

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

Peabody #40
Reclamation Project
AML-GWmE-1204
Williamson County
2LR

SCHEDULE OF DRAWINGS:

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

Prepared By IDNR Staff

Approved for Bidding:

Michael L. Woods

Michael L. Woods, Acting Director
Office of Mines and Minerals

Approved By:

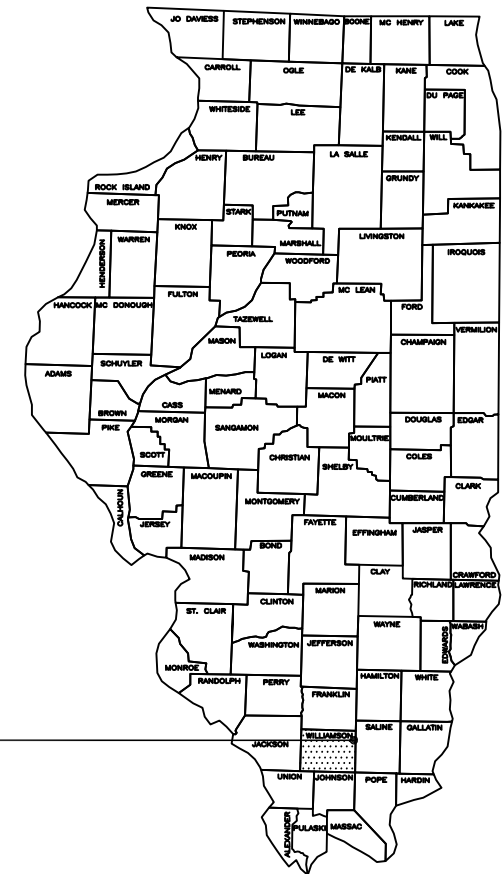
Greg Pinto

Greg Pinto, Acting Manager
AML Division

Approved By:

Lawrence L. Lewis

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



Peabody # 40 Mine Site
Williamson County

Summary of Quantities					
#	Item	Section	Quantity	Unit	Rates/Remarks
1	Special Clearing	201	1	L.S.	
2	Earth Excavation	202	35	C.Y.	Compaction per Section 205
3	Furnished Excavation	204	5,465	C.Y.	Compaction per Section 205
4	Seeding	250	3.5	Acre	
5	Agricultural Ground Limestone	250	35	Ton	Application Rate – 10 Tons/Acre
6	Nitrogen Fertilizer Nutrient	250	1,050	Pound	See Schedule Below
7	Phosphorus Fertilizer Nutrient	250	525	Pound	
8	Potassium Fertilizer Nutrient	250	1,225	Pound	
9	Mulch Method 2, Procedure 1	IDOT 251	3.5	Acre	2 Tons/Acre
10	Mowing	258	3.5	Acre	
11	Special Excelsior Blanket	286	800	S.Y.	8' Width
12	Barbed Wire Fence	665	250	Foot	
13	Pipe Underdrains, 6" Perforated Corrugated PE w/Smooth Interior, Type SP, Class 2	601	180	Foot	In Accordance to AASHTO M 252
14	Pipe Underdrains, 6" Corrugated PE w/Smooth Interior, Type S	601	70	Foot	In Accordance to AASHTO M 252
15	Engineered Barrier, 15' Width	601	300	S.Y.	
16	Mobilization (Max. of 6 % of Bid)	671	1	L.S.	

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

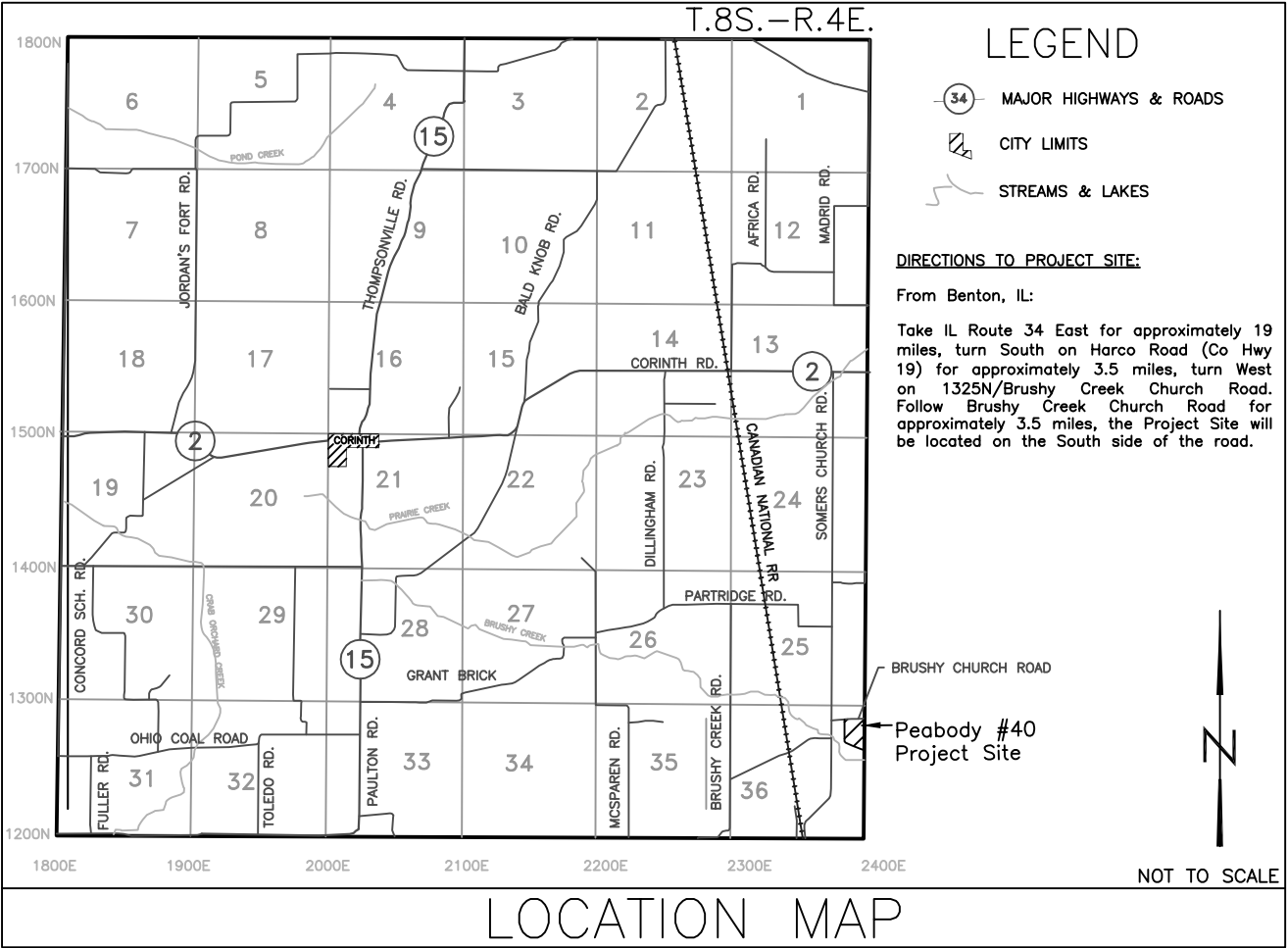
BURIAL/REMOVAL OF MATERIAL–Concrete and masonry debris designated for burial by the engineer shall be buried at least three feet below proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer approved offsite landfill in accordance with Sections 201 and 501 of the Special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

