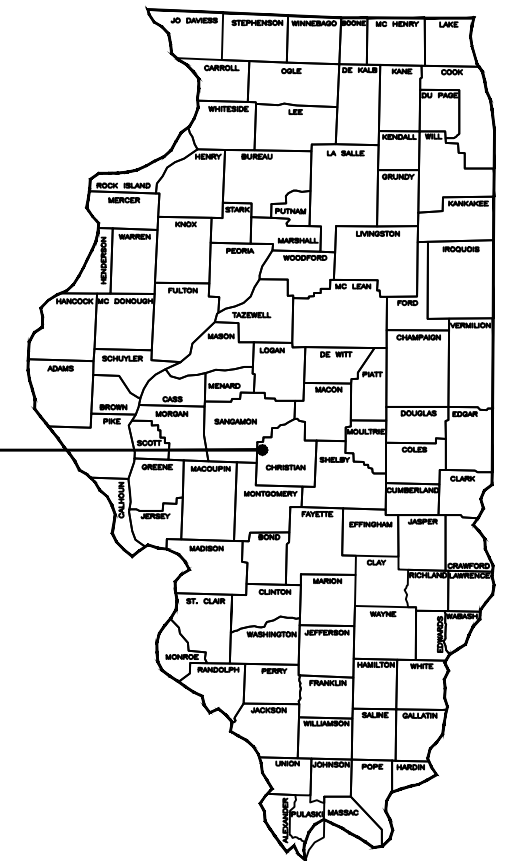


State of Illinois
Department of Natural Resources
Office of Mines and Minerals
Abandoned Mined Lands Reclamation Division

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

Peabody No. 10
Reclamation Project - Phase III
AML-GcTE-1713
Christian County
1LR

Peabody No. 10
Christian County



NOTE:

A Pre-bid Meeting for this project will be held on Thursday, June 7, 2018 at 10:30 a.m., on-site at the southwest corner of the mine refuse disposal mound.

Certified Copy

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Existing and Proposed Conditions - Earth Cover Areas
4. Existing and Proposed Conditions - Borrow Area
- 5-8. Cross Sections

Contract No. M1713

Prepared By IDNR Staff

Approved for Bidding:

Thomas A. Benner, Director
Office of Mines and Minerals

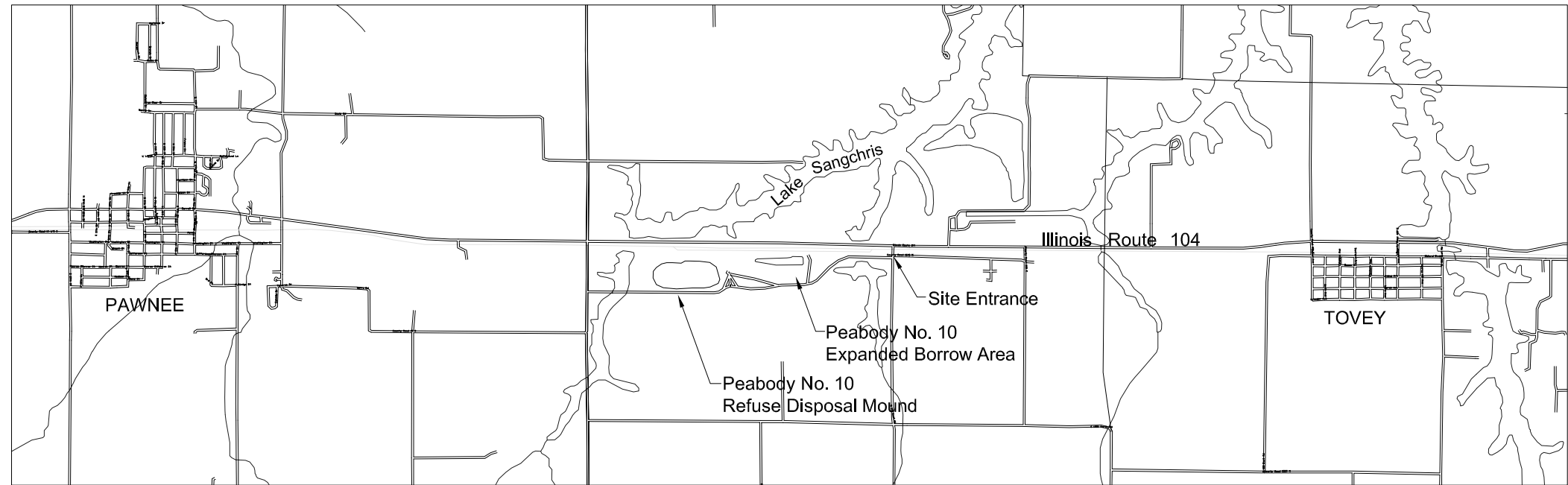
Approved By:

Greg Pinto, Acting Manager
AMLR Division

Approved By:

Vinodchandra V. Patel
IL Licensed Professional Engineer
No. 062.046043





Location Map

Summary of Quantities

Item No.	#	Item	Section	Quantity	Unit	Rates/Remarks
NRM20110	1	Special Clearing	201	1	L SUM	
NRM20210	2	Earth Excavation	202	91,217	CU YD	Compaction in accordance with Section 205
25000305	3	Seeding, Class 3A	IDOT 250	16	ACRE	
25000400	4	Nitrogen Fertilizer Nutrient	IDOT 250	2,244	POUND	120 pounds/acre
25000500	5	Phosphorous Fertilizer Nutrient	IDOT 250	1,870	POUND	100 pounds/acre
25000600	6	Potassium Fertilizer Nutrient	IDOT 250	4,675	POUND	250 pounds/acre
25000700	7	Agricultural Ground Limestone	IDOT 250	160	TON	10 tons/acre
25100115	8	Mulch, Method 2	IDOT 251	16	ACRE	2 tons/acre
NRM28040	9	Perimeter Erosion Barrier	280	1,285	FOOT	Silt Fence
NRM28610	10	Special Excelsior Blanket	286	2,284	SQ YD	
NRM61410	11	Dewatering Impoundments	614	1	L SUM	
NRM67110	12	Mobilization (Max. 6% of Bid)	671	1	L SUM	

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.

