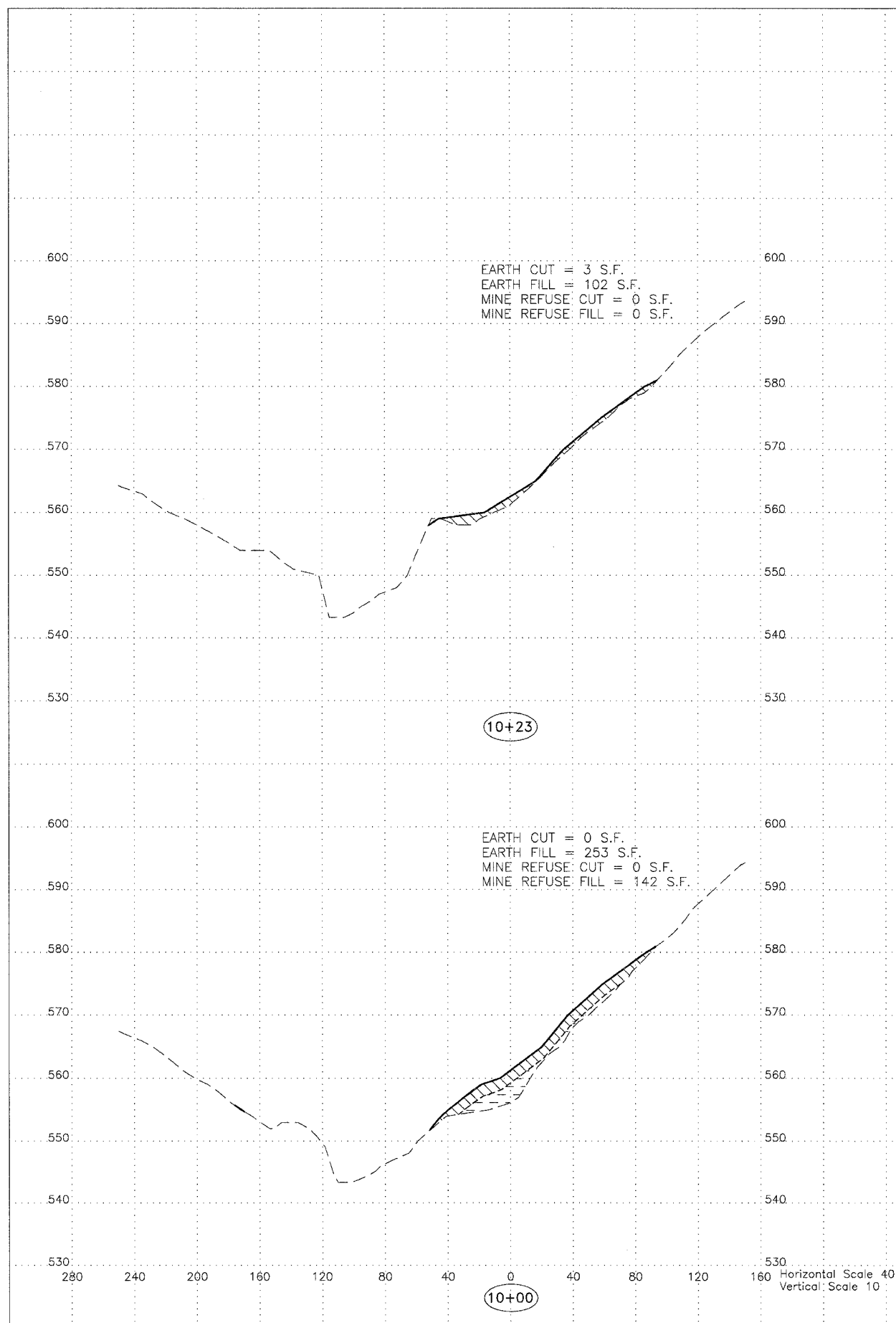
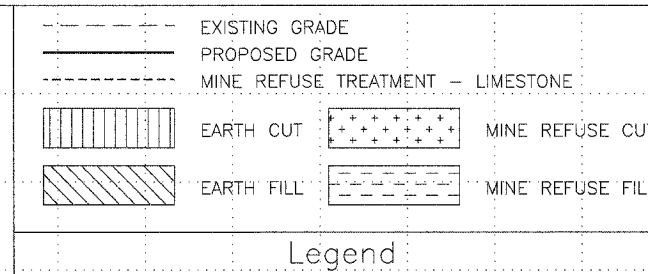


**Alsey Mine  
Reclamation Project  
AML-GStE-0605  
Scott County**

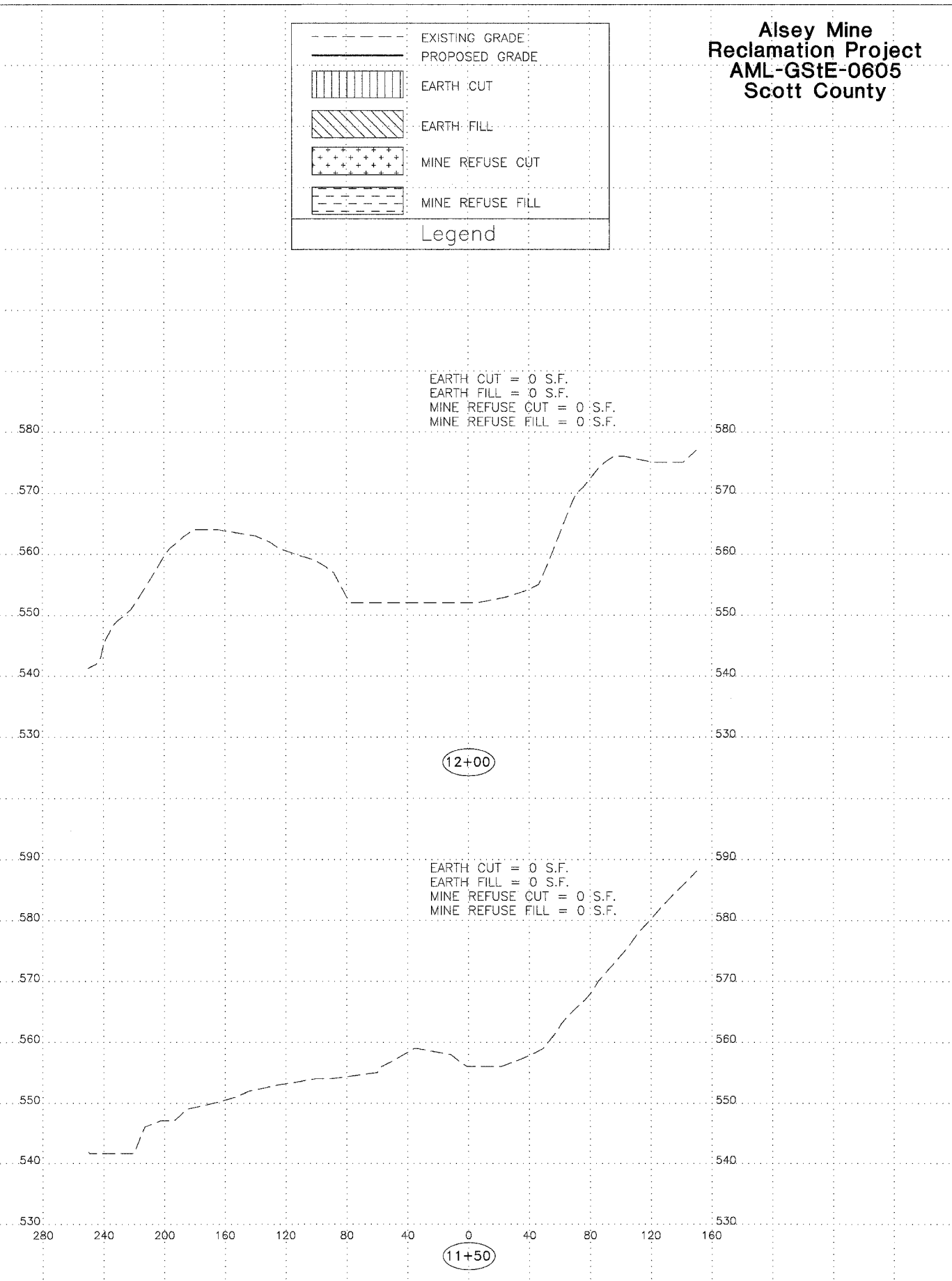
