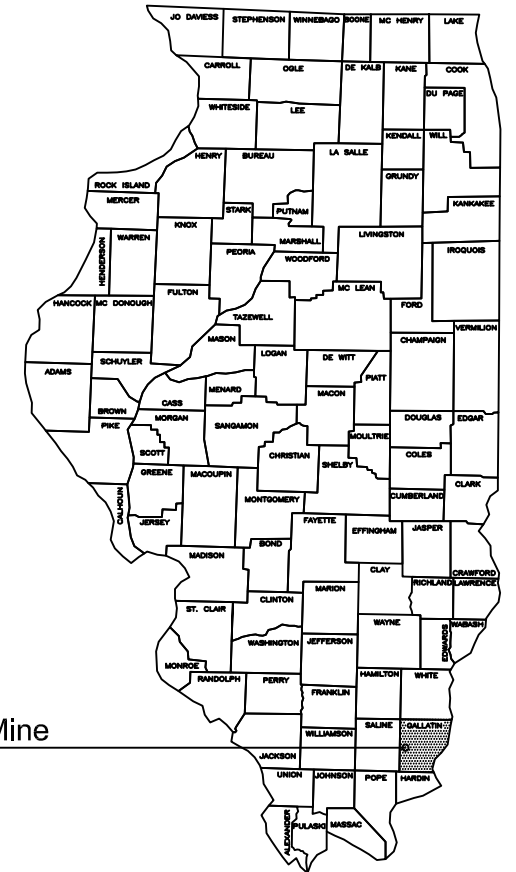


State of Illinois
Department of Natural Resources
 Office of Mines and Minerals
 Division of Abandoned Mined Lands Reclamation

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

**Marshall Equipment Mary Ann 2 Mine
 Reclamation Project
 AML-GGaE-1412
 Gallatin County
 1LR**



Certified Copy

Marshall Equipment Mary Ann 2 Mine
 Gallatin County

PRE-BID MEETING

A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT ON WEDNESDAY, APRIL 15, 2015 AT 10:00 A.M. AT THE INTERSECTION OF THREE MILES CARNAHAN ROAD AND THE ACCESS FIELD ROAD (SEE SHEET 3 FOR LOCATION). ALL PRIME AND SUBCONTRACTORS ARE ENCOURAGED TO ATTEND.

SCHEDULE OF DRAWINGS:

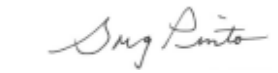
1. Cover Sheet
2. Summary of Quantities / General Notes / Location Map
3. Site Information
4. Existing Conditions
5. Proposed Conditions
- 6.-16. Cross Sections

Prepared By IDNR Staff

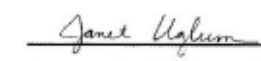
Approved for Bidding:


 James Hafliker, Director
 Office of Mines and Minerals

Approved By:


 J. Gregory Pinto, Acting Manager
 AMLR Division

Approved By:


 Janet L. Uglum, P.E.
 IL Licensed Professional Engineer
 No. 062-054108



CONTRACT NO. M1412

Summary of Quantities						
Item No.	#	Item	Section	Quantity	Unit	Rates/Remarks
NRM20110	1	SPECIAL CLEARING	201	1	L SUM	
NRM20210	2	EARTH EXCAVATION	202	14,321	CU YD	COMPACTION IN ACCORDANCE WITH SECTION 205 OF SPECIAL PROVISIONS
NRM20220	3	ROCK EXCAVATION	202	50,314	CU YD	
NRM25040	4	NITROGEN FERTILIZER NUTRIENT	250	1,680	POUND	100 LB / ACRE TWICE
NRM25050	5	PHOSPORUS FERTILIZER NUTRIENT	250	1,176	POUND	140 LB / ACRE
NRM25060	6	POTASSIUM FERTILIZER NUTRIENT	250	2,520	POUND	300 LB / ACRE
NRM25070	7	AGRICULTURAL GROUND LIMESTONE	250	67.2	TON	8 TON / ACRE
NRM25090	8	SEEDING	250	8.4	ACRE	
25100115	9	MULCH, METHOD 2, PROCEDURE 1	IDOT 251	8.4	ACRE	2 TON / ACRE
NRM25810	10	MOWING	258	8.4	ACRE	10 TON / ACRE
28100205	11	STONE RIPRAP, CLASS A3	IDOT 281	391.2	TON	
NRM28610	12	SPECIAL EXCELSIOR BLANKET	286	1,156	SQ YD	8 FT WIDTH
40200800	13	AGGREGATE SURFACE COURSE, TYPE B	IDOT 402	129.5	TON	CA-6
NRM61410	14	DEWATERING IMPOUNDMENTS	614	1	L SUM	
NRM67110	15	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.

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

ROCK EXCAVATION - All Rock Excavation shall be designed and performed to minimize damage to, and preserve the stability of, the remaining unexcavated rock; and ensure there are no damages to off-site structures, property or utilities. Any blasting the Contractor chooses to perform shall be conducted only between the hours of 8:00 am and 6:00 pm.

BURIAL/REMOVAL OF MATERIAL - Concrete and masonry debris designated for burial by the engineer shall be buried at least two 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.

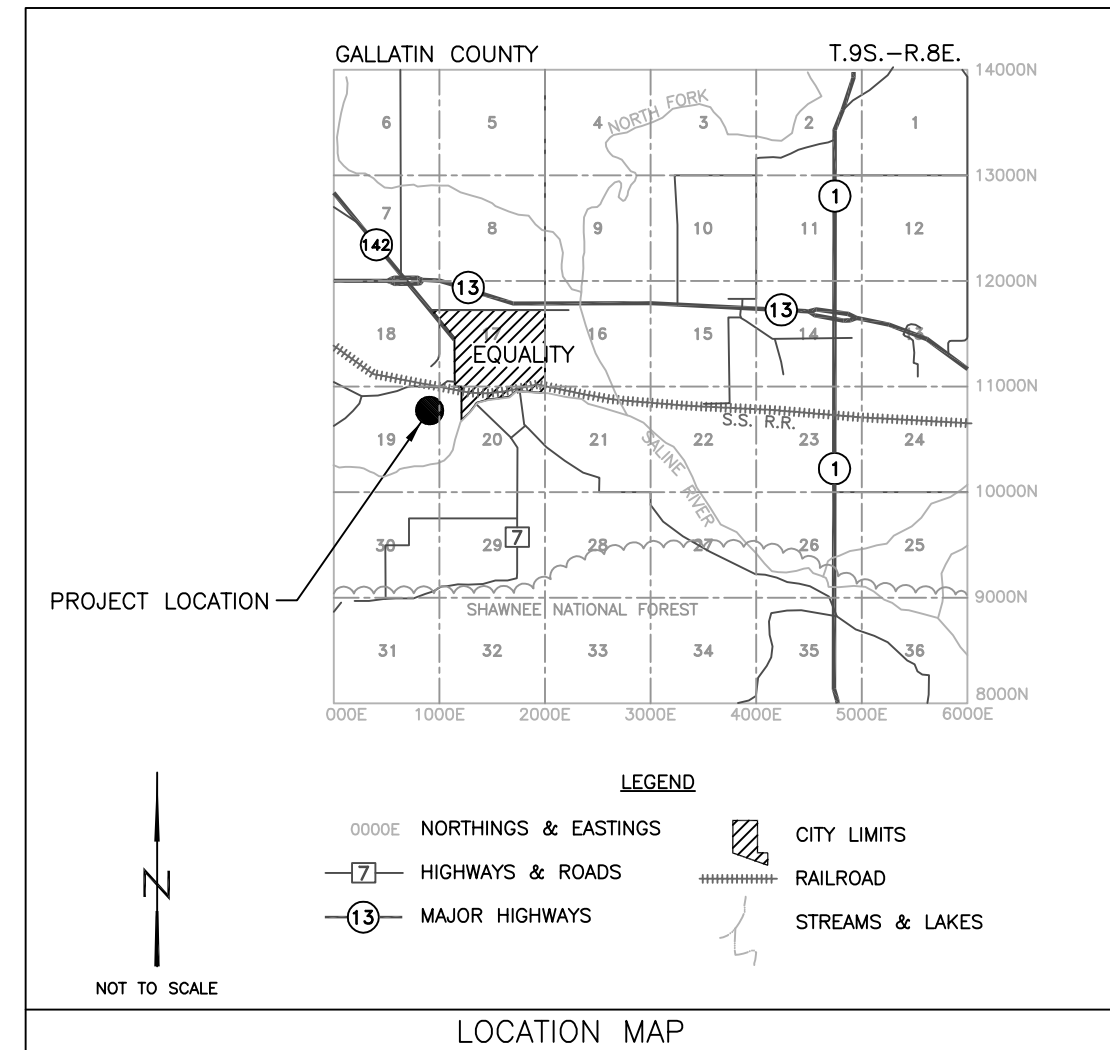
TREE REMOVAL - Trees cleared from the site shall be disposed of onsite per Section 201 of the Special Provisions. No clearing of trees outside the construction limits may occur. Special Clearing shall only be performed to the extent needed to perform the contract work.

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.

