

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

**River King/Cox Highwall
Reclamation Project
AML-GScE-1106
St. Clair County
1LR**

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Typical Sections
4. Details/Survey Control
5. River King Subsidence Pits
- 6-7. Cox Highwall Existing and Proposed Conditions
- 8-9. Cox Highwall Erosion Control and Planting Plans
- 10-25. Cross Sections

Prepared By IDNR Staff

Approved for Bidding:

Tony Mayville

Tony Mayville, Acting Director
Office of Mines and Minerals

Approved By:

Greg Pinto

Greg Pinto, Acting Manager
AML Division

Approved By:

Lawrence L. Lewis

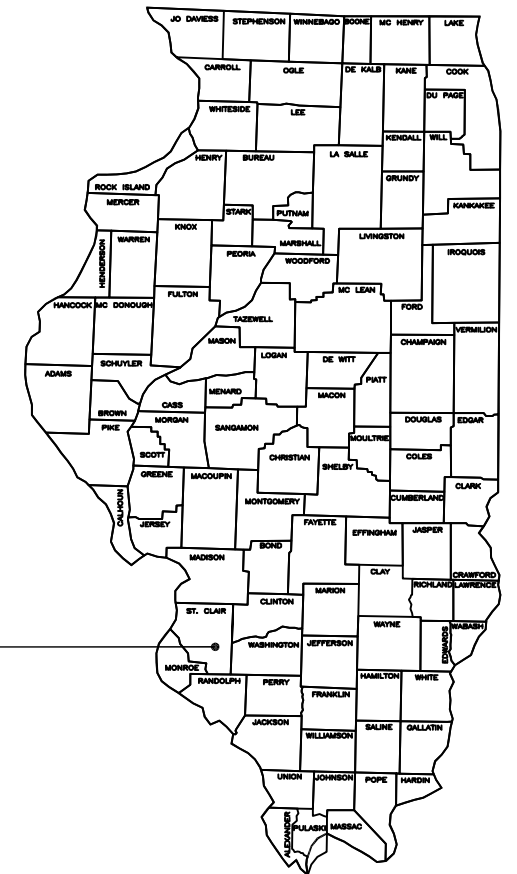
Lawrence L. Lewis, P.E.
IL Licensed Professional Engineer
No. 0062-038880

Certified Copy

River King/Cox Highwall
St. Clair County

Pre-Bid Meeting:

A pre-bid meeting is scheduled for this project at 10:00 A.M.,
Thursday, March 1, 2012 at the Cox Highwall Site.



Summary of Quantities					
#	Item	Section	Quantity	Unit	Rates/Remarks
1	Special Clearing	201	1	L.S.	
2	Earth Excavation	202	103972	C.Y.	
3	Rock Excavation	202	2269	C.Y.	Compaction in accord with 205
4	Furnished Excavation	204	116	C.Y.	
5	Geotechnical Fabric for Ground Stabilization	IDOT 210	3751	S.Y.	
6	Granular Embankment Special	IDOT 210	1182	Ton	CA-11
7	Bentonite Clay-Granular	216	6.7	Ton	
8	Seeding Class 3A, So. IL. Slope Mixture	IDOT 250	15.7	Acre	
9	Seeding - Class 6, Conservation Mixture	IDOT 250	7.3	Acre	
10	Nitrogen Fertilizer Nutrient	IDOT 250	4600	Pound	100 Lbs./Acre - each application
11	Phosphorous Fertilizer Nutrient	IDOT 250	3680	Pound	80 Lbs./Acre - each application
12	Potassium Fertilizer Nutrient	IDOT 250	6900	Pound	150 Lbs./Acre - each application
13	Agricultural Ground Limestone	IDOT 250	115	Ton	5 Tons/Acre - at time of seeding
14	Mulch, Method 2, Procedure 1	IDOT 251	17.8	Acre	2 Tons/Acre
15	Trees - Eastern Redbud, 1.5" BB	IDOT 253	8	Each	
16	Trees - Flowering Crabapple "Lemoine", 1.5" BB	IDOT 253	6	Each	
17	Trees - Gray Dogwood, 1.5" BB	IDOT 253	12	Each	
18	Trees - Red Oak, 1.5" BB	IDOT 253	5	Each	
19	Perimeter Erosion Barrier-Silt Fence	280	600	Foot	Silt Filter Fence
20	Perimeter Erosion Barrier-Rolled Excelsior, 12" Diameter	280	2360	Foot	Rolled Excelsior - 12" Diameter
21	Stone Dumped Riprap A-2	IDOT 281	19475	Ton	
22	Stone Riprap A-3	IDOT 281	280	S.Y.	
23	Stone Riprap A-4	IDOT 281	214	S.Y.	
24	Filter Fabric	IDOT 282	672	S.Y.	
25	Special Excelsior Blanket	286	24967	S.Y.	
26	Aggregate surface Course, Type B	IDOT 402	302	Ton	
27	Dewatering Impoundment	614	1	Each	
28	Mobilization (Max. 6% of Bid)	671	1	L.S.	
29	Low Density (PE) Liner-30 Mil.	685	900	S.F.	

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

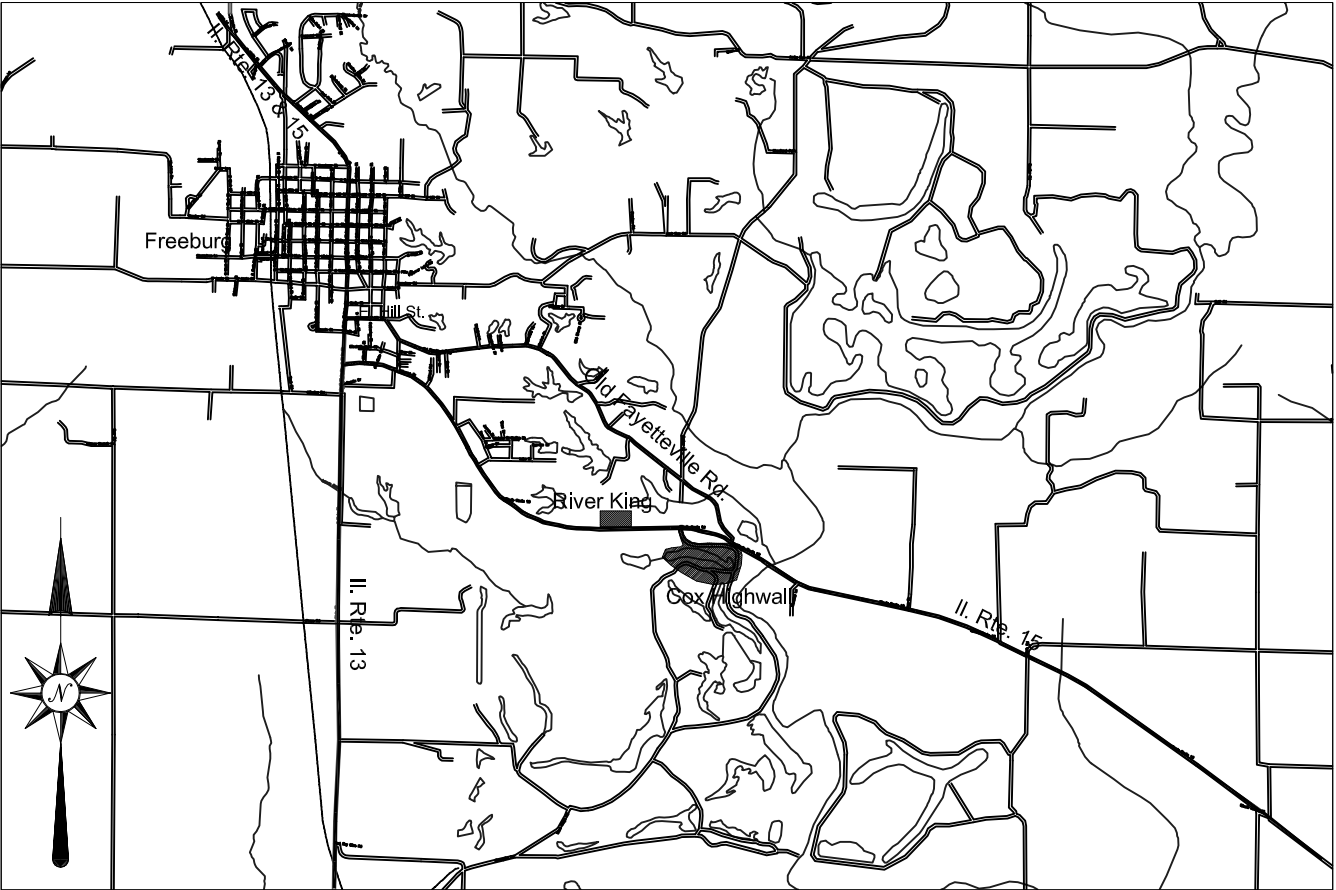
BURIAL/REMOVAL OF MATERIAL-Concrete and masonry debris designated for burial by the engineer shall be buried at least three feet below proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer approved offsite landfill in accordance with Sections 201 and 501 of the Special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

TREE REMOVAL-All organic waste, including trees, brush and shrubs, originating within the construction limits shall be chipped to a size not to exceed 2 inches in diameter (2 inches in any direction). Wood chips may be used as mulch around landscape plantings within the construction limits when approved by the Engineer. All chips not used for mulch shall be stockpiled for use by the property owners. The locations of the stockpiles shall be designated by the Engineer.

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.



