

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

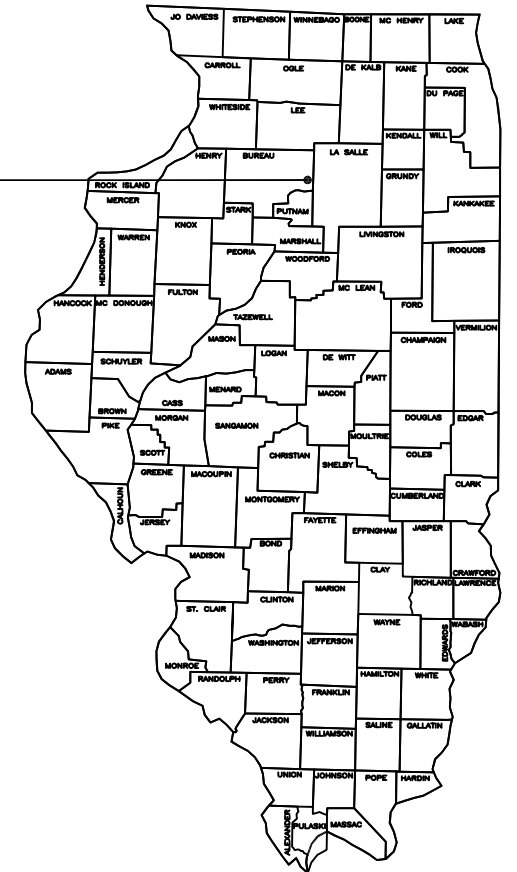
Funded by the
 United States Department of Interior
 Federal Office of Surface Mining

**Illinois Third Vein Mine
 Reclamation Project
 AML-GBuE-1406
 Bureau County
 1LR**

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
- 3-6. Existing and Proposed Conditions
- 7-27. Cross Sections
28. Details

Illinois Third Vein Coal Company
 Bureau County



Pre-Bid Meeting:

A pre-bid meeting is scheduled for this project at 10:00 AM, Thursday, November 13, 2014 at the site.

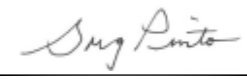
Certified Copy

Prepared By IDNR Staff

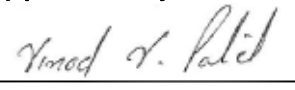
Approved for Bidding:


 James Haflinger, Acting Director
 Office of Mines and Minerals

Approved By:

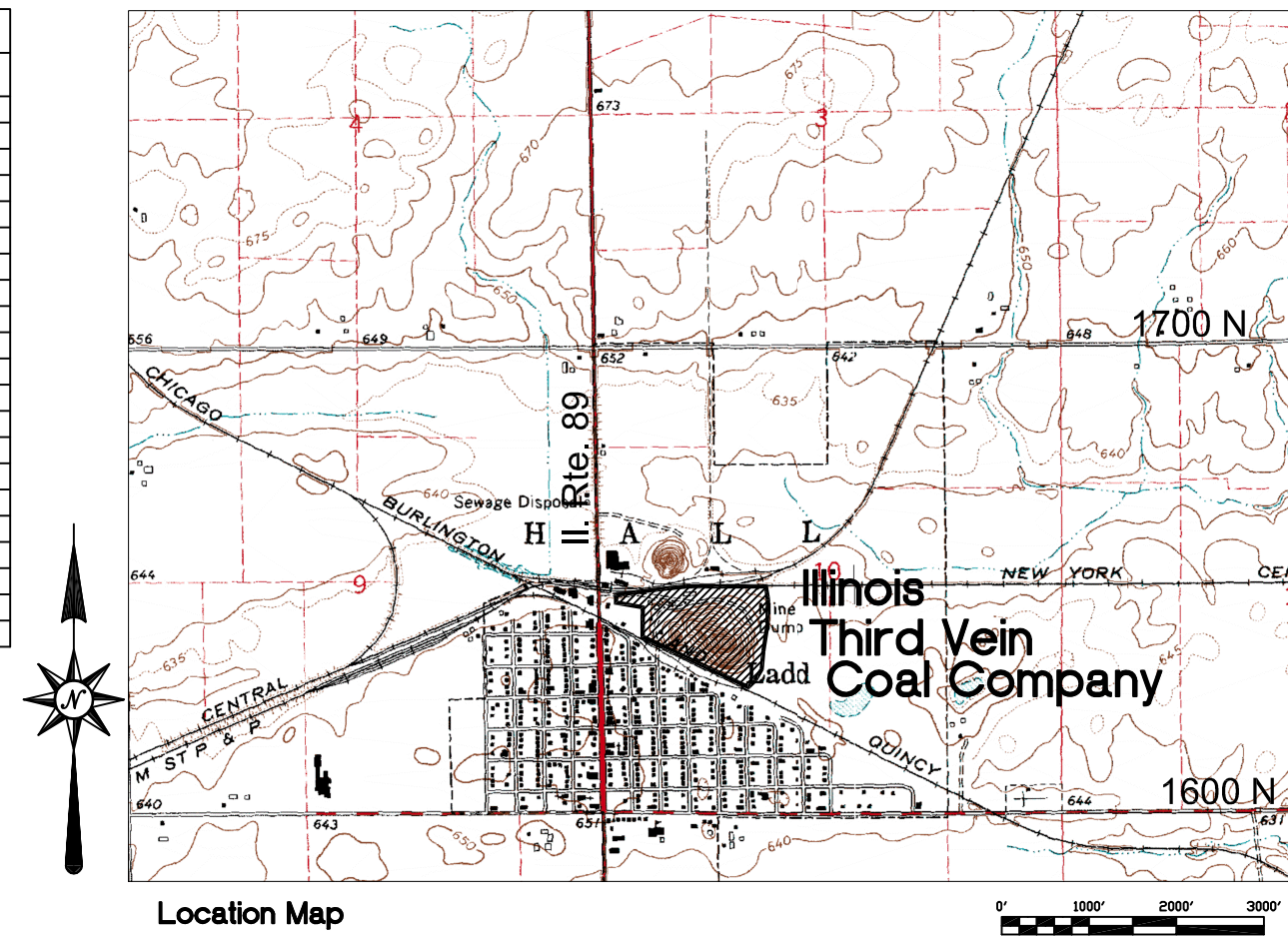

 Greg Pinto, Acting Manager
 AMLR Division

Approved By:


 Vinodchandra V. Patel
 IL Licensed Professional Engineer
 No. 062.046043



Summary of Quantities					
Item No.	#	Item	Section	Quantity	Unit Rates/Remarks
NRM20110	1	Special Clearing	201	1	L SUM
NRM20210	2	Earth Excavation	202	216,121	CU YD Compact per Section 205
NRM20230	3	Mine Refuse Excavation	202	580,124	CU YD Compact per Section 205
NRM21510	4	Special Excavation	215	241	CU YD
NRM21621	5	CA 1 Fill	216	262	TON
NRM21626	6	CA 6 Fill	216	9,730	TON
NRM21643	7	Rock Fill RR-3	216	257	TON
NRM25040	8	Nitrogen Fertilizer Nutrient	250	10,008	POUND See Schedule - This Sheet
NRM25050	9	Phosphorous Fertilizer Nutrient	250	12,510	POUND See Schedule - This Sheet
NRM25060	10	Potassium Fertilizer Nutrient	250	20,850	POUND See Schedule - This Sheet
NRM25070	11	Agricultural Ground Limestone	250	83.4	TON See Schedule - This Sheet
NRM25090	12	Seeding	250	41.7	ACRE See Schedule - This Sheet
25100115	13	Mulch, Method 2, Procedure 1	IDOT 251	41.7	ACRE See Schedule - This Sheet
NRM25510	14	Mine Refuse Treatment - Limestone	255	834	TON 20 Ton/Acre
NRM25620	15	Incorporation - Mulch	256	41.7	ACRE
NRM25810	16	Mowing	258	41.7	ACRE
NRM28040	17	Perimeter Erosion Barrier	280	5,382	FOOT Silt Fence
NRM28610	18	Special Excelsior Blanket	286	14,124	SQ YD
NRM50101	19	Removal of Existing Structures	501	1	L SUM
NRM66610	20	Mine Opening Marker	666	3	EACH
NRM67110	21	Mobilization (Max. 6% of Bid)	671	1	L SUM



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 specifications.

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 table - 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 specifications.

TREE REMOVAL - Trees removed shall be disposed of onsite per Section 201 of the specifications. All tree removal shall be completed before April 1, 2015.

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 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 1 of Article 251.03 of the 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 three-inch layer of soil shall then be spread over the mine refuse treatment area and blended to a depth of six inches with an industrial offset disk approved by the Engineer. Treated areas shall then be covered with soil as specified.

Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing				
ITEM (Unit)	August 1st, 2015 - September 1st, 2015	Mowing Date to be set by Engineer	April 1st, 2016 - May 15th, 2016	TOTAL QUANTITY
SEEDING (Acres)	41.7 Acres			41.7 Acres
AGRICULTURAL GROUND LIMESTONE (Tons)	83.4 Tons (2 Tons/Acre)			83.4 Tons
NITROGEN FERTILIZER NUTRIENT (Pounds)	5004 Pounds (120 Pounds/Acre)		5004 Pounds (120 Pounds/Acre)	10008 Pounds
PHOSPHOROUS FERTILIZER NUTRIENT (Pounds)	6,255 Pounds (150 Pounds/Acre)		6,255 Pounds (150 Pounds/Acre)	12,510 Pounds
POTASSIUM FERTILIZER NUTRIENT (Pounds)	10,425 Pounds (250 Pounds/Acre)		10,425 Pounds (250 Pounds/Acre)	20,850 Pounds
MULCH, METHOD 2 PROCEDURE 1 (Tons)	83.4 Tons (2 Tons/Acre)			83.4 Tons
MOWING (Acres)		41.7 Acres		41.7 Acres

State of Illinois
Department of Natural Resources

Illinois Third Vein C.C.
Reclamation Project
AML-GBuE-1406
Bureau County

Drawn By: J. Maddox
Checked By: _____
Date: 10/20/14

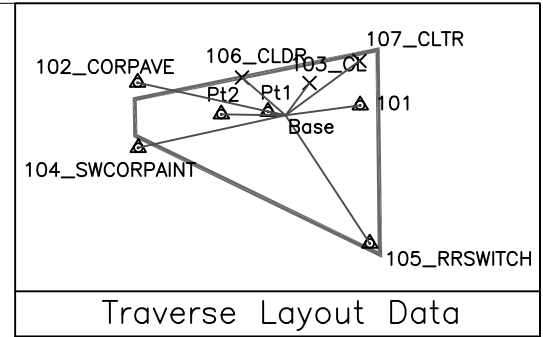
Summary of Quantities/
General Notes/Location Map
Sheet
2 of 28

SPACING LETTERS	
2.0"	3.5"
1.5"	3.5"
1.5"	3.5"
1.5"	3.5"
3.5"	3.0"
3.5"	2.5"
1.5"	2.5"
3.5"	2.0"
1.5"	2.0"
2.0"	2.0"

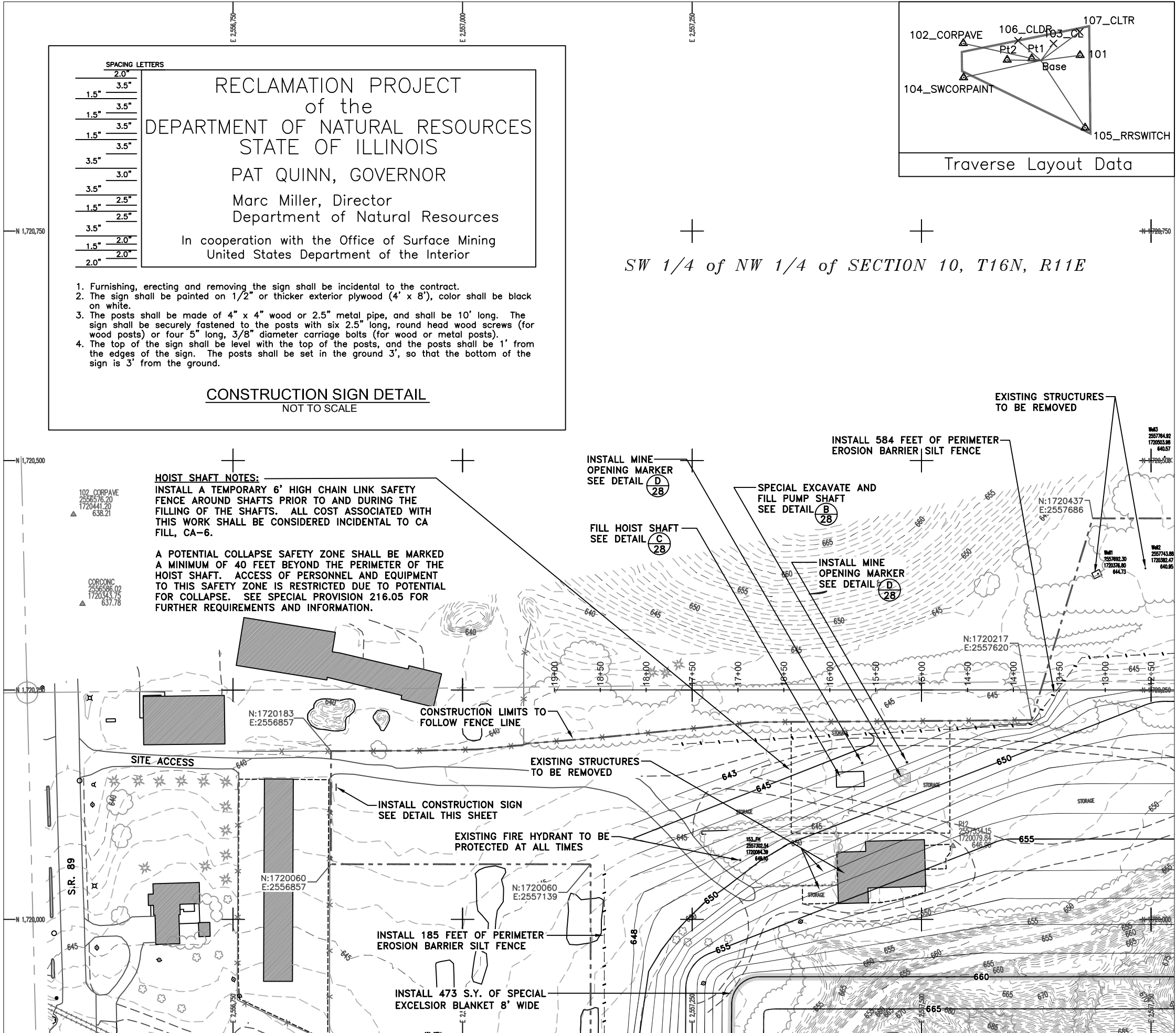
RECLAMATION PROJECT
of the
DEPARTMENT OF NATURAL RESOURCES
STATE OF ILLINOIS
PAT QUINN, GOVERNOR
Marc Miller, Director
Department of Natural Resources
In cooperation with the Office of Surface Mining
United States Department of the Interior

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.
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.

