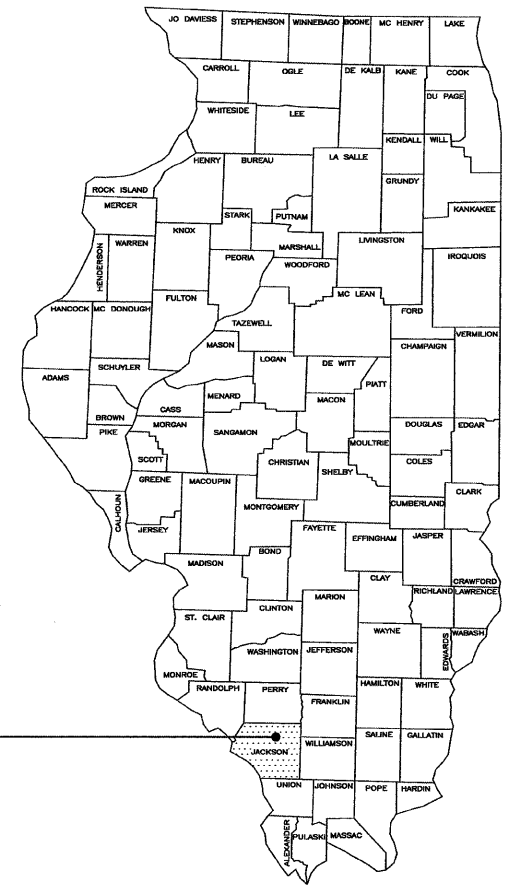


State of Illinois
Department of Natural Resources
Office of Mines and Minerals
Division of Abandoned Mined Lands

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

Vergennes Township South
Reclamation Project
AML-GJkE-0609
Jackson County
1LR



Vergennes Township South
Jackson County

PRE-BID MEETING


A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT AT 10:00 A.M. THURSDAY, FEBRUARY 21, 2008. ALL INTERESTED POTENTIAL BIDDERS ARE TO MEET AT THE PROJECT NORTH SITE ACCESS, ALONG HALLIDAYBORO RD. THE PROJECT NORTH SITE ACCESS CAN BE REACHED FROM U.S. 51, BY TURNING WEST ON TRUAX-TRAEER RD., FOR HALF OF MILE, THEN NORTH ONTO MARTIE RD., FOR APPROXIMATELY ONE MILE, TURNING WEST ONTO HALLIDAYBORO RD. FOR APPROXIMATELY ONE MILE.

SCHEDULE OF DRAWINGS:

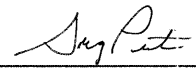
- 1. Cover Sheet
- 2. Summary of Quantities/General Notes/Location Map
- 3. Site Layout/Survey Control Point Data
- 4.-10. Existing Conditions
- 11.-17. Proposed Conditions
- 18.-42. Cross Sections
- 43. Details

Prepared By IDNR Staff

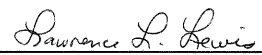
Approved for Bidding:


 Joseph R. Angleton, Director
 Office of Mines and Minerals

Approved By:


 J. Greg Pinto, Interim 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
			North	South	Total		
1	Special Clearing	201	0.4	0.6	1	L.S.	
2	Earth Excavation	202	68,017	124,879	192,896	C.Y.	Compaction per Section 205
3	Mine Refuse Excavation	202	59,758	92,357	152,115	C.Y.	Compaction per Section 205
4	Seeding	250	27.0	50.0	77.0	Acre	
5	Agricultural Ground Limestone	250	1,080	2,000	3,080	Ton	40 Tons/Acre
6	Nitrogen Fertilizer Nutrient	250	5,400	10,000	15,400	Pound	See Schedule Below
7	Phosphorus Fertilizer Nutrient	250	2,700	5,000	7,700	Pound	
8	Potassium Fertilizer Nutrient	250	5,400	10,000	15,400	Pound	
9	Mulch Method 2, Procedure 1	IDOT 251	27.0	50.0	77.0	Acre	2 Tons/Acre
10	Mine Refuse Treatment - Limestone	255	5,400	10,000	15,400	Ton	200 Tons/Acre
11	Mowing	258	27.0	50.0	77.0	Acre	
12	Perimeter Erosion Barrier	IDOT 280	875	550	1,425	Foot	Silt Fence Required IDOT Standard 280001-03
13	Inlet and Pipe Protection	IDOT 280	0	1	1	Each	Silt Fence Required IDOT Standard 280001-03
14	Stone Riprap, A-3	IDOT 281	20	0	20	Ton	
15	Special Excelsior Blanket	286	8,805	19,253	28,058	S.Y.	8 Feet Wide Strips
16	Aggregate Surface Course, Type B, CA-6	IDOT 402	2,184	2,632	4,816	Ton	
17	Removal of Existing Structures	501	0.5	0.5	1	L.S.	
18	Pipe Culvert 12", PE w/Smooth Interior, Type 1	IDOT 542	95	0	95	Foot	
19	Pipe Culvert 18", PE w/Smooth Interior, Type 1	IDOT 542	50	0	50	Foot	
20	Pipe Culvert 36", PE w/Smooth Interior, Type 1	IDOT 542	0	80	80	Foot	Material & Delivery Only See Note #4 Sheet 3
21	Metal End Section, 42" Diameter	IDOT 542	0	2	2	Each	Material & Delivery Only See Note #4 Sheet 3
22	Adjusting Water Service Lines	IDOT 563	1,345	0	1,345	Foot	PVC Pipe, 2" Dia., Schedule 40
23	French Drains, Chert, CA-1	IDOT 601	0	54	54	Ton	
24	Geotechnical Fabric For French Drains	IDOT 601	0	174	174	S.Y.	
25	Dewatering Impoundments-Impoundment #1	614	1	0	1	L.S.	
26	Dewatering Impoundments-Impoundment #2	614	0	1	1	L.S.	
25	Dewatering Impoundments-Impoundment #3	614	0	1	1	L.S.	
26	Mobilization (Max. of 6 % of Bid)	671	0.5	0.5	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 removed shall be disposed of onsite per Section 201 of the Special Provisions.

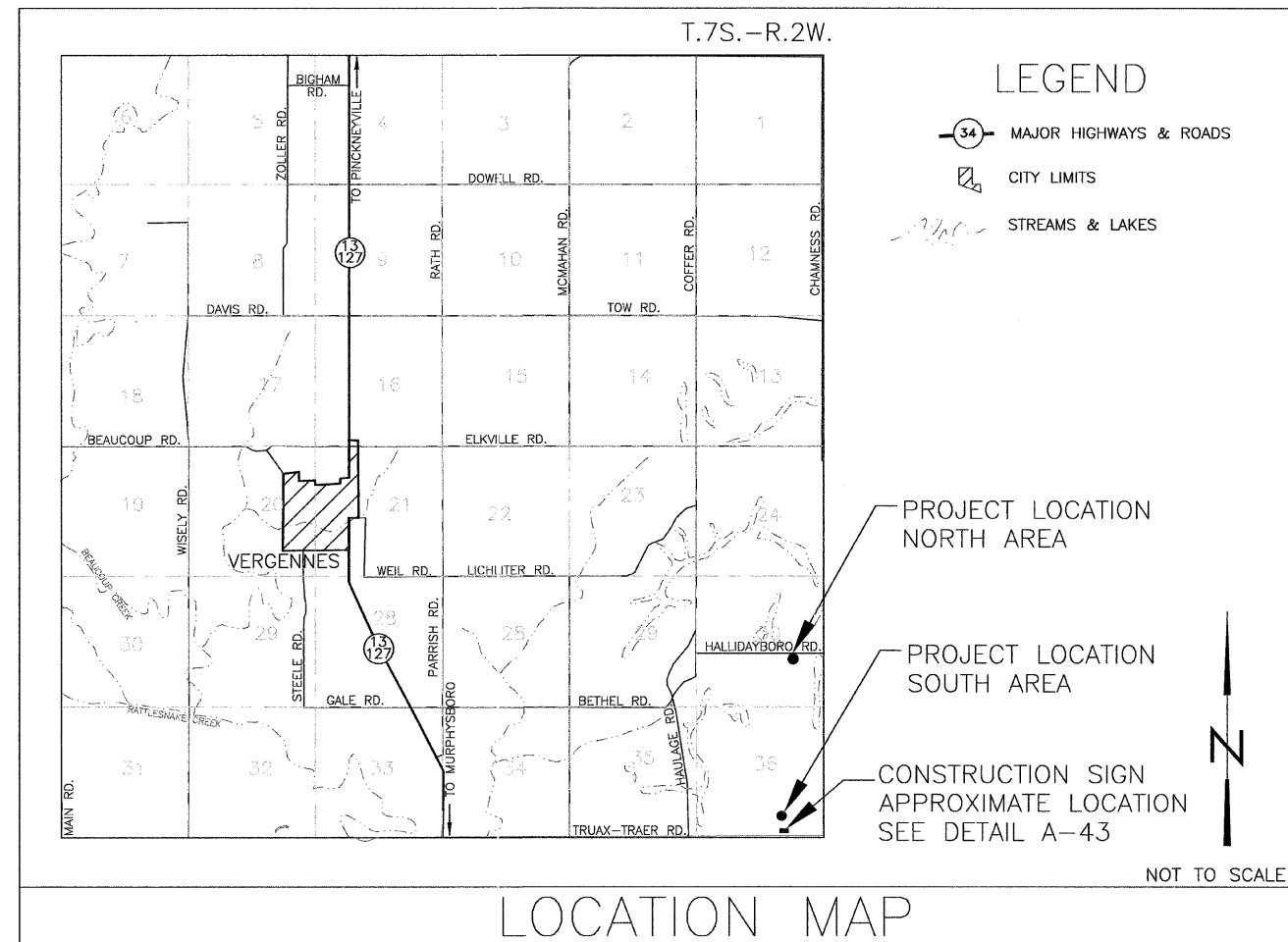
ACID WATER TREATMENT-If acid mine drainage treatment is determined necessary by the engineer, and not otherwise specified in the plans, any water treatment will be paid for in accordance with Article 109.04 of the Standard Specifications.

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.

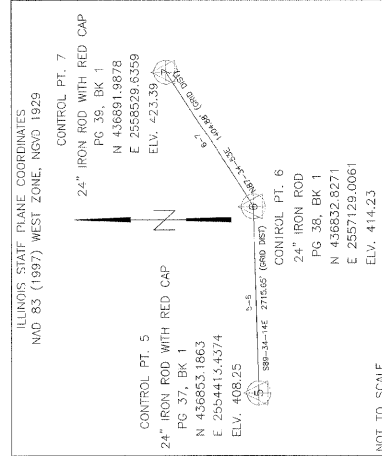
MULCHING-Within 24 hours from the time seeding has been performed, the seeded area shall be given a covering of mulch at the rates specified in the plans. The mulch is to be anchored into the soil in accordance with the requirements for method 2, procedure 2 of Article 251.03 of the Standard Specifications. 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 33 inches of soil.

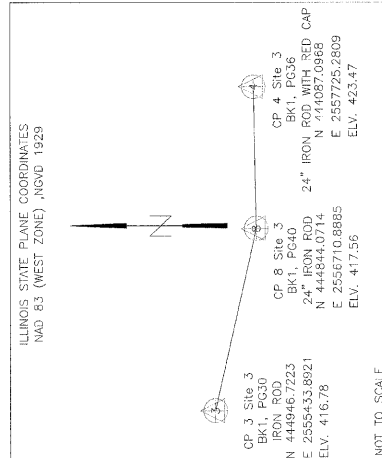


Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing

ITEM (unit)	FALL 2008 AUG. 20 -- SEPT. 30		SPRING 2009 APR. 20 - MAY 15		SPRING 2009 MAY 15 - JUN. 15		TOTAL QUANTITY
	North	South	North	South	North	South	
SEEDING (acres)	27.0	50.0					77.0
AGRICULTURAL GROUND LIMESTONE (tons)	1,080 40 T/A	2000 40 T/A			Actual Date to be Approved by Engineer		3,080
NITROGEN FERTILIZER NUTRIENT (pounds)	2,700 100 Lb./A	5,000 100 Lb./A	2,700 100 Lb./A	5,000 100 Lb./A			15,400
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	2,700 100 Lb./A	5,000 100 Lb./A					7,700
POTASSIUM FERTILIZER NUTRIENT (pounds)	5,400 200 Lb./A	10,000 200 Lb./A					15,400
MULCH, METHOD 2 PROCEDURE 1 (acre)	27.0 2 T/A	50.0 2 T/A					77.0
MOWING (acres)					27.0	50.0	77.0



TRAVERSE LAYOUT DATA

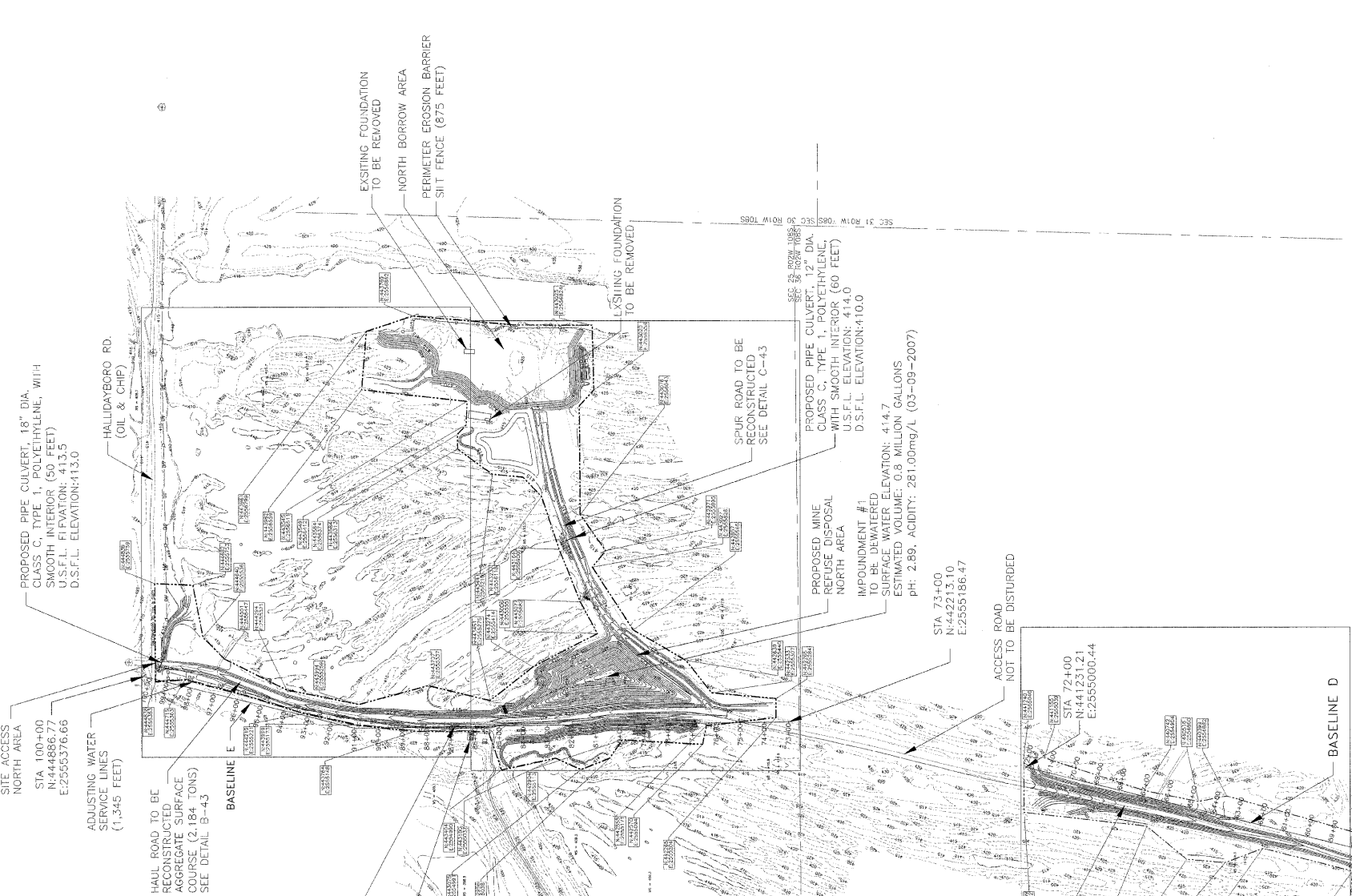
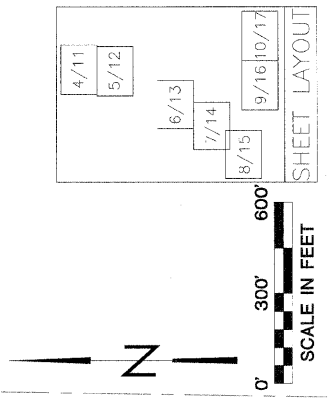


TRAVERSE LAYOUT DATA

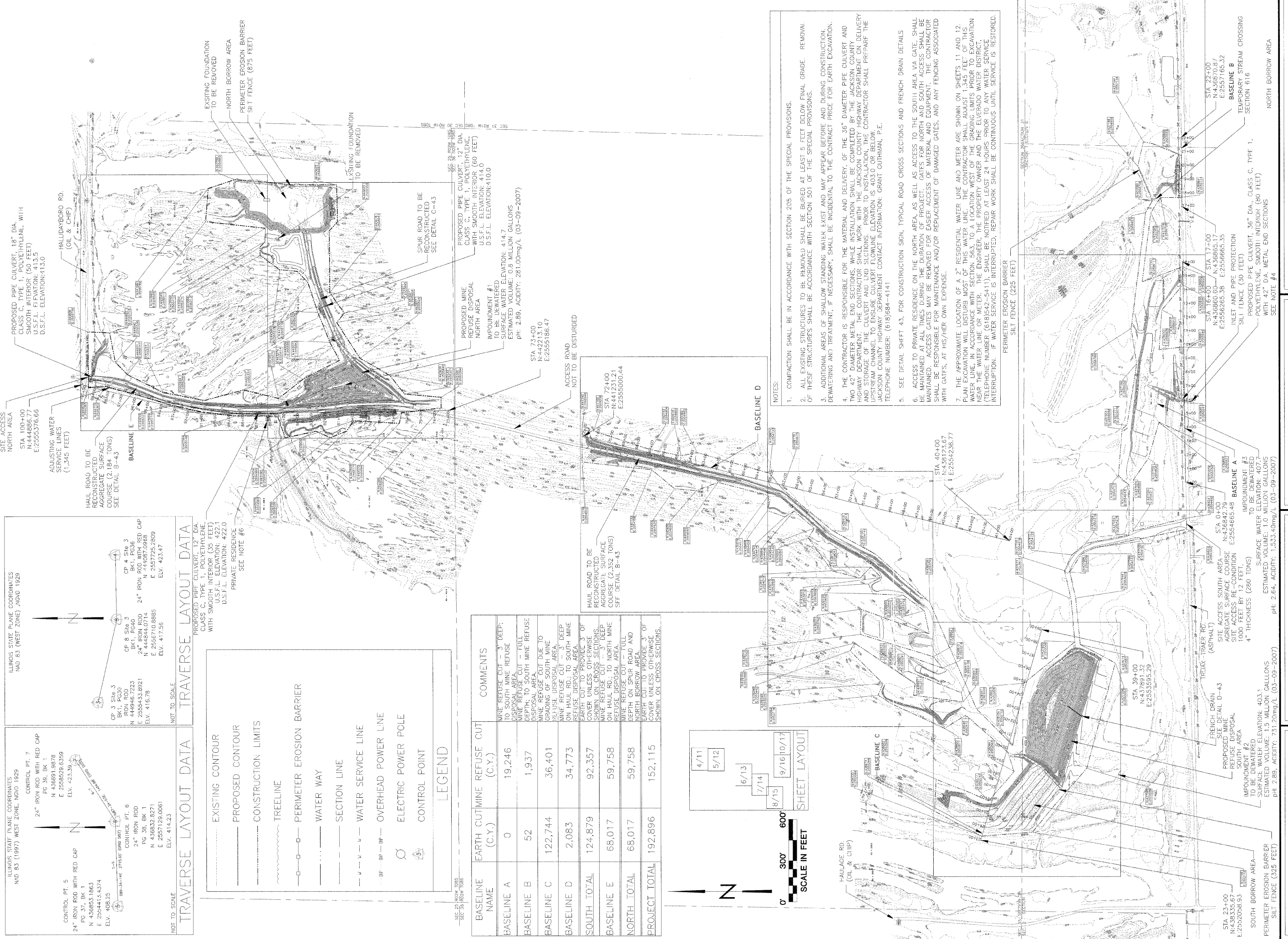
LEGEND

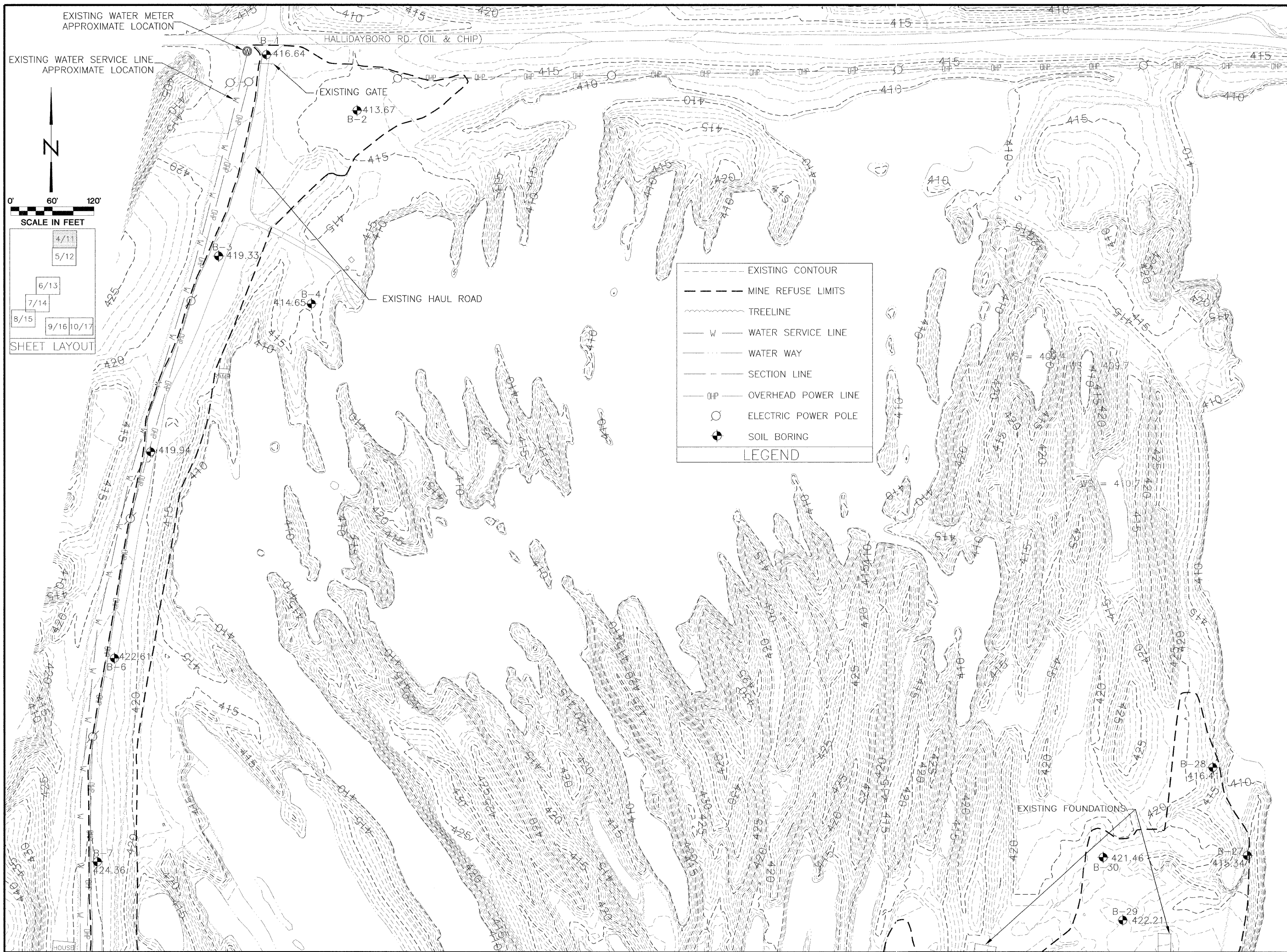
- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONSTRUCTION LIMITS
- TREELINE
- PERIMETER EROSION BARRIER
- WATER WAY
- SECTION LINE
- WATER SERVICE LINE
- OVERHEAD POWER LINE
- ELECTRIC POWER POLE
- CONTROL POINT

BASELINE NAME	EARTH CUT/MINE REFUSE CUT (C.Y.)	COMMENTS
BASELINE A	0	MINE REFUSE CUT - 3' DEEP; TO SOUTH MINE REFUSE DISPOSAL AREA
BASELINE B	52	MINE REFUSE CUT - FULL DEPTH TO SOUTH MINE REFUSE DISPOSAL AREA
BASELINE C	122,744	MINE REFUSE CUT DUE TO GRADING OF SOUTH MINE REFUSE DISPOSAL AREA
BASELINE D	2,083	MINE REFUSE CUT - 3' DEEP ON HAUL RD.; TO SOUTH MINE REFUSE DISPOSAL AREA
SOUTH TOTAL	124,879	EARTH CUT TO PROVIDE 3' OF COVER UNLESS OTHERWISE SHOWN
BASELINE E	68,017	MINE REFUSE CUT - 3' DEEP ON HAUL RD. TO NORTH MINE REFUSE DISPOSAL AREA
NORTH TOTAL	68,017	MINE REFUSE CUT - FULL DEPTH ON SPUR ROAD AND NORTH BORROW AREA
PROJECT TOTAL	192,896	EARTH CUT TO PROVIDE 3' OF COVER UNLESS OTHERWISE SHOWN ON CROSS SECTIONS.