Location Map

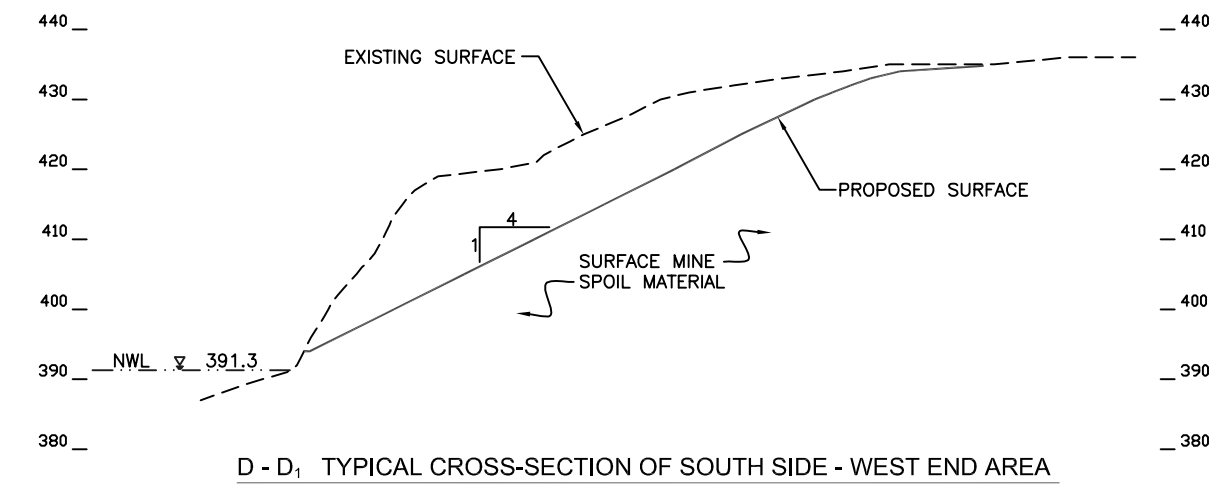
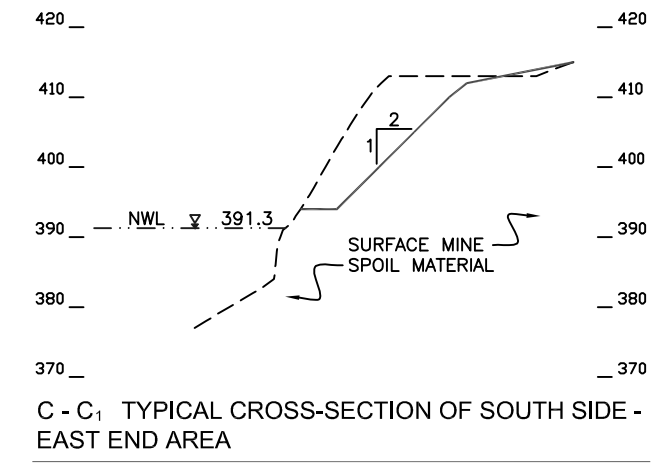
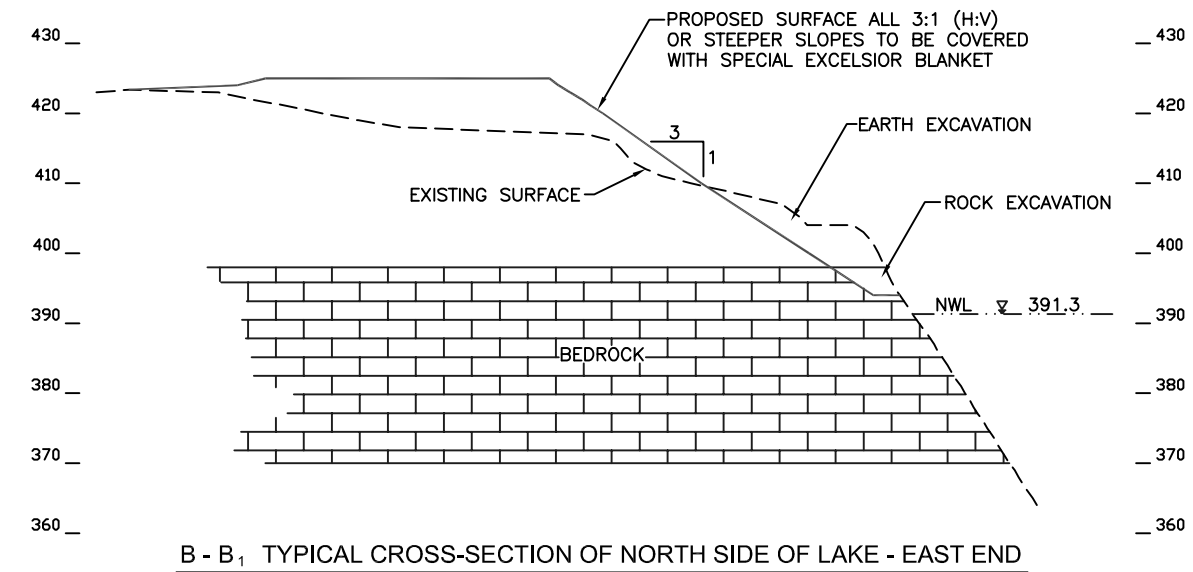
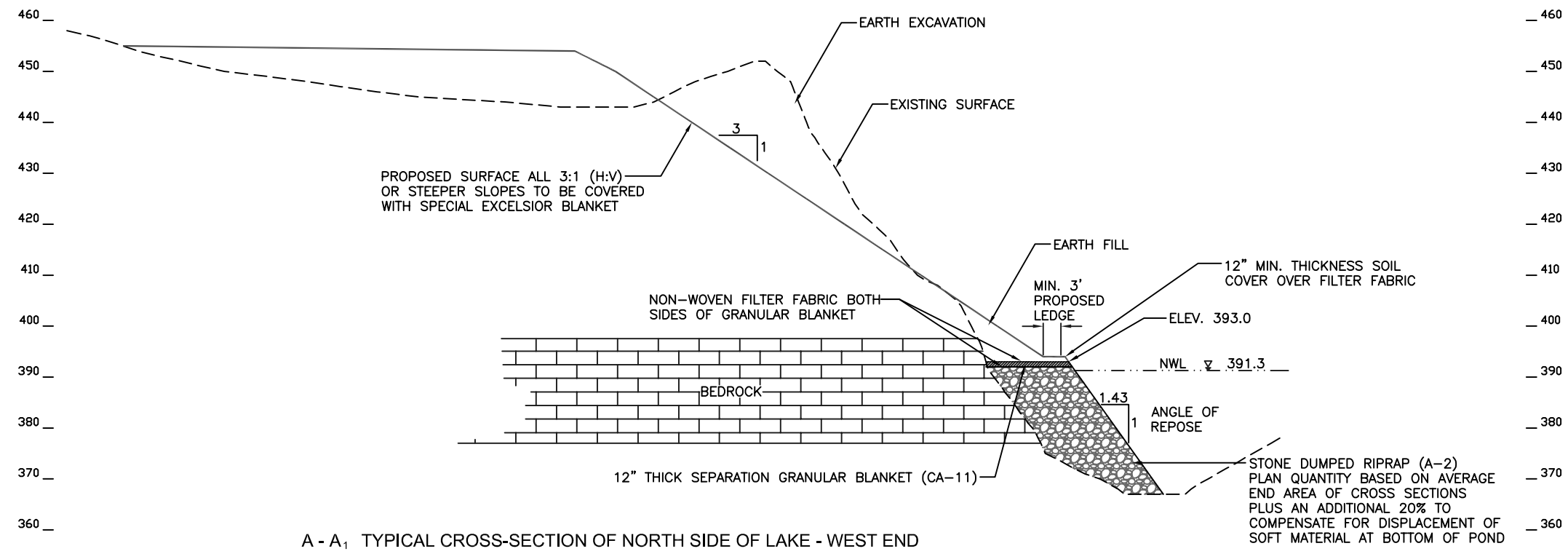
Schedule of Seeding, Fertilizer Nutrients, Mulch and Mowing			
ITEM (unit)	Aug. 15, 2012 thru Sept. 30, 2012	March 15, 2013 thru April 10, 2013	TOTAL QUANTITY
SEEDING (acres)	23 (Acres)		23 (Acres)
AGRICULTURAL GROUND LIMESTONE (tons)	115 (5 T/acre)		115 (2 T/acre)
NITROGEN FERTILIZER NUTRIENT (pounds)	2300 (100 Pounds/Acre)	2300 (100 Pounds/Acre)	4600 (Pounds)
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	1840 (80 Pounds/Acre)	1840 (80 Pounds/Acre)	3680 (Pounds)
POTASSIUM FERTILIZER NUTRIENT (pounds)	3450 (150 Pounds/Acre)	3450 (150 Pounds/Acre)	6900 (Pounds)
MULCH, METHOD 2 PROCEDURE 1 (acres)	17.8 (acres)		17.8 (acres)

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River King/Cox Highway
Reclamation Project
AML-GScE-1106
St. Clair County

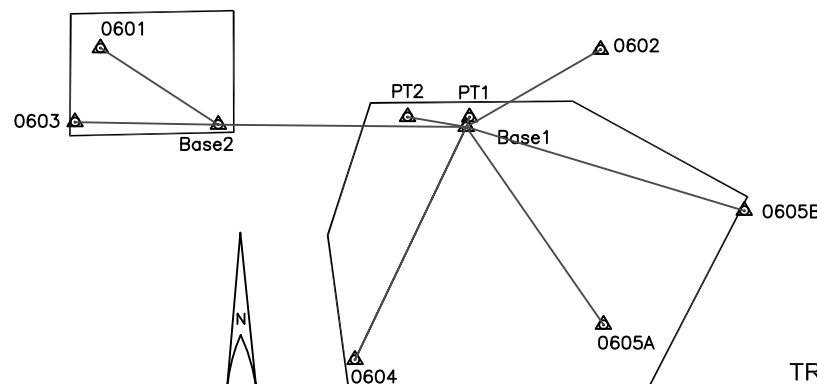
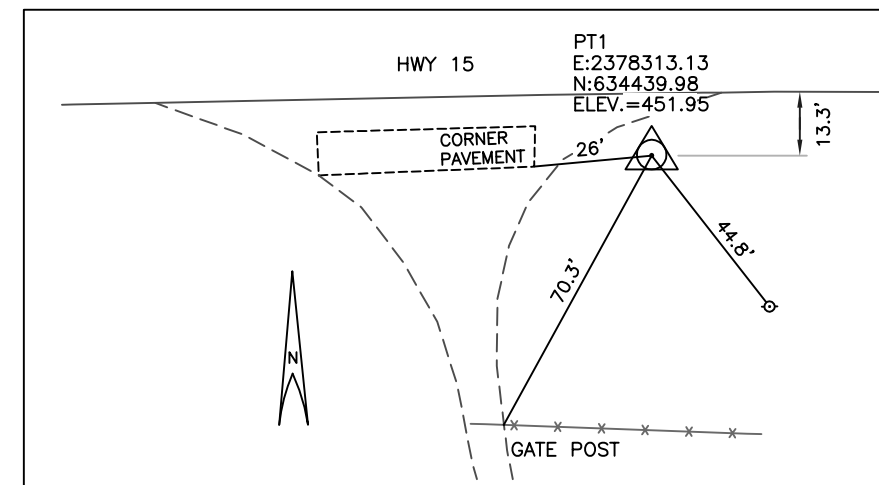
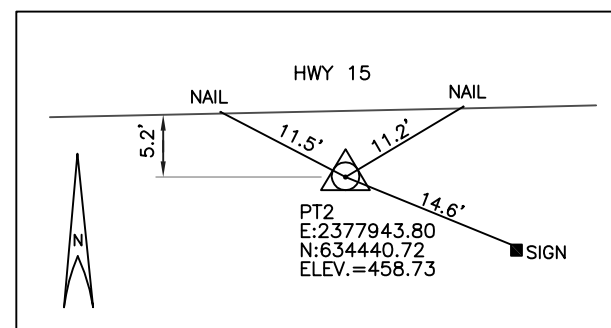
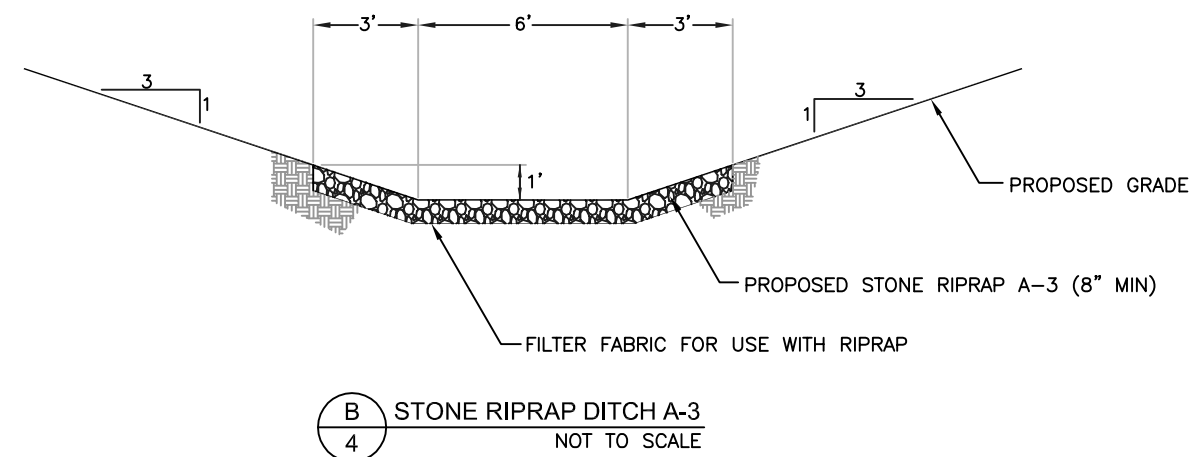
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Summary of Quantities/
General Notes/Location Map
Sheet
2 of 25



RECLAMATION PROJECT
of the
DEPARTMENT OF NATURAL RESOURCES
STATE OF ILLINOIS
PAT QUINN, GOVERNOR
Marc Miller, Director
Illinois Dept. of Natural Resources
In cooperation with the Office of Surface Mining
United States Department of the Interior