CONSTRUCTION SIGN DETAIL
NOT TO SCALE



SW 1/4 of NW 1/4 of SECTION 10, T16N, R11E



SEE SHEET 4

3	4
5	6

Sheet Layout

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	SURVEY CONTROL POINT
	SPECIAL EXCELSIOR BLANKET
	SILT FENCE

Legend

Illinois Third Vein

SCALE IN FEET

State of Illinois
Department of Natural Resources

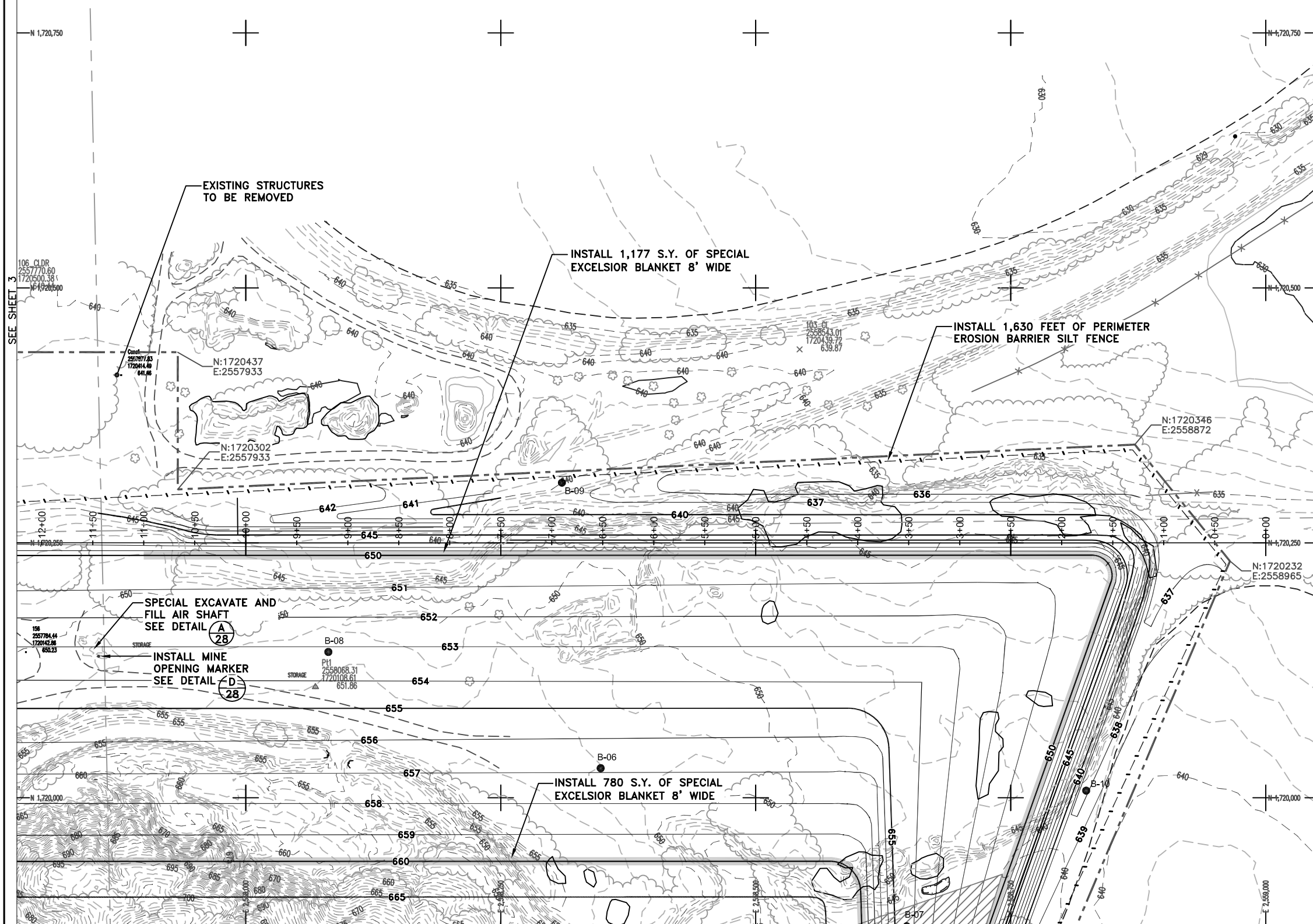
Illinois Third Vein
Reclamation Project
AML-GBuE-1406
Bureau County

Date: 10/16/2014
V.P., M-LF
Drawn By: _____
Checked By: _____

Existing & Proposed
Conditions
Sheet
3 of 28

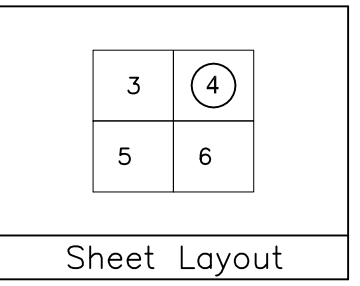
SEE SHEET 5

SE 1/4 of NW 1/4 of SECTION 10, T16N, R11E

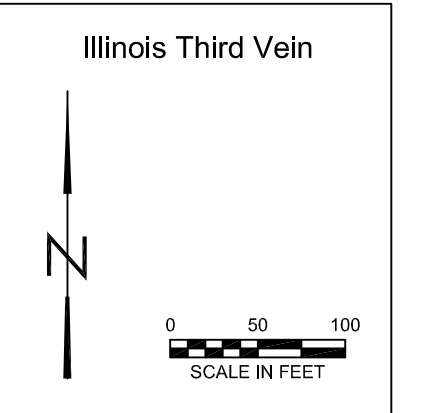


SEE SHEET 3

SEE SHEET 6



- Legend**
- - - 400 - - - EXISTING CONTOUR
 - 400** - - - PROPOSED CONTOUR
 - - - - - CONSTRUCTION LIMITS
 - - - - - EDGE OF ROAD
 - - - - - TREELINE
 - - - - - EDGE OF WATER
 - △ SURVEY CONTROL POINT
 - ▨ SPECIAL EXCELSIOR BLANKET
 - - - - - SILT FENCE
 - ▨ PROPOSED EARTH EXCAVATION FOR SOIL COVER



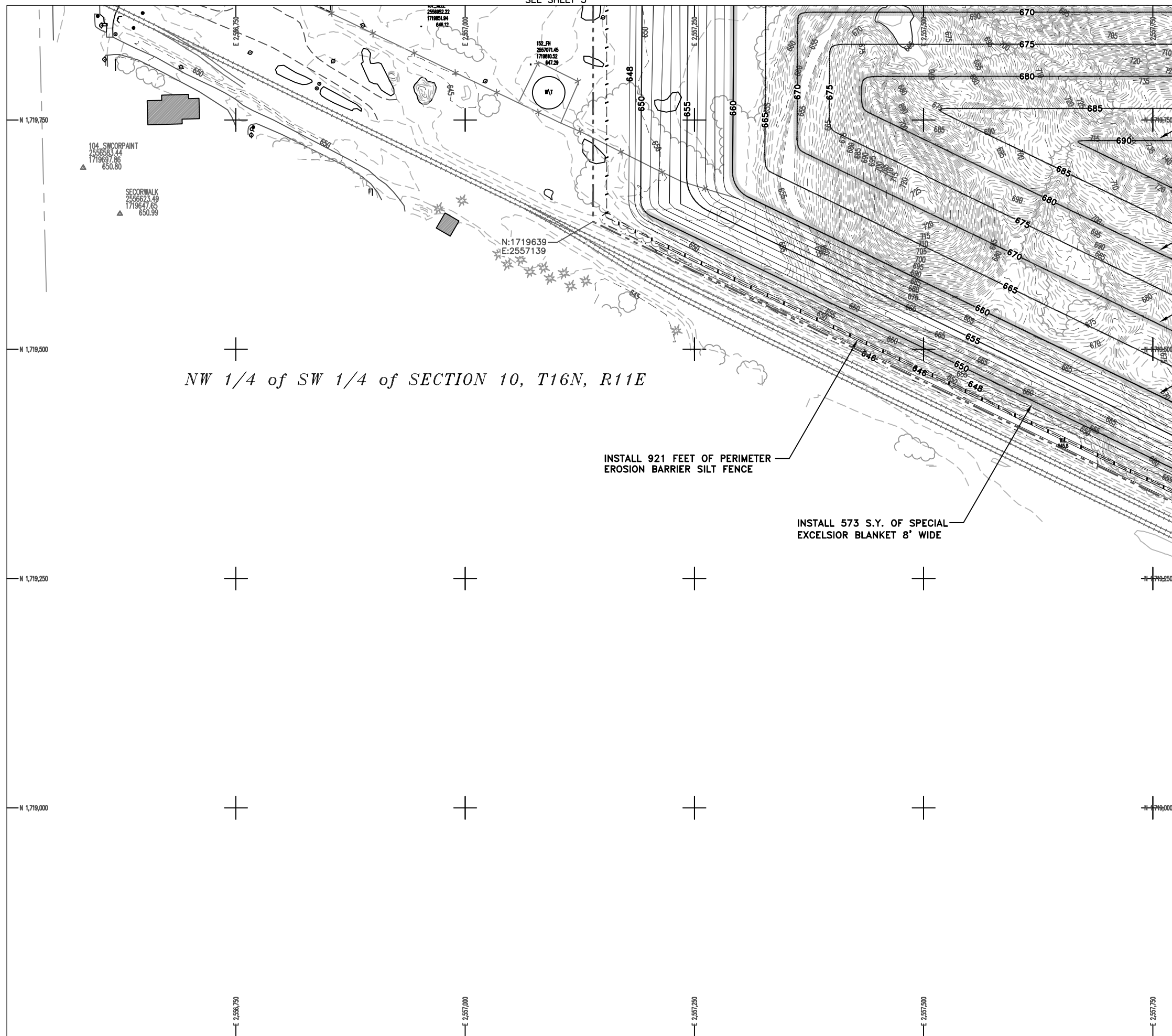
State of Illinois
Department of Natural Resources