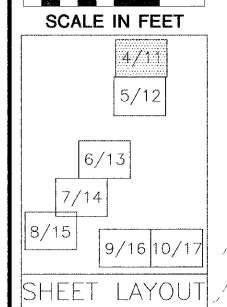
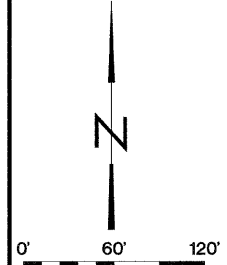
- NOTES:
1. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS.
 2. ALL EXISTING STRUCTURES TO BE REMOVED SHALL BE BURIED AT LEAST 5 FEET BELOW FINAL GRADE. REMOVAL OF THESE STRUCTURES SHALL BE ACCORDANCE WITH SECTION 501 OF THE SPECIAL PROVISIONS.
 3. ADDITIONAL AREAS OF SHALLOW STANDING WATER EXIST AND MAY APPEAR BEFORE AND DURING CONSTRUCTION. DEWATERING AND TREATMENT, IF NECESSARY, SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR EARTH EXCAVATION.
 4. THE CONTRACTOR IS RESPONSIBLE FOR THE MATERIAL AND DELIVERY OF THE 36" DIAMETER PIPE CULVERT AND TWO 42" DIAMETER METAL END SECTIONS, WHILE INSTALLATION SHALL BE COMPLETED BY THE JACKSON COUNTY HIGHWAY DEPARTMENT. THE CONTRACTOR SHALL WORK WITH THE JACKSON COUNTY HIGHWAY DEPARTMENT ON DELIVERY AND STORAGE OF THE CULVERT AND END SECTIONS. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL PREPARE THE UPSTREAM CHANNEL TO ENSURE CULVERT FLOWLINE ELEVATION IS 403.0 OR BELOW. JACKSON COUNTY HIGHWAY DEPARTMENT CONTACT INFORMATION: GRANT GUTTMAN, P.E. TELEPHONE NUMBER: (618)684-4141
 5. SEE DETAIL SHEET 43, FOR CONSTRUCTION SIGN, TYPICAL ROAD CROSS SECTIONS AND FRENCH DRAIN DETAILS
 6. ACCESS TO PRIVATE RESIDENCE ON THE NORTH AREA, AS WELL AS ACCESS TO THE SOUTH AREA VIA GATE, SHALL BE MAINTAINED AT ALL TIMES DURING THE DURATION OF PROJECT. GATES FOR NORTH AND SOUTH ACCESS SHALL BE MAINTAINED. ACCESS GATES MAY BE REMOVED FOR EASIER ACCESS OF MATERIAL AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND/OR REPLACEMENT OF DAMAGED GATES, AND ANY FENCING ASSOCIATED WITH GATES, AT HIS/HER OWN EXPENSE.
 7. THE APPROXIMATE LOCATION OF A 2" RESIDENTIAL WATER LINE AND METER ARE SHOWN ON SHEETS 11 AND 12. PLAN EXCAVATION WILL DISTURB MOST OF THIS WATER LINE. THE CONTRACTOR SHALL ADJUST 1.345 FEET OF THIS WATER LINE, IN ACCORDANCE WITH SECTION 585, TO A LOCATION WEST OF THE GRADING LIMITS PRIOR TO EXCAVATION NEAR THE WATER LINE OR METER. THE ENGINEER, THE PROPERTY OWNER, AND THE JACKSON COUNTY HIGHWAY DEPARTMENT (TELEPHONE NUMBER: (618)684-4141), WILL BE NOTIFIED AND ADVISED 24 HOURS PRIOR TO ANY WATER SERVICE INTERRUPTION. IF WATER SERVICE IS INTERRUPTED, REPAIR WORK SHALL BE CONTINUOUS UNTIL SERVICE IS RESTORED.





EXISTING WATER METER
APPROXIMATE LOCATION

EXISTING WATER SERVICE LINE
APPROXIMATE LOCATION



HALLIDAYBORO RD. (OIL & CHIP)

EXISTING GATE

EXISTING HAUL ROAD

EXISTING FOUNDATIONS

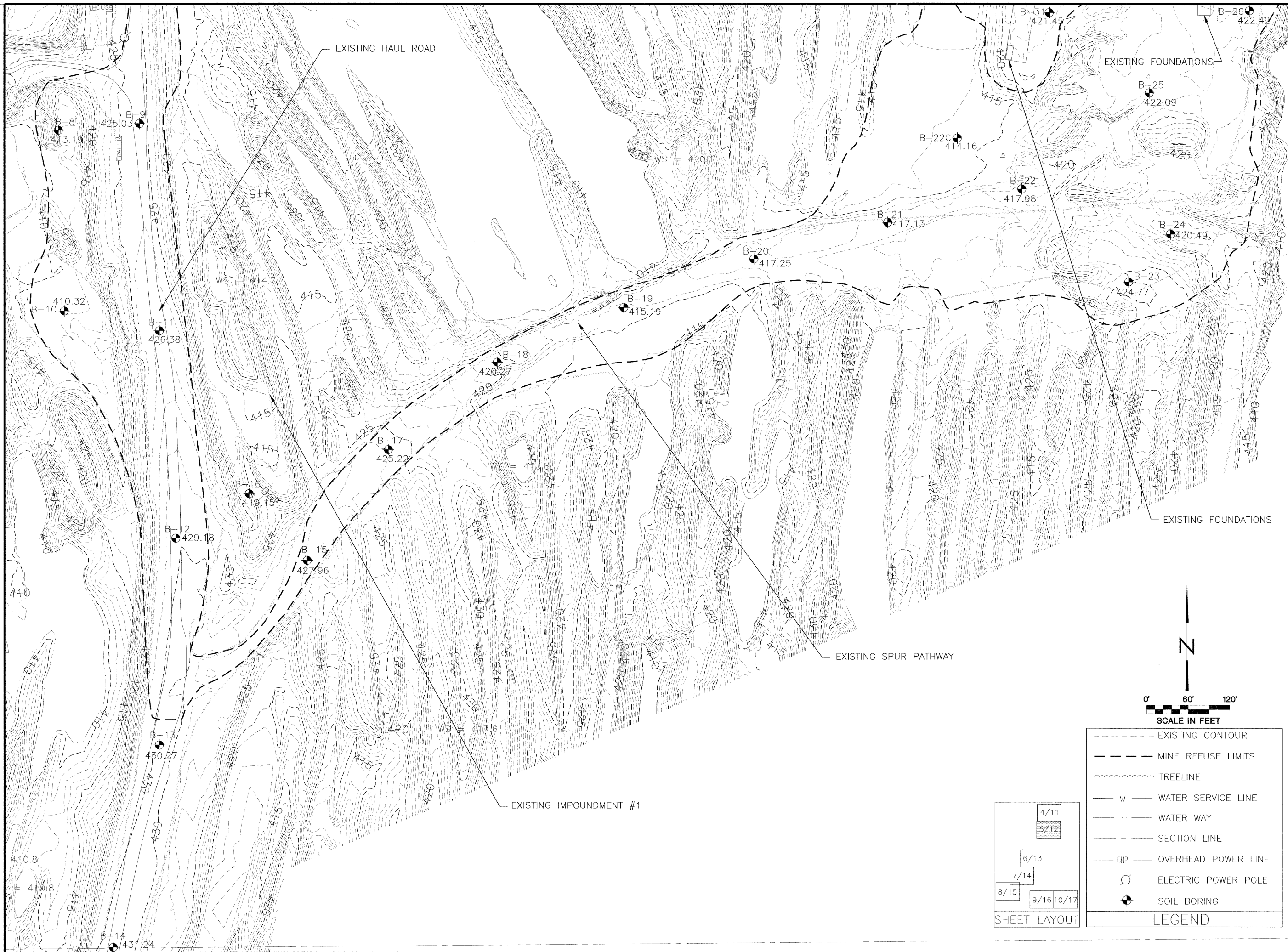
- EXISTING CONTOUR
 - - - MINE REFUSE LIMITS
 - ~~~~~ TREELINE
 - W — WATER SERVICE LINE
 - WATER WAY
 - - - SECTION LINE
 - OHP — OVERHEAD POWER LINE
 - ELECTRIC POWER POLE
 - ◆ SOIL BORING
- LEGEND

Existing
Conditions
Sheet 4 of 43

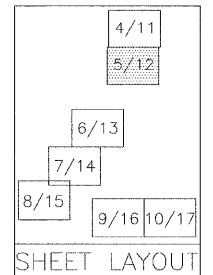
Drawn By: OMA Date: 01-30-08
Checked By: _____

Vergennes Township South
Reclamation Project
AML-GJkE-0609
Jackson County

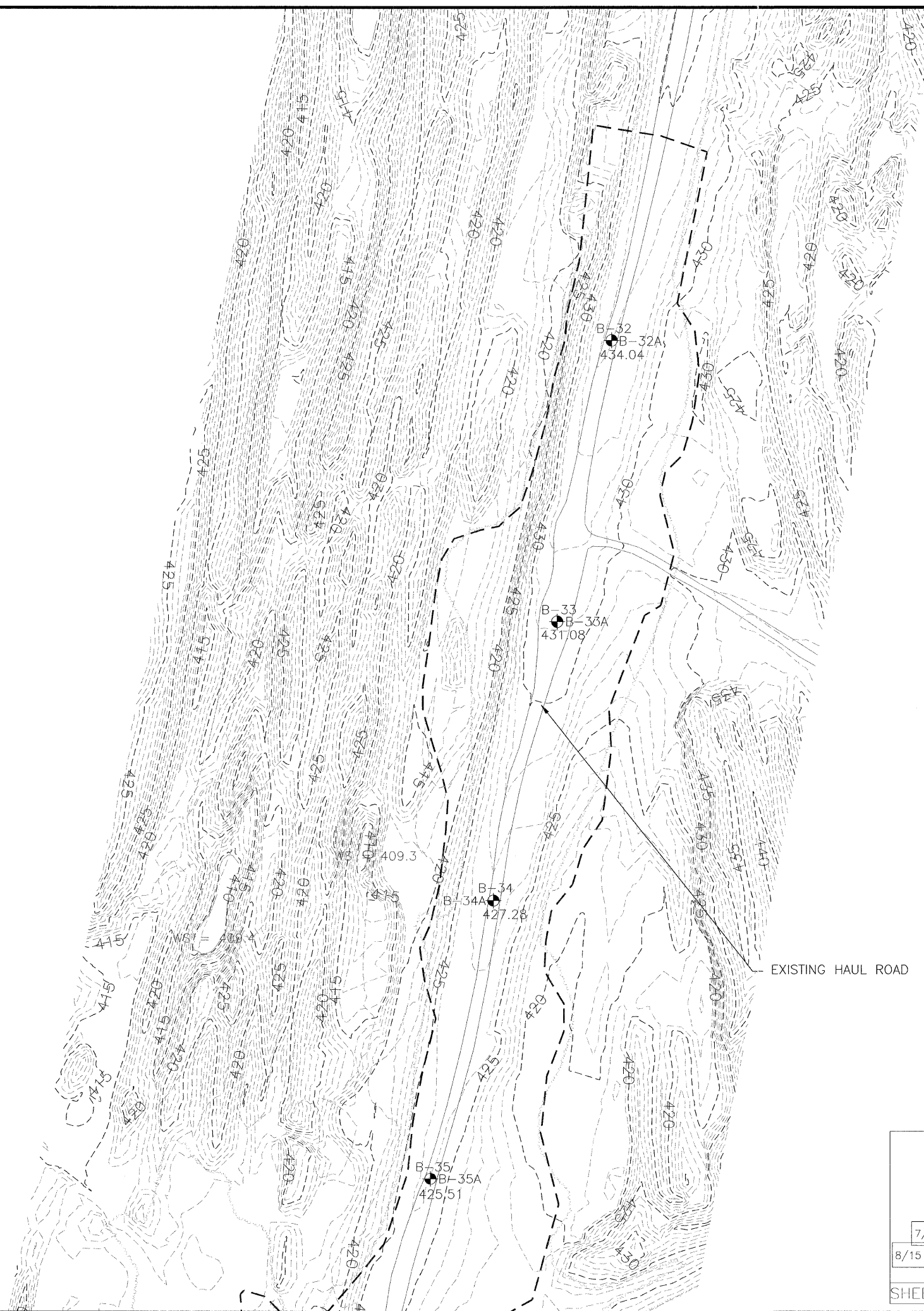
State of Illinois
Department of Natural Resources



Drawn By: OMA
Checked By: _____
Date: 01-30-08

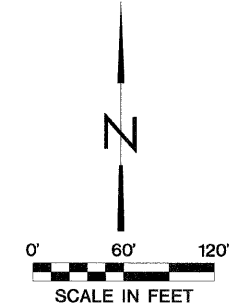


	EXISTING CONTOUR
	MINE REFUSE LIMITS
	TREELINE
	WATER SERVICE LINE
	WATER WAY
	SECTION LINE
	OVERHEAD POWER LINE
	ELECTRIC POWER POLE
	SOIL BORING



	4/11
	5/12
	6/13
7/14	
8/15	9/16 10/17

SHEET LAYOUT



---	EXISTING CONTOUR
- - -	MINE REFUSE LIMITS
~~~~~	TREELINE
— W —	WATER SERVICE LINE
---	WATER WAY
---	SECTION LINE
— OHP —	OVERHEAD POWER LINE
○	ELECTRIC POWER POLE
●	SOIL BORING

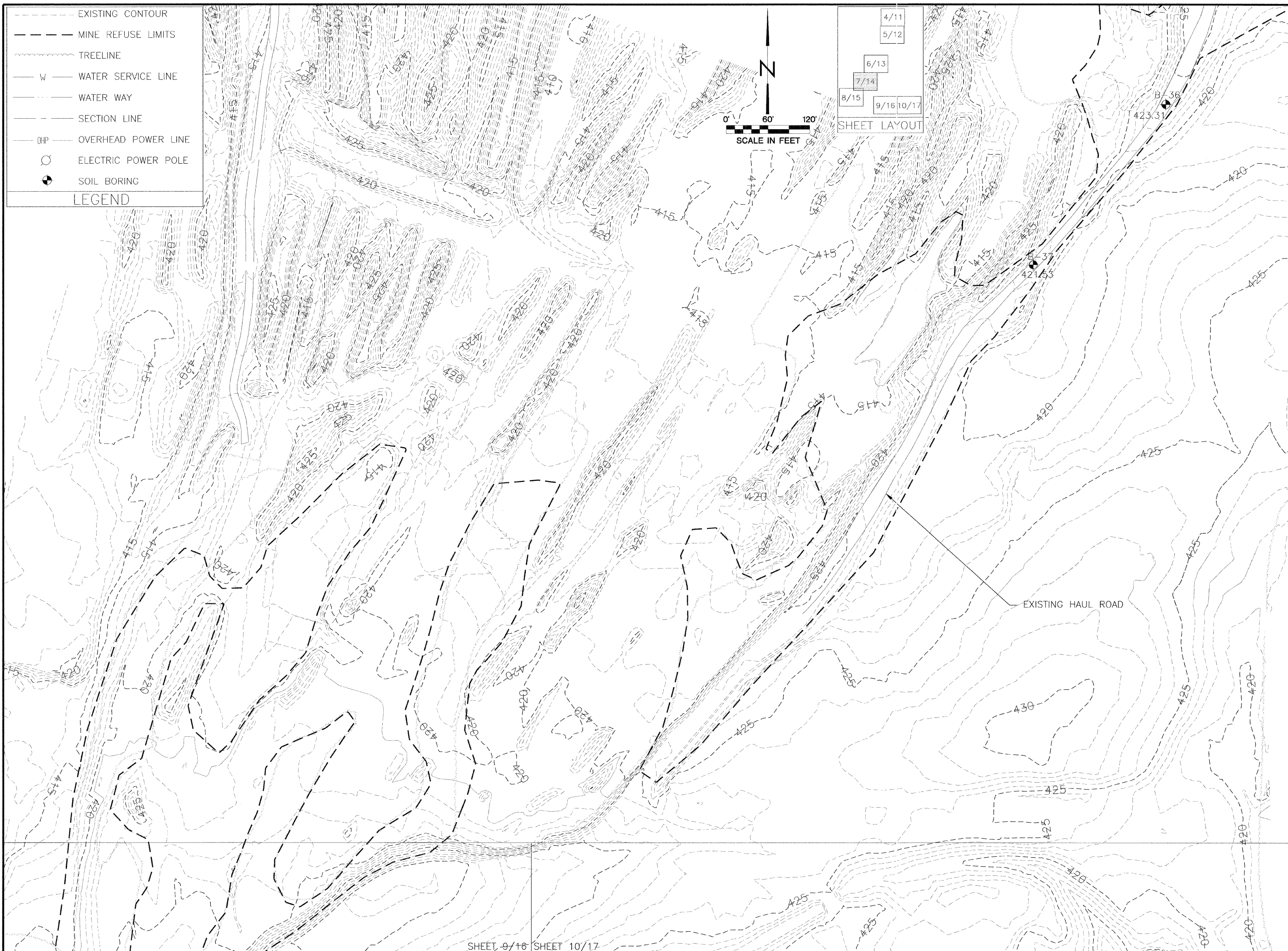
LEGEND

**Existing  
Conditions  
Sheet 6 of 43**

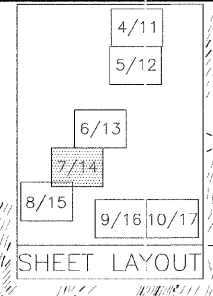
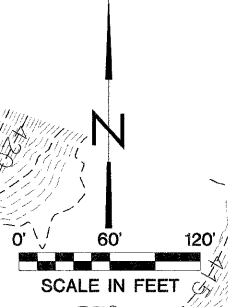
Drawn By: OMA Date: 01-31-08  
 Checked By: _____