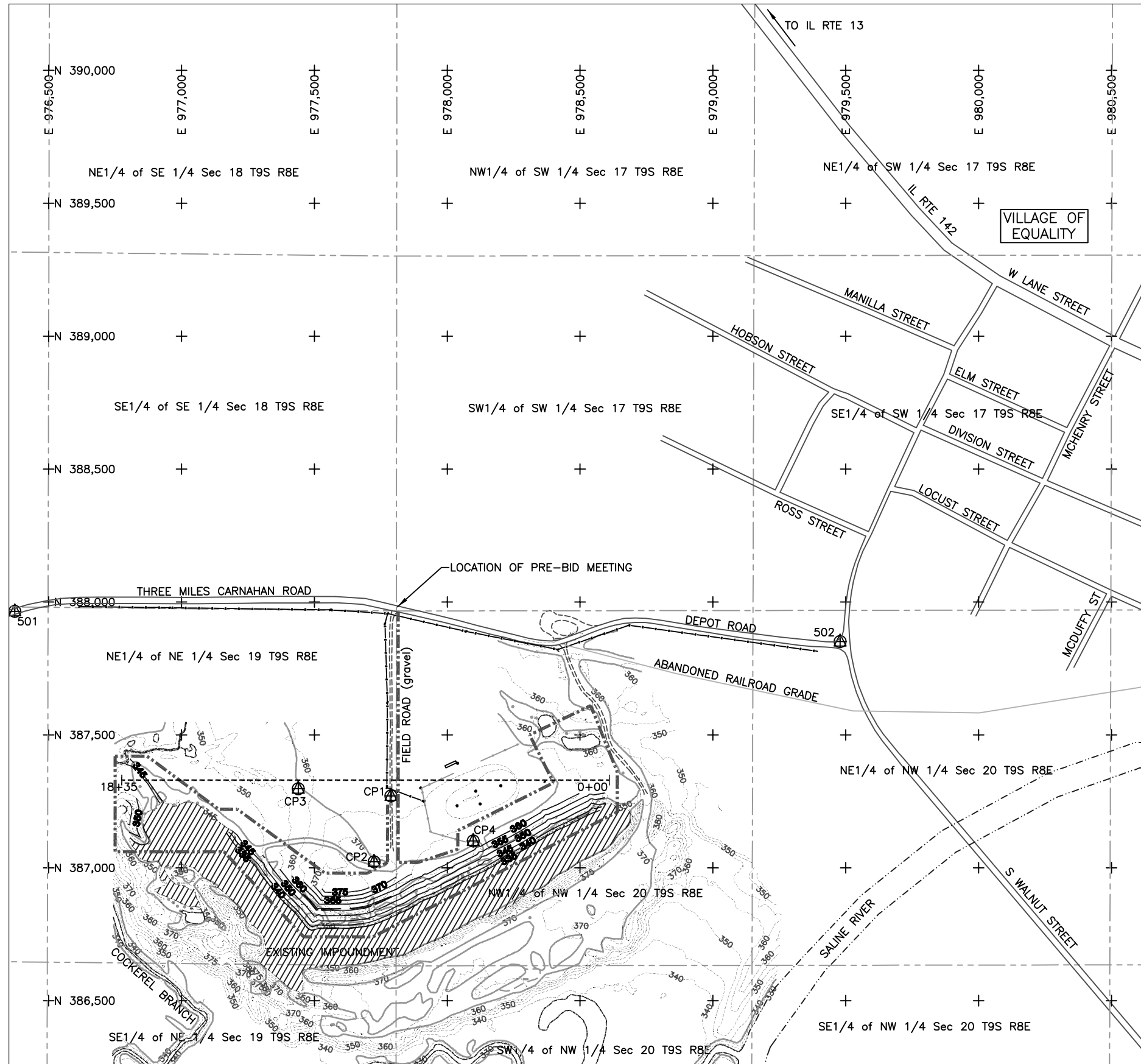
EROSION CONTROL - The contractor shall schedule his operations and take such precautions that may be necessary to prevent or minimize erosion. Failure to comply with this requirement shall cause the contractor to be fully responsible for repairing any eroded areas and cleaning up areas or drainage structures 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 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.



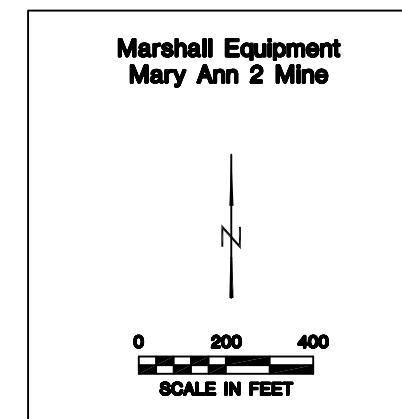
Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing				
ITEM (unit)	INITIAL APPLICATION FALL 2015 AUG 20 - SEPT 30	SECOND APPLICATION SPRING 2016 JAN 1 - MARCH 15	MOWING	TOTAL QUANTITY
SEEDING (acres)	8.4		EXACT DATE TO BE SET BY ENGINEER	8.4
AGRICULTURAL GROUND LIMESTONE (tons)	67.2			67.2
NITROGEN FERTILIZER NUTRIENT (pounds)	840	840		1,680
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	1,176			1,176
POTASSIUM FERTILIZER NUTRIENT (pounds)	2,520			2,520
MULCH, METHOD 2 PROCEDURE 1 (acres)	8.4			8.4
MOWING (acres)			8.4	8.4



POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
501	387,964.86	976,372.51	356.83	PK NAIL SET IN PAVEMENT
502	387,851.19	979,478.45	361.96	PK NAIL SET IN PAVEMENT
CP 1	387,270.13	977,788.10	364.68	IRON REBAR
CP 2	387,022.38	977,724.82	371.90	IRON REBAR
CP 3	387,297.18	977,439.32	357.78	IRON REBAR
CP 4	387,100.73	978,097.91	362.17	IRON REBAR

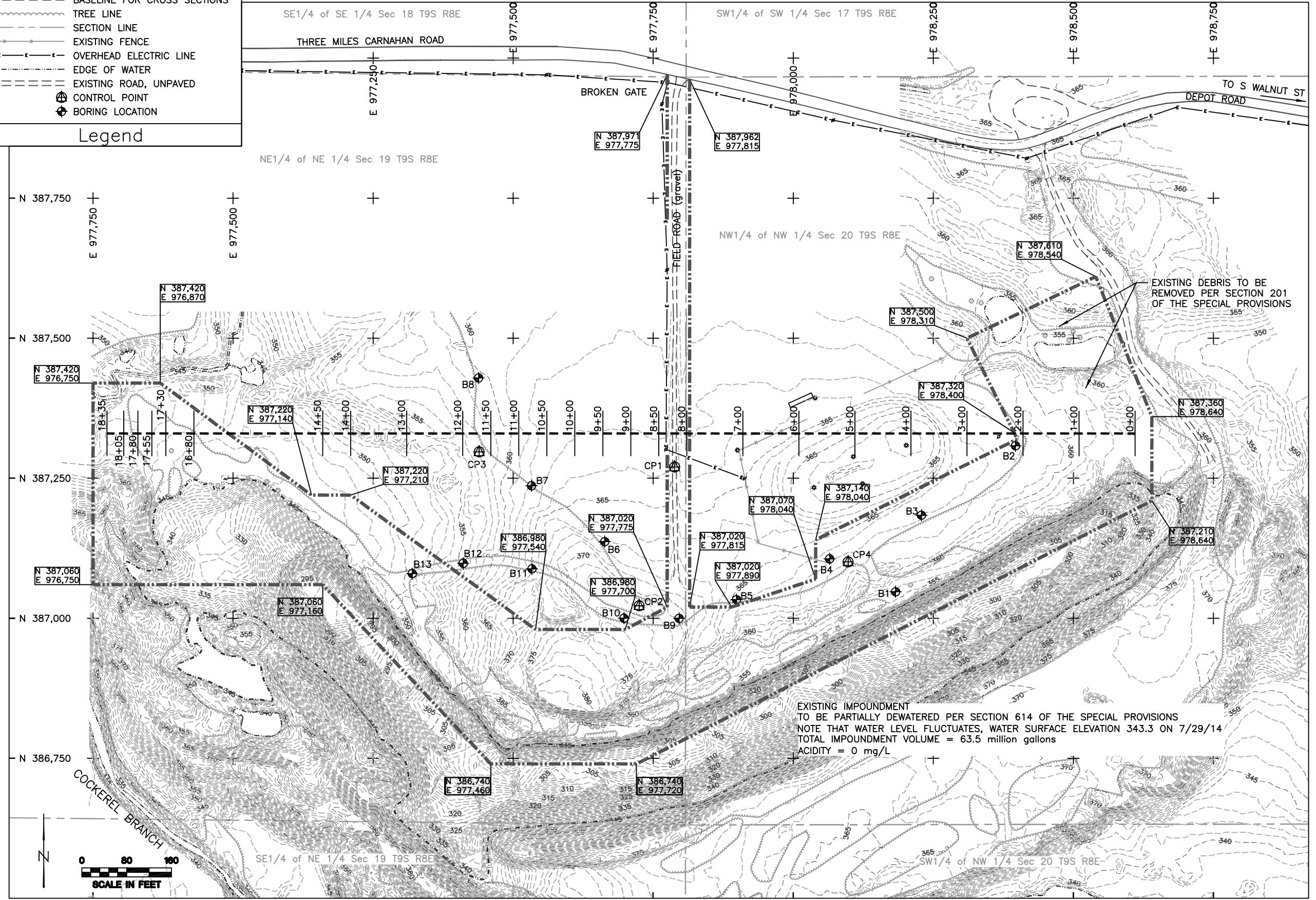
BASELINE INFORMATION		
STA	NORTHING	EASTING
0+00	387,330	976,780
18+30	387,330	978,610