- A** CONSTRUCTION SIGN DETAIL
4 NOT TO SCALE, EXACT LOCATION TO BE SET BY ENGINEER



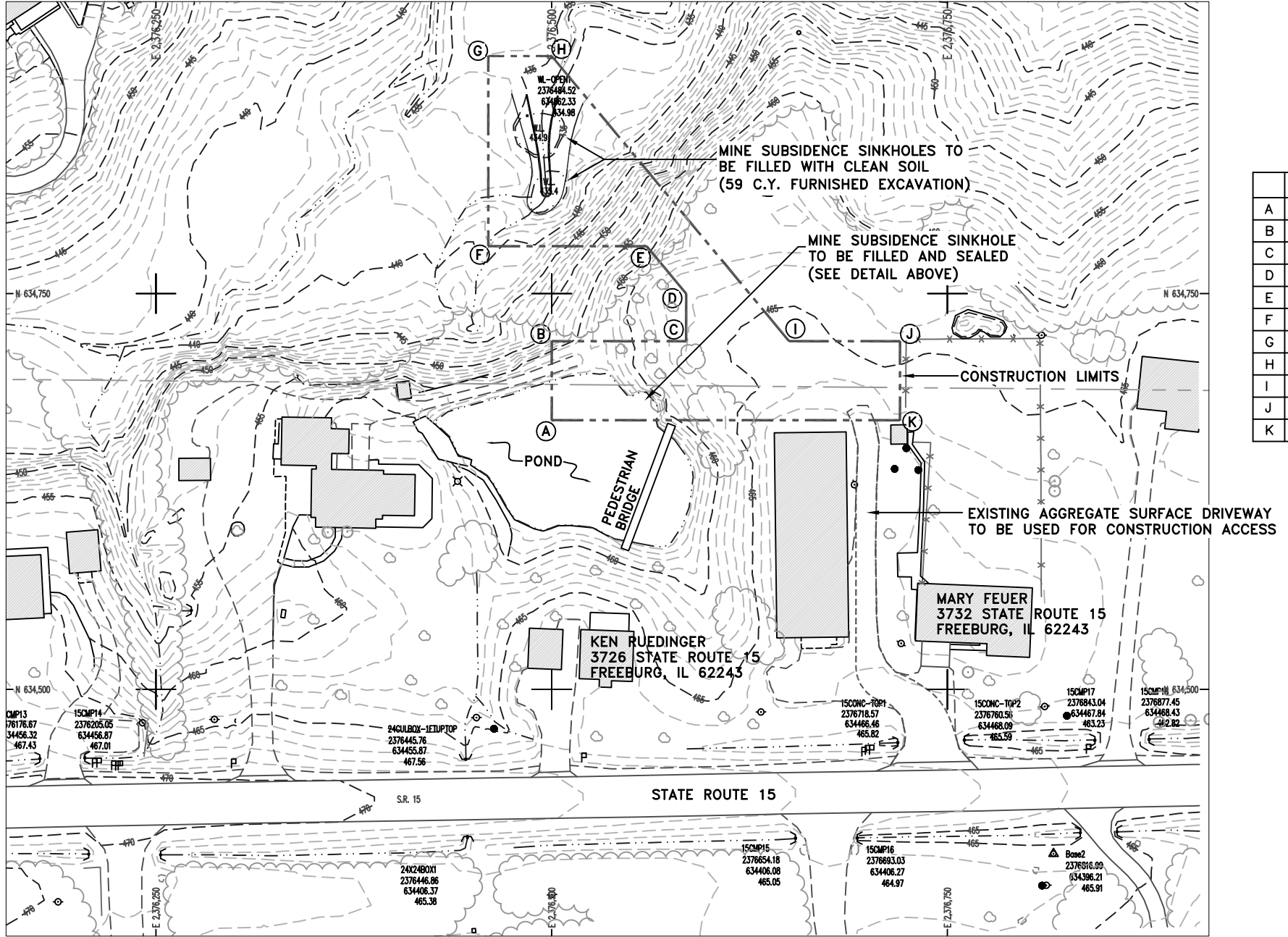
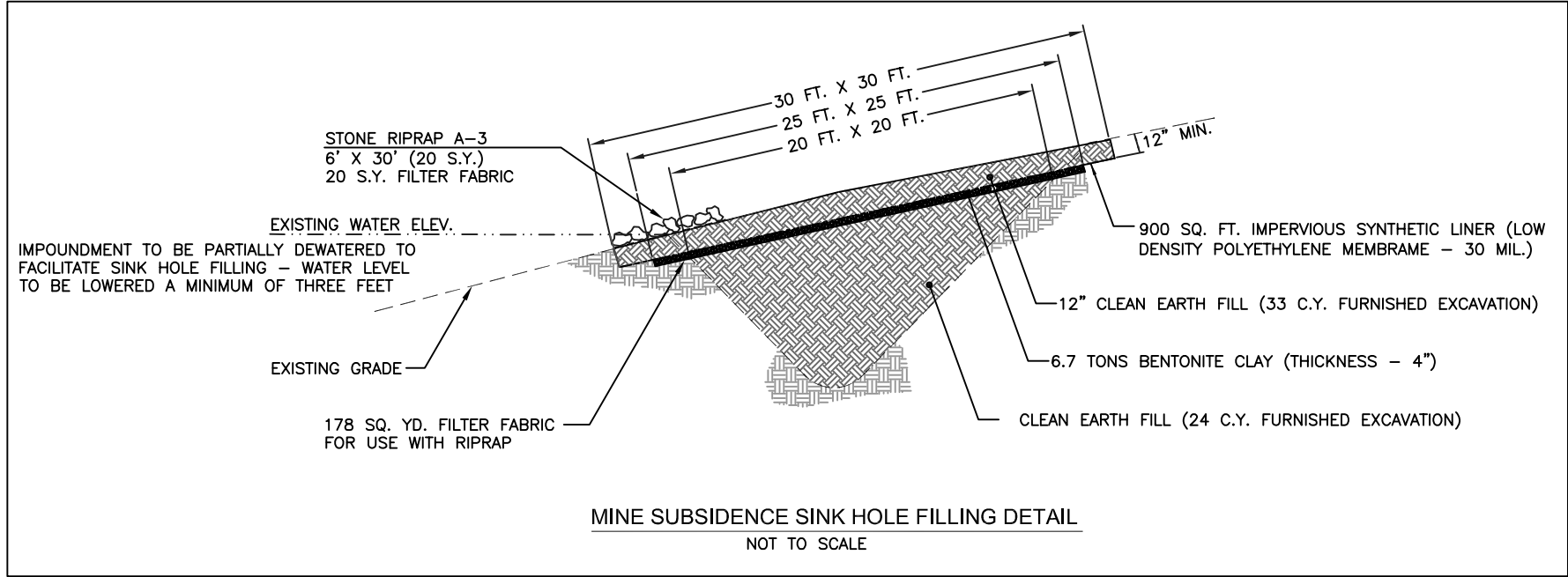
TRAVERSE LAYOUT DATA

State of Illinois
Department of Natural Resources

**Cox Highway/River King
Reclamation Project
AML-GScE-1106
St. Clair County**

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**Erosion Control and
Planting Plan**
Sheet
4 of 25



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EXISTING CONTOUR

PROPOSED CONTOUR

CONSTRUCTION LIMITS

EDGE OF ROAD

TREELINE

EDGE OF WATER

SURVEY CONTROL POINT

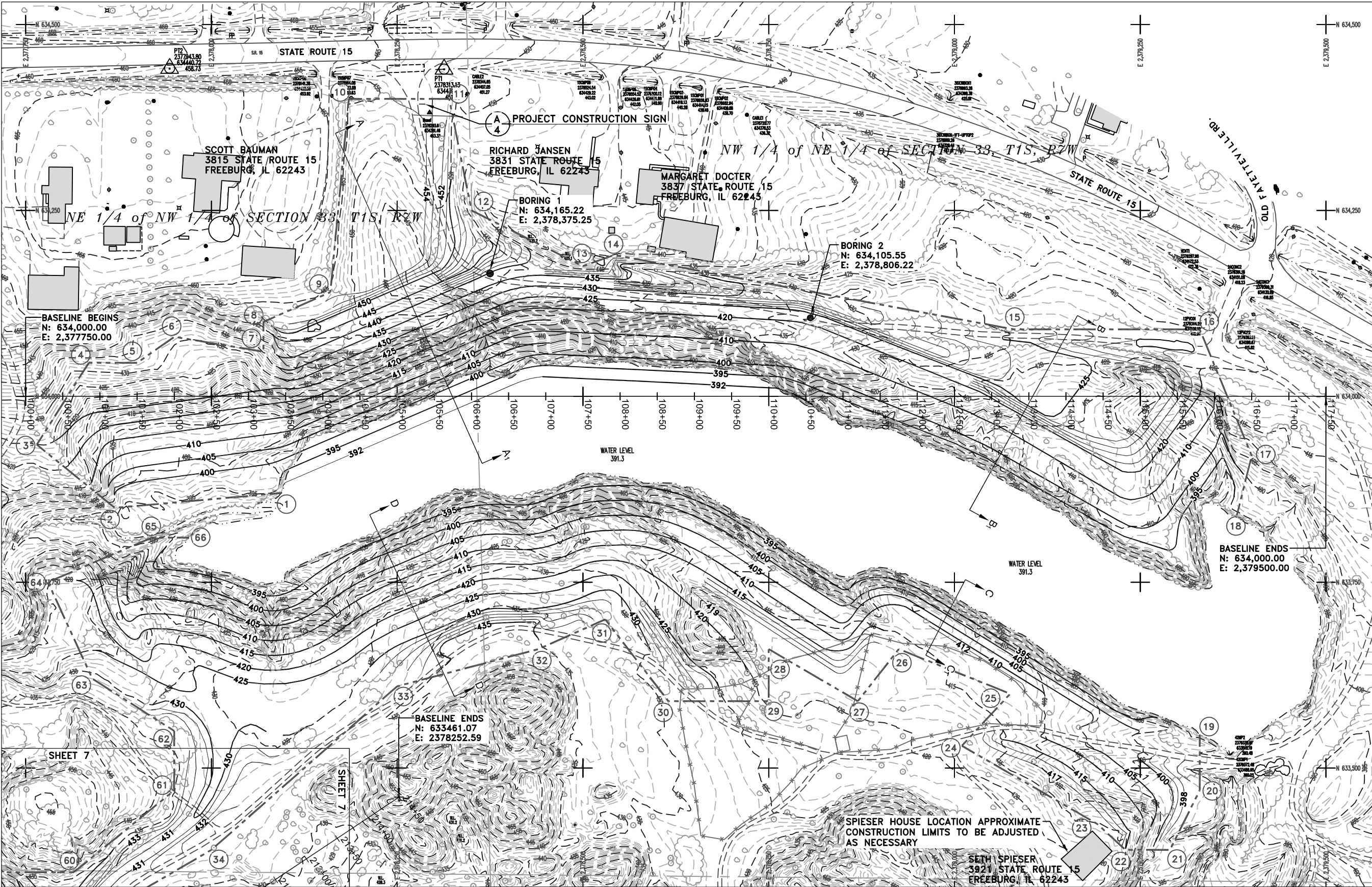
Legend

Cox Highwall/River King

N

0 40 80

SCALE IN FEET



SHEET 6

SHEET 7

Sheet Layout

— 400 —	EXISTING CONTOUR	— — — —	TREELINE
— 400 —	PROPOSED CONTOUR	— — — —	EDGE OF WATER
— — — —	CONSTRUCTION LIMITS	△	SURVEY CONTROL POINT
— — — —	EDGE OF ROAD		

Legend

Cox Highwall

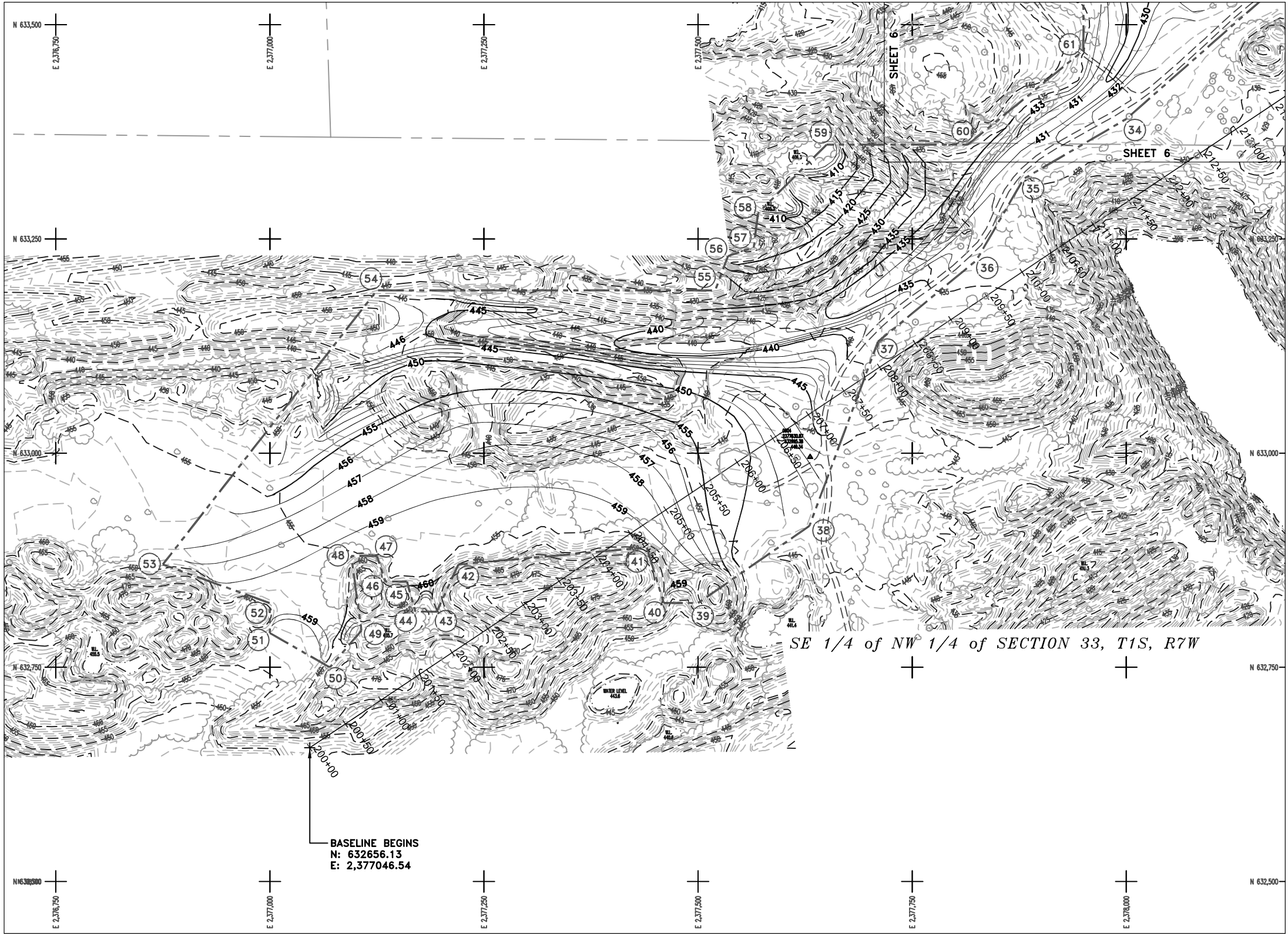
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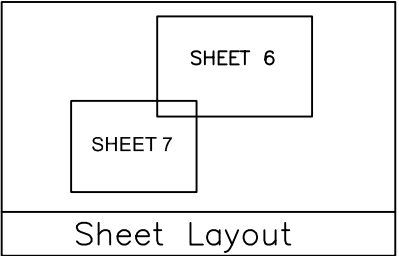
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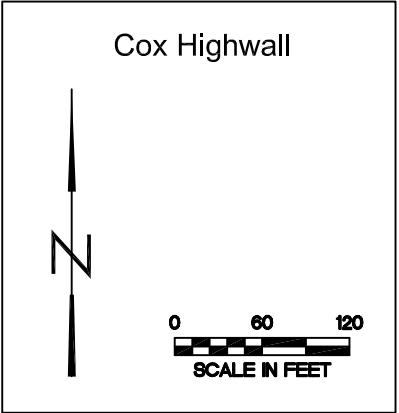
SCALE IN FEET