**Vergennes Township South  
Reclamation Project  
AML-GJkE-0609  
Jackson County**

**State of Illinois  
Department of Natural Resources**



- EXISTING CONTOUR
  - - - MINE REFUSE LIMITS
  - ~~~~ TREELINE
  - W — WATER SERVICE LINE
  - WATER WAY
  - - - SECTION LINE
  - OHP — OVERHEAD POWER LINE
  - ELECTRIC POWER POLE
  - SOIL BORING
- LEGEND**



State of Illinois  
Department of Natural Resources

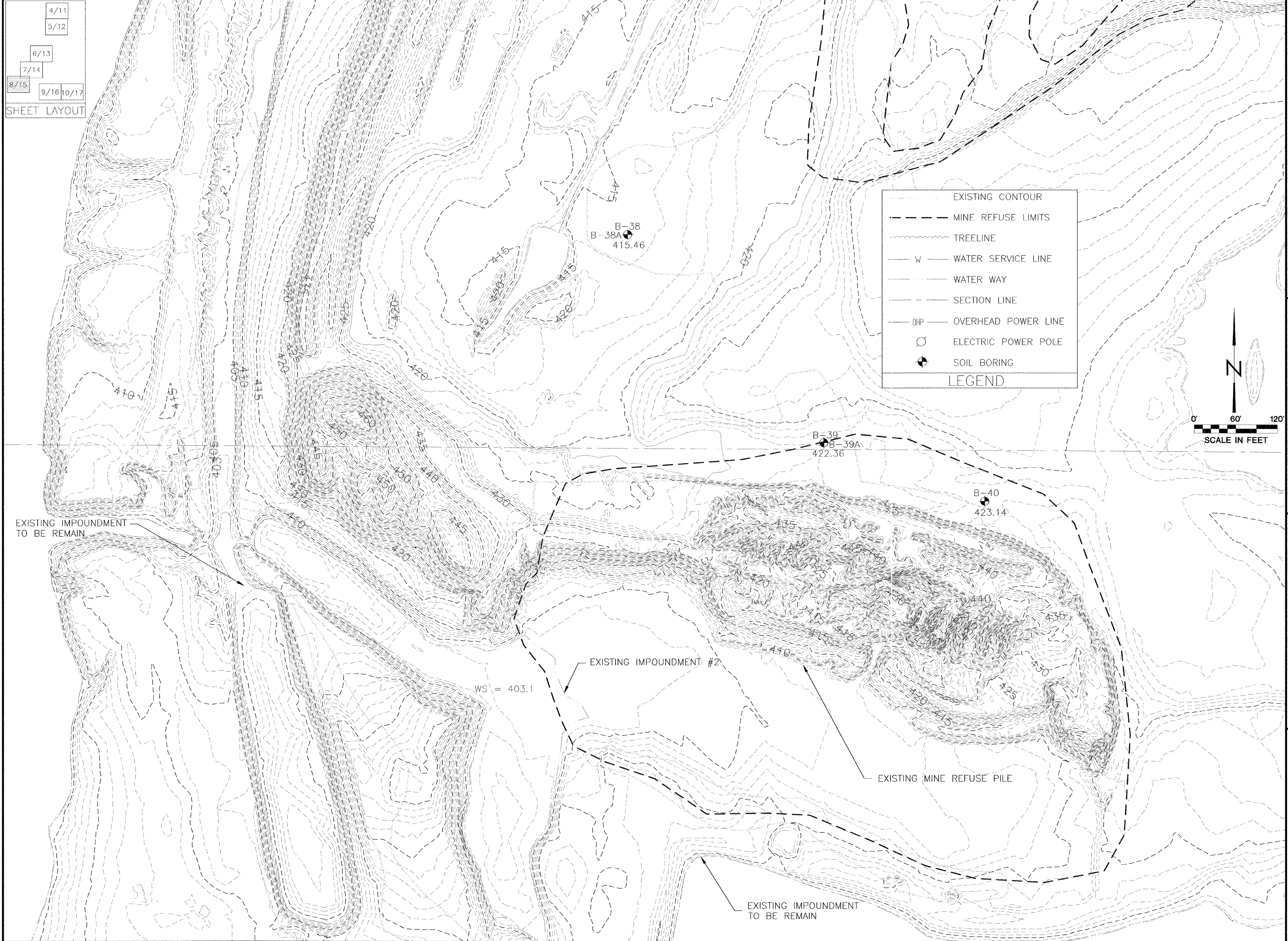
Vergennes Township South  
Reclamation Project  
AML-GJkE-0609  
Jackson County

Drawn By: OMA      Date: 01-31-08  
Checked By: _____

Existing  
Conditions  
Sheet 7 of 43

SHEET 9/16 SHEET 10/17

4/11  
5/12  
6/13  
7/14  
8/15  
9/16 10/17  
SHEET LAYOUT



State of Illinois  
Department of Natural Resources

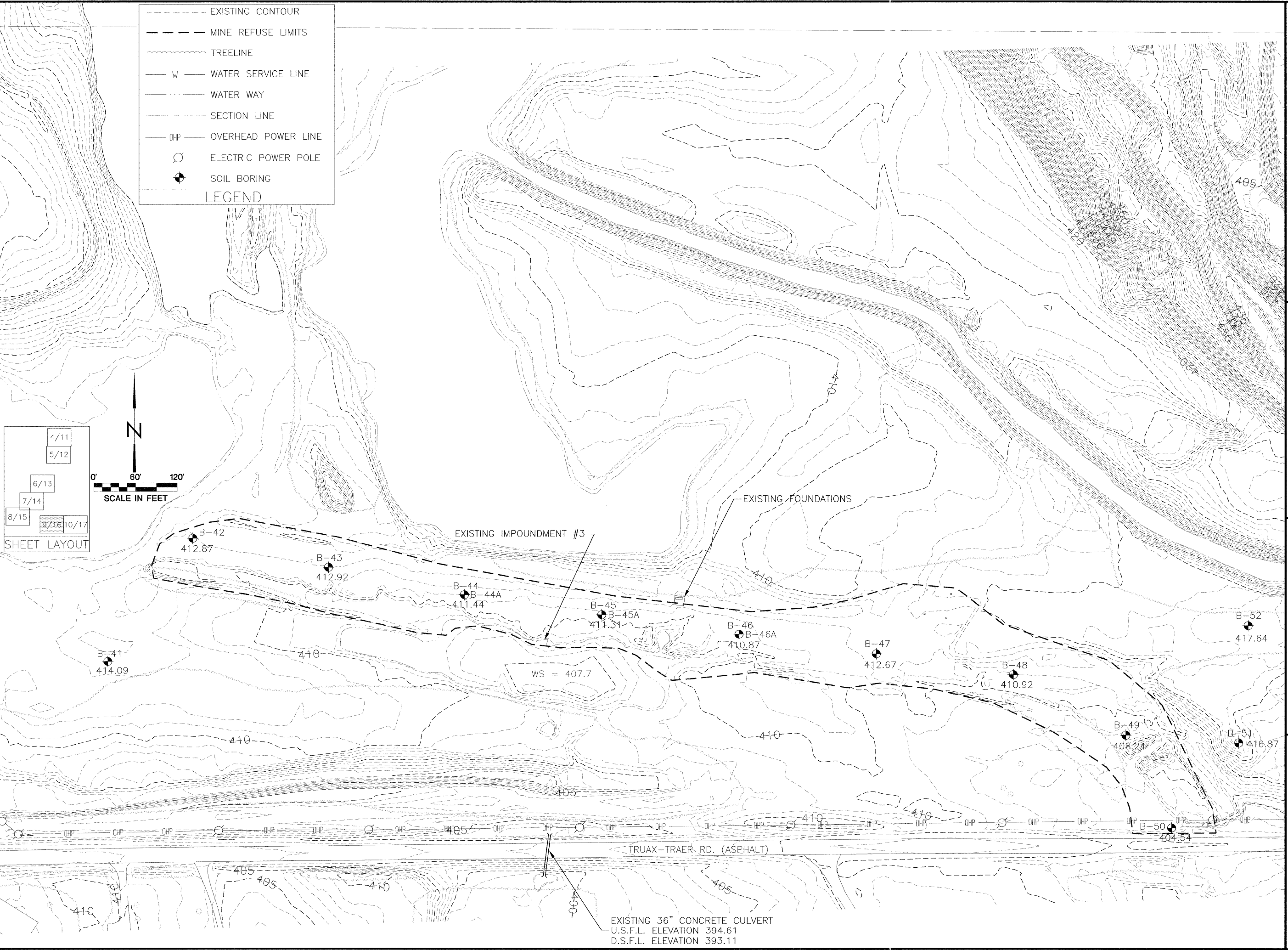
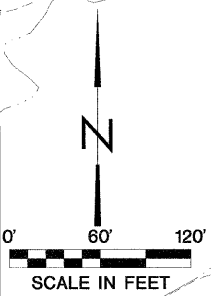
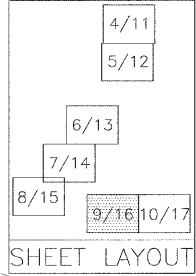
Vergennes Township South  
Reclamation Project  
AML-GJkE-0609  
Jackson County

Drawn By: OMA  
Date: 01-31-08  
Checked By:

Existing  
Conditions  
Sheet 8 of 43



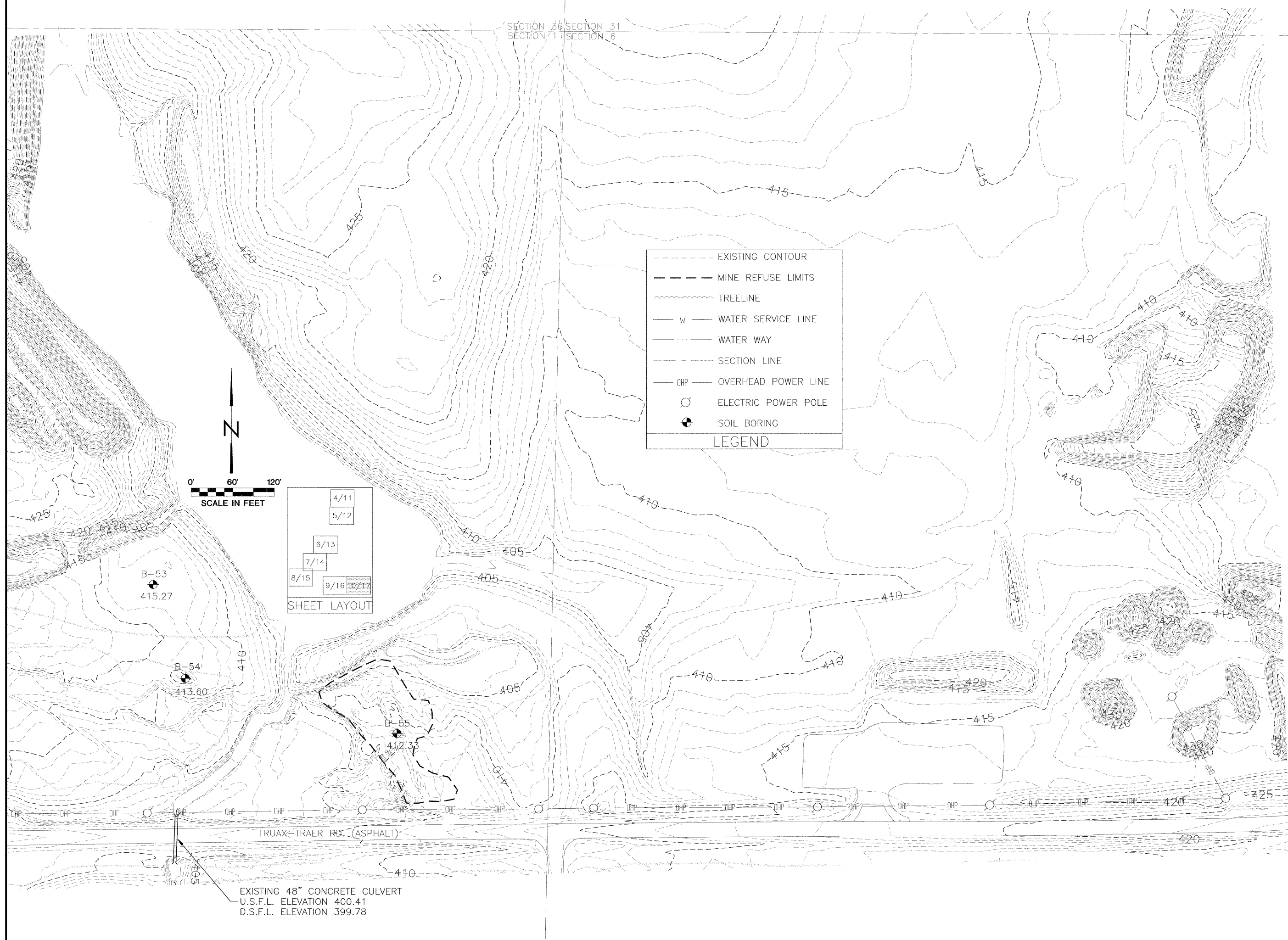
- EXISTING CONTOUR
  - - - MINE REFUSE LIMITS
  - ~~~~ TREELINE
  - W — WATER SERVICE LINE
  - WATER WAY
  - SECTION LINE
  - OHP — OVERHEAD POWER LINE
  - ELECTRIC POWER POLE
  - ⊕ SOIL BORING
- LEGEND