TREE REMOVAL–Trees cleared from the shall be disposed of onsite per Section 201 of the Special Provisions. Clearing of all trees may only occur from October 1st to March 31st. No trees may be removed from outside this window.

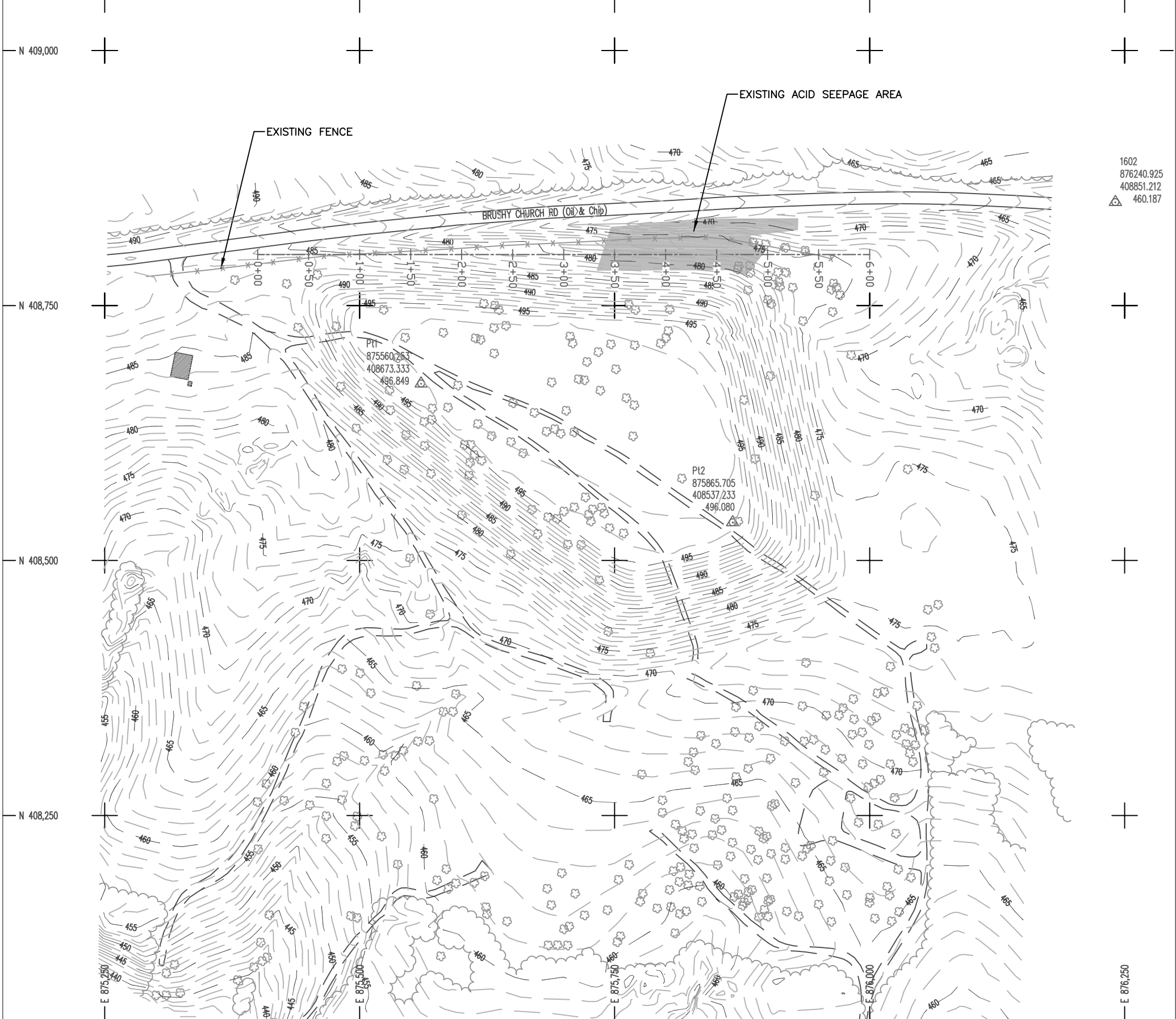
EROSION CONTROL–The contractor shall schedule his operations and take such precautions that may be necessary to prevent or minimize erosion. Failure to comply with this requirement shall cause the contractor to be fully responsible for repairing any eroded areas and cleaning up areas or drainage structures 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 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, Mulch, and Mowing			
ITEM (unit)	SPRING 2013 JAN 1 – MAR. 15	FALL 2013 AUG. 20 – SEPT. 30	TOTAL QUANTITY
SEEDING (acres)	3.5		3.5
AGRICULTURAL GROUND LIMESTONE (tons)	35 10 T/A	Actual Date to be Approved by Engineer	35
NITROGEN FERTILIZER NUTRIENT (pounds)	525 150 Lb./A	525 150 Lb./A	1,050
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	525 150 Lb./A		525
POTASSIUM FERTILIZER NUTRIENT (pounds)	1,225 350 Lb./A		1,225
MULCH, METHOD 2 PROCEDURE 1 (acre)	3.5 2 T/A		3.5
MOWING (acres)		3.5	3.5



