

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

River King Levee Lake
Reclamation Project
AML-GScE-1705
St. Clair County
5LR

SCHEDULE OF DRAWINGS:

1. Cover Sheet
2. Summary of Quantities/General Notes/Location Map
3. Survey Information
4. Typical Section
- 5.-8. Existing and Proposed Conditions
- 9.-13. Cross sections
14. Details - Goose Lake Outlet Structure

Contract No. M1705

Pre-Bid Meeting:

A pre-bid meeting for this project is scheduled for Friday,
September 15, 2017 at 10:00 A.M. at the Peabody River King
Fish and Wildlife Area Headquarters.

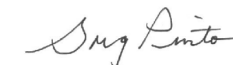
Prepared By IDNR Staff

Approved for Bidding:



Thomas A. Benner, Director
Office of Mines and Minerals

Approved By:

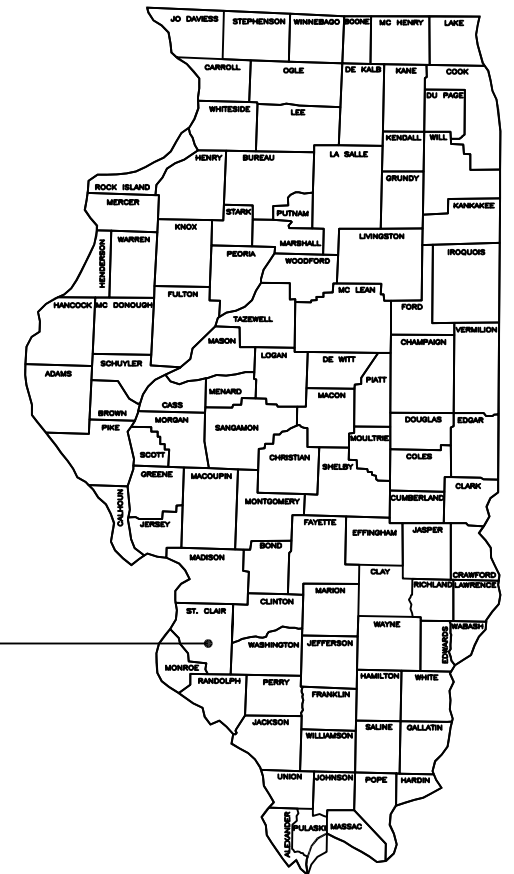


Greg Pinto, Acting Manager
AMLR Division

Approved By:



Vinodchandra V. Patel
IL Licensed Professional Engineer
No. 062.046043



River King Levee Lake
St. Clair County

Certified Copy



Summary of Quantities

Item No.	#	Item	Section	Quantity	Unit	Rates/Remarks
NRM20110	1	Special Clearing	201	1	L SUM	
NRM20210	2	Earth Excavation	202	111,782	CU YD	Compaction per Sec. 205
NRM21710	3	Bentonite-Aggregate Composite Backfill	217	8	TON	
25000305	4	Seeding, Class 3A	IDOT 250	6.9	ACRE	
25000310	5	Seeding, Class 4	IDOT 250	12.6	ACRE	
25000400	6	Nitrogen Fertilizer Nutrient	IDOT 250	4,680	POUND	120 Lbs./Acre/Application
25000500	7	Phosphorous Fertilizer Nutrient	IDOT 250	3,900	POUND	100 Lbs./Acre/Application
25000600	8	Potassium Fertilizer Nutrient	IDOT 250	13,650	POUND	350 Lbs./Acre/Application
25000700	9	Agricultural Ground Limestone	IDOT 250	195	TON	10 Tons/Acre
25100115	10	Mulch, Method 2	IDOT 251	12.6	ACRE	2 Tons/Acre, Procedure 1
NRM28040	11	Perimeter Erosion Barrier	280	5,789	FOOT	2,868 feet of Rolled Excelsior 2,921 feet of Silt Fence
28100107	12	Stone Riprap, Class A4	IDOT 281	5,950	SQ YD	
28200200	13	Filter Fabric	IDOT 282	5,950	SQ YD	
NRM28610	14	Special Excelsior Blanket	286	34,201	SQ YD	
54390230	15	Insertion Culvert Liner 36"	543	102	FOOT	
NRM60830	16	Flap Gate 30"	608	1	EACH	
NRM67110	17	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.