Drawn By: OMA Date: 01-30-08

Checked By: _____

SECTION 26 SECTION 31  
SECTION 1 SECTION 6



— — — — — EXISTING CONTOUR

- - - - - MINE REFUSE LIMITS

~~~~~ TREELINE

— W — WATER SERVICE LINE

— — — — — WATER WAY

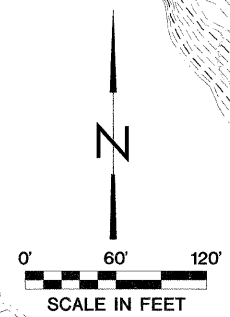
— — — — — SECTION LINE

— OHP — OVERHEAD POWER LINE

○ ELECTRIC POWER POLE

⊕ SOIL BORING

LEGEND



SHEET LAYOUT

| |
|-------|
| 4/11 |
| 5/12 |
| 6/13 |
| 7/14 |
| 8/15 |
| 9/16 |
| 10/17 |

B-53
415.27

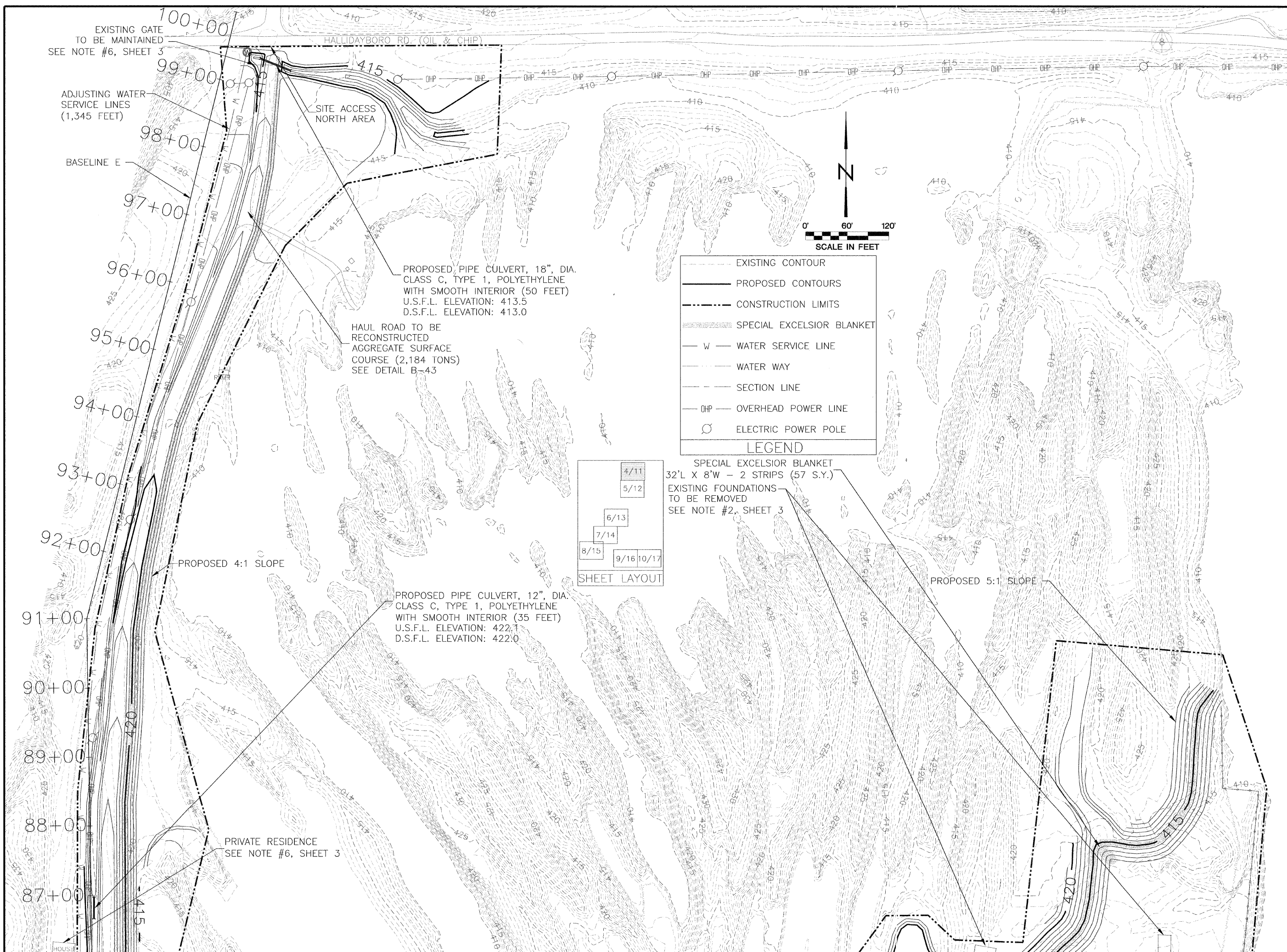
B-54
413.60

B-55
412.35

TRUAX-TRAEER RD. (ASPHALT)

EXISTING 48" CONCRETE CULVERT
U.S.F.L. ELEVATION 400.41
D.S.F.L. ELEVATION 399.78

Drawn By: OMA Date: 01-30-08
Checked By:



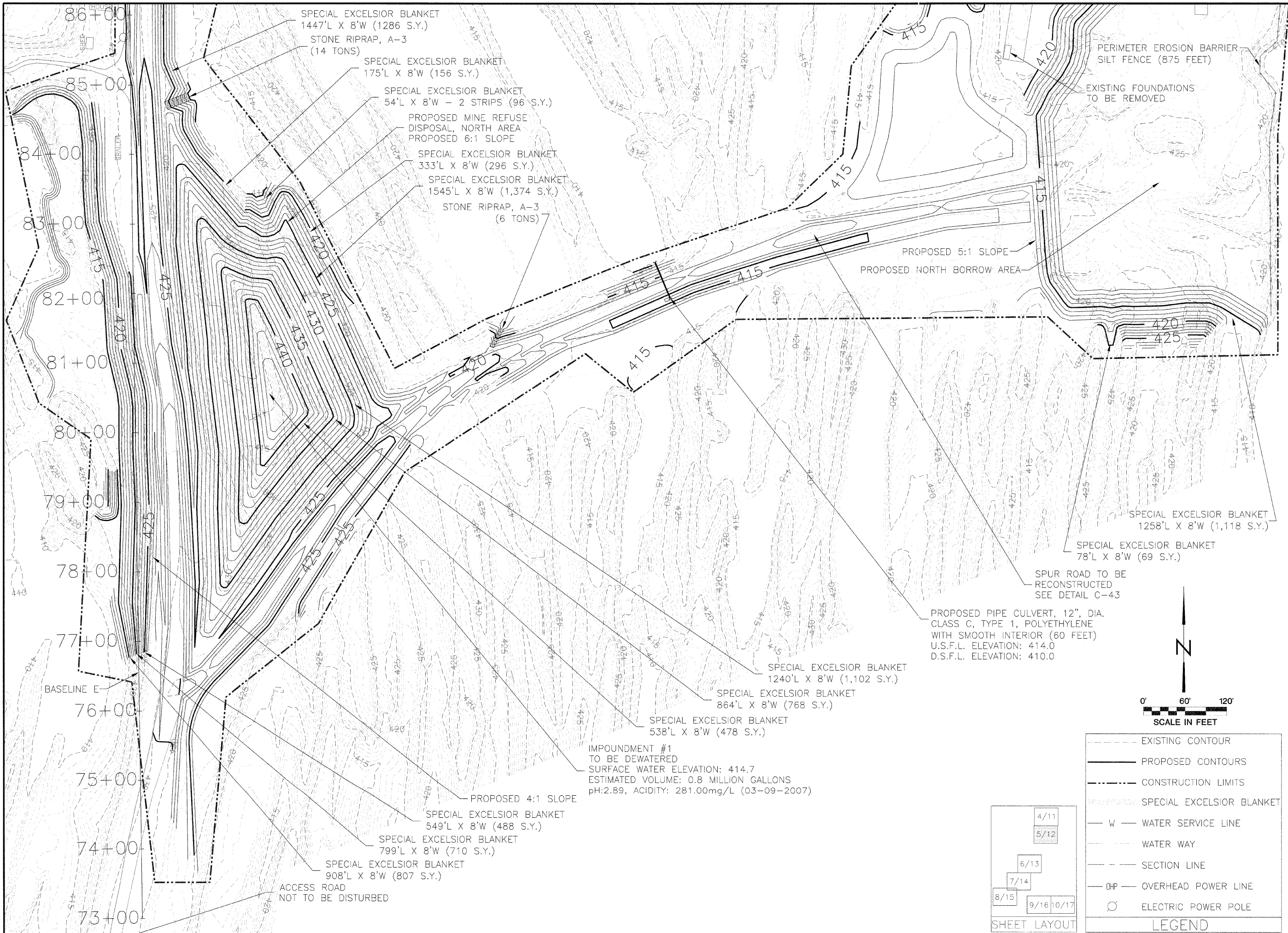
--- EXISTING CONTOUR
 — PROPOSED CONTOURS
 - - - CONSTRUCTION LIMITS
 [Hatched Box] SPECIAL EXCELSIOR BLANKET
 — W — WATER SERVICE LINE
 — WATER WAY
 - - - SECTION LINE
 — OHP — OVERHEAD POWER LINE
 ○ ELECTRIC POWER POLE

LEGEND

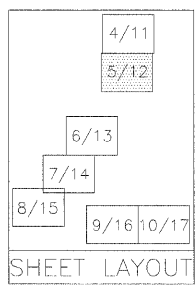
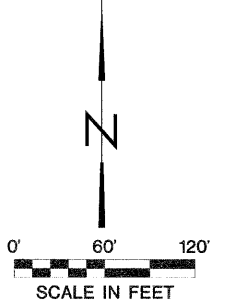
| |
|------------|
| 4/11 |
| 5/12 |
| 6/13 |
| 7/14 |
| 8/15 |
| 9/16 10/17 |

SHEET LAYOUT

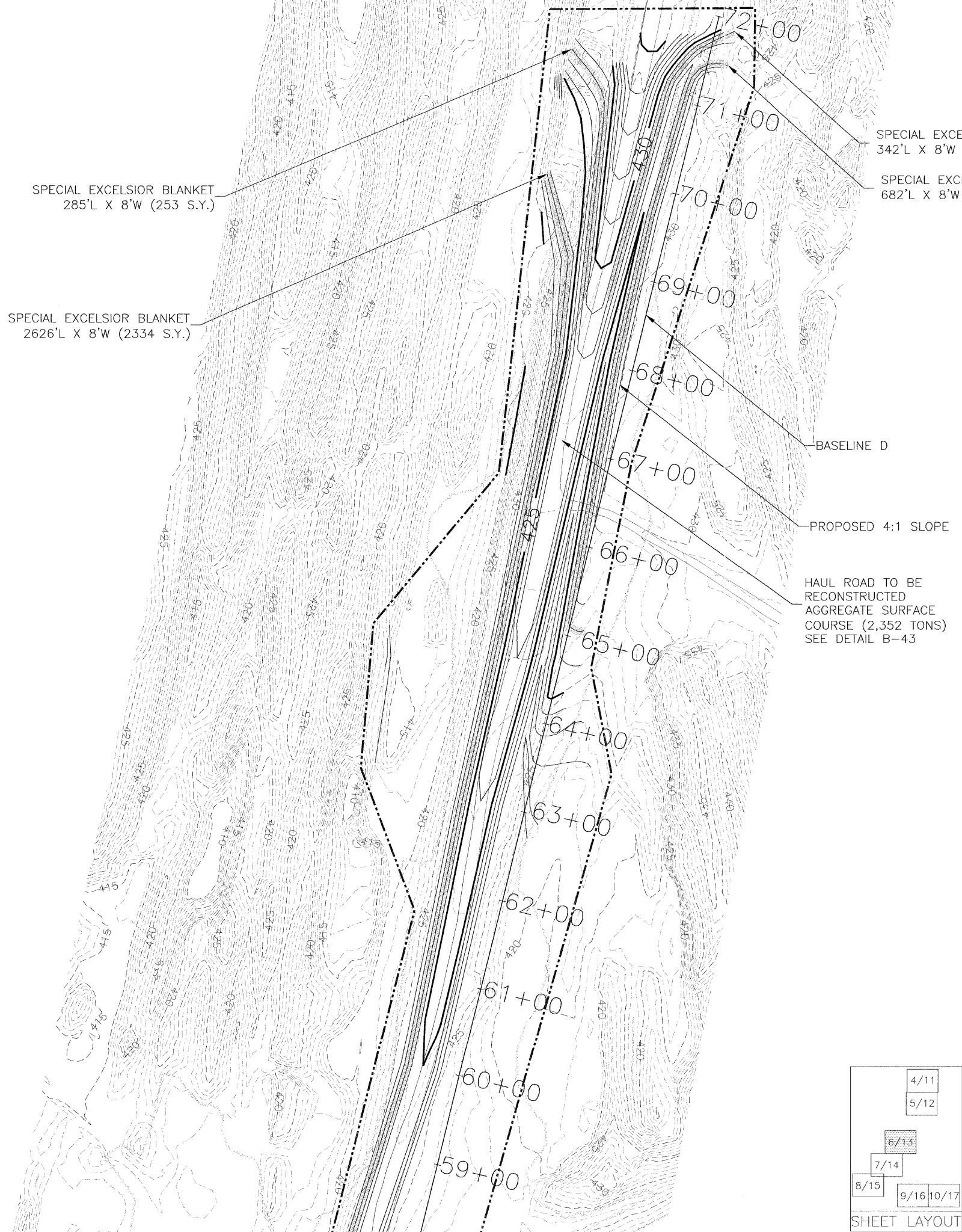
SPECIAL EXCELSIOR BLANKET
 32'L X 8'W - 2 STRIPS (57 S.Y.)
 EXISTING FOUNDATIONS
 TO BE REMOVED
 SEE NOTE #2, SHEET 3



Drawn By: \_\_\_\_\_ Date: 01-31-08
 Checked By: \_\_\_\_\_
 OMA \_\_\_\_\_



| | |
|---------|---------------------------|
| --- | EXISTING CONTOUR |
| — | PROPOSED CONTOURS |
| --- | CONSTRUCTION LIMITS |
| --- | SPECIAL EXCELSIOR BLANKET |
| — W — | WATER SERVICE LINE |
| --- | WATER WAY |
| --- | SECTION LINE |
| — OHP — | OVERHEAD POWER LINE |
| ⊙ | ELECTRIC POWER POLE |
| LEGEND | |



SPECIAL EXCELSIOR BLANKET
342'L X 8'W (304 S.Y.)

SPECIAL EXCELSIOR BLANKET
682'L X 8'W (606 S.Y.)

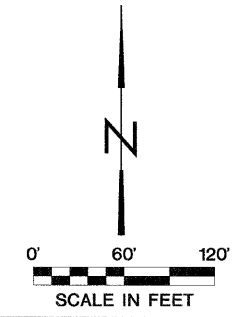
SPECIAL EXCELSIOR BLANKET
285'L X 8'W (253 S.Y.)

SPECIAL EXCELSIOR BLANKET