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EXISTING CONTOUR

BASELINE FOR CROSS SECTIONS

TREE LINE

OVERHEAD ELECTRIC LINE

EXISTING FENCE

CONTROL POINT

EXISTING STRUCTURE

Legend



| POINT | NORTHING   | EASTING    | ELEVATION | DESCRIPTION    |
|-------|------------|------------|-----------|----------------|
| PT1   | 408,673.33 | 875,560.25 | 496.85    | REBAR WITH CAP |
| PT2   | 408,537.23 | 875,865.71 | 496.08    | REBAR WITH CAP |
| 1602  | 408,851.21 | 876,240.93 | 460.19    | MAGNETIC NAIL  |

EXISTING CONDITIONS

Sheet 3 of 8

Drawn By: JMB

Checked By:

Date: 06-18-2012

PEABODY # 40

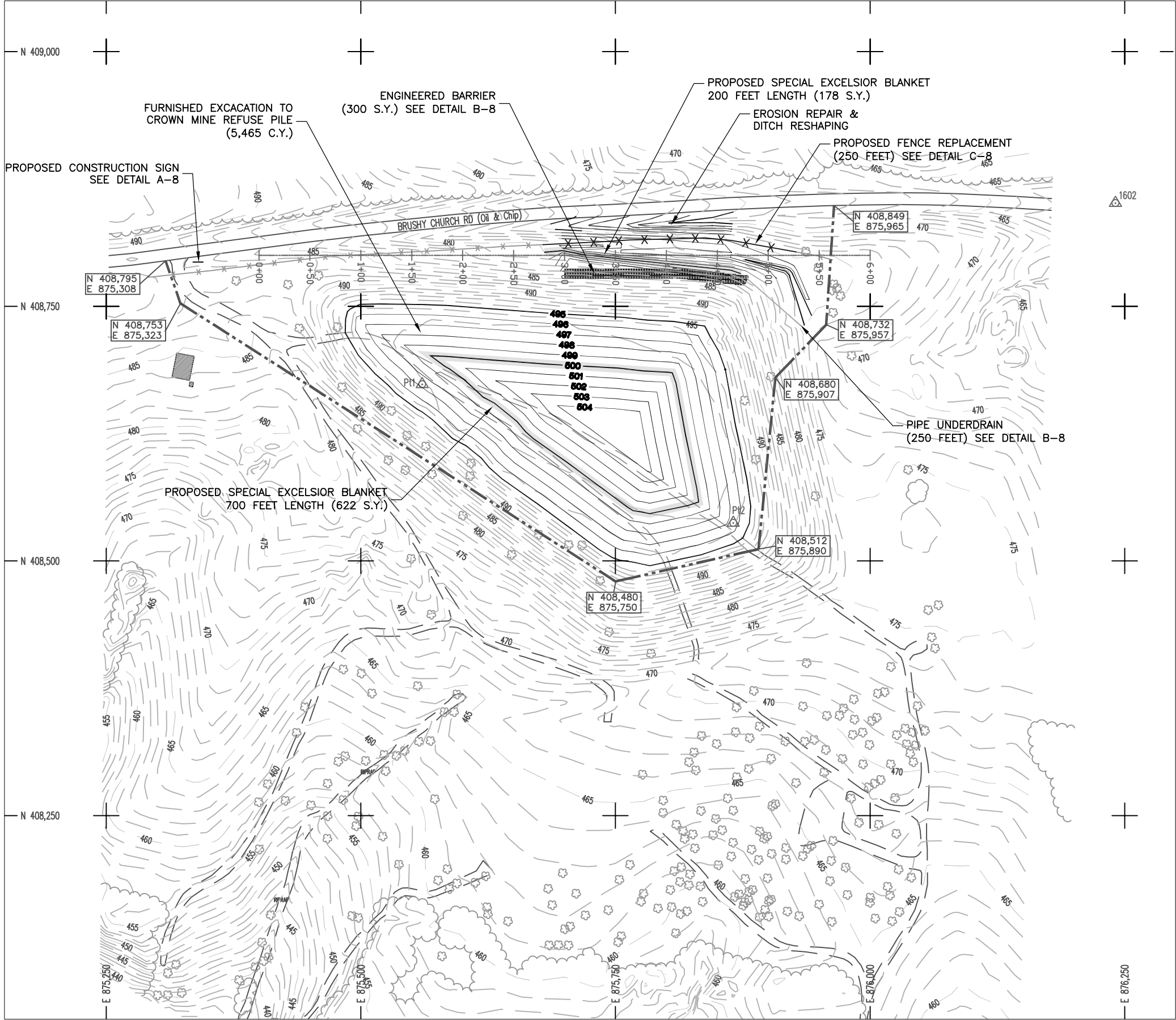
Reclamation Project

AML-GWmE-1204

Williamson County

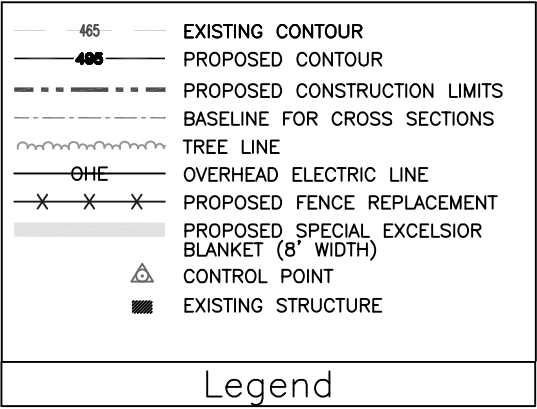
State of Illinois

Department of Natural Resources



CONSTRUCTION NOTES

The upper 180' of pipe underdrain shall be Perforated Corrugated PE Pipe with a Smooth Interior encased in a fabric envelope. The lower 70' of pipe underdrain shall be Corrugated PE Pipe with a Smooth Interior.