Illinois Third Vein
Reclamation Project
AML-GBuE-1406
Bureau County

Drawn By: V.P., M-LF
Checked By: _____
Date: 10/16/2014

Existing & Proposed
Conditions
Sheet
4 of 28

SEE SHEET 3



104 SWCORPAIN
2556583.44
1719697.86
650.80

SECORWALK
2556623.49
1719697.86
650.99

122_FH
2557071.45
1719695.52
647.28

N:1719639
E:2557139

NW 1/4 of SW 1/4 of SECTION 10, T16N, R11E

INSTALL 921 FEET OF PERIMETER
EROSION BARRIER SILT FENCE

INSTALL 573 S.Y. OF SPECIAL
EXCELSIOR BLANKET 8' WIDE

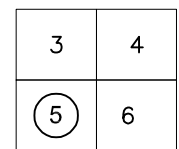
INSTALL 202 S.Y. OF SPECIAL
EXCELSIOR BLANKET 8' WIDE

INSTALL 670 S.Y. OF SPECIAL
EXCELSIOR BLANKET 8' WIDE

INSTALL 903 S.Y. OF SPECIAL
EXCELSIOR BLANKET 8' WIDE

INSTALL 652 S.Y. OF SPECIAL
EXCELSIOR BLANKET 8' WIDE

SEE SHEET 6



Sheet Layout

- 400 --- EXISTING CONTOUR
- 400 — PROPOSED CONTOUR
- --- CONSTRUCTION LIMITS
- --- EDGE OF ROAD
- ~~~~~ TREELINE
- - - - - EDGE OF WATER
- ▲ SURVEY CONTROL POINT
- █ SPECIAL EXCELSIOR BLANKET
- - - - - SILT FENCE

Legend

Illinois Third Vein

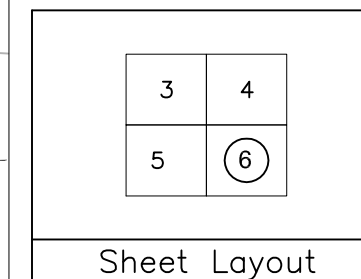
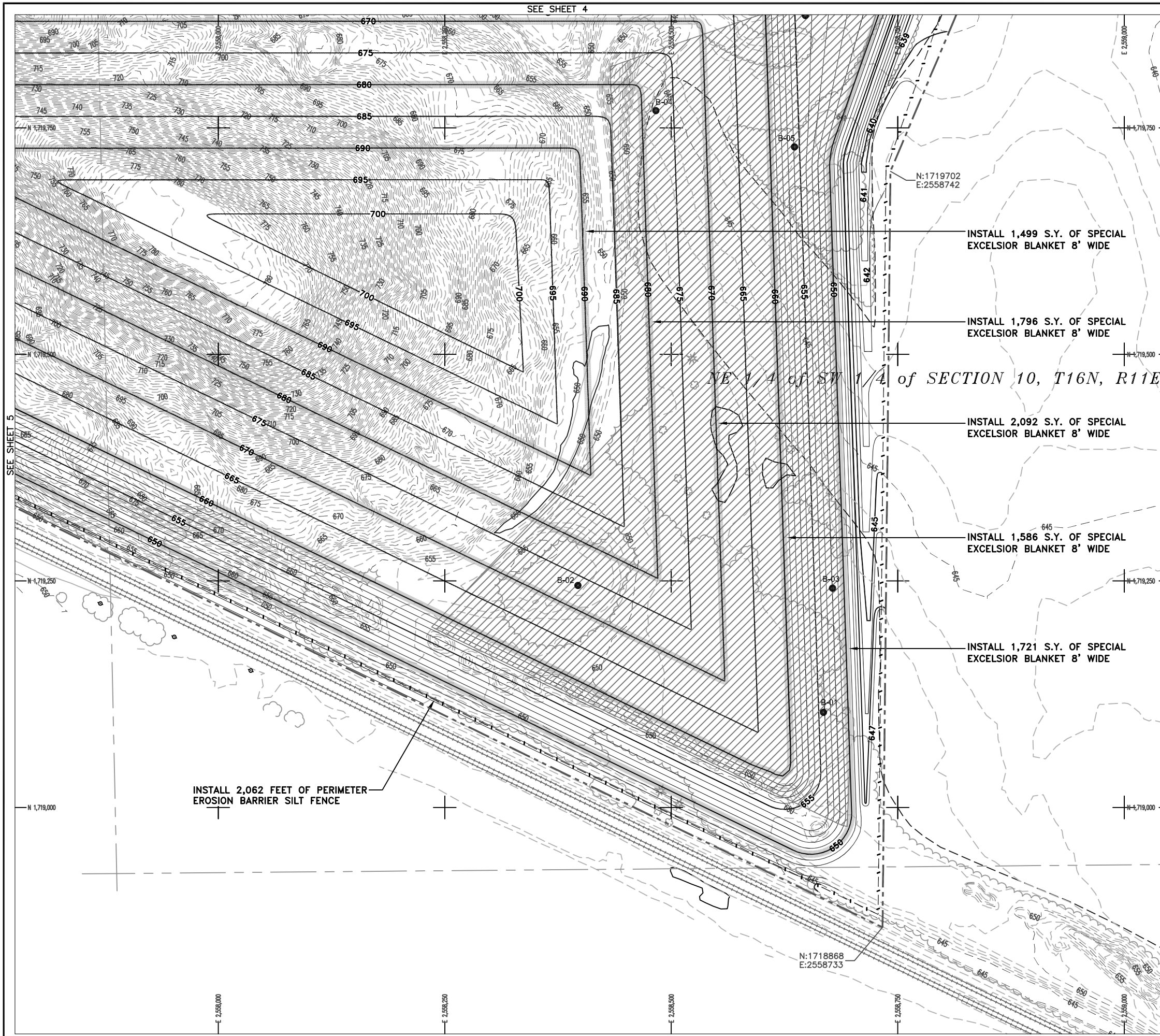


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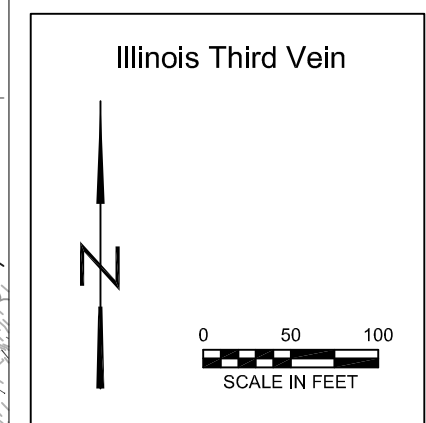
Illinois Third Vein
Reclamation Project
AML-GBuE-1406
Bureau County

Drawn By: V.P., M-LF
Checked By: _____
Date: 10/16/2014

Existing & Proposed
Conditions