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.

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.

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 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.

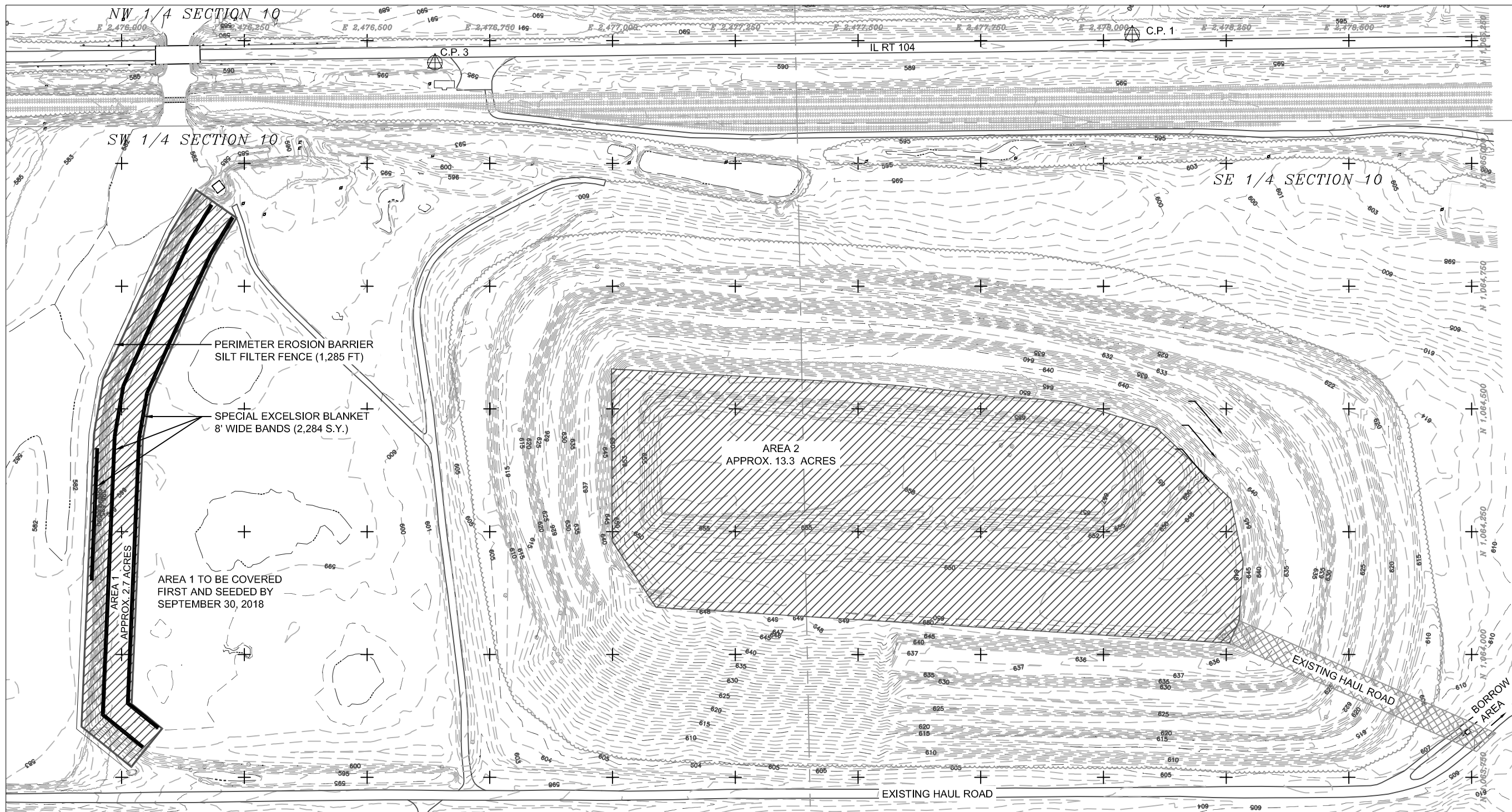
Schedule of Seeding, Fertilizer Nutrients, and Mulching (Area 1)

ITEM (unit)	March 15, 2018 – April 10, 2018	August 15, 2018 – September 30, 2018	March 15, 2019 – April 10, 2019	TOTAL QUANTITY
SEEDING (acres)		2.7 acres		2.7 acres
AGRICULTURAL GROUND LIMESTONE (tons)		27 tons (10 tons/acre)		27 tons
NITROGEN FERTILIZER NUTRIENT (pounds)		324 pounds (120 pounds/acre)	324 pounds (120 pounds/acre)	648 pounds
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)		270 pounds (100 pounds/acre)	270 pounds (100 pounds/acre)	540 pounds
POTASSIUM FERTILIZER NUTRIENT (pounds)		675 pounds (250 pounds/acre)	675 pounds (250 pounds/acre)	1,350 pounds
MULCH, METHOD 2 PROCEDURE 1 (tons)		2.7 acres		2.7 acres

Schedule of Seeding, Fertilizer Nutrients, and Mulching (Area 2)