State of Illinois  
Department of Natural Resources

PEABODY # 40  
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Drawn By: JMB Date: 06-18-2012  
Checked By: \_\_\_\_\_

PROPOSED CONDITIONS  
Sheet 4 of 8

Peabody #40  
Reclamation Project  
AML-GWmE-1204  
Williamson County

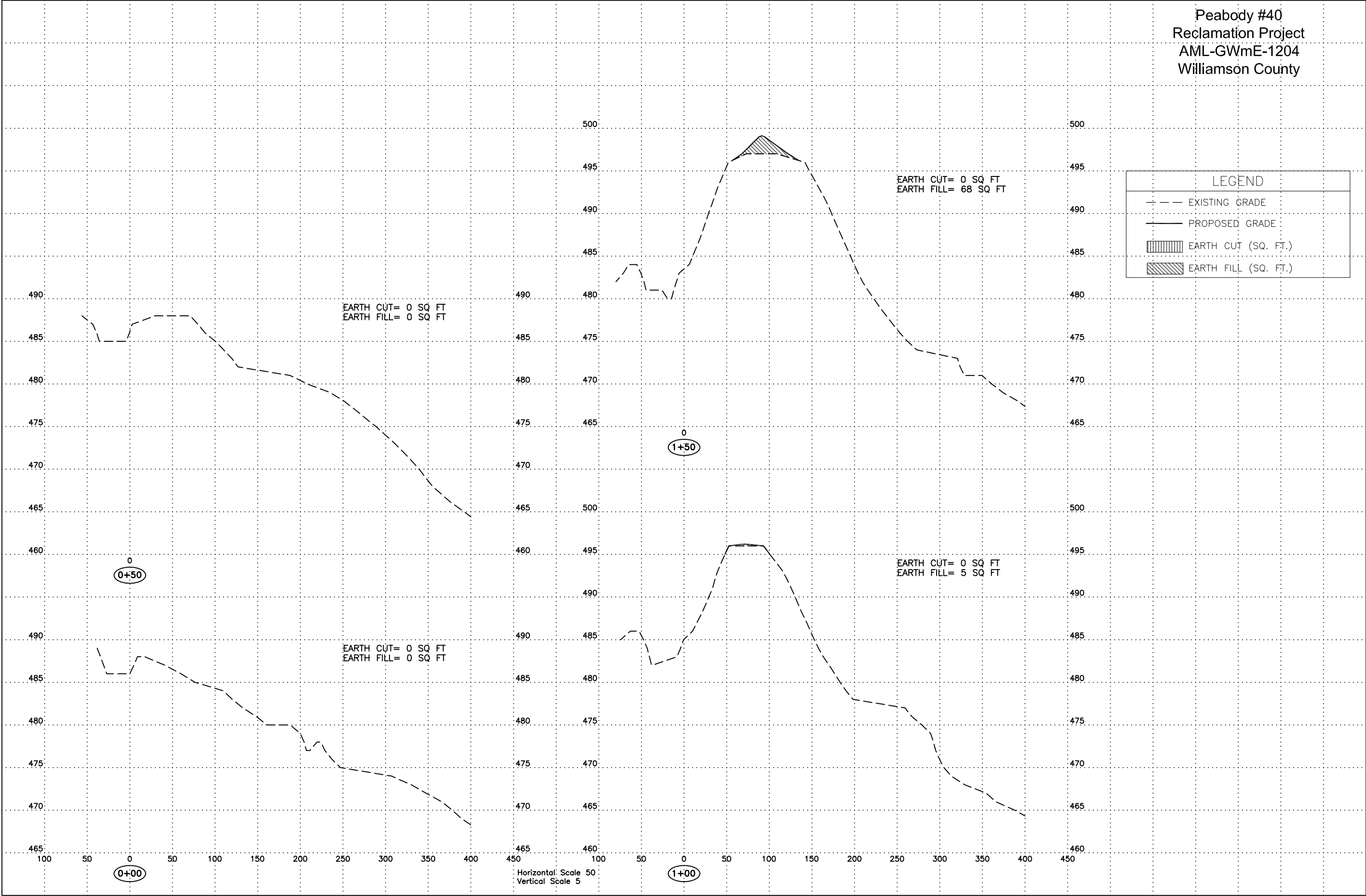
LEGEND

EXISTING GRADE

PROPOSED GRADE

EARTH CUT (SQ. FT.)

EARTH FILL (SQ. FT.)



