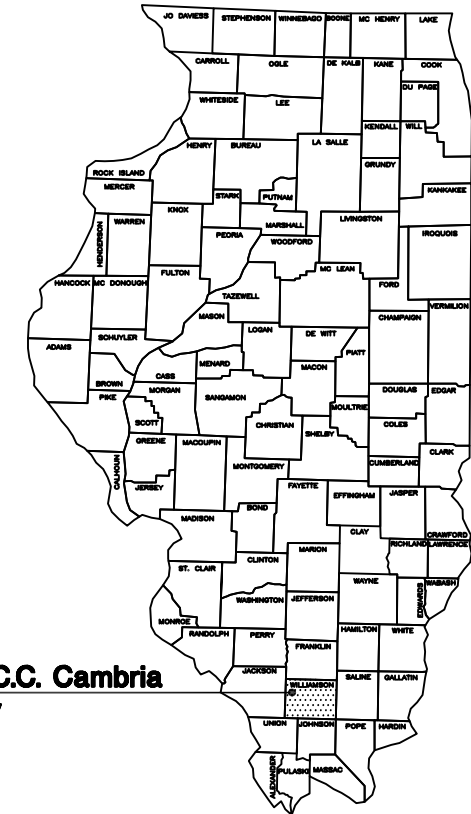


State of Illinois
Department of Natural Resources
Office of Mines and Minerals
Division of Abandoned Mined Lands Reclamation

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

**Forsythe Energy C.C. Cambria
 Reclamation Project
 AML-GWmE-1901
 Williamson County
 1LR**



**Forsythe Energy C.C. Cambria
 Williamson County**

PRE-BID MEETING

A PRE-BID MEETING IS SCHEDULED FOR THIS PROJECT AT 9:00 A.M., WEDNESDAY, JULY 24TH, 2019.
 ALL INTERESTED POTENTIAL BIDDERS ARE TO MEET ALONG TURKEY TRACK ROAD, APPROXIMATELY
 HALF OF MILE NORTHWEST OF THE INTERSECTION OF IRON HORSE DRIVE AND DOWNEY CROSSING
 ROAD, A MILE WEST OF THE TOWN OF CAMBRIA, ILLINOIS.

SCHEDULE OF DRAWINGS:

- 1. Cover Sheet
- 2. Summary of Quantities/General Notes/Location Map
- 3. Site Layout/Survey Control Point Data
- 4-12. Existing Conditions
- 13-21. Proposed Conditions
- 22-45. Cross Sections
- 46. Details
- 47. Site Layout/Seeding

I.D.O.T. Standard 280001-07
I.D.O.T. Standard 630006
I.D.O.T. Standard 630301-09
I.D.O.T. Standard 701336-07

CONTRACT NO. M1901

Prepared By IDNR Staff

Approved for Bidding:

Donald Stewart, Director
 Office of Mines and Minerals

Approved By:

Rita M. Lee, Manager
 AMLR Division

Approved By:

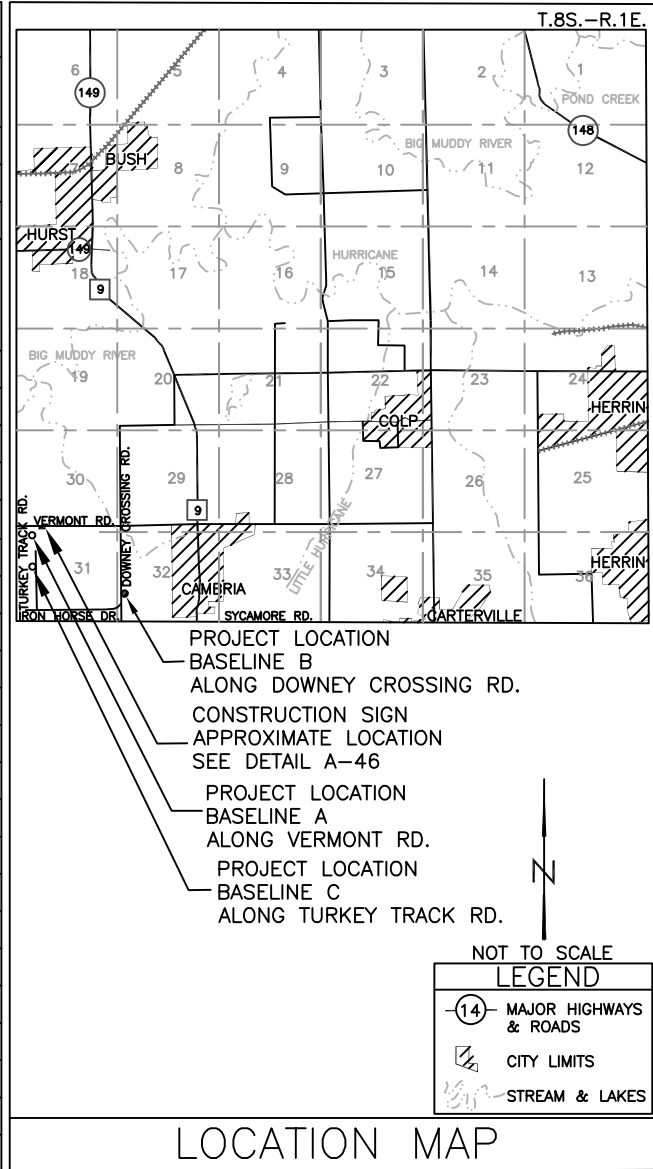
Olga Moya Aranzubia, P.E.
 IL Licensed Professional Engineer
 No. 062-062471



Certified Copy

Summary of Quantities

Item No.	#	Item	Section	Quantity				Unit	Rates/Remarks
				Baseline A	Baseline B	Baseline C	Total		
NRM20110	1	SPECIAL CLEARING	201	0.2	0.1	0.7	1	L SUM	
NRM20210	2	EARTH EXCAVATION	202	66,907	52,553	197,781	317,241	CU YD	Compaction per Section 205
NRM20230	3	MINE REFUSE EXCAVATION	202	0	0	87,376	87,376	CU YD	Compaction per Section 205
NRM25040	4	NITROGEN FERTILIZER NUTRIENT	250	2,400	1,400	11,600	15,400	POUND	See Schedule
NRM25050	5	PHOSPHORUS FERTILIZER NUTRIENT	250	1,200	700	5,800	7,700	POUND	Below
NRM25060	6	POTASSIUM FERTILIZER NUTRIENT	250	2,040	1,190	9,860	13,090	POUND	Below
NRM25070	7	AGRICULTURAL GROUND LIMESTONE	250	480.0	280.0	2,320.0	3,080.0	TON	40.0 TONS/ACRE
NRM25090	8	SEEDING	250	12.0	7.0	43.0	62.0	ACRE	Seeding Permanent
NRM25091	9	SEEDING - WETLAND	250	2.0	0.0	13.0	15.0	ACRE	
25100115	10	MULCH, METHOD 2	IDOT 251	12.0	7.0	58.0	77.0	ACRE	Procedure 1 - 2.0 TONS/ACRE
25301800	11	TREE, ACER RUBRUM (RED MAPLE), 2" CALIPER BALLED AND BURLAPPED	IDOT 253	16	8	56	80	EACH	Tree planting locations shall be determined by the Engineer at the time of planting.
NRM25510	12	MINE REFUSE TREATMENT - LIMESTONE	255	0.0	0.0	2,380.0	2,380.0	TON	70.0 TONS/ACRE
NRM25810	13	MOWING	258	11.0	7.0	51.0	69.0	ACRE	
NRM28031	14	TEMPORARY DITCH CHECKS	280	36	48	72	156	FOOT	Hay or Straw Bales - See Detail D-46, Sheet #46
NRM28040	15	PERIMETER EROSION BARRIER	280	1,805	460	165	2,430	FOOT	Silt Fence Required, IDOT Standard 280001-07
NRM28050	16	INLET AND PIPE PROTECTION	280	1	0	0	1	EACH	Silt Fence Required, IDOT Standard 280001-07
28100105	17	STONE RIPRAP, CLASS A3	IDOT 281	1,144	0	5,643	6,787	SQ YD	See Detail E-46 and Table, Sheet #46
NRM28610	18	SPECIAL EXCELSIOR BLANKET	286	5,281	5,960	13,207	24,448	SQ YD	8 Feet Wide Strips
35101400	19	AGGREGATE BASE COURSE, TYPE B	IDOT 351	0.0	0.0	1,789.0	1,789.0	TON	CA-6, 4" Lifts, 8" Total thickness, see Detail C-46, Sheet #46
542C0217	20	PIPE CULVERT CLASS C, TYPE 1, 12"	IDOT 542	0	0	46	46	FOOT	Polyethylene with Smooth Interior
NRM61310	21	CLEANING EXISTING CULVERTS	613	1	0	0	1	L SUM	
NRM61410	22	DEWATERING IMPOUNDMENTS	614	0.5	0.3	0.2	1	L SUM	
NRM63002	23	NON-BLOCKED STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	630	1,425.0	1,037.5	562.5	3,025	FOOT	Installation per Section 630 and IDOT Standard 630006 Non-Blocked Steel Plate Beam Guardrail.
63100000	24	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	IDOT 631	8	4	4	16	EACH	IDOT Standard 630301-09 Tangent Terminal. Earthwork for shoulder widening shall be incidental to the contract unit price.
NRM66510	24	BARBED WIRE FENCE	665	1,522	470	0	1,992	FOOT	See Detail B-46, Sheet #46
NRM66520	25	ENTRANCE GATE	665	1	0	0	1	L SUM	See Detail B-46, Sheet #46
NRM67110	26	MOBILIZATION (MAX. 6% OF BID)	671	0.3	0.2	0.5	1	L SUM	
70100600	27	TRAFFIC CONTROL AND PROTECTION STANDARD 701336	IDOT 701	0.5	0.5	0.0	1	L SUM	IDOT Standard 701336-07



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 damaged 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 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.

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 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 2020 AUG. 20 - SEPT. 30			WINTER 2021 JAN. 1 - MAR. 15			SPRING 2021 MAY 15 - JUN. 15			TOTAL QUANTITY
	BASILINE A	BASILINE B	BASILINE C	BASILINE A	BASILINE B	BASILINE C	SITE A	SITE A	SITE A	
SEEDING (acre)	12.0	7.0	43.0							62.0
SEEDING - WETLAND (acre)	2.0	0.0	13.0				Actual Date to be Approved by the Engineer			15.0
AGRICULTURAL GROUND LIMESTONE (tons)	480.0 40.0 T/A	280.0 40.0 T/A	2,320.0 40.0 T/A				Actual Date to be Approved by the Engineer			3,080
NITROGEN FERTILIZER NUTRIENT (pounds)	1,200 100 LB./A	700 100 LB./A	5,800 100 LB./A	1,200 100 LB./A	700 100 LB./A	5,800 100 LB./A				15,400
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	1,200 100 LB./A	700 100 LB./A	5,800 100 LB./A							7,700
POTASSIUM FERTILIZER NUTRIENT (pounds)	2,040 170 LB./A	1,190 170 LB./A	9,860 170 LB./A							13,090
MULCH, METHOD 2 PROCEDURE 1 (acre)	12.0 2.0 T/A	7.0 2.0 T/A	58.0 2.0 T/A							77.0
MOWING (acres)							11.0	7.0	51.0	69.0

State of Illinois
Department of Natural Resources

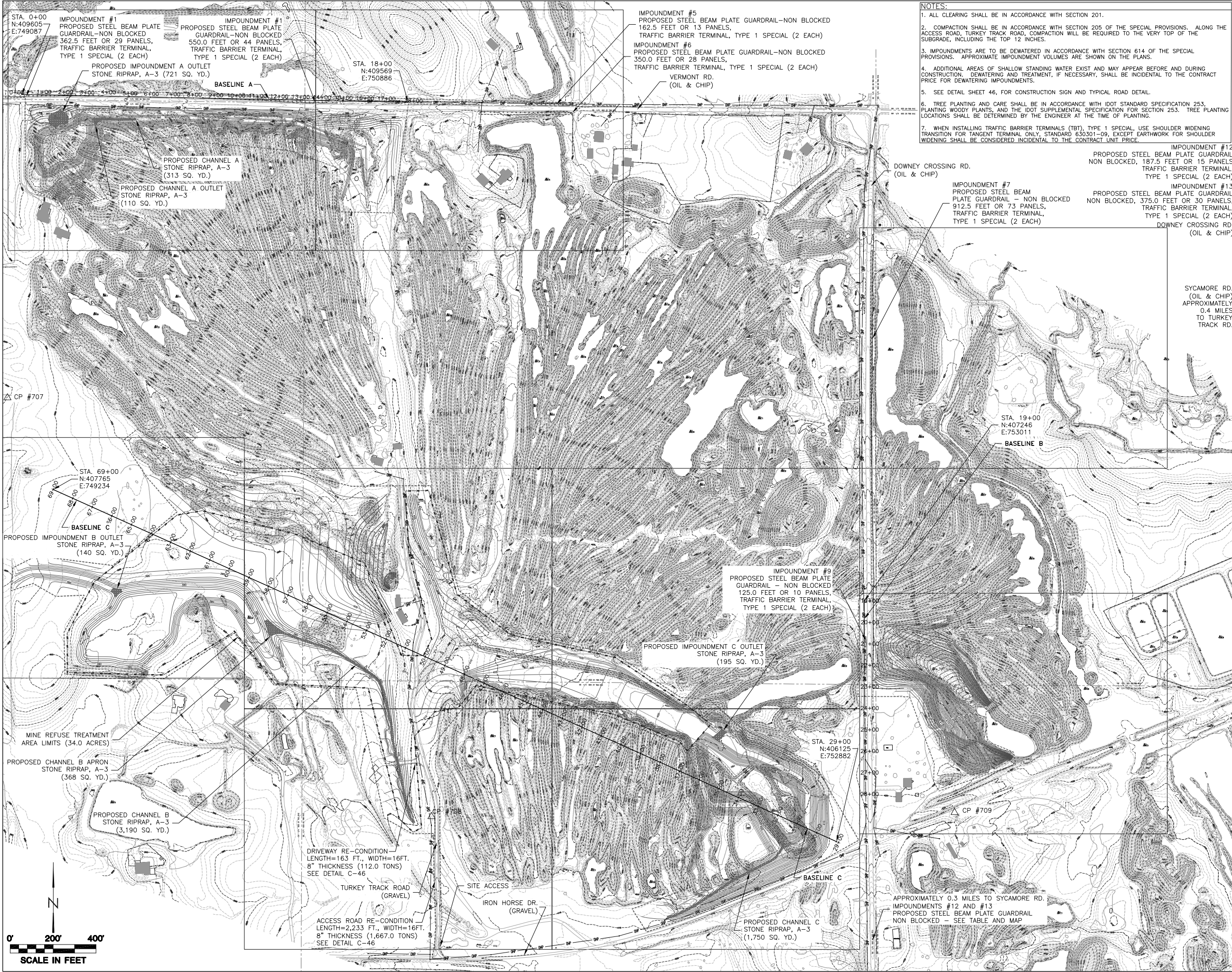
Forsythe Energy C.C. Cambria
Reclamation Project
AML-GWmE-1901
Williamson County

Date: 05-18-19

Drawn By: CMA

Checked By:

Summary of Quantities/
General Notes/Location Map
Sheet 2 of 47



- NOTES:**
1. ALL CLEARING SHALL BE IN ACCORDANCE WITH SECTION 201.
 2. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS. ALONG THE ACCESS ROAD, TURKEY TRACK ROAD, COMPACTION WILL BE REQUIRED TO THE VERY TOP OF THE SUBGRADE, INCLUDING THE TOP 12 INCHES.
 3. IMPOUNDMENTS ARE TO BE DEWATERED IN ACCORDANCE WITH SECTION 614 OF THE SPECIAL PROVISIONS. APPROXIMATE IMPOUNDMENT VOLUMES ARE SHOWN ON THE PLANS.
 4. 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 DEWATERING IMPOUNDMENTS.
 5. SEE DETAIL SHEET 46, FOR CONSTRUCTION SIGN AND TYPICAL ROAD DETAIL.
 6. TREE PLANTING AND CARE SHALL BE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION 253, PLANTING WOODY PLANTS, AND THE IDOT SUPPLEMENTAL SPECIFICATION FOR SECTION 253. TREE PLANTING LOCATIONS SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF PLANTING.
 7. WHEN INSTALLING TRAFFIC BARRIER TERMINALS (TBT), TYPE 1 SPECIAL, USE SHOULDER WIDENING TRANSITION FOR TANGENT TERMINAL ONLY, STANDARD 630301-09, EXCEPT EARTHWORK FOR SHOULDER WIDENING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE.



IMPOUNDMENT	NORTHING	EASTING	LENGTH	TBT
#1 BASELINE A	409595	749064	362.5 FEET OR 29 PANELS	2
	409598	749427		
#1 BASELINE A	409586	749968	550.0 FEET OR 44 PANELS	2
	409565	750518		
#5 BASELINE A	409556	751472	162.5 FEET OR 13 PANELS	2
	409555	751634		
#6 BASELINE A	409525	751261	350.0 FEET OR 28 PANELS	2
	409523	751610		
#7 BASELINE B	408831	753048	912.5 FEET OR 73 PANELS	2
	407919	753043		
#9 BASELINE B	407041	753043	125.0 FEET OR 10 PANELS	2
	406916	753020		
#12	405444	753068	187.5 FEET OR 15 PANELS	2
	405256	753069		
#13	404905	753027	375.0 FEET OR 30 PANELS	2
	404531	753020		

GUARDRAIL LAYOUT DATA

* GUARDRAIL INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 630 OF THE SPECIAL PROVISIONS. COORDINATES SHOWN FOR GUARDRAIL PLACEMENT ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 7 DAYS PRIOR TO THE BEGINNING OF GUARDRAIL PLACEMENT. EXACT GUARDRAIL PLACEMENT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER, WITHIN THOSE 7 DAYS, AND PRIOR TO ANY GUARDRAIL PLACEMENT. NO GUARDRAIL INSTALLATION SHALL BE COMPLETED PRIOR TO ENGINEER APPROVAL OF EXACT LOCATIONS.

4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

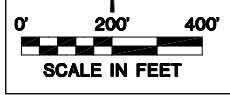
SHEET LAYOUT

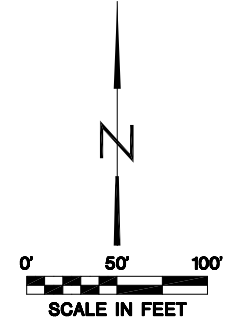
- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONSTRUCTION LIMITS
- TREELINE
- WATER WAY
- SECTION LINE
- OVERHEAD POWER LINE
- FENCE LINE
- CONTROL POINT

LEGEND

TRAVERSE LAYOUT DATA

CP	ELEV.	NORTHING	EASTING
#707	390.05	408192.56	749021.24
#708	413.97	406241.50	750995.89
#709	413.47	406260.64	753431.77



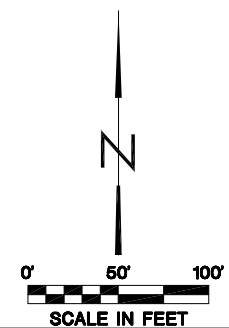


4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

---	EXISTING CONTOUR
~~~~~	TREELINE
—	WATER WAY
---	SECTION LINE
—OHP—	OVERHEAD POWER LINE
△	CONTROL POINT

LEGEND

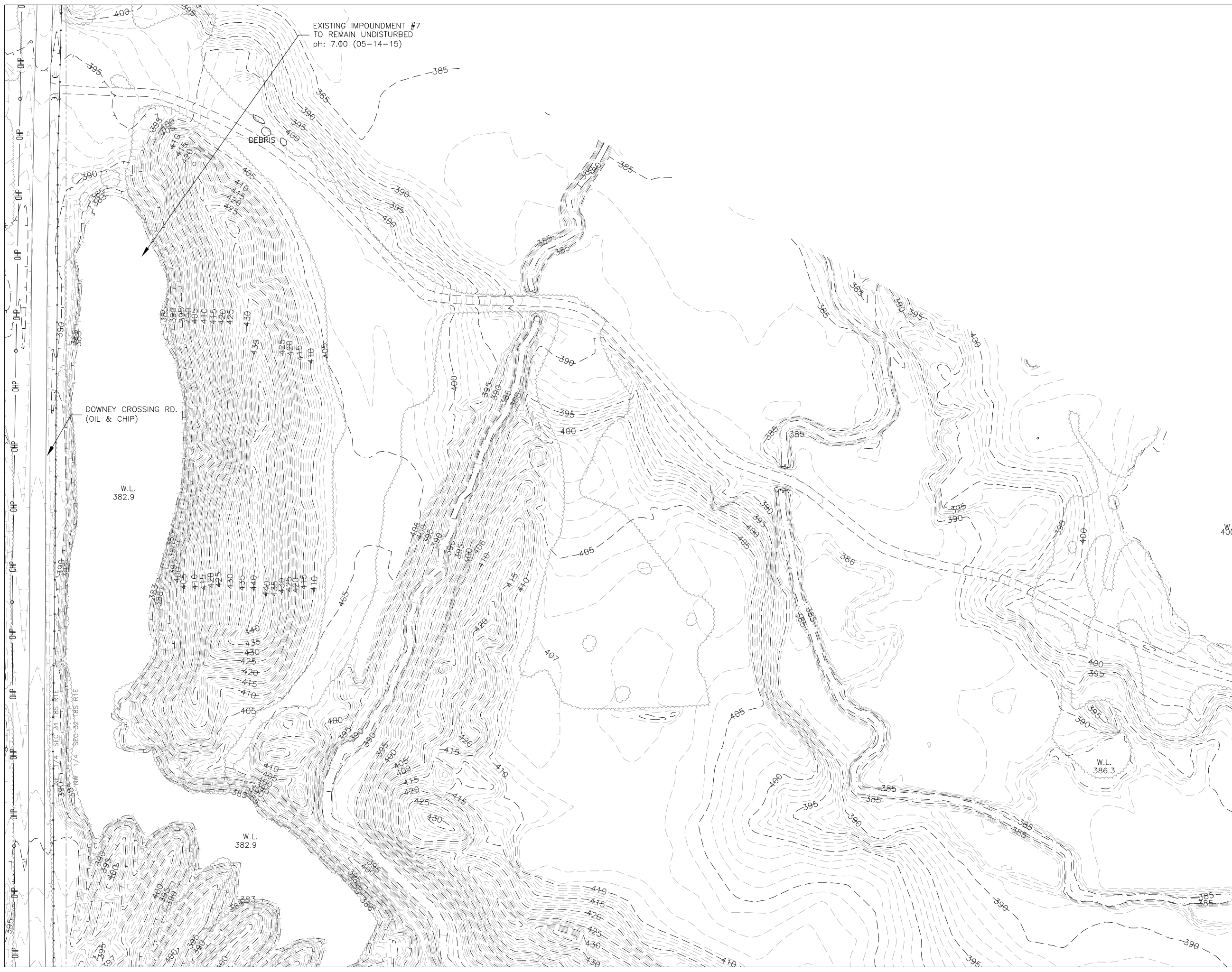


4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

---	EXISTING CONTOUR
~~~~~	TREELINE
---	WATER WAY
---	SECTION LINE
—OHP—	OVERHEAD POWER LINE
△	CONTROL POINT