Legend	
	EXISTING CONTOUR (5' INTERVAL)
	PROPOSED CONTOUR (5' INTERVAL)
	PROPOSED CONSTRUCTION LIMITS
	BASELINE FOR CROSS SECTIONS
	TREE LINE
	SECTION LINE
	EXISTING FENCE
	OVERHEAD ELECTRIC LINE
	EDGE OF WATER
	EXISTING ROAD, UNPAVED
	CONTROL POINT



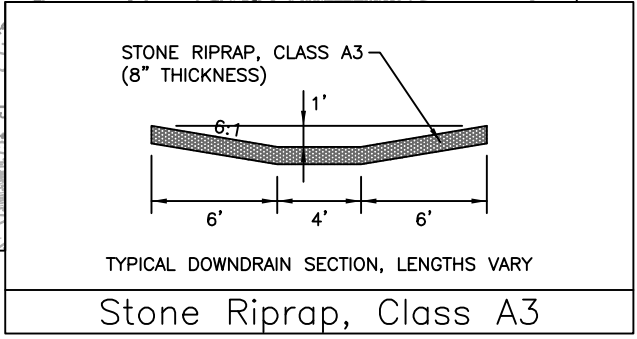
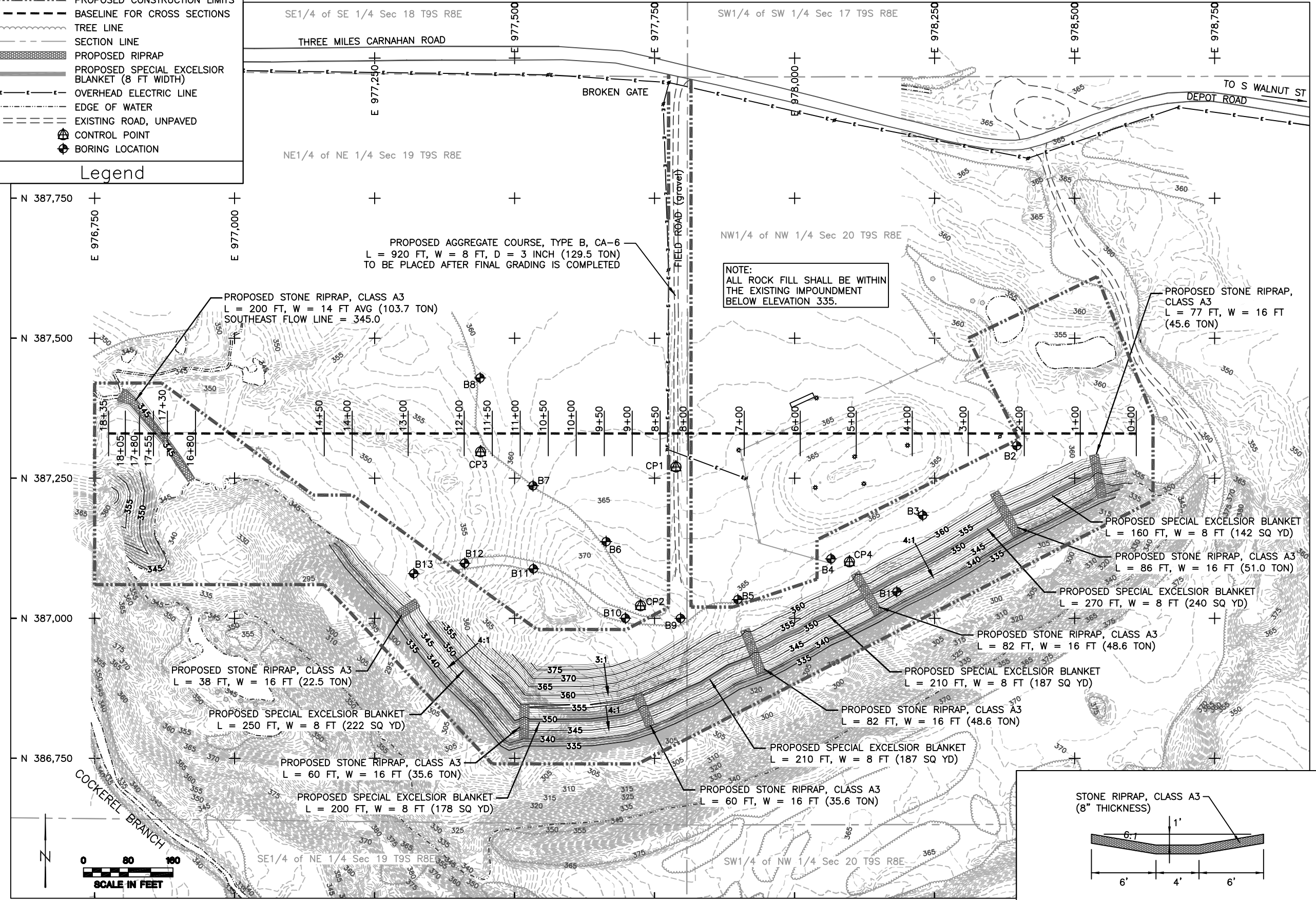
Legend