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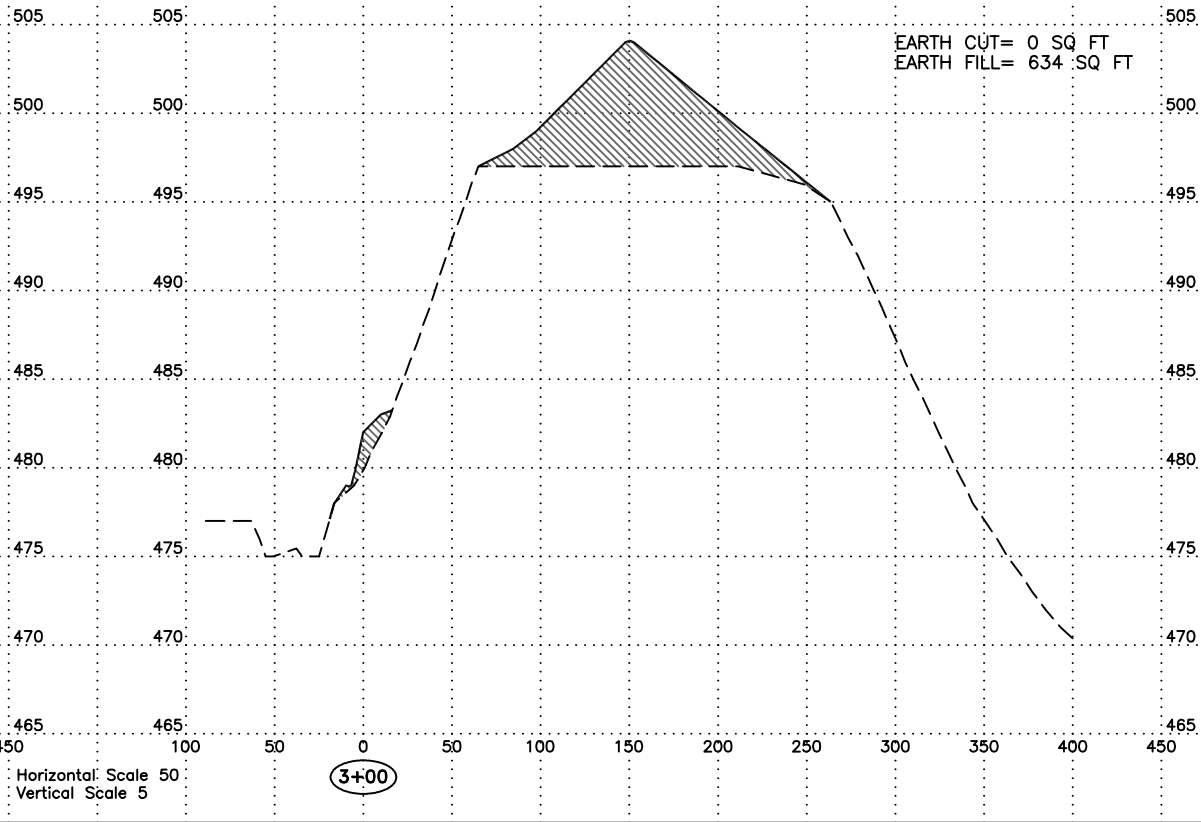