2626'L X 8'W (2334 S.Y.)

BASELINE D

PROPOSED 4:1 SLOPE

HAUL ROAD TO BE
RECONSTRUCTED
AGGREGATE SURFACE
COURSE (2,352 TONS)
SEE DETAIL B-43



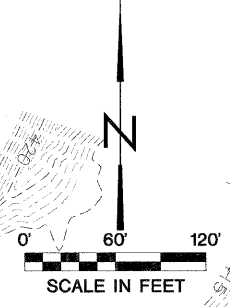
| | |
|--|---------------------------|
| | EXISTING CONTOUR |
| | PROPOSED CONTOURS |
| | CONSTRUCTION LIMITS |
| | SPECIAL EXCELSIOR BLANKET |
| | W WATER SERVICE LINE |
| | WATER WAY |
| | SECTION LINE |
| | OHP OVERHEAD POWER LINE |
| | ELECTRIC POWER POLE |

LEGEND

| | |
|------|------------|
| | 4/11 |
| | 5/12 |
| | 6/13 |
| | 7/14 |
| 8/15 | 9/16 10/17 |

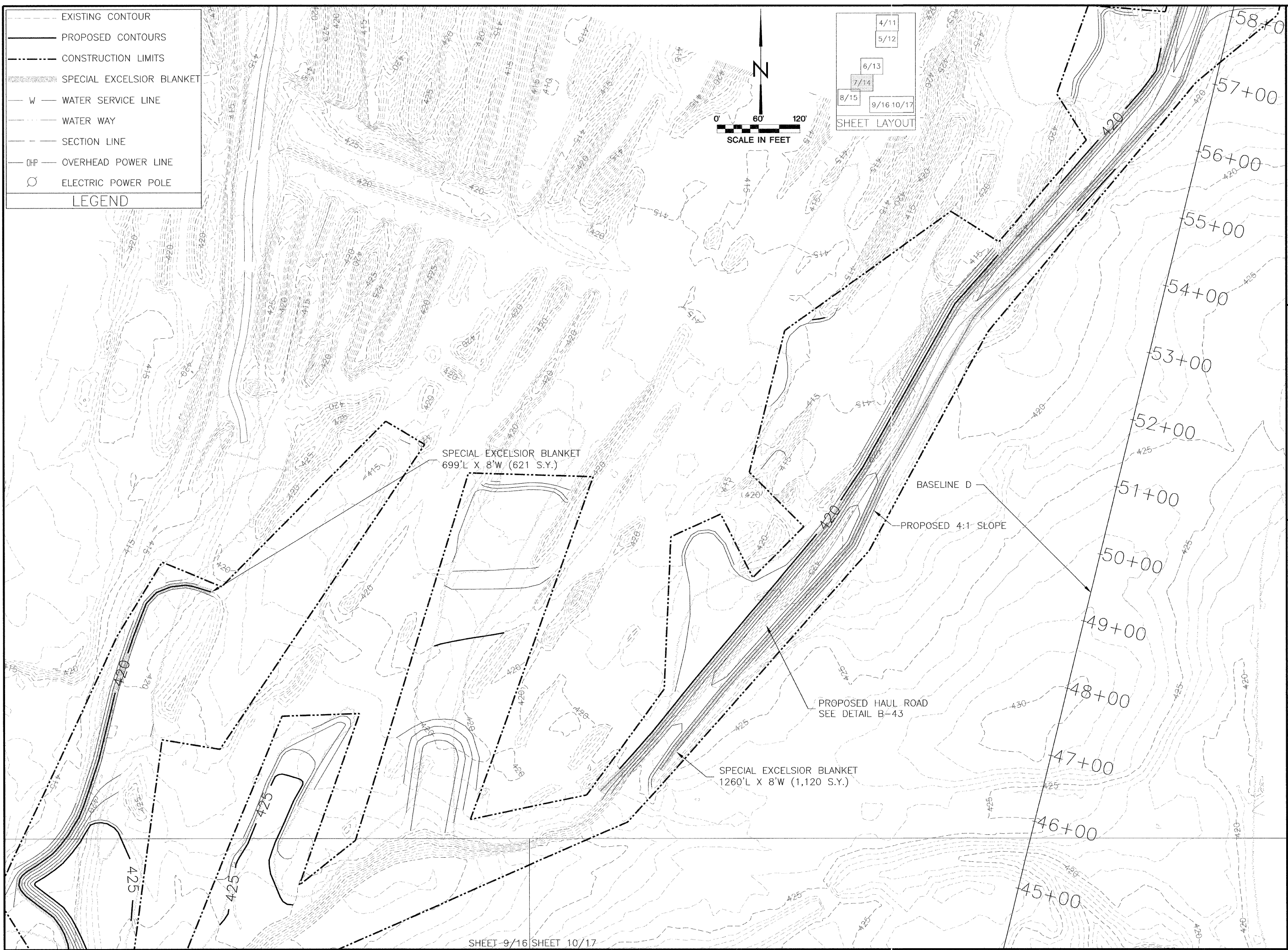
SHEET LAYOUT

| | |
|---------------|---------------------------|
| | EXISTING CONTOUR |
| | PROPOSED CONTOURS |
| | CONSTRUCTION LIMITS |
| | SPECIAL EXCELSIOR BLANKET |
| | W — WATER SERVICE LINE |
| | WATER WAY |
| | SECTION LINE |
| | OHP — OVERHEAD POWER LINE |
| | ELECTRIC POWER POLE |
| LEGEND | |



| |
|------------|
| 4/11 |
| 5/12 |
| 6/13 |
| 7/14 |
| 8/15 |
| 9/16 10/17 |

SHEET LAYOUT



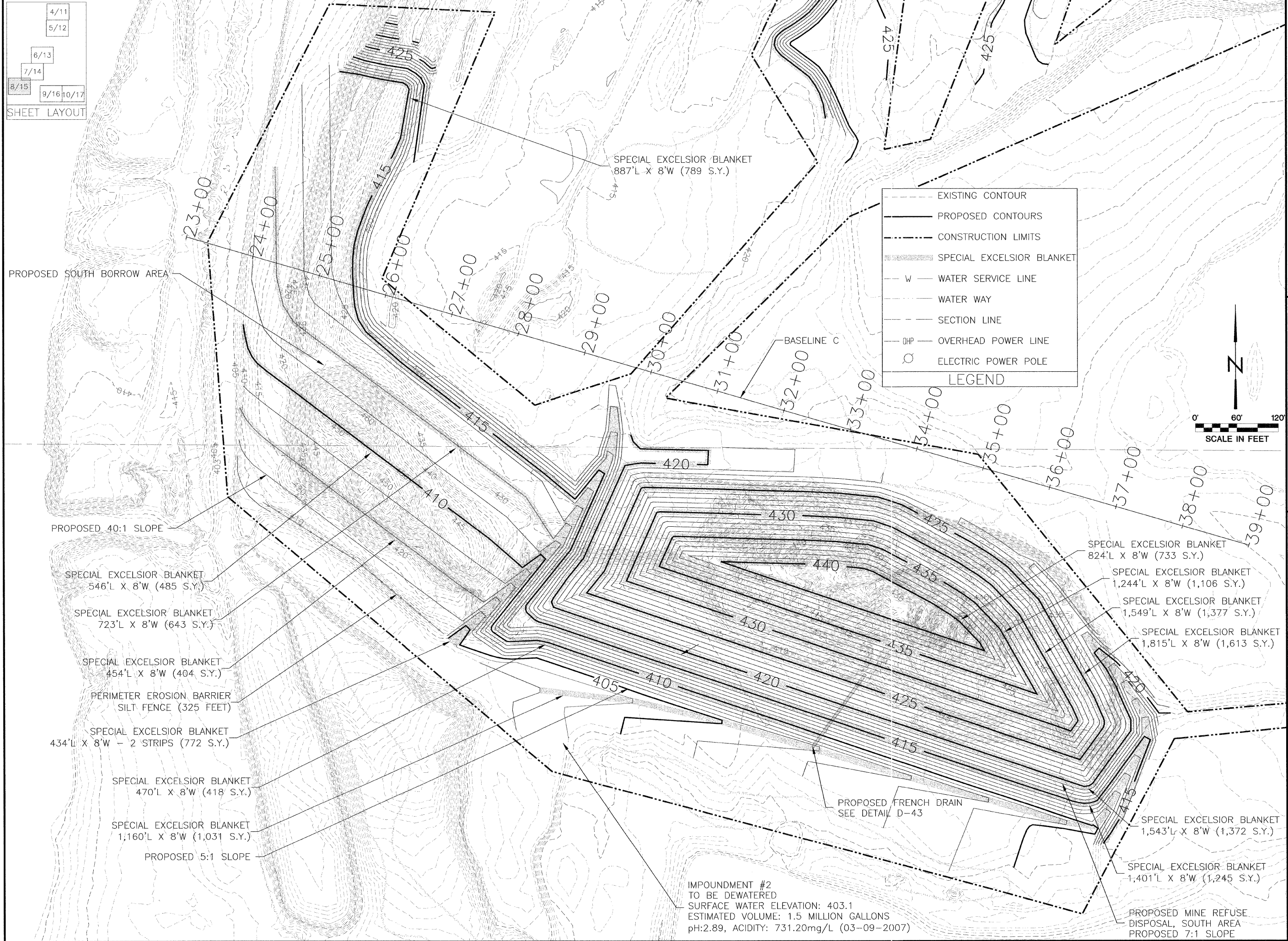
State of Illinois
Department of Natural Resources

Vergennes Township South
Reclamation Project
AML-GJKE-0609
Jackson County

Drawn By: OMA Date: 01-31-08
Checked By: \_\_\_\_\_

**Proposed
Conditions**
Sheet 14 of 43

4/11
5/12
6/13
7/14
8/15
9/16 10/17
SHEET LAYOUT



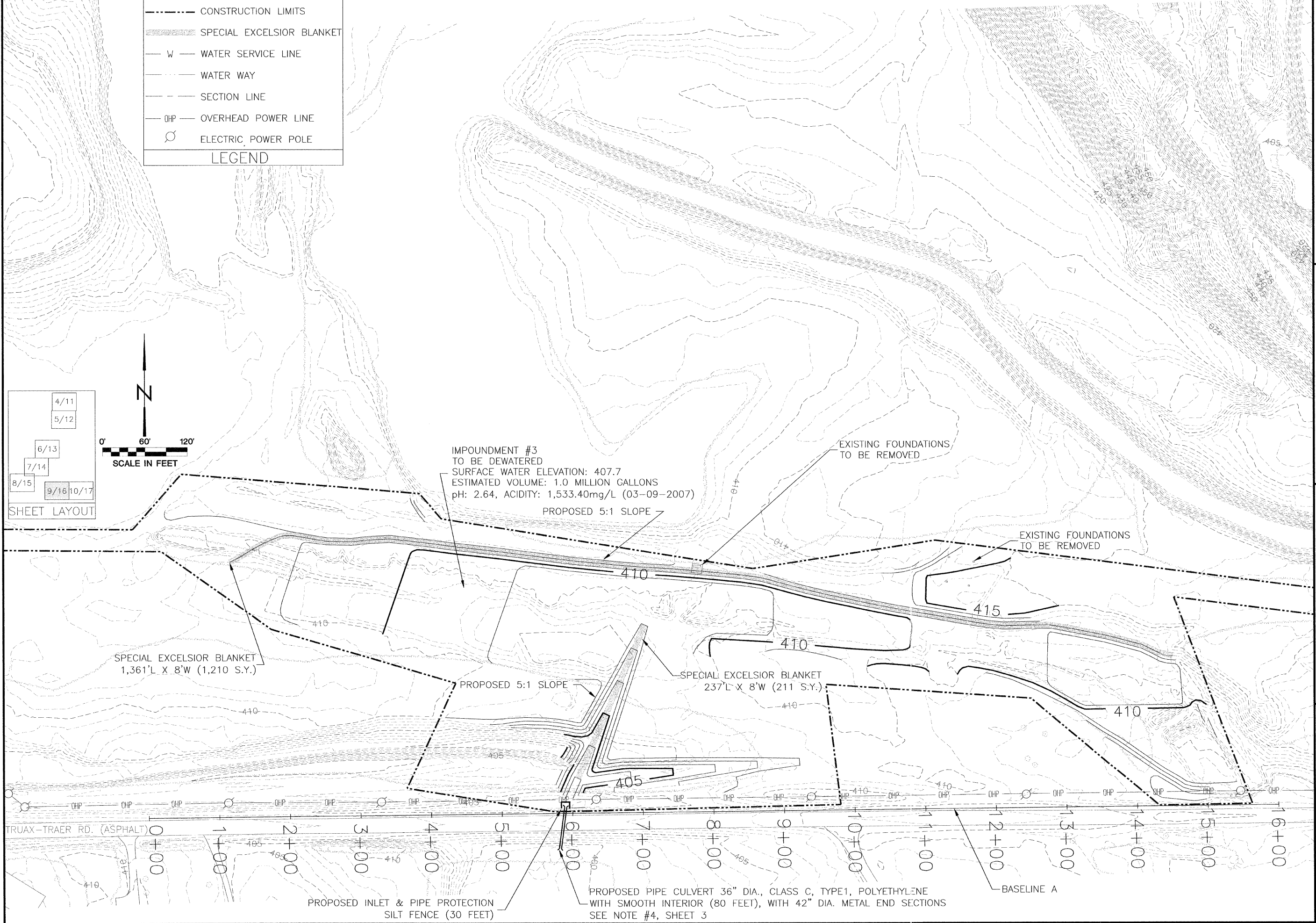
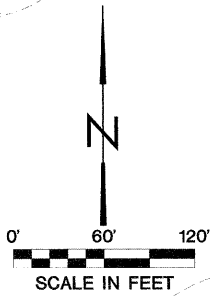
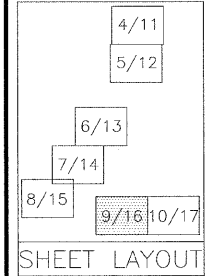
State of Illinois
Department of Natural Resources

Vergennes Township South
Reclamation Project
AML-GjKE-0609
Jackson County

Drawn By: \_\_\_\_\_ Date: 01-31-08
Checked By: \_\_\_\_\_

Proposed
Conditions
Sheet 15 of 43

- EXISTING CONTOUR
 - PROPOSED CONTOURS
 - - - CONSTRUCTION LIMITS
 - ▨ SPECIAL EXCELSIOR BLANKET
 - W — WATER SERVICE LINE
 - WATER WAY
 - SECTION LINE
 - OHP — OVERHEAD POWER LINE
 - ELECTRIC POWER POLE
- LEGEND**



IMPOUNDMENT #3
 TO BE DEWATERED
 SURFACE WATER ELEVATION: 407.7