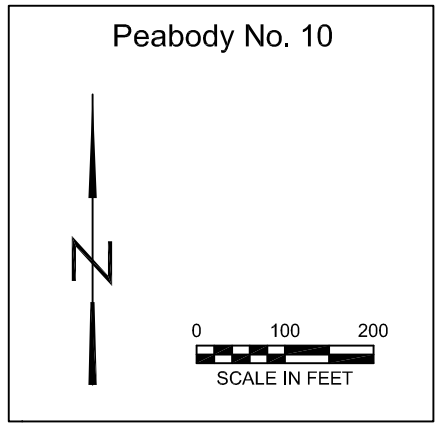
ITEM (unit)	March 15, 2019 – April 10, 2019	August 15, 2019 – September 30, 2019	March 15, 2020 – April 10, 2020	TOTAL QUANTITY
SEEDING (acres)	13.3 acres			13.3 acres
AGRICULTURAL GROUND LIMESTONE (tons)	133 tons (10 tons/acre)			133 tons
NITROGEN FERTILIZER NUTRIENT (pounds)	1,596 pounds (120 pounds/acre)			1,596 pounds
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	1,330 pounds (100 pounds/acre)			1,330 pounds
POTASSIUM FERTILIZER NUTRIENT (pounds)	3,325 pounds (250 pounds/acre)			3,325 pounds
MULCH, METHOD 2 PROCEDURE 1 (tons)	13.3 acres			13.3 acres

Drawn By: V. Patel
Checked By: B. Johnson
Date: 04/2018



Traverse Layout Data

C.P. 3 24" IRON ROD WITH RED CAP N:1065205.0984 E:2476638.3665 EL. 592.64	C.P. 2 24" IRON ROD WITH RED CAP N:1065271.4088 E:2479059.9910 EL. 594.31
C.P. 1 24" IRON ROD WITH RED CAP N:1065202.1434 E:2478058.5091 EL. 593.43	