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.

CONSTRUCTION NOTES

TREE REMOVAL-Trees removed shall be disposed of onsite per Section 201 of the Special Provisions. Tree removal must be complete by March 14, 2018.

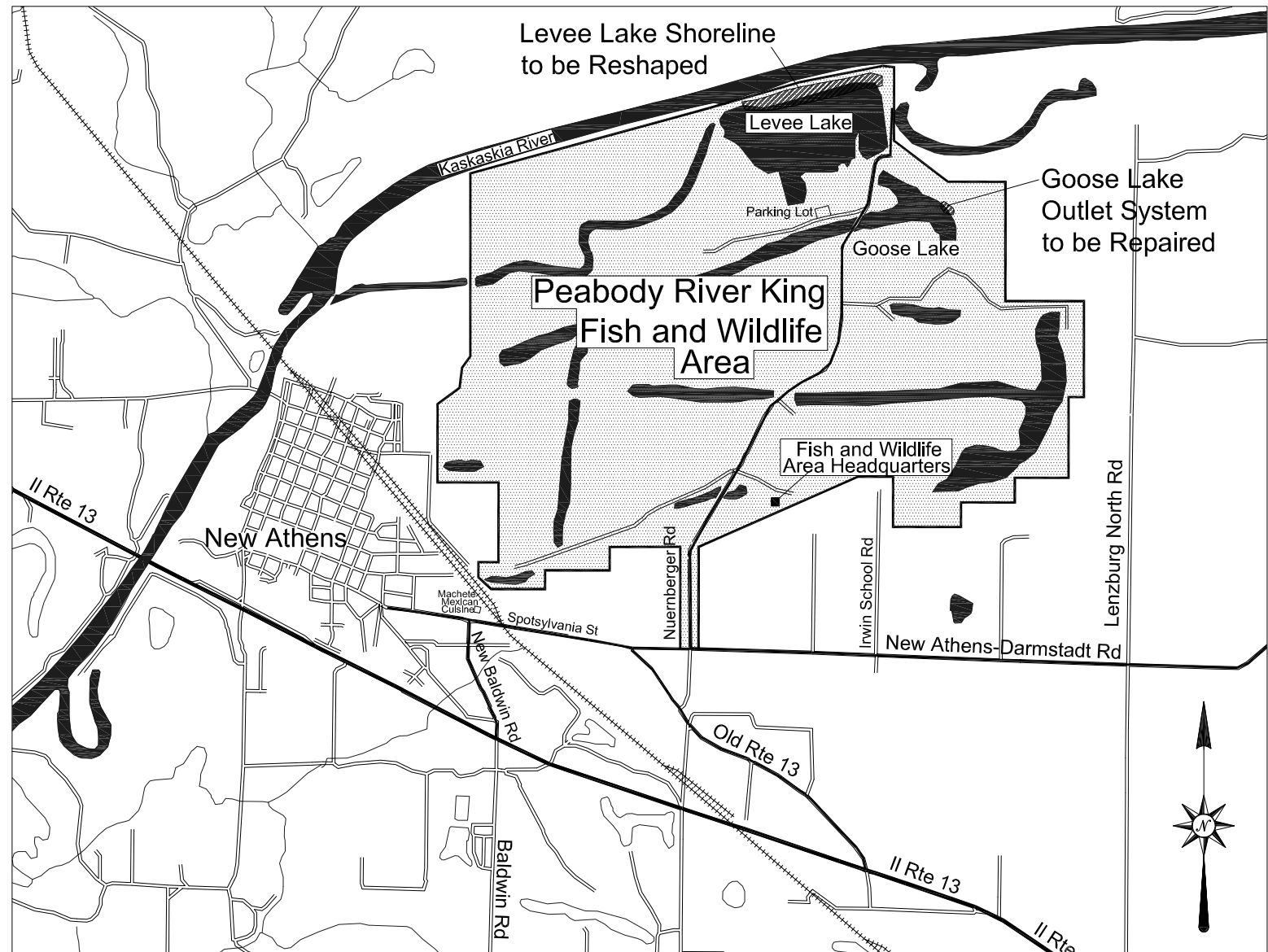
EROSION CONTROL-The contractor shall schedule his operations and take such precautions that may be necessary to prevent or minimize erosion. Failure to comply with this requirement shall cause the contractor to be fully responsible for repairing any eroded areas and cleaning up areas or drainage structures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