LEGEND

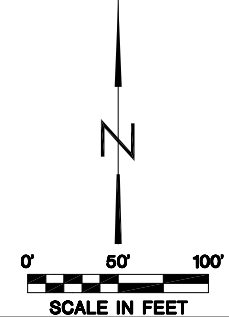


EXISTING IMPONDMENT #7
TO REMAIN UNDISTURBED
pH: 7.00 (05-14-15)

DOWNEY CROSSING RD.
(OIL & CHIP)

W.L.
382.9

W.L.
386.3



4/13		5/14			
				6/15	
11/20	10/19	9/18			
				7/16	
		12/21		8/17	

SHEET LAYOUT

---	EXISTING CONTOUR
~~~~~	TREELINE
—	WATER WAY
---	SECTION LINE
—OHP—	OVERHEAD POWER LINE
△	CONTROL POINT

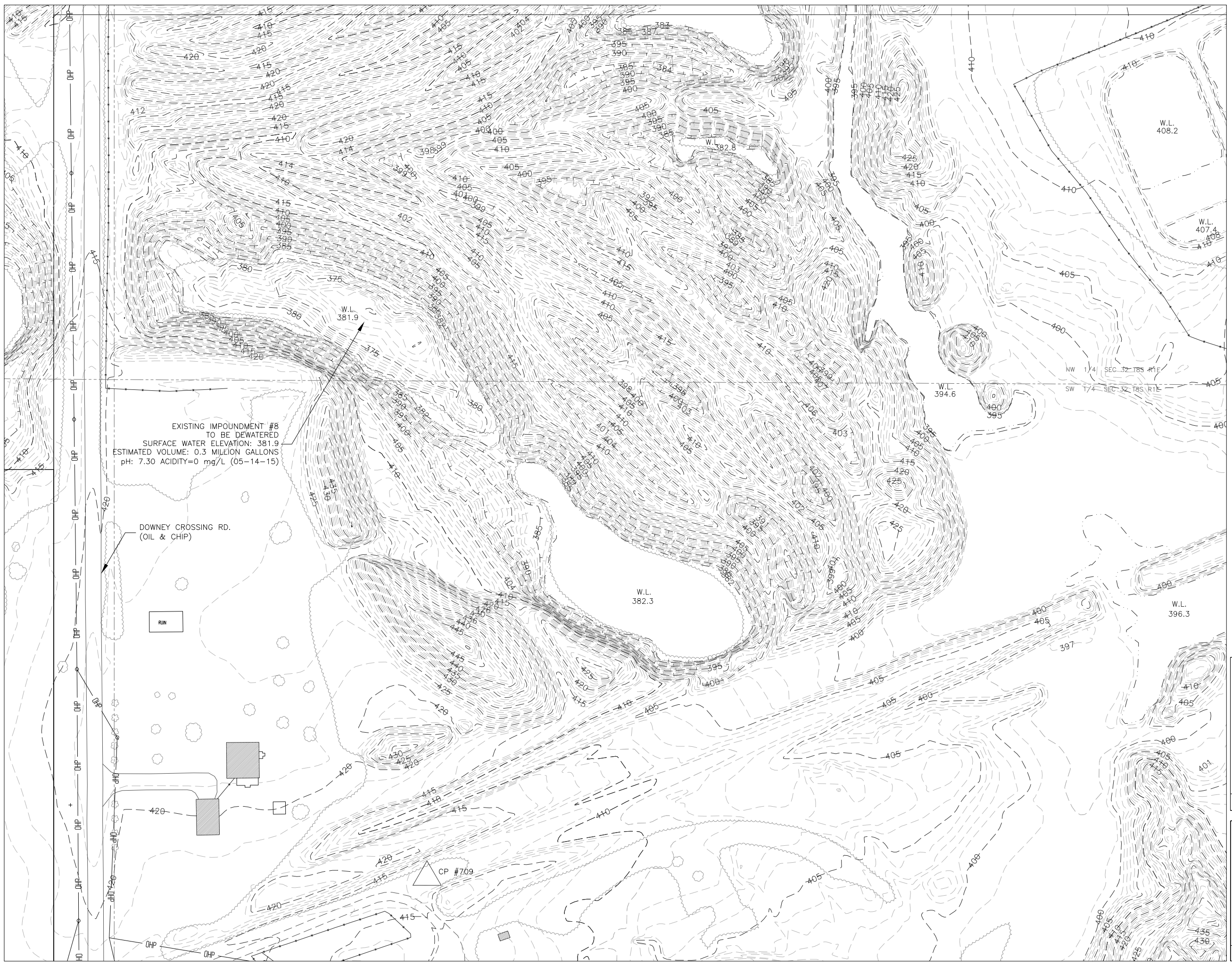
LEGEND

State of Illinois  
Department of Natural Resources

Forsythe Energy C.C. Cambria  
Reclamation Project  
AML-GWmE-1901  
Williamson County

Drawn By: OMA Date: 05-13-19  
Checked By: _____

Existing Conditions  
Sheet 6 of 47



EXISTING IMPOUNDMENT #8  
TO BE DEWATERED  
SURFACE WATER ELEVATION: 381.9  
ESTIMATED VOLUME: 0.3 MILLION GALLONS  
pH: 7.30 ACIDITY=0 mg/L (05-14-15)

DOWNEY CROSSING RD.  
(OIL & CHIP)

RUN

W.L.  
382.3

W.L.  
382.8

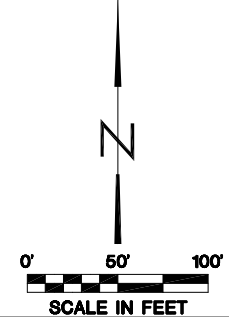
W.L.  
394.6

W.L.  
396.3

W.L.  
408.2

W.L.  
407.4

CP #709



4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

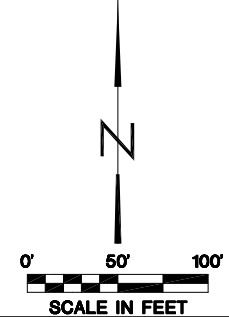
---	EXISTING CONTOUR
~~~~~	TREELINE
---	WATER WAY
---	SECTION LINE
—OHP—	OVERHEAD POWER LINE
△	CONTROL POINT

LEGEND



EXISTING IMPOUNDMENT #10
 TO BE DEWATERED.
 SURFACE WATER ELEVATION: 383.5
 ESTIMATED VOLUME: 0.2 MILLION GALLONS
 pH: 7.19 ACIDITY=0 mg/L (05-14-15)

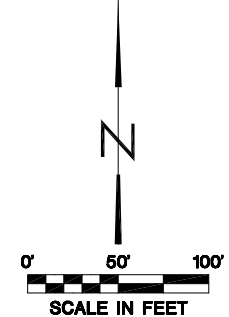
IRON HORSE DR.
 (GRAVEL)



4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

	EXISTING CONTOUR
	TREELINE
	WATER WAY
	SECTION LINE
	OHP OVERHEAD POWER LINE
	CONTROL POINT

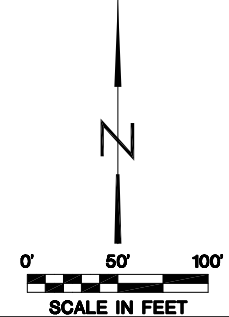
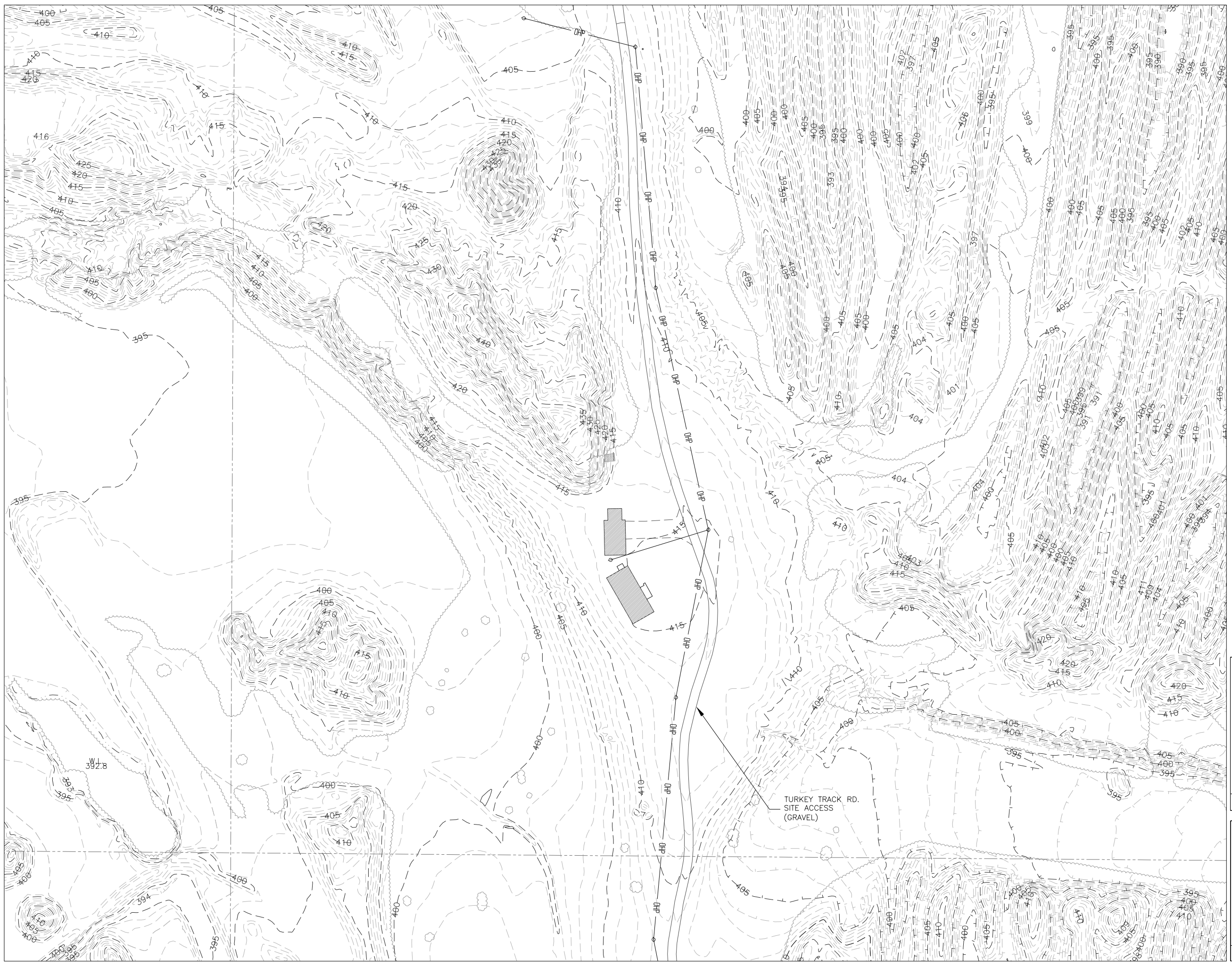


4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

---	EXISTING CONTOUR
~~~~~	TREELINE
—	WATER WAY
- - - - -	SECTION LINE
— OHP —	OVERHEAD POWER LINE
△	CONTROL POINT

LEGEND



4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

---	EXISTING CONTOUR
~~~~~	TREELINE
---	WATER WAY
---	SECTION LINE
—OP—	OVERHEAD POWER LINE
△	CONTROL POINT

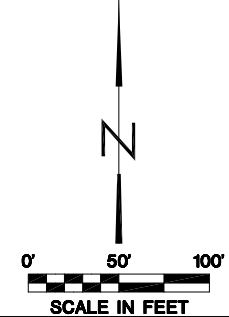
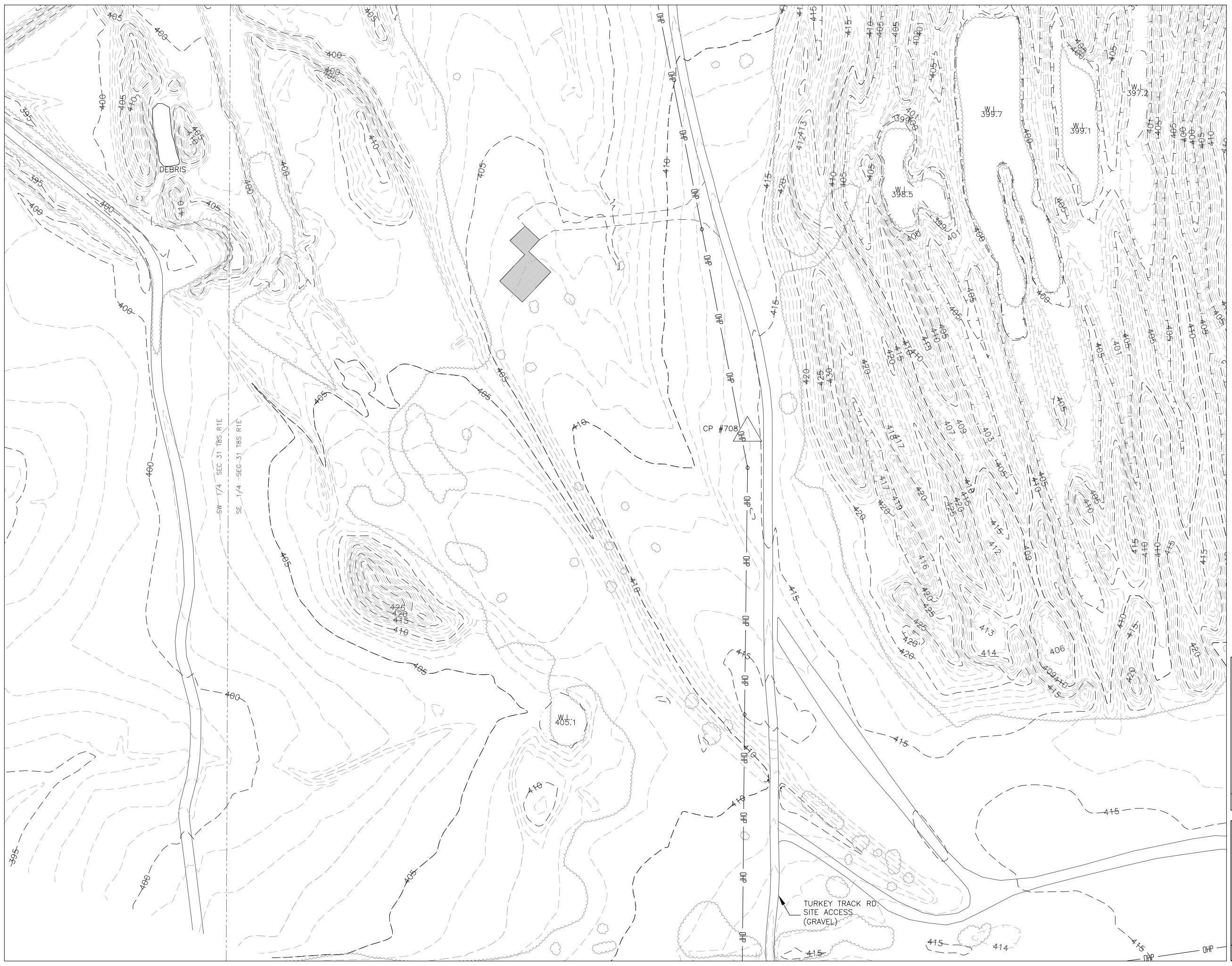
LEGEND

State of Illinois
Department of Natural Resources

Forsythe Energy C.C. Cambria
Reclamation Project
AML-GWmE-1901
Williamson County

Drawn By: OMA Date: 05-13-19
 Checked By:

Existing Conditions
Sheet 10 of 47

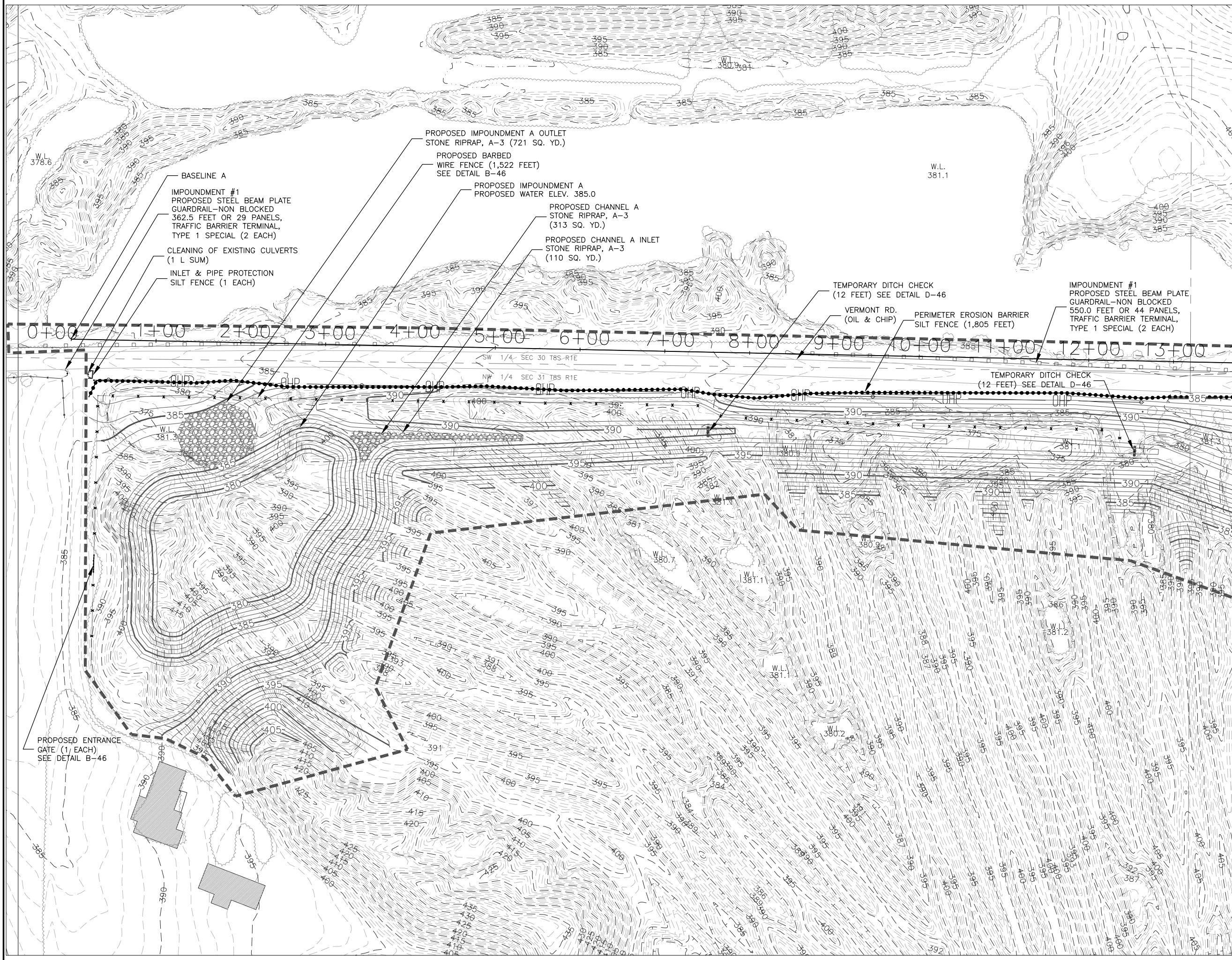


4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

---	EXISTING CONTOUR
~~~~~	TREELINE
---	WATER WAY
---	SECTION LINE
—OHP—	OVERHEAD POWER LINE
△	CONTROL POINT

LEGEND



**NOTES:**  
 1. ALL CLEARING SHALL BE IN ACCORDANCE WITH SECTION 201. BRUSH PILES GENERATED FROM CLEARING COMPLETED AROUND PROPOSED IMPOUNDMENT A, SHALL BE PLACED EAST OF THE PROPOSED IMPOUNDMENT A, NEAREST THE CONSTRUCTION LIMITS.

W.L. 378.6

BASELINE A

IMPOUNDMENT #1  
 PROPOSED STEEL BEAM PLATE GUARDRAIL-NON BLOCKED  
 362.5 FEET OR 29 PANELS,  
 TRAFFIC BARRIER TERMINAL,  
 TYPE 1 SPECIAL (2 EACH)

CLEANING OF EXISTING CULVERTS  
 (1 L SUM)

INLET & PIPE PROTECTION  
 SILT FENCE (1 EACH)

PROPOSED IMPOUNDMENT A OUTLET  
 STONE RIPRAP, A-3 (721 SQ. YD.)

PROPOSED BARBED  
 WIRE FENCE (1,522 FEET)  
 SEE DETAIL B-46

PROPOSED IMPOUNDMENT A  
 PROPOSED WATER ELEV. 385.0

PROPOSED CHANNEL A  
 STONE RIPRAP, A-3  
 (313 SQ. YD.)

PROPOSED CHANNEL A INLET  
 STONE RIPRAP, A-3  
 (110 SQ. YD.)

W.L. 381.1

TEMPORARY DITCH CHECK  
 (12 FEET) SEE DETAIL D-46

VERMONT RD.  
 (OIL & CHIP)

PERIMETER EROSION BARRIER  
 SILT FENCE (1,805 FEET)

IMPOUNDMENT #1  
 PROPOSED STEEL BEAM PLATE  
 GUARDRAIL-NON BLOCKED  
 550.0 FEET OR 44 PANELS,  
 TRAFFIC BARRIER TERMINAL,  
 TYPE 1 SPECIAL (2 EACH)

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00

SW 1/4 SEC 30 T8S R1E  
 NW 1/4 SEC 31 T8S R1E

TEMPORARY DITCH CHECK  
 (12 FEET) SEE DETAIL D-46

W.L. 381.3

W.L. 380.7

W.L. 381.1

W.L. 381.2

W.L. 381.3

W.L. 381.4

W.L. 381.5

W.L. 381.6

W.L. 381.7

W.L. 381.8

W.L. 381.9

W.L. 382.0

W.L. 382.1

W.L. 382.2

W.L. 382.3

W.L. 382.4

W.L. 382.5

W.L. 382.6

W.L. 382.7

W.L. 382.8

W.L. 382.9

W.L. 383.0

W.L. 383.1

W.L. 383.2

W.L. 383.3

W.L. 383.4

W.L. 383.5

W.L. 383.6

W.L. 383.7

W.L. 383.8

W.L. 383.9

W.L. 384.0

W.L. 384.1

W.L. 384.2

W.L. 384.3

W.L. 384.4

W.L. 384.5

W.L. 384.6

W.L. 384.7

W.L. 384.8

W.L. 384.9

W.L. 385.0

W.L. 385.1

W.L. 385.2

W.L. 385.3

W.L. 385.4

W.L. 385.5

W.L. 385.6

W.L. 385.7

W.L. 385.8

W.L. 385.9

W.L. 386.0

W.L. 386.1

W.L. 386.2

W.L. 386.3

W.L. 386.4

W.L. 386.5

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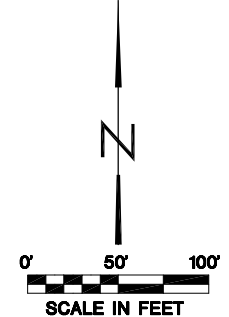
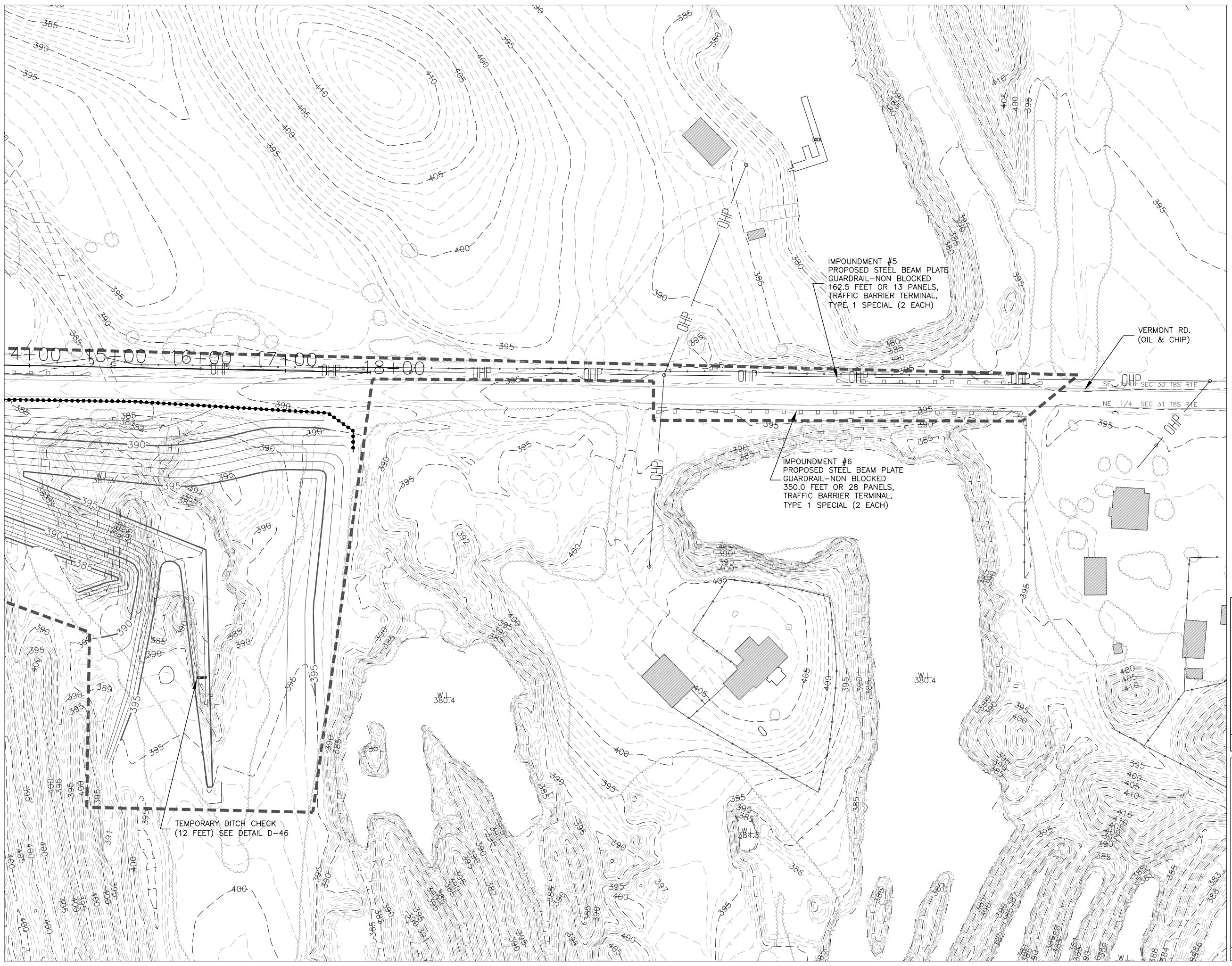
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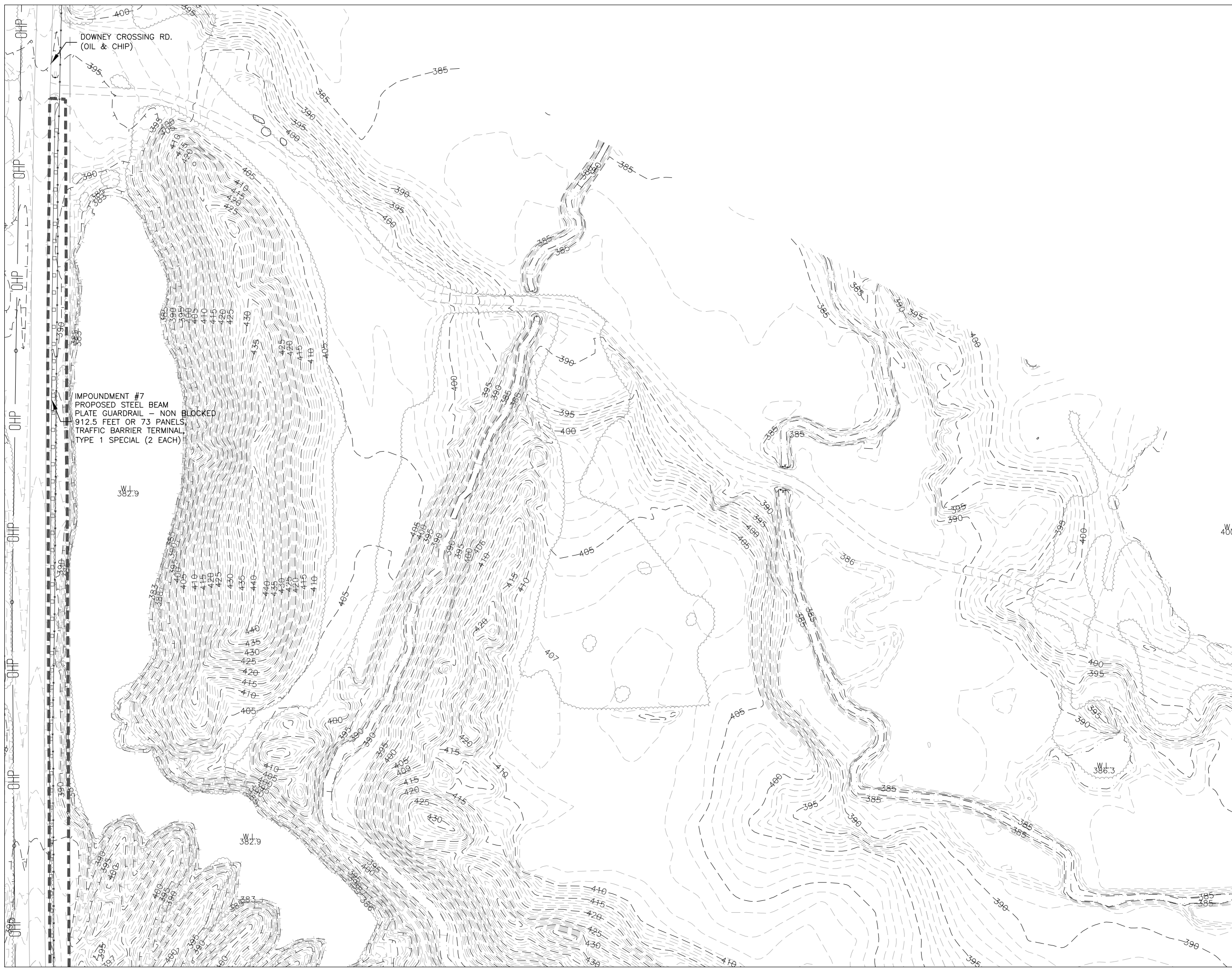


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			6/15
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	12/21	8/17	7/16

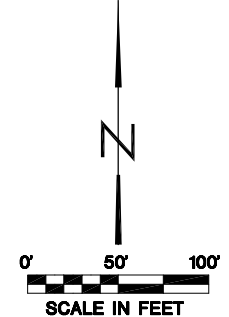
SHEET LAYOUT

---	EXISTING CONTOUR
—	PROPOSED CONTOUR
- - - -	CONSTRUCTION LIMITS
~~~~~	EXISTING TREELINE
-----	EDGE OF WATER
---	SECTION LINE
- - - - -	OVERHEAD POWER LINE
—+—	FENCE LINE
△	CONTROL POINT

LEGEND



IMPOUNDMENT #7
 PROPOSED STEEL BEAM
 PLATE GUARDRAIL - NON BLOCKED
 912.5 FEET OR 73 PANELS
 TRAFFIC BARRIER TERMINAL
 TYPE 1 SPECIAL (2 EACH)



4/13	5/14		
			6/15
11/20	10/19	9/18	
	12/21	8/17	7/16

SHEET LAYOUT

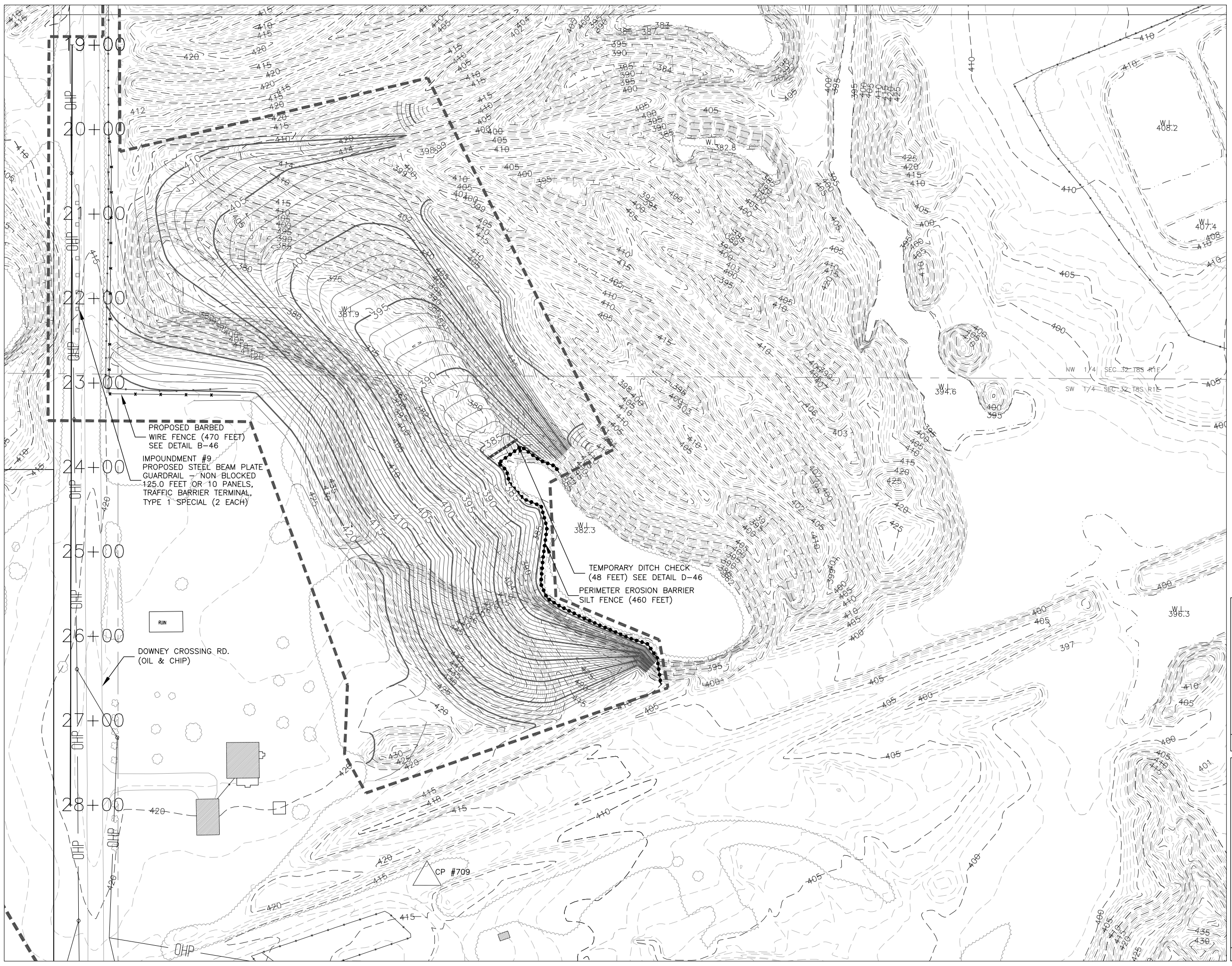
	EXISTING CONTOUR
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	CONSTRUCTION LIMITS
	EXISTING TREELINE
	EDGE OF WATER
	SECTION LINE
	OVERHEAD POWER LINE
	FENCE LINE
	CONTROL POINT
LEGEND	

State of Illinois
 Department of Natural Resources

Forsythe Energy C.C. Cambria
 Reclamation Project
 AML-GWmE-1901
 Williamson County

Drawn By: OMA Date: 05-13-19
 Checked By: _____

Proposed Conditions
 Sheet 15 of 47



PROPOSED BARBED WIRE FENCE (470 FEET) SEE DETAIL B-46

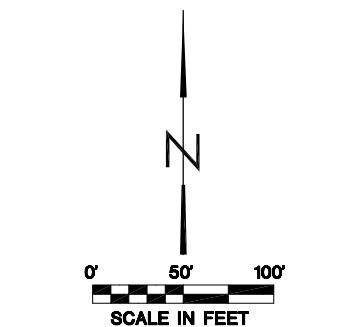
IMPOUNDMENT #9 PROPOSED STEEL BEAM PLATE GUARDRAIL - NON BLOCKED 125.0 FEET OR 10 PANELS, TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (2 EACH)

TEMPORARY DITCH CHECK (48 FEET) SEE DETAIL D-46

PERIMETER EROSION BARRIER SILT FENCE (460 FEET)

RUN

DOWNEY CROSSING RD. (OIL & CHIP)



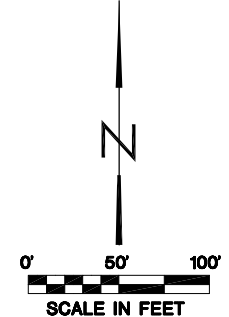
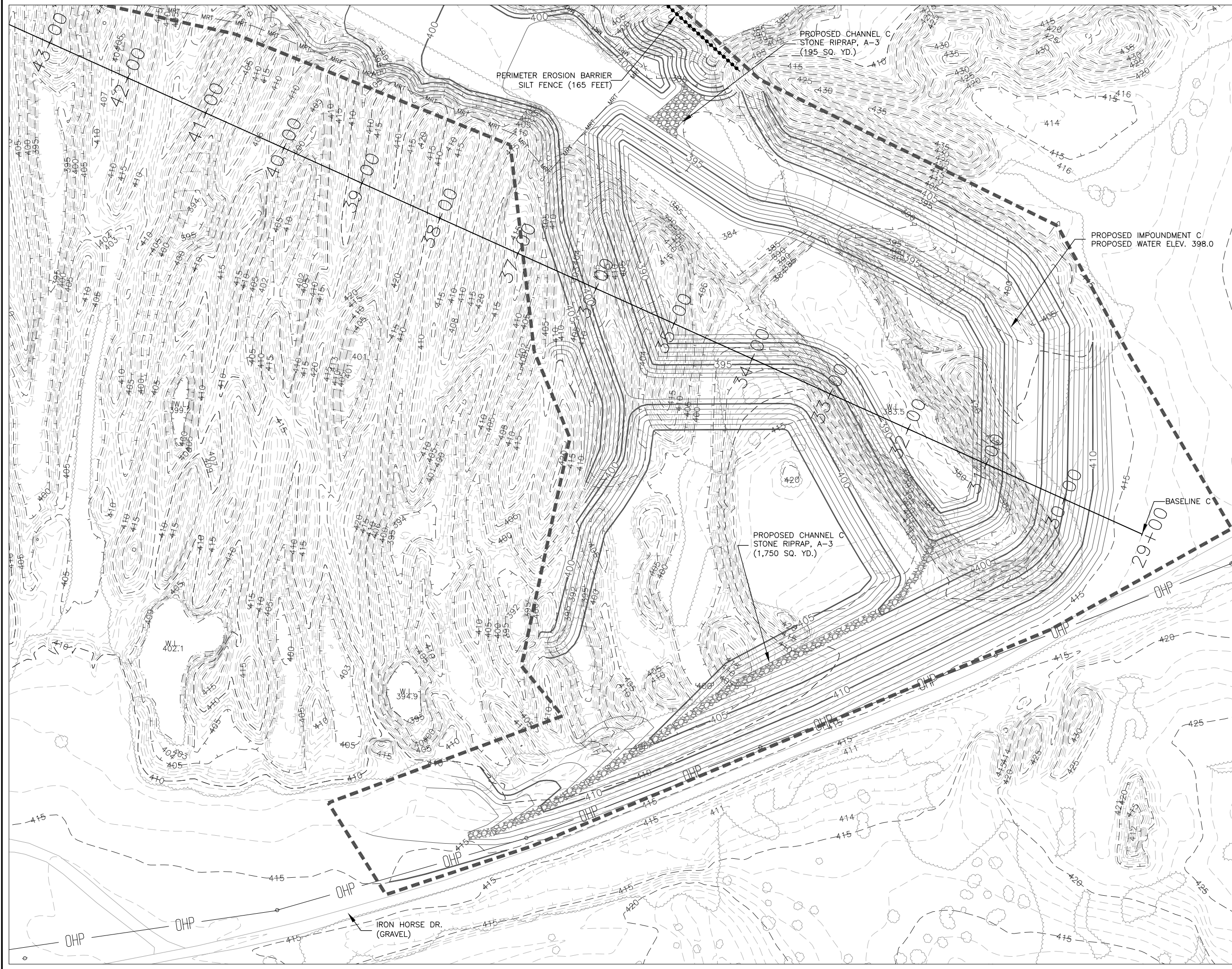
4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

---	EXISTING CONTOUR
—	PROPOSED CONTOUR
- - - -	CONSTRUCTION LIMITS
~~~~~	EXISTING TREELINE
— · — · —	EDGE OF WATER
---	SECTION LINE
- - - - -	OVERHEAD POWER LINE
— x —	FENCE LINE
△	CONTROL POINT

LEGEND





4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

---	EXISTING CONTOUR
—	PROPOSED CONTOUR
---	CONSTRUCTION LIMITS
~~~~~	EXISTING TREELINE
---	EDGE OF WATER
---	SECTION LINE
---o---	OVERHEAD POWER LINE
---	FENCE LINE
△	CONTROL POINT

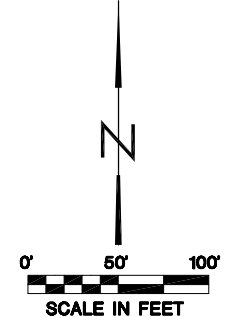
LEGEND

State of Illinois
Department of Natural Resources

Forsythe Energy C.C. Cambria
Reclamation Project
AML-GWmE-1901
Williamson County

Drawn By: OMA Date: 05-13-19
Checked By:

Proposed Conditions
Sheet 17 of 47



4/13	5/14		
			6/15
11/20	10/19	9/18	
	12/21	8/17	7/16

SHEET LAYOUT

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EXISTING TREELINE
	EDGE OF WATER
	SECTION LINE
	OVERHEAD POWER LINE
	FENCE LINE
	CONTROL POINT

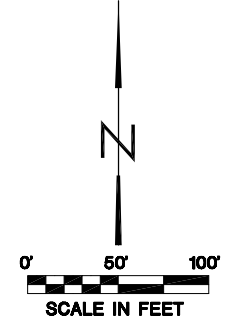
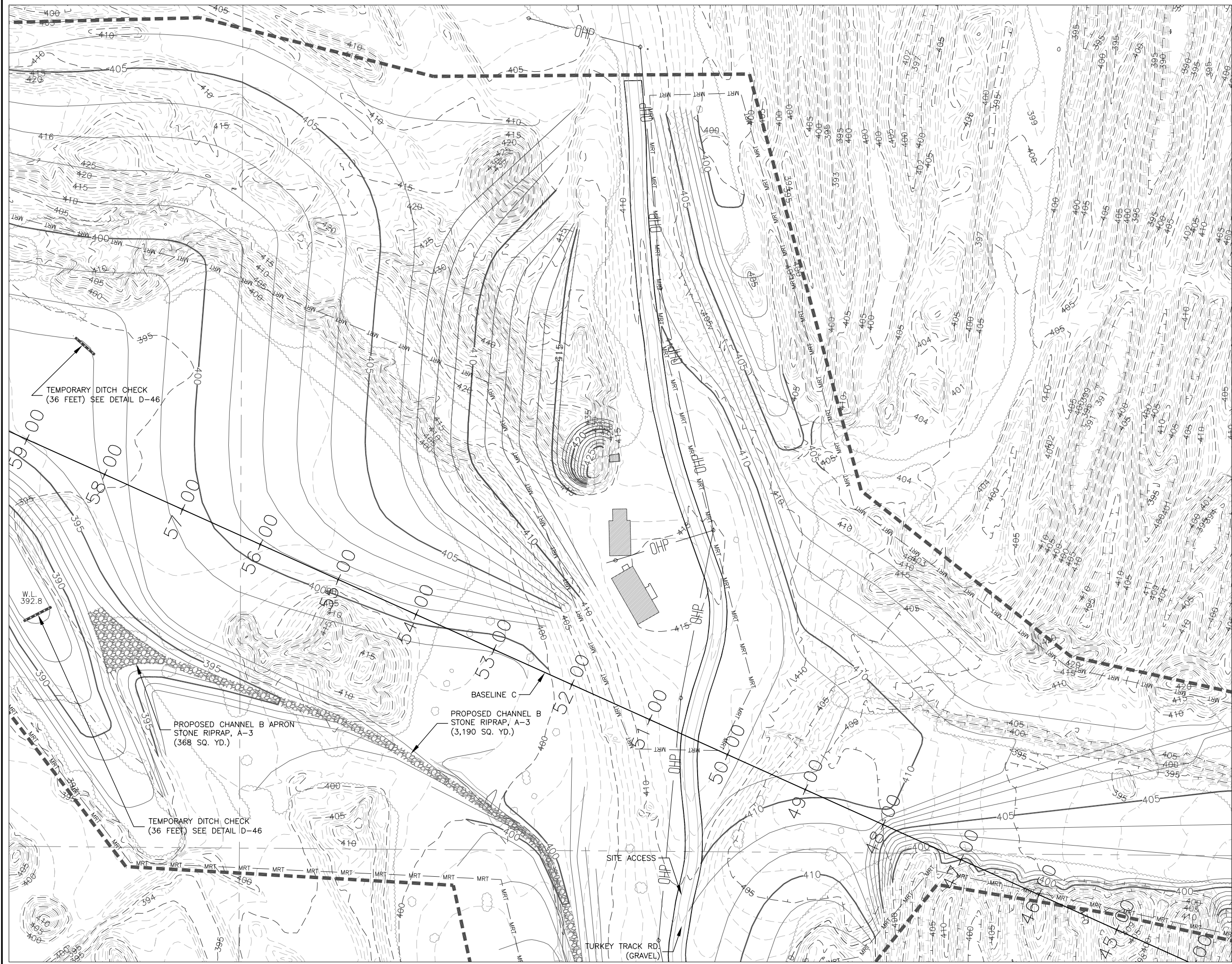
LEGEND

State of Illinois
Department of Natural Resources

Forsythe Energy C.C. Cambria
Reclamation Project
AML-GWmE-1901
Williamson County

Drawn By: OMA Date: 05-13-19
Checked By:

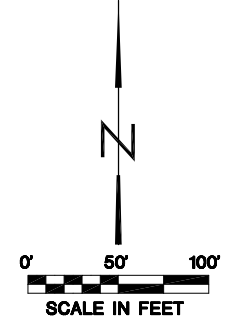
Proposed Conditions
Sheet 18 of 47



4/13	5/14		
			6/15
11/20	10/19	9/18	
	12/21	8/17	7/16

SHEET LAYOUT

- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - - - CONSTRUCTION LIMITS
 - ~ ~ ~ EXISTING TREELINE
 - - - - - EDGE OF WATER
 - - - - - SECTION LINE
 - - - - - OVERHEAD POWER LINE
 - - - - - FENCE LINE
 - △ CONTROL POINT
- LEGEND



4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

---	EXISTING CONTOUR
—	PROPOSED CONTOUR
---	CONSTRUCTION LIMITS
~~~~~	EXISTING TREELINE
---	EDGE OF WATER
---	SECTION LINE
--- ---	OVERHEAD POWER LINE
—x—	FENCE LINE
△	CONTROL POINT

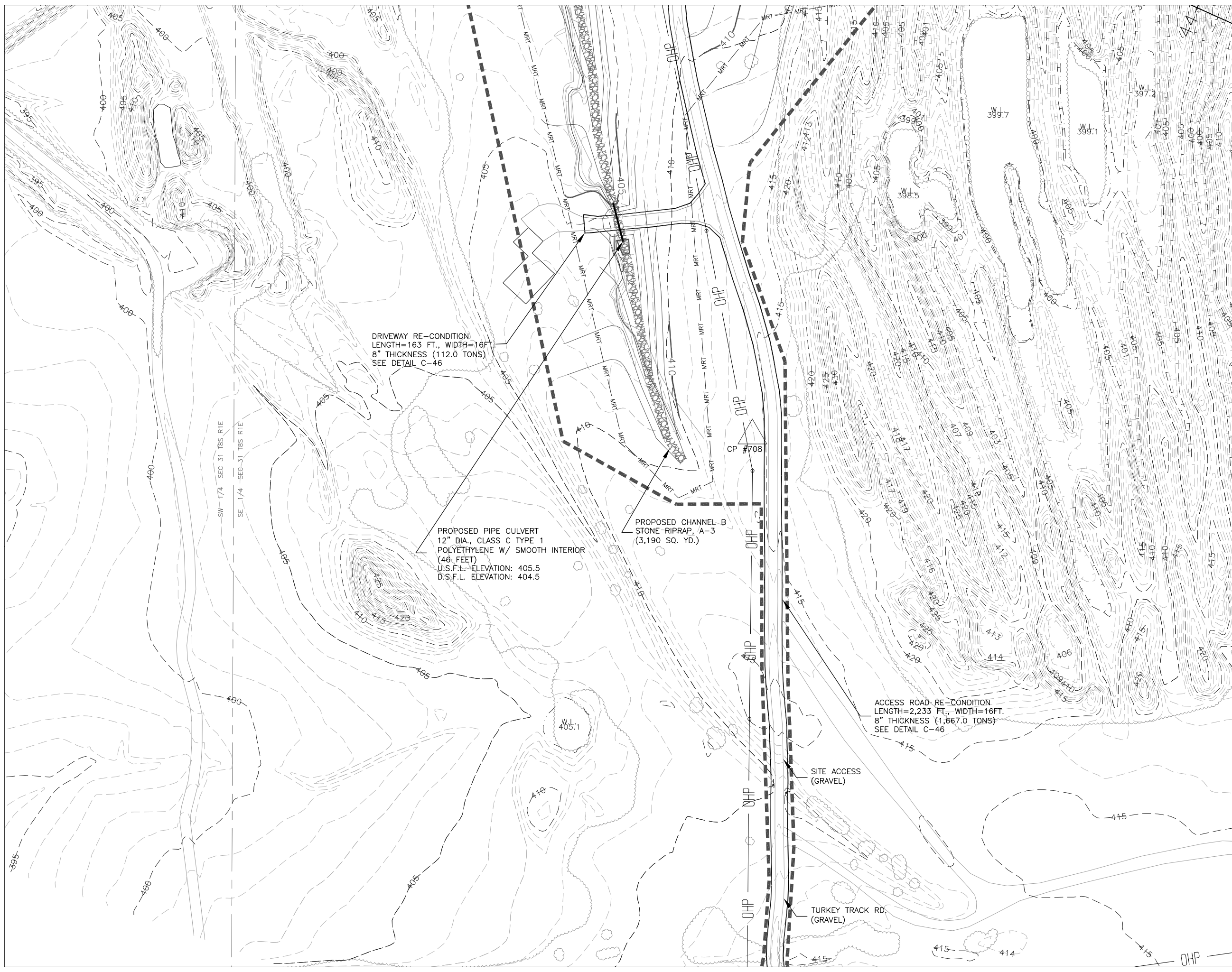
LEGEND

State of Illinois  
Department of Natural Resources

Forsythe Energy C.C. Cambria  
Reclamation Project  
AML-GWmE-1901  
Williamson County

Drawn By: OMA Date: 05-13-19  
Checked By: _____

Proposed Conditions  
Sheet 20 of 47



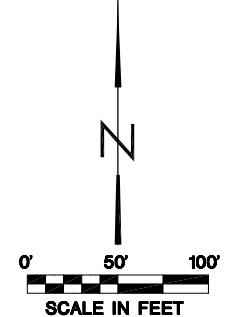
DRIVEWAY RE-CONDITION  
 LENGTH=163 FT., WIDTH=16FT.  
 8" THICKNESS (112.0 TONS)  
 SEE DETAIL C-46

PROPOSED PIPE CULVERT  
 12" DIA., CLASS C TYPE 1  
 POLYETHYLENE W/ SMOOTH INTERIOR  
 (46 FEET)  
 U.S.F.L. ELEVATION: 405.5  
 D.S.F.L. ELEVATION: 404.5

PROPOSED CHANNEL B  
 STONE RIPRAP, A-3  
 (3,190 SQ. YD.)

ACCESS ROAD RE-CONDITION  
 LENGTH=2,233 FT., WIDTH=16FT.  
 8" THICKNESS (1,667.0 TONS)  
 SEE DETAIL C-46

NOTES:  
 1. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR THE PROPERTY OWNERS AT ALL TIMES, FOR THE DURATION OF THE PROJECT.



4/13	5/14	
		6/15
11/20	10/19	9/18
	12/21	8/17
		7/16

SHEET LAYOUT

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EXISTING TREELINE
	EDGE OF WATER
	SECTION LINE
	OVERHEAD POWER LINE
	FENCE LINE
	CONTROL POINT
LEGEND	

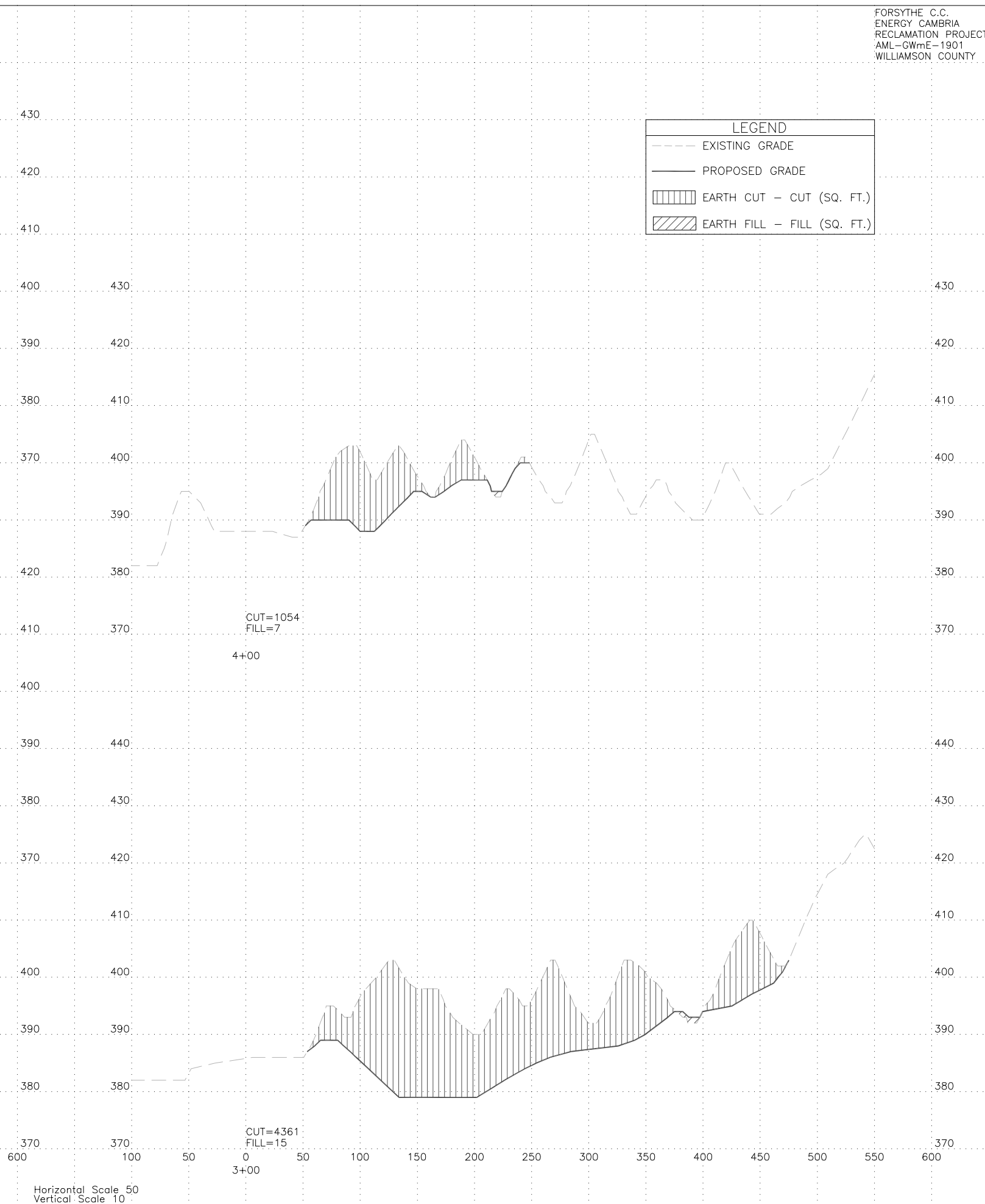
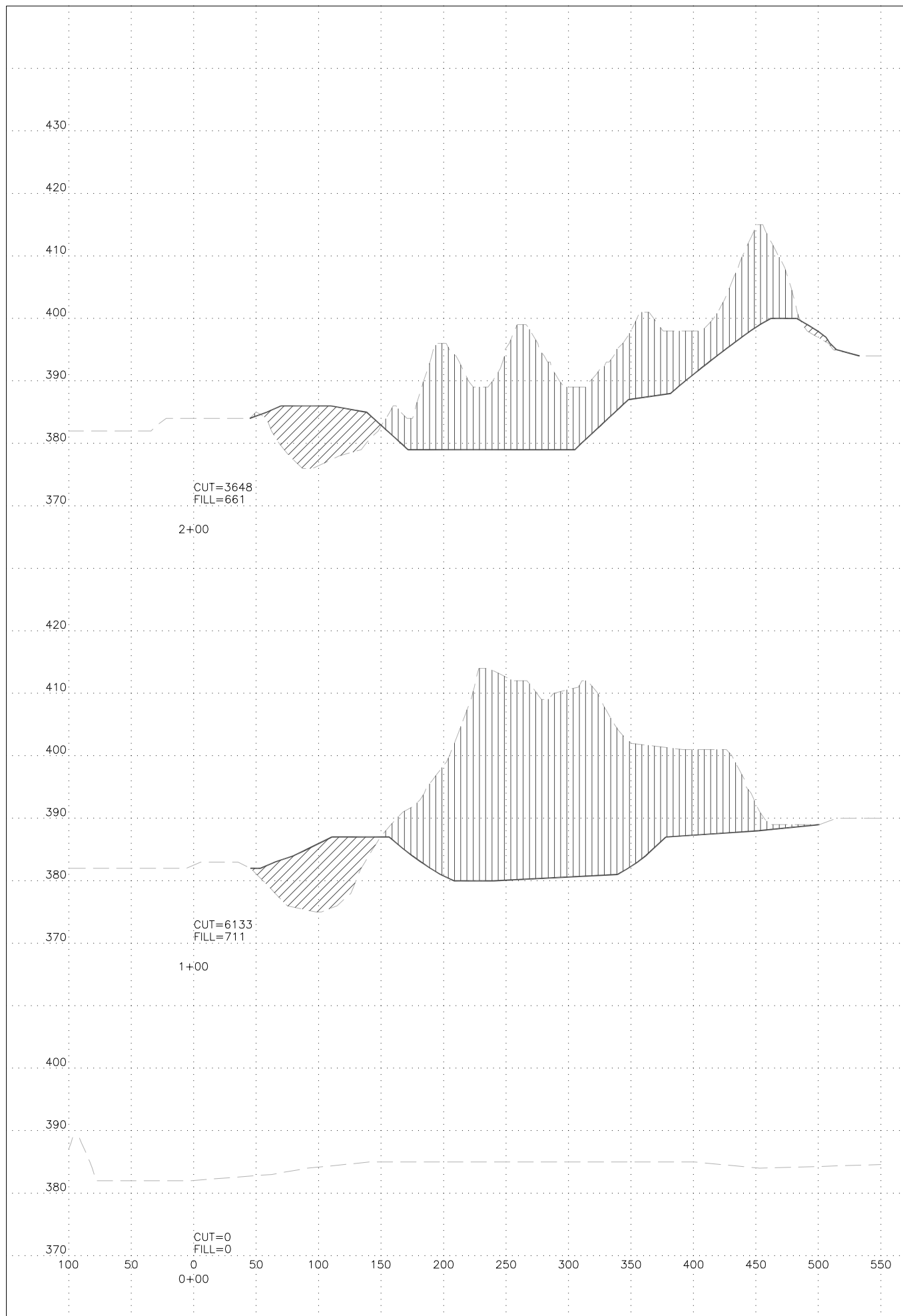