Legend

--- 400 ---	EXISTING CONTOUR
—	EDGE OF ROAD
~~~~~	TREELINE
---	EDGE OF WATER
⊕	SURVEY CONTROL POINT

**SOIL PLACEMENT**

Areas of the existing mine refuse disposal mound are in the process of being reshaped to fill in and eliminate terraced waterways on the side slopes of the mound. The material used to fill in the terraces and reshape the mound is a combination of coal combustion by-products and municipal water treatment sludge. The placement of these materials and reshaping is the responsibility of the site owner. Filling and reshaping operations are on-going and are expected to continue for several years.

All work in Area 1 including seeding and mulching shall be completed by September 30, 2018. Area 2 is to be covered and seeded in stages to minimize erosion during the winter months.

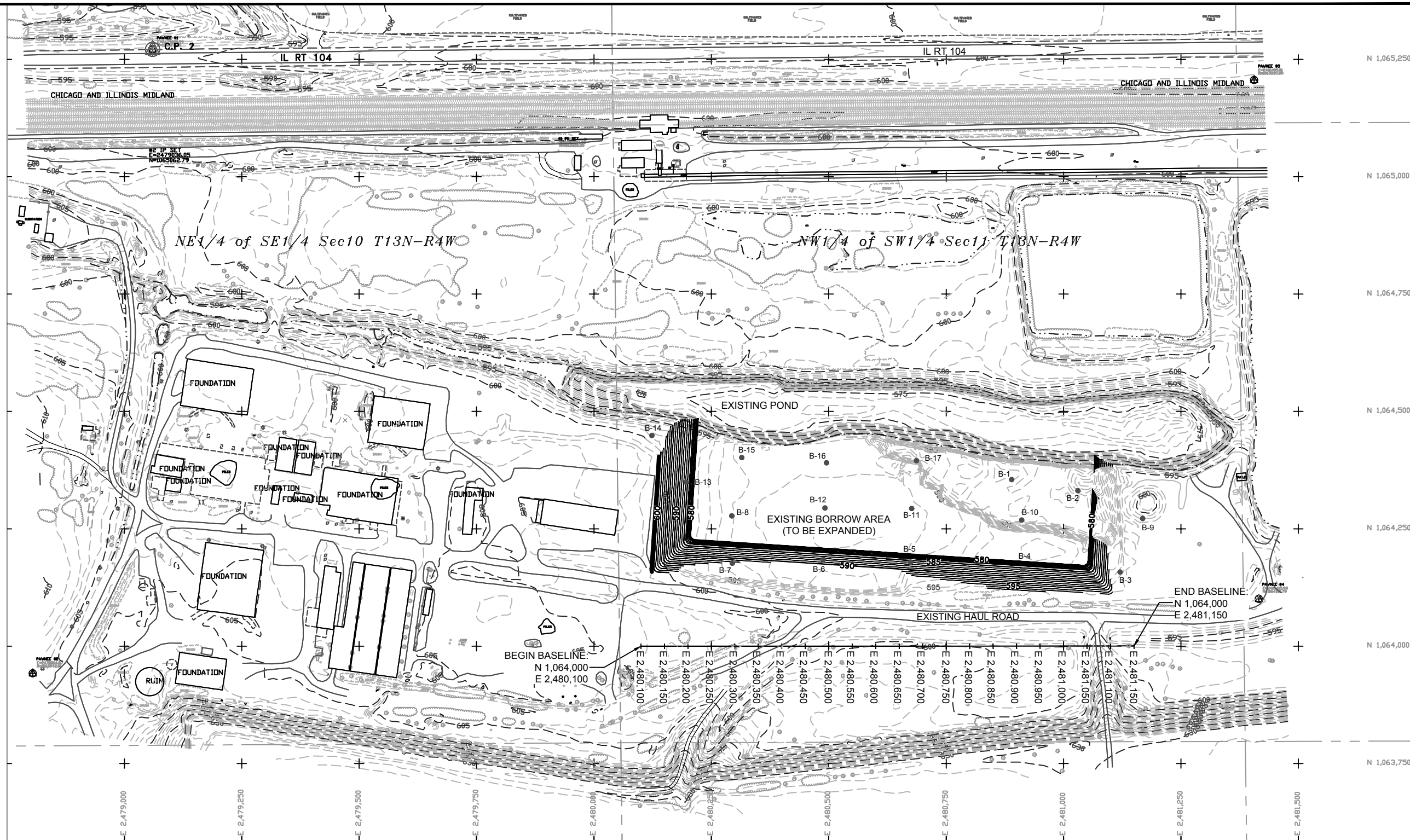
Both Areas 1 and 2 shall be covered with minimum of 36" of earthen material.

State of Illinois  
Department of Natural Resources

**Peabody No. 10**  
**Reclamation Project - Phase III**  
**AML-GCIE-1713**  
Christian County

Drawn By: V. Patel	Date: 04/2018
Checked By: B. Johnsrud	Date: 04/2018

Existing and Proposed Conditions  
Mine Refuse Disposal Mound  
Sheet  
3 of 8



State of Illinois  
Department of Natural Resources

Peabody No. 10  
Reclamation Project - Phase III  
AML-GCE-1713  
Christian County

Drawn By: V. Patel  
Checked By: B. Johnson  
Date: 04/2018

Existing and Proposed Conditions  
Expanded Borrow Area  
Sheet  
4 of 8