 ESTIMATED VOLUME: 1.0 MILLION GALLONS
 pH: 2.64, ACIDITY: 1,533.40mg/L (03-09-2007)

EXISTING FOUNDATIONS
 TO BE REMOVED

EXISTING FOUNDATIONS
 TO BE REMOVED

SPECIAL EXCELSIOR BLANKET
 1,361'L X 8'W (1,210 S.Y.)

SPECIAL EXCELSIOR BLANKET
 237'L X 8'W (211 S.Y.)

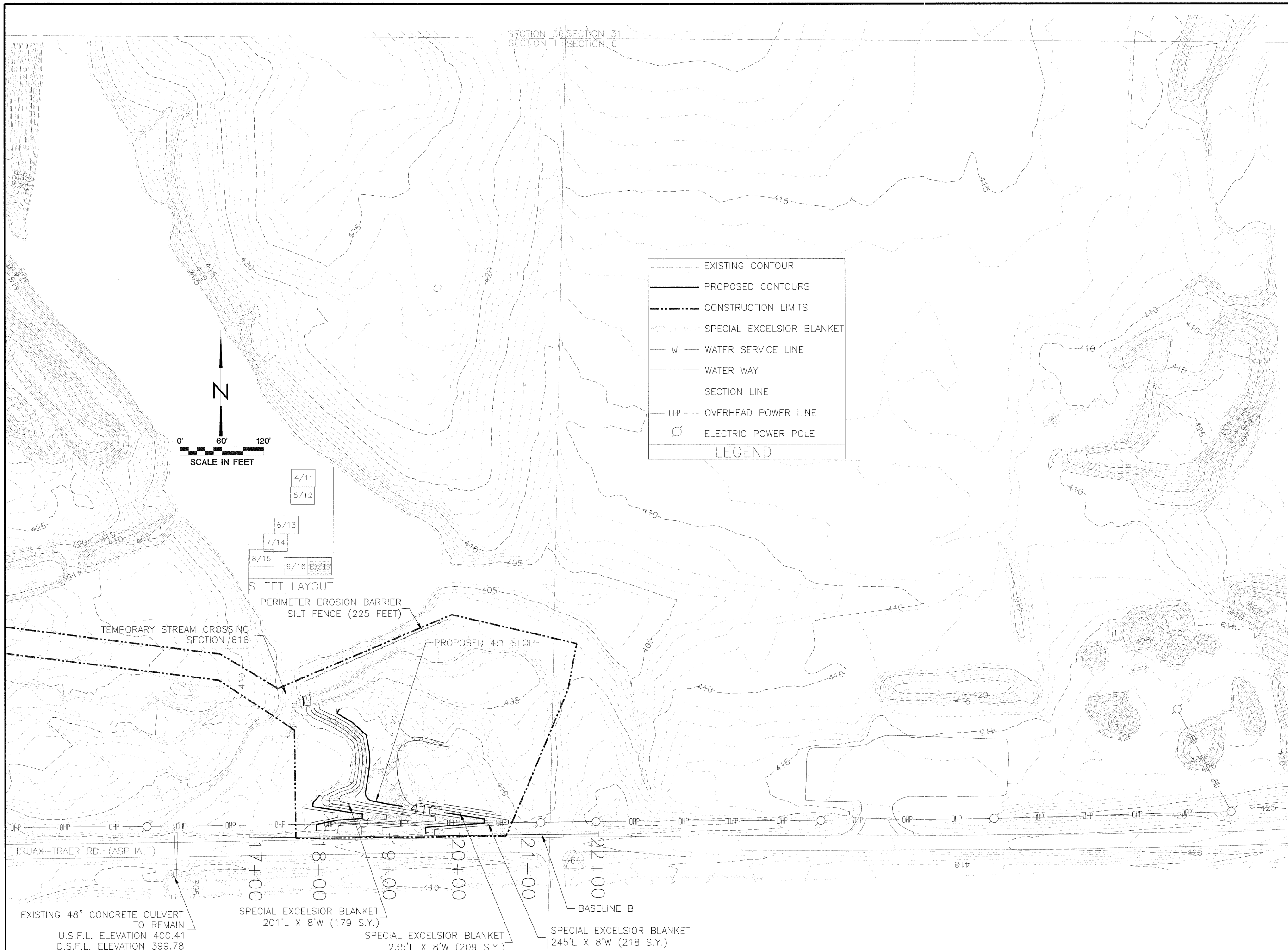
TRUAX-TRAEER RD. (ASPHALT)

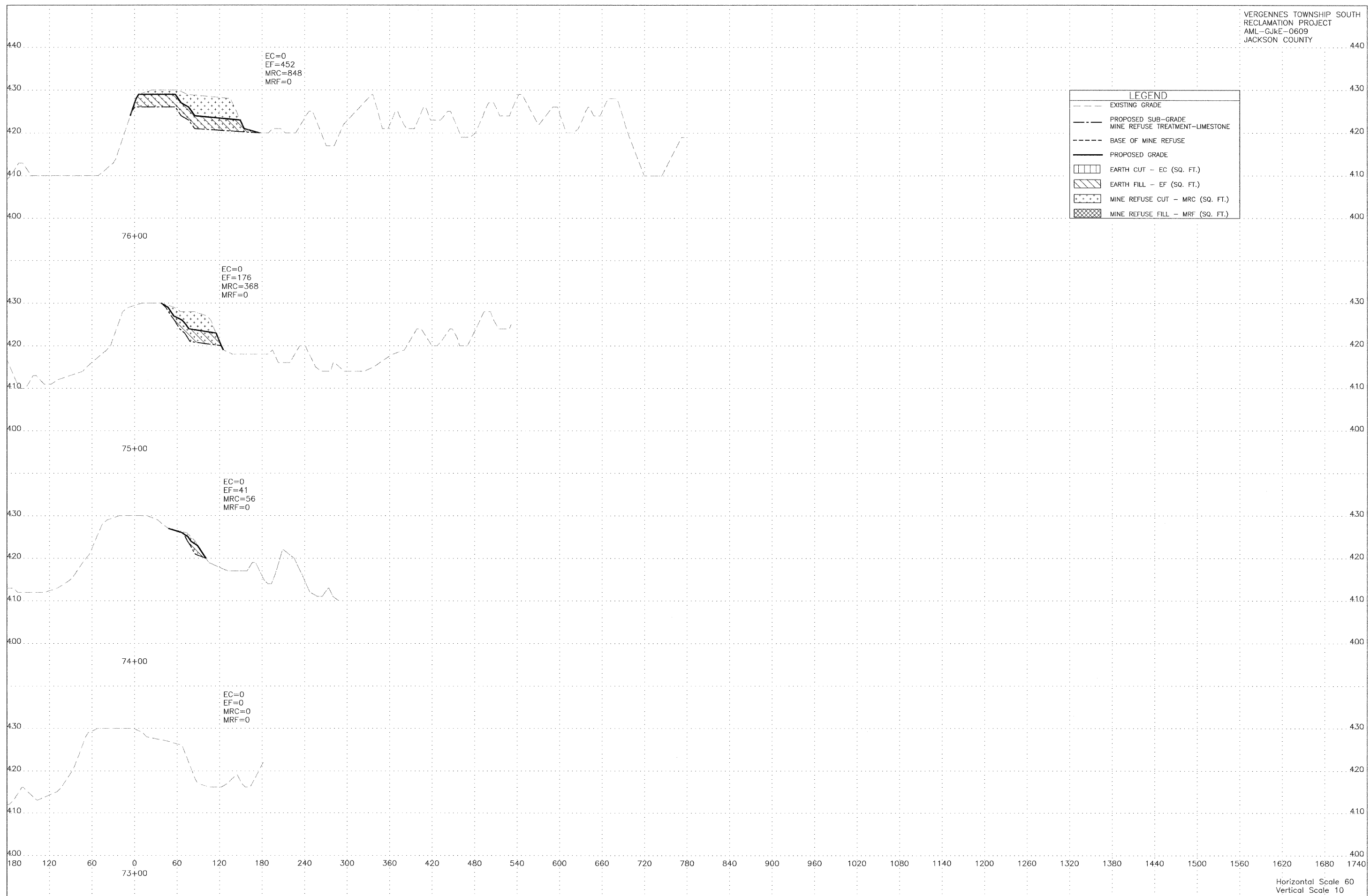
PROPOSED INLET & PIPE PROTECTION
 SILT FENCE (30 FEET)

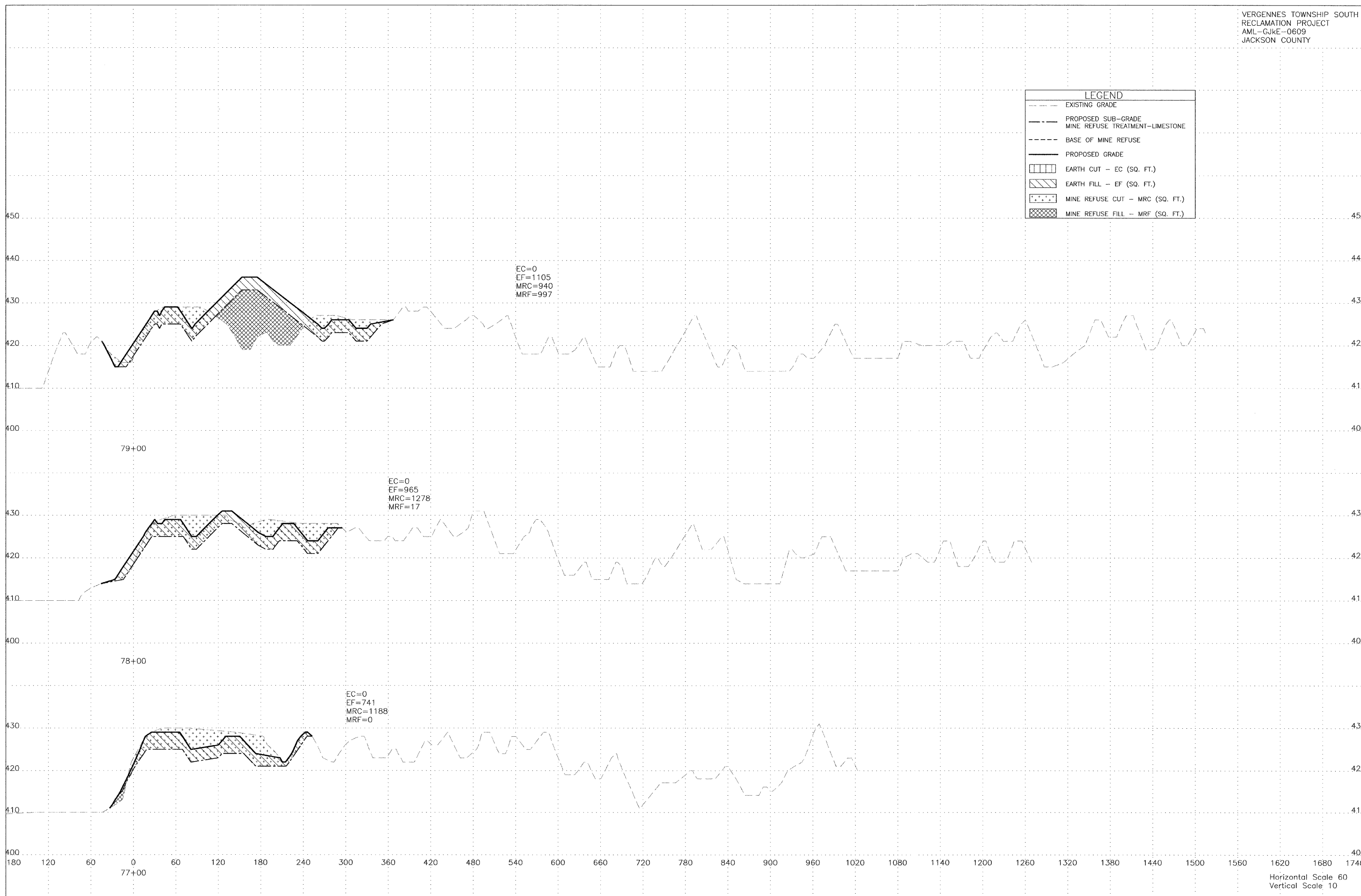
PROPOSED PIPE CULVERT 36" DIA., CLASS C, TYPE1, POLYETHYLENE
 WITH SMOOTH INTERIOR (80 FEET), WITH 42" DIA. METAL END SECTIONS
 SEE NOTE #4, SHEET 3

— BASELINE A

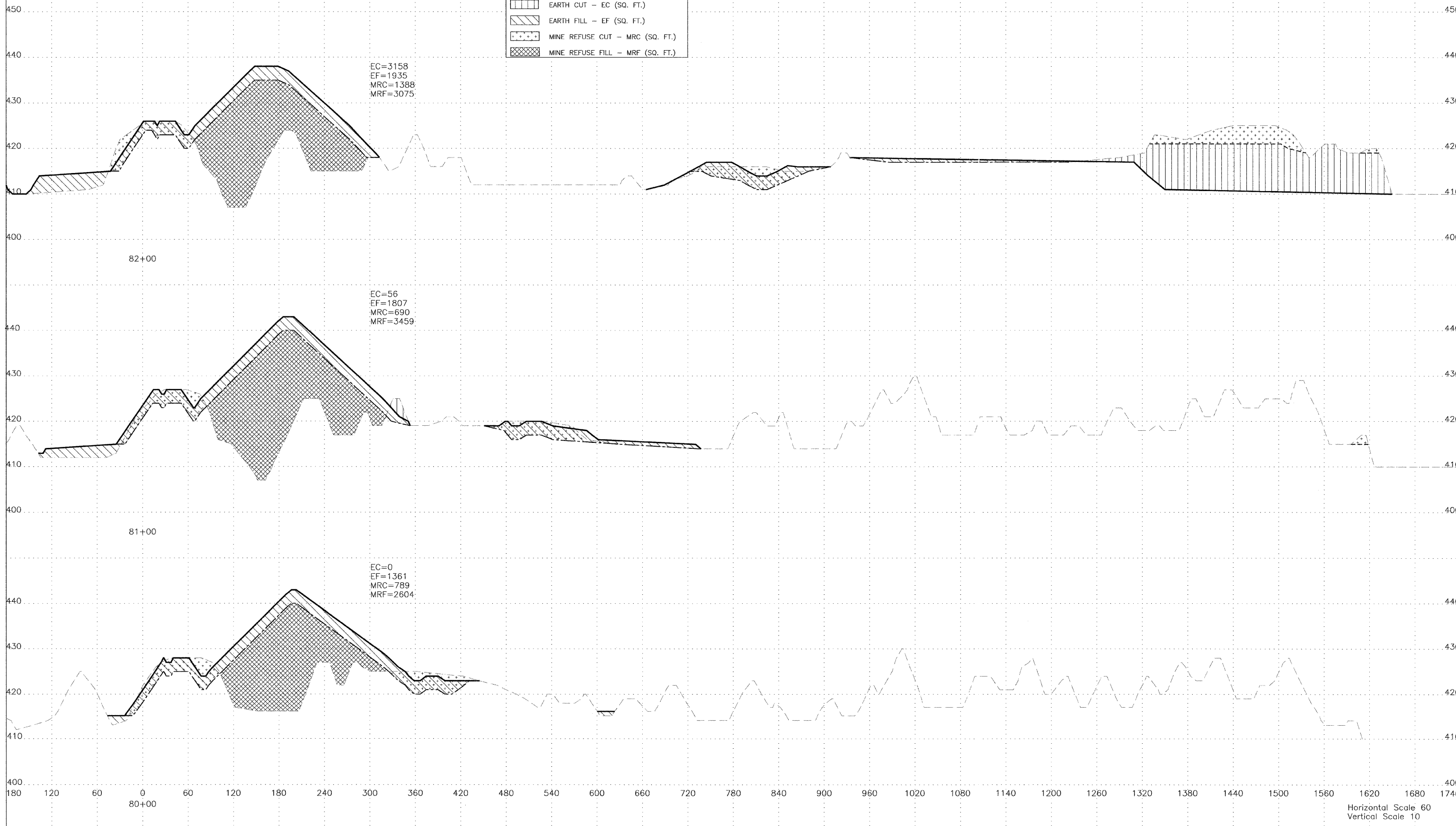
Drawn By: OMA Date: 01-31-08
 Checked By:



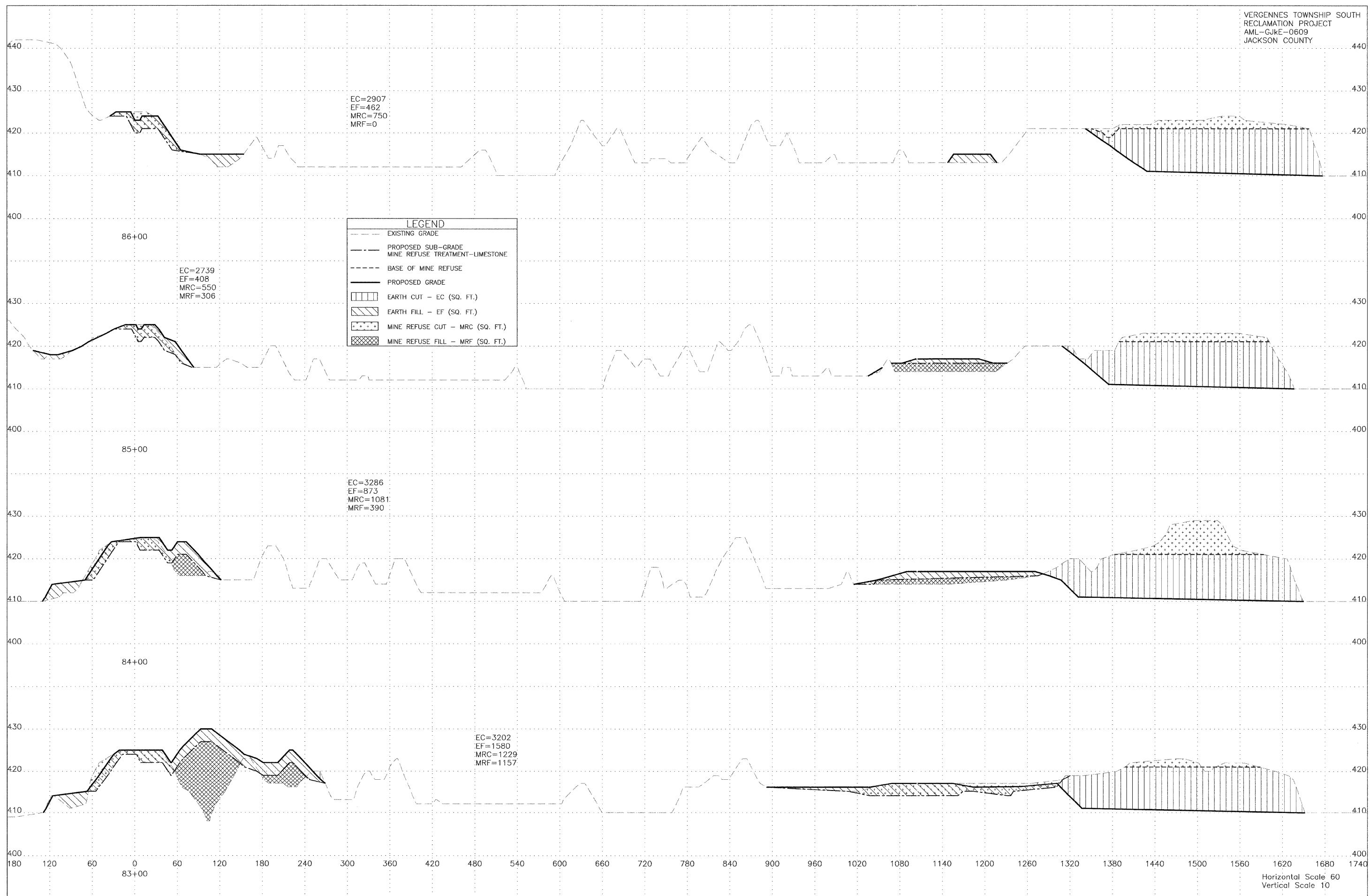




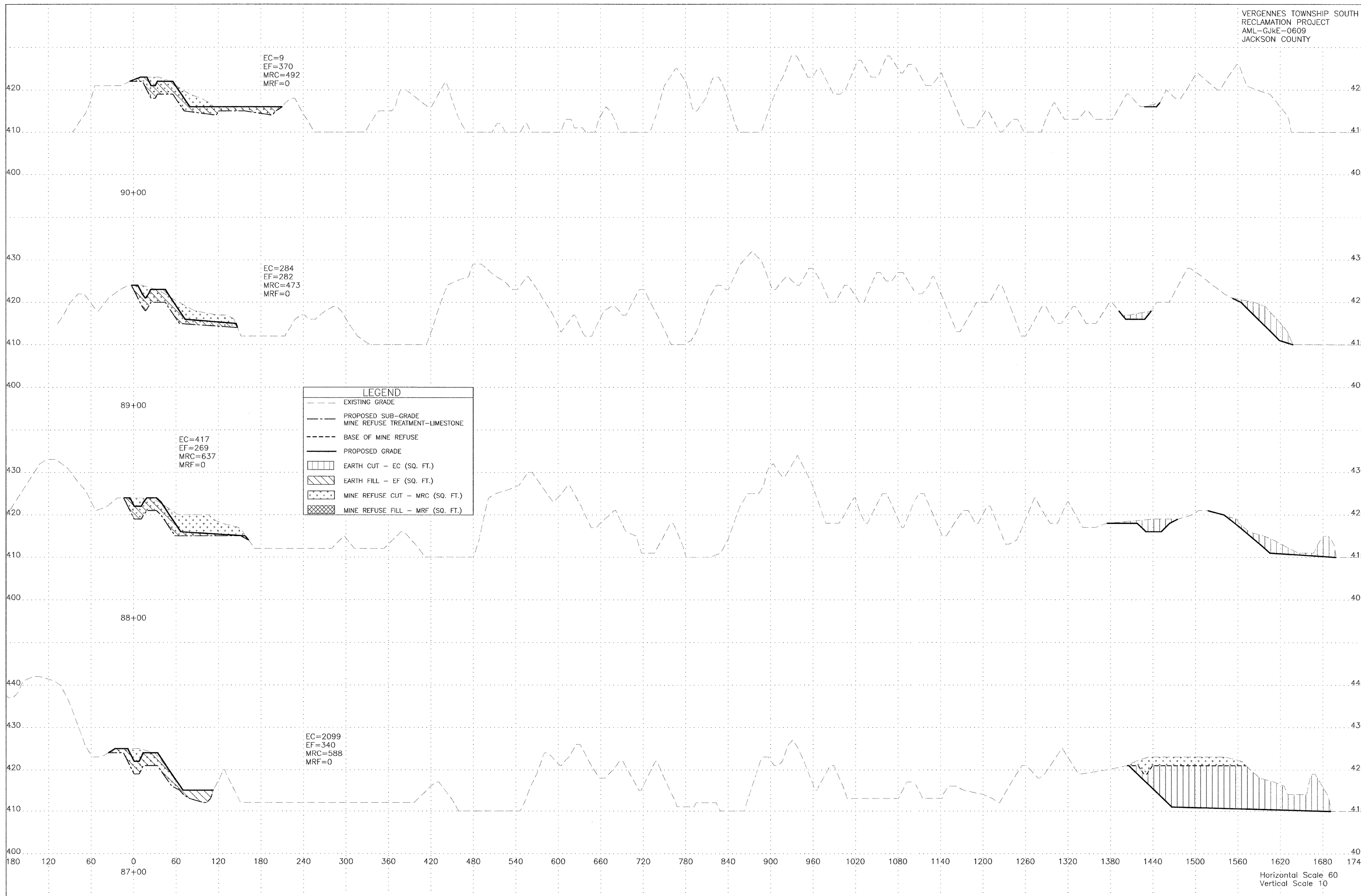
| LEGEND | |
|---------|---|
| - - - - | EXISTING GRADE |
| - - - - | PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE |
| - - - - | BASE OF MINE REFUSE |
| ———— | PROPOSED GRADE |
| ▨ | EARTH CUT - EC (SQ. FT.) |
| ▧ | EARTH FILL - EF (SQ. FT.) |
| ▩ | MINE REFUSE CUT - MRC (SQ. FT.) |
| ▫ | MINE REFUSE FILL - MRF (SQ. FT.) |



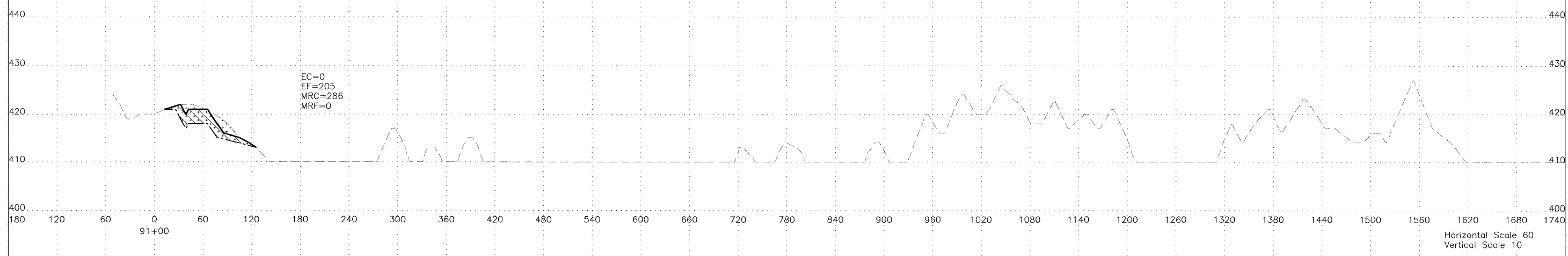
Horizontal Scale 60
 Vertical Scale 10



Horizontal Scale 60
 Vertical Scale 10

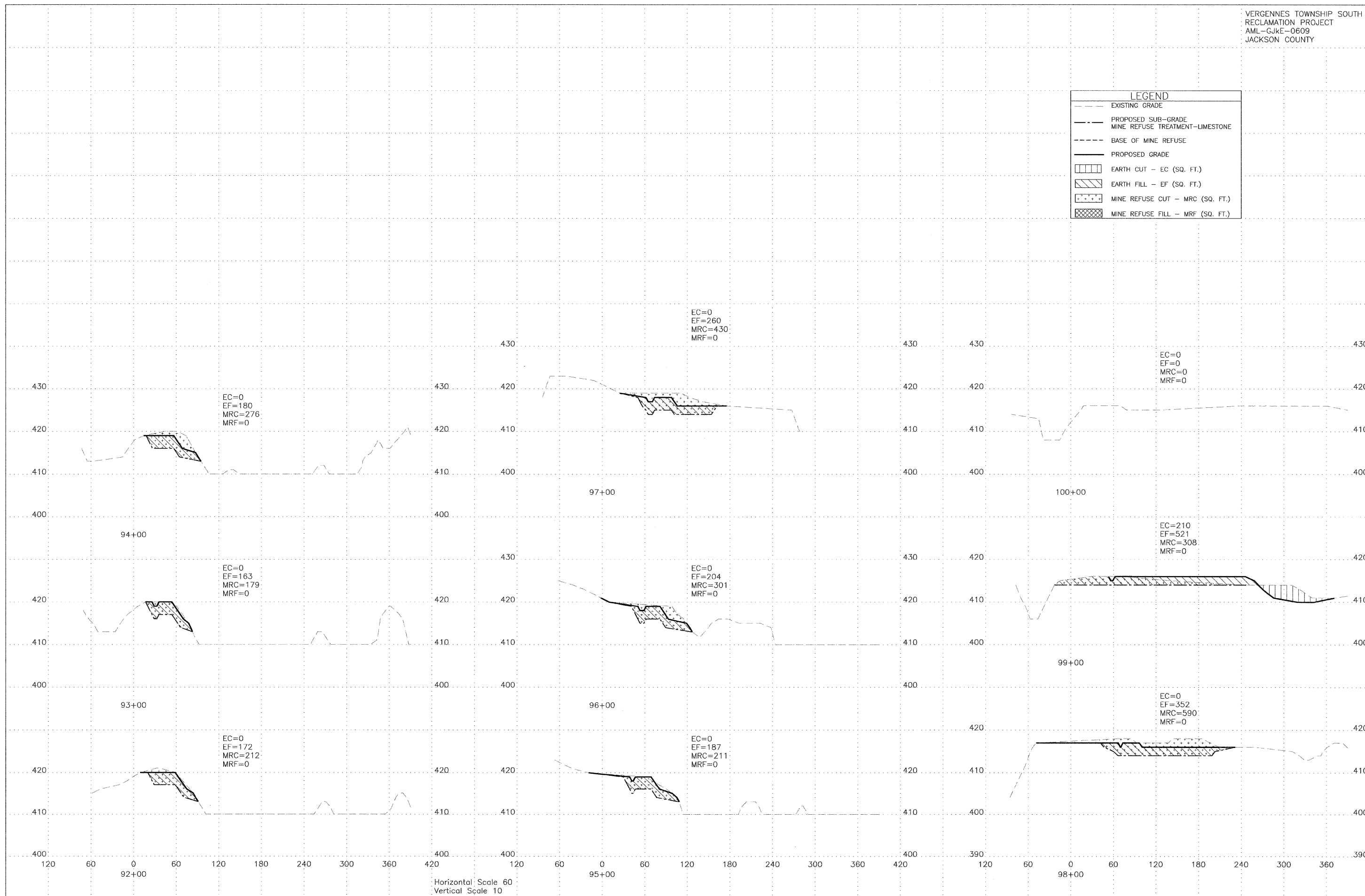


| LEGEND | |
|--------|----------------------------------|
| --- | EXISTING GRADE |
| --- | PROPOSED SUB-GRADE |
| --- | MINE REFUSE TREATMENT-LIMESTONE |
| --- | BASE OF MINE REFUSE |
| --- | PROPOSED GRADE |
| □ | EARTH CUT - EC (SQ. FT.) |
| ▨ | EARTH FILL - EF (SQ. FT.) |
| ▩ | MINE REFUSE CUT - MRC (SQ. FT.) |
| ▧ | MINE REFUSE FILL - MRF (SQ. FT.) |



Horizontal Scale 60
Vertical Scale 10

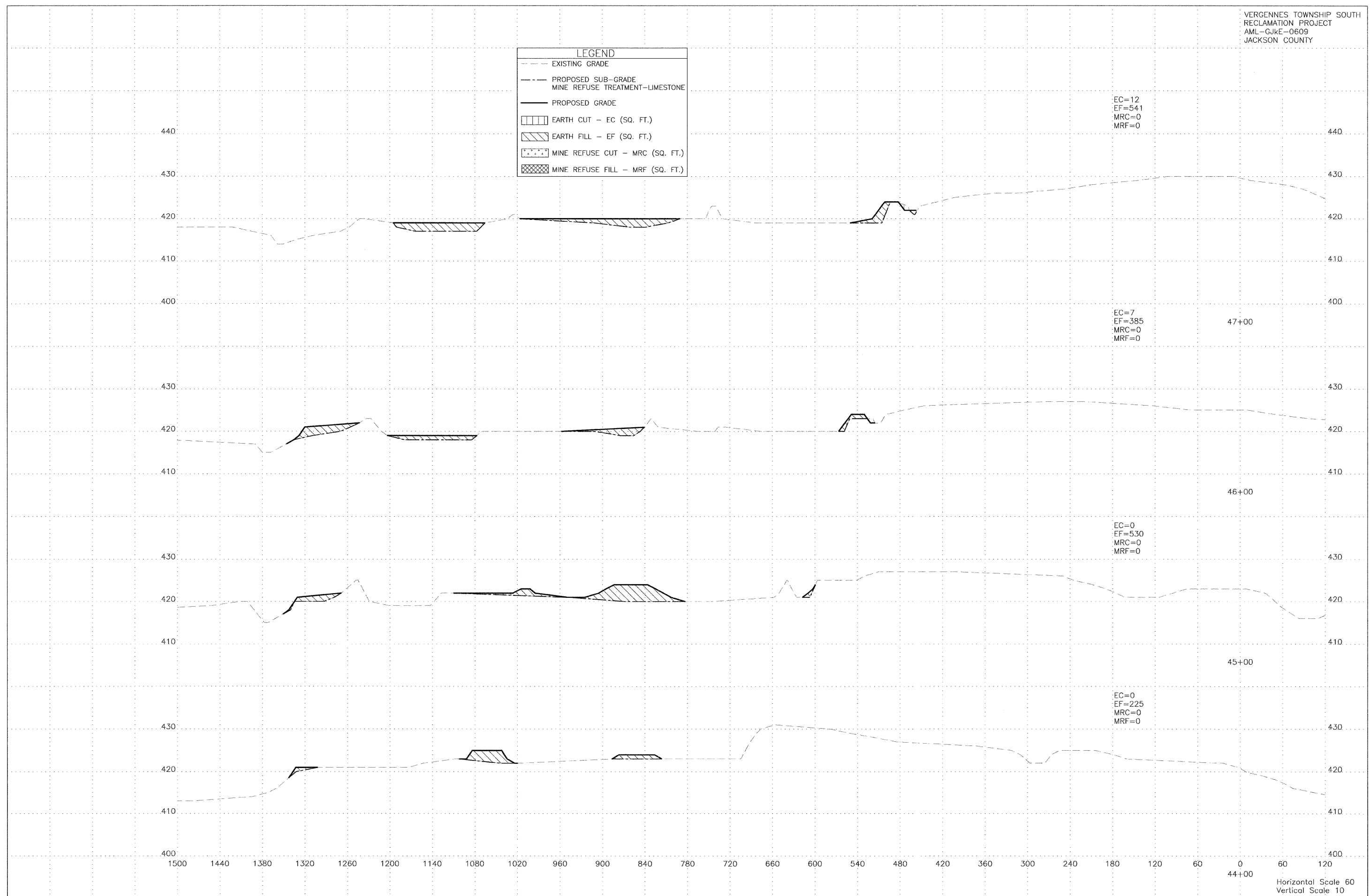
| LEGEND | |
|---------------|----------------------------------|
| --- | EXISTING GRADE |
| --- | PROPOSED SUB-GRADE |
| --- | MINE REFUSE TREATMENT-LIMESTONE |