**State of Illinois**  
**Department of Natural Resources**

**Forsythe Energy C.C. Cambria**  
**Reclamation Project**  
**AML-GWmE-1901**  
**Williamson County**

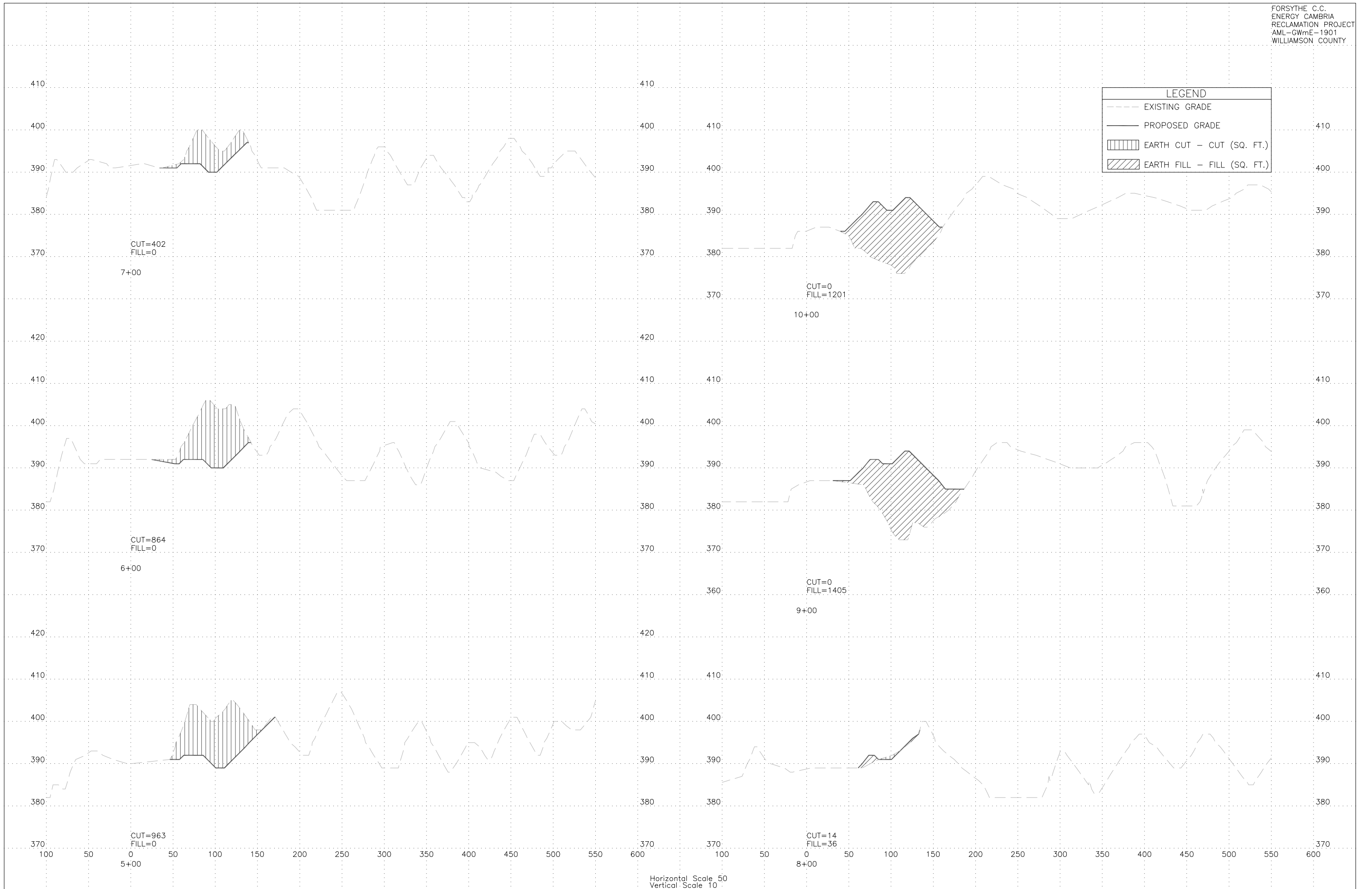
Drawn By: OMA Date: 05-13-19  
 Checked By: _____

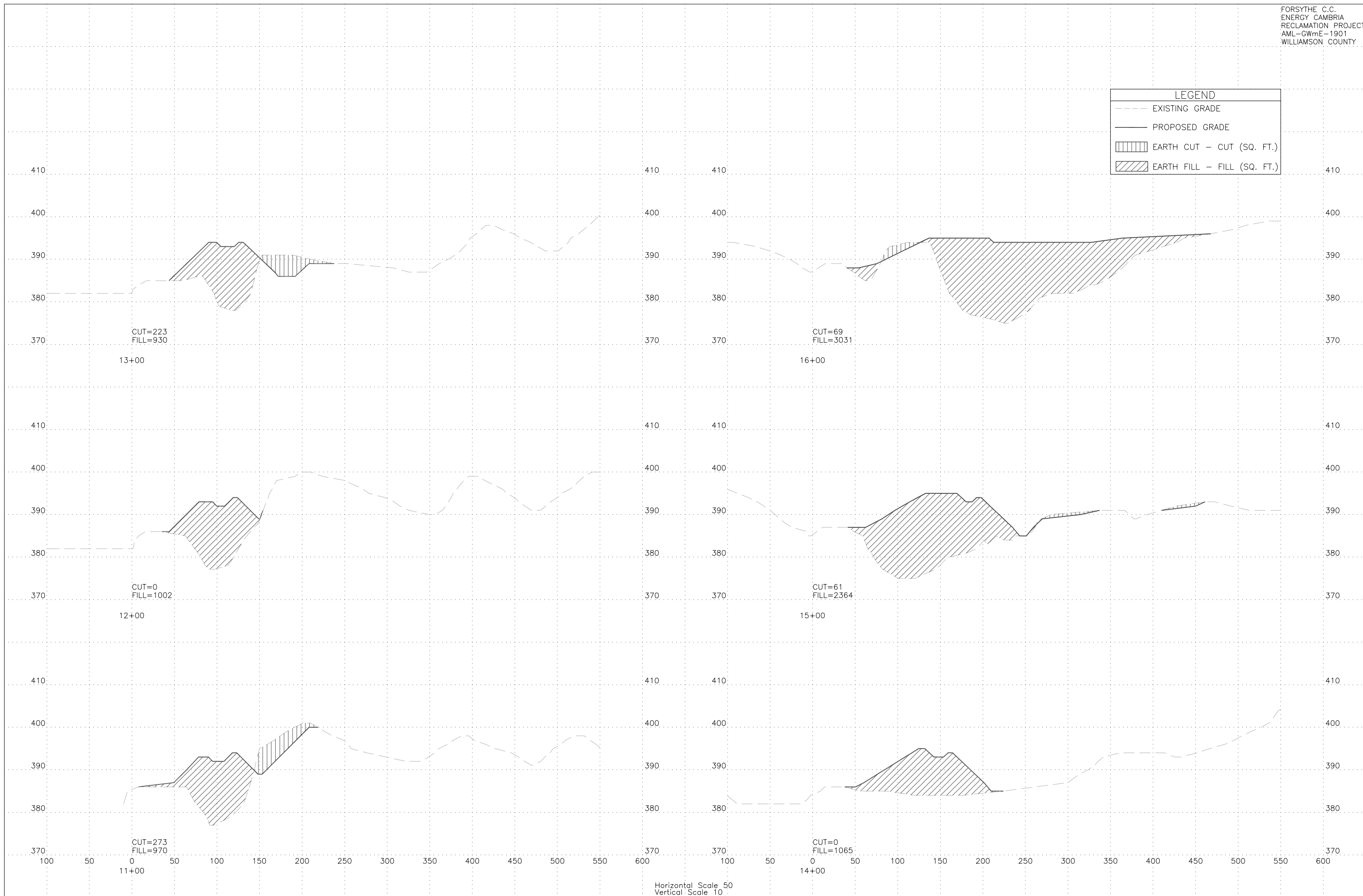
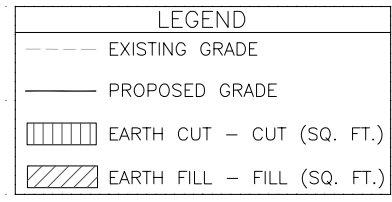
**Proposed Conditions**  
**Sheet 21 of 47**

LEGEND	
- - -	EXISTING GRADE
—	PROPOSED GRADE
[Vertical Hatching]	EARTH CUT - CUT (SQ. FT.)
[Diagonal Hatching]	EARTH FILL - FILL (SQ. FT.)



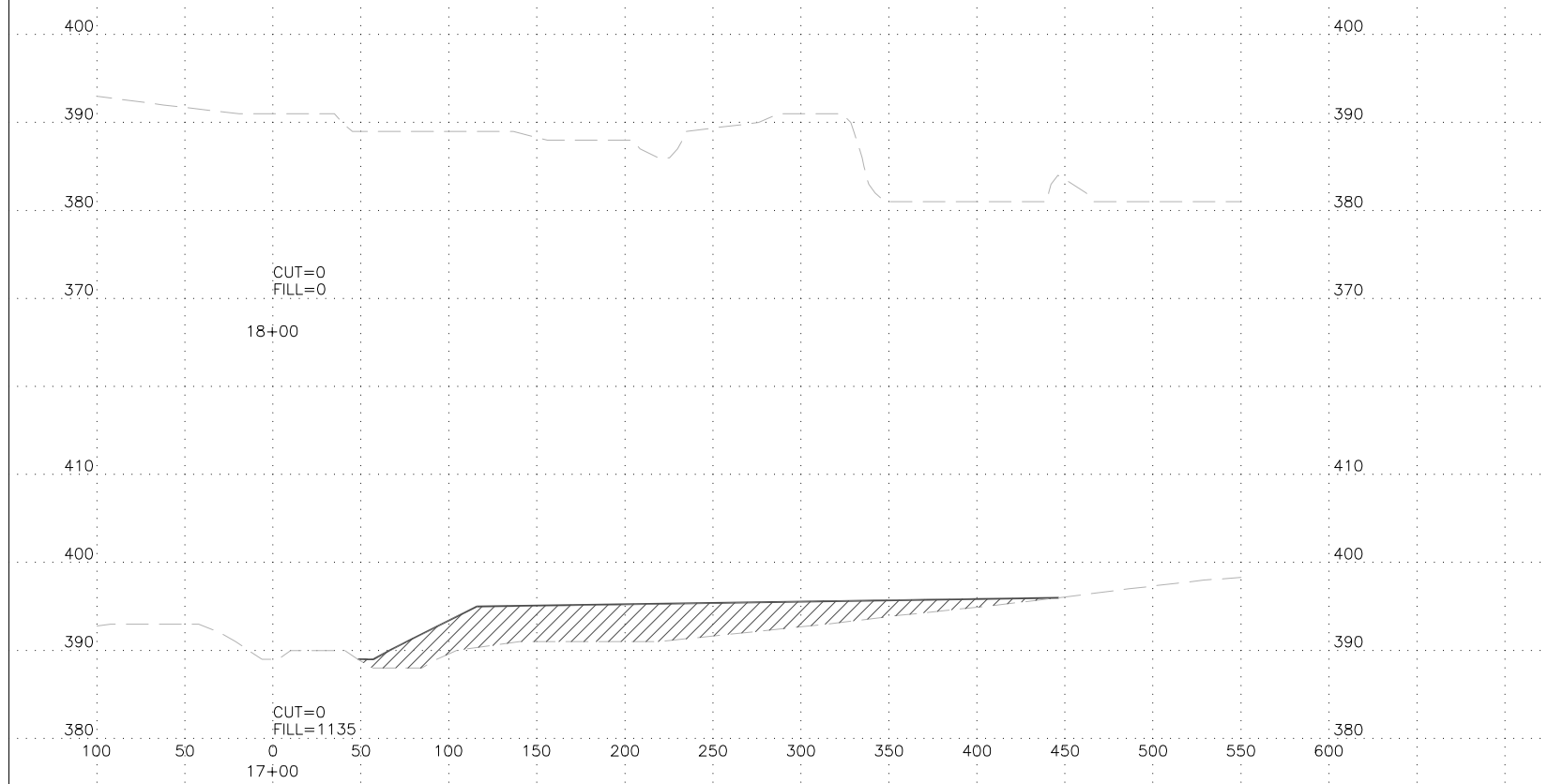
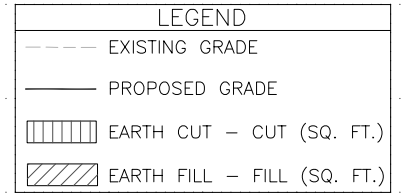
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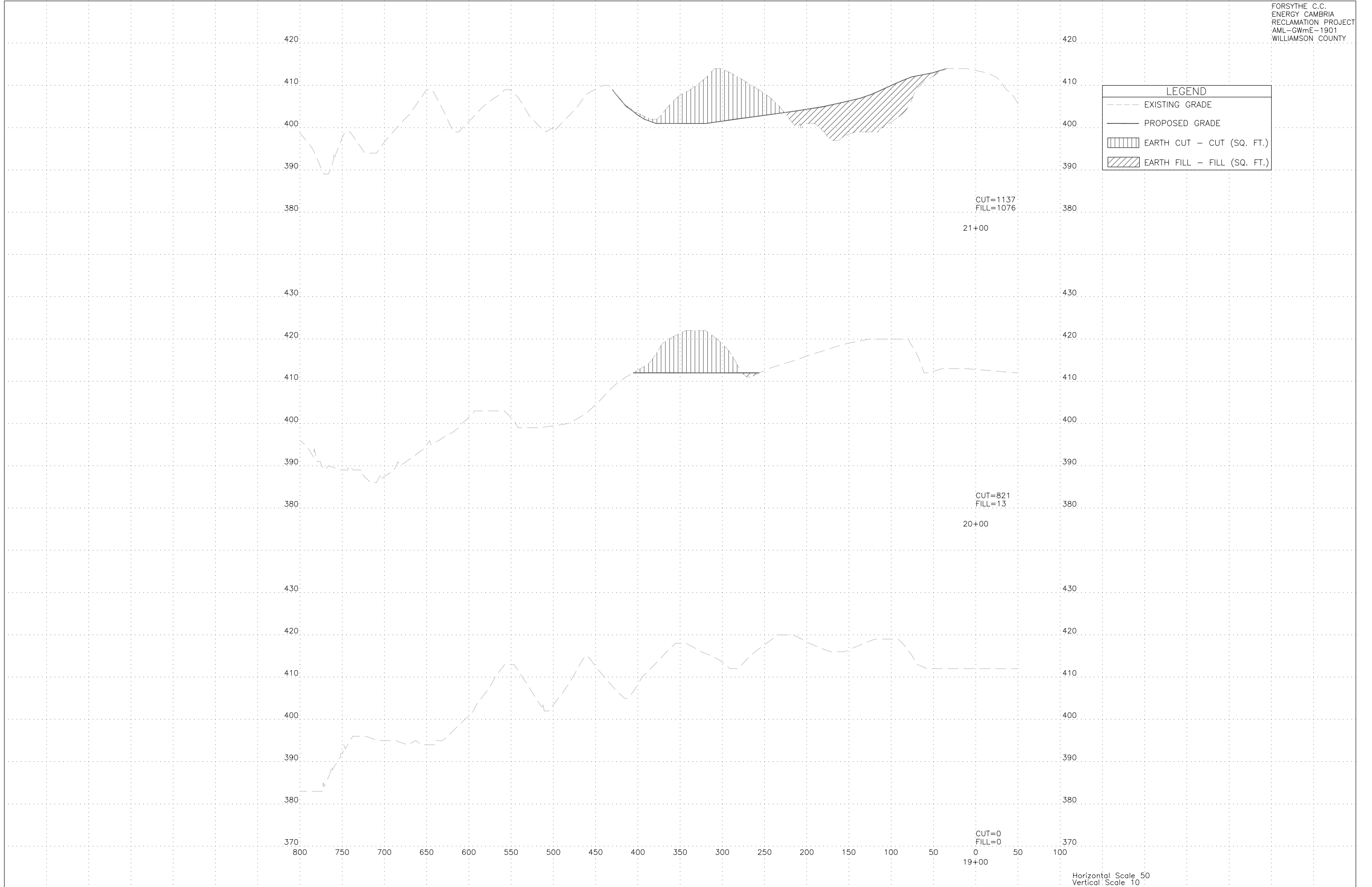


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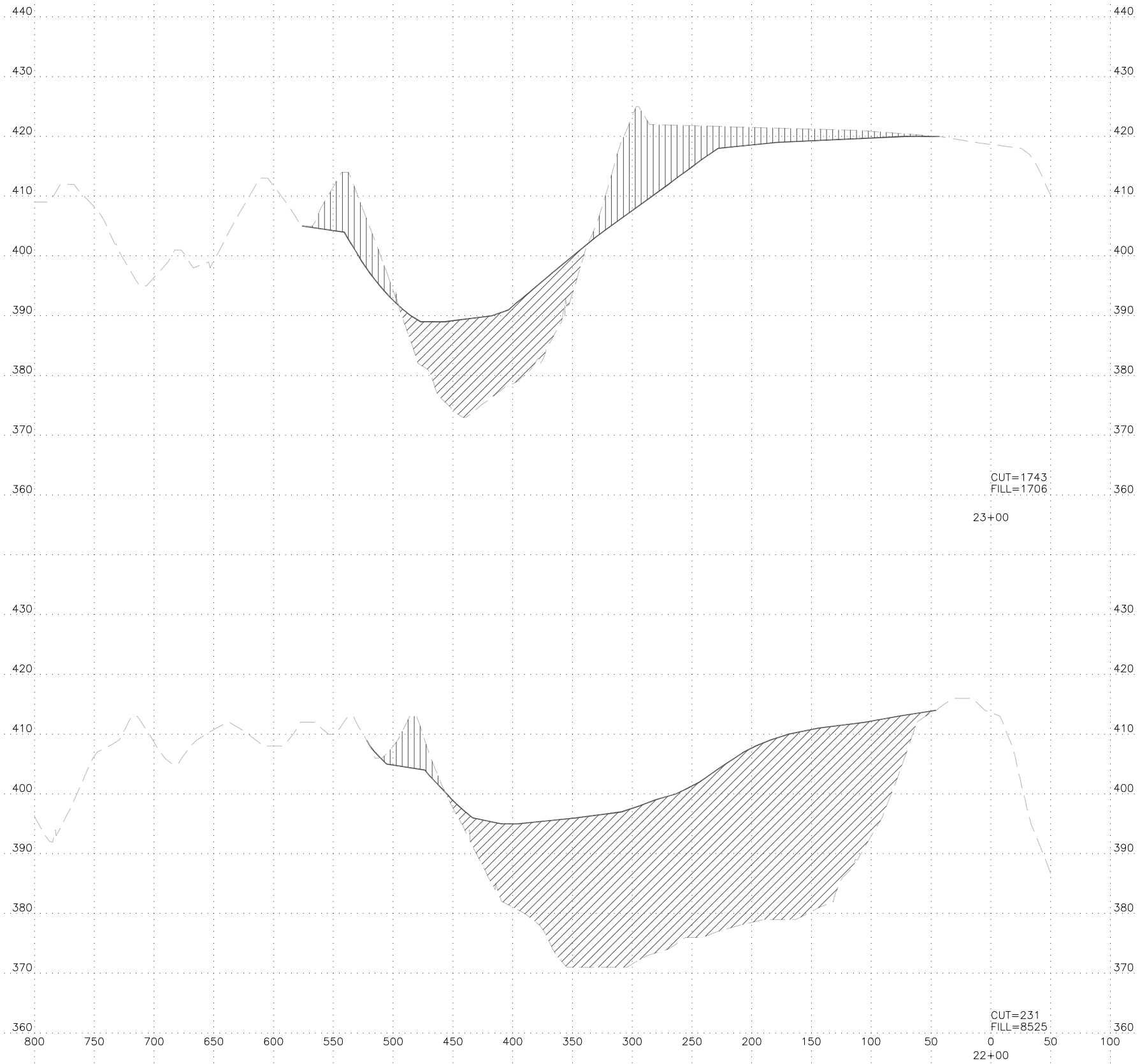
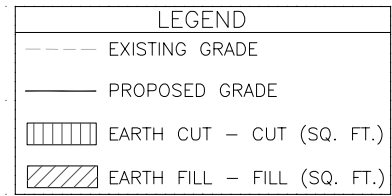




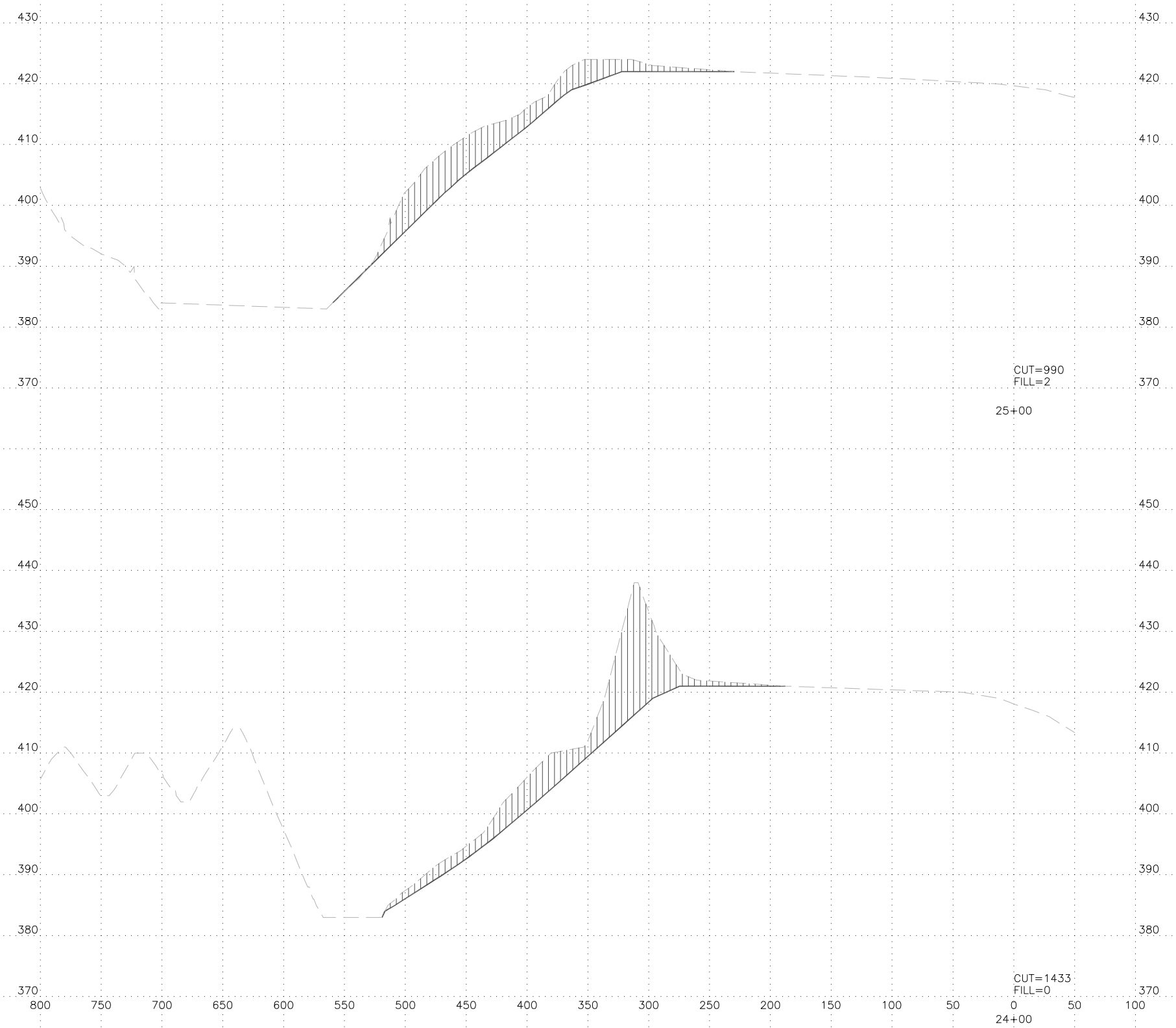
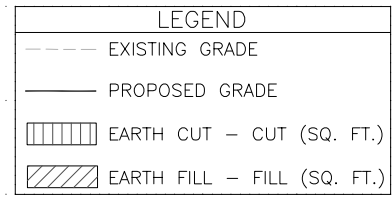
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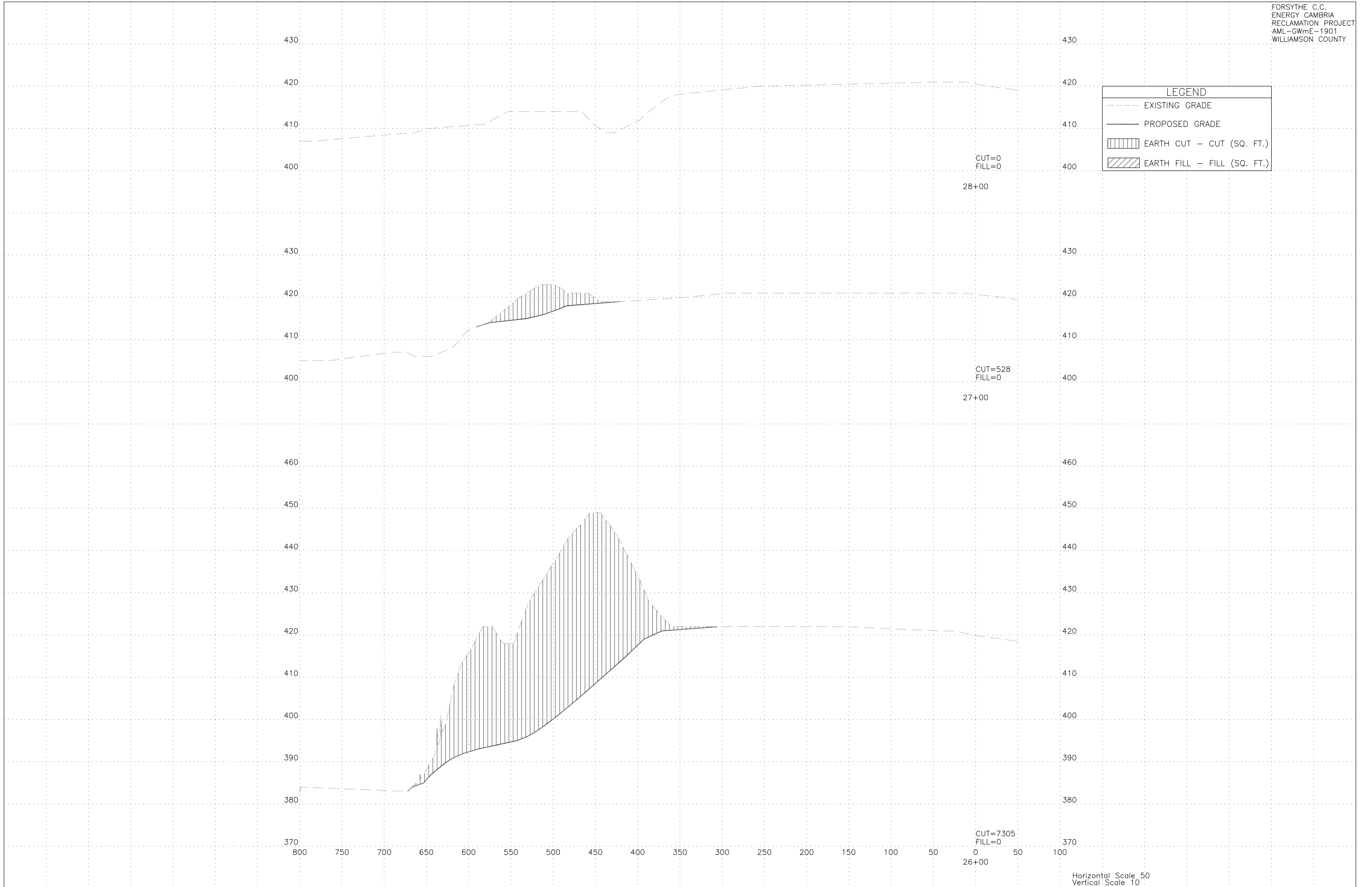
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Horizontal Scale 50  
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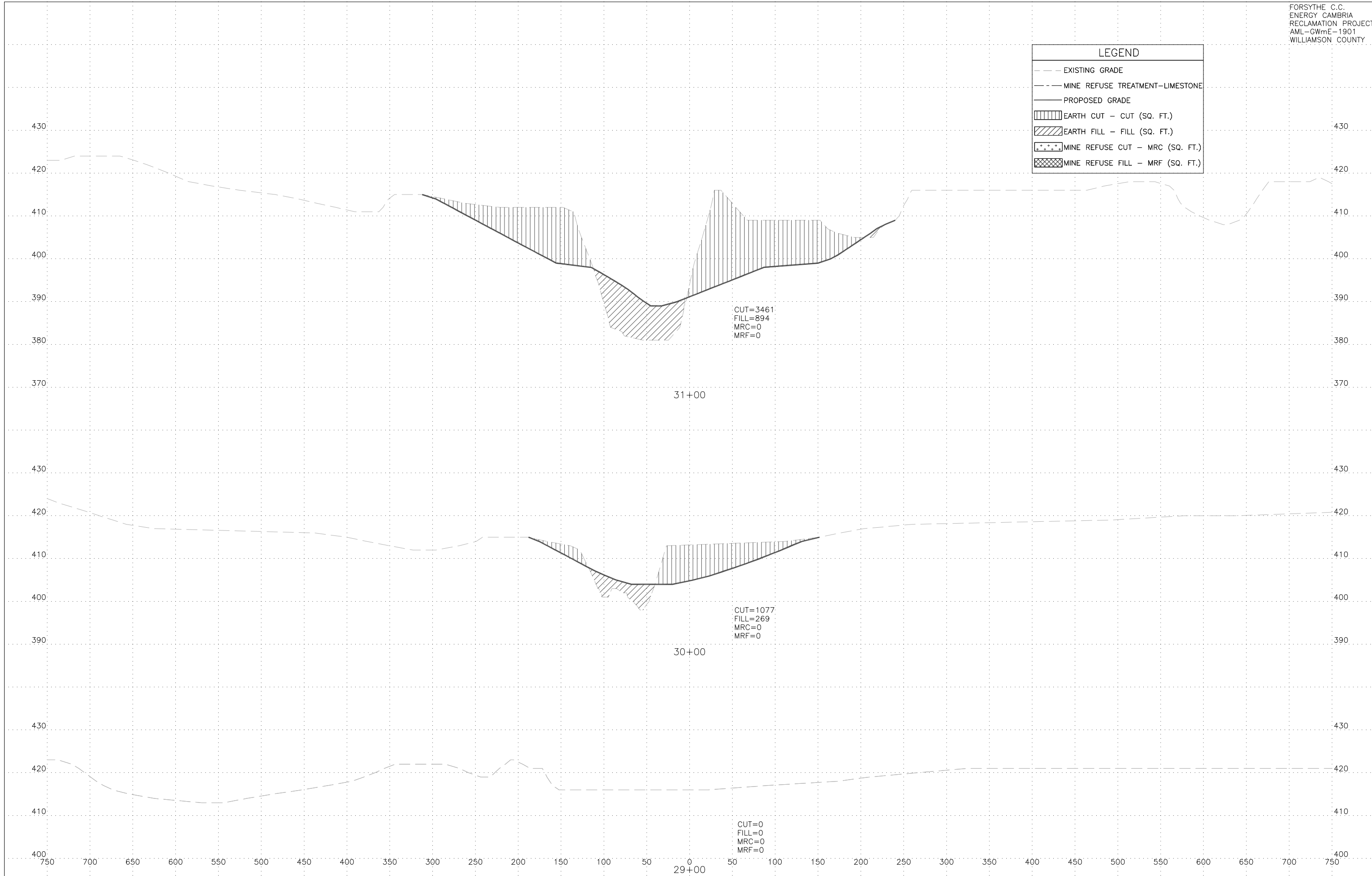


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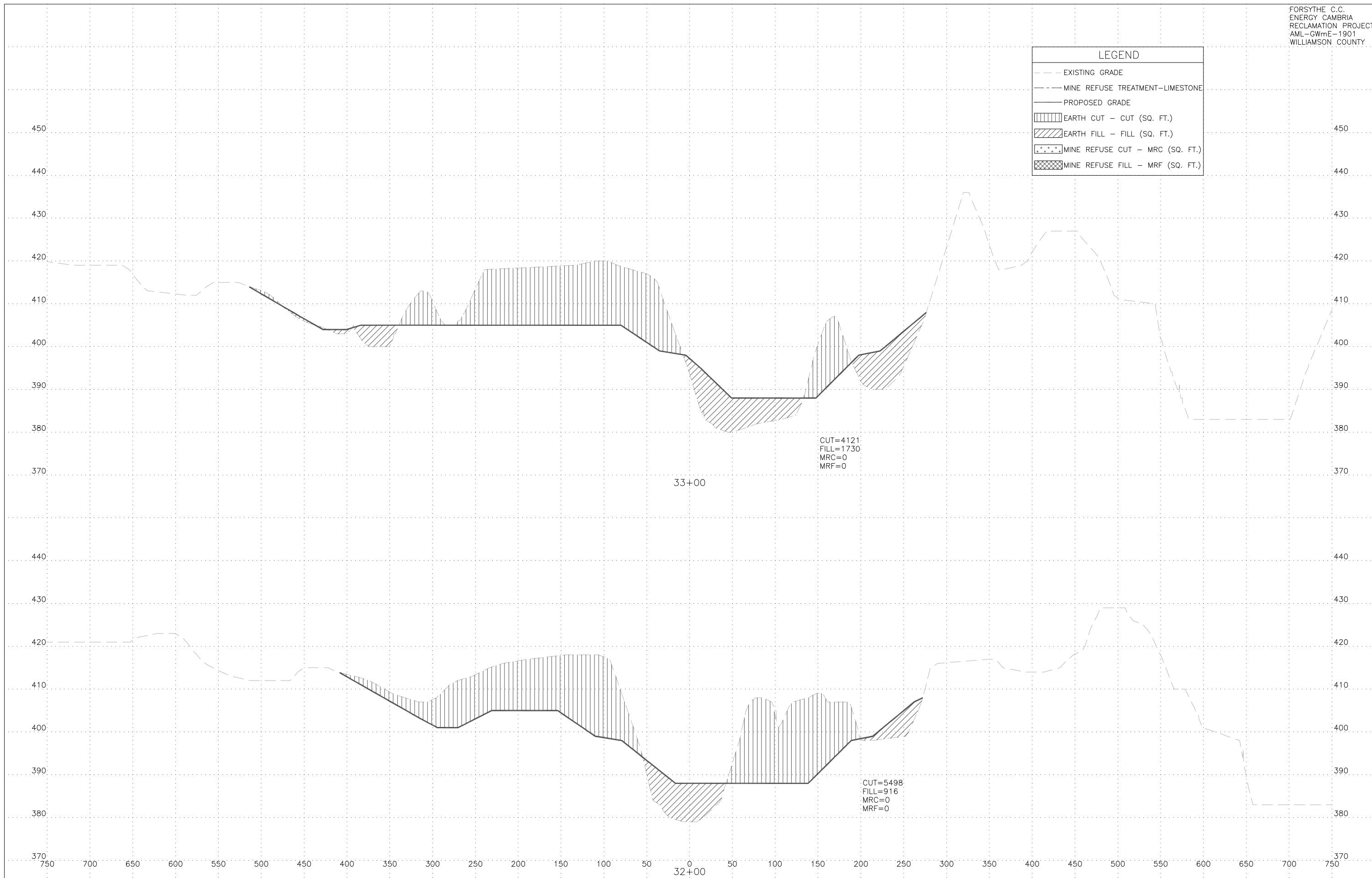
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LEGEND	
- - -	EXISTING GRADE
- - -	MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
[Vertical Lines]	EARTH CUT - CUT (SQ. FT.)
[Diagonal Lines]	EARTH FILL - FILL (SQ. FT.)
[Dotted]	MINE REFUSE CUT - MRC (SQ. FT.)
[Cross-hatch]	MINE REFUSE FILL - MRF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



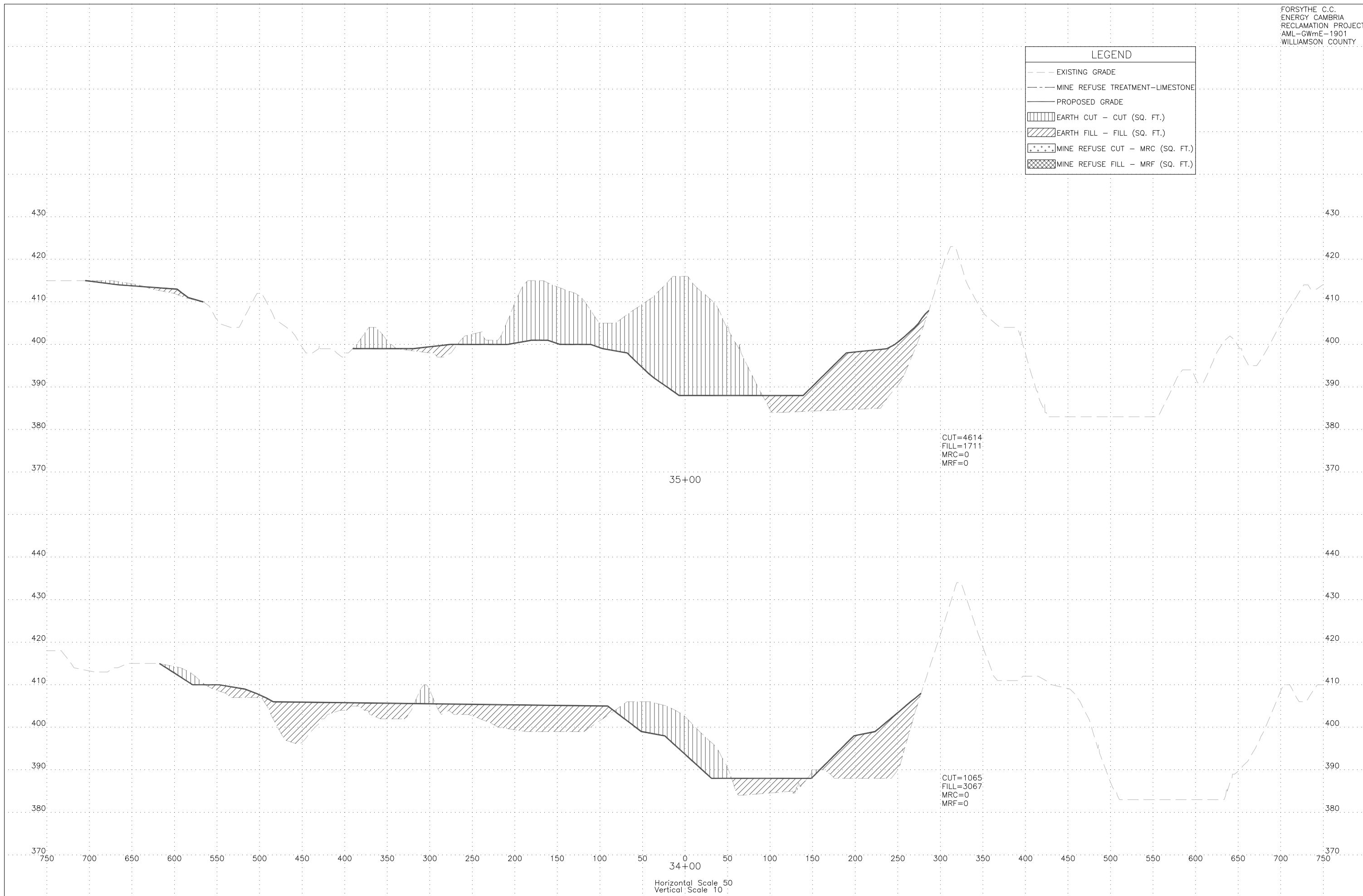
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LEGEND	
- - -	EXISTING GRADE
- - -	MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
	EARTH CUT - CUT (SQ. FT.)
////	EARTH FILL - FILL (SQ. FT.)
***	MINE REFUSE CUT - MRC (SQ. FT.)
XXXX	MINE REFUSE FILL - MRF (SQ. FT.)