**USE OF EXISTING HAUL ROADS:**

The use of existing haul roads shall be performed in a manner that will not negatively affect the continued use of the haul roads by others. Deliveries of Coal Combustion By-product and Water Treatment Lime are expected to continue throughout the construction period.

The contractor will be required to control dust caused by the transport of soil over the haul roads. All work shall be performed in a manner that does not impede the operations of others using the haul roads.

**REVEGETATION OF BORROW AREA:**

Re-establishing vegetation around the borrow area shall be the responsibility of the land owner.

The contractor shall only be responsible for re-establishing vegetation on the areas of the mine refuse disposal mound where soil has been placed over the reshaped surface.

**DEWATERING**

The existing borrow area and the existing pond to the north will be dewatered by the site owner prior to project mobilization. Area of shallow standing water may remain.

The contract lump sum price for Dewatering Impoundments shall include all subsequent pumping required to maintain dewatered conditions to allow for earth excavation as shown on the plans.

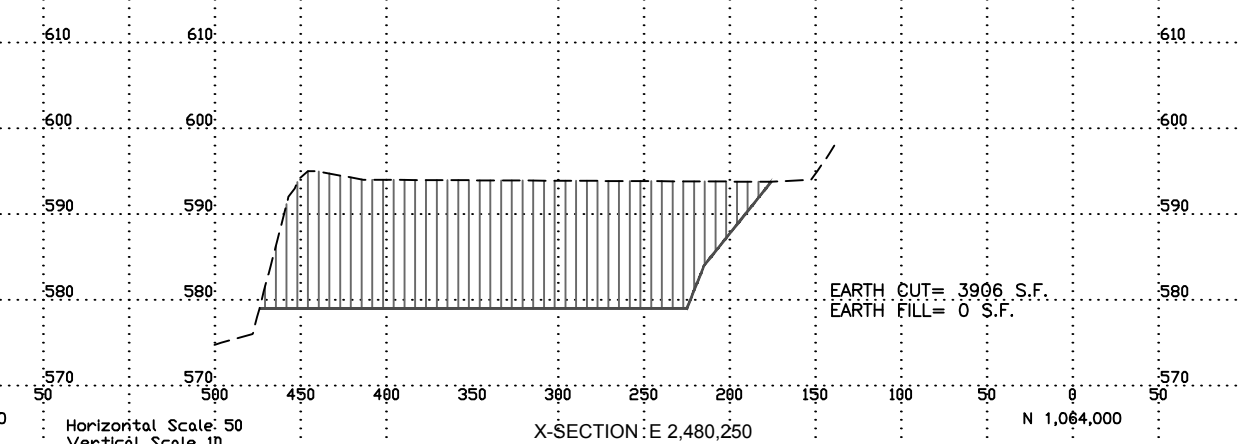
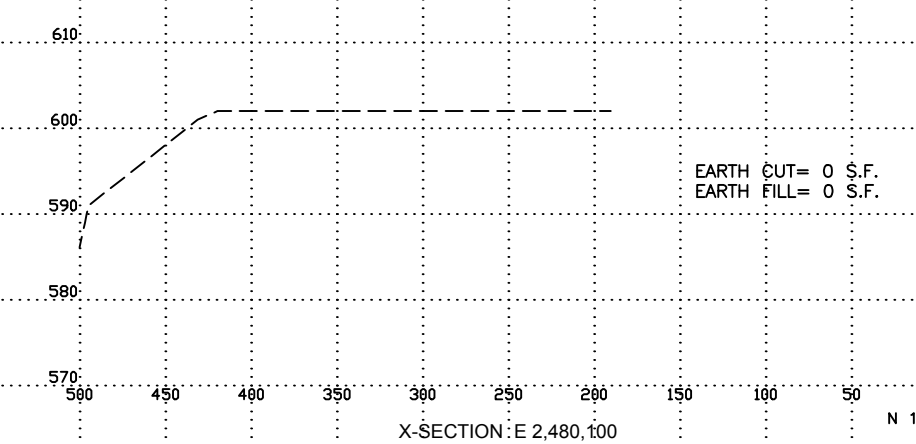
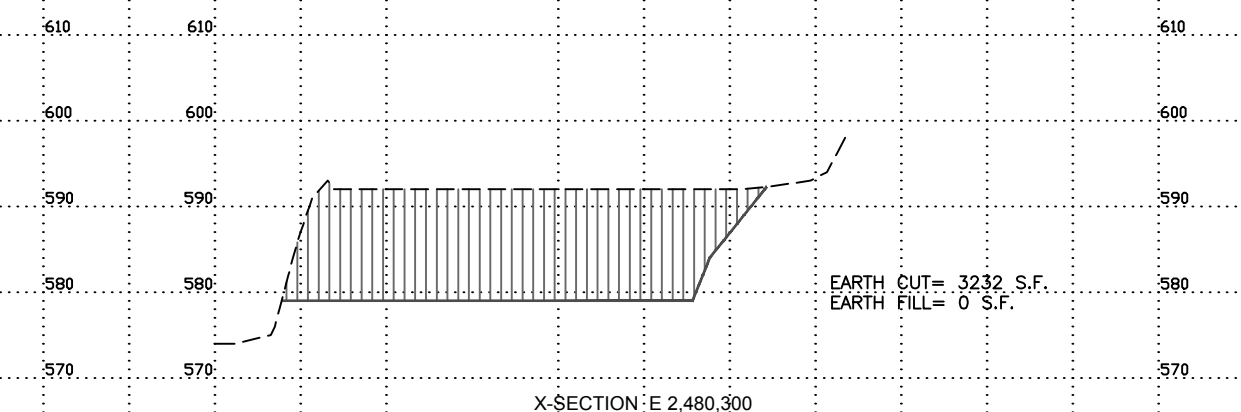
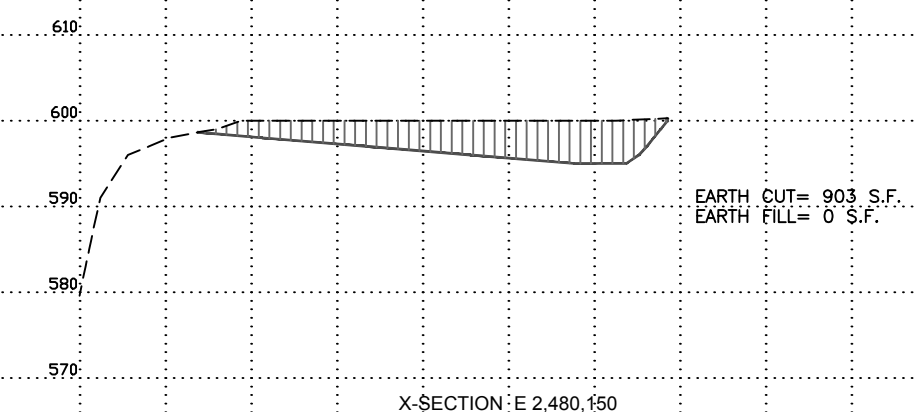
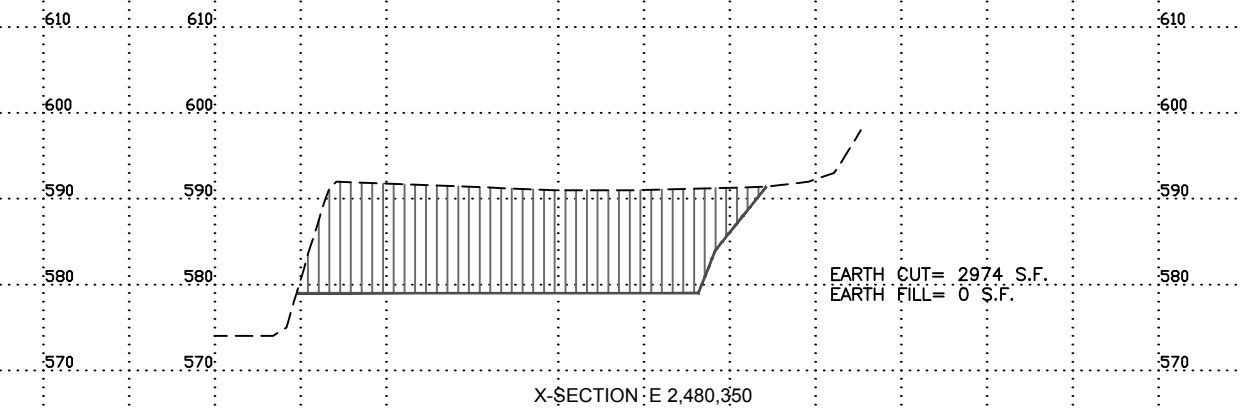
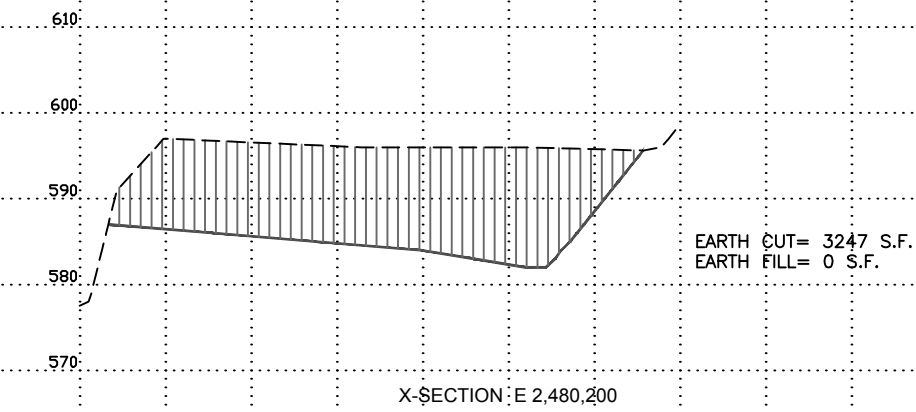
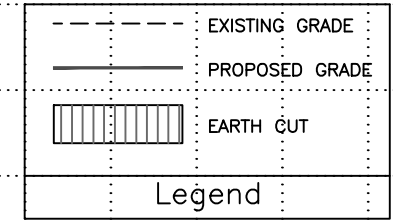
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	BORING

Legend

Peabody No. 10

SCALE IN FEET