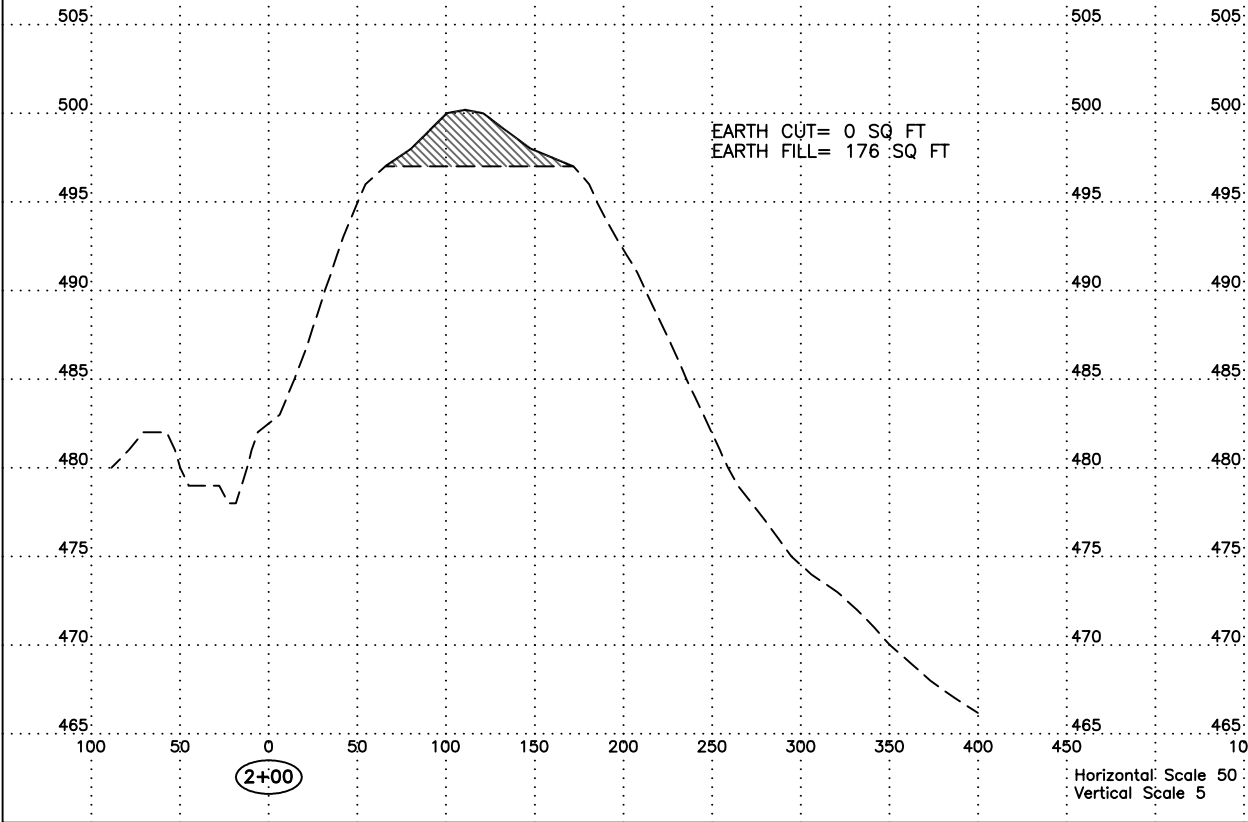
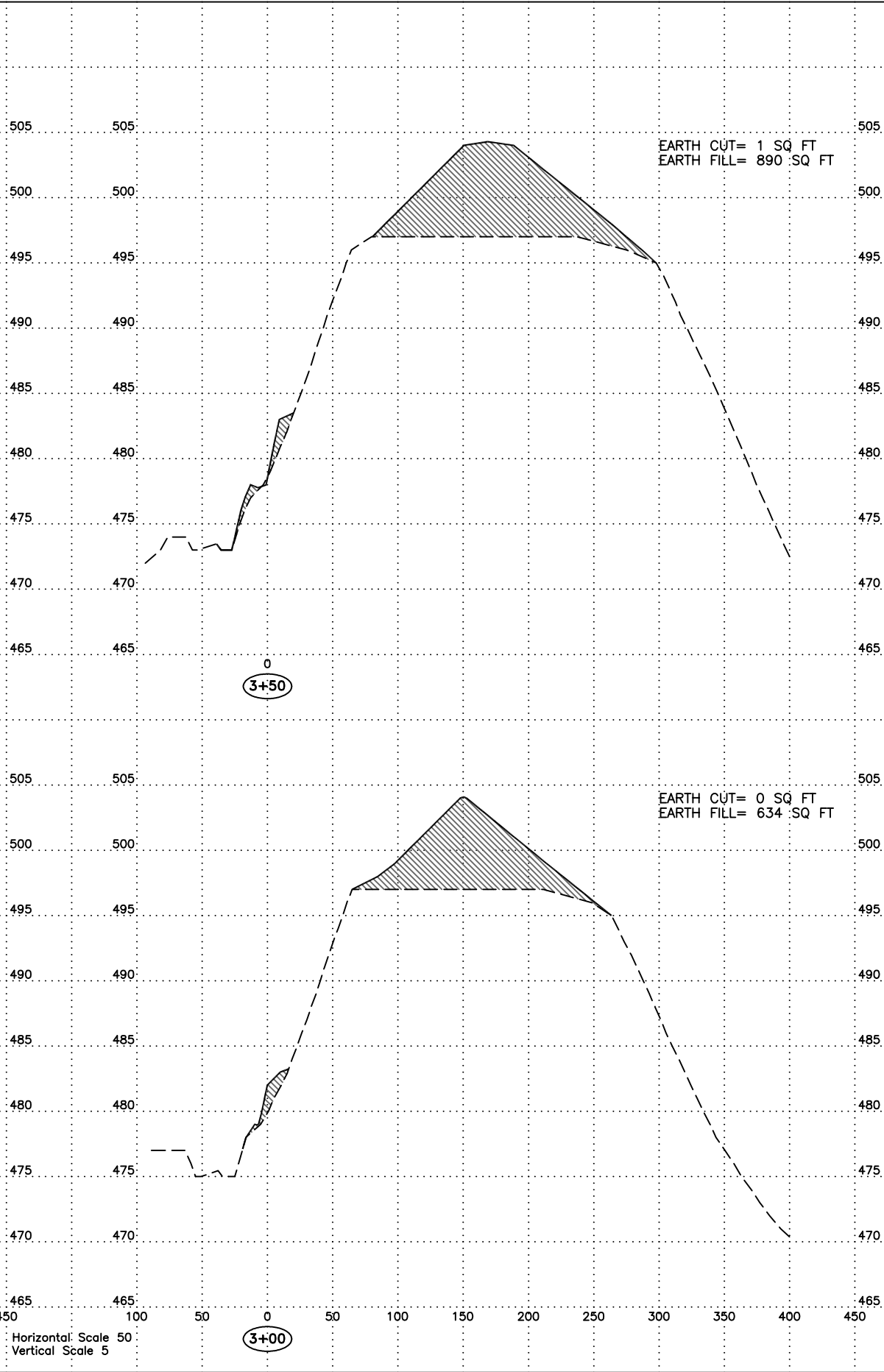
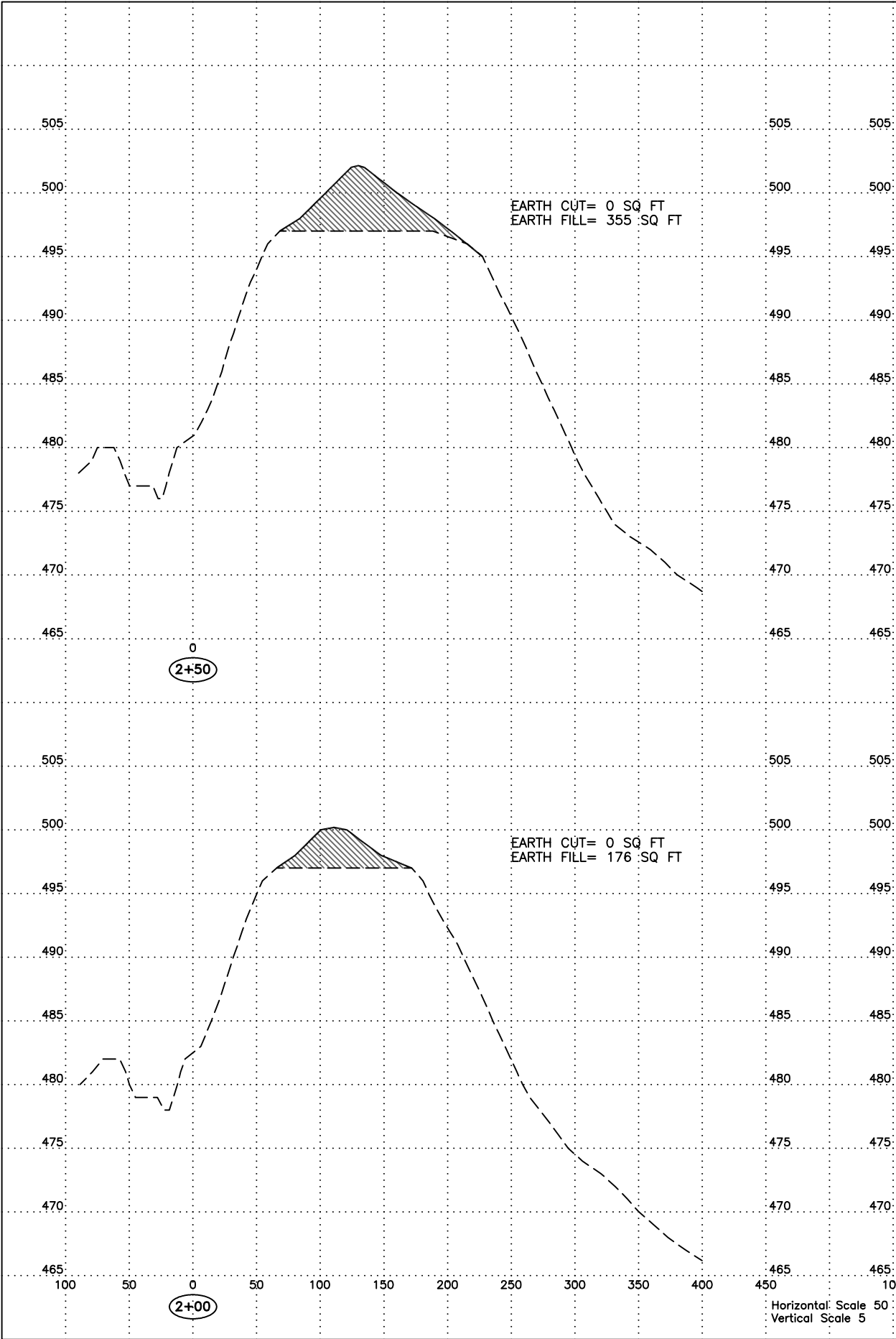
LEGEND