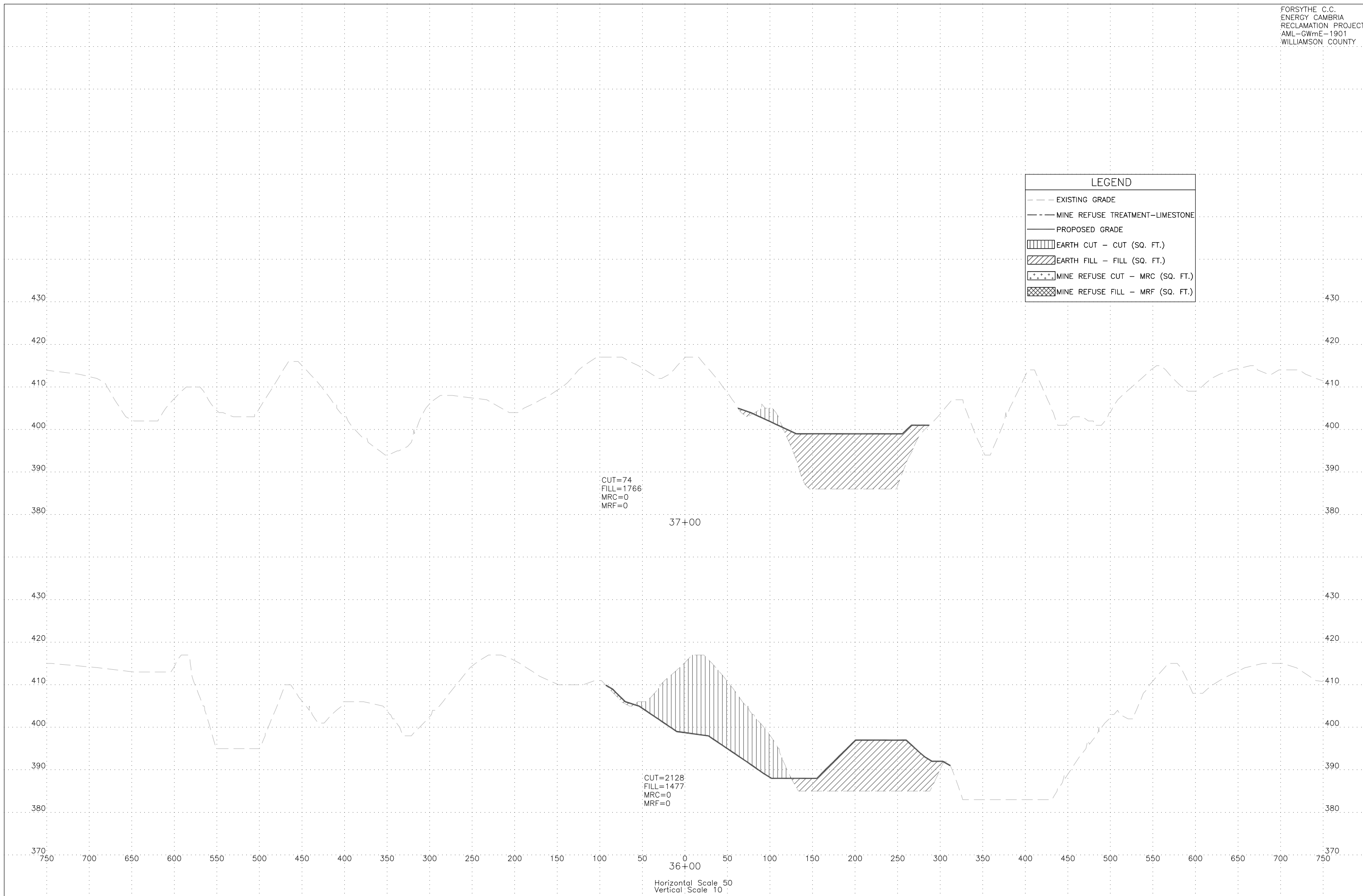
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LEGEND	
---	EXISTING GRADE
- - -	MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
	EARTH CUT - CUT (SQ. FT.)
////	EARTH FILL - FILL (SQ. FT.)
***	MINE REFUSE CUT - MRC (SQ. FT.)
XXXX	MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50  
 Vertical Scale 10





LEGEND	
---	EXISTING GRADE
-.-	MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
	EARTH CUT - CUT (SQ. FT.)
////	EARTH FILL - FILL (SQ. FT.)
.....	MINE REFUSE CUT - MRC (SQ. FT.)
XXXX	MINE REFUSE FILL - MRF (SQ. FT.)

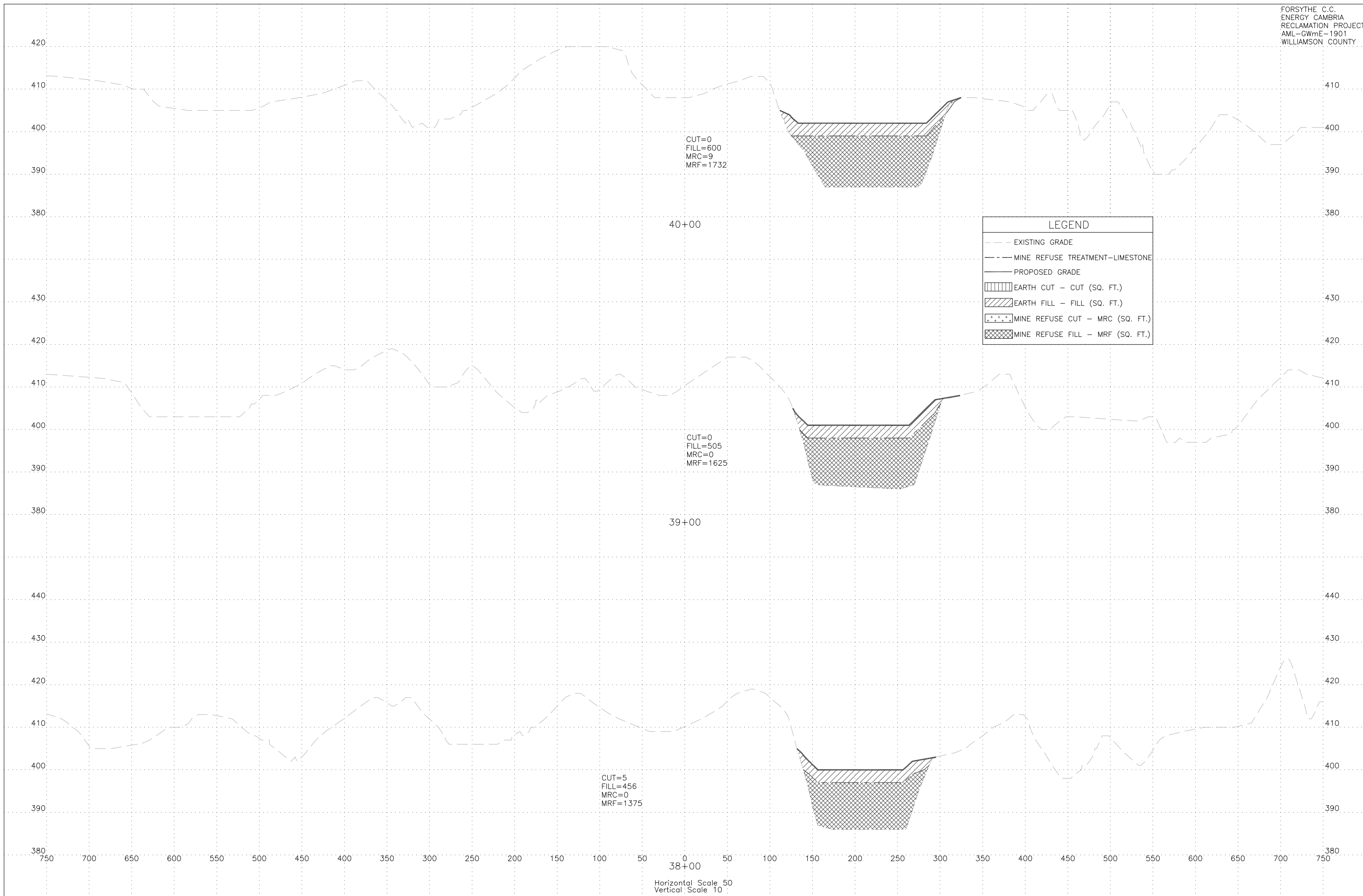
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 MRF=0

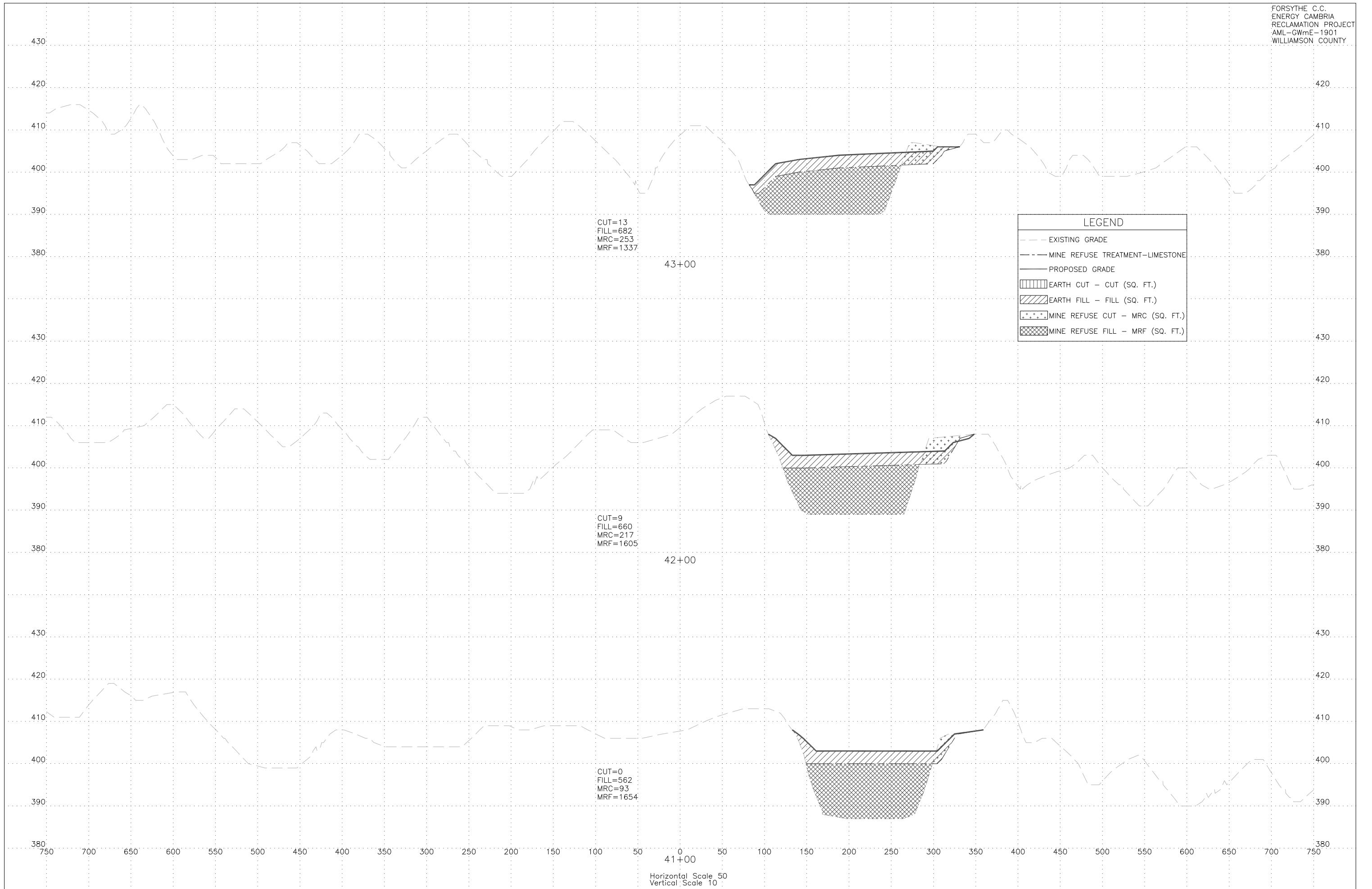
37+00

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 FILL=1477  
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 MRF=0

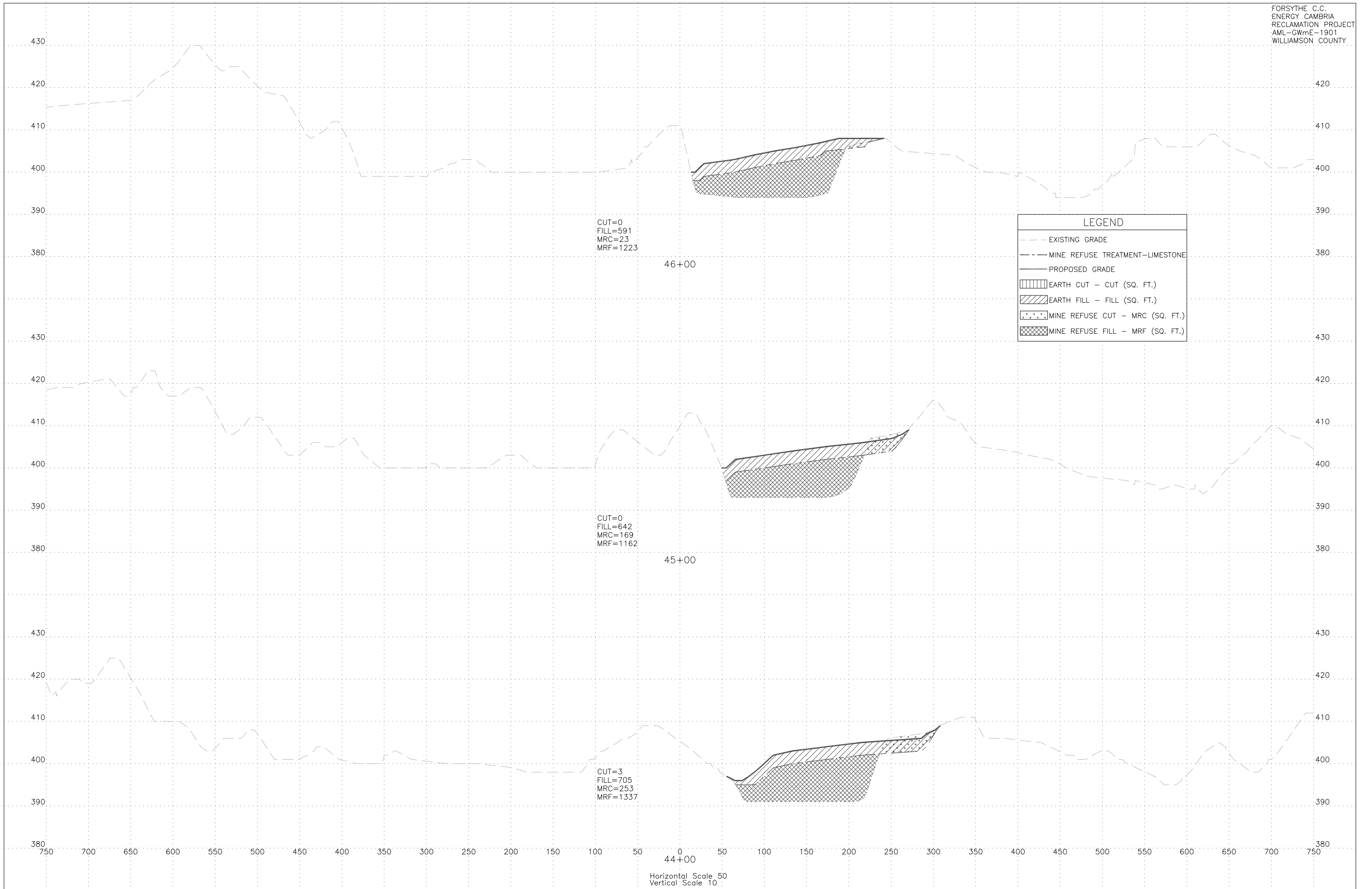
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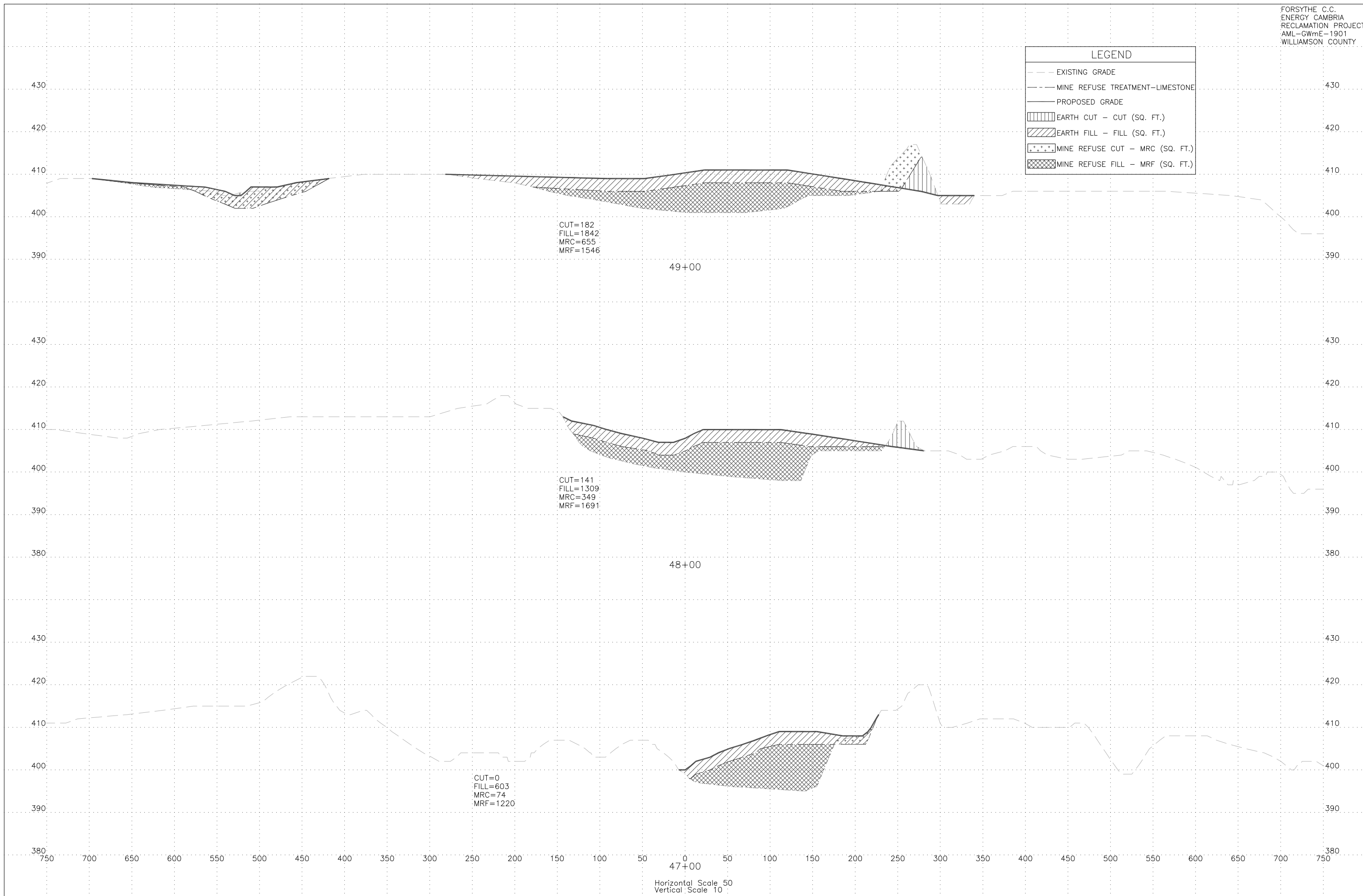
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Horizontal Scale 50  
 Vertical Scale 10

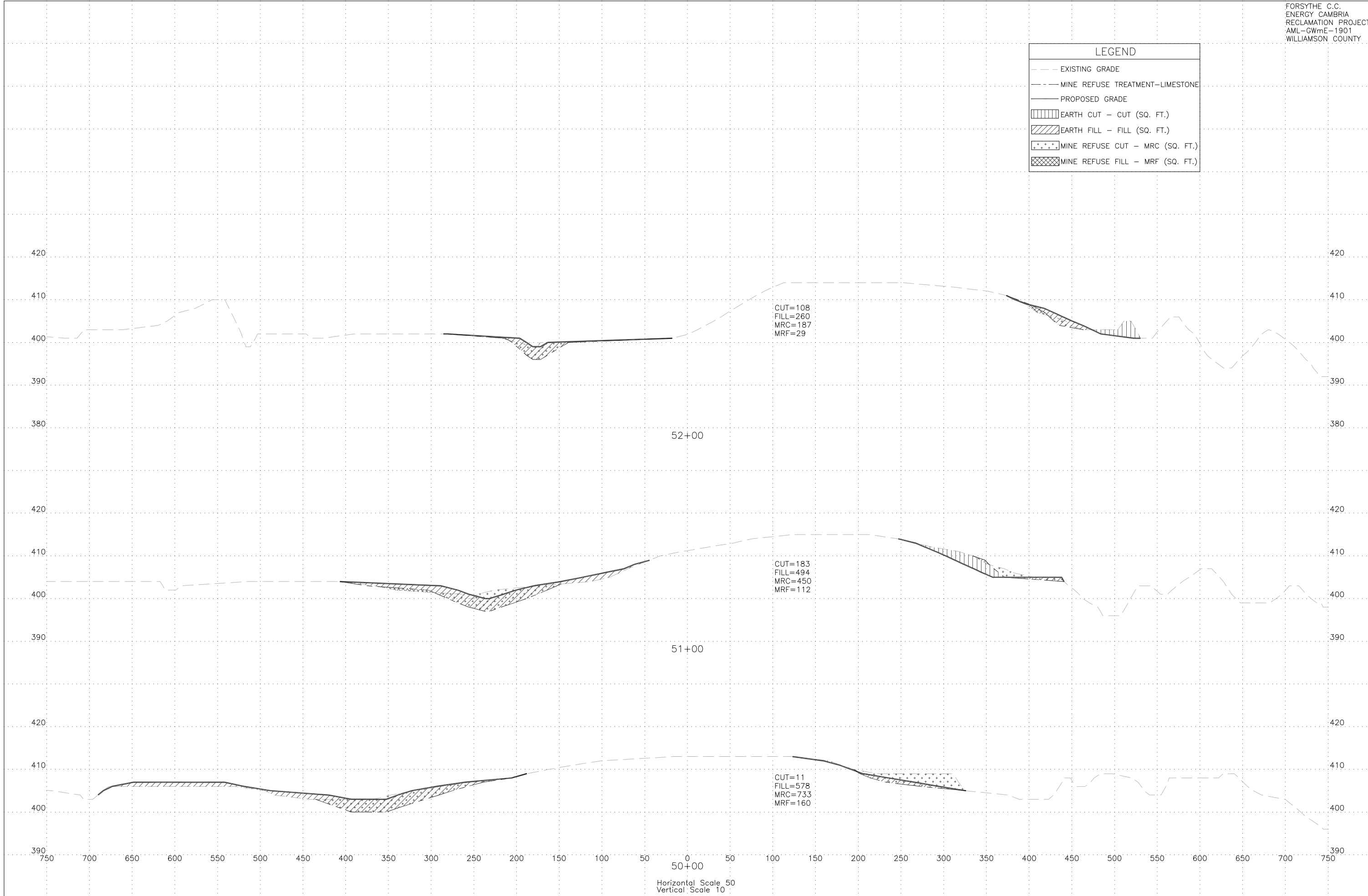
**LEGEND**

- EXISTING GRADE
- - - MINE REFUSE TREATMENT-LIMESTONE
- PROPOSED GRADE
- ▨ EARTH CUT - CUT (SQ. FT.)
- ▩ EARTH FILL - FILL (SQ. FT.)
- ⋄ MINE REFUSE CUT - MRC (SQ. FT.)
- ⊞ MINE REFUSE FILL - MRF (SQ. FT.)



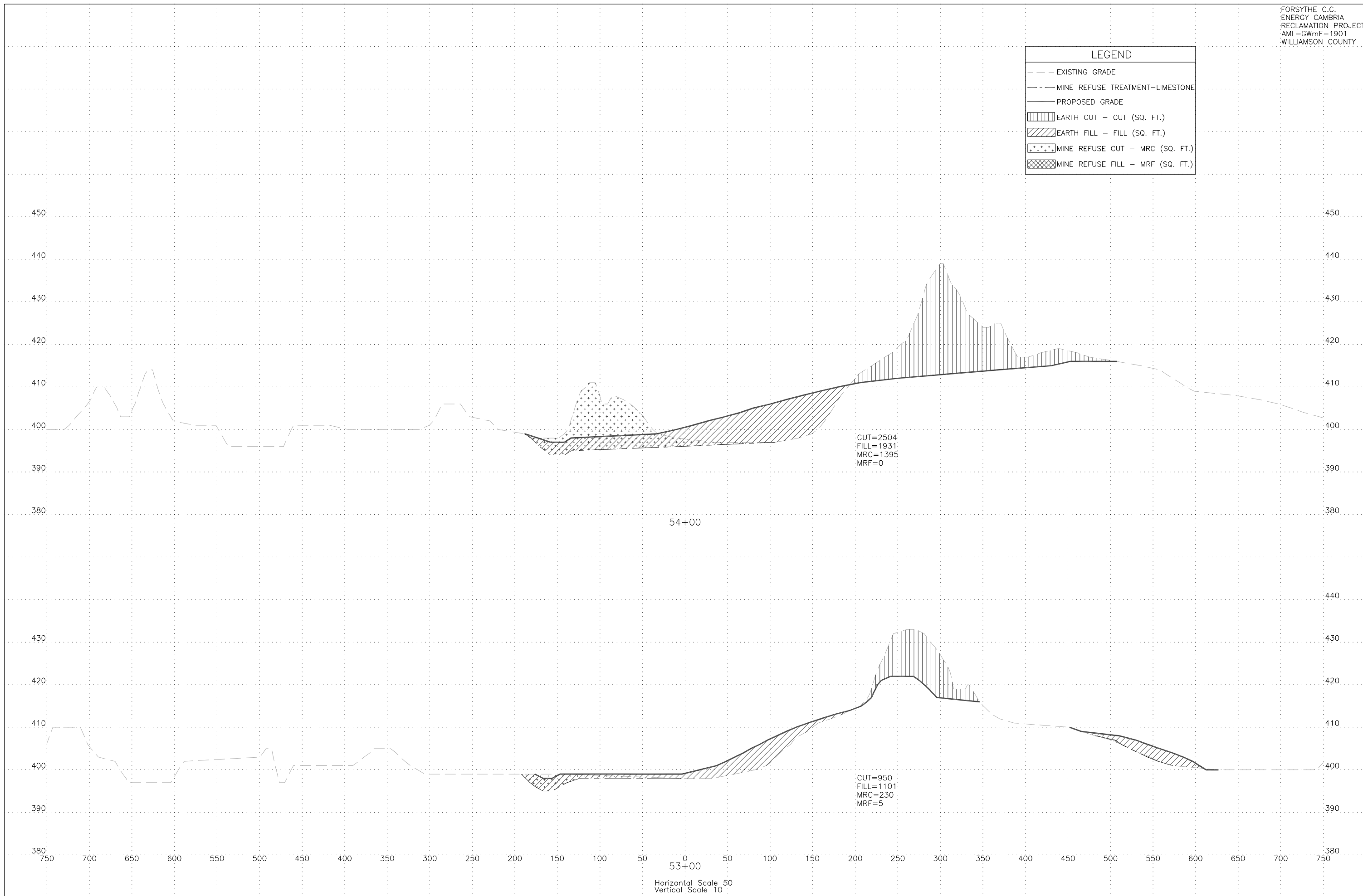
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LEGEND	
---	EXISTING GRADE
- - -	MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
▨	EARTH CUT - CUT (SQ. FT.)
▩	EARTH FILL - FILL (SQ. FT.)
⋄	MINE REFUSE CUT - MRC (SQ. FT.)
⊠	MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50  
 Vertical Scale 10

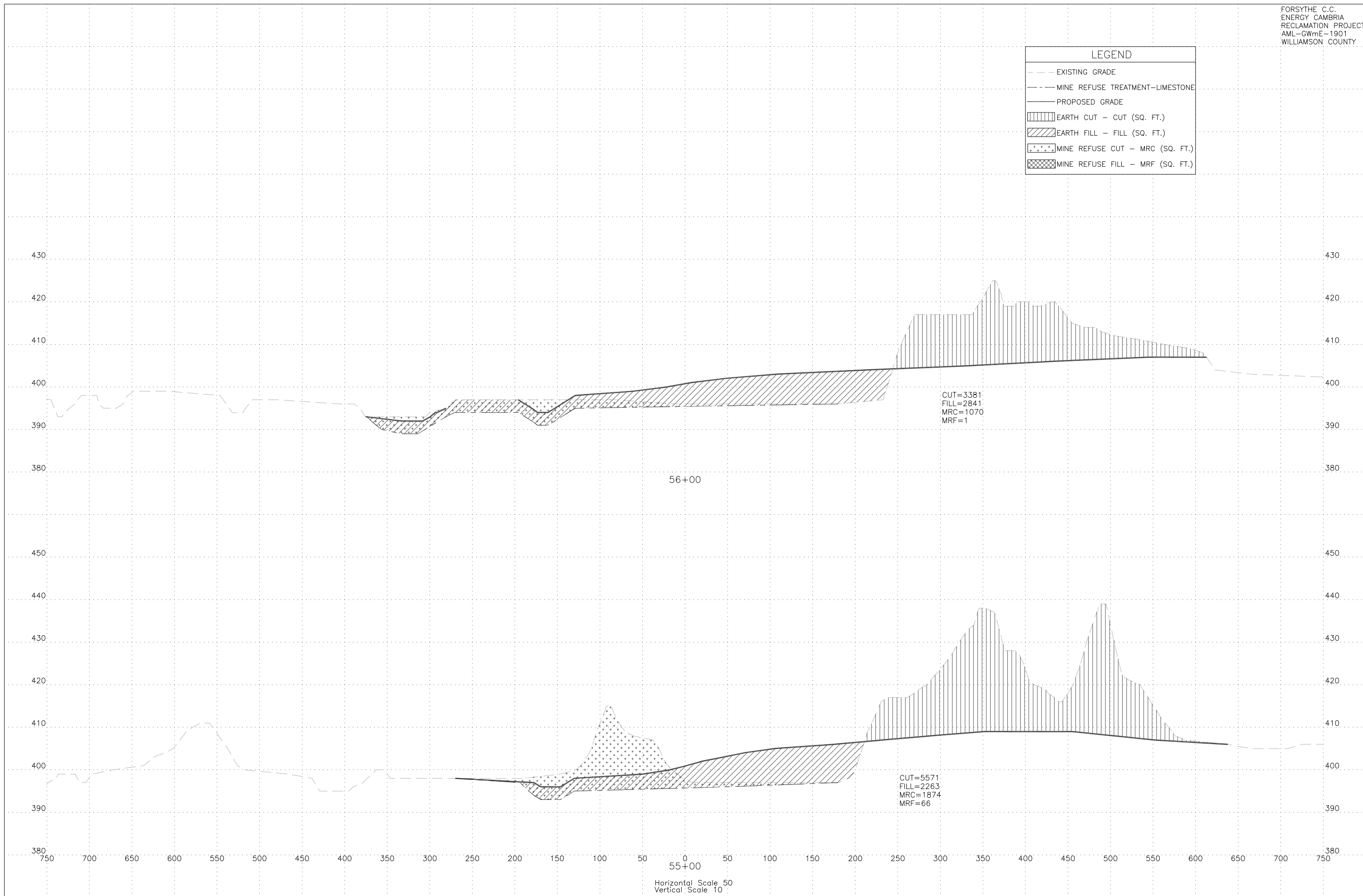
LEGEND	
---	EXISTING GRADE
- - -	MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
	EARTH CUT - CUT (SQ. FT.)
////	EARTH FILL - FILL (SQ. FT.)