CONSTRUCTION LIMITS		
	NORTHING	EASTING
1	633,870	2,378,095
2	633,850	2,377,870
3	633,935	2,377,765
4	634,045	2,377,835
5	634,045	2,377,900
6	634,080	2,377,950
7	634,060	2,378,070
8	634,100	2,378,070
9	634,140	2,378,160
10	634,400	2,378,185
11	634,400	2,378,320
12	634,250	2,378,350
13	634,175	2,378,500
14	634,190	2,378,542
15	634,090	2,379,080
16	634,090	2,379,330
17	633,920	2,379,400
18	633,840	2,379,380
19	633,545	2,379,330
20	633,470	2,379,330
21	633,390	2,379,290
22	633,390	2,379,230
23	633,425	2,379,192
24	633,530	2,379,010
25	633,600	2,379,075
26	633,660	2,378,925
27	633,590	2,378,870
28	633,660	2,378,750
29	633,590	2,378,750
30	633,590	2,378,615
31	633,700	2,378,530
32	633,660	2,378,440
33	633,610	2,378,250
34	633,390	2,378,000
35	633,320	2,377,880
36	633,225	2,377,825
37	633,130	2,377,710
38	632,915	2,377,630
39	632,825	2,377,500
40	632,825	2,377,460
41	632,890	2,377,440
42	632,870	2,377,220
43	632,815	2,377,195
44	632,815	2,377,170
45	632,850	2,377,160
46	632,850	2,377,135
47	632,880	2,377,125
48	632,880	2,377,095
49	632,793	2,377,107
50	632,750	2,377,070
51	632,790	2,377,000
52	632,825	2,377,000
53	632,870	2,376,875
54	633,190	2,377,125
55	633,190	2,377,520
56	633,230	2,377,535
57	633,240	2,377,565
58	633,280	2,377,570
59	633,360	2,377,650
60	633,360	2,377,815
61	633,470	2,377,950
62	633,550	2,377,950
63	633,620	2,377,840
64	633,750	2,377,780
65	633,810	2,377,920
66	633,810	2,377,970