| --- | BASE OF MINE REFUSE |
| --- | PROPOSED GRADE |
| [Hatched Box] | EARTH CUT - EC (SQ. FT.) |
| [Hatched Box] | EARTH FILL - EF (SQ. FT.) |
| [Hatched Box] | MINE REFUSE CUT - MRC (SQ. FT.) |
| [Hatched Box] | MINE REFUSE FILL - MRF (SQ. FT.) |



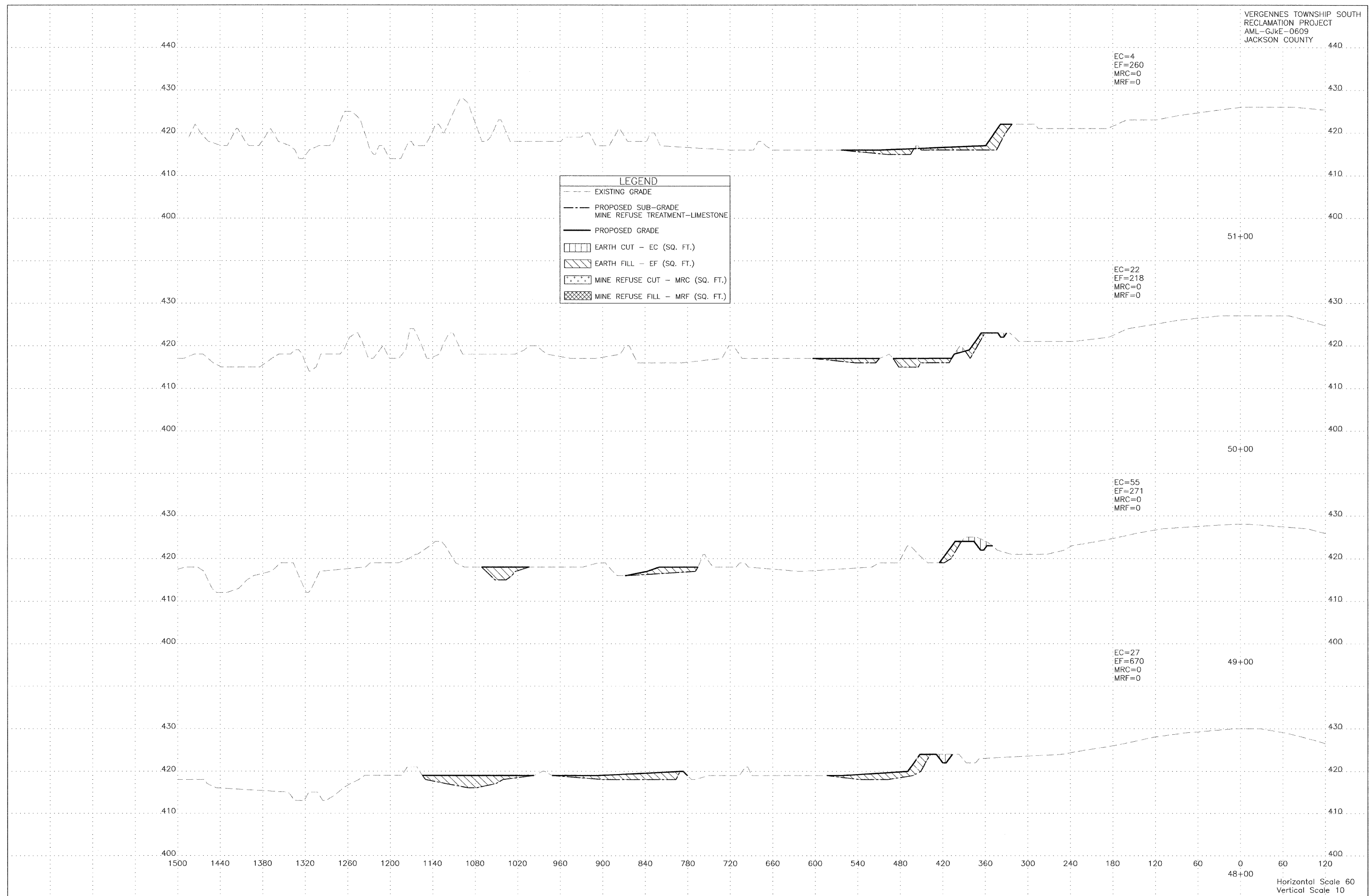


LEGEND

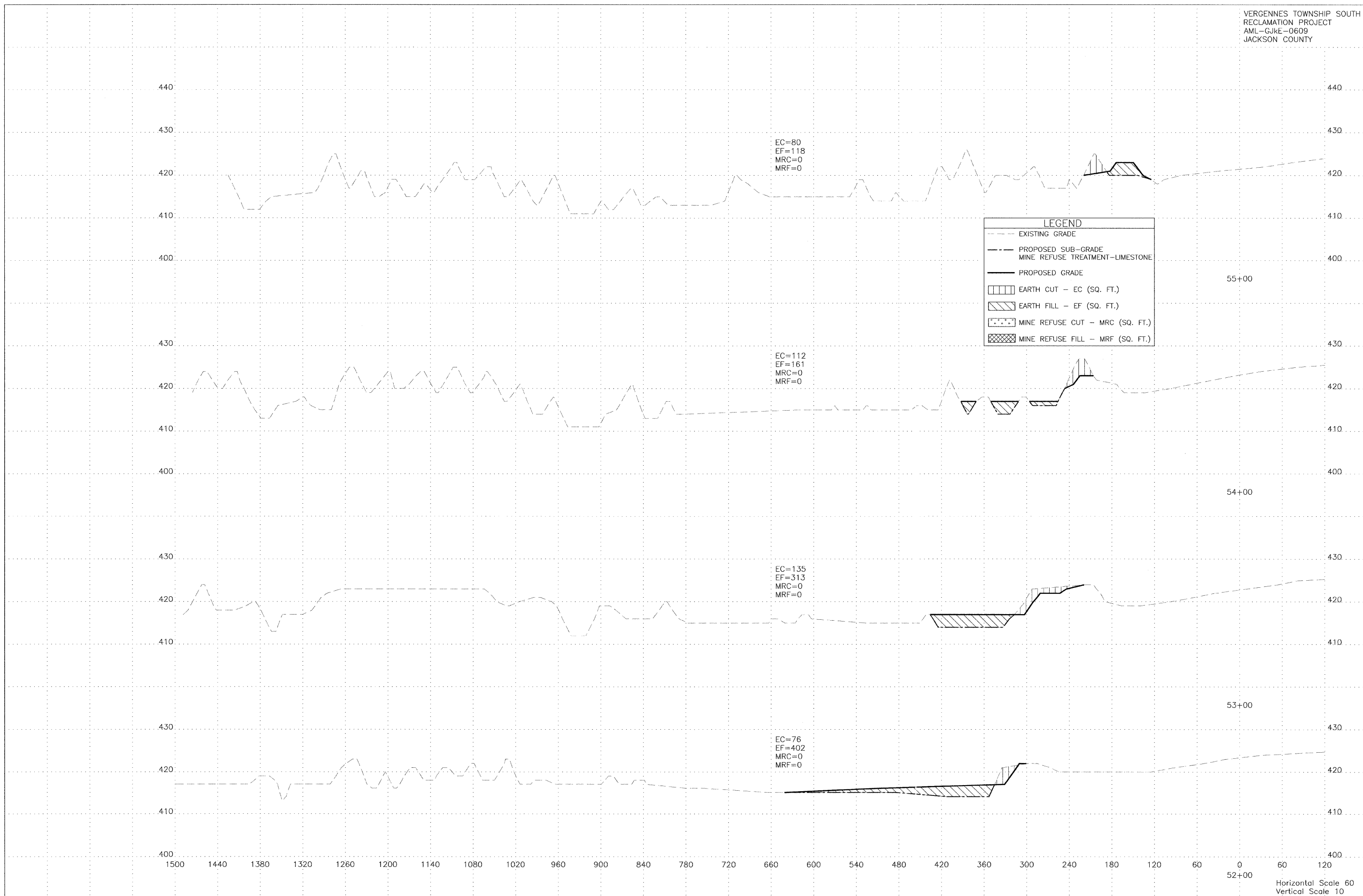
- EXISTING GRADE
- - - PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- [Hatched Box] EARTH CUT - EC (SQ. FT.)
- [Diagonal Hatched Box] EARTH FILL - EF (SQ. FT.)
- [Dotted Box] MINE REFUSE CUT - MRC (SQ. FT.)
- [Cross-hatched Box] MINE REFUSE FILL - MRF (SQ. FT.)










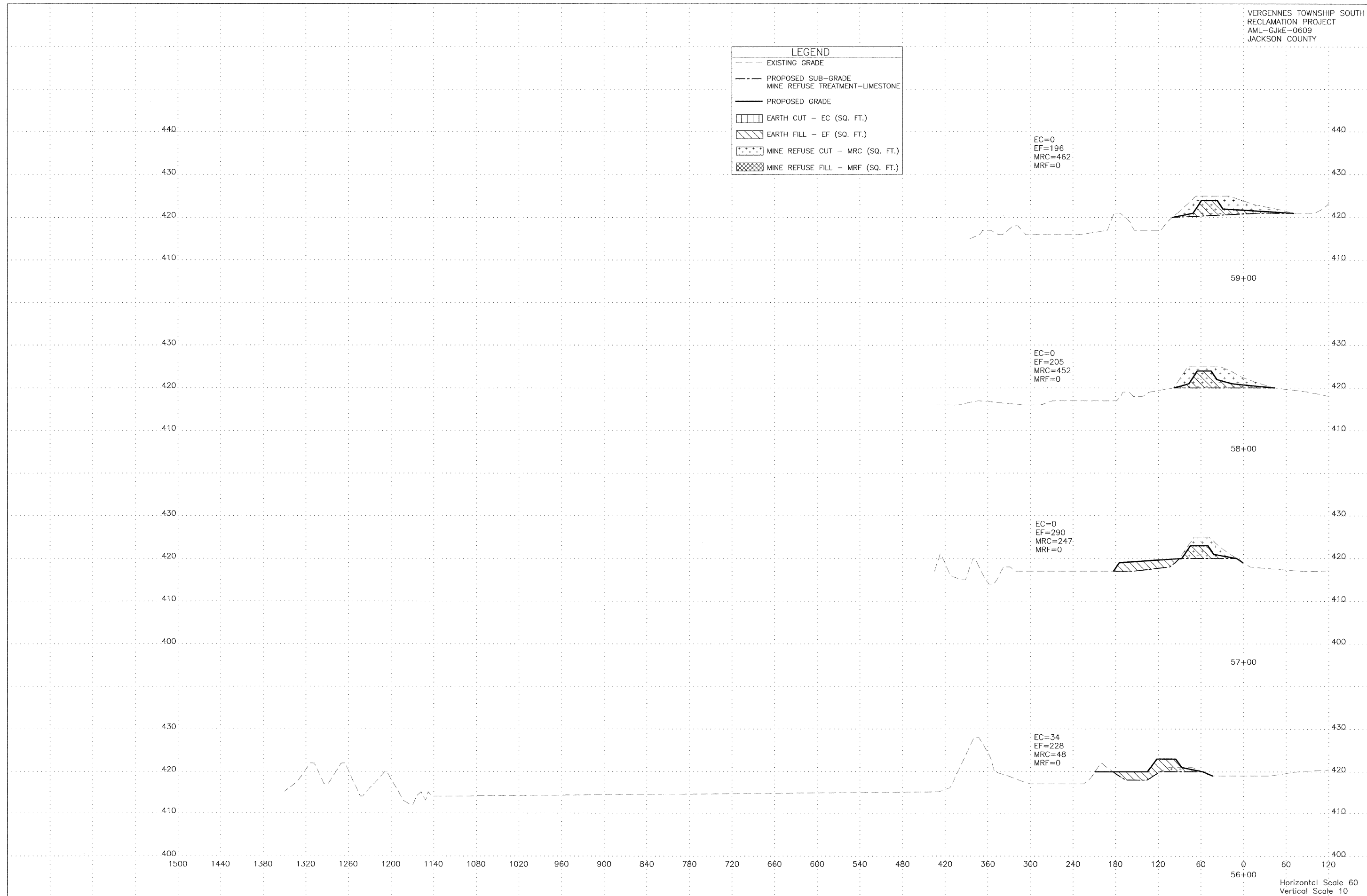
Horizontal Scale 60
 Vertical Scale 10



Horizontal Scale 60
 Vertical Scale 10



| LEGEND | |
|---|---|
|  | EXISTING GRADE |
|  | PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE |
|  | PROPOSED GRADE |
|  | EARTH CUT - EC (SQ. FT.) |
|  | EARTH FILL - EF (SQ. FT.) |
|  | MINE REFUSE CUT - MRC (SQ. FT.) |
|  | MINE REFUSE FILL - MRF (SQ. FT.) |



Horizontal Scale 60
 Vertical Scale 10

| LEGEND | |
|------------------|---|
| --- | EXISTING GRADE |
| - - - | PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE |
| — | PROPOSED GRADE |
| [Vertical Lines] | EARTH CUT - EC (SQ. FT.) |
| [Diagonal Lines] | EARTH FILL - EF (SQ. FT.) |
| [Stippled] | MINE REFUSE CUT - MRC (SQ. FT.) |
| [Cross-hatched] | MINE REFUSE FILL - MRF (SQ. FT.) |

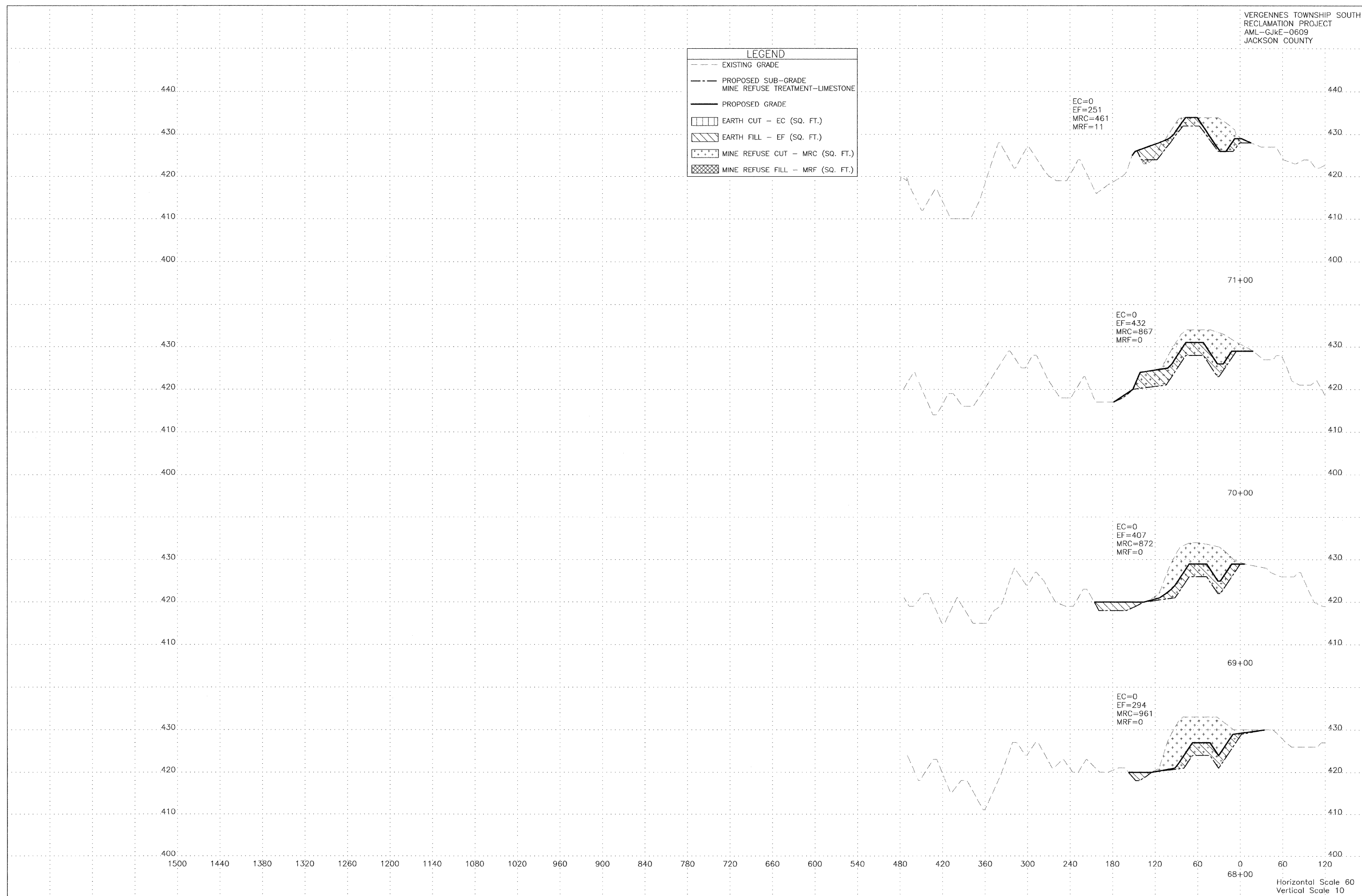
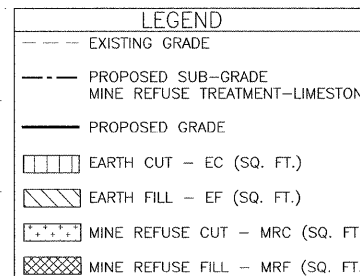


Horizontal Scale 60
 Vertical Scale 10

| LEGEND | |
|-----------------------|---|
| --- | EXISTING GRADE |
| - - - | PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE |
| — | PROPOSED GRADE |
| [Vertical Lines] | EARTH CUT - EC (SQ. FT.) |
| [Diagonal Lines] | EARTH FILL - EF (SQ. FT.) |
| [Dotted Pattern] | MINE REFUSE CUT - MRC (SQ. FT.) |
| [Cross-hatch Pattern] | MINE REFUSE FILL - MRF (SQ. FT.) |