AGRICULTURAL GROUND LIMESTONE-Immediately prior to seed bed preparation, fertilizer nutrients and agricultural ground limestone shall be uniformly spread at the rates specified in the plans.

MULCHING-Within 24 hours from the time seeding has been performed, the seeded area shall be given a covering of mulch at the rates specified in the plans. The mulch is to be anchored into the soil in accordance with the requirements for method 2, procedure 1 of Article 251.03 of the Standard Specifications. If Excelsior or Special Excelsior Blanket is to be used, the blanket shall be placed the same day that the areas are seeded.

Schedule of Seeding, Fertilizer Nutrients and Mulch

ITEM (unit)	Feb 15, 2018 thru April 10, 2018	Aug 15, 2018 thru Sept 15, 2018	TOTAL QUANTITY
SEEDING (acres)	19.5 (acres)		19.5
AGRICULTURAL GROUND LIMESTONE (tons)	195 10 Tons/Acre		195
NITROGEN FERTILIZER NUTRIENT (pounds)	2,340 120 lbs./Acre	2,340 120 lbs./Acre	4,680
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	1,950 100 lbs./Acre	1,950 100 lbs./Acre	3,900
POTASSIUM FERTILIZER NUTRIENT (pounds)	6,825 350 lbs./Acre	6,825 350 lbs./Acre	13,650
MULCH, METHOD 2 PROCEDURE 1 (tons)	12.6 2 Tons/Acre		12.6



Location Map

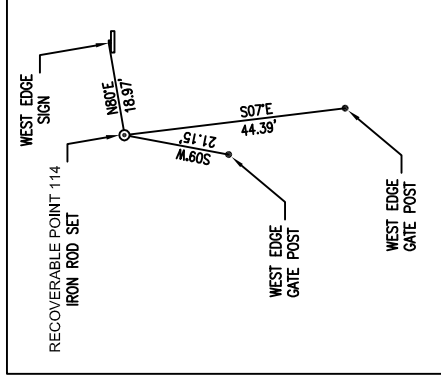
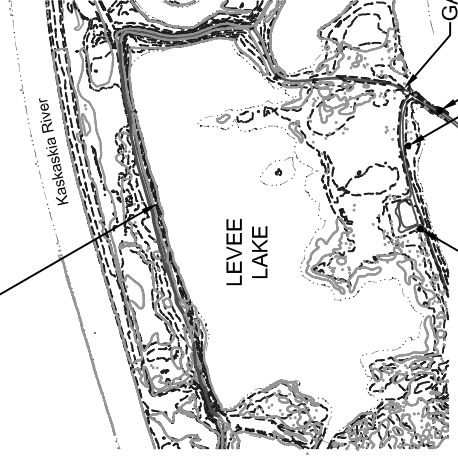
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Department of Natural Resources

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Reclamation Project
AML-GScE-1705
St. Clair County