Peabody No. 10  
 Reclamation Project - Phase III  
 AML-GCtE-1713  
 Christian County

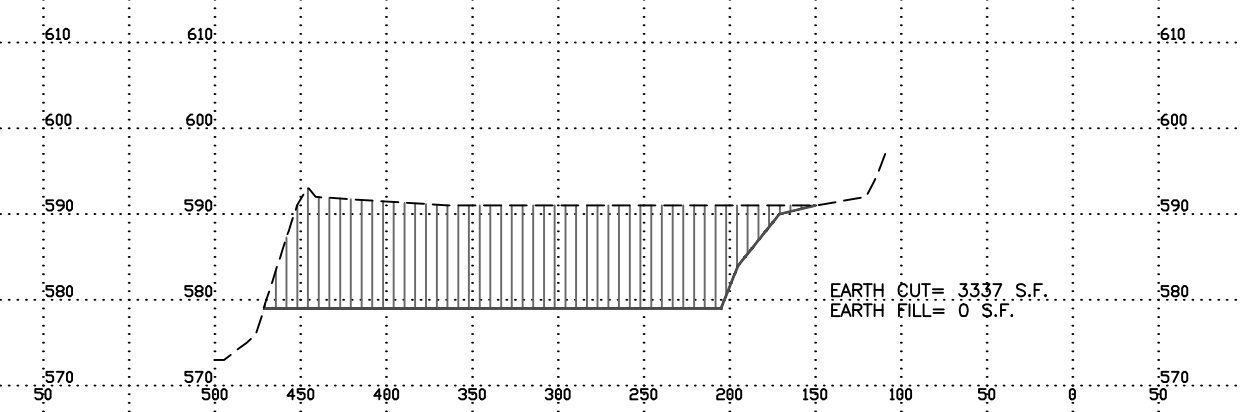
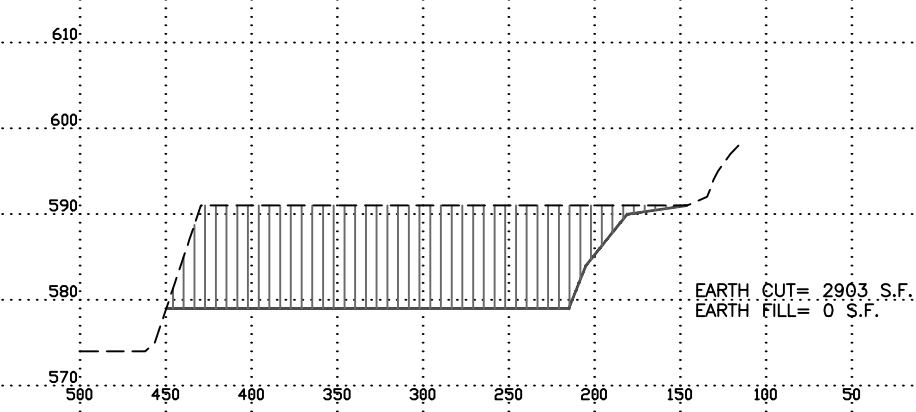
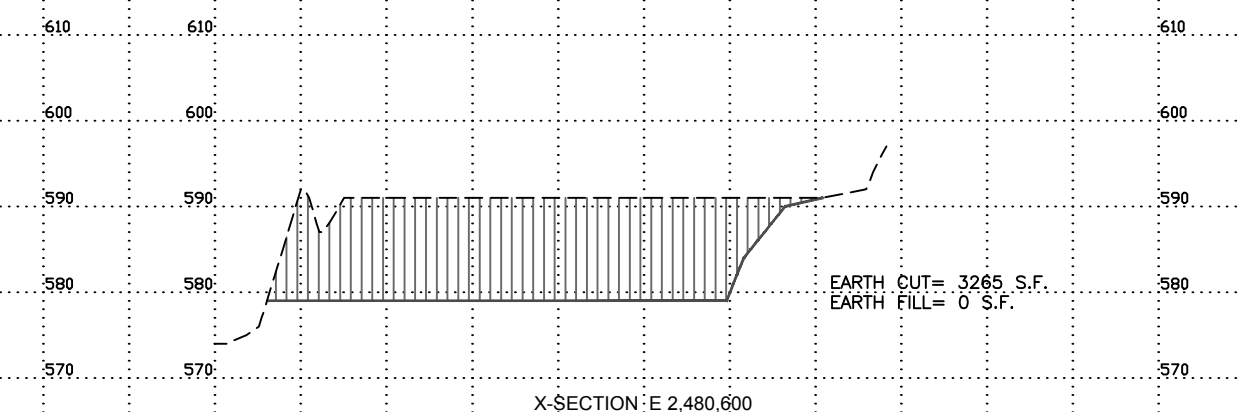
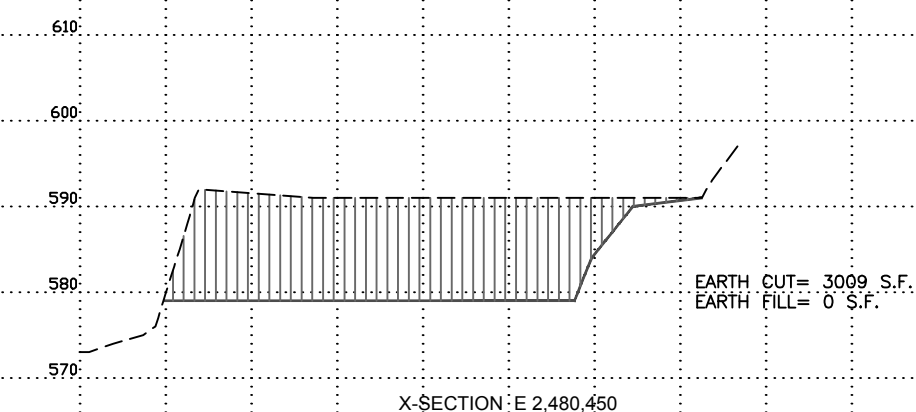
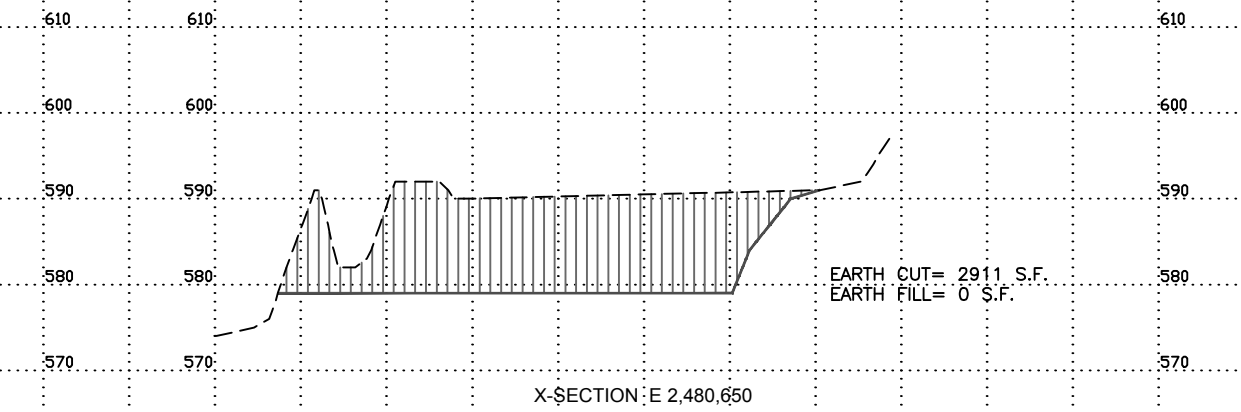
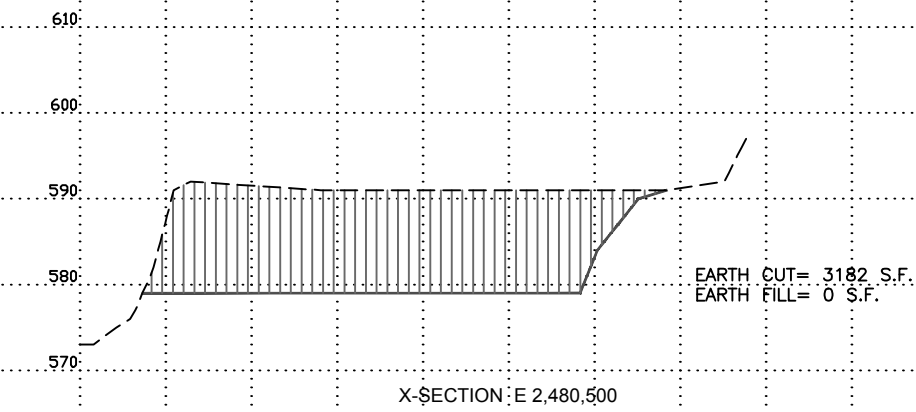
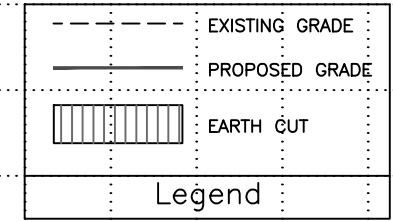


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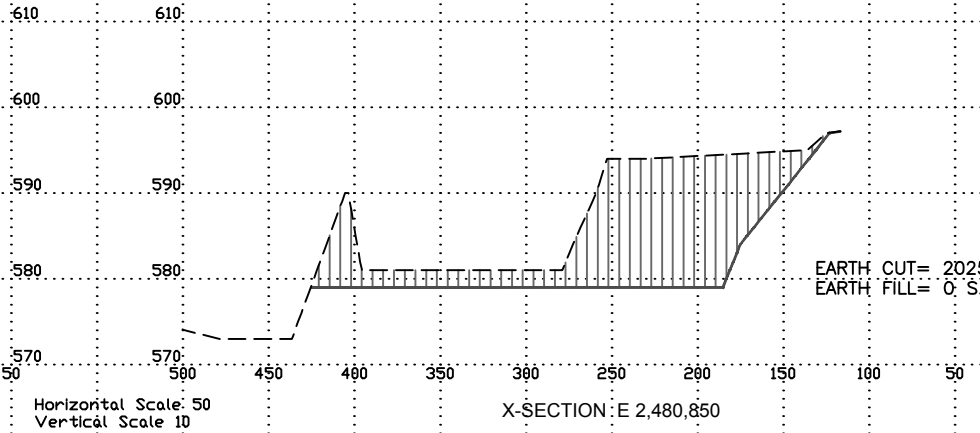
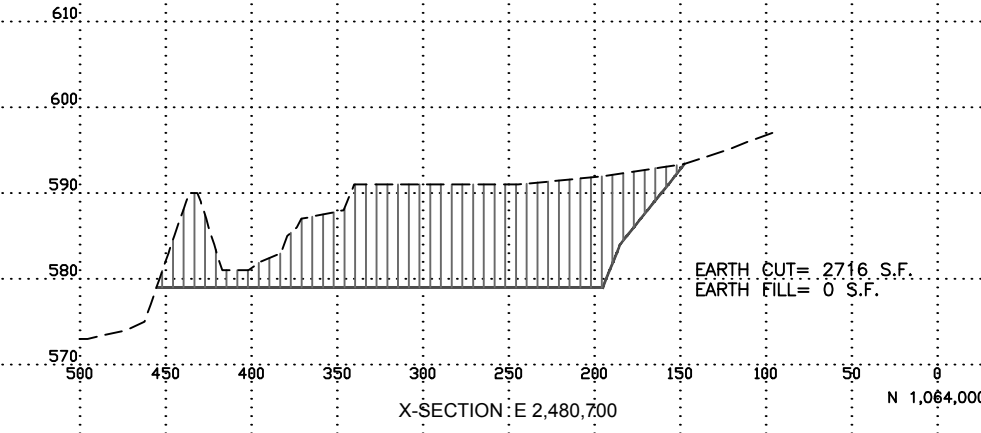
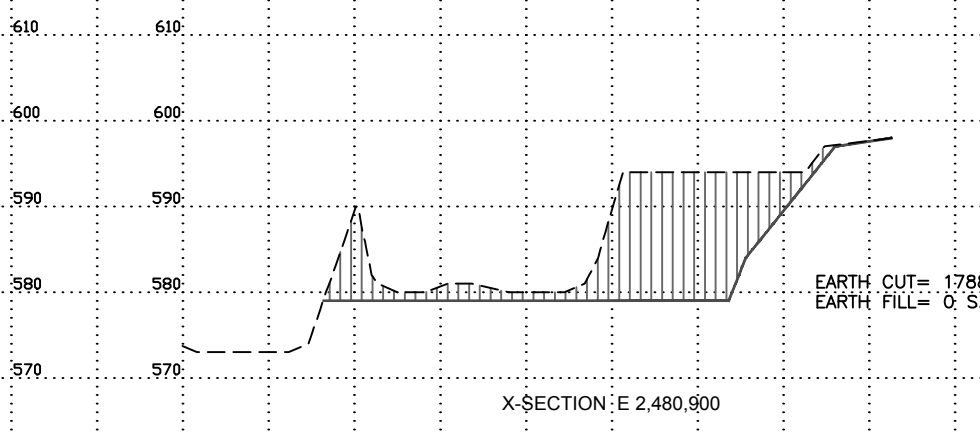
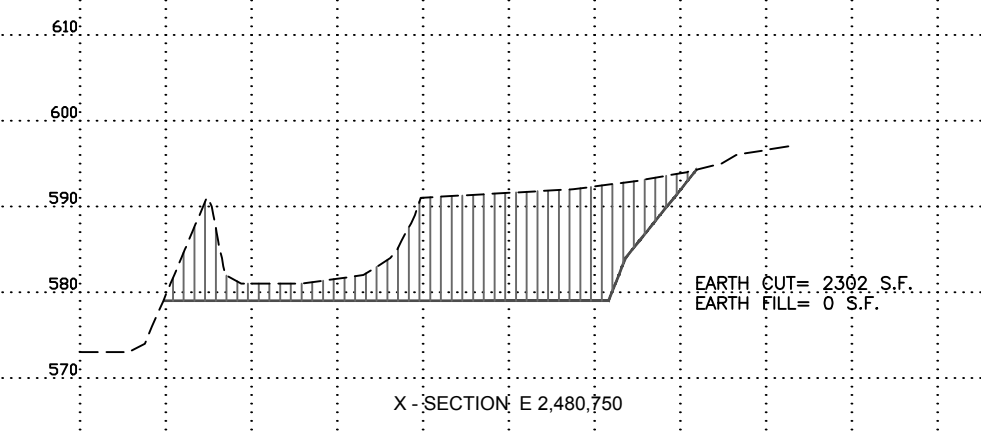
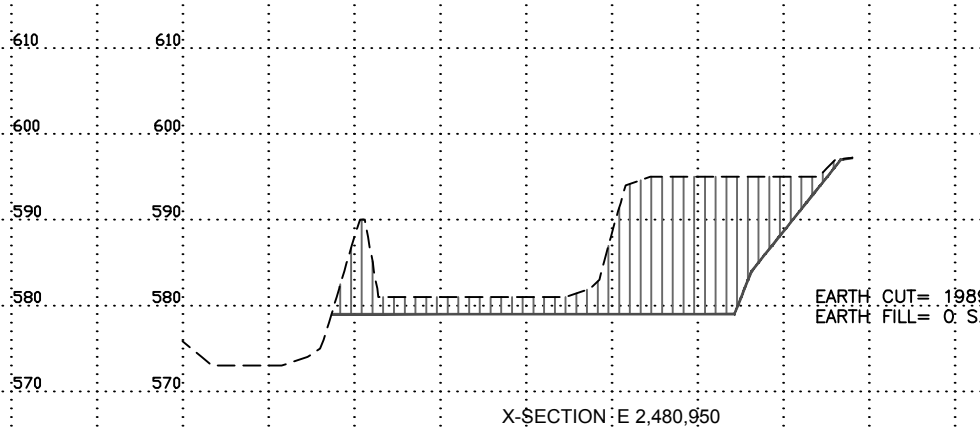
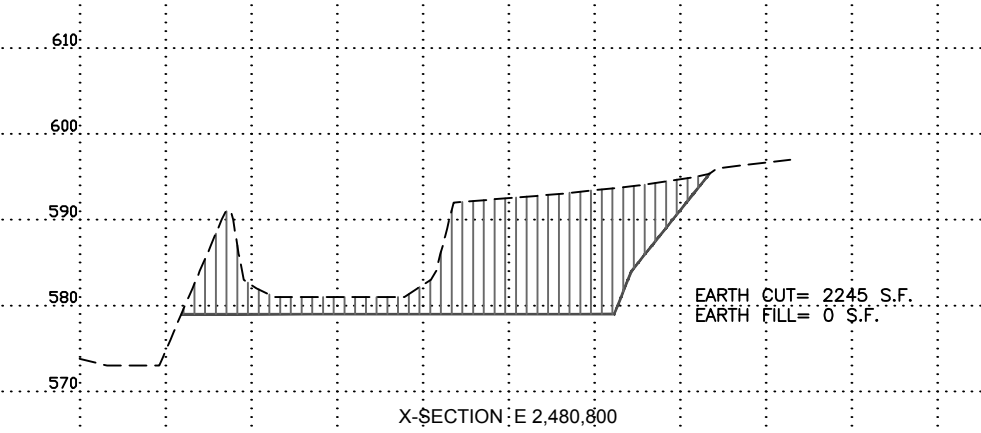
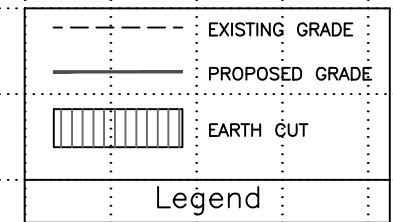


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