- 360 --- EXISTING CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- - - - - BASELINE FOR CROSS SECTIONS
- ~~~~~ TREE LINE
- - - - - SECTION LINE
- EXISTING FENCE
- OVERHEAD ELECTRIC LINE
- EDGE OF WATER
- EXISTING ROAD, UNPAVED
- ⊙ CONTROL POINT
- ⊕ BORING LOCATION

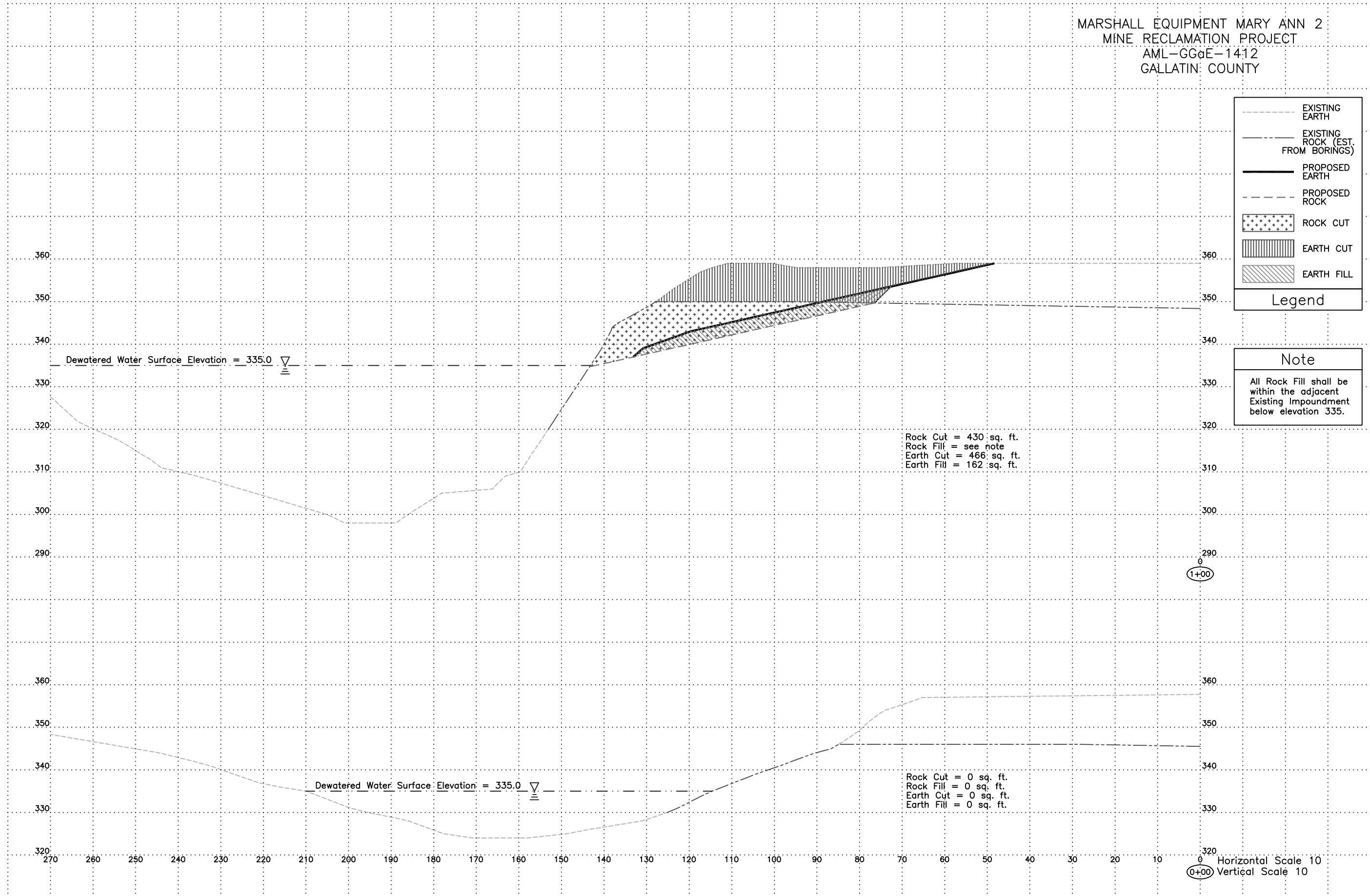


Legend

- 360 --- EXISTING CONTOUR
- 350 --- PROPOSED CONTOUR
- PROPOSED CONSTRUCTION LIMITS
- BASELINE FOR CROSS SECTIONS
- TREE LINE
- SECTION LINE
- PROPOSED RIPRAP
- PROPOSED SPECIAL EXCELSIOR BLANKET (8 FT WIDTH)
- OVERHEAD ELECTRIC LINE
- EDGE OF WATER
- EXISTING ROAD, UNPAVED
- ⊕ CONTROL POINT
- ⊕ BORING LOCATION



MARSHALL EQUIPMENT MARY ANN 2
 MINE RECLAMATION PROJECT
 AML-GG&E-1412
 GALLATIN COUNTY



Legend

- EXISTING EARTH
- EXISTING ROCK (EST. FROM BORINGS)
- PROPOSED EARTH
- PROPOSED ROCK
- [Dotted Pattern] ROCK CUT
- [Vertical Hatching] EARTH CUT
- [Diagonal Hatching] EARTH FILL

Note

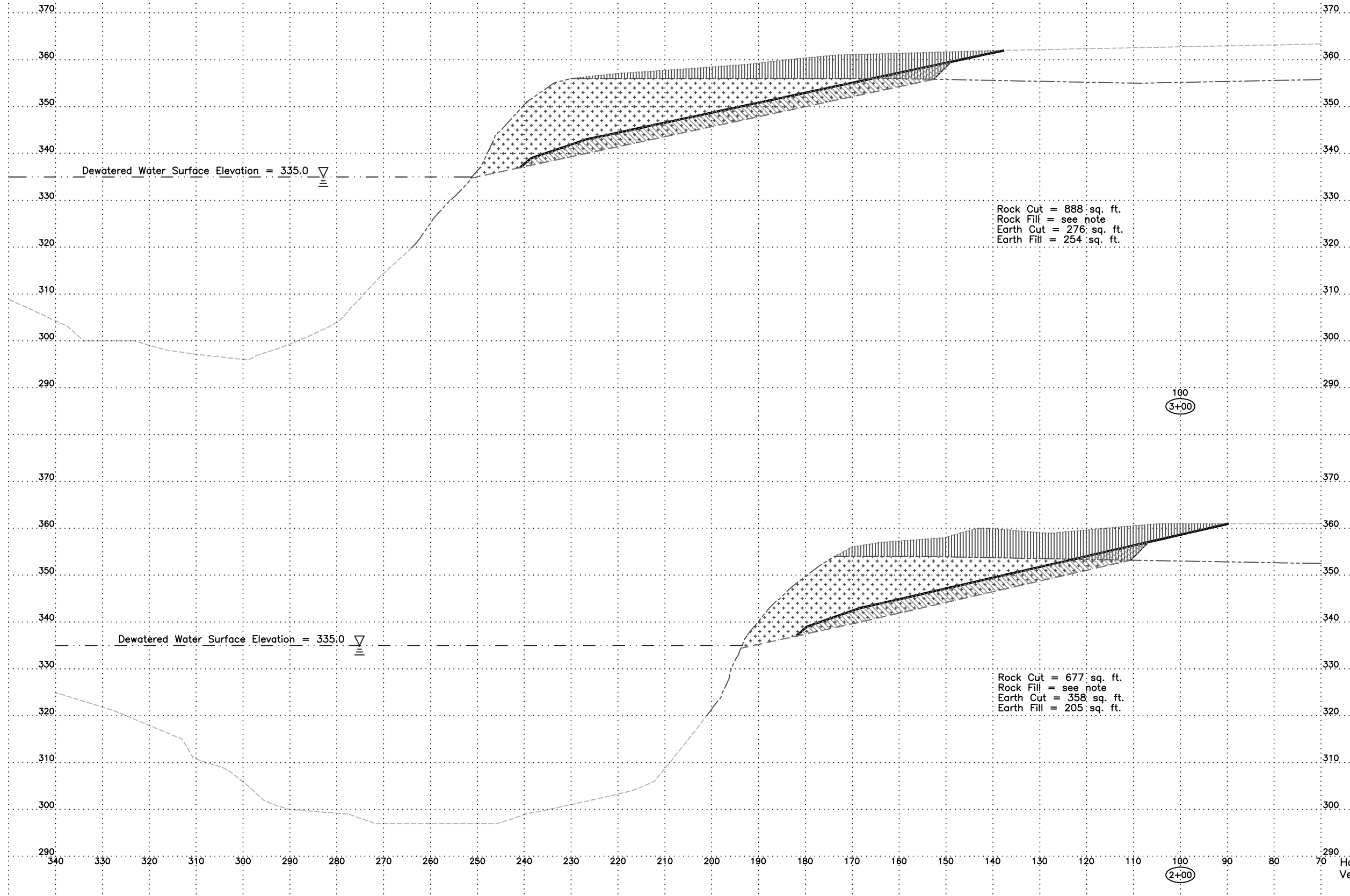
All Rock Fill shall be within the adjacent Existing Impoundment below elevation 335.

Rock Cut = 430 sq. ft.
 Rock Fill = see note
 Earth Cut = 466 sq. ft.
 Earth Fill = 162 sq. ft.

Rock Cut = 0 sq. ft.
 Rock Fill = 0 sq. ft.