Sheet
5 of 28



- Legend**
- 400 --- EXISTING CONTOUR
 - 400 — PROPOSED CONTOUR
 - CONSTRUCTION LIMITS
 - EDGE OF ROAD
 - TREELINE
 - EDGE OF WATER
 - Δ SURVEY CONTROL POINT
 - SPECIAL EXCELSIOR BLANKET
 - SILT FENCE
 - PROPOSED EARTH EXCAVATION FOR SOIL COVER



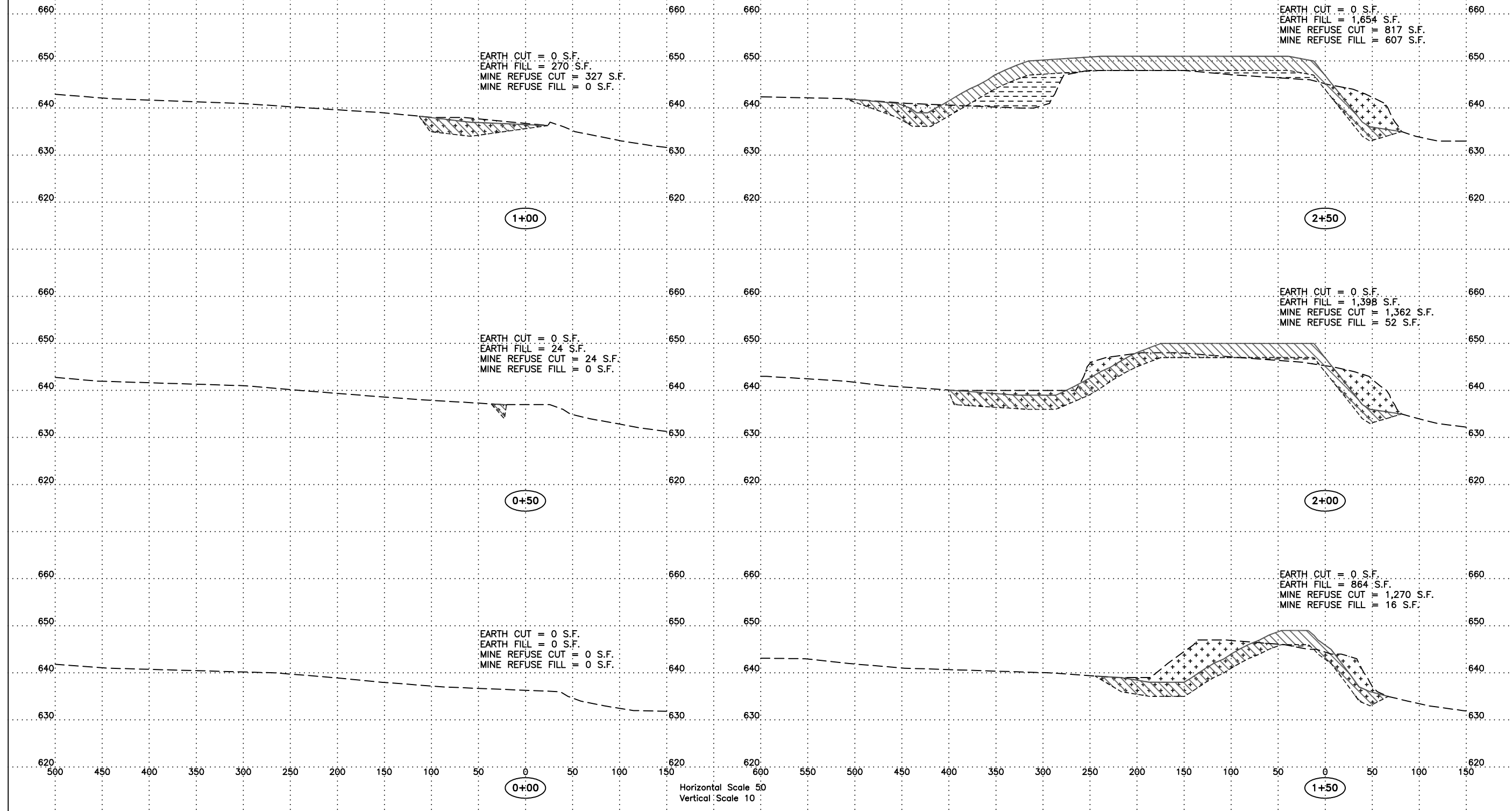
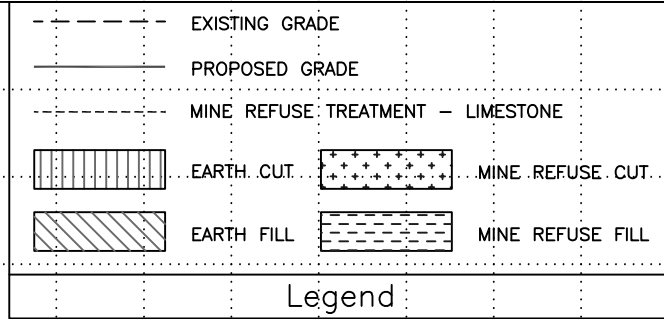
State of Illinois
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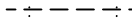


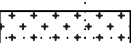

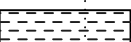
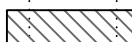
Drawn By: V.P., M-LF
Checked By: _____
Date: 10/16/2014

Existing & Proposed
Conditions
Sheet
6 of 28

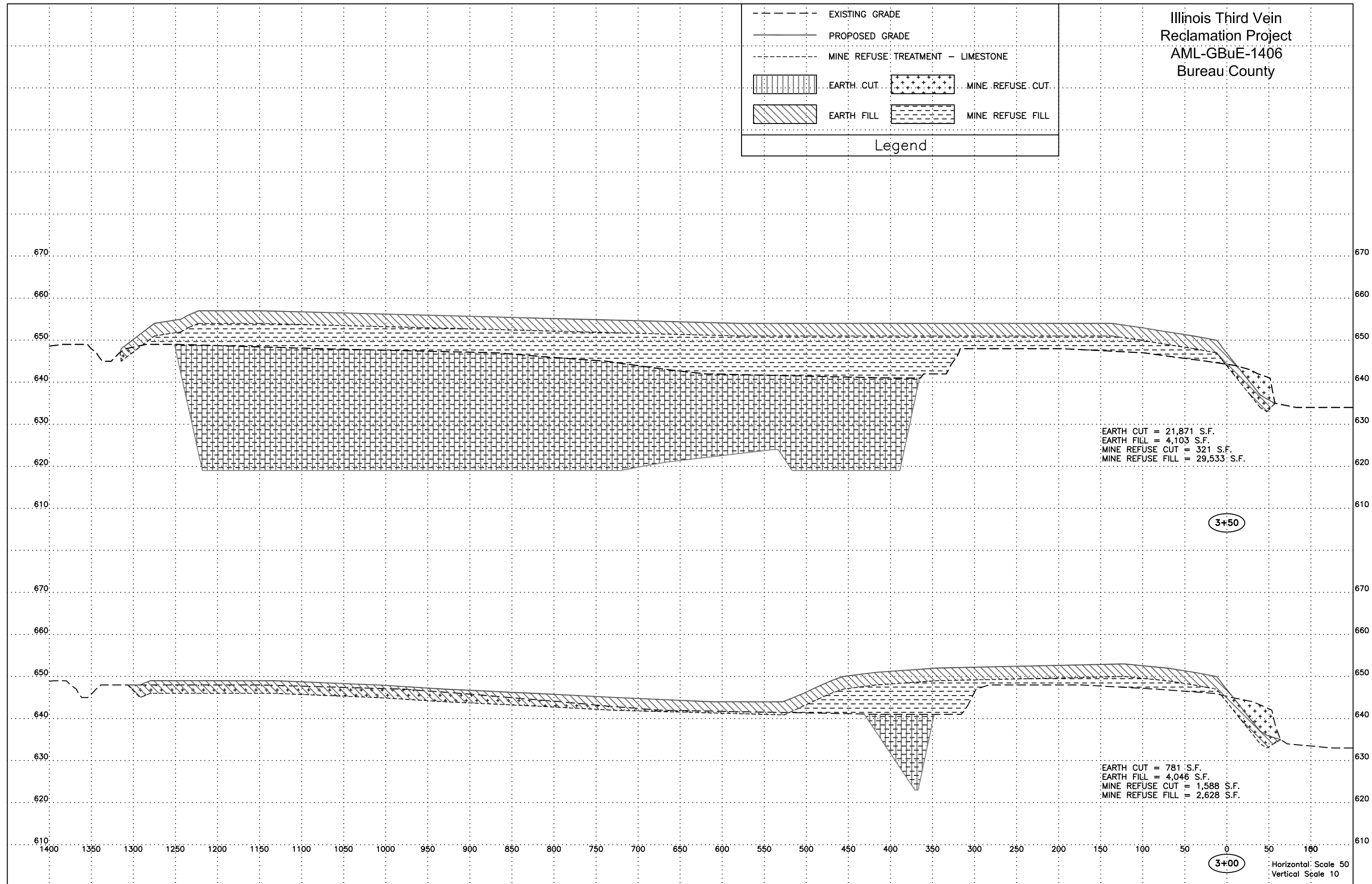
Illinois Third Vein
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AML-GBuE-1406
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Illinois Third Vein
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AML-GBuE-1406
Bureau County

	EXISTING GRADE		MINE REFUSE TREATMENT - LIMESTONE
	PROPOSED GRADE		MINE REFUSE CUT.
	EARTH CUT.		MINE REFUSE FILL
	EARTH FILL		

Legend



EARTH CUT = 21,871 S.F.
EARTH FILL = 4,103 S.F.
MINE REFUSE CUT = 321 S.F.
MINE REFUSE FILL = 29,533 S.F.

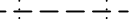
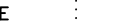


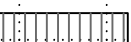