Drawn By: T. MADDOX Date: 12/2016
Checked By: _____

Summary of Quantities/
General Notes/Location Map
Sheet
2 of 14

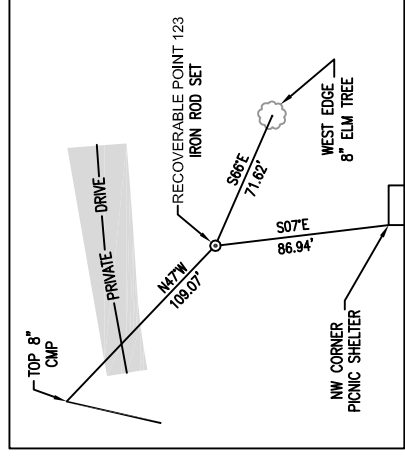
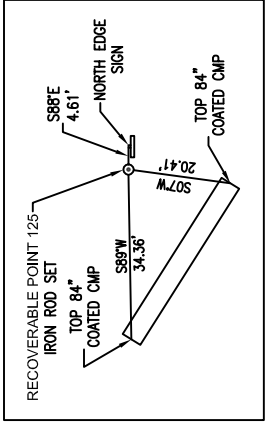
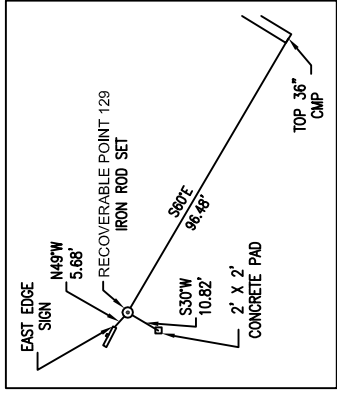
HIGHWALL TO BE
RESHAPED



RECOVERABLE POINT 114
E=2380125.225
N=608341.149

RECOVERABLE POINT 125
E=2391209.131
N=609164.677

RECOVERABLE POINT 123
E=2390885.998
N=609453.539



NEW ATHENS