***	MINE REFUSE CUT - MRC (SQ. FT.)
XXXX	MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50  
 Vertical Scale 10

**LEGEND**

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



Horizontal Scale 50  
 Vertical Scale 10

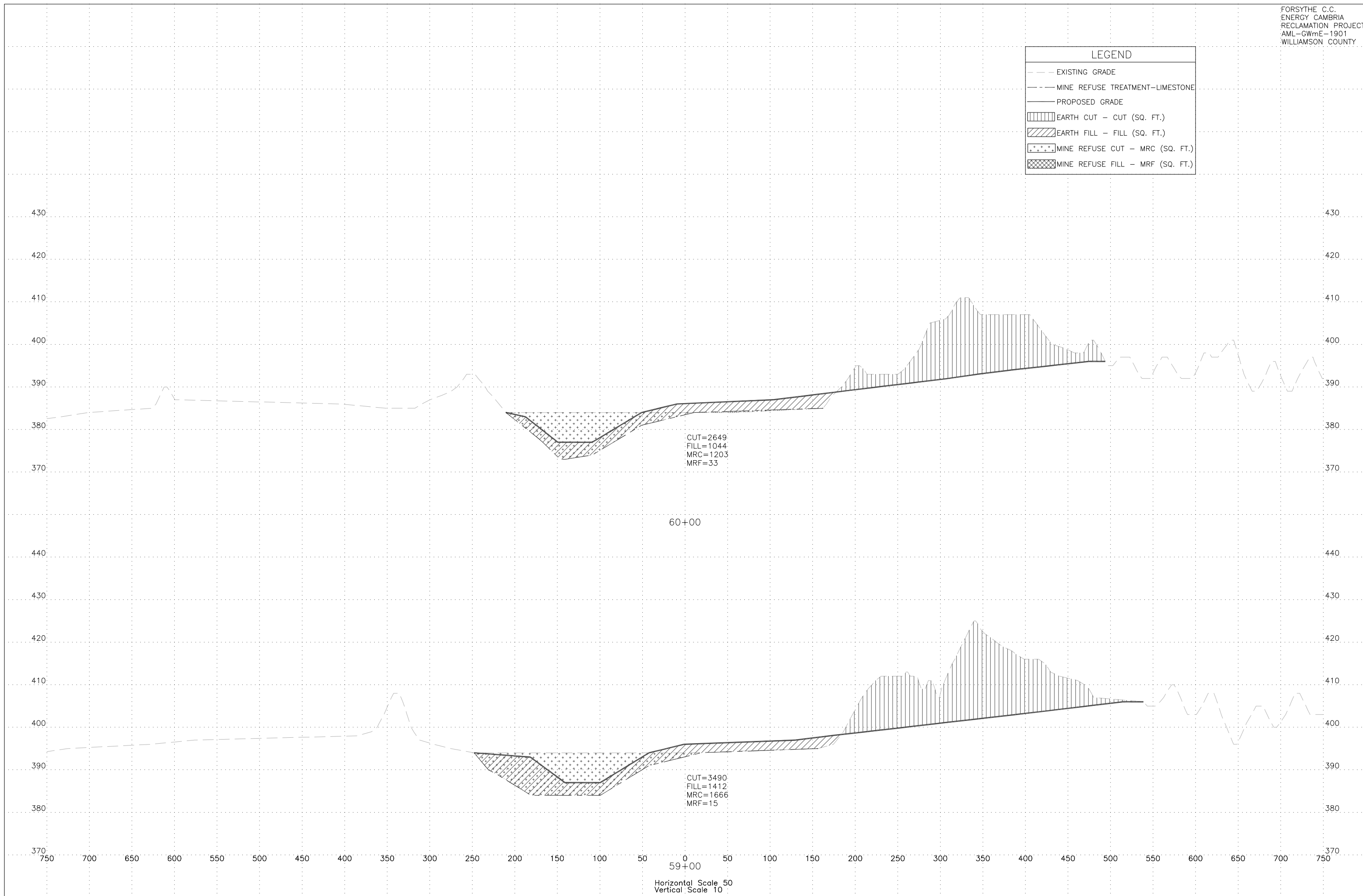


LEGEND	
---	EXISTING GRADE
- - -	MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
	EARTH CUT - CUT (SQ. FT.)
////	EARTH FILL - FILL (SQ. FT.)
***	MINE REFUSE CUT - MRC (SQ. FT.)
XXXX	MINE REFUSE FILL - MRF (SQ. FT.)

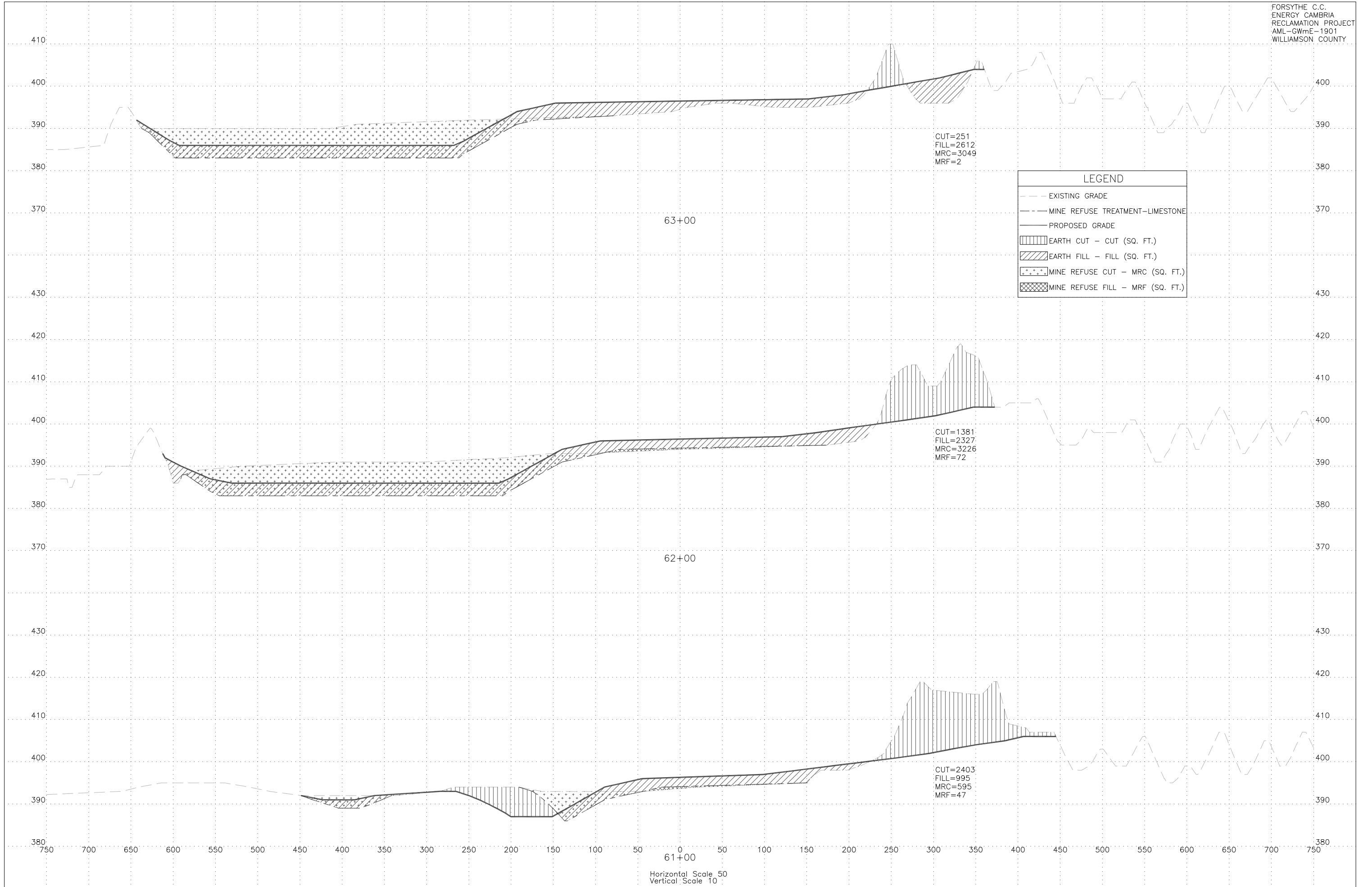


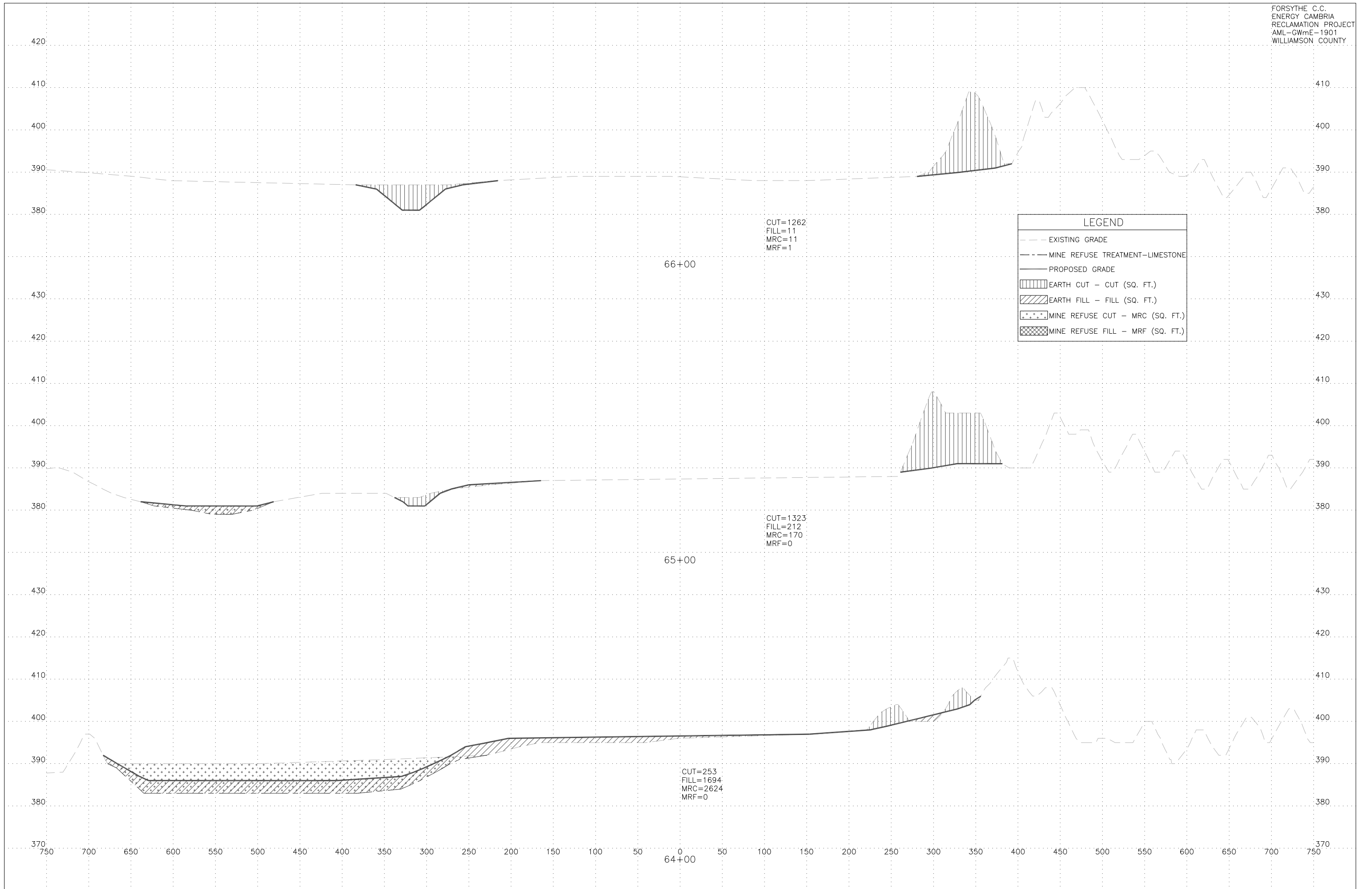
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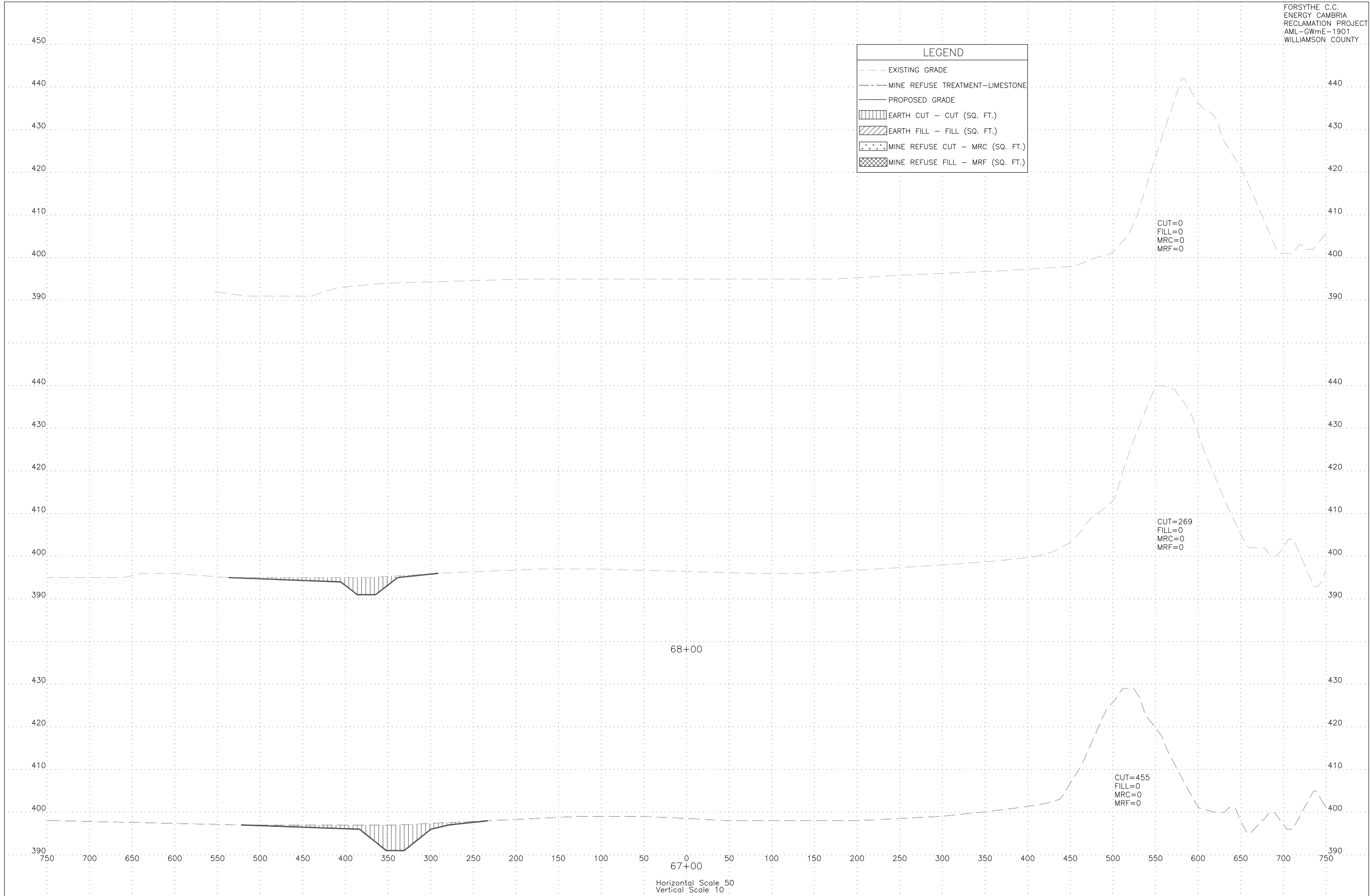
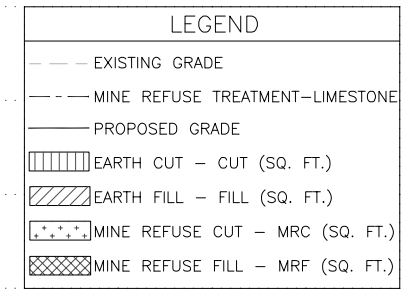
LEGEND	
---	EXISTING GRADE
- - -	MINE REFUSE TREATMENT-LIMESTONE
—	PROPOSED GRADE
	EARTH CUT - CUT (SQ. FT.)
////	EARTH FILL - FILL (SQ. FT.)
***	MINE REFUSE CUT - MRC (SQ. FT.)
XXXX	MINE REFUSE FILL - MRF (SQ. FT.)



Horizontal Scale 50  
 Vertical Scale 10







Horizontal Scale 50  
 Vertical Scale 10

SPACING LETTERS

- 4.5"
- 3.5"
- 1.5"
- 3.5"
- 2.5"
- 3.5"
- 3.5"
- 2.5"
- 3.5"
- 2.5"
- 3.0"
- 1.5"
- 2.0"
- 2.0"
- 4.5"

# ABANDONED MINED LANDS RECLAMATION PROJECT STATE OF ILLINOIS

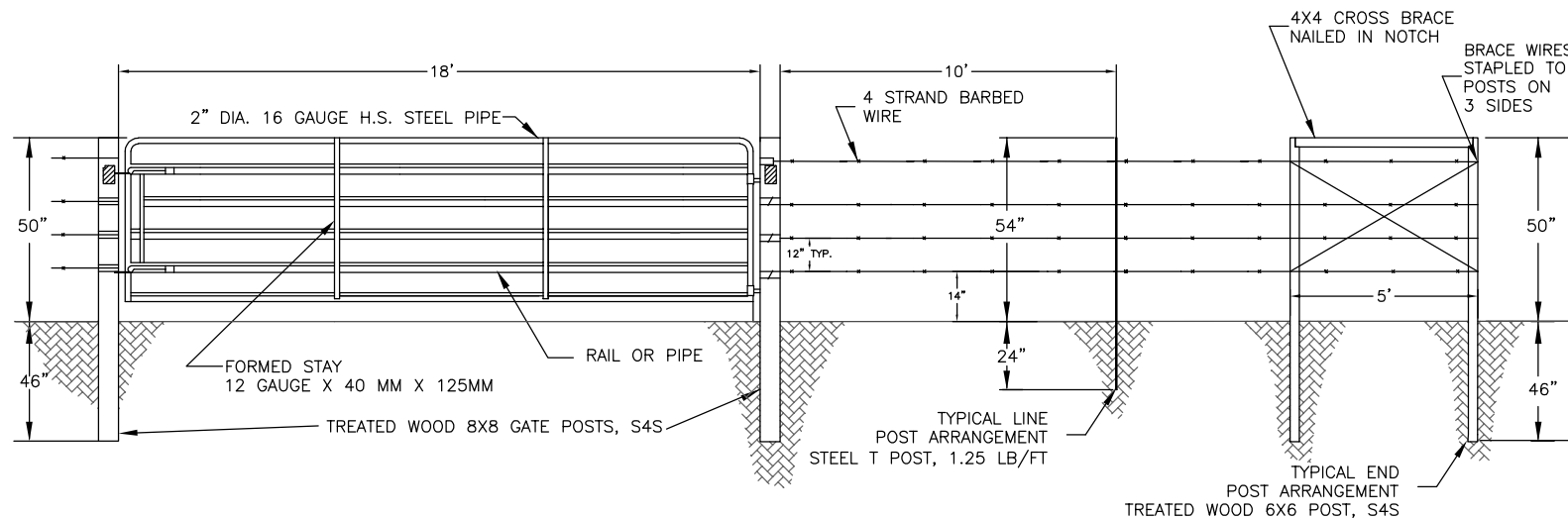


J.B. PRITZKER, GOVERNOR

Department of Natural Resources  
Colleen Callahan, Director

Funding provided by the US Department of the Interior  
Office of Surface Mining, with fees paid by the Coal Industry

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.

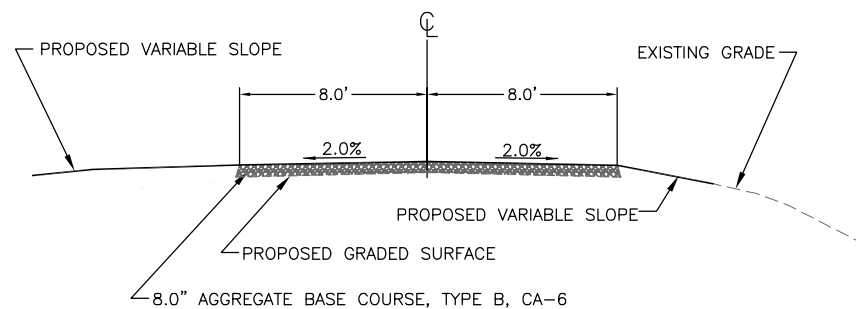


## FENCE AND ENTRANCE GATE

DETAIL B-46, TYPICAL SECTION, NOT TO SCALE

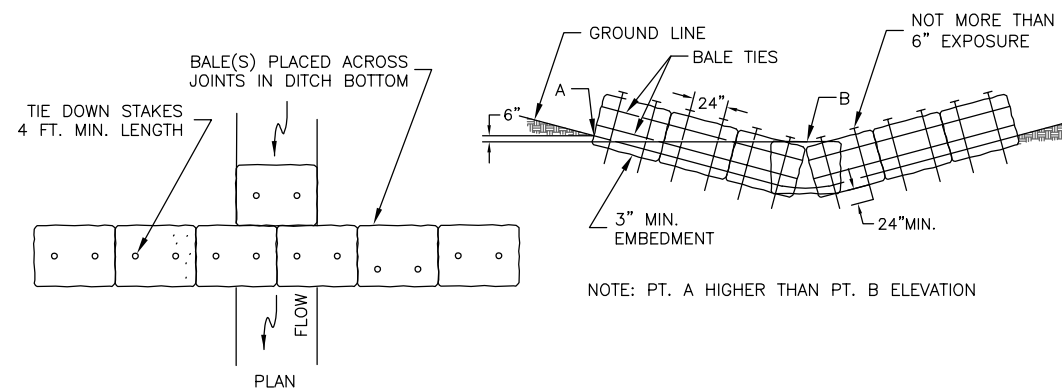
## CONSTRUCTION SIGN

DETAIL A-46, NOT TO SCALE, EXACT LOCATION TO BE SET BY ENGINEER



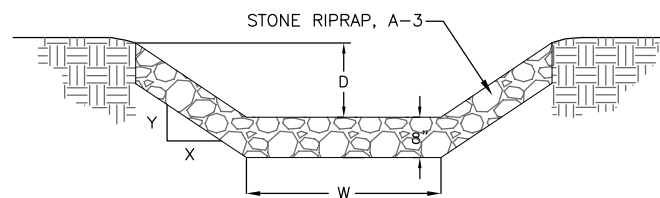
## ACCESS ROAD & DRIVEWAY

DETAIL C-46, TYPICAL SECTION, NOT TO SCALE



## STRAW BALES FOR DITCH CHECKS

DETAIL D-46, TYPICAL SECTION, NOT TO SCALE