EXISTING GRADE

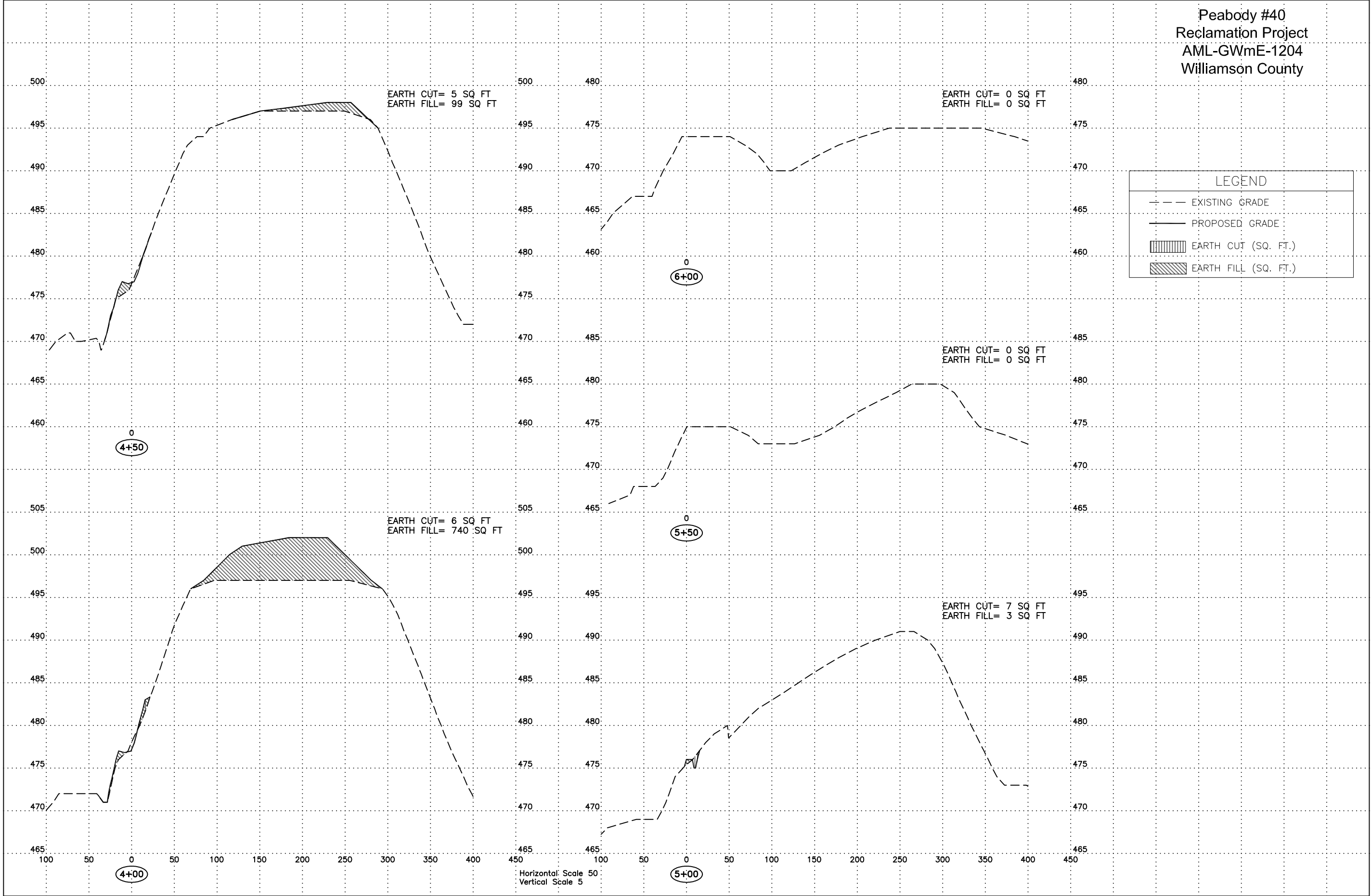
PROPOSED GRADE

EARTH CUT (SQ. FT.)

EARTH FILL (SQ. FT.)



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1.5"

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

Illinois Dept. of Natural Resources

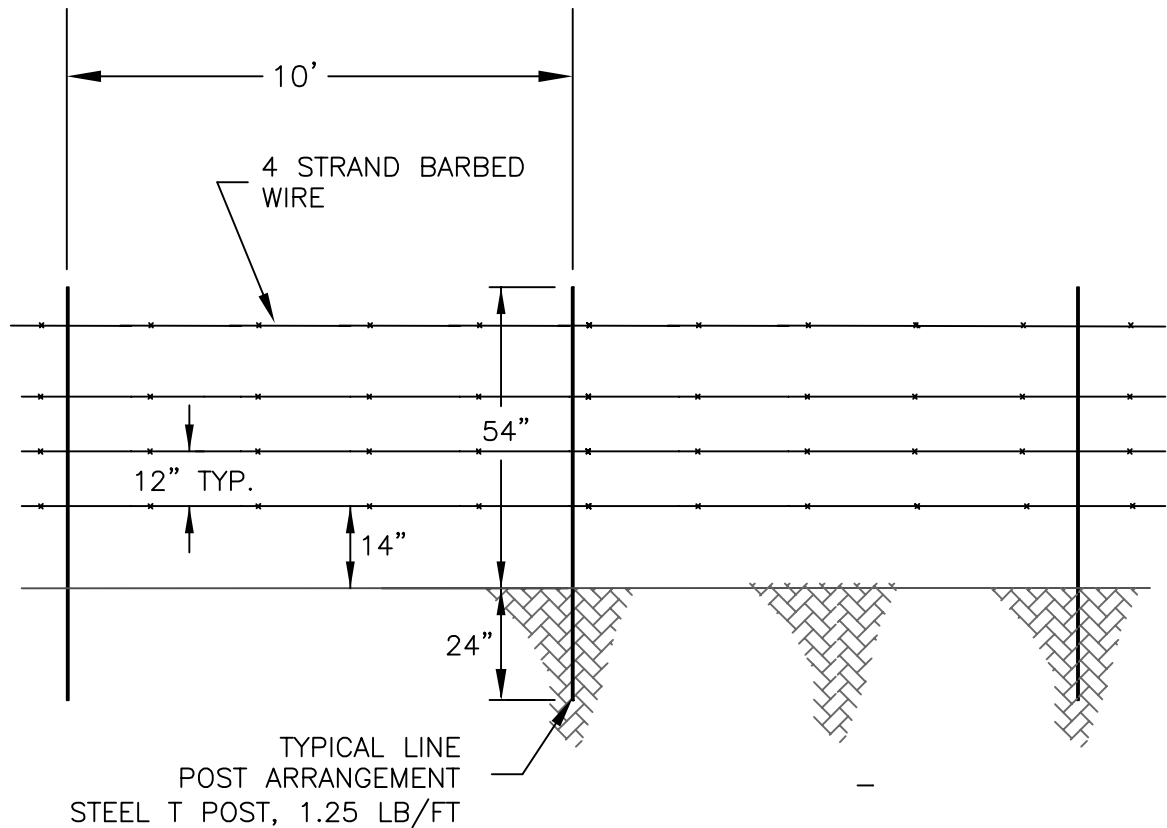
In cooperation with the Office of Surface Mining

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.