— 400 —	EXISTING CONTOUR
— 400 —	PROPOSED CONTOUR
— - - —	CONSTRUCTION LIMITS
— — — —	EDGE OF ROAD
~~~~~	TREELINE
— · · · —	EDGE OF WATER
Δ	SURVEY CONTROL POINT



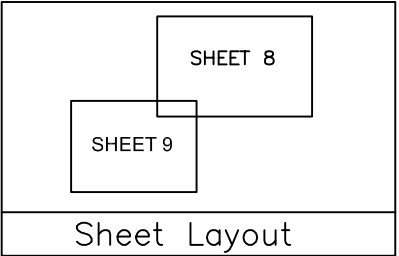
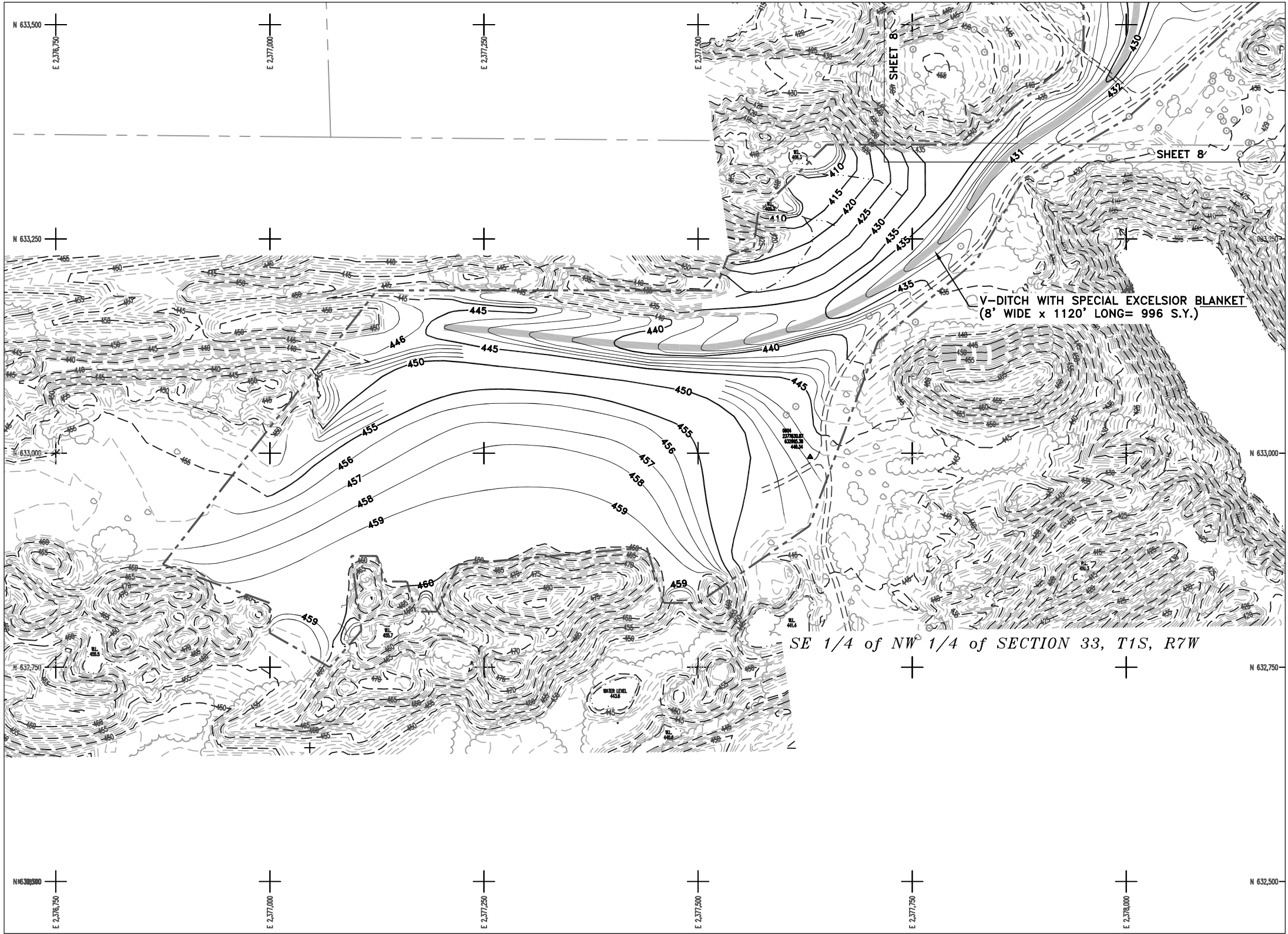
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Department of Natural Resources

Cox Highwall/River King  
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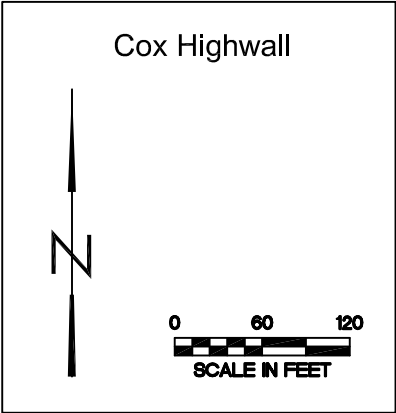
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Date: 2/8/2012

Existing and Proposed  
Conditions  
Sheet  
7 of 25