 Earth Cut = 0 sq. ft.
 Earth Fill = 0 sq. ft.

Horizontal Scale 10
 Vertical Scale 10

MARSHALL EQUIPMENT MARY ANN 2
 MINE RECLAMATION PROJECT
 AML-GG&E-1412
 GALLATIN COUNTY



Rock Cut = 888 sq. ft.
 Rock Fill = see note
 Earth Cut = 276 sq. ft.
 Earth Fill = 254 sq. ft.

Rock Cut = 677 sq. ft.
 Rock Fill = see note
 Earth Cut = 358 sq. ft.
 Earth Fill = 205 sq. ft.

Legend

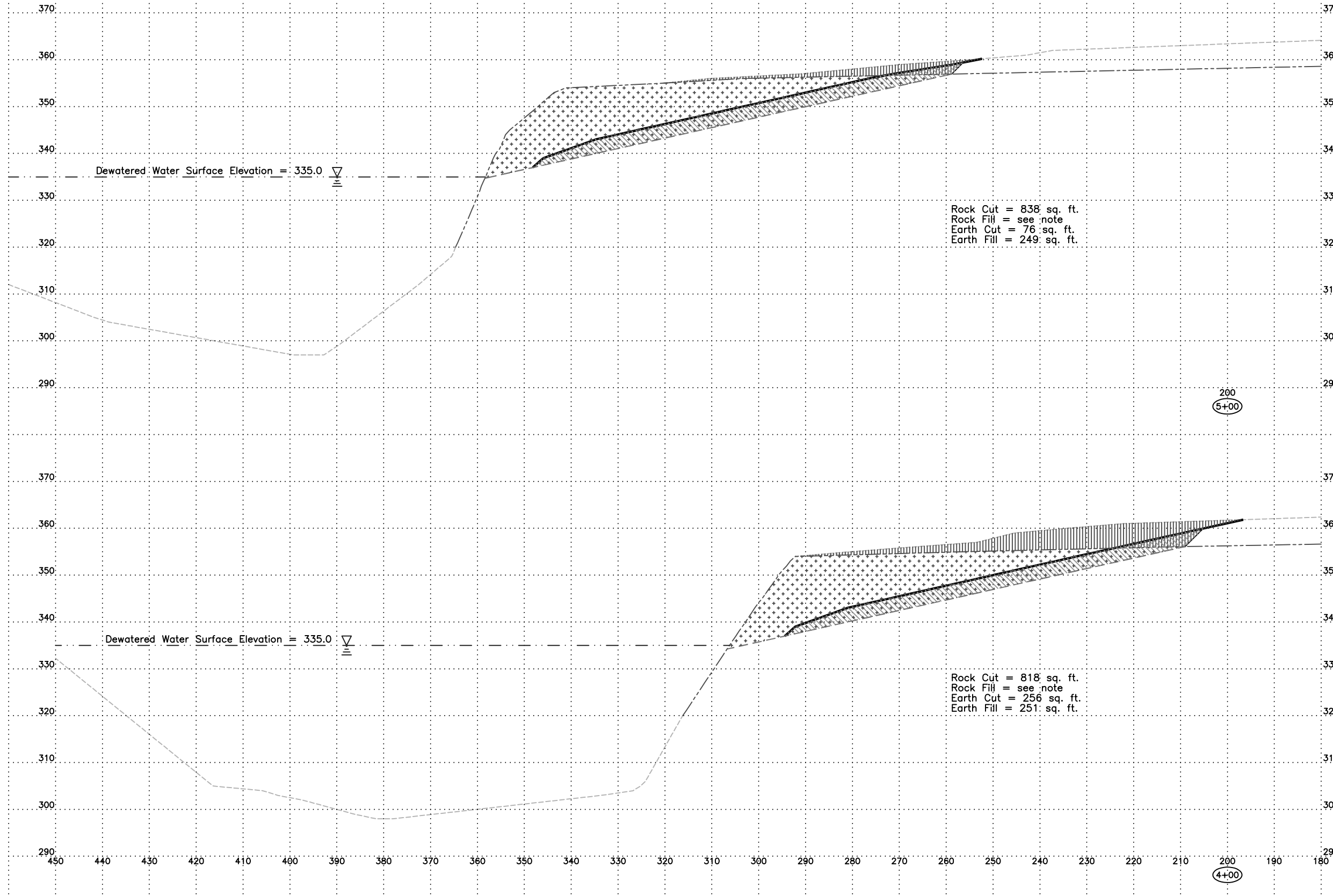
- EXISTING EARTH
- EXISTING ROCK (EST. FROM BORINGS)
- PROPOSED EARTH
- PROPOSED ROCK
- [Cross-hatched] ROCK CUT
- [Vertical lines] EARTH CUT
- [Diagonal lines] EARTH FILL

Note

All Rock Fill shall be within the adjacent Existing Impoundment below elevation 335.

Horizontal Scale 10
 Vertical Scale 10

MARSHALL EQUIPMENT MARY ANN 2
MINE RECLAMATION PROJECT
AML-GG&E-1412
GALLATIN COUNTY



Legend

- EXISTING EARTH
- EXISTING ROCK (EST. FROM BORINGS)
- PROPOSED EARTH
- PROPOSED ROCK
- [Stippled Box] ROCK CUT
- [Vertical Line Box] EARTH CUT
- [Diagonal Line Box] EARTH FILL

Note

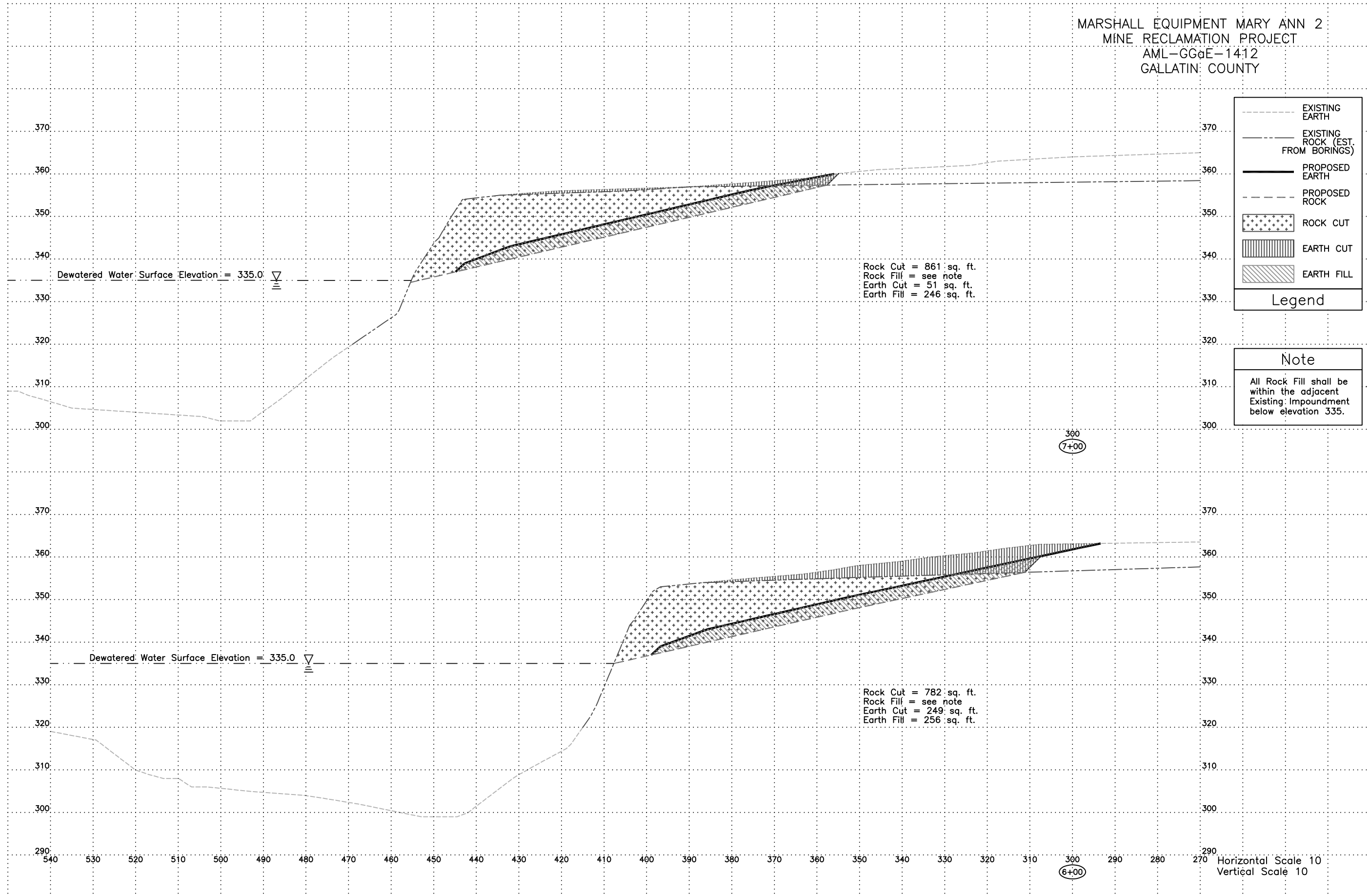
All Rock Fill shall be within the adjacent Existing Impoundment below elevation 335.

200
5+00

200
4+00

Horizontal Scale 10
Vertical Scale 10