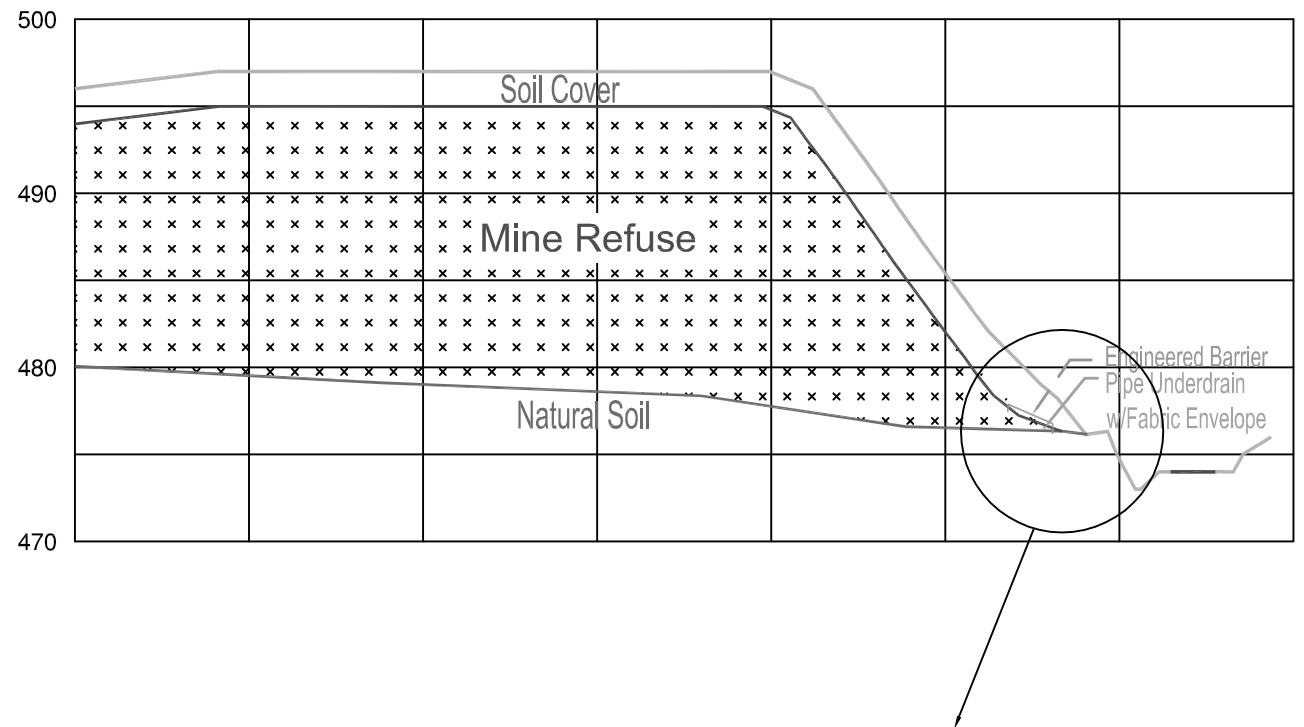
CONSTRUCTION SIGN DETAIL

DETAIL A-8, NOT TO SCALE, EXACT LOCATION TO BE SET BY ENGINEER

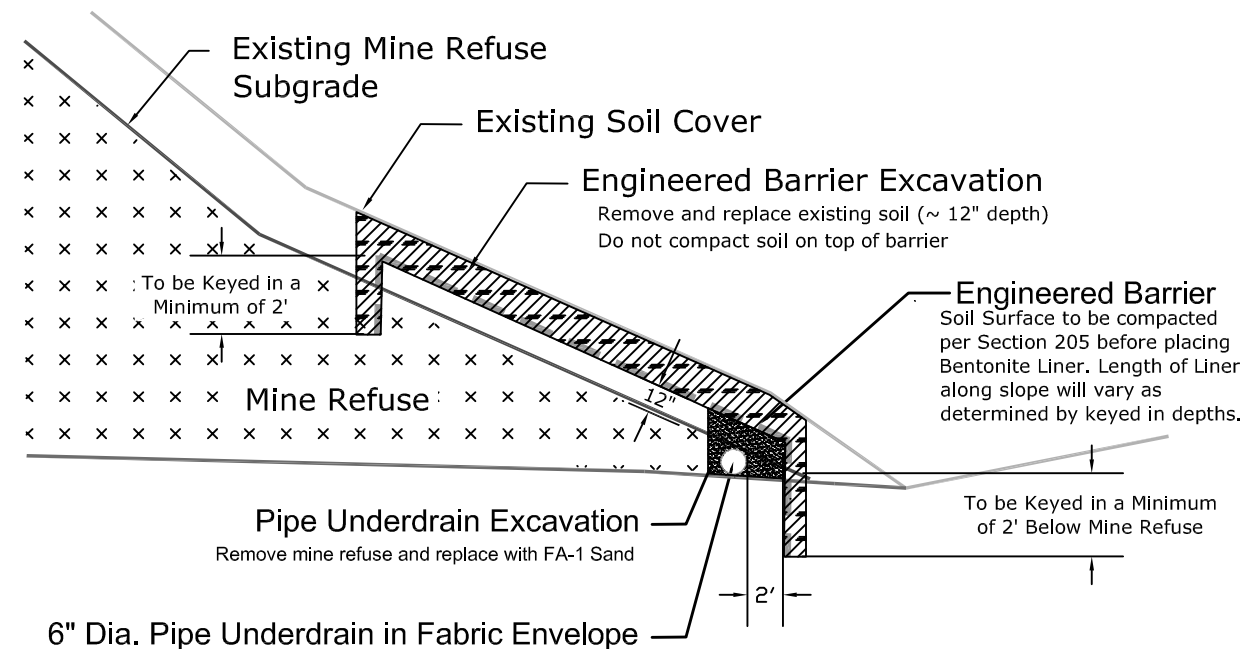


TYPICAL — FENCE REPLACEMENT

DETAIL C-8, NOT TO SCALE



PLACEMENT / DIMENSIONS



PIPE UNDERDRAIN & ENGINEERED BARRIER INSTALLATION DETAILS

- From Station 3+00 to Station 4+80:

180' of 6" Dia. Perforated Corrugated Polyethylene Pipe with Smooth Interior- Type SP Class 2  
Pipe shall conform to AASHTO M 252 & be encased in a Fabric Envelope
- 180' of Engineered Barrier required with the pipe underdrain
- From Station 4+80 to Station 5+32:

70' of 6" Dia. Corrugated Polyethylene Pipe with Smooth Interior - Type S  
Pipe shall also conform to AASHTO M 252
- Pipe Underdrain to be installed before the installation of the Engineered Barrier.

BENTONITE LINER AND DRAIN PIPE DETAIL

DETAIL B-8, NOT TO SCALE