Spotsylvania St.
Old Illinois 13

New Athens Damstadt Rd.

Nuemberger Rd.

Lenzburg North Rd.

Old Illinois 13

Illinois Rt. 13

River King Levee Lake



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

Legend

LENZBURG

Survey Information

Sheet  
3 of 14



Drawn By: M. FLOWERS Date: 09/2016

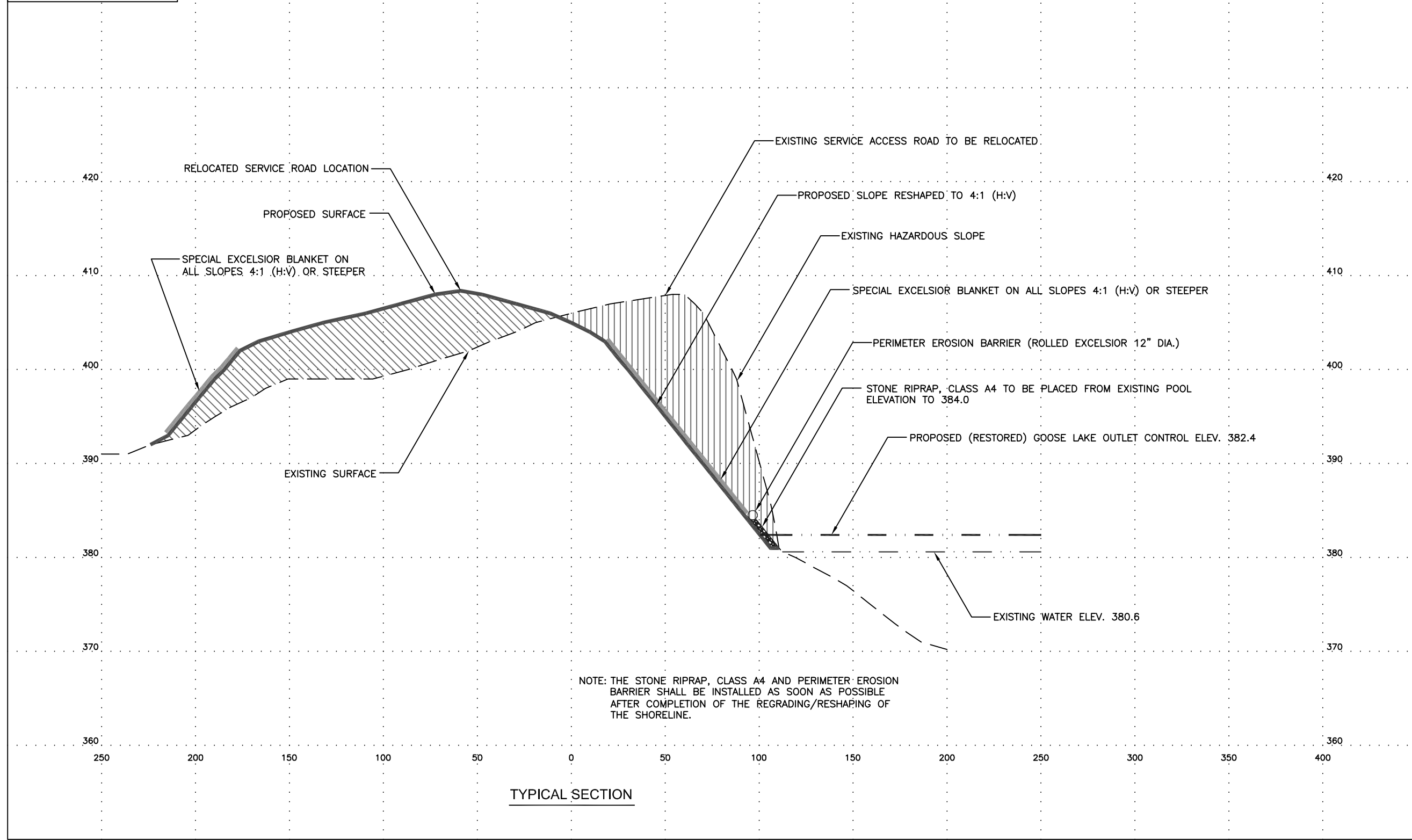
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Department of Natural Resources