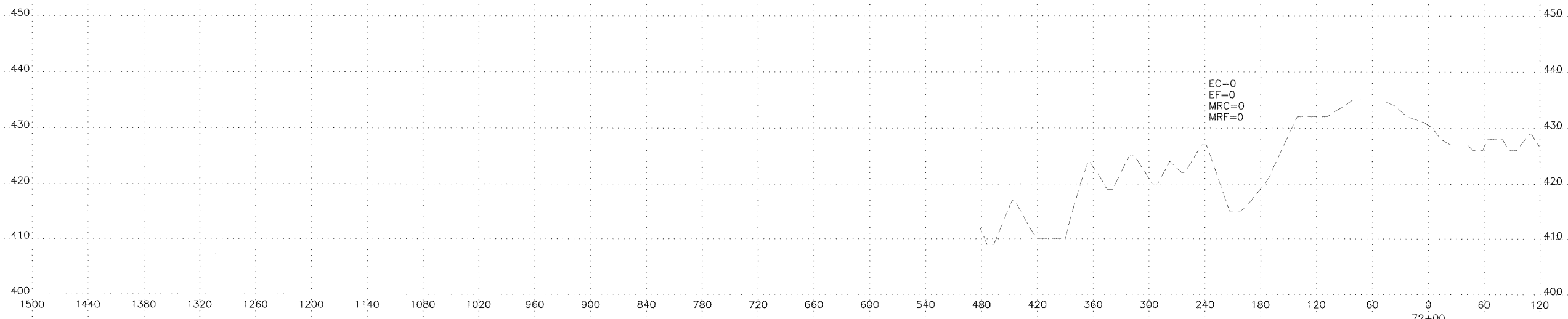
Horizontal Scale 60
 Vertical Scale 10

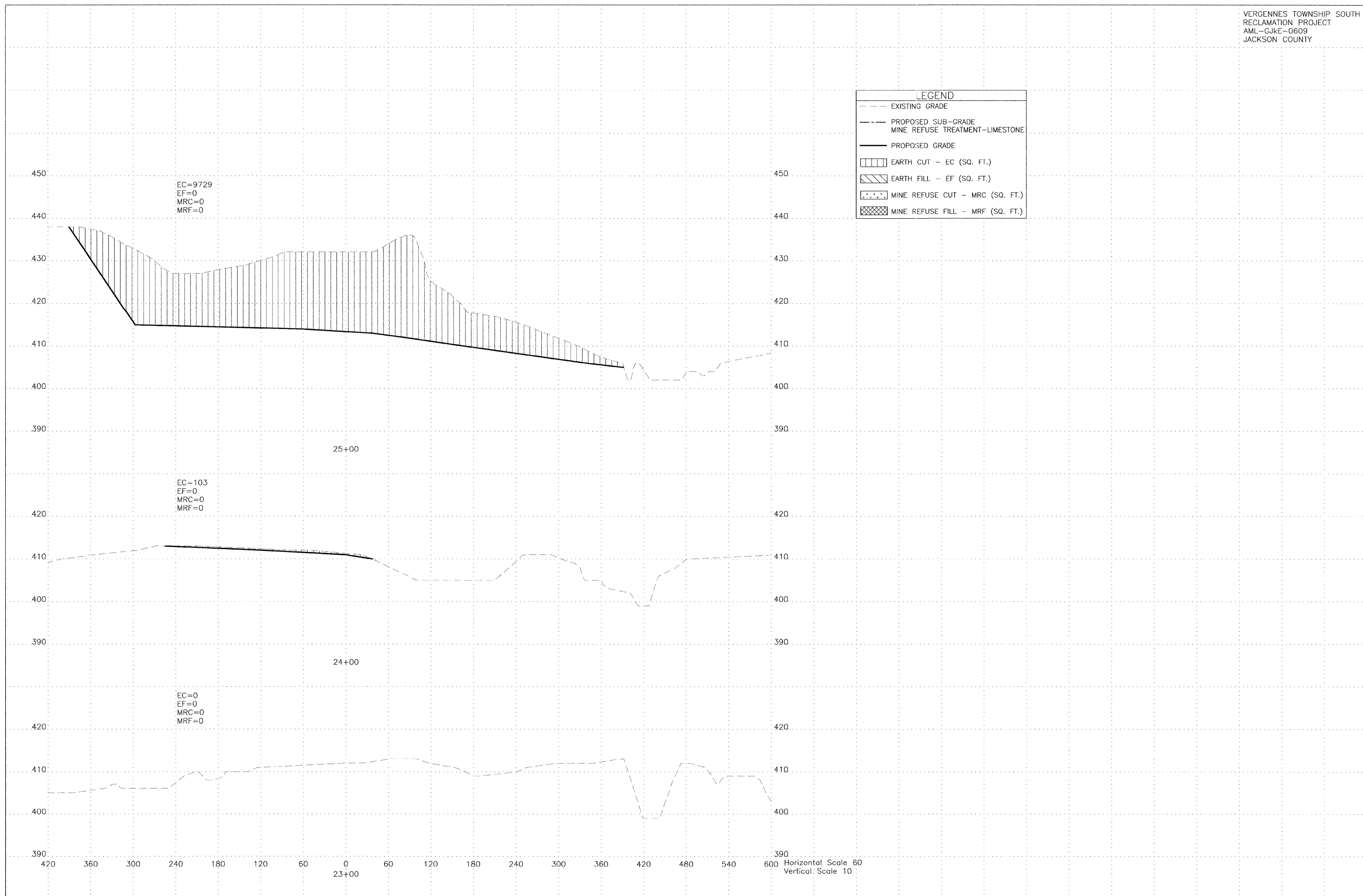


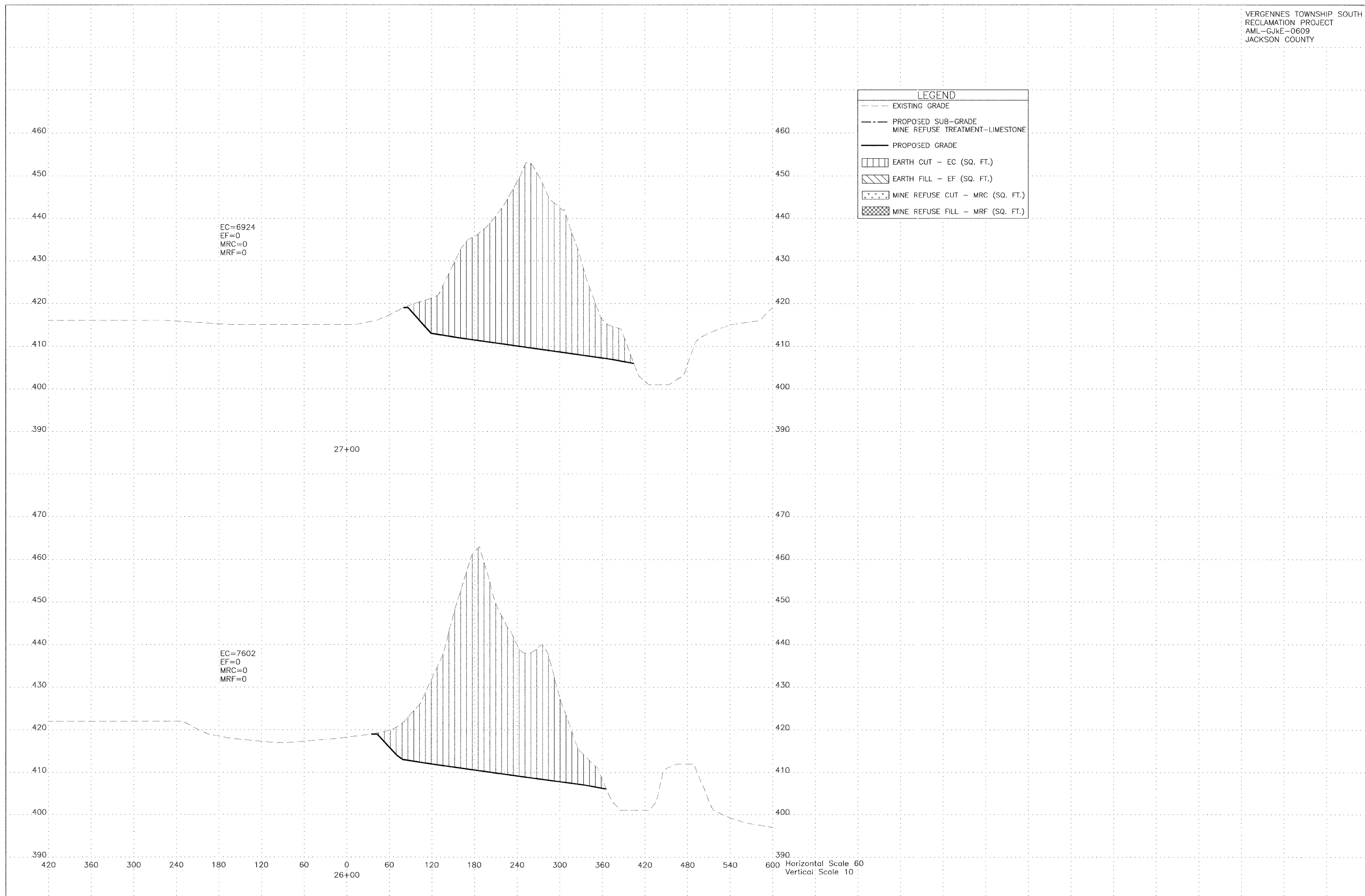
Horizontal Scale 60
 Vertical Scale 10

LEGEND

- EXISTING GRADE
- - - PROPOSED SUB-GRADE
MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- EARTH CUT - EC (SQ. FT.)
- ▨ EARTH FILL - EF (SQ. FT.)
- ▤ MINE REFUSE CUT - MRC (SQ. FT.)
- ▩ MINE REFUSE FILL - MRF (SQ. FT.)







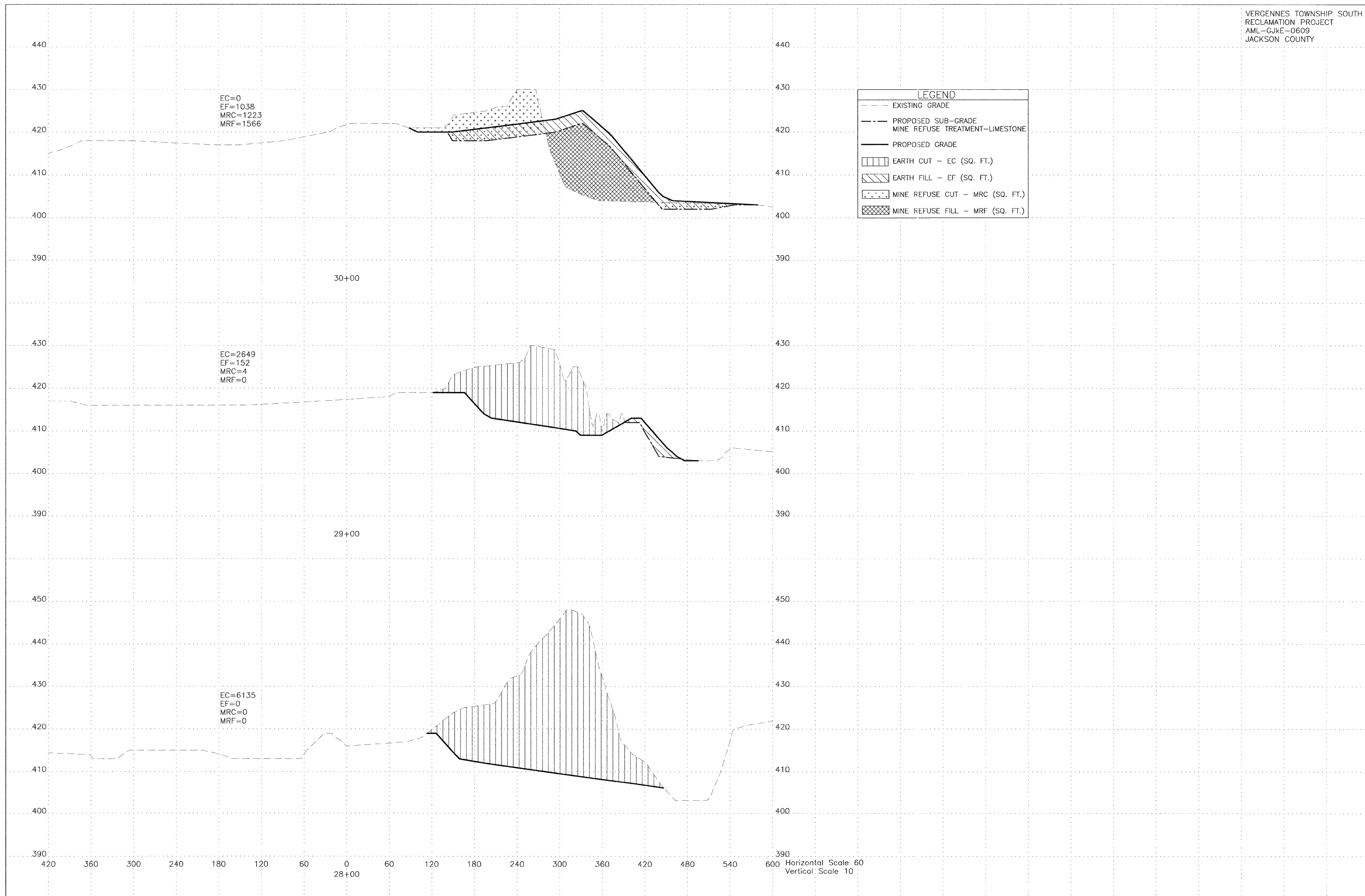
EC=6924
 EF=0
 MRC=0
 MRF=0

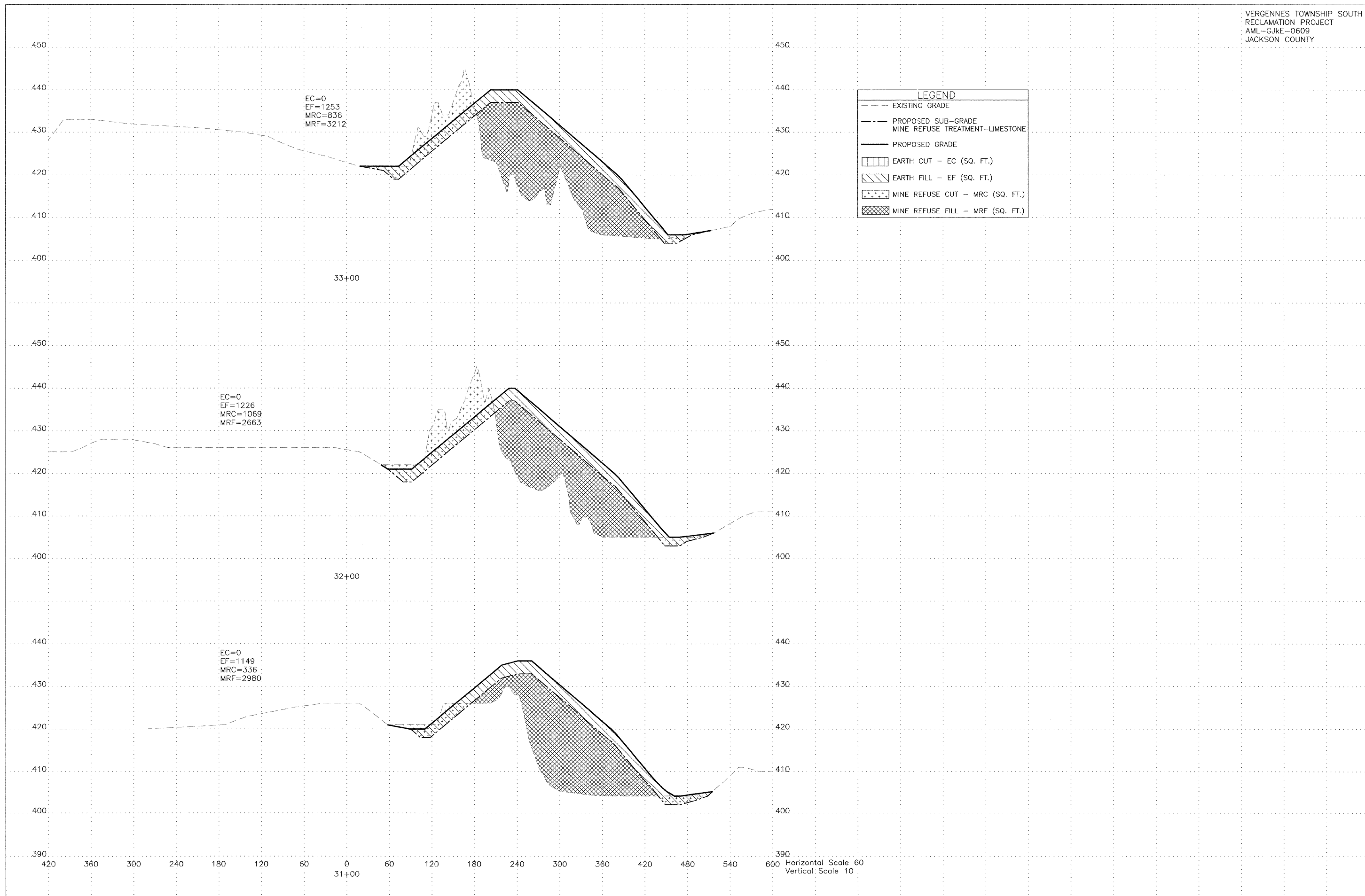
EC=7602
 EF=0
 MRC=0
 MRF=0

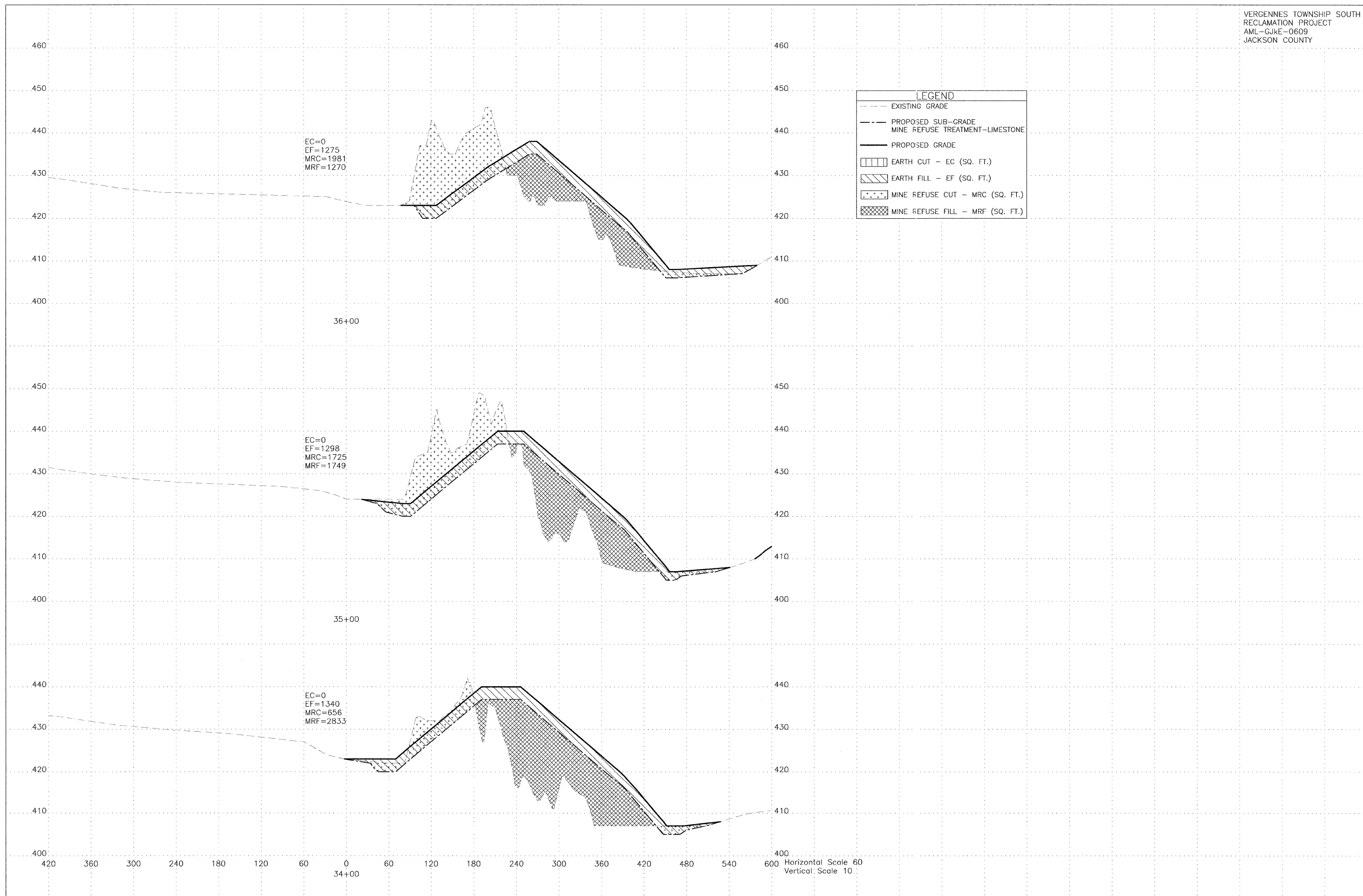
LEGEND

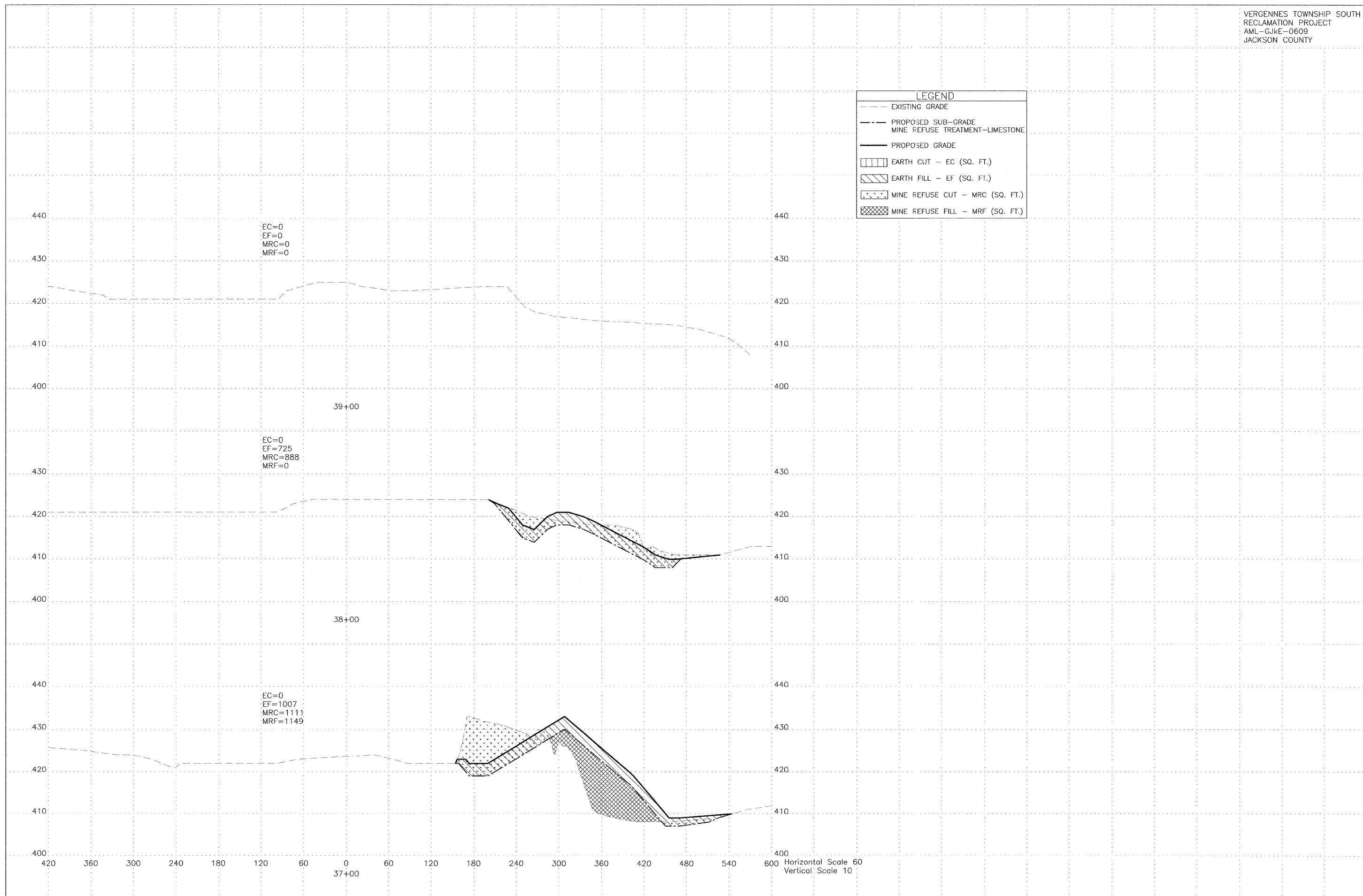
- EXISTING GRADE
- PROPOSED SUB-GRADE
- MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- ▤ EARTH CUT - EC (SQ. FT.)
- ▥ EARTH FILL - EF (SQ. FT.)
- ⋯ MINE REFUSE CUT - MRC (SQ. FT.)
- ▩ MINE REFUSE FILL - MRF (SQ. FT.)

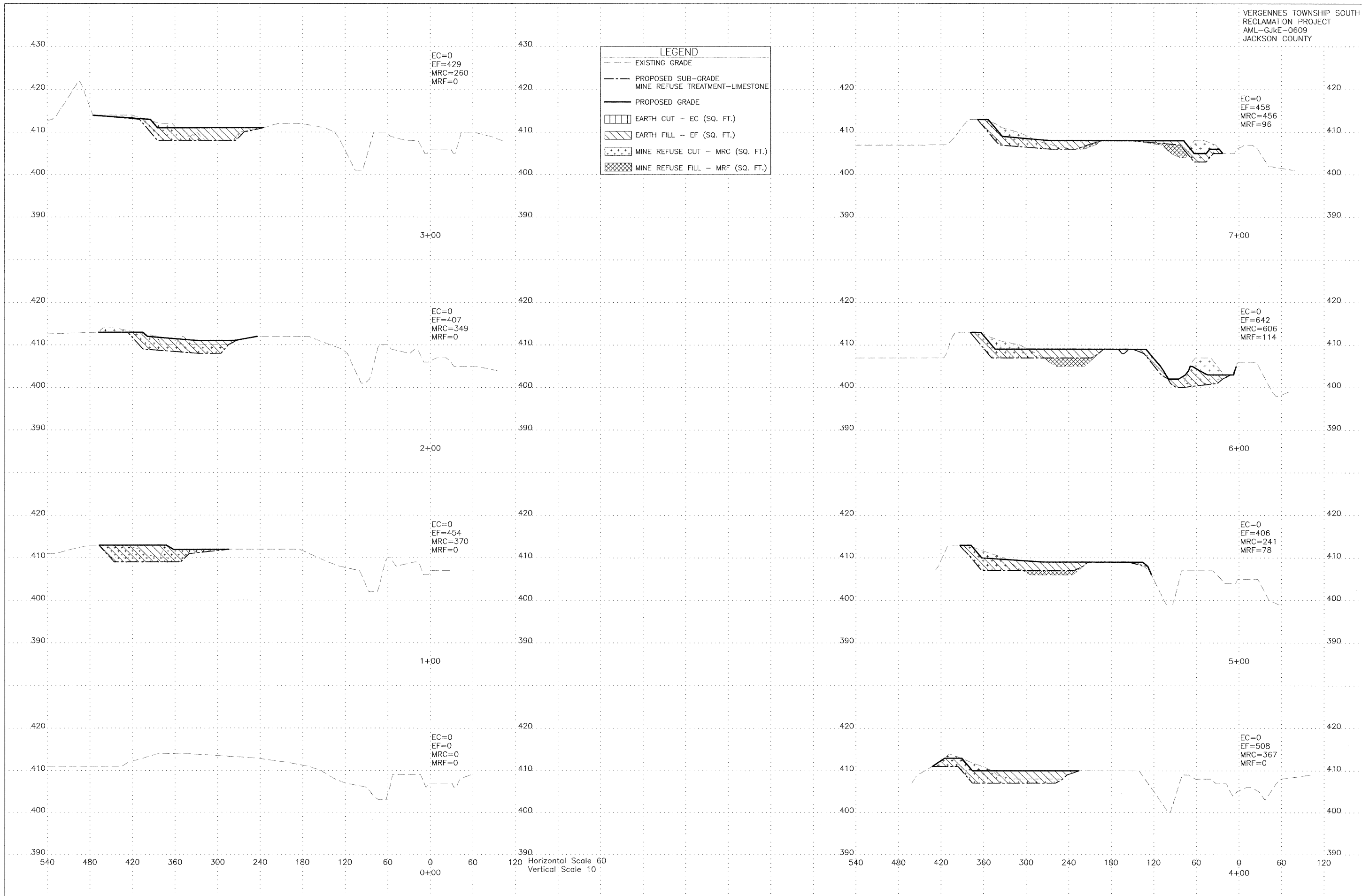
Horizontal Scale 60
 Vertical Scale 10

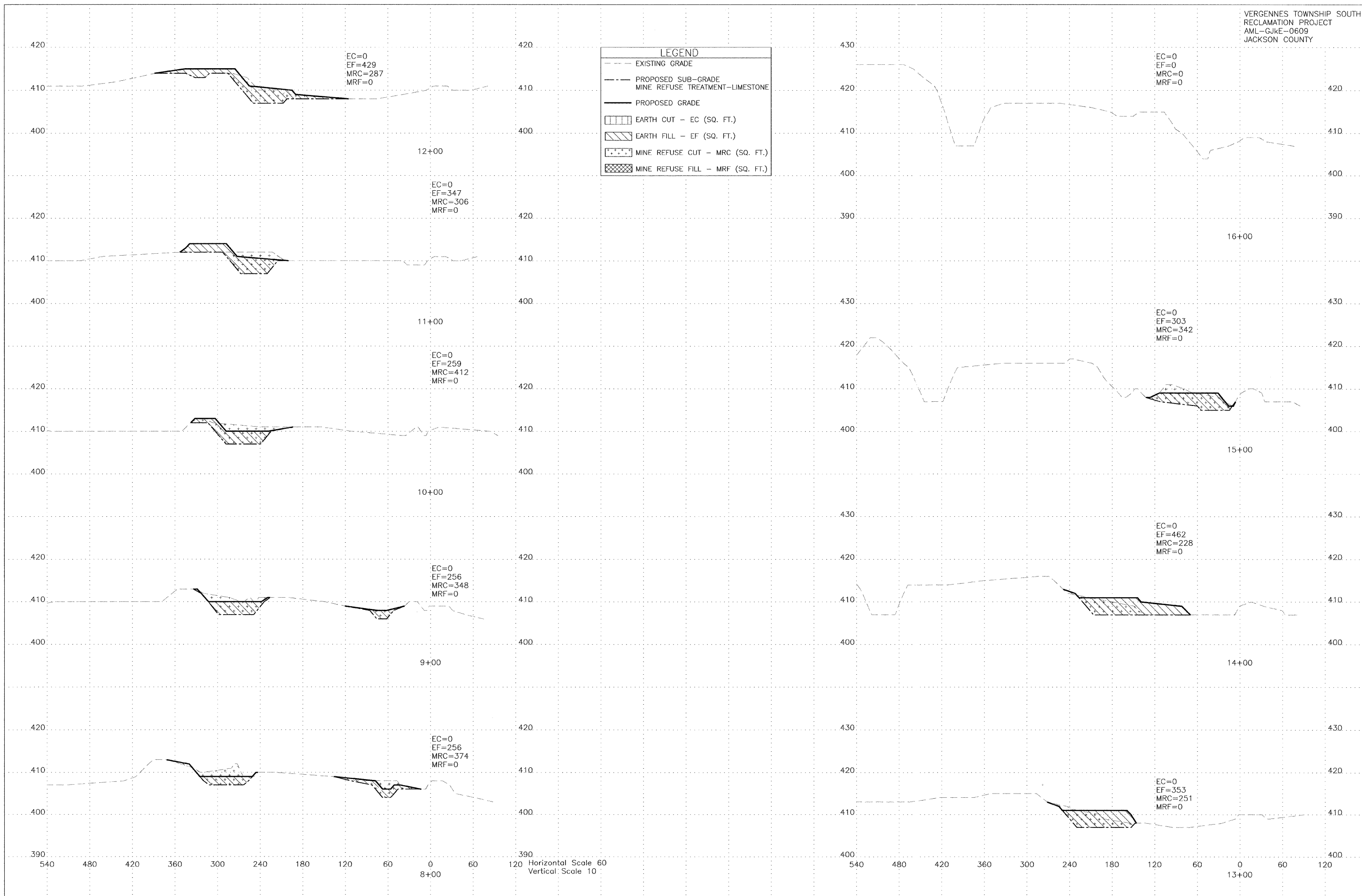


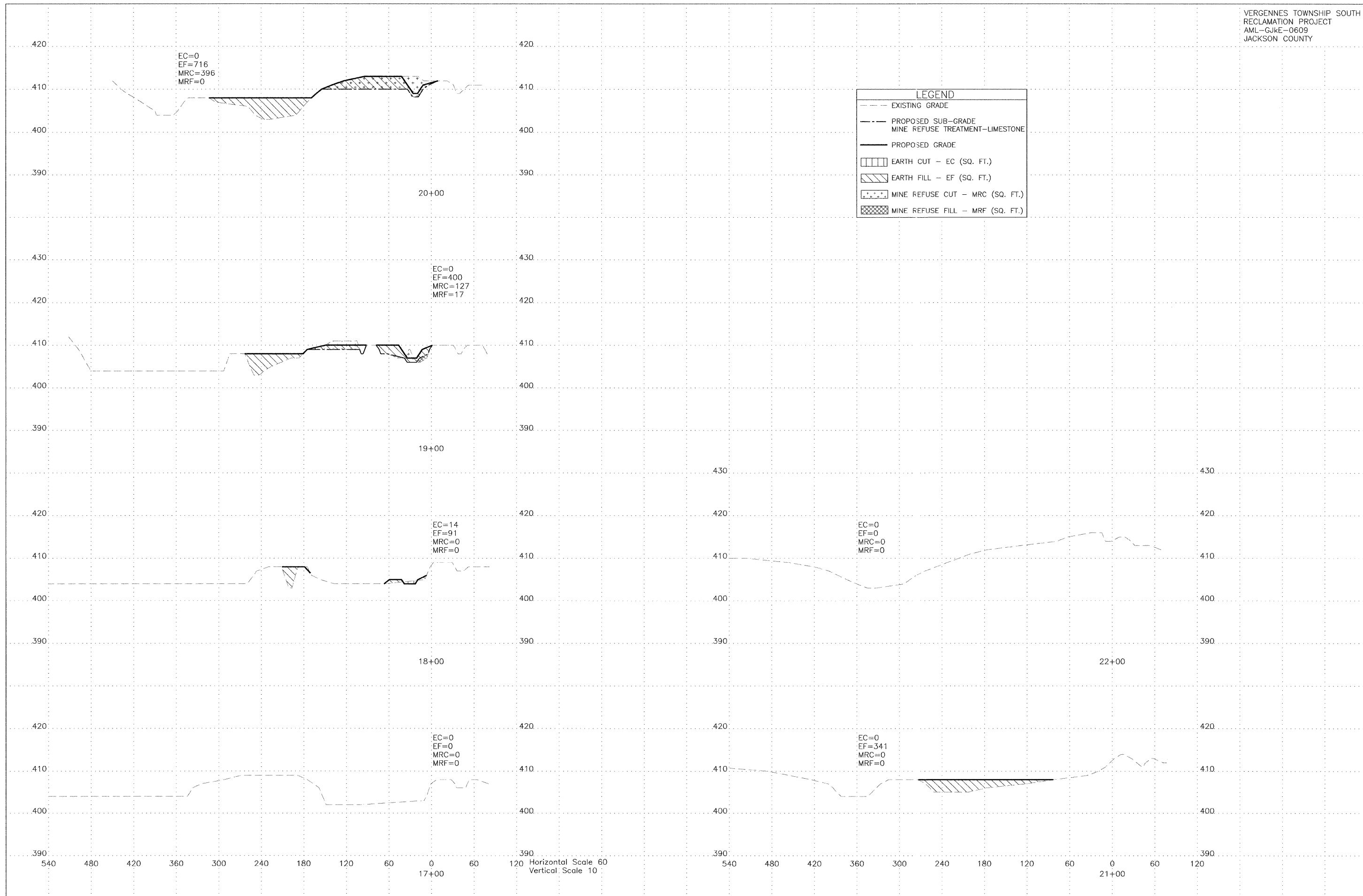













SPACING LETTERS

| | |
|------|------|
| 2.0" | |
| 1.5" | 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

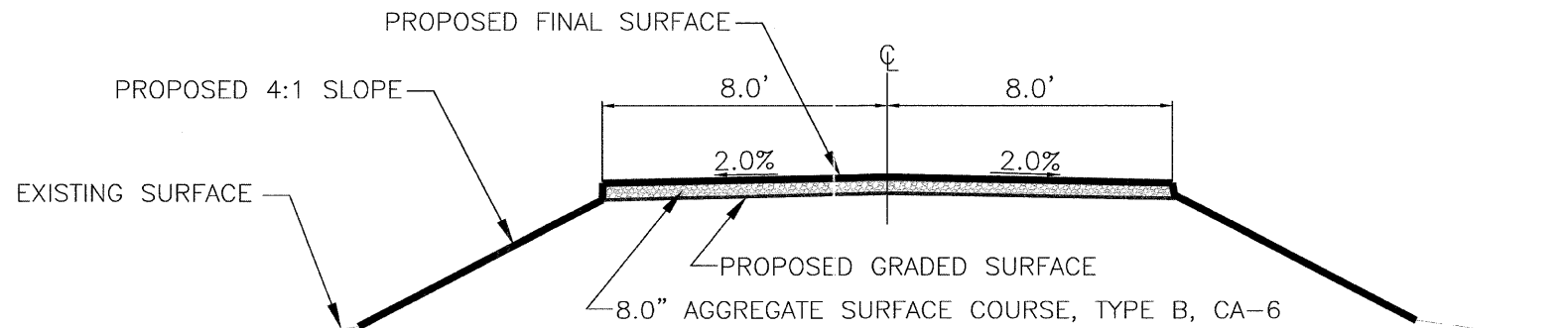
 Sam Flood, Acting Director
Department of Natural Resources

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.

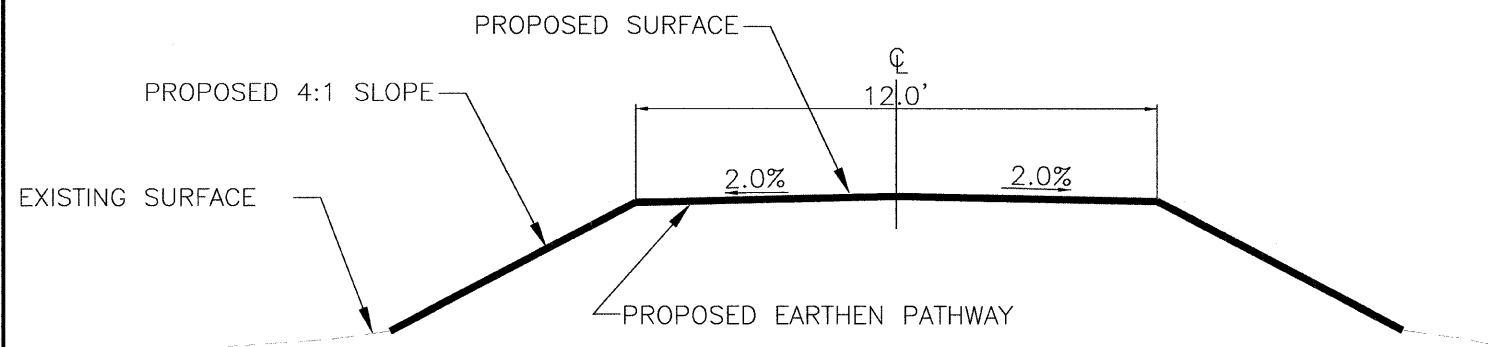
CONSTRUCTION SIGN DETAIL

DETAIL A-43, NOT TO SCALE, EXACT LOCATION TO BE SET BY ENGINEER



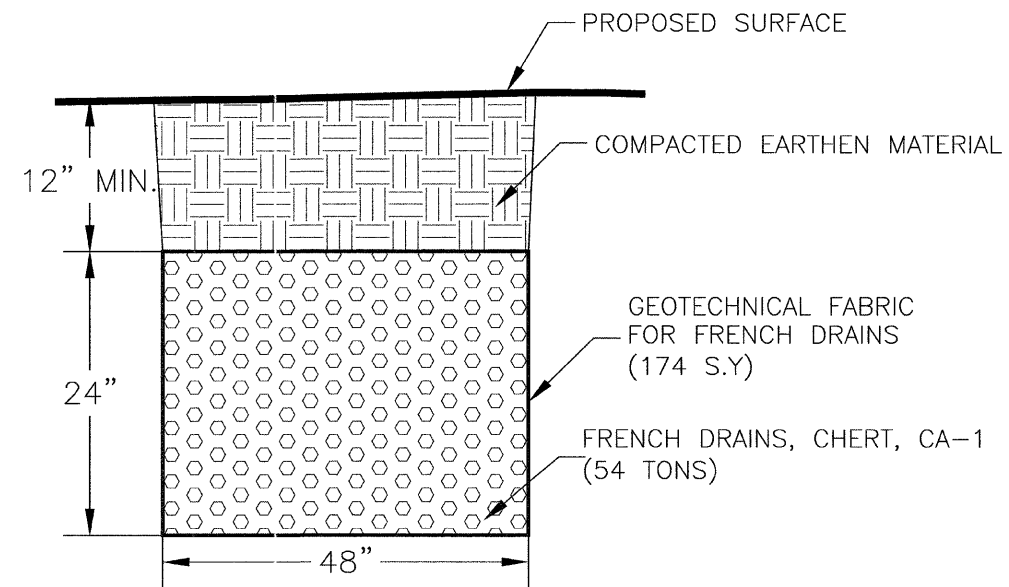
TYPICAL HAUL ROAD SECTION DETAIL

DETAIL B-43 - NOT TO SCALE



TYPICAL SPUR ROAD SECTION DETAIL

DETAIL C-43 - NOT TO SCALE



FRENCH DRAIN DETAIL

DETAIL D-43 - NOT TO SCALE

State of Illinois
Department of Natural Resources

Vergennes Township South
Reclamation Project
AML-GJKE-0609
Jackson County

Date: 07-30-08
Drawn By: OMA
Checked By:

Details Sheet

Sheet 43 of 43