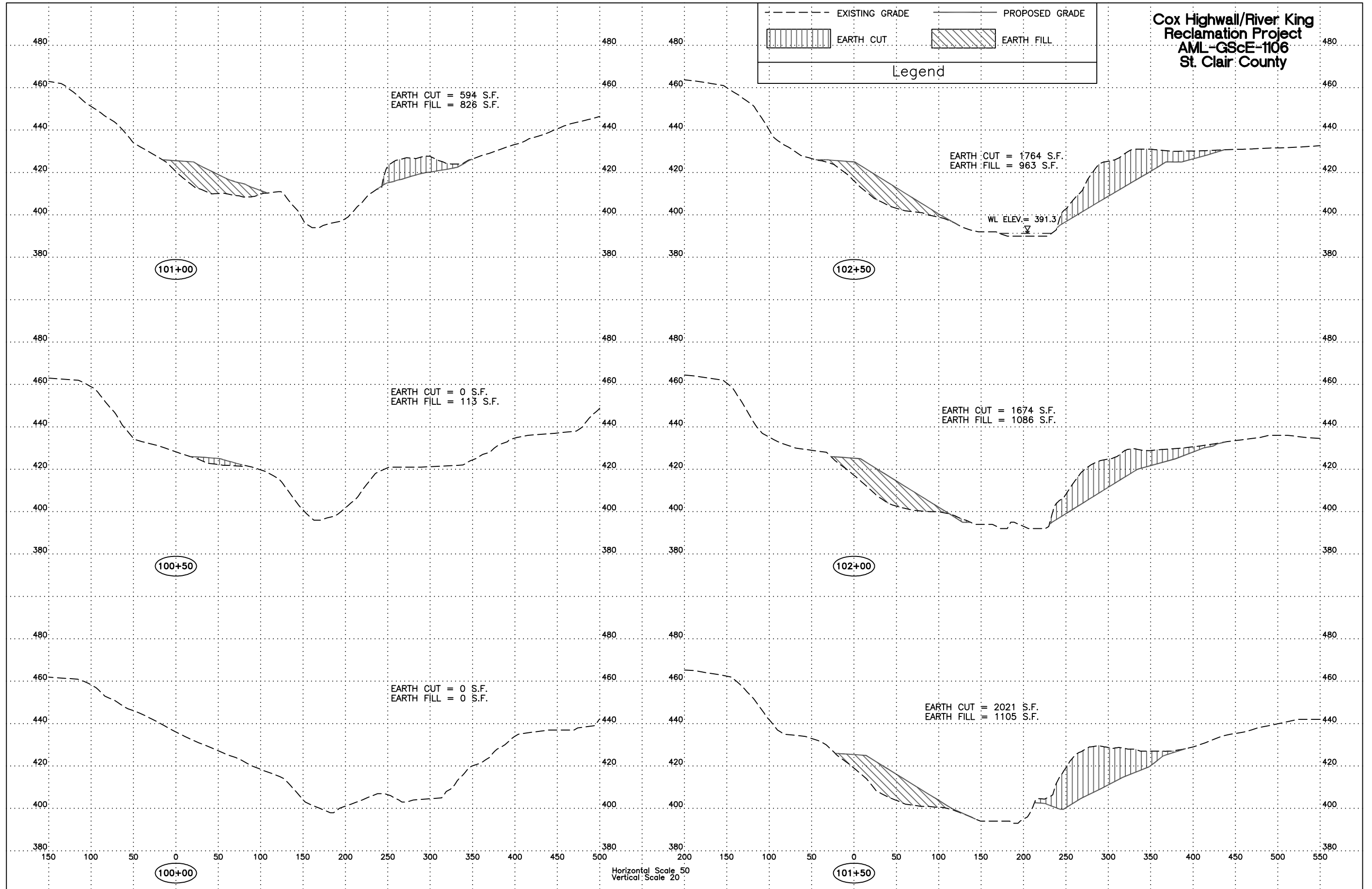
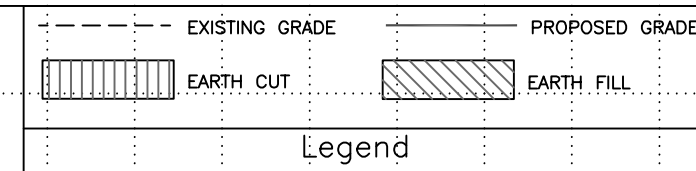




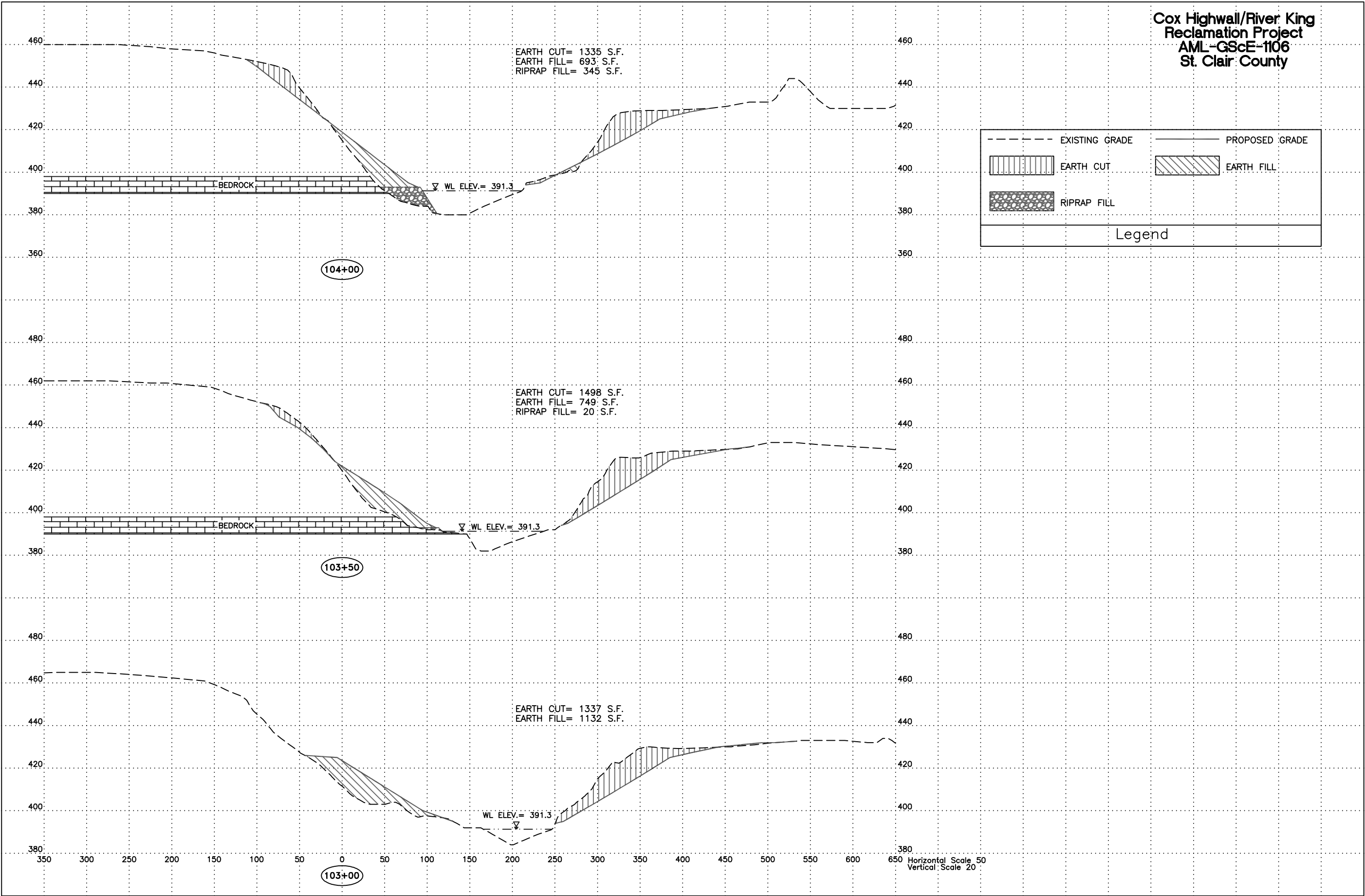
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  - . . . EDGE OF WATER
  - Δ SURVEY CONTROL POINT
  - - - - - LIMITS OF SPECIAL EXCELSIOR BLANKET



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AML-GScE-1106  
St. Clair County**



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EXISTING GRADE

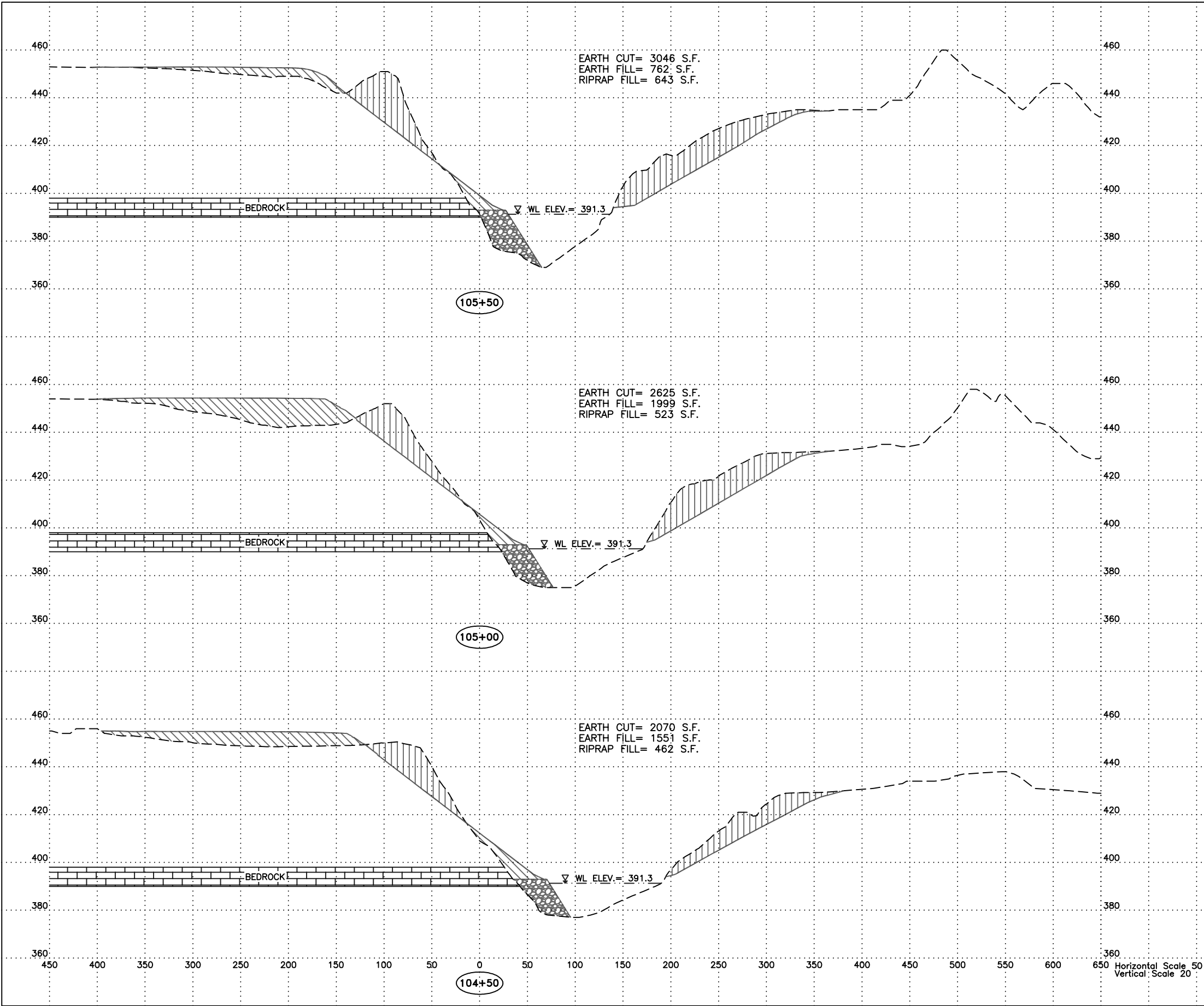
PROPOSED GRADE

EARTH CUT

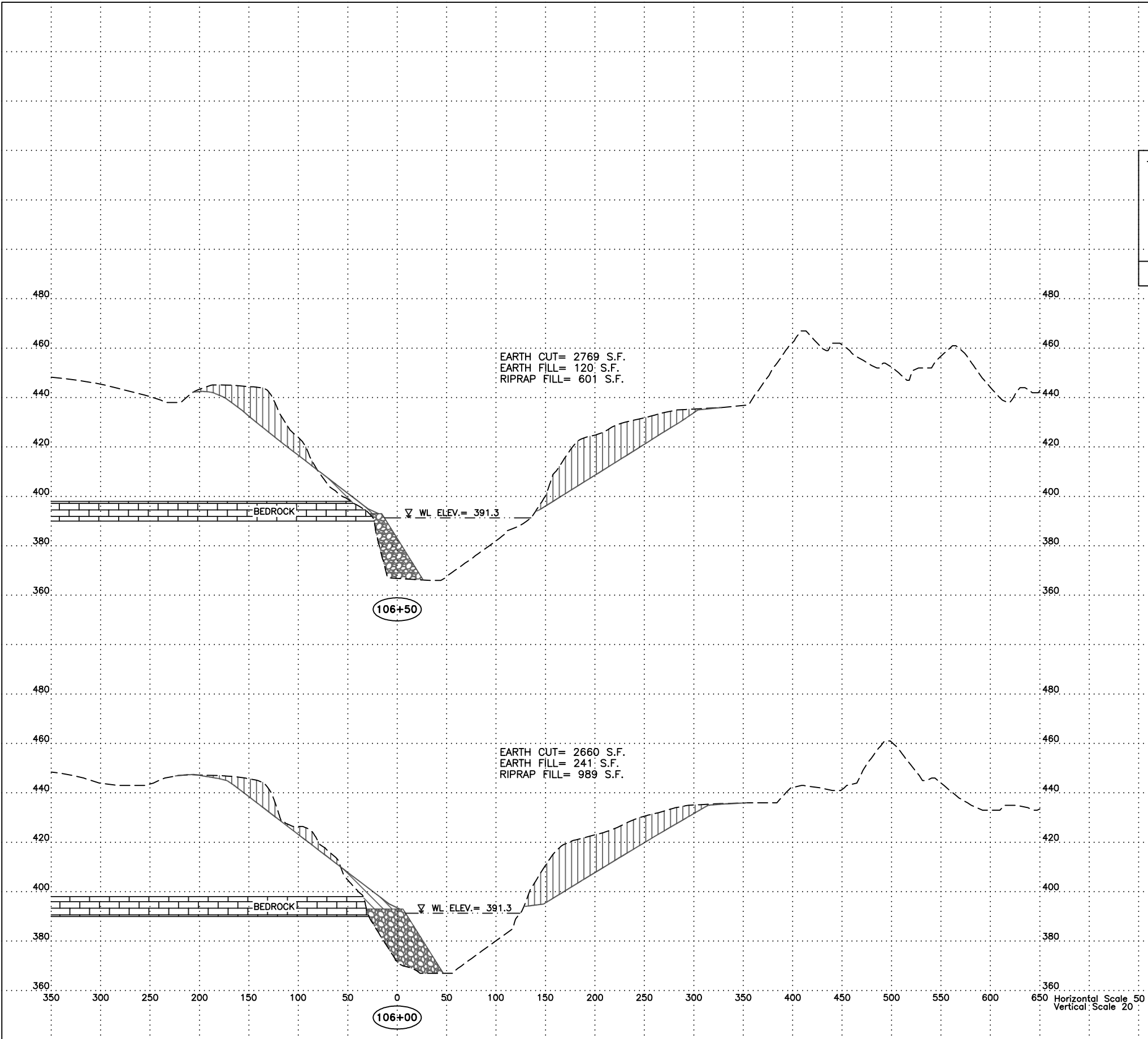