MARSHALL EQUIPMENT MARY ANN 2
 MINE RECLAMATION PROJECT
 AML-GG&E-1412
 GALLATIN COUNTY



Dewatered Water Surface Elevation = 335.0

Rock Cut = 861 sq. ft.
 Rock Fill = see note
 Earth Cut = 51 sq. ft.
 Earth Fill = 246 sq. ft.

	EXISTING EARTH
	EXISTING ROCK (EST. FROM BORINGS)
	PROPOSED EARTH
	PROPOSED ROCK
	ROCK CUT
	EARTH CUT
	EARTH FILL
Legend	

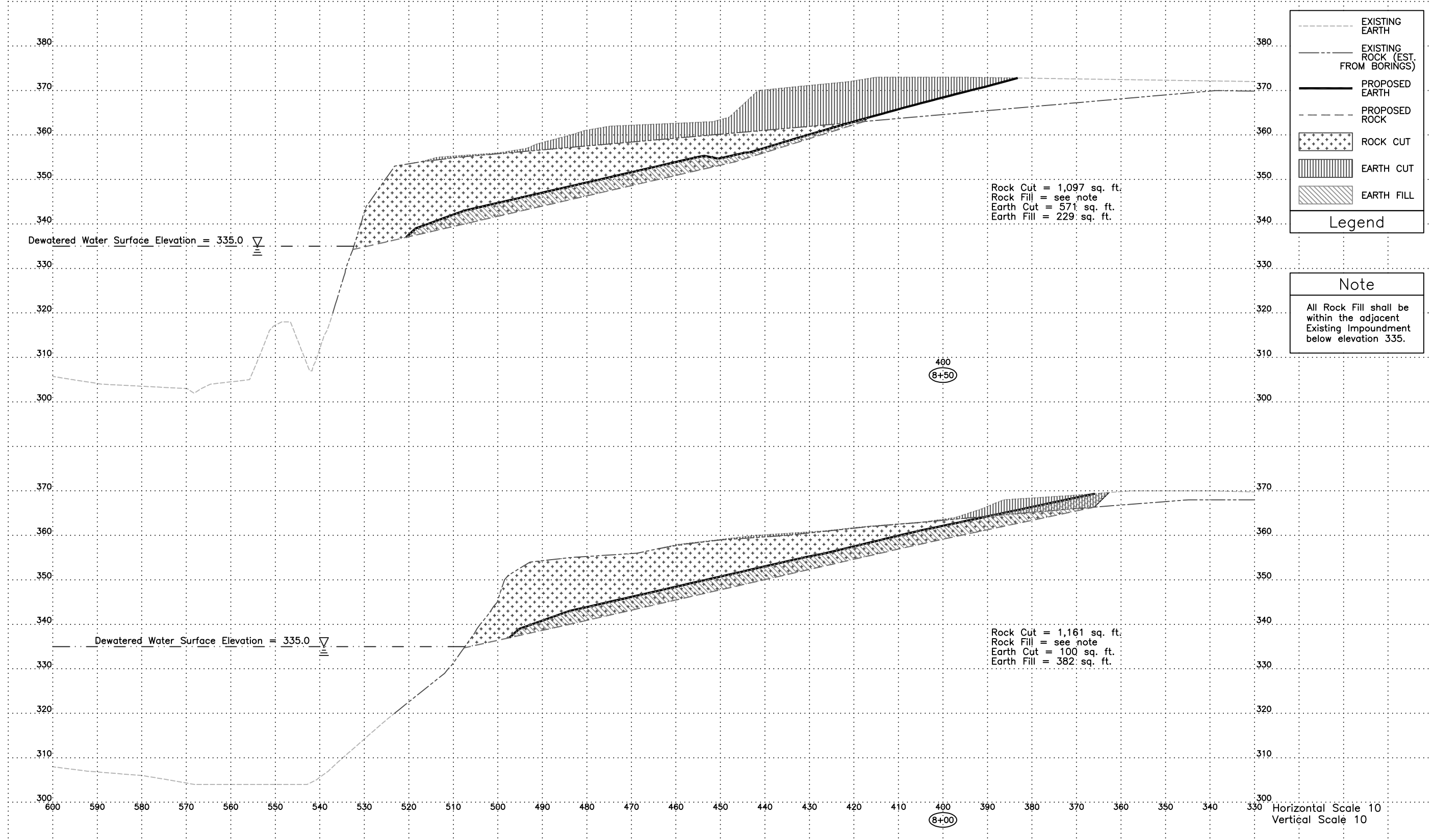
Note
 All Rock Fill shall be within the adjacent Existing Impoundment below elevation 335.

Dewatered Water Surface Elevation = 335.0

Rock Cut = 782 sq. ft.
 Rock Fill = see note
 Earth Cut = 249 sq. ft.
 Earth Fill = 256 sq. ft.

Horizontal Scale 10
 Vertical Scale 10

MARSHALL EQUIPMENT MARY ANN 2
 MINE RECLAMATION PROJECT
 AML-GG&E-1412
 GALLATIN COUNTY



Rock Cut = 1,097 sq. ft.
 Rock Fill = see note
 Earth Cut = 571 sq. ft.
 Earth Fill = 229 sq. ft.

Rock Cut = 1,161 sq. ft.
 Rock Fill = see note
 Earth Cut = 100 sq. ft.
 Earth Fill = 382 sq. ft.

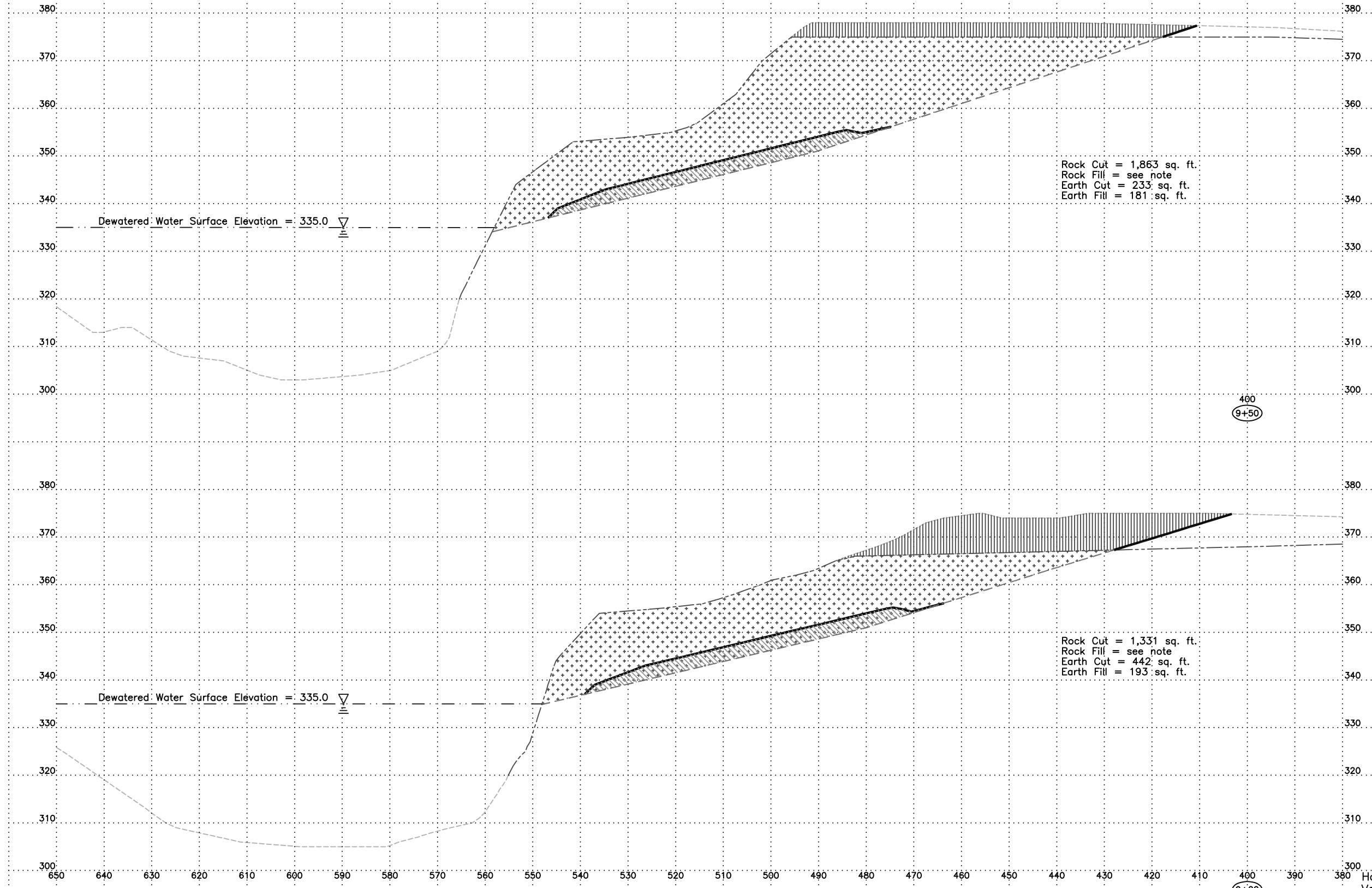
	EXISTING EARTH
	EXISTING ROCK (EST. FROM BORINGS)
	PROPOSED EARTH
	PROPOSED ROCK
	ROCK CUT
	EARTH CUT
	EARTH FILL
Legend	

Note

All Rock Fill shall be within the adjacent Existing Impoundment below elevation 335.