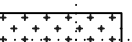

3+50

EARTH CUT = 781 S.F.
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MINE REFUSE FILL = 2,628 S.F.

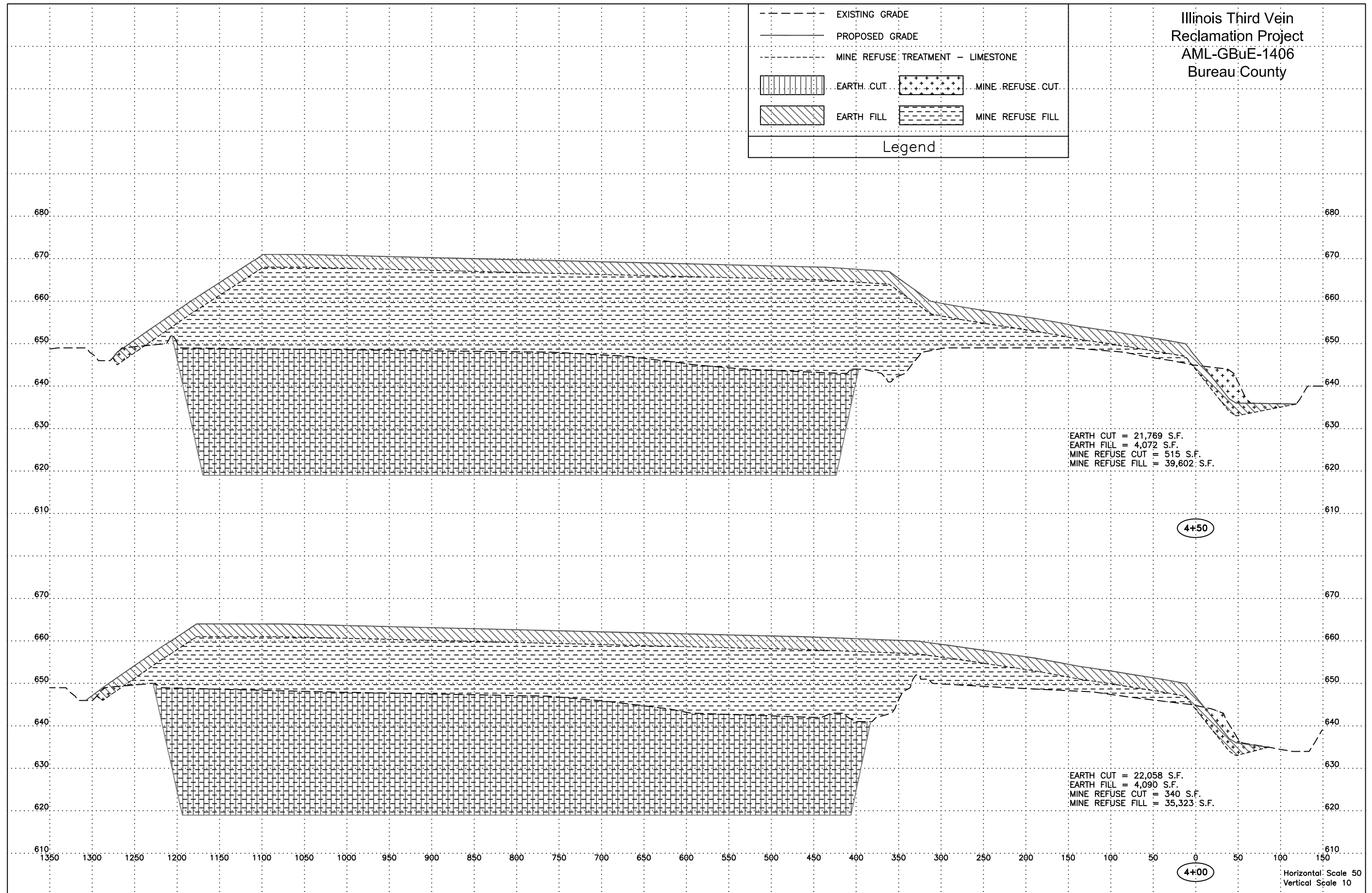
3+00

Horizontal Scale 50
Vertical Scale 10

Illinois Third Vein
Reclamation Project
AML-GBuE-1406
Bureau County

	EXISTING GRADE		MINE REFUSE TREATMENT - LIMESTONE
	PROPOSED GRADE		MINE REFUSE CUT.
	EARTH CUT.		MINE REFUSE FILL
	EARTH FILL		

Legend

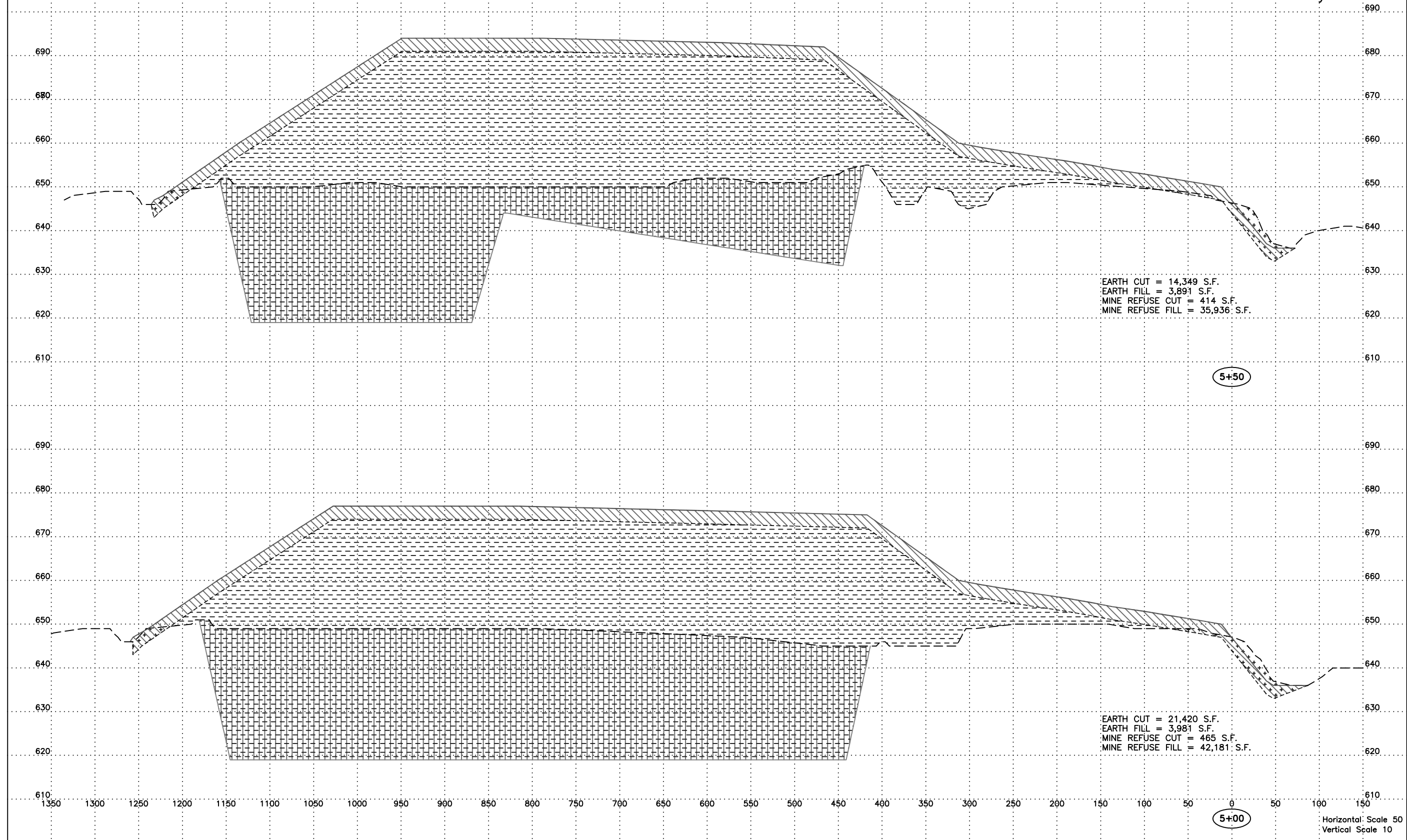


4+50

4+00

Horizontal Scale 50
Vertical Scale 10

Illinois Third Vein
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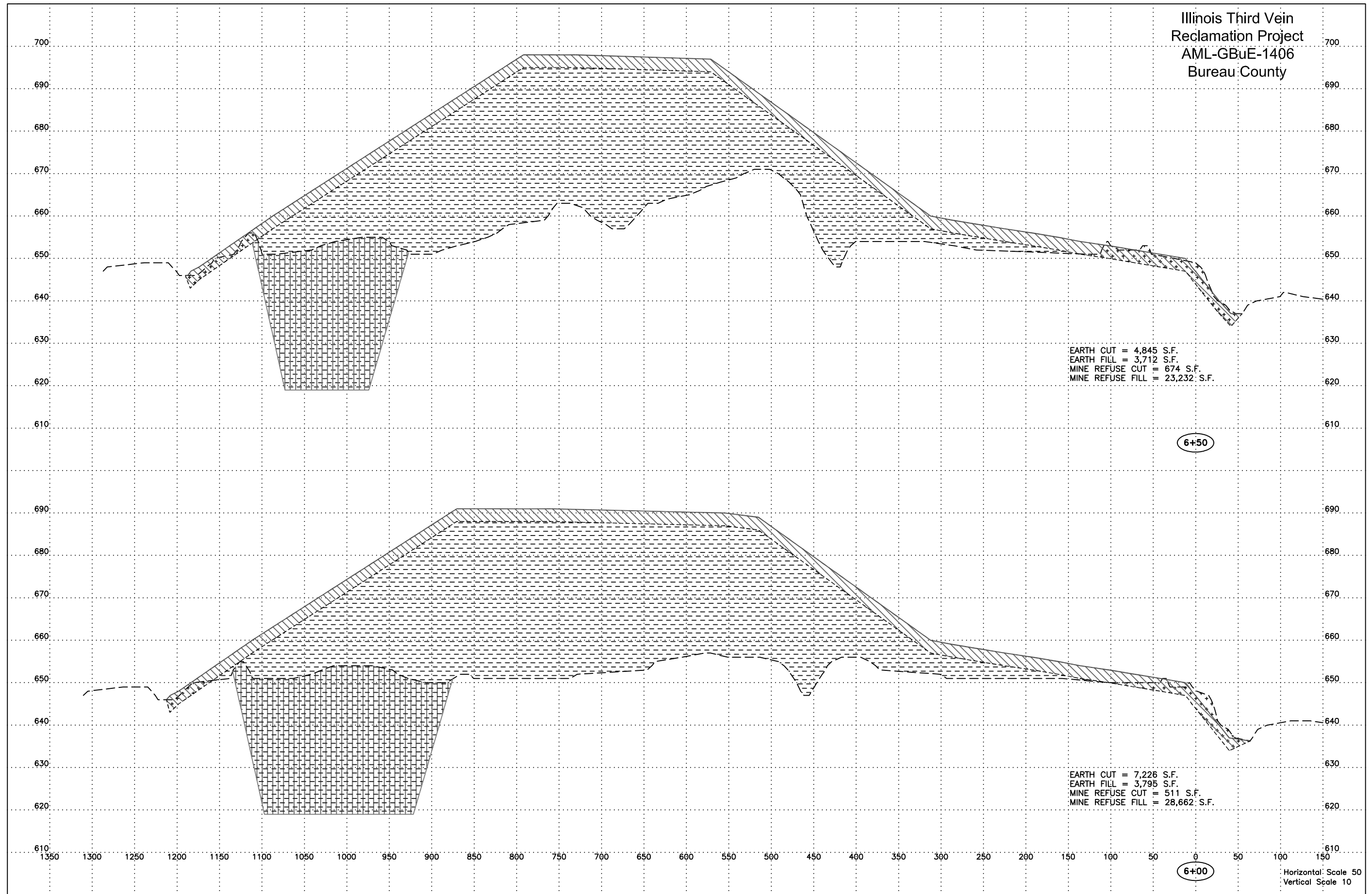


5+50

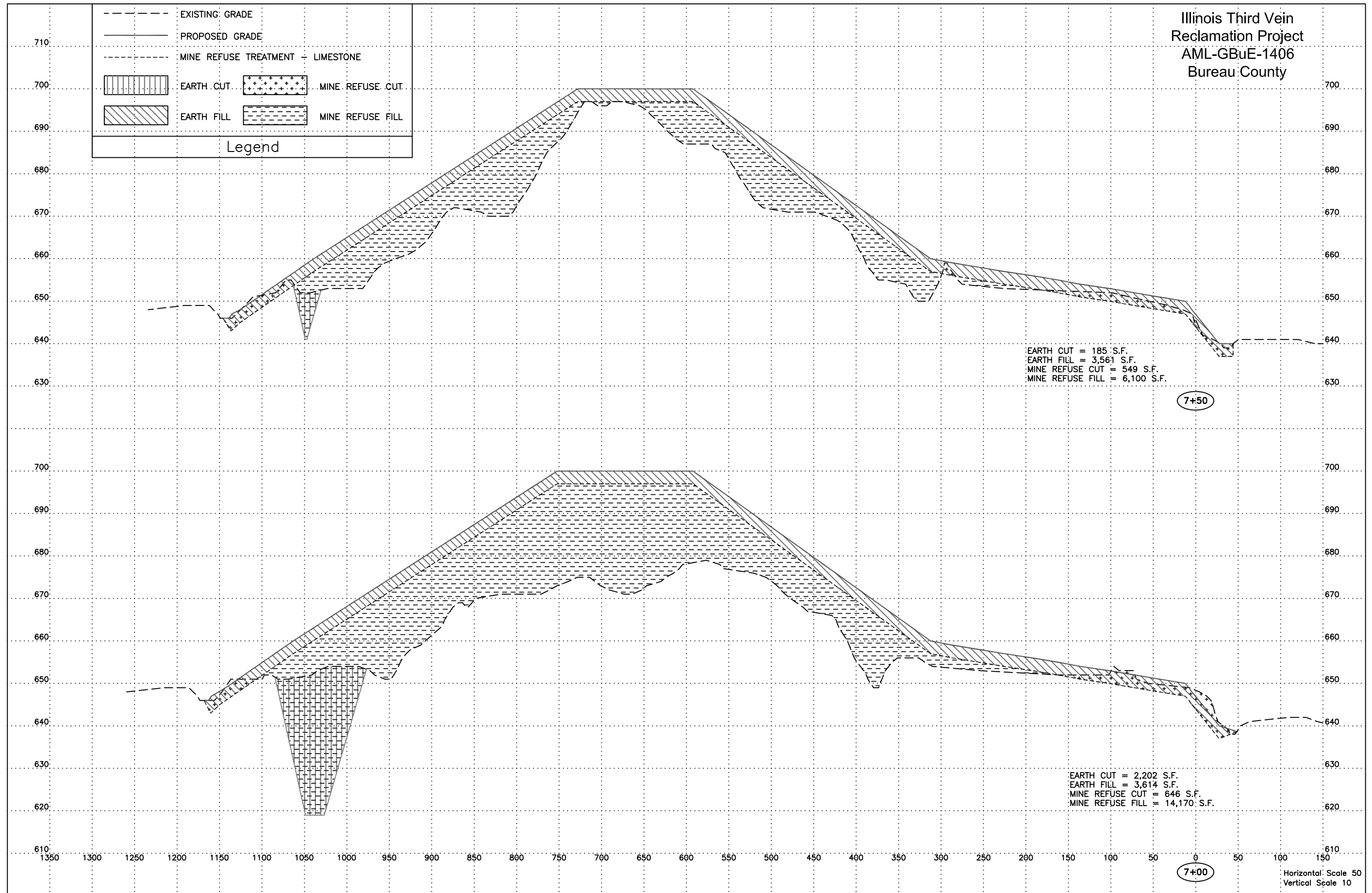
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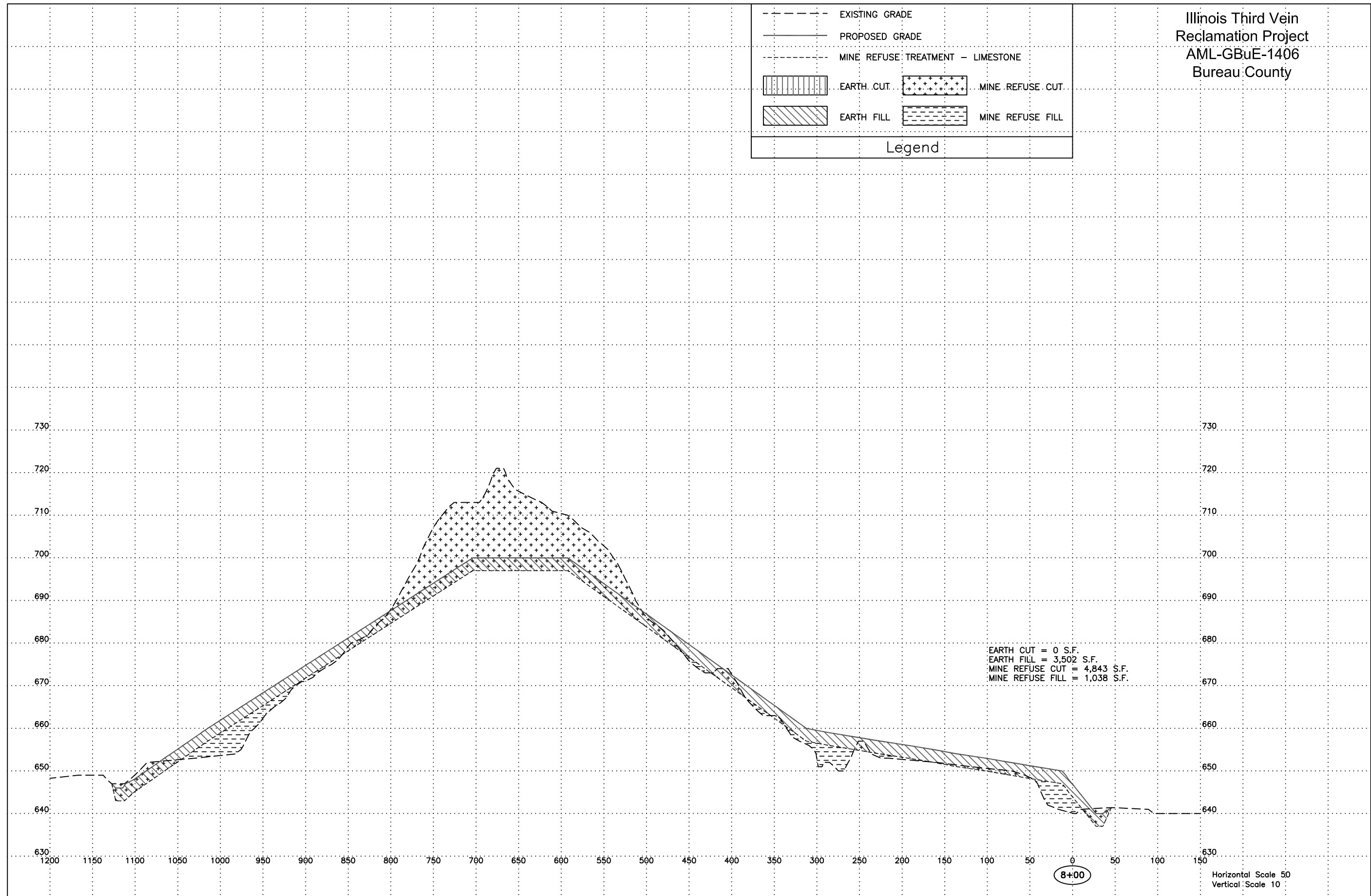
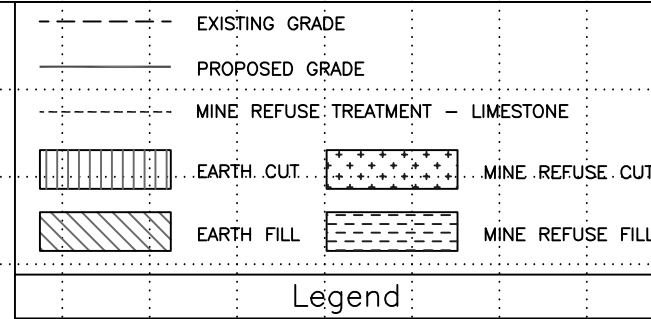
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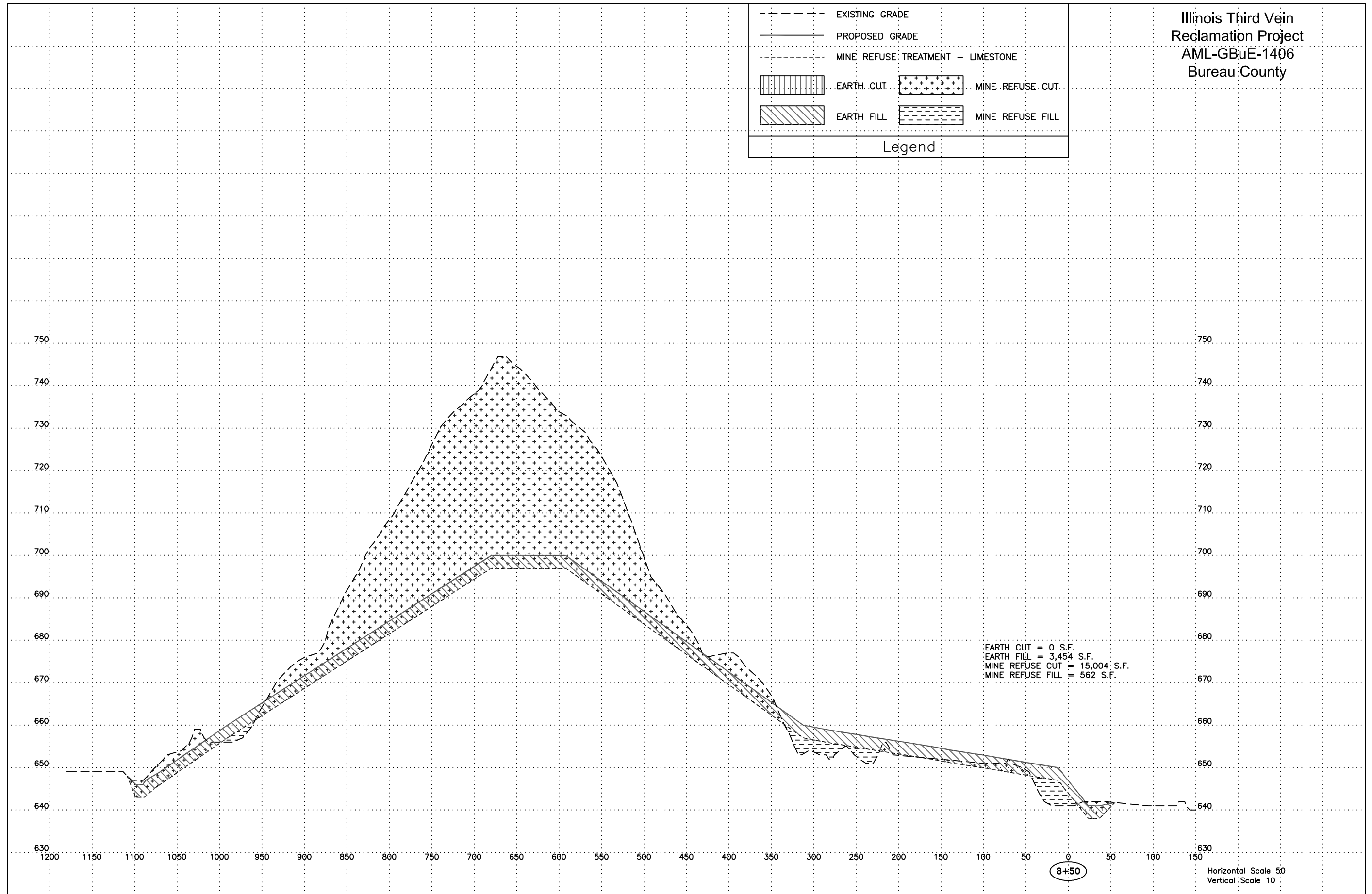
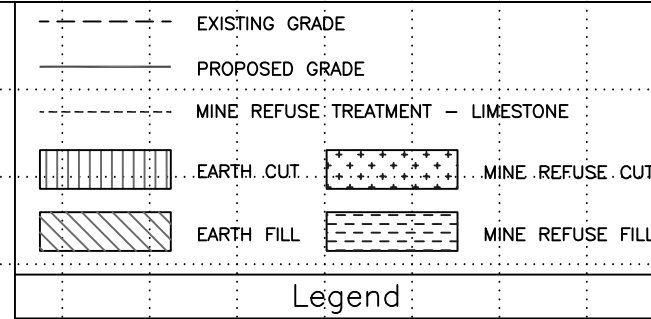


EARTH CUT = 0 S.F.
 EARTH FILL = 3,502 S.F.
 MINE REFUSE CUT = 4,843 S.F.
 MINE REFUSE FILL = 1,038 S.F.

8+00

Horizontal Scale 50
Vertical Scale 10

Illinois Third Vein
Reclamation Project
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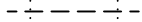




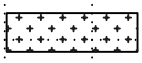
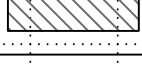