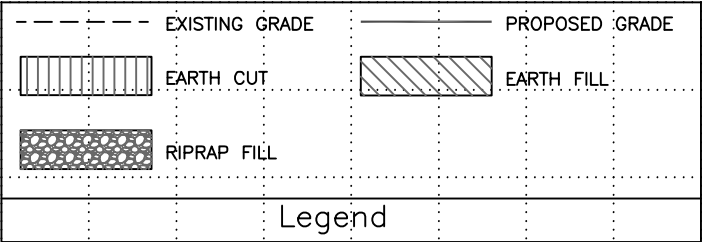
EARTH FILL

RIPRAP FILL

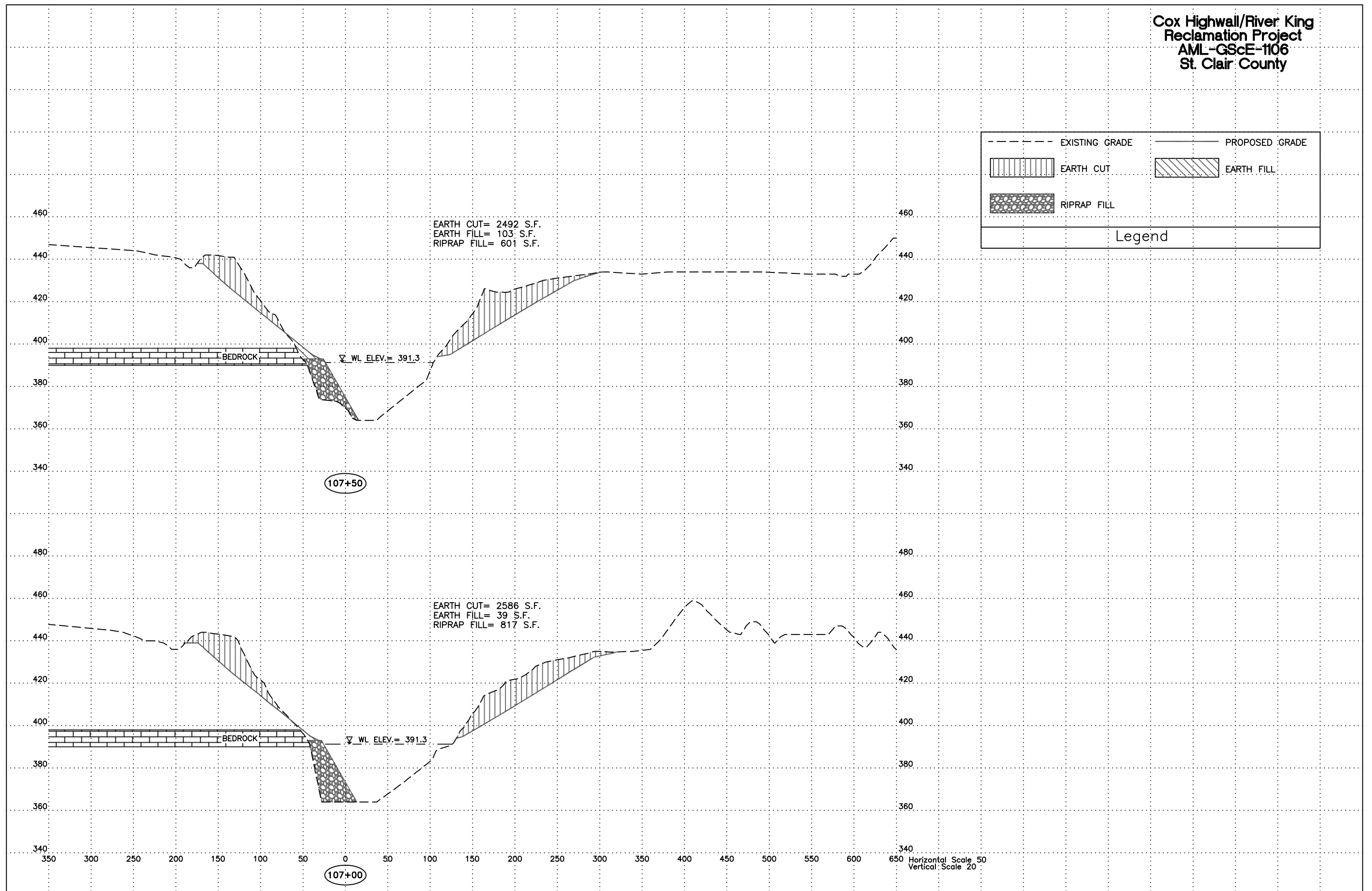
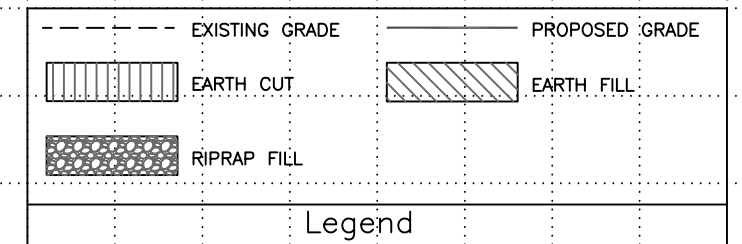
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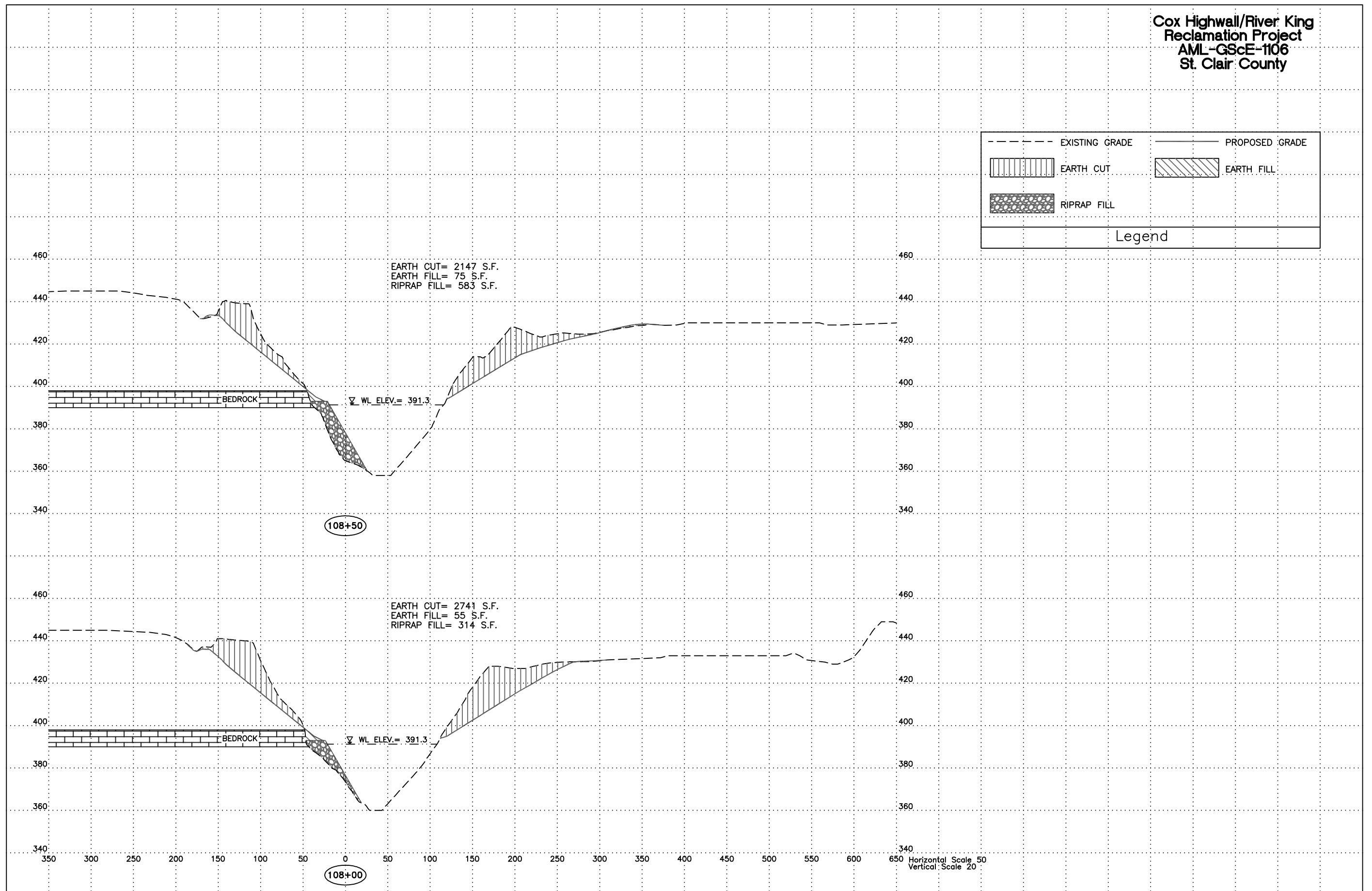
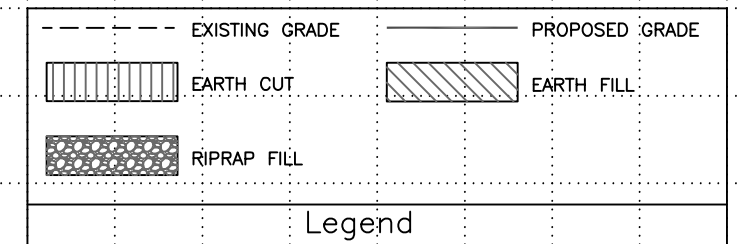


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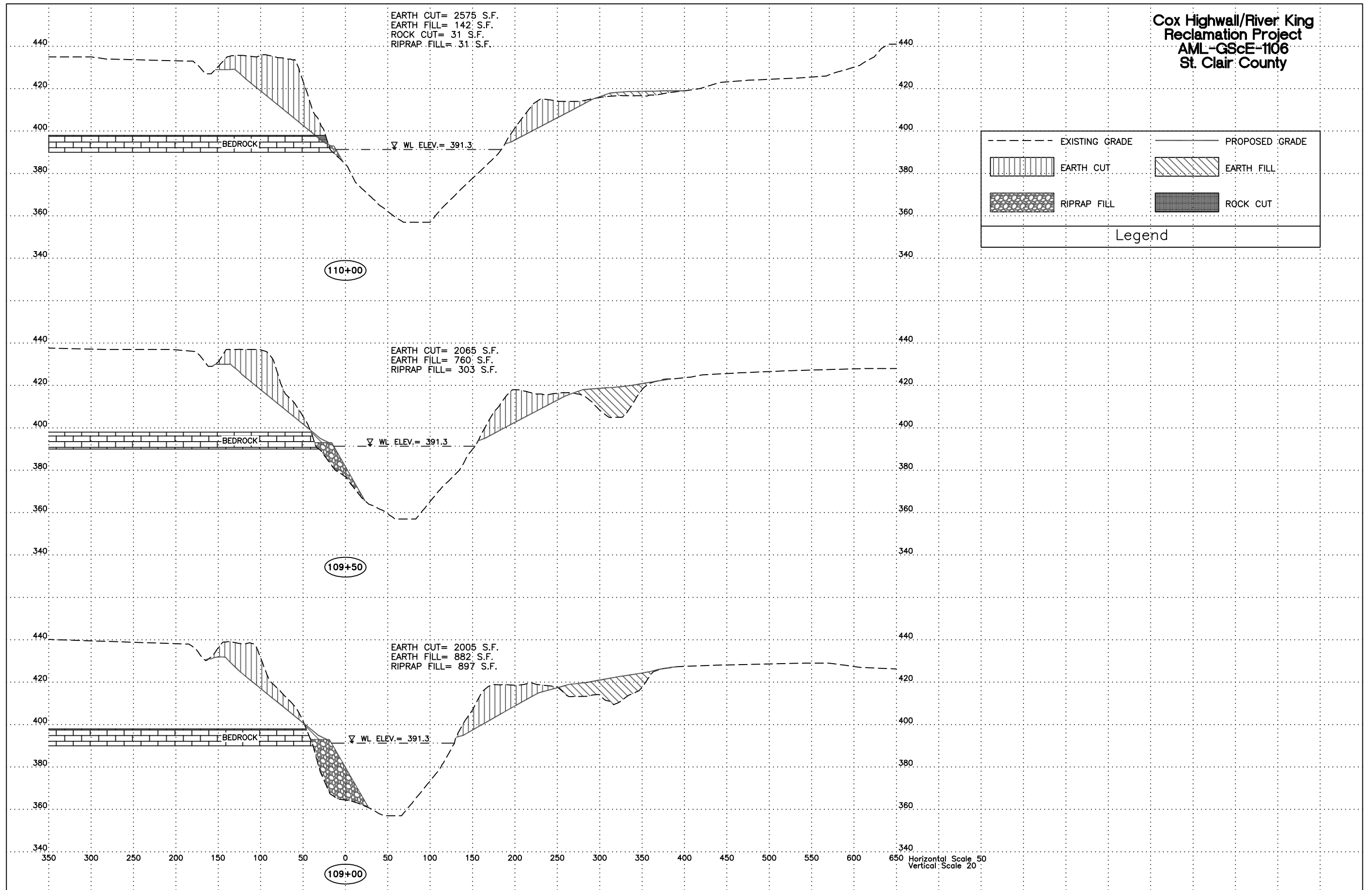


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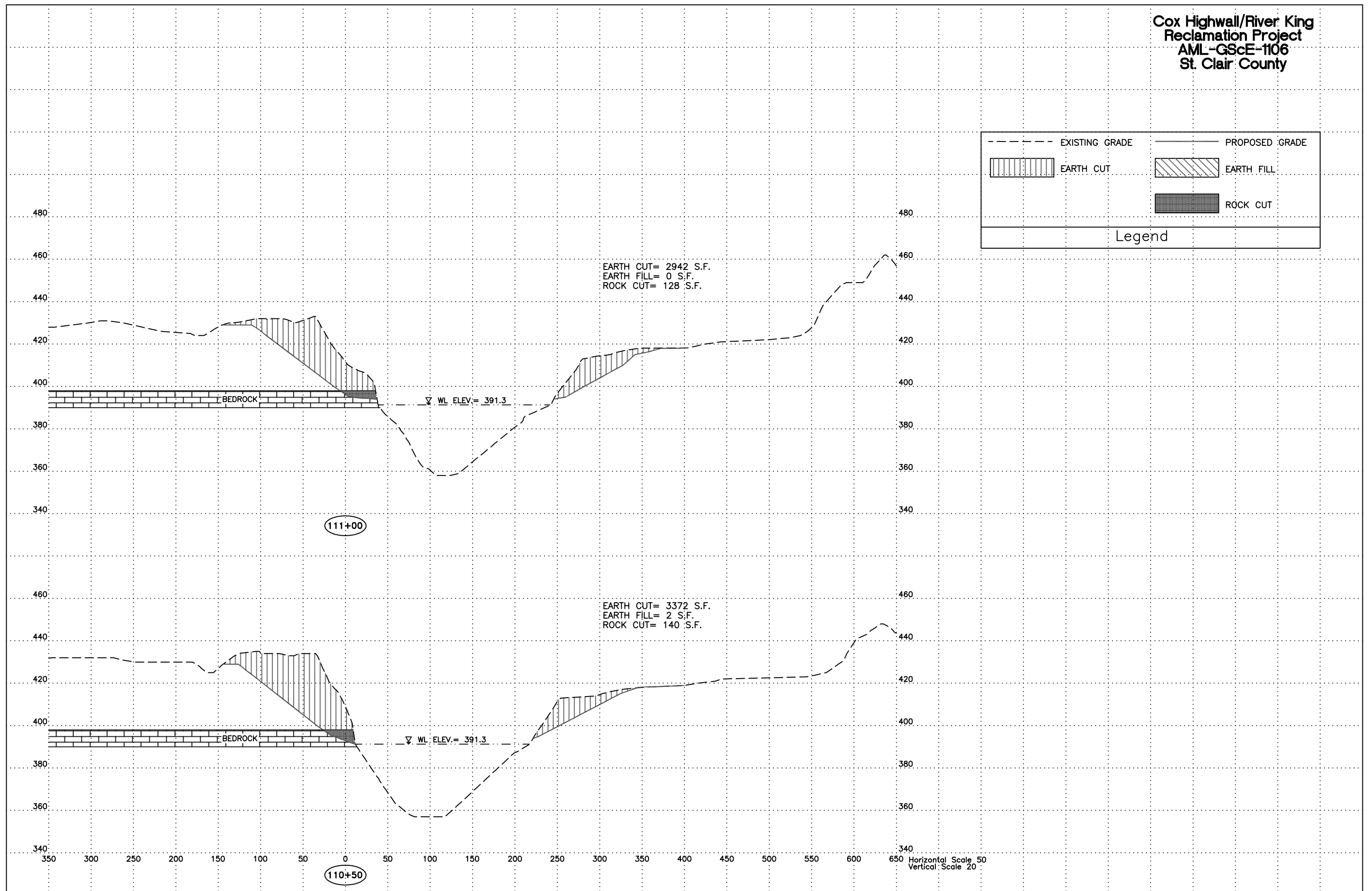
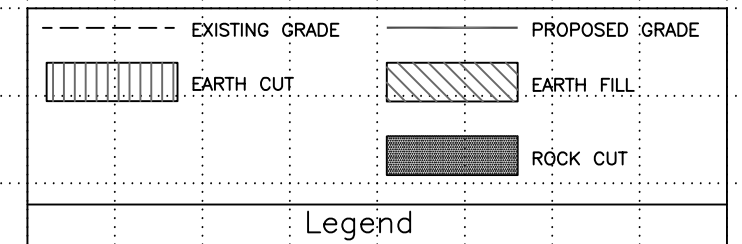




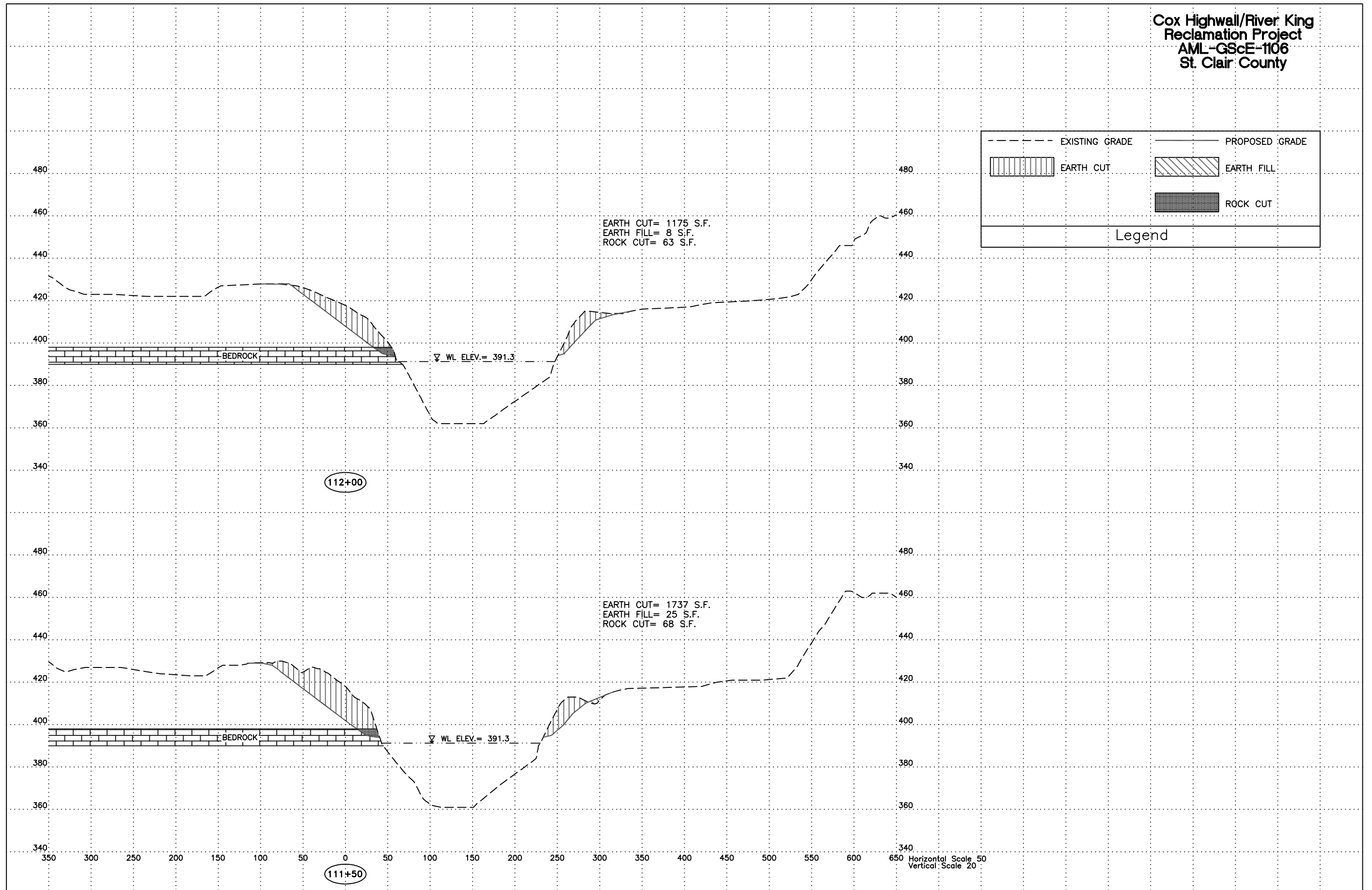
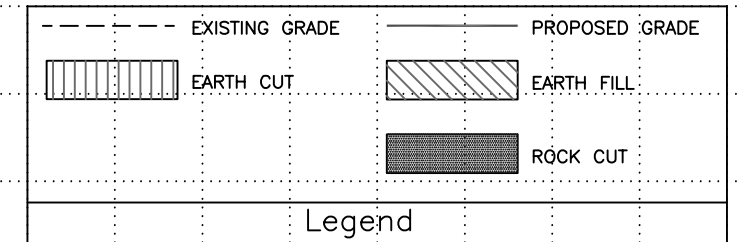