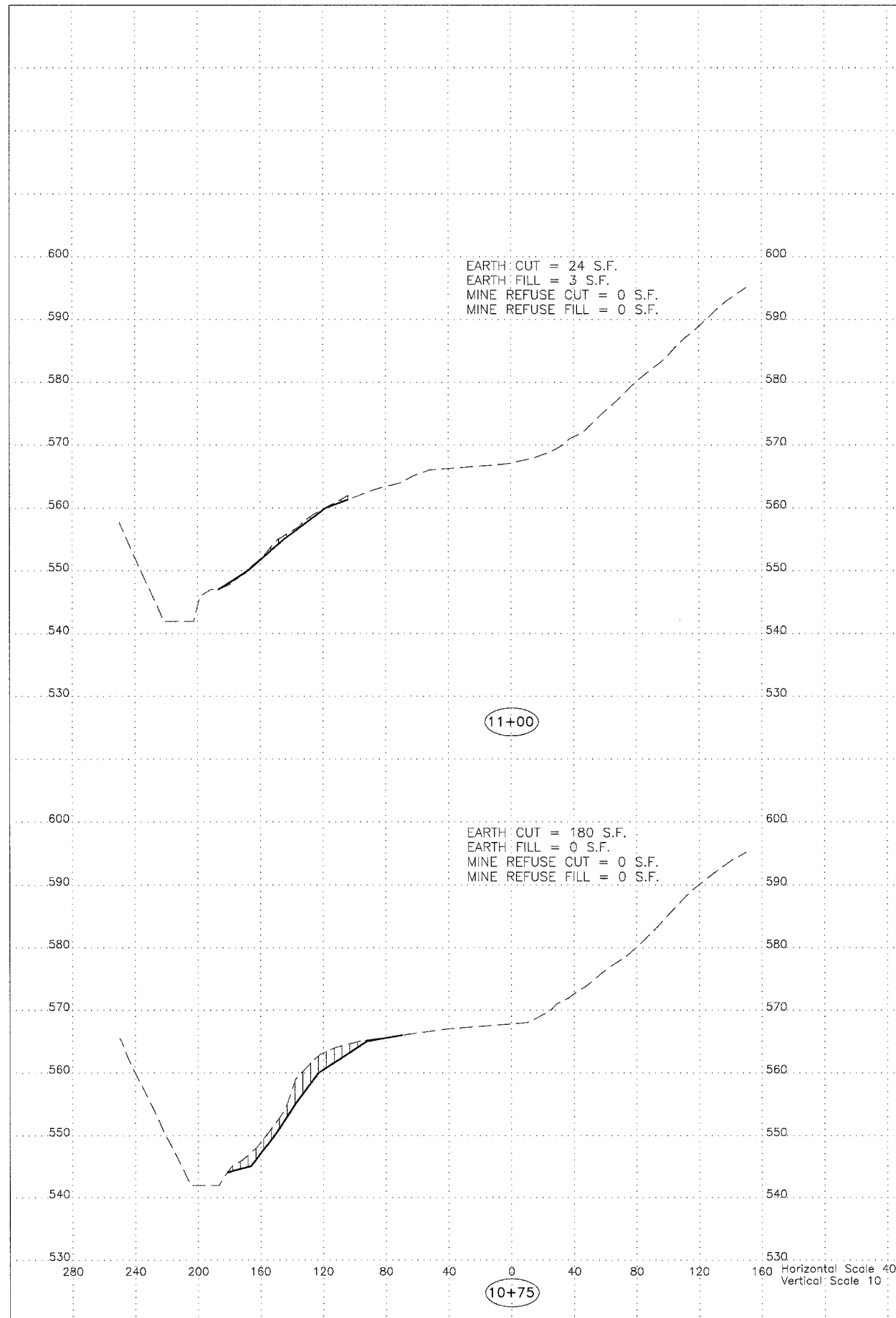
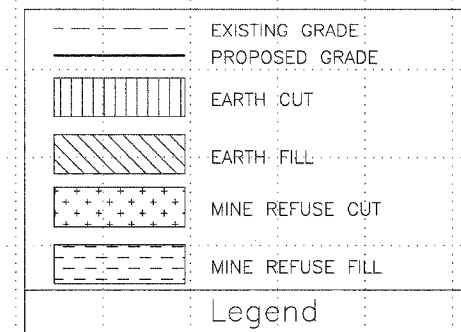




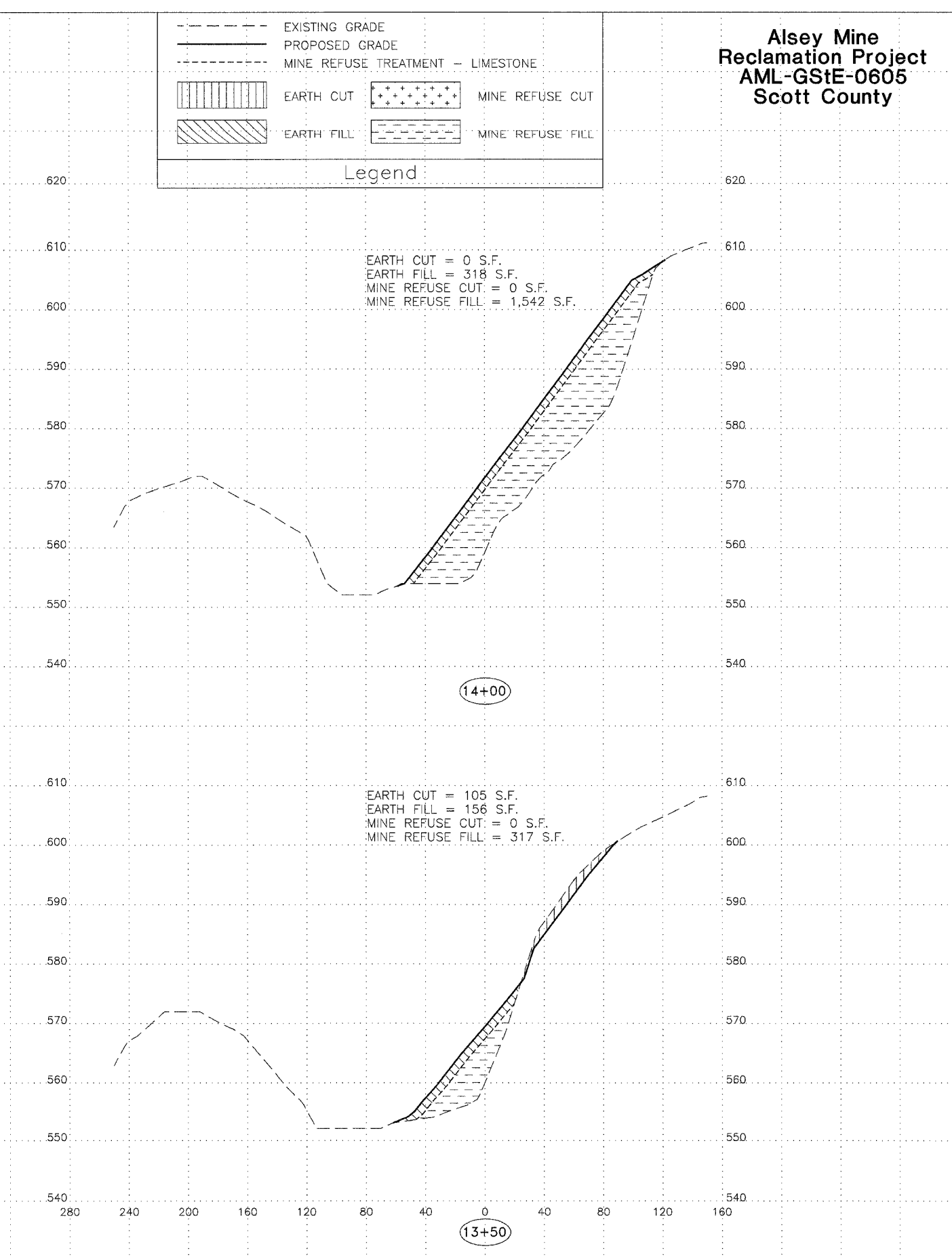
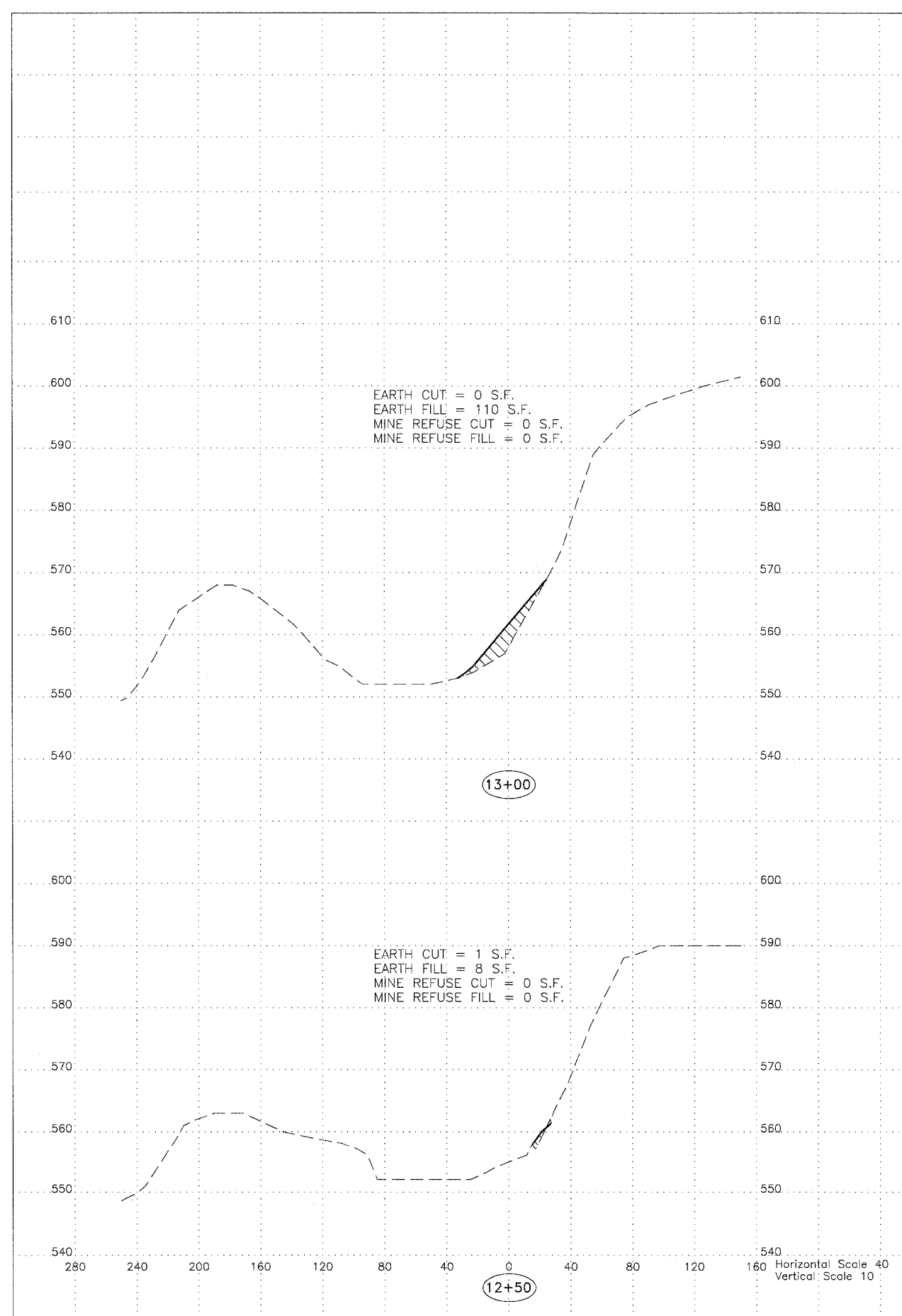
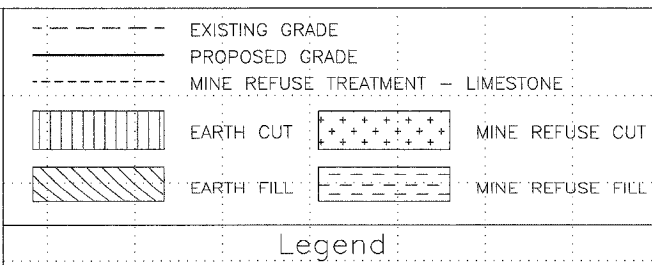
**Aley Mine  
Reclamation Project  
AML-GStE-0605  
Scott County**



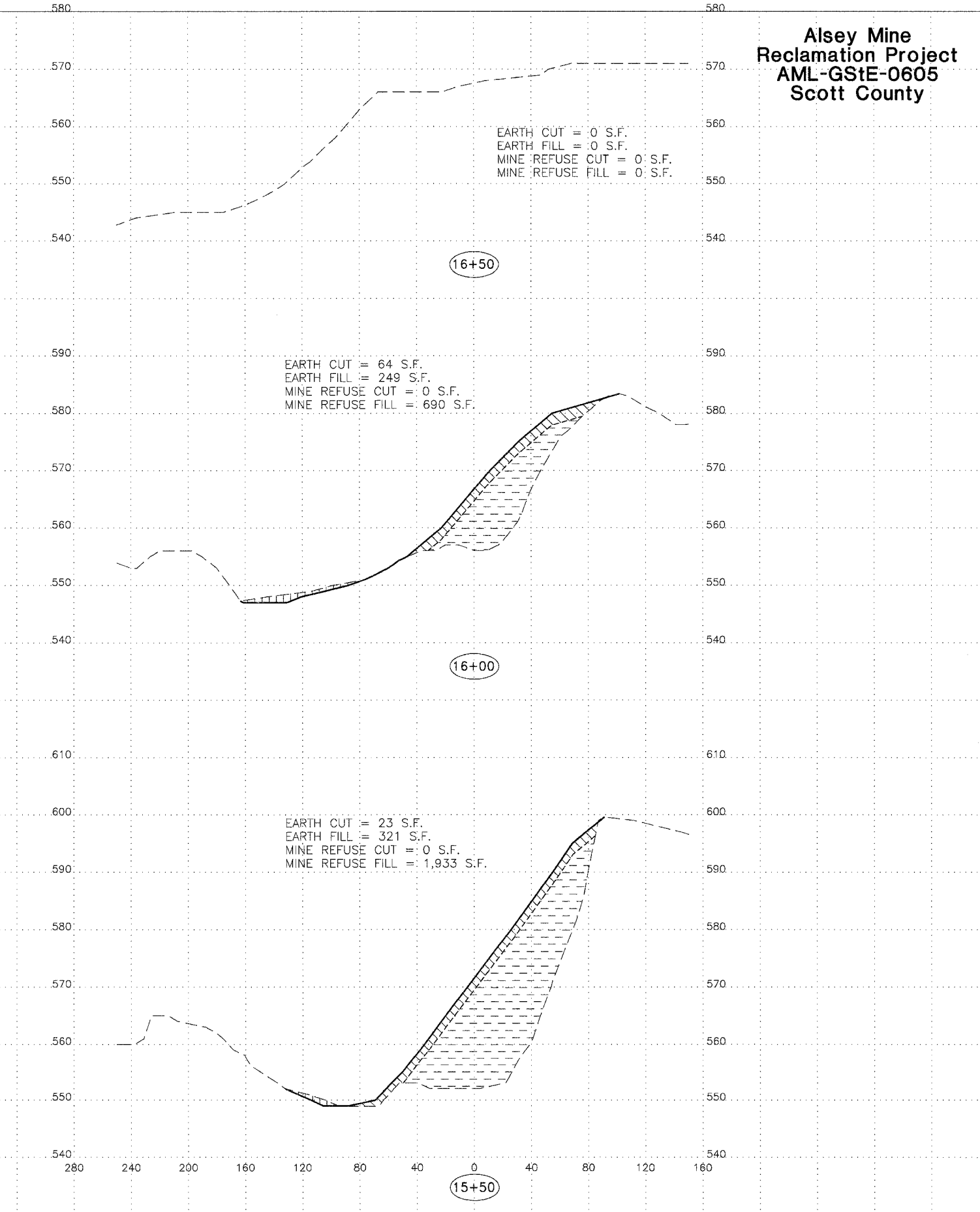
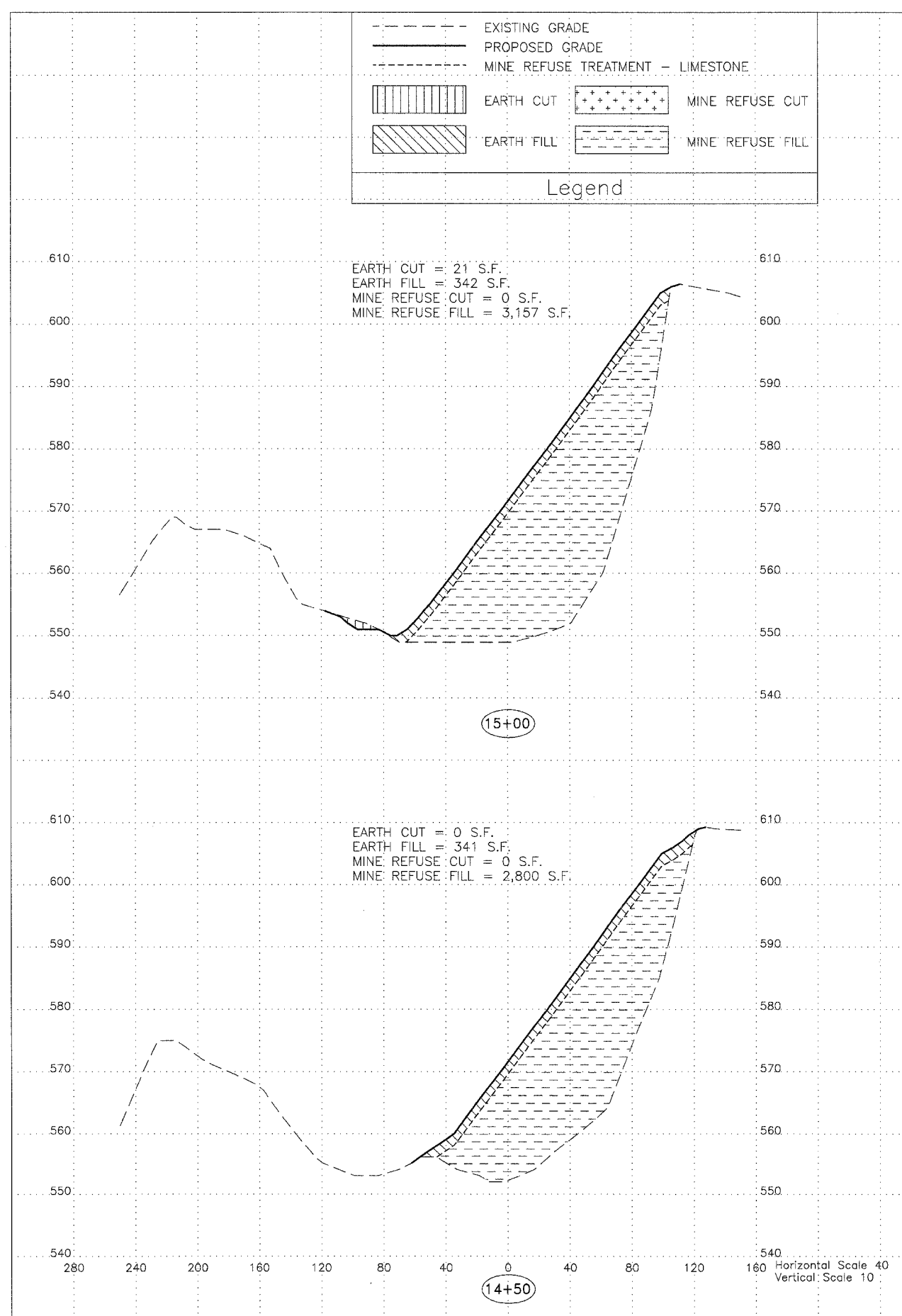
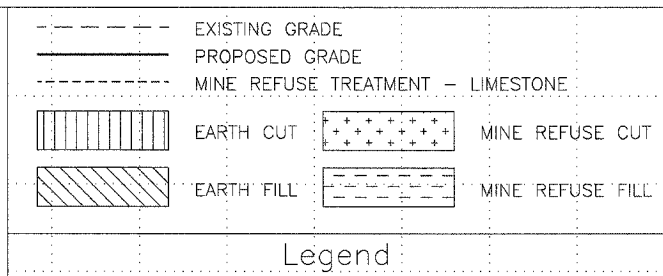