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 MINE REFUSE FILL = 562 S.F.

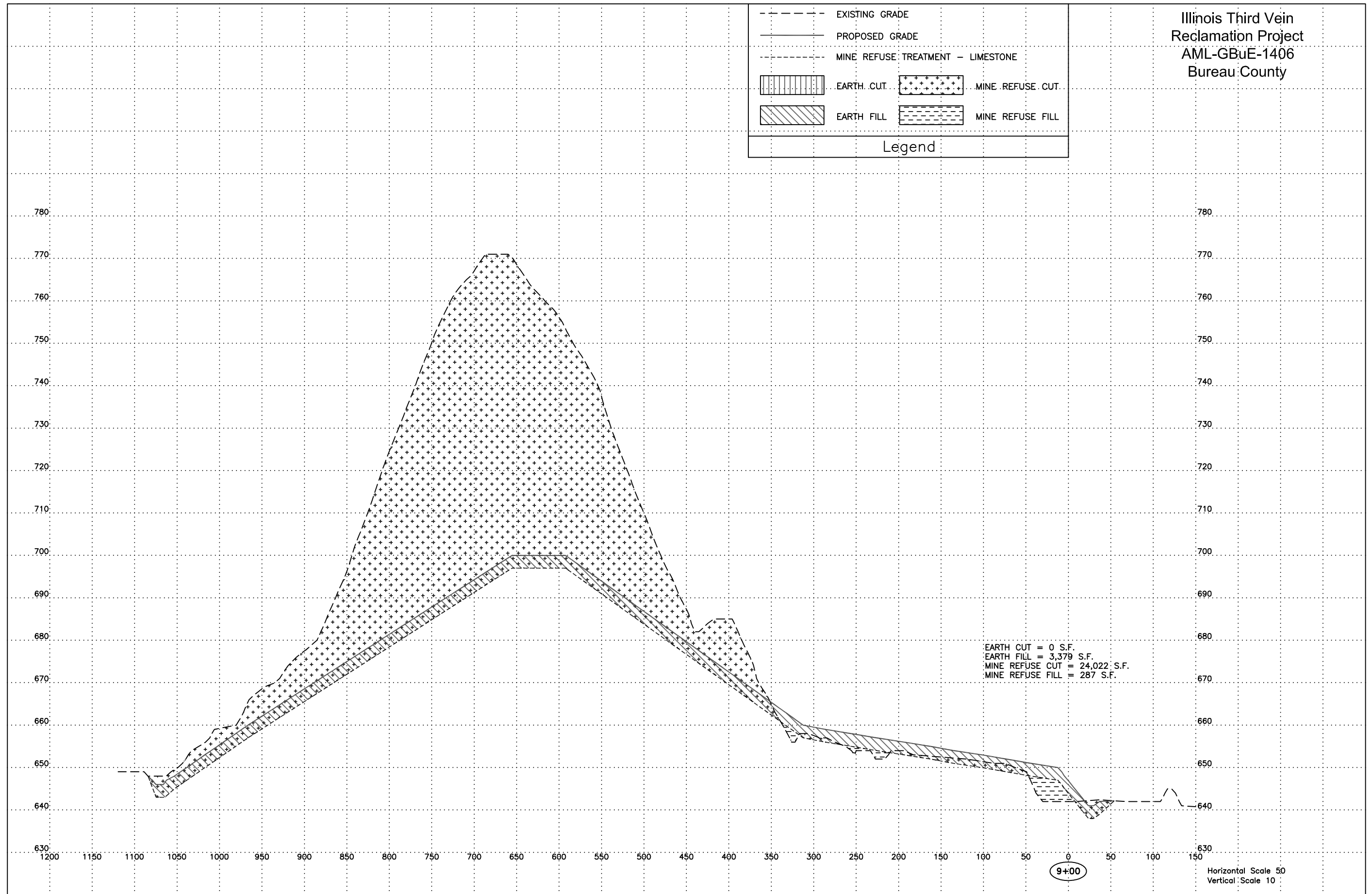
8+50

Horizontal Scale 50
Vertical Scale 10

Illinois Third Vein
 Reclamation Project
 AML-GBuE-1406
 Bureau County

	EXISTING GRADE		MINE REFUSE TREATMENT - LIMESTONE
	PROPOSED GRADE		MINE REFUSE CUT
	EARTH CUT		MINE REFUSE FILL
	EARTH FILL		

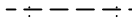


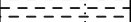



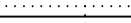
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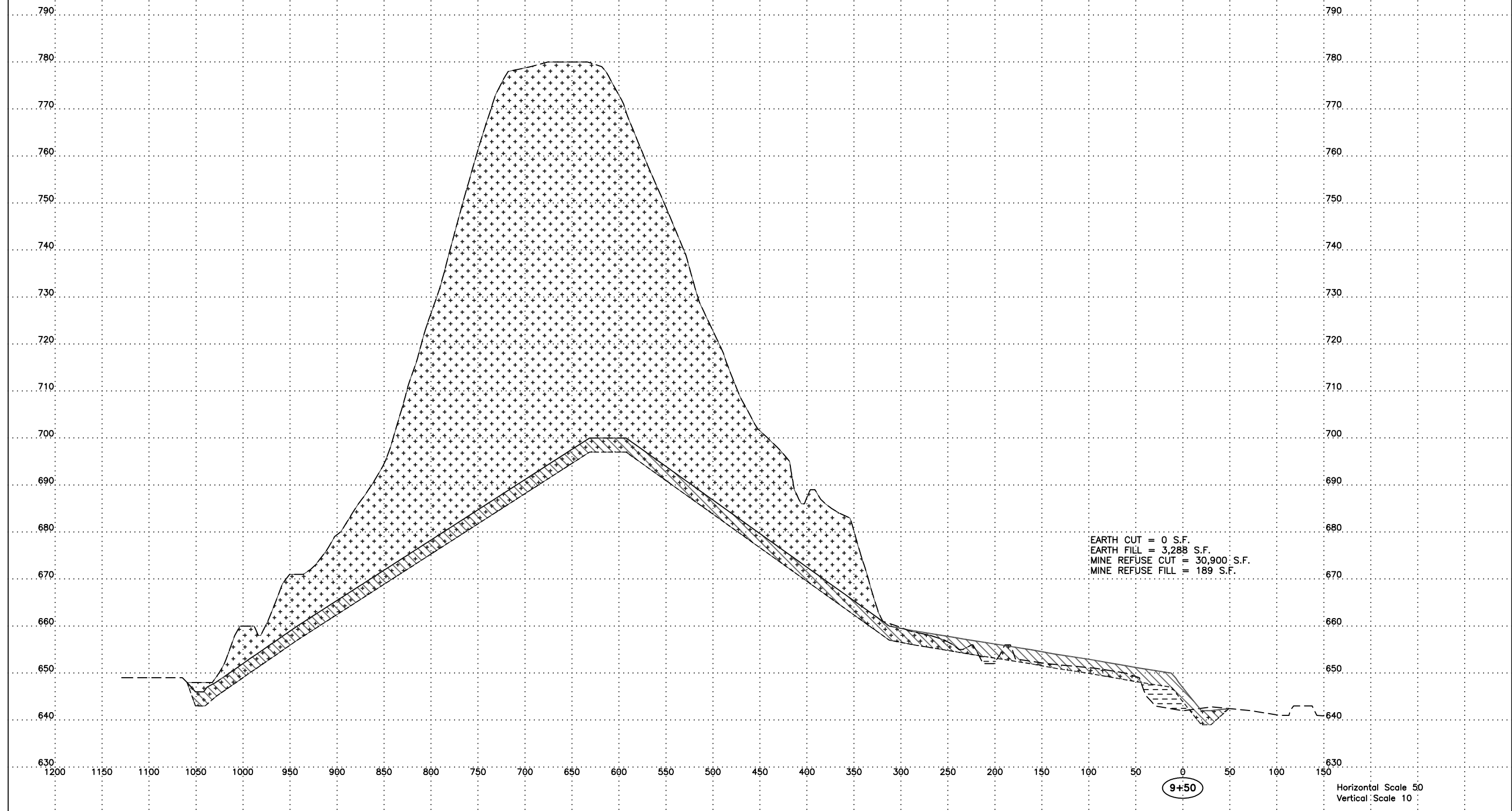
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 MINE REFUSE FILL = 287 S.F.

Horizontal Scale 50
 Vertical Scale 10

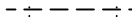








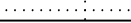
Illinois Third Vein
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	EXISTING GRADE		MINE REFUSE CUT
	PROPOSED GRADE		MINE REFUSE FILL
	MINE REFUSE TREATMENT - LIMESTONE		EARTH CUT
	EARTH FILL		MINE REFUSE FILL

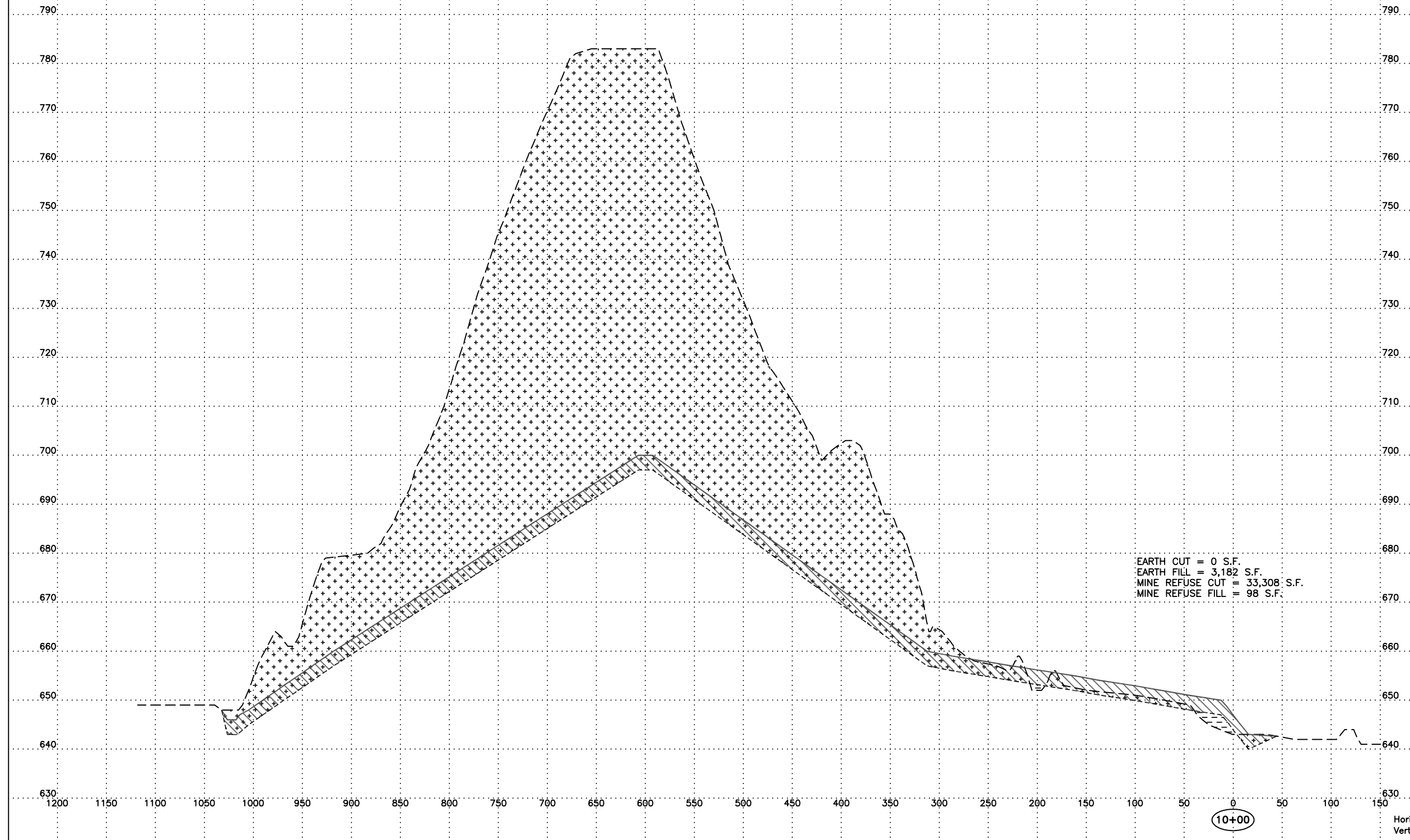
Legend



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	EXISTING GRADE		MINE REFUSE CUT
	PROPOSED GRADE		MINE REFUSE FILL
	MINE REFUSE TREATMENT - LIMESTONE		EARTH CUT
	EARTH CUT		MINE REFUSE FILL
	EARTH FILL		MINE REFUSE CUT

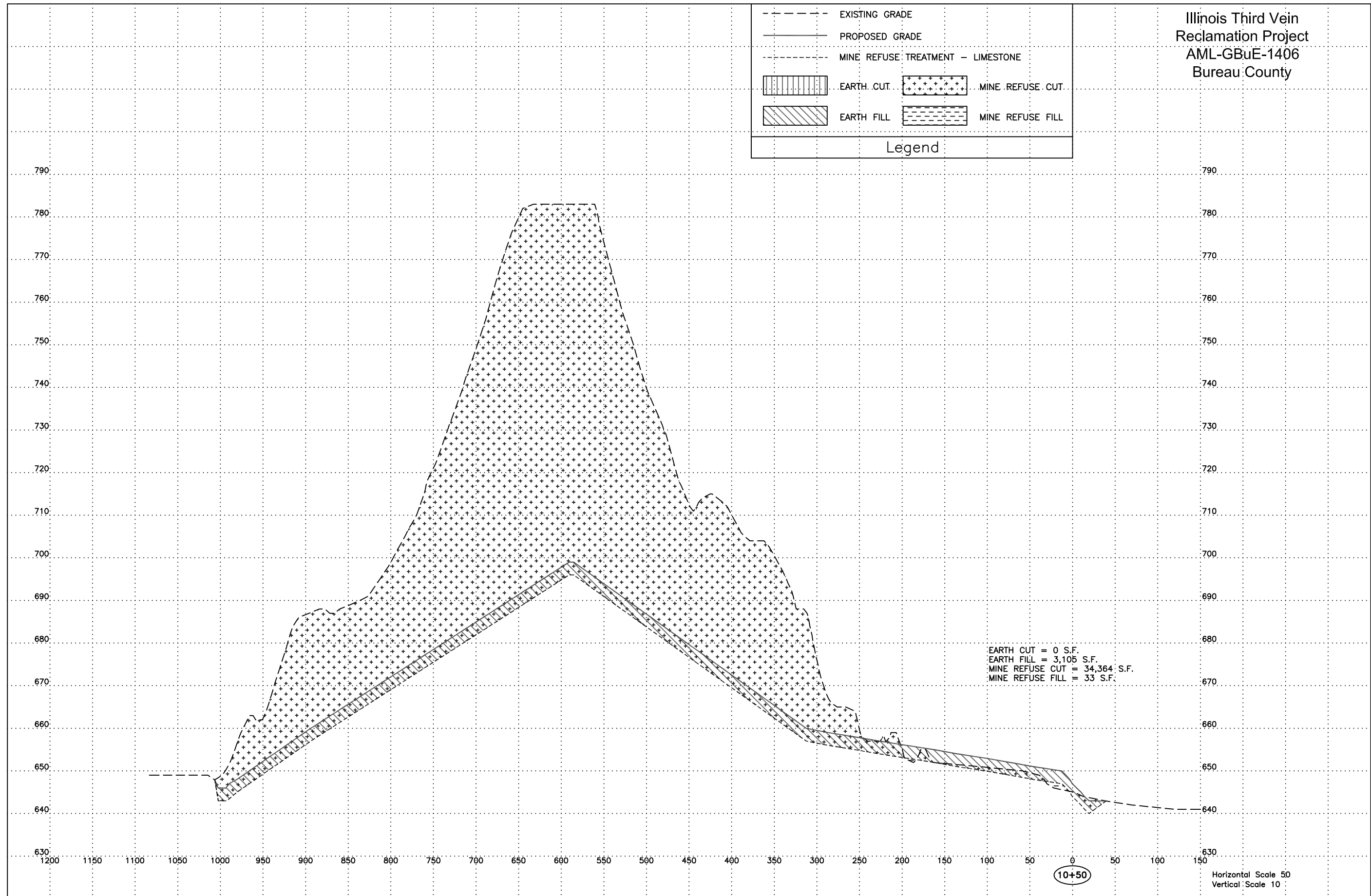
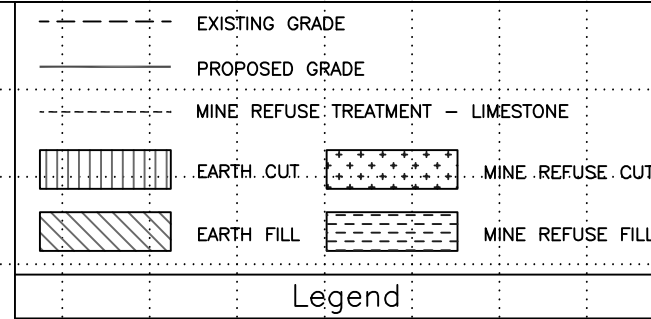