Horizontal Scale 10
 Vertical Scale 10

MARSHALL EQUIPMENT MARY ANN 2
MINE RECLAMATION PROJECT
AML-GG&E-1412
GALLATIN COUNTY



Legend

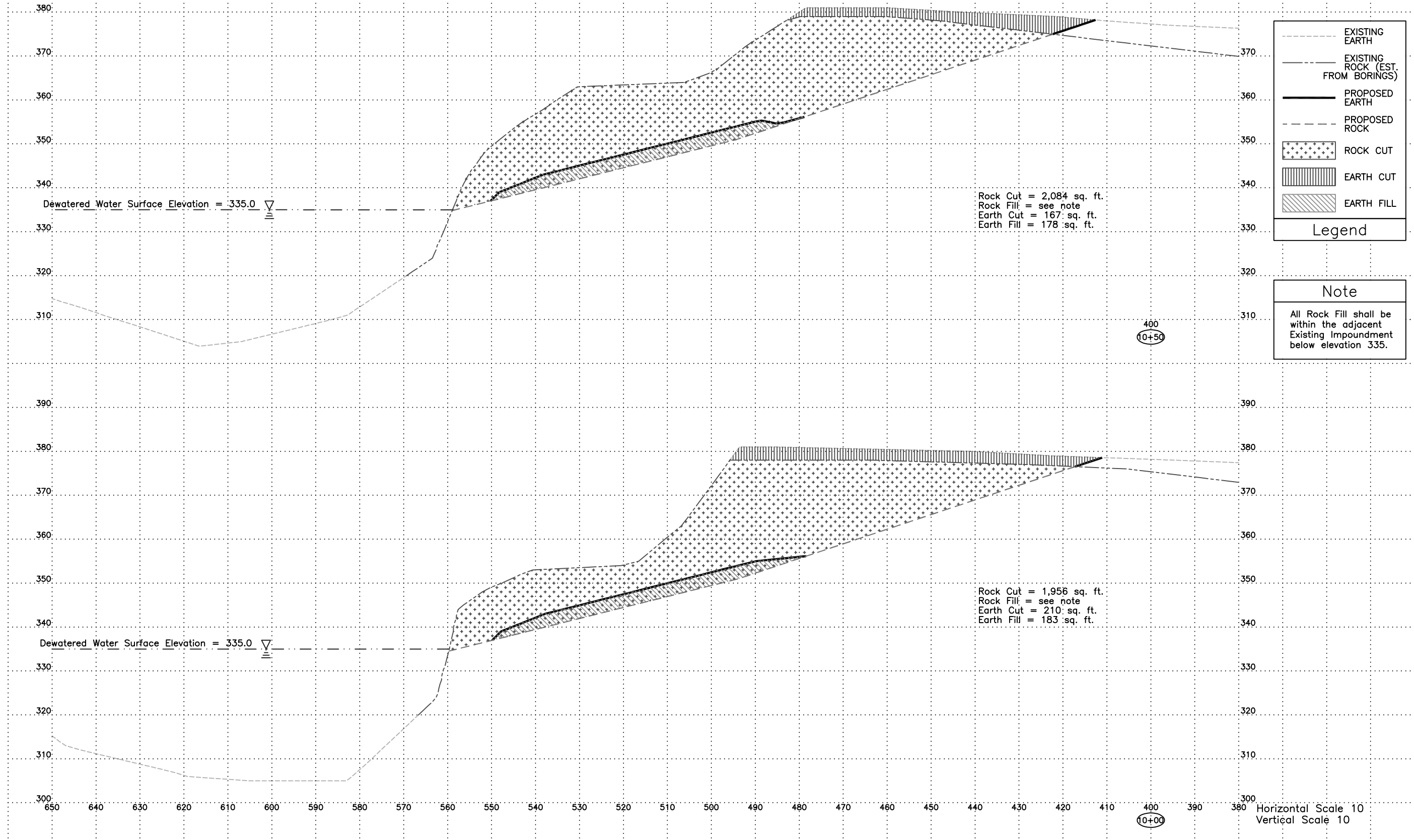
- EXISTING EARTH
- EXISTING ROCK (EST. FROM BORINGS)
- PROPOSED EARTH
- PROPOSED ROCK
- [Cross-hatched] ROCK CUT
- [Vertical lines] EARTH CUT
- [Diagonal lines] EARTH FILL

Note

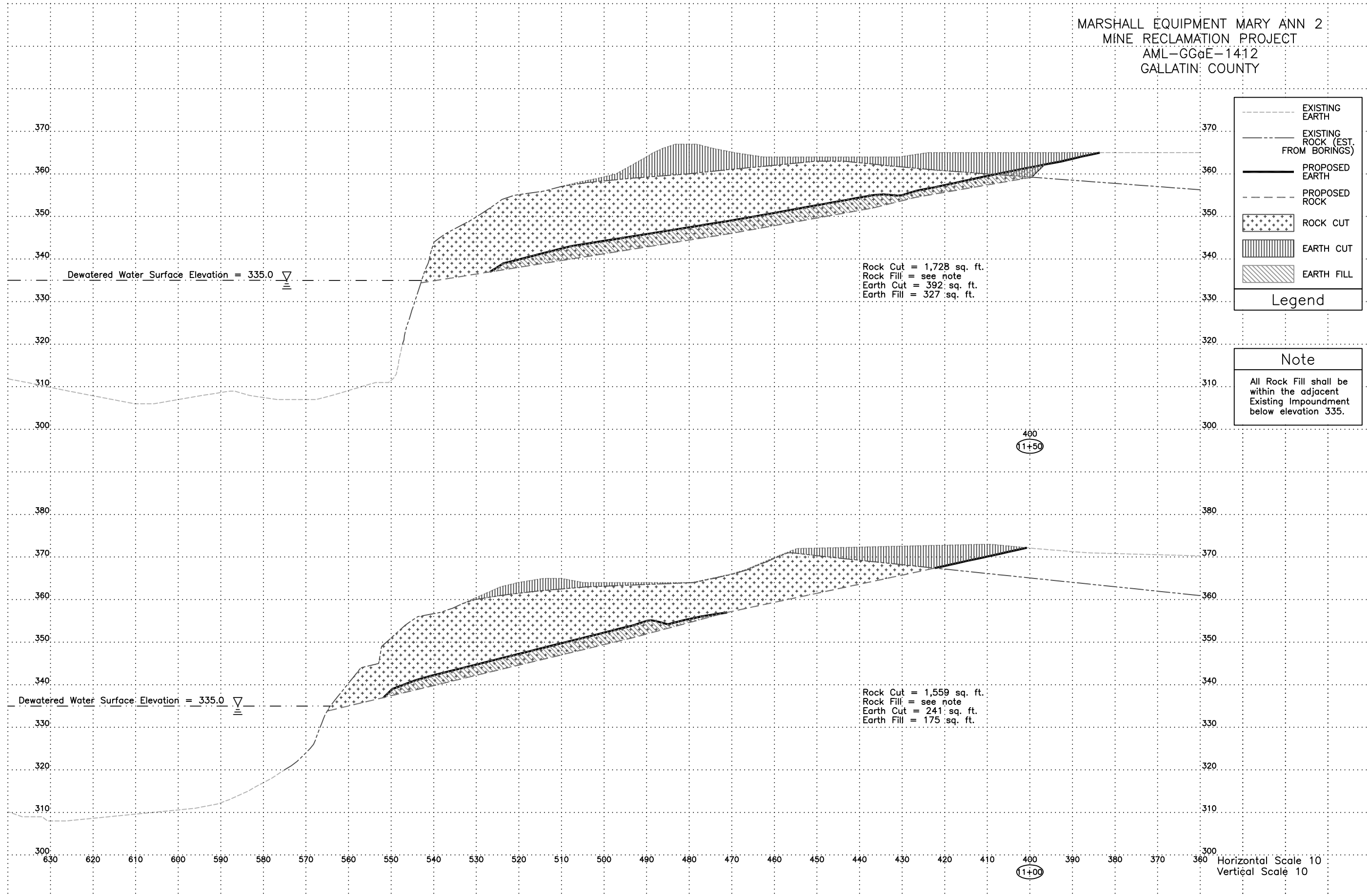
All Rock Fill shall be within the adjacent Existing Impoundment below elevation 335.

Horizontal Scale 10
Vertical Scale 10

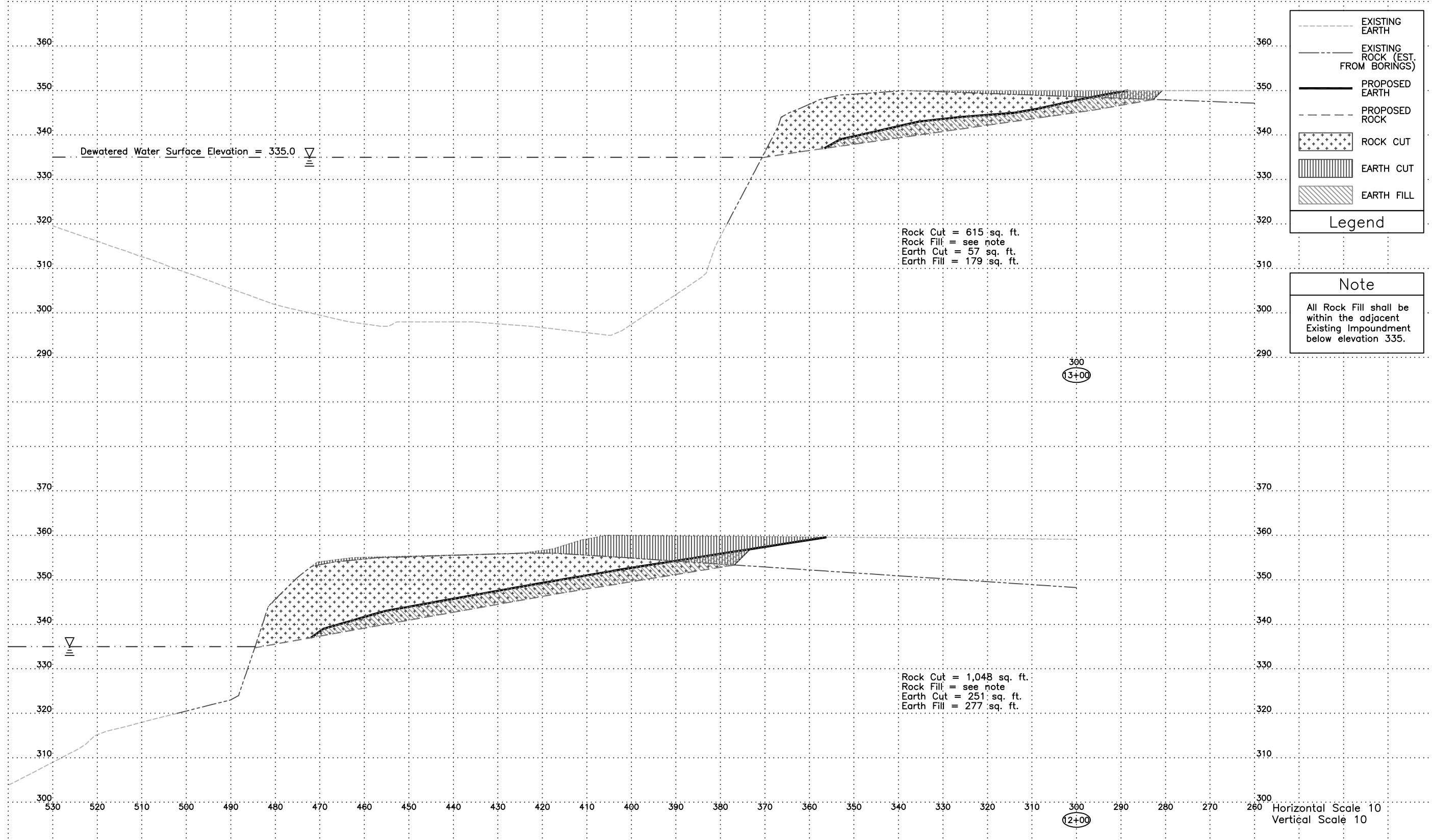
MARSHALL EQUIPMENT MARY ANN 2
MINE RECLAMATION PROJECT
AML-GG&E-1412
GALLATIN COUNTY



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AML-GG&E-1412
GALLATIN COUNTY



MARSHALL EQUIPMENT MARY ANN 2
MINE RECLAMATION PROJECT
AML-GG&E-1412
GALLATIN COUNTY



Dewatered Water Surface Elevation = 335.0

Rock Cut = 615 sq. ft.
Rock Fill = see note
Earth Cut = 57 sq. ft.
Earth Fill = 179 sq. ft.

Rock Cut = 1,048 sq. ft.
Rock Fill = see note
Earth Cut = 251 sq. ft.
Earth Fill = 277 sq. ft.

Legend

- EXISTING EARTH
- EXISTING ROCK (EST. FROM BORINGS)
- PROPOSED EARTH
- PROPOSED ROCK
- [Stippled] ROCK CUT
- [Vertical Hatching] EARTH CUT