**Aley Mine  
Reclamation Project  
AML-GStE-0605  
Scott County**

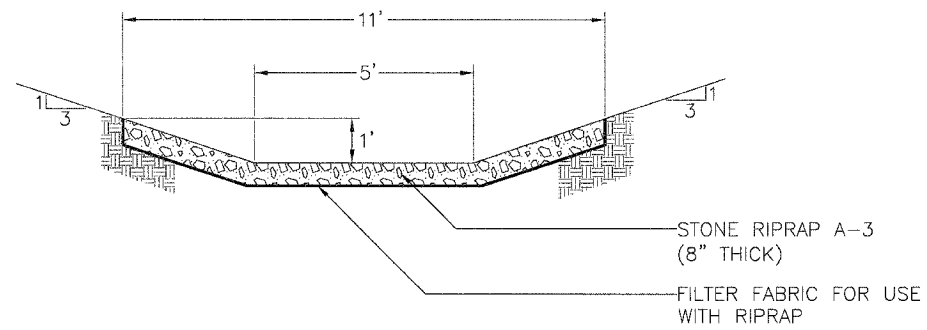


**Aley Mine  
Reclamation Project  
AML-GStE-0605  
Scott County**

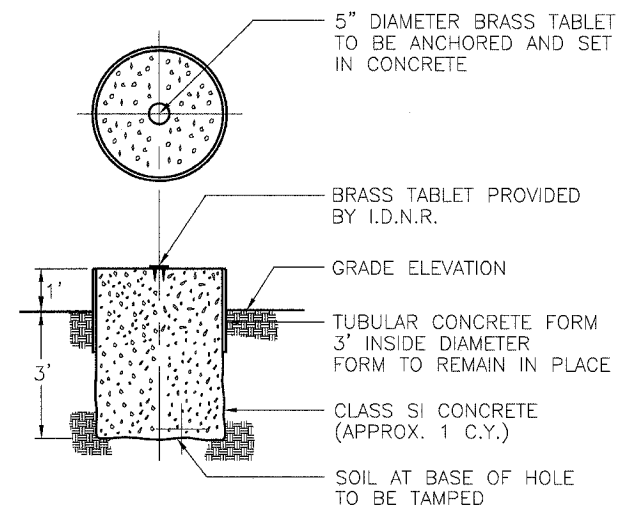


**Alsey Mine  
Reclamation Project  
AML-GStE-0605  
Scott County**

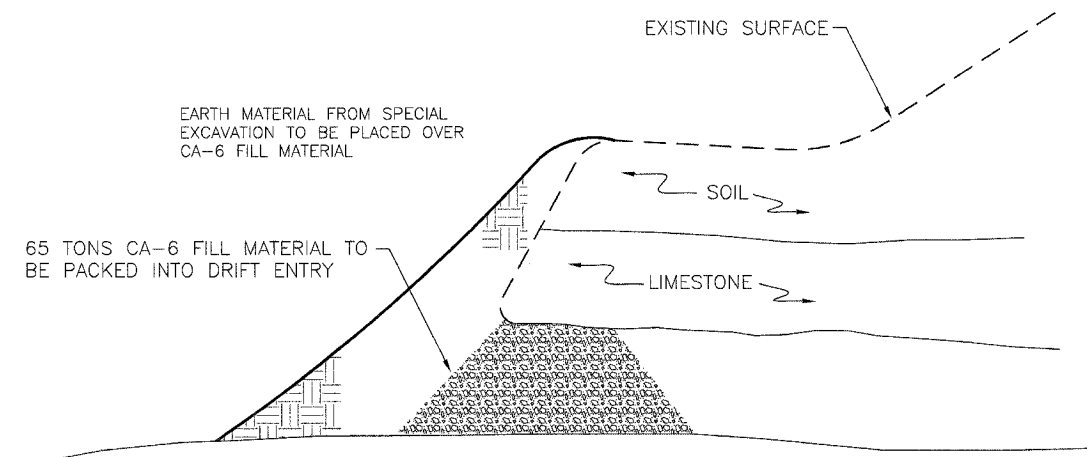
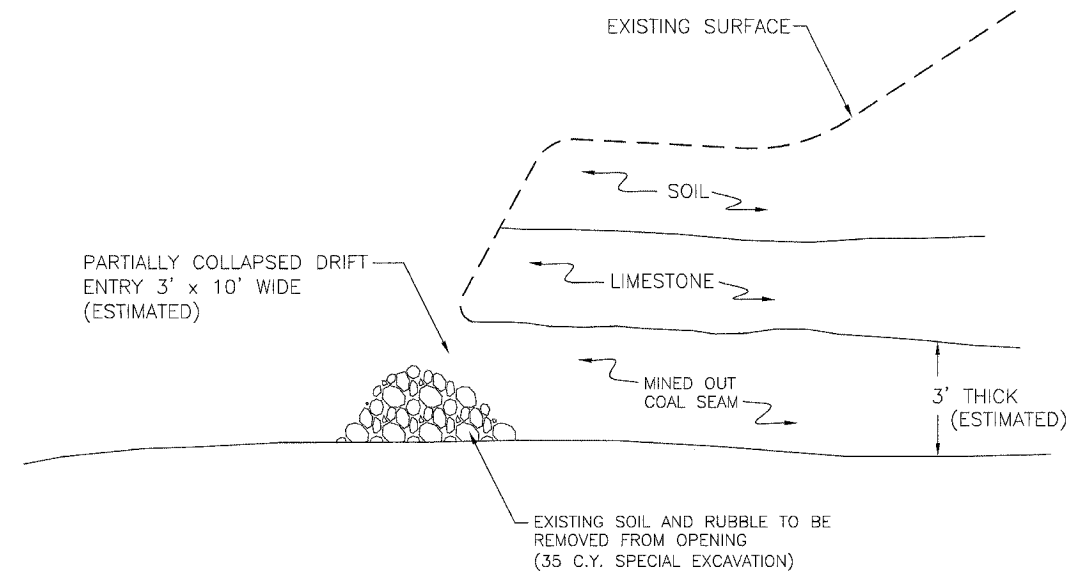




**A RIPRAP LINED DITCH DETAIL**  
13 NOT TO SCALE



**B MINE OPENING MARKER DETAIL**  
13 NOT TO SCALE  
EXACT LOCATION TO BE SET BY ENGINEER



**NOTE:**  
DUE TO THE UNKNOWN CONDITIONS THAT EXIST IN AND AROUND THE DRIFT ENTRY, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN PERFORMING WORK NEAR THE ENTRY. THE ENGINEER RESERVES THE RIGHT TO INCREASE OR DECREASE THE QUANTITY FOR SPECIAL EXCAVATION AND BACKFILLING MATERIALS AS DETERMINED BY THE EXACT CONDITIONS ENCOUNTERED DURING SPECIAL EXCAVATION,

**C DRIFT ENTRY FILLING DETAIL**  
13 NOT TO SCALE