Legend



EARTH CUT = 0 S.F.
 EARTH FILL = 3,182 S.F.
 MINE REFUSE CUT = 33,308 S.F.
 MINE REFUSE FILL = 98 S.F.

Horizontal Scale 50
 Vertical Scale 10

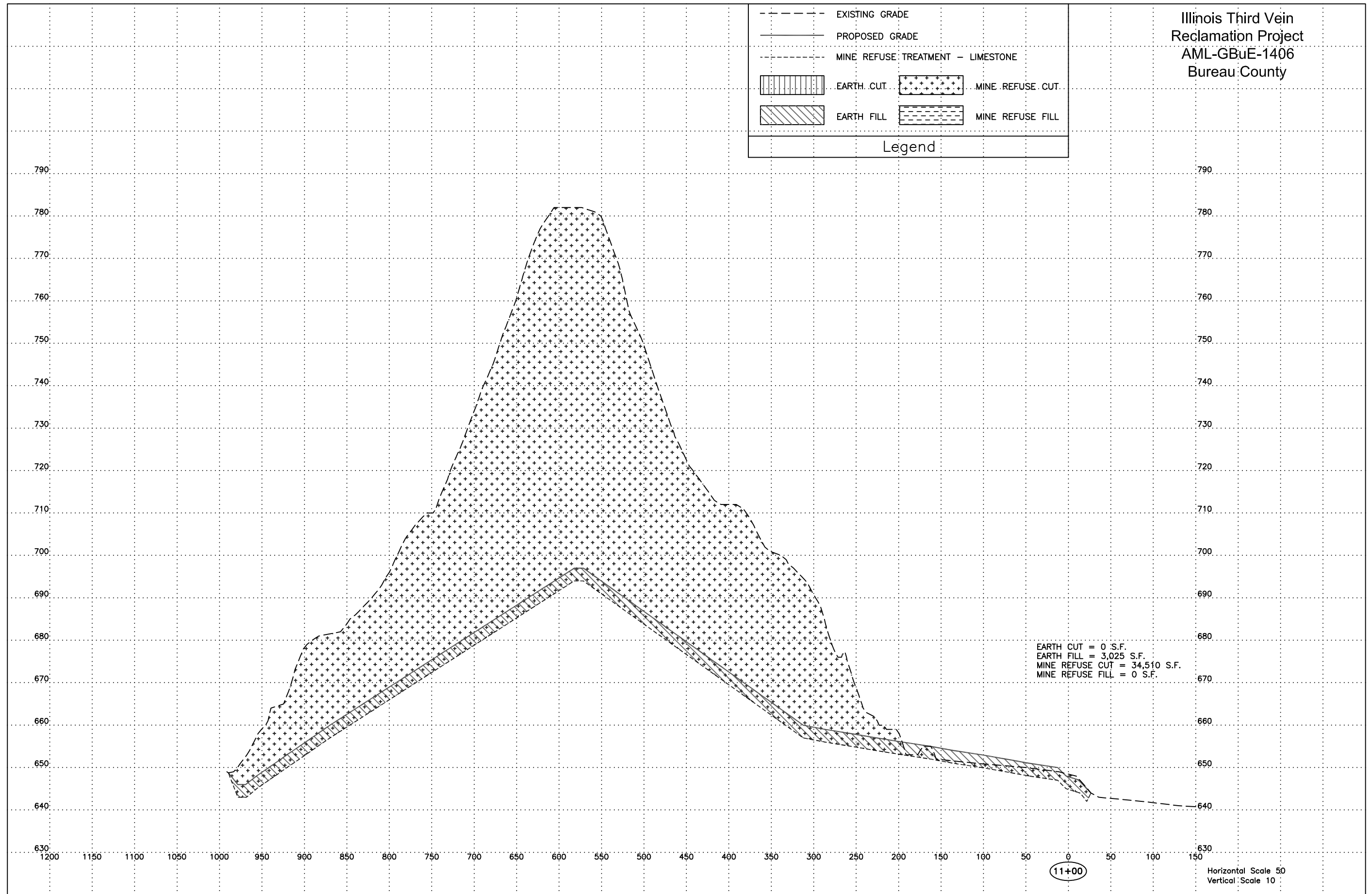
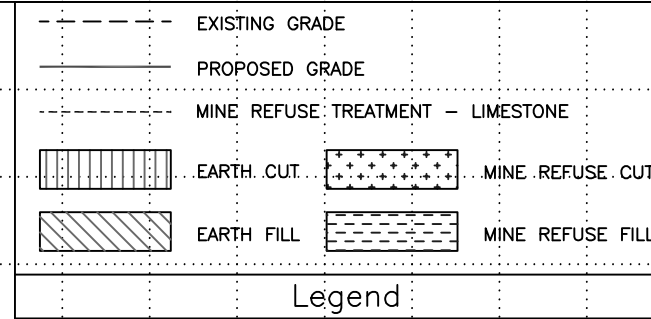
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EARTH CUT = 0 S.F.
 EARTH FILL = 3,105 S.F.
 MINE REFUSE CUT = 34,364 S.F.
 MINE REFUSE FILL = 33 S.F.

Horizontal Scale 50
 Vertical Scale 10

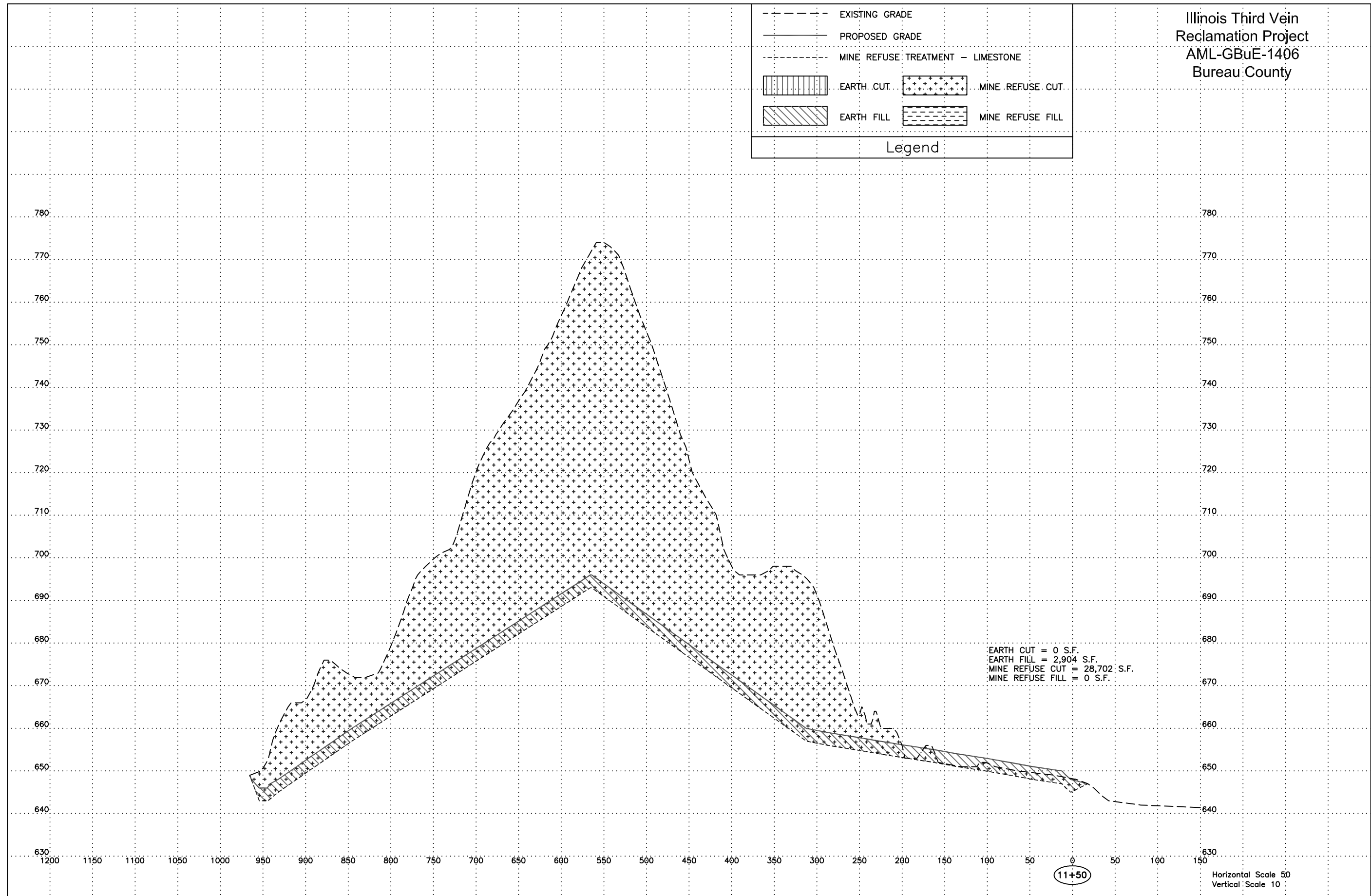
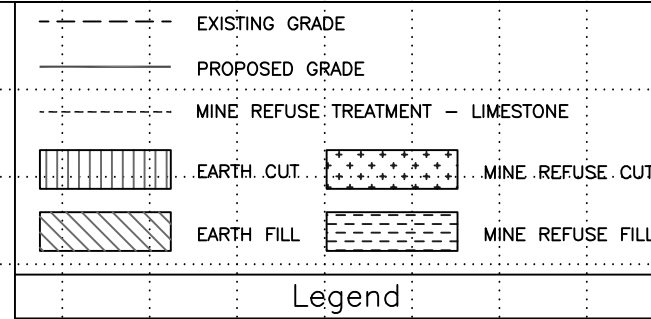
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11+00

Horizontal Scale 50
Vertical Scale 10

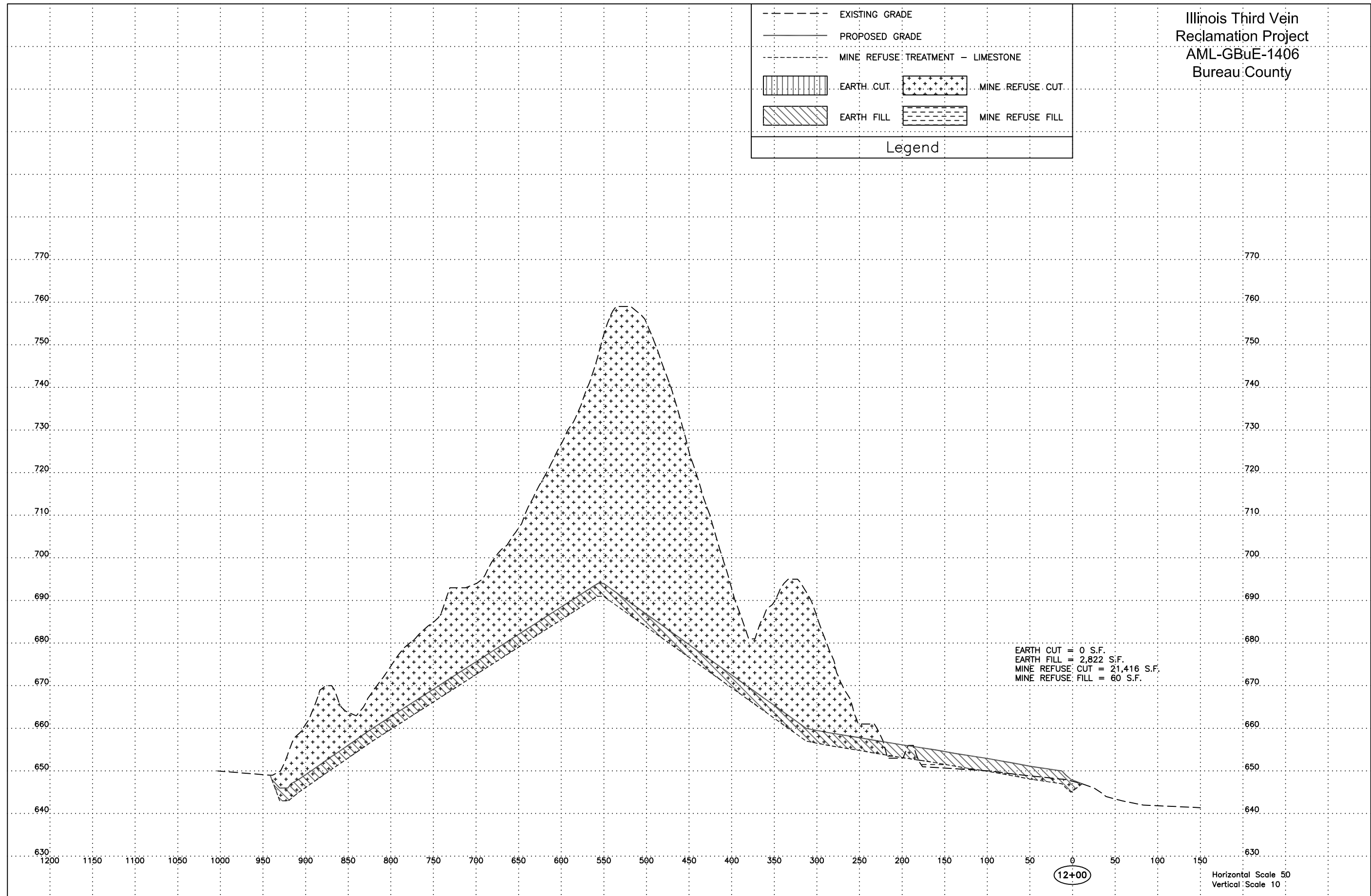
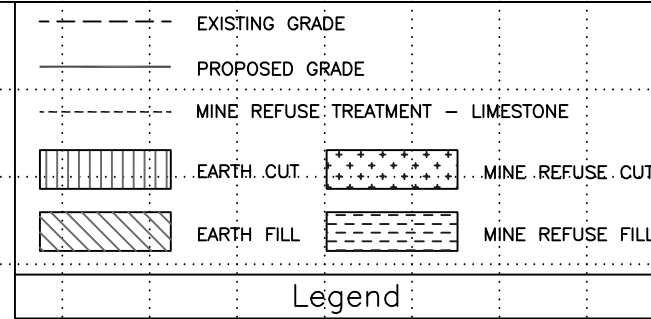
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EARTH CUT = 0 S.F.
 EARTH FILL = 2,904 S.F.
 MINE REFUSE CUT = 28,702 S.F.
 MINE REFUSE FILL = 0 S.F.

Horizontal Scale 50
 Vertical Scale 10

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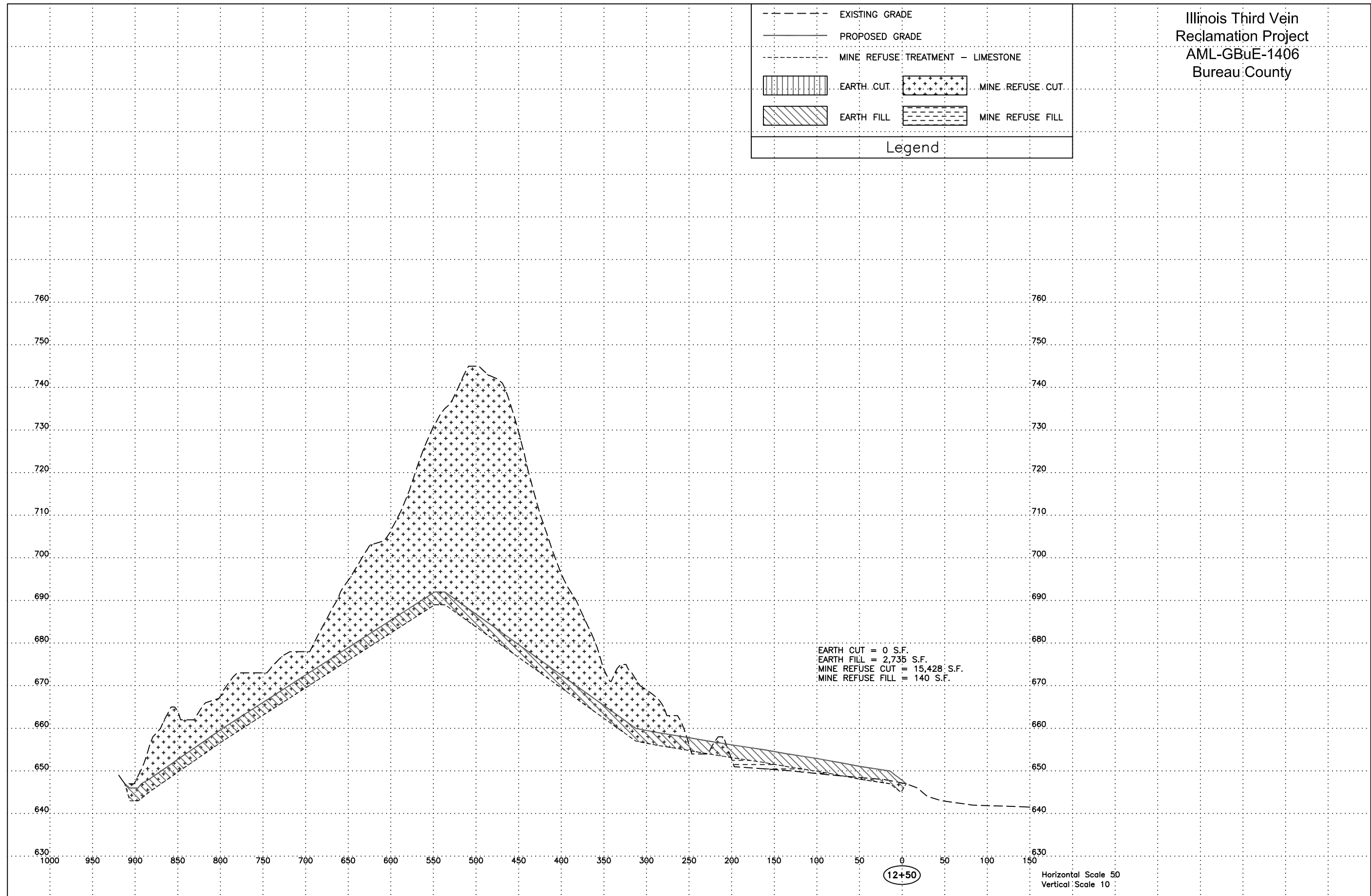
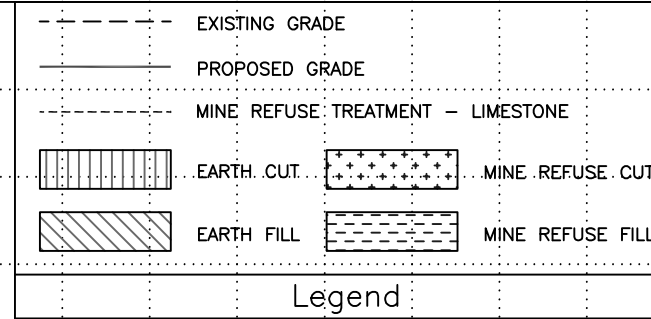


EARTH CUT = 0 S.F.
 EARTH FILL = 2,822 S.F.
 MINE REFUSE CUT = 21,416 S.F.
 MINE REFUSE FILL = 60 S.F.

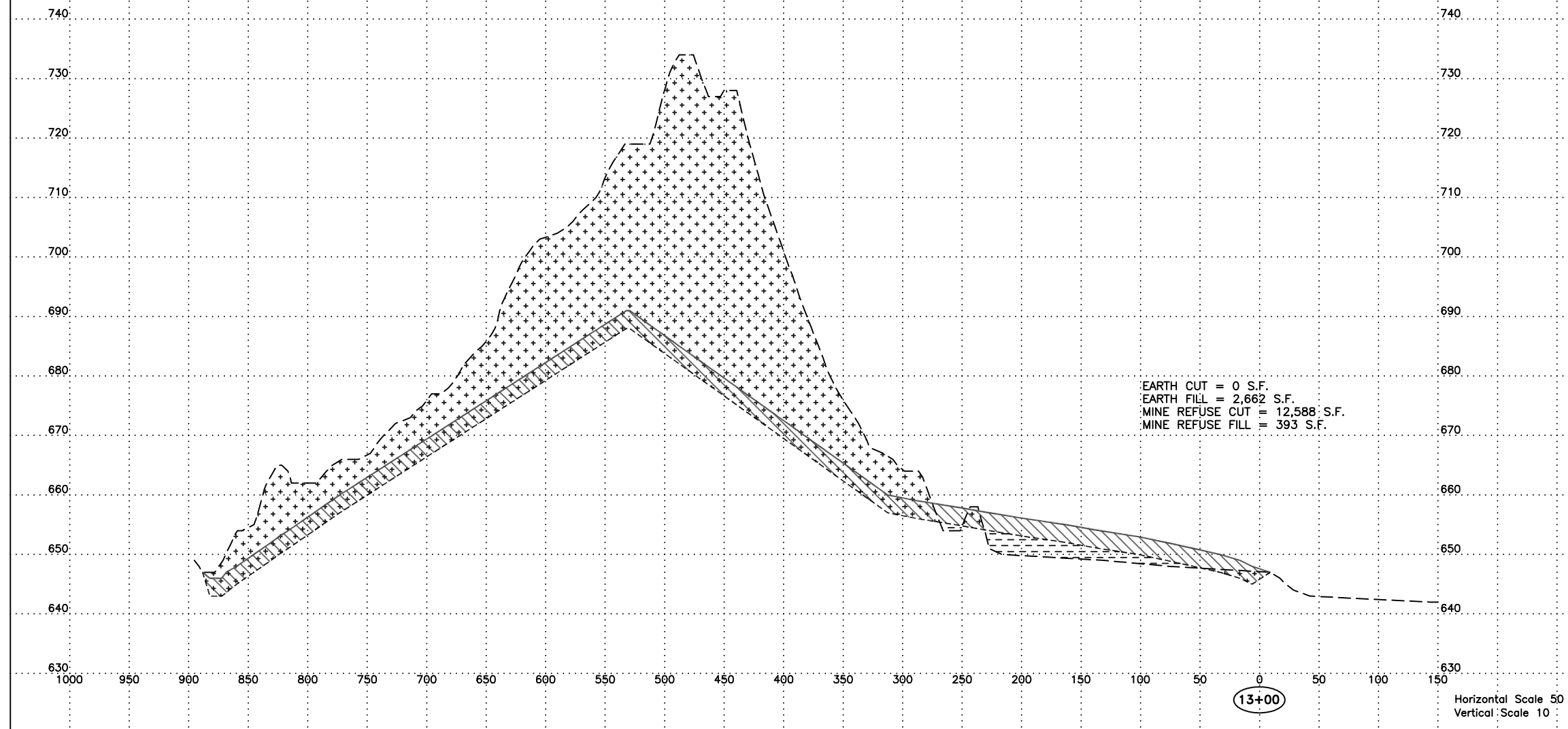
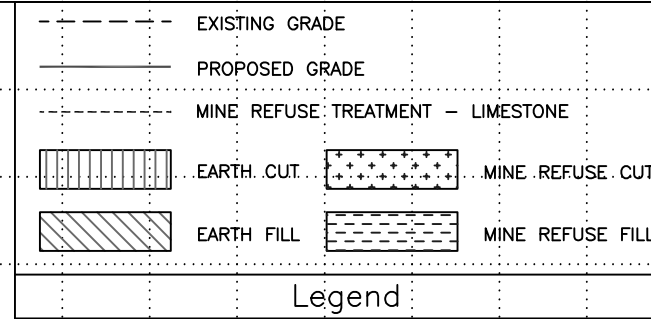
(12+00)

Horizontal Scale 50
 Vertical Scale 10

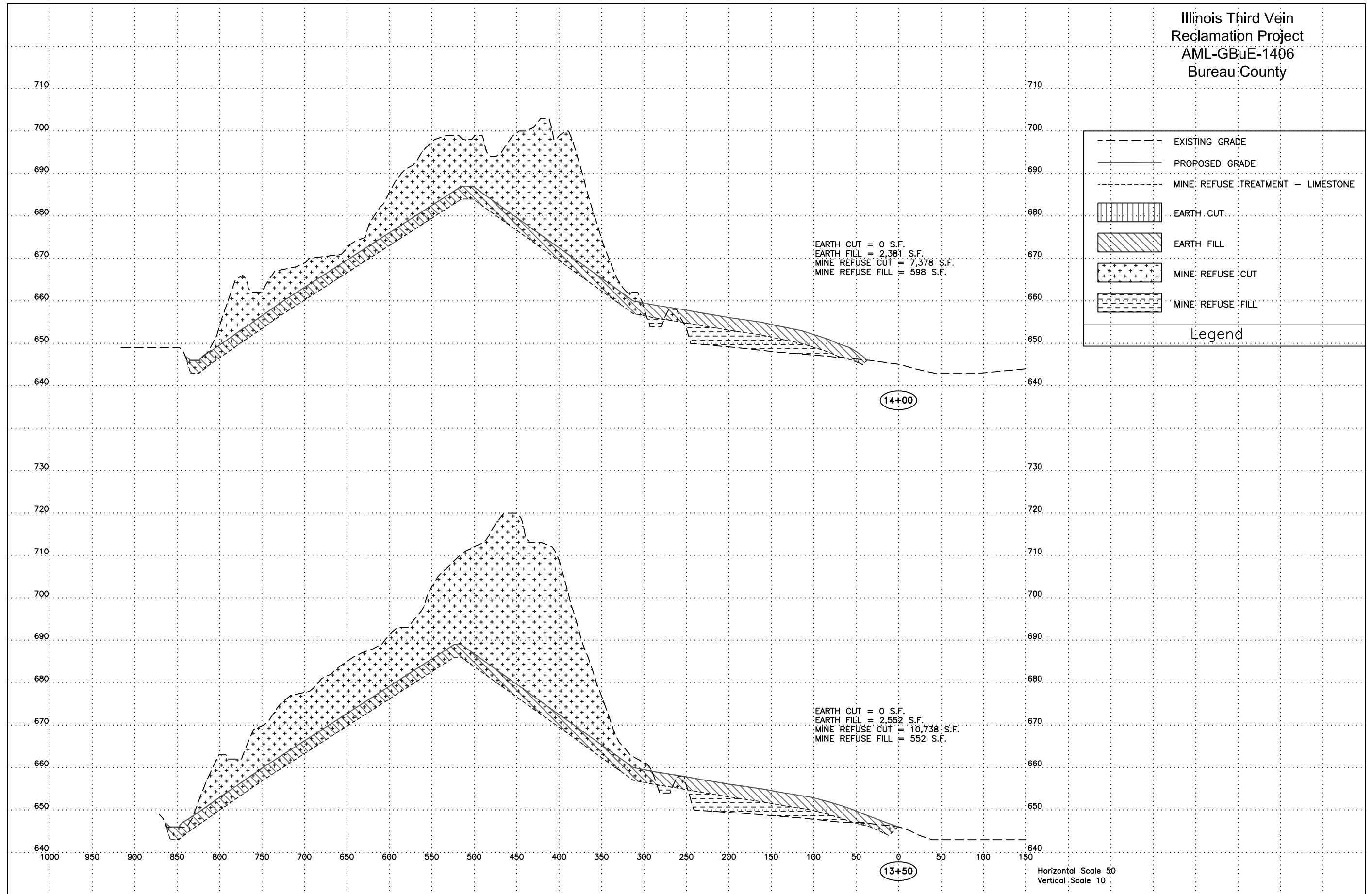
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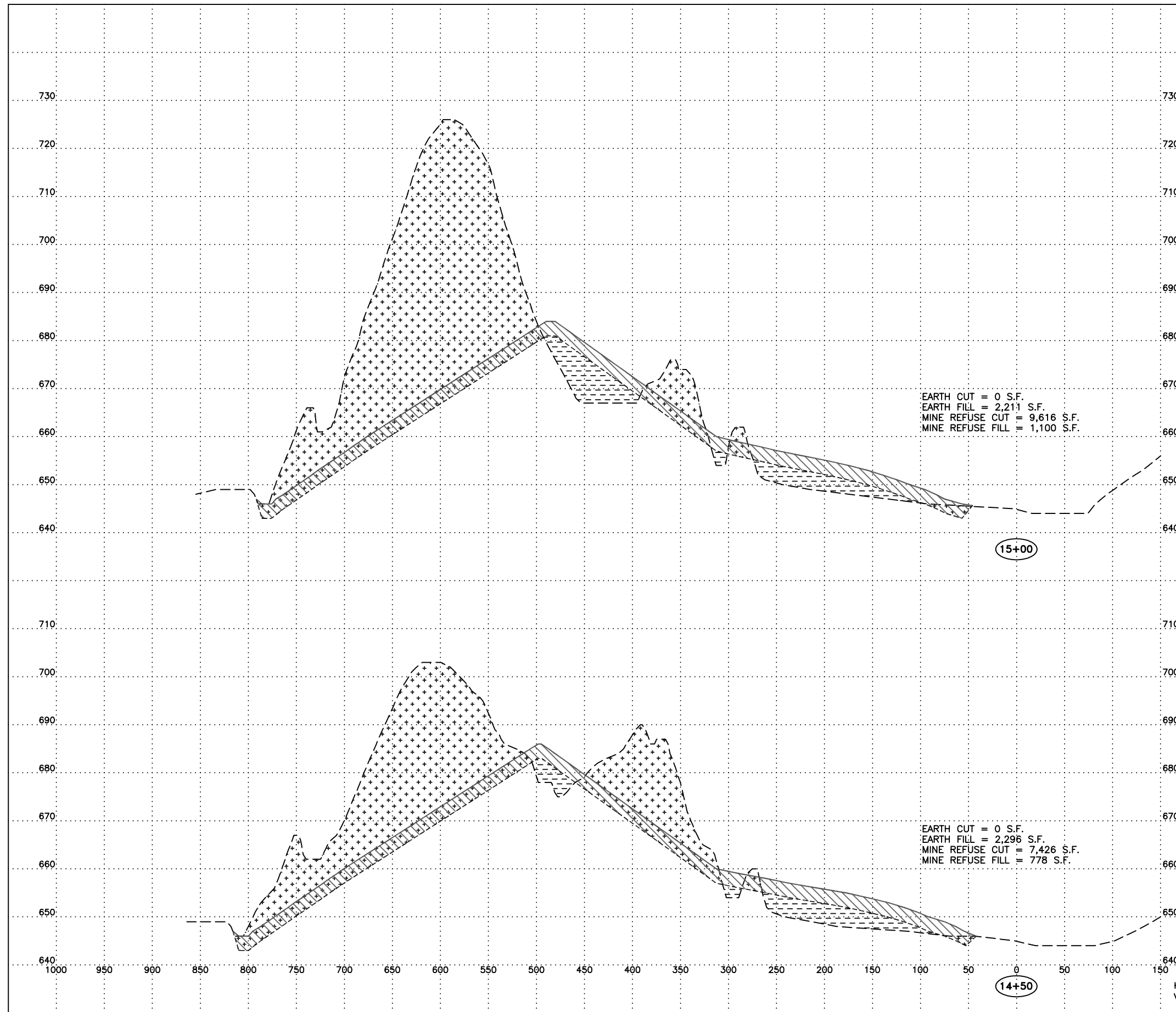