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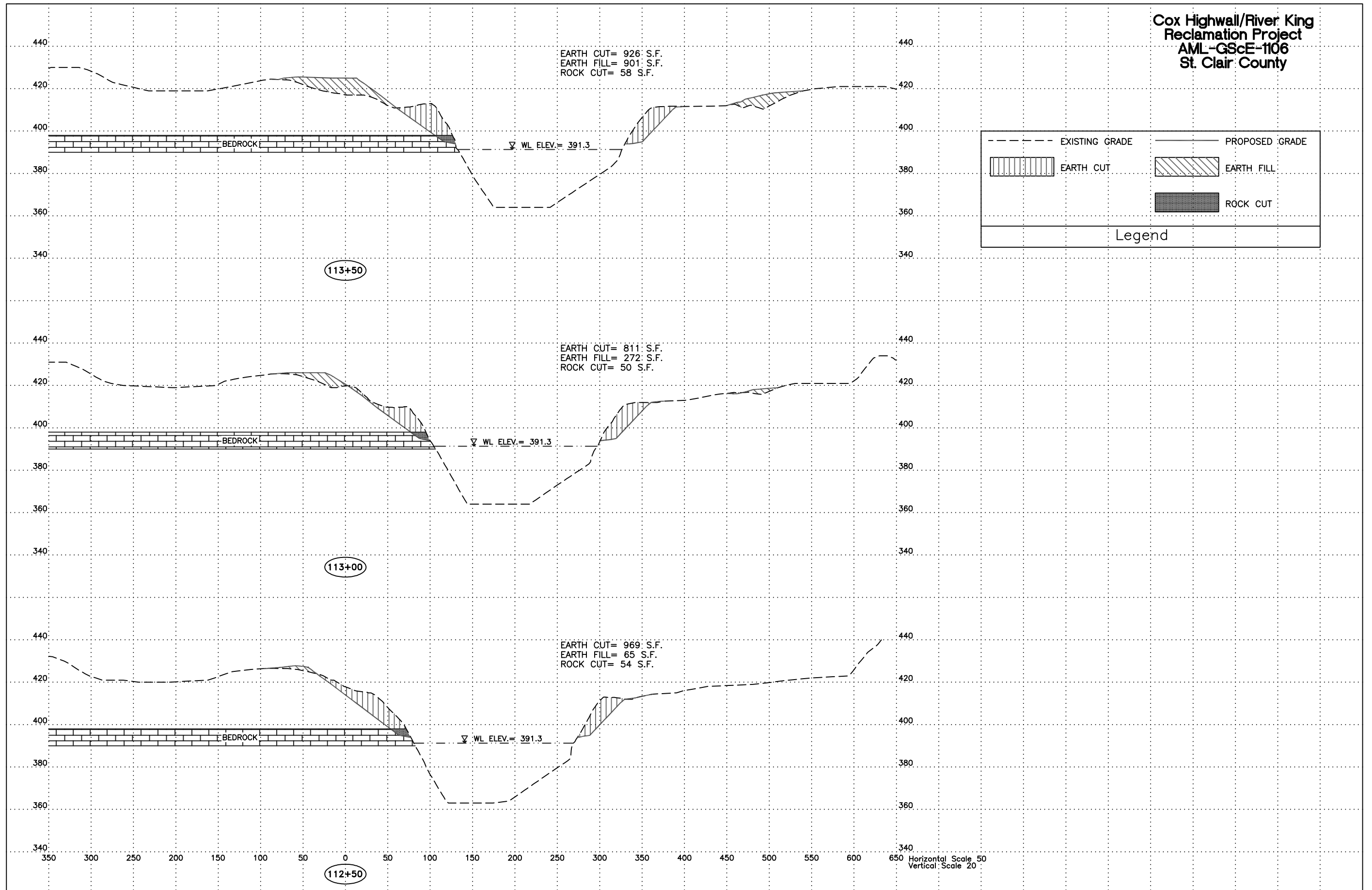
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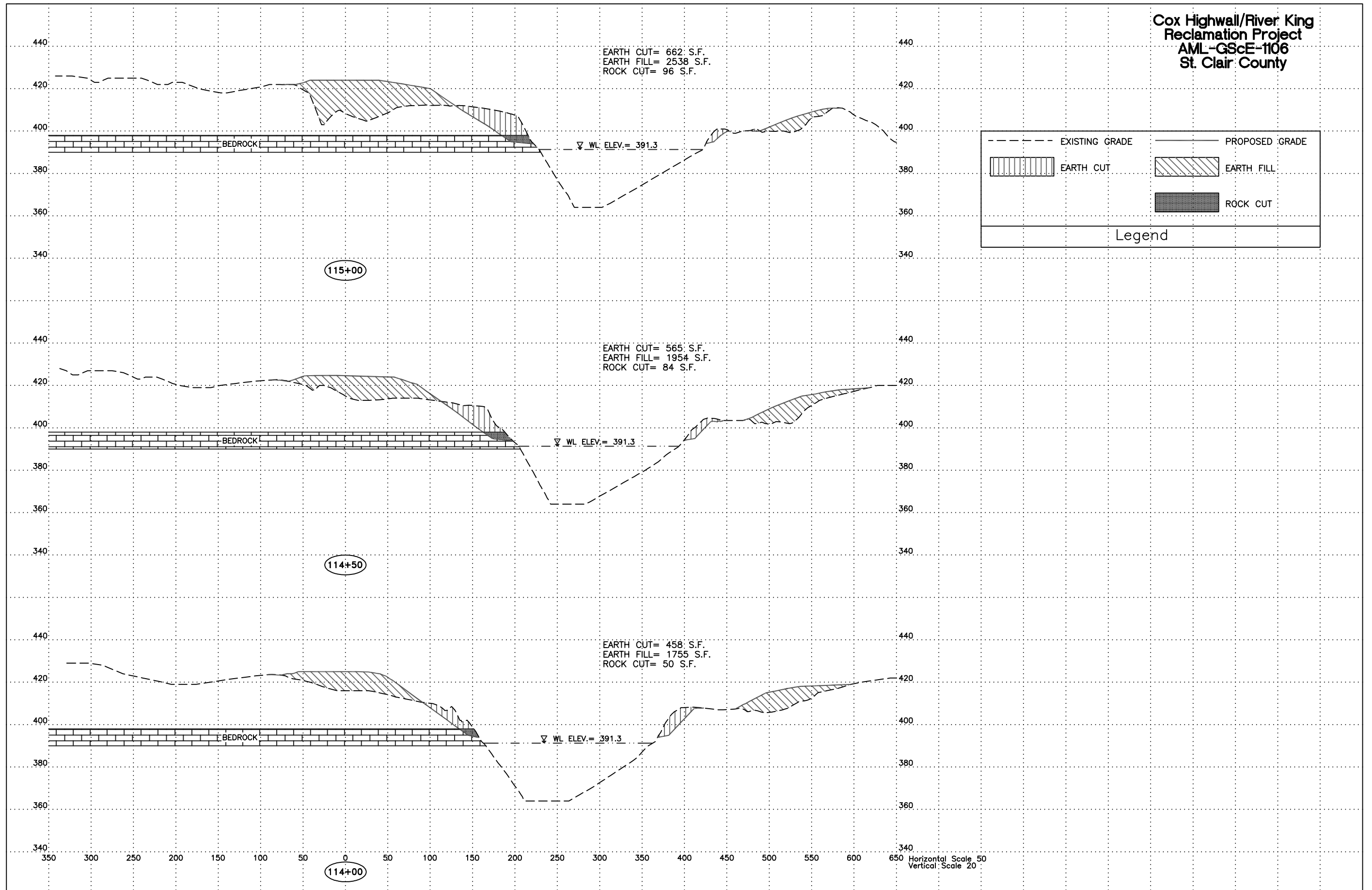
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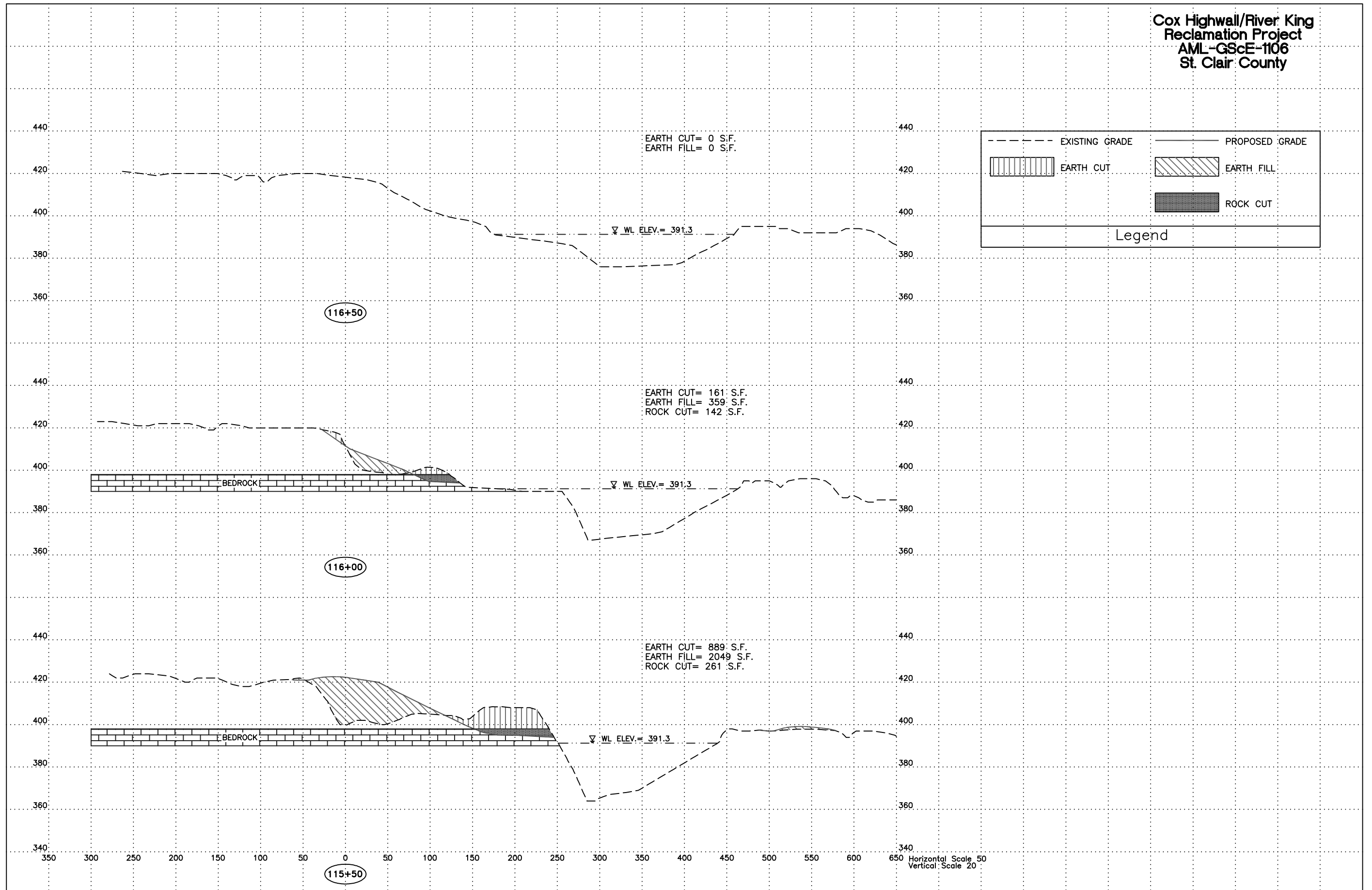


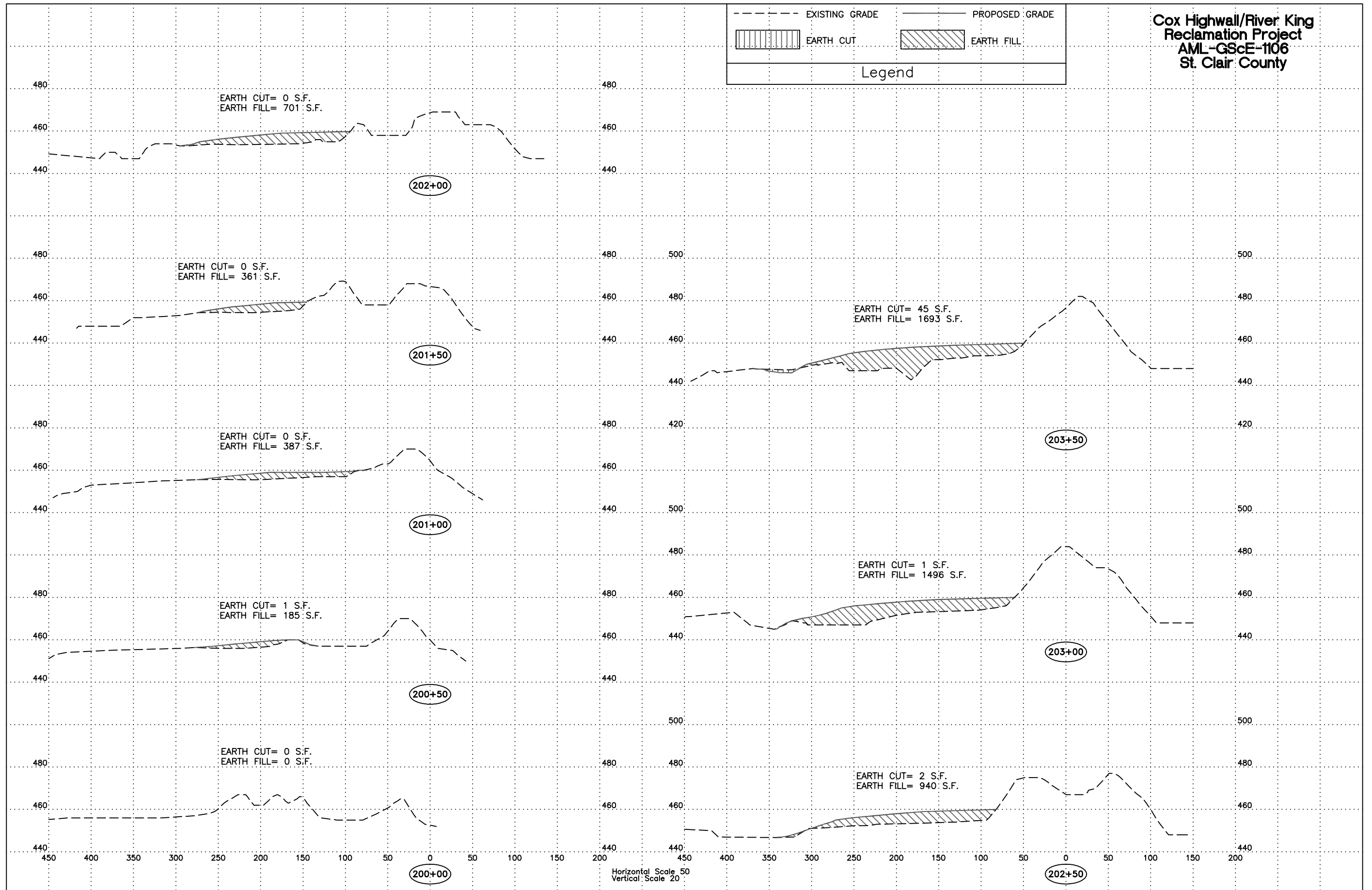
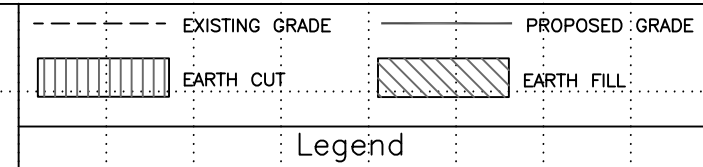
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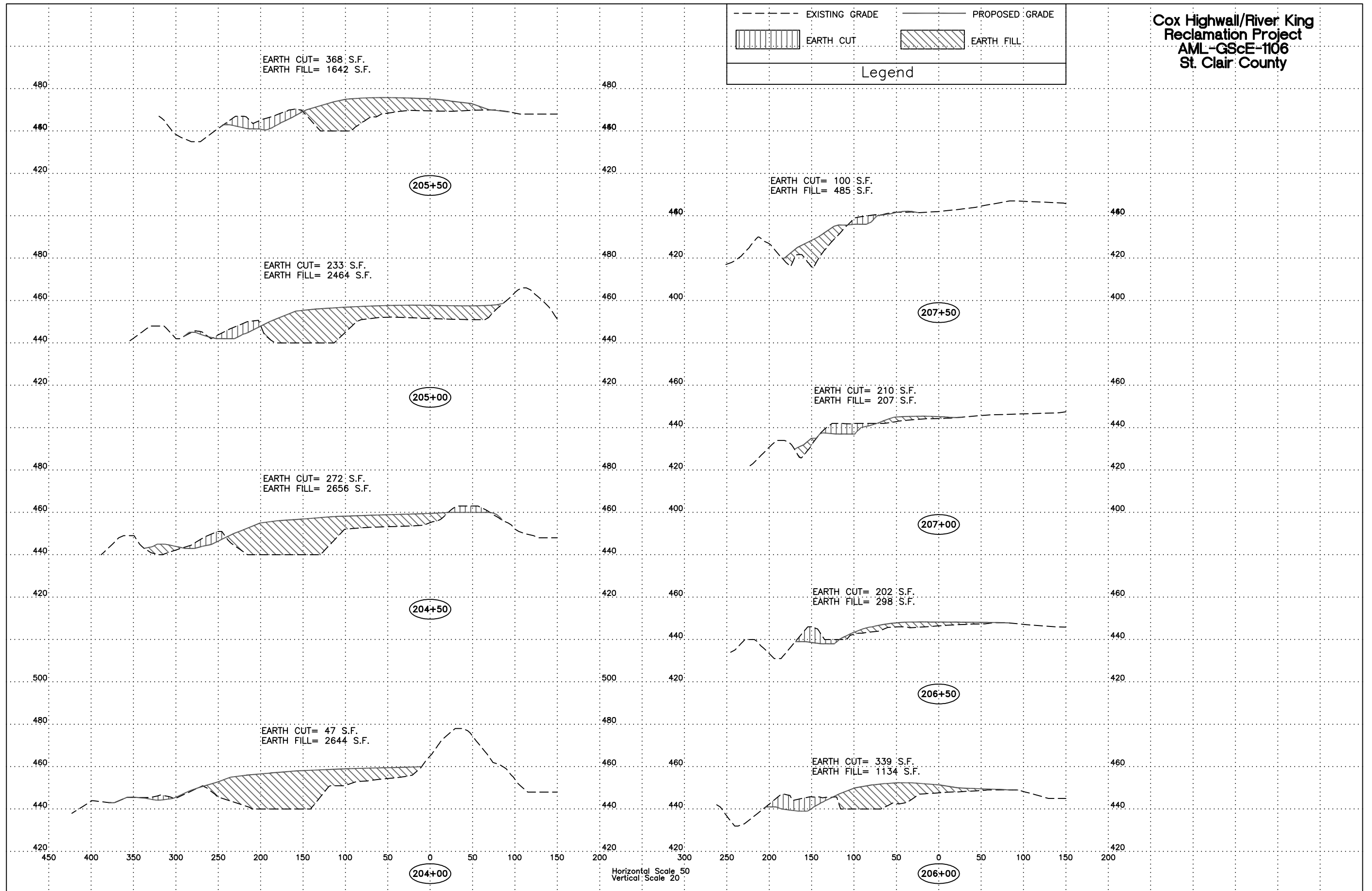
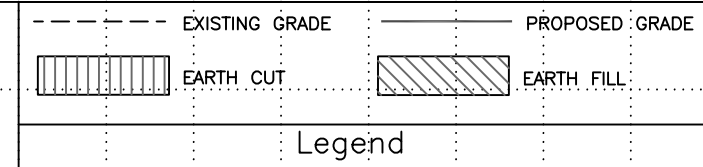


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