Legend

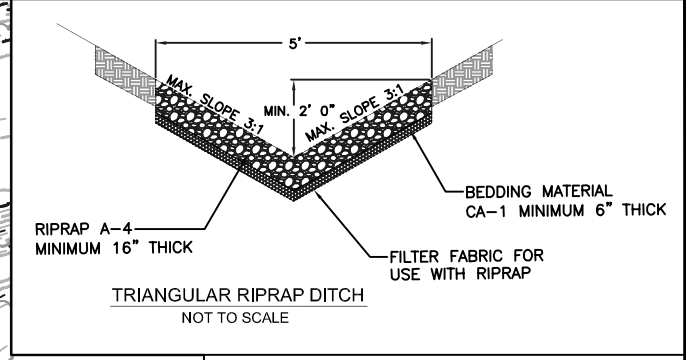
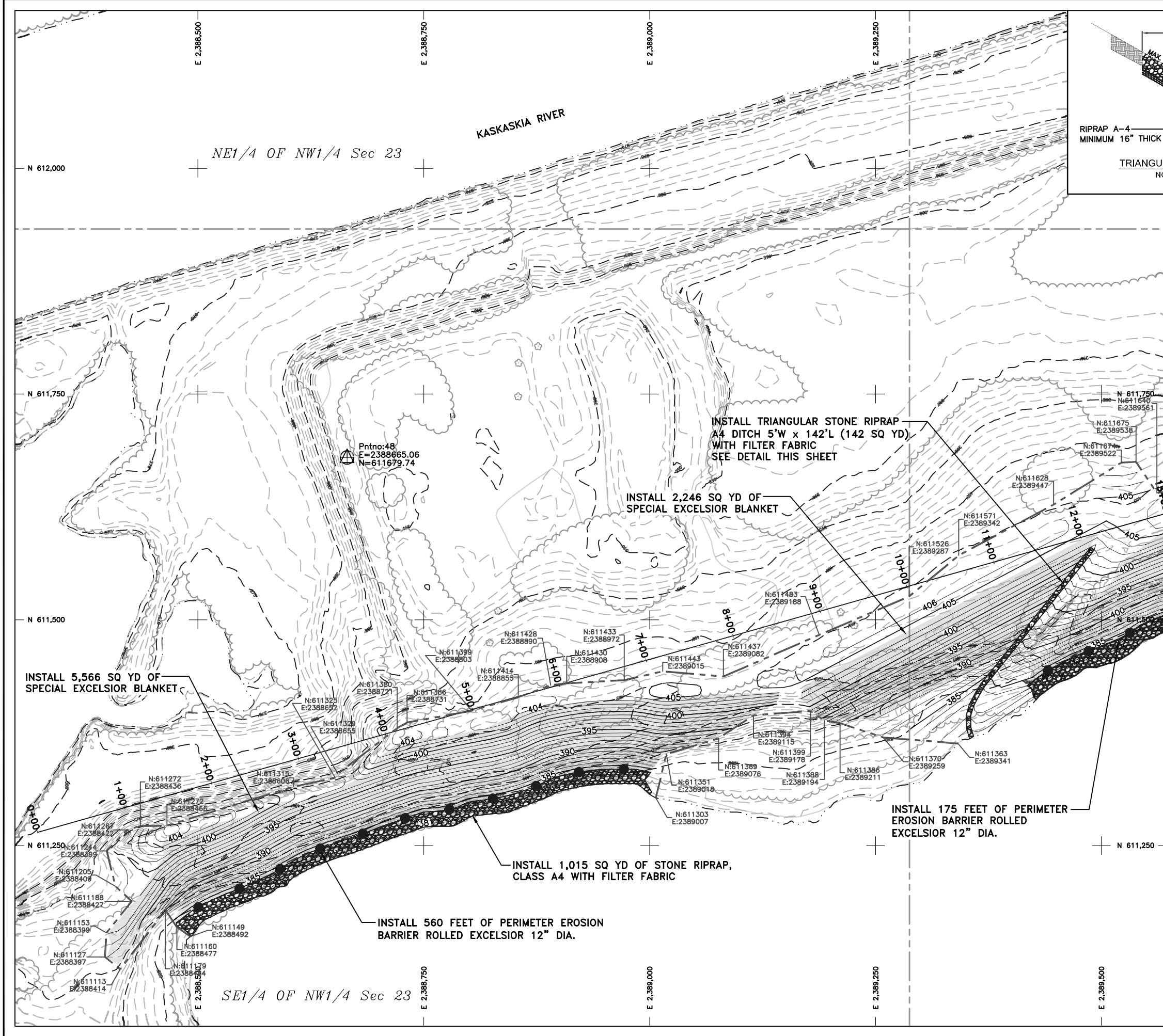
 EARTH CUT  
 EARTH FILL



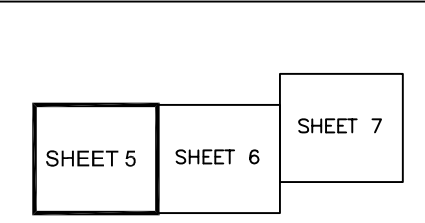
NOTE: THE STONE RIPRAP, CLASS A4 AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS SOON AS POSSIBLE AFTER COMPLETION OF THE REGRADING/RESHAPING OF THE SHORELINE.

TYPICAL SECTION

Drawn By: _____  
Checked By: _____  
Date: _____



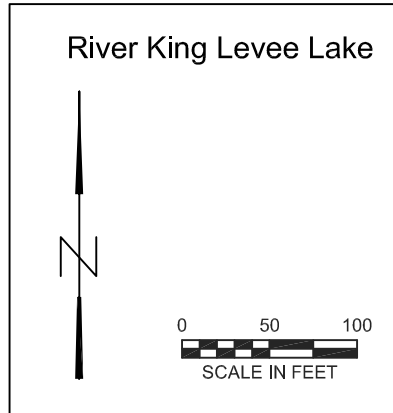
SEE SHEET 6

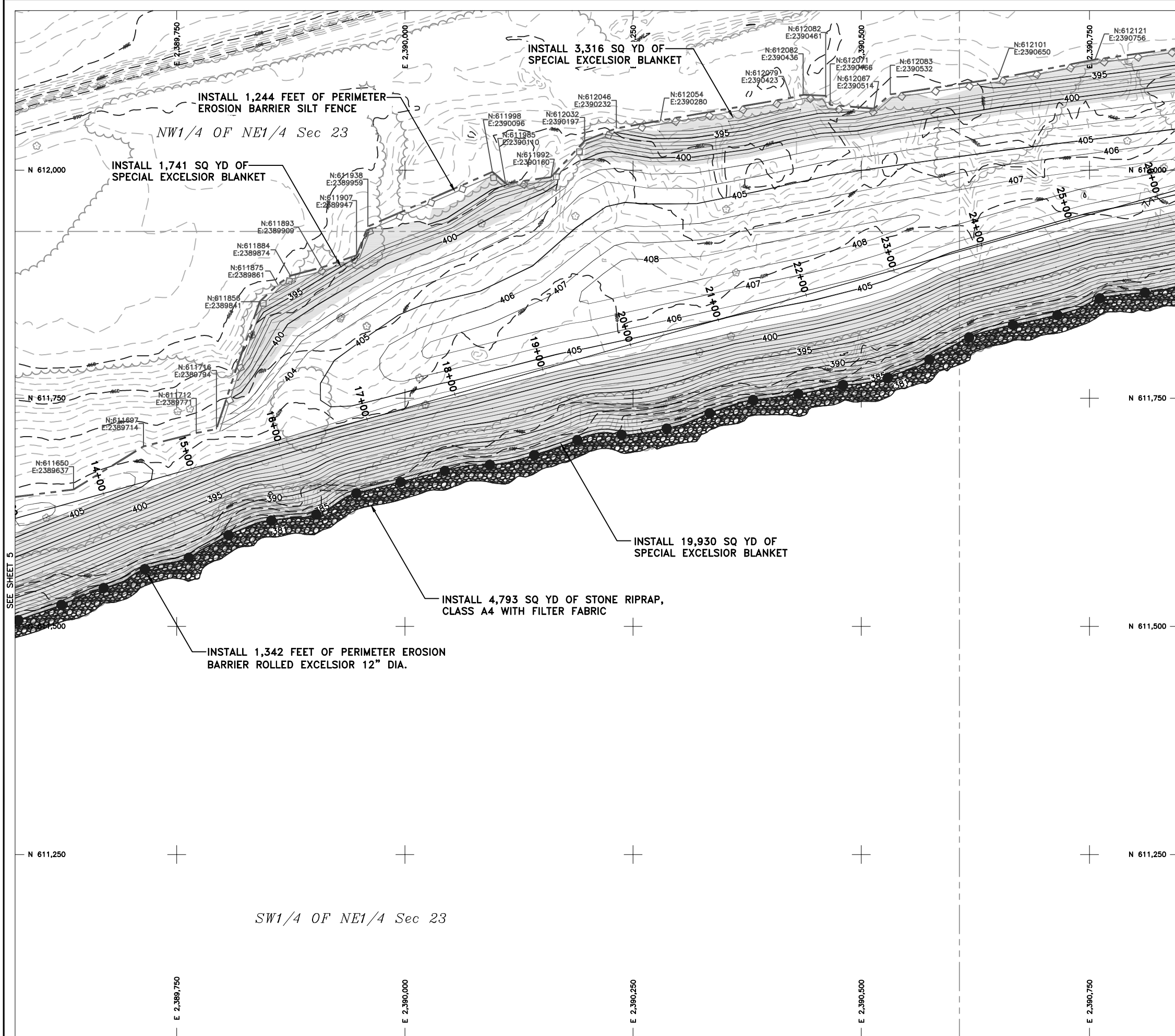


Sheet Layout

	400	EXISTING CONTOUR
	400	PROPOSED CONTOUR
		CONSTRUCTION LIMITS
		EDGE OF ROAD
		TREELINE
		EDGE OF WATER
		SURVEY CONTROL POINT
		SILT FENCE
		ROLLED EXCELSIOR
		SPECIAL EXCELSIOR BLANKET