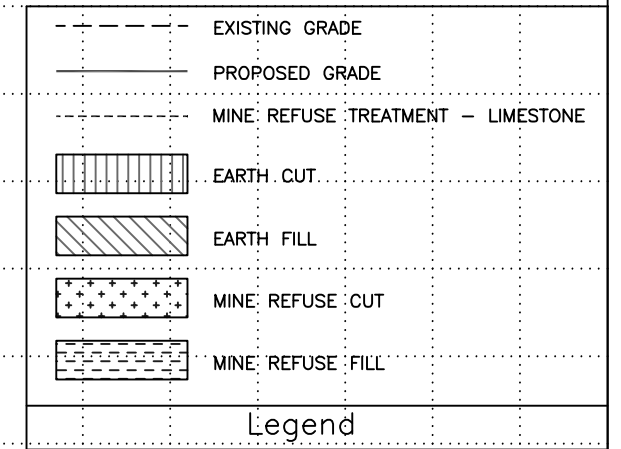
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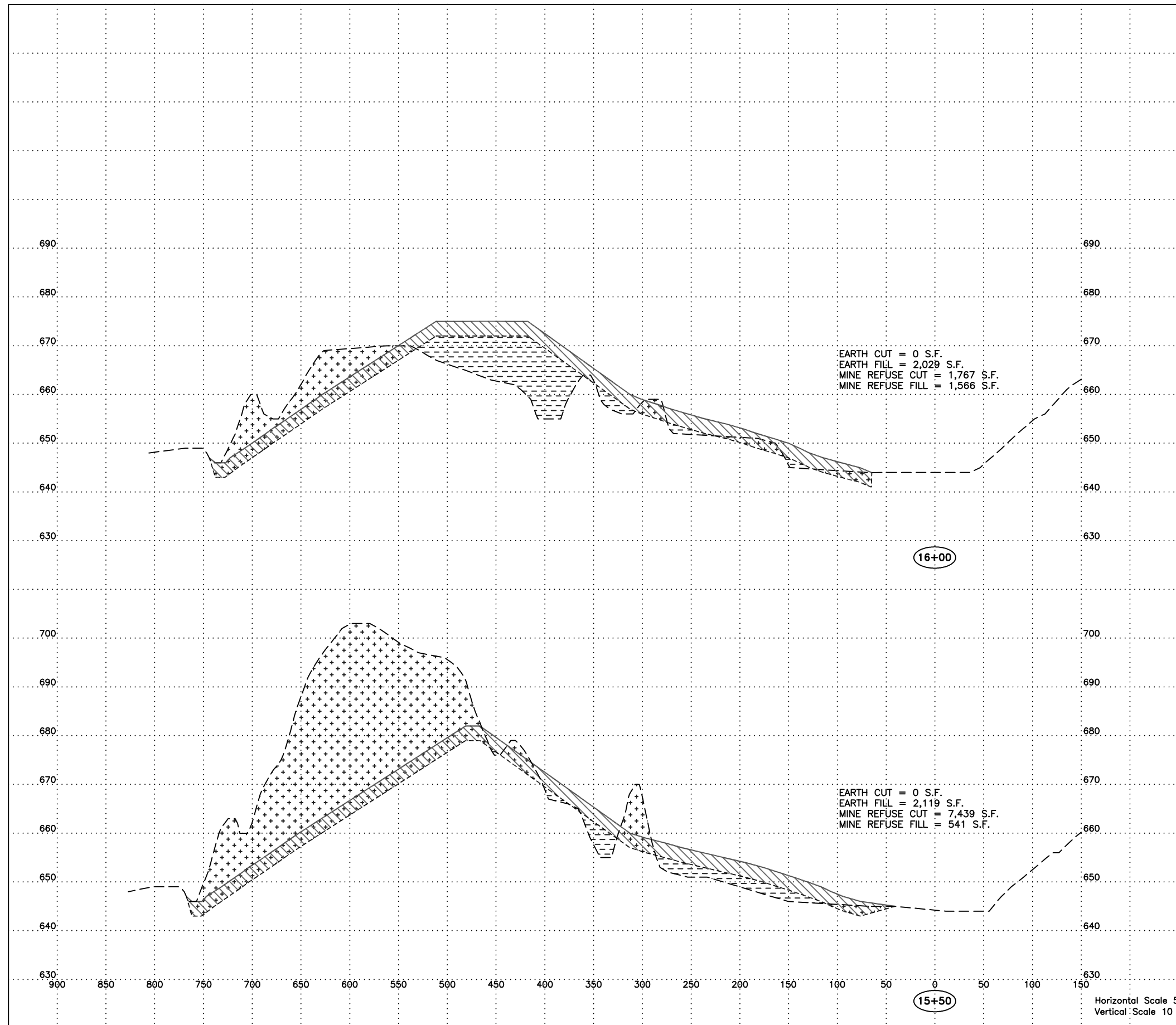
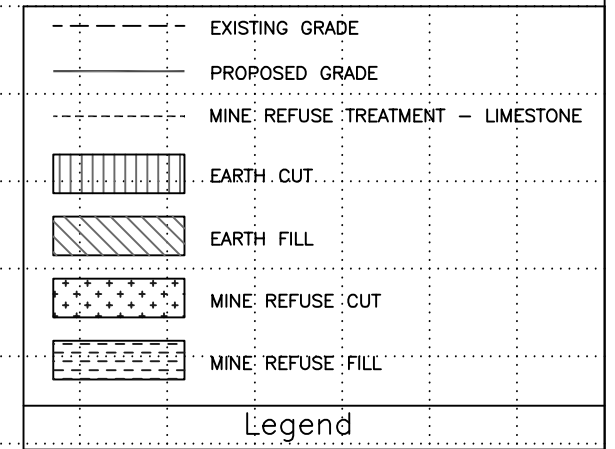


15+00

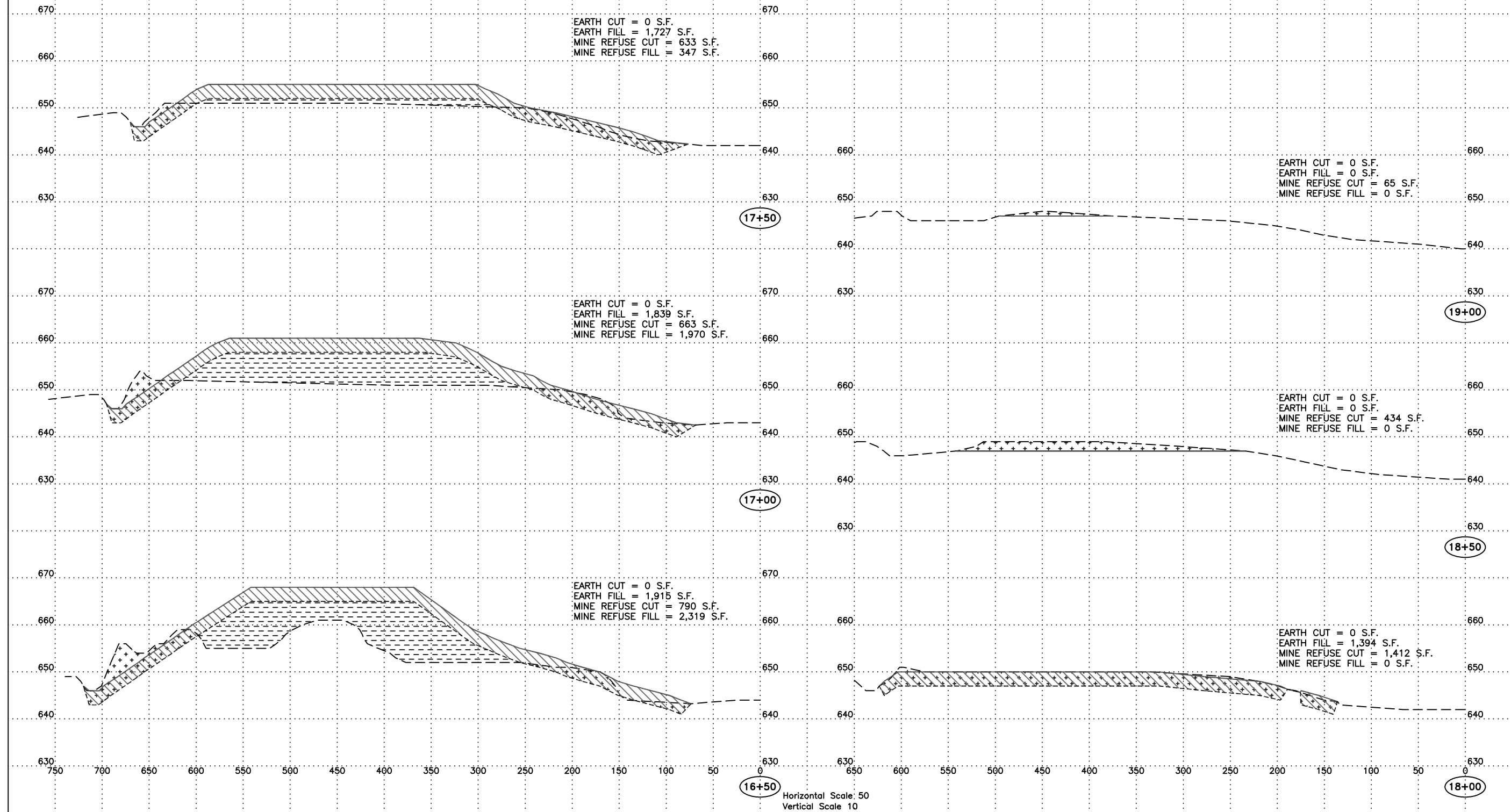
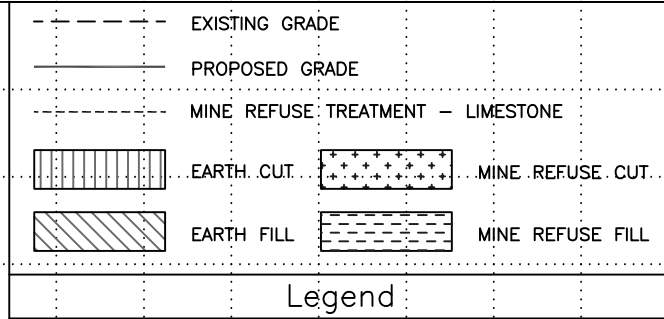
14+50

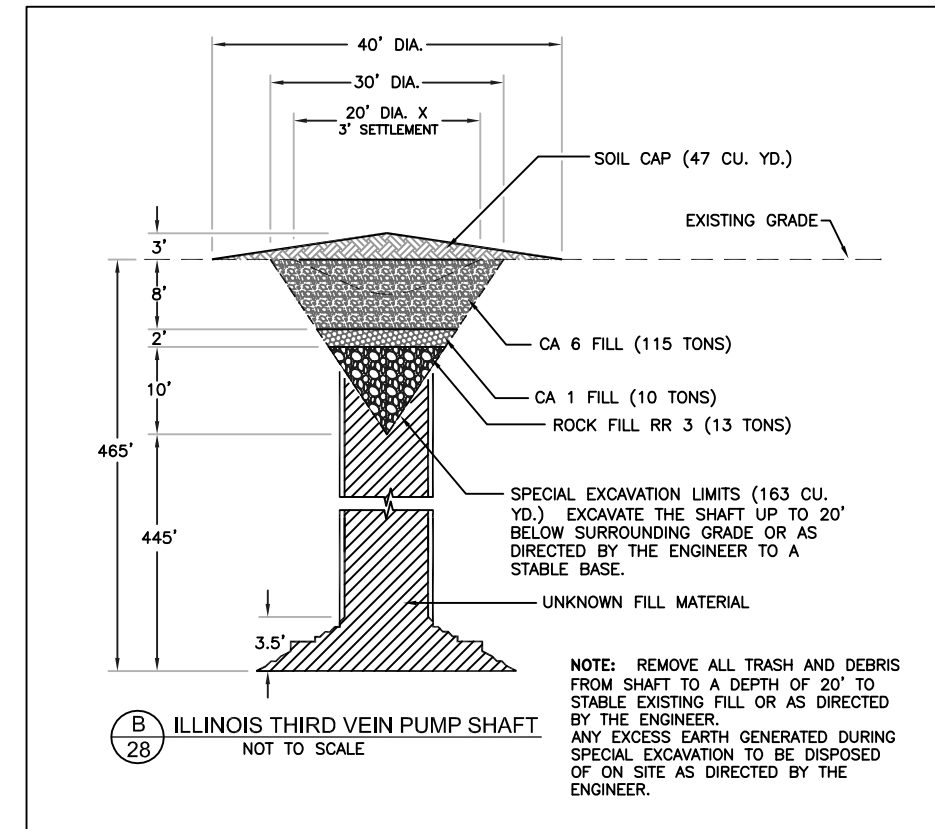
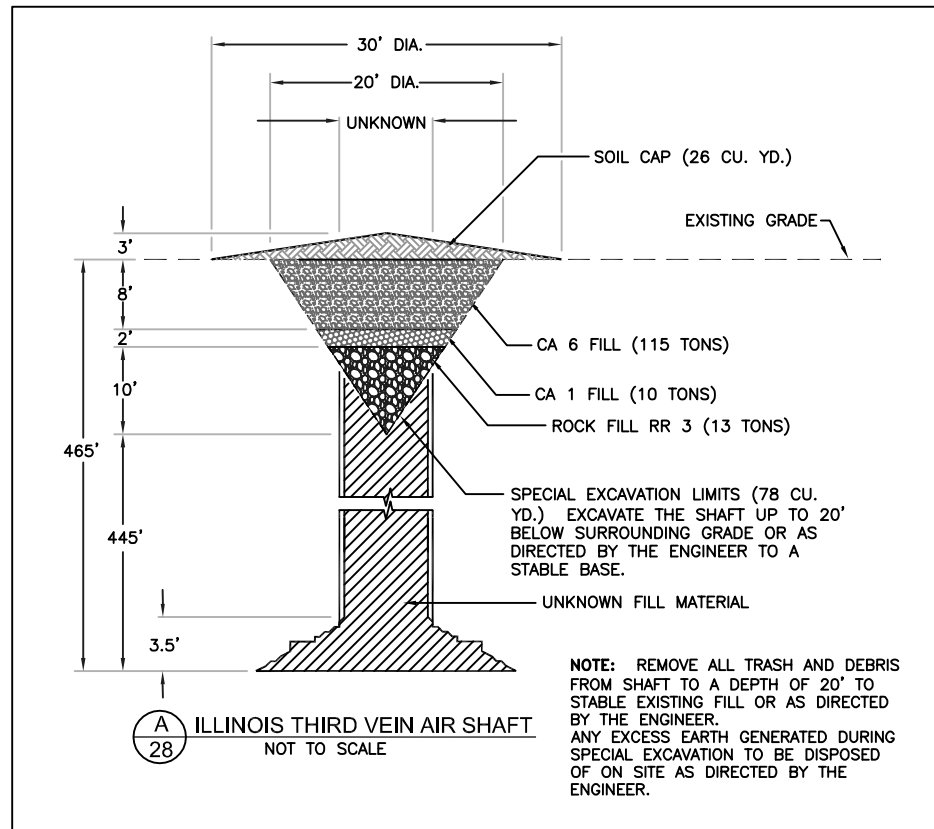
Horizontal Scale 50
 Vertical Scale 10

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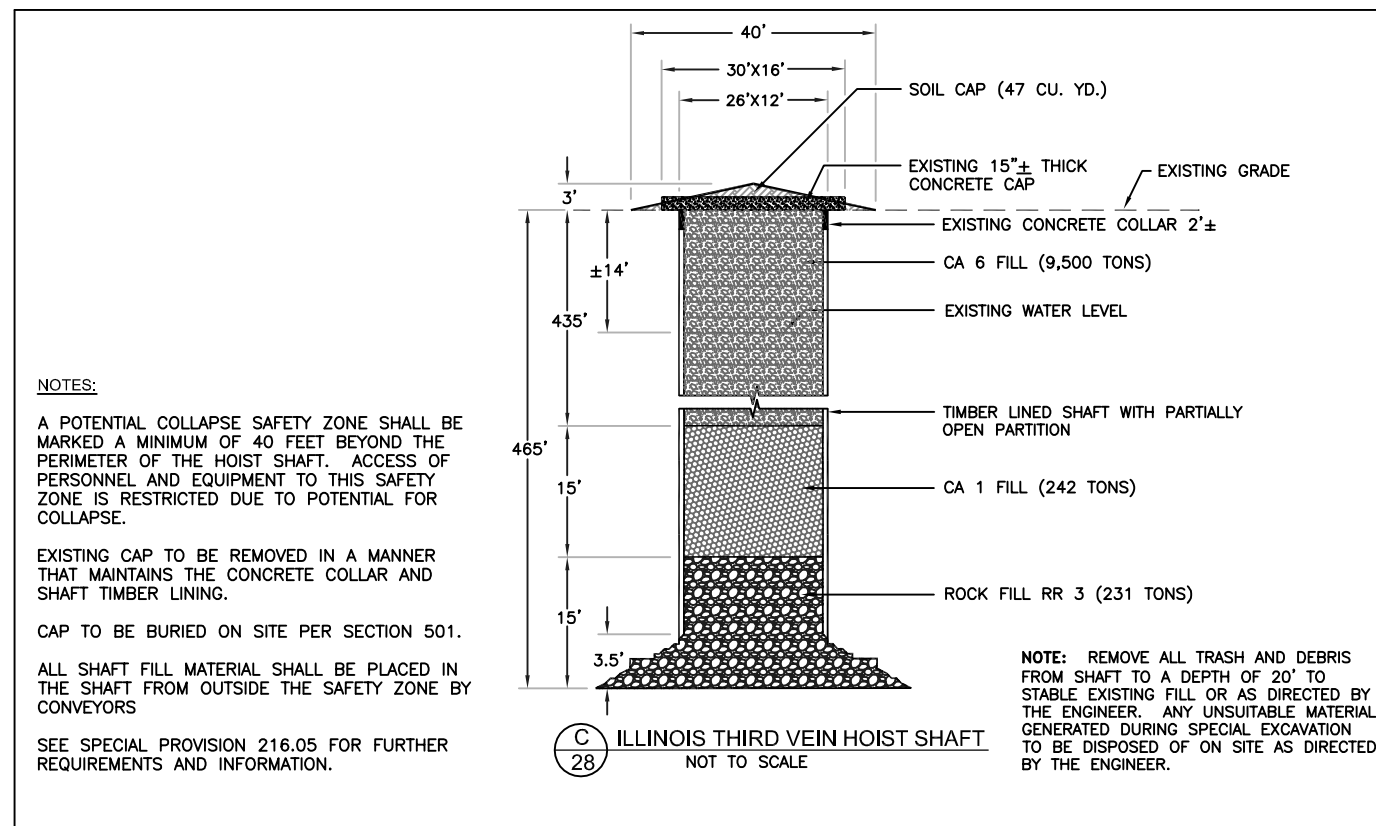
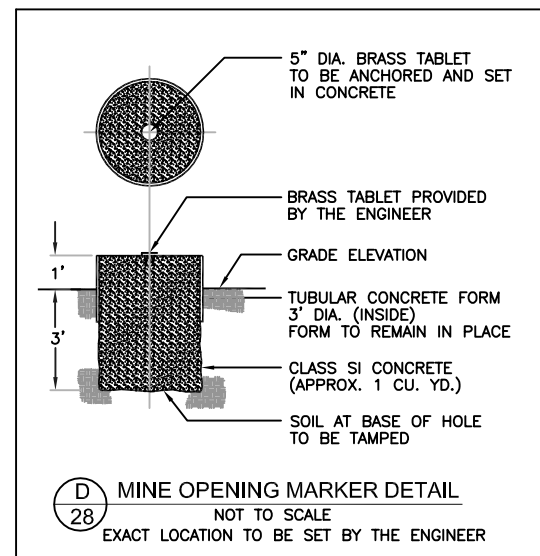


Horizontal Scale 50
 Vertical Scale 10





NOTE: DUE TO THE UNKNOWN CONDITIONS THAT EXIST IN AND AROUND THE SHAFTS, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN PERFORMING WORK NEAR THEM. 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.



NOTES:
A POTENTIAL COLLAPSE SAFETY ZONE SHALL BE MARKED A MINIMUM OF 40 FEET BEYOND THE PERIMETER OF THE HOIST SHAFT. ACCESS OF PERSONNEL AND EQUIPMENT TO THIS SAFETY ZONE IS RESTRICTED DUE TO POTENTIAL FOR COLLAPSE.
EXISTING CAP TO BE REMOVED IN A MANNER THAT MAINTAINS THE CONCRETE COLLAR AND SHAFT TIMBER LINING.
CAP TO BE BURIED ON SITE PER SECTION 501.
ALL SHAFT FILL MATERIAL SHALL BE PLACED IN THE SHAFT FROM OUTSIDE THE SAFETY ZONE BY CONVEYORS
SEE SPECIAL PROVISION 216.05 FOR FURTHER REQUIREMENTS AND INFORMATION.