- [Diagonal Hatching] EARTH FILL

Note

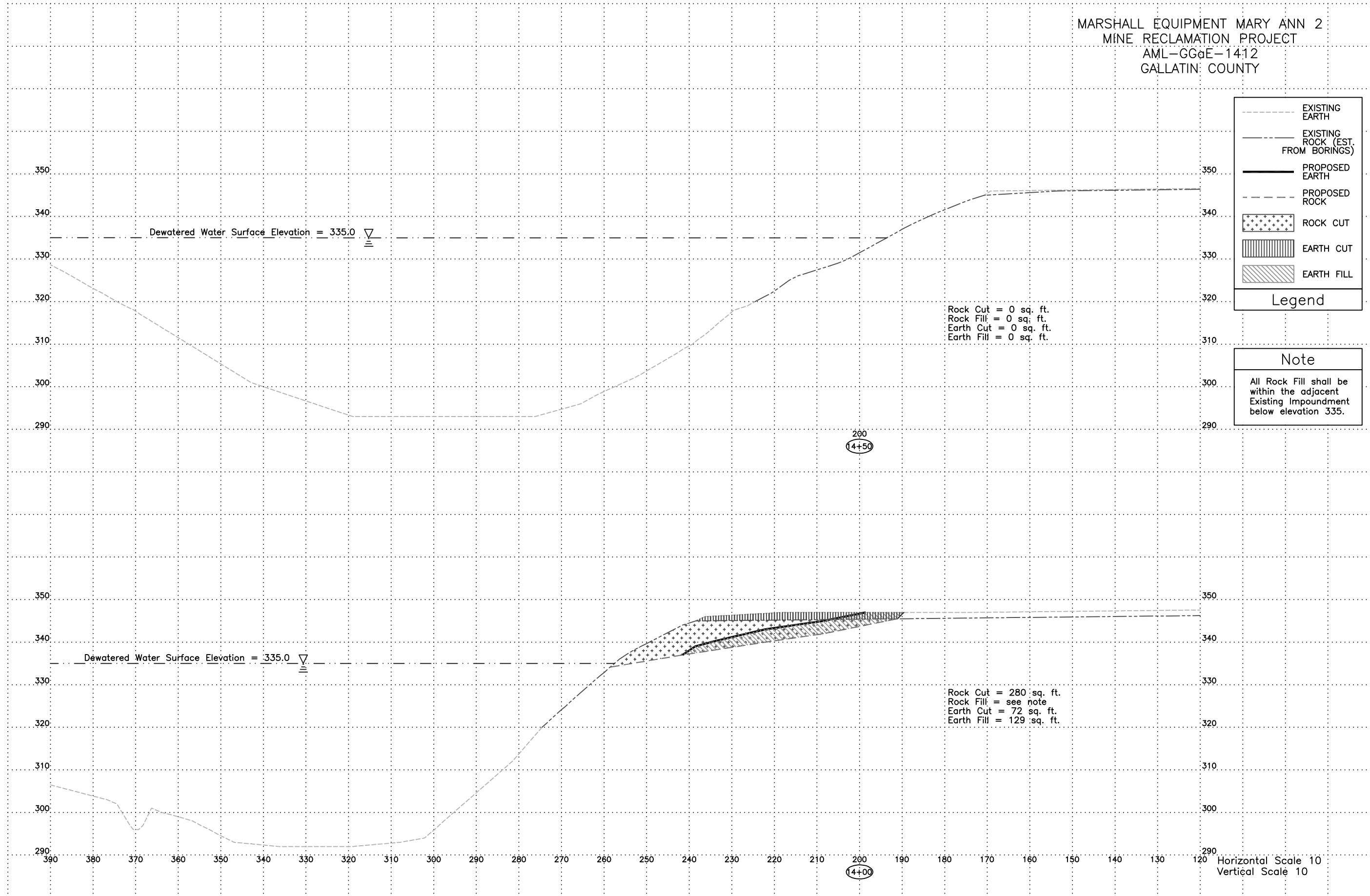
All Rock Fill shall be within the adjacent Existing Impoundment below elevation 335.

360
13+00

300
12+00

Horizontal Scale 10
Vertical Scale 10

MARSHALL EQUIPMENT MARY ANN 2
 MINE RECLAMATION PROJECT
 AML-GG&E-1412
 GALLATIN COUNTY



Rock Cut = 0 sq. ft.
 Rock Fill = 0 sq. ft.
 Earth Cut = 0 sq. ft.
 Earth Fill = 0 sq. ft.

Legend

- EXISTING EARTH
- - - EXISTING ROCK (EST. FROM BORINGS)
- PROPOSED EARTH
- - - PROPOSED ROCK
- [Stippled Box] ROCK CUT
- [Vertical Hatching Box] EARTH CUT
- [Diagonal Hatching Box] EARTH FILL

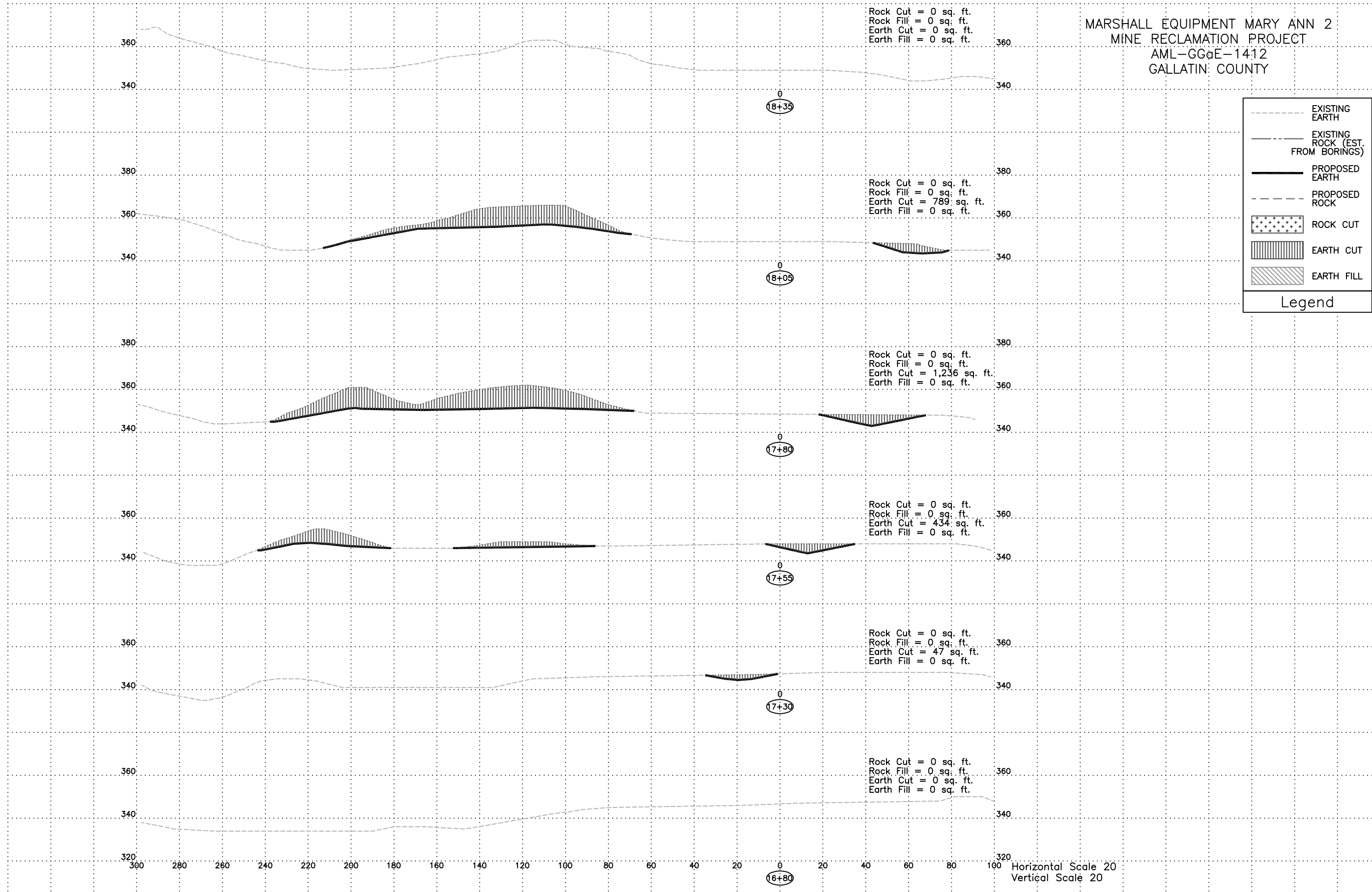
Note

All Rock Fill shall be within the adjacent Existing Impoundment below elevation 335.

Rock Cut = 280 sq. ft.
 Rock Fill = see note
 Earth Cut = 72 sq. ft.
 Earth Fill = 129 sq. ft.

Horizontal Scale 10
 Vertical Scale 10

MARSHALL EQUIPMENT MARY ANN 2
 MINE RECLAMATION PROJECT
 AML-GG&E-1412
 GALLATIN COUNTY



Legend

- EXISTING EARTH
- EXISTING ROCK (EST. FROM BORINGS)
- PROPOSED EARTH
- PROPOSED ROCK
- [Stippled Box] ROCK CUT
- [Vertical Line Box] EARTH CUT
- [Diagonal Line Box] EARTH FILL

Horizontal Scale 20
 Vertical Scale 20