## STONE RIPRAP TRAPEZOIDAL CHANNEL

DETAIL E-46, TYPICAL SECTION, NOT TO SCALE

BASELINE	CHANNEL	"W" DIMENSION	"D" DIMENSION	"X:Y" SLOPE	LENGTH	CHANNEL (SQ. YD.)	APRON QUANTITY (SQ. YD.)	TOTAL (SQ. YD.)
BASELINE A	CHANNEL A	6 FT.	1 FT.	5:1	155 FT.	313	INLET 110 SQ. YD. - OUTLET 721 SQ. YD.	1,144
BASELINE C	CHANNEL B	8 FT.	1 FT.	8:1	1,190 FT.	3,190	INLET 368 SQ. YD. - OUTLET 140 SQ. YD.	3,698
BASELINE C	CHANNEL C	8 FT.	1 FT.	6:1	658	1,750	INLET 0 SQ. YD. - OUTLET 195 SQ. YD.	1,945

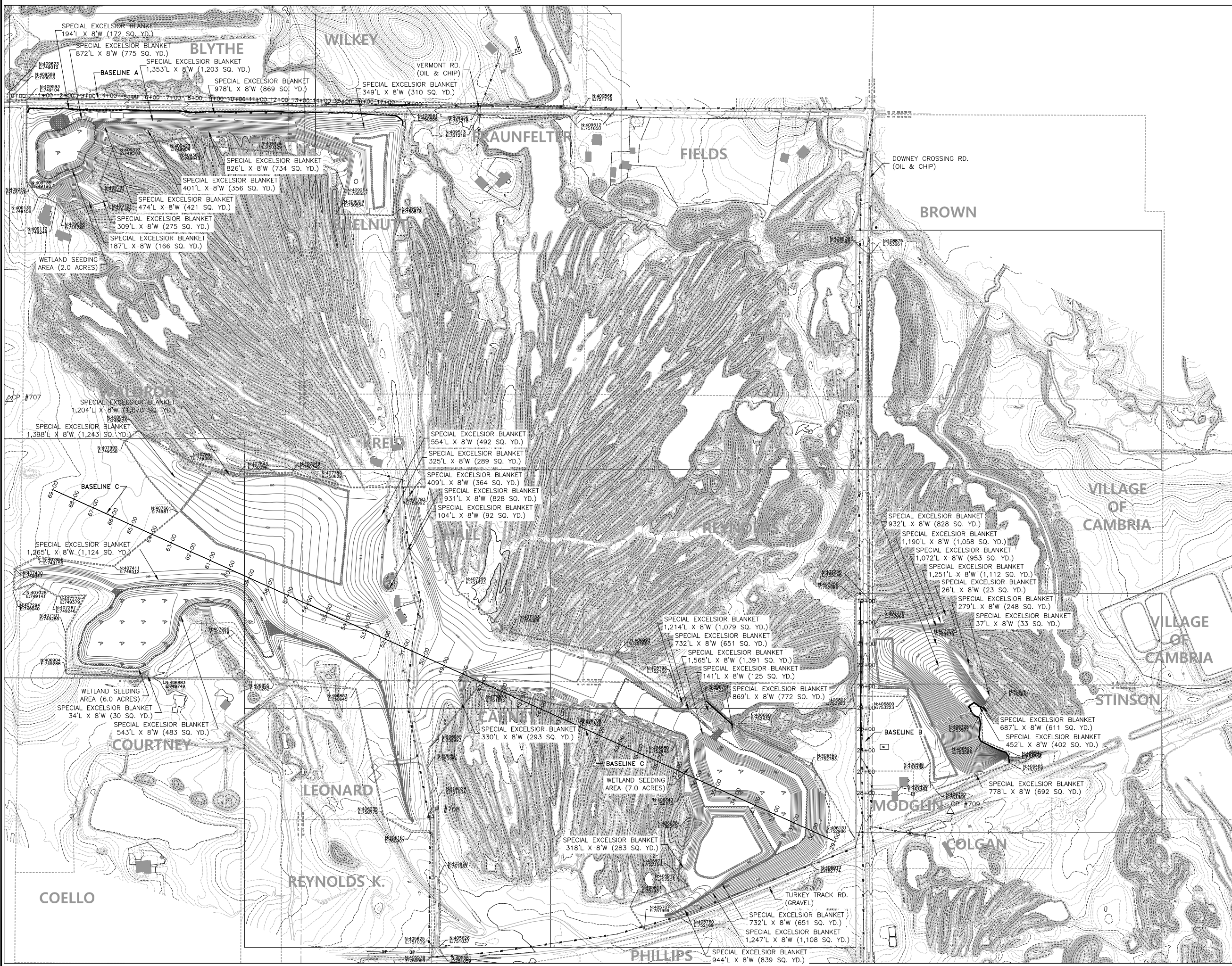
State of Illinois  
Department of Natural Resources

Forsythe Energy C.C. Cambria  
Reclamation Project  
AML-GWmE-1901  
Williamson County

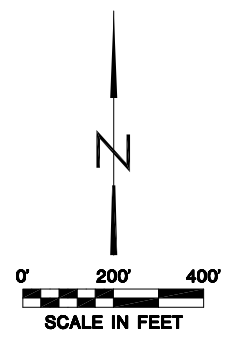
Drawn By: OMA Date: 04-13-18  
Checked By:

Details Sheet

Sheet 46 of 47



- NOTES:
1. ALL CLEARING SHALL BE IN ACCORDANCE WITH SECTION 201.
  2. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 205 OF THE SPECIAL PROVISIONS. ALONG THE ACCESS ROAD, COMPACTION WILL BE REQUIRED TO THE VERY TOP OF THE SUBGRADE, INCLUDING THE TOP 12 INCHES.
  3. IMPOUNDMENTS ARE TO BE DEWATERED IN ACCORDANCE WITH SECTION 614 OF THE SPECIAL PROVISIONS. APPROXIMATE IMPOUNDMENT VOLUMES ARE SHOWN ON THE PLANS.
  4. 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 DEWATERING IMPOUNDMENTS.
  5. TREE PLANTING AND CARE SHALL BE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION 253, PLANTING WOODY PLANTS, AND THE IDOT SUPPLEMENTAL SPECIFICATION FOR SECTION 253. TREE PLANTING LOCATIONS SHALL BE DETERMINED BY THE ENGINEER AT THE TIME OF PLANTING.



4/13	5/14	
		6/15
11/20	10/19	9/18
		7/16
12/21	8/17	

**SHEET LAYOUT**

- EXISTING CONTOUR
  - PROPOSED CONTOUR
  - CONSTRUCTION LIMITS
  - PROP. WETLAND SEEDING
  - PROP. SEEDING
  - PROP. TREE PLANTING AREAS
  - PROP. WATER ELEVATION
  - PROP. WATER SURFACE AREA
  - SECTION LINE
  - FENCE LINE
  - △ CONTROL POINT
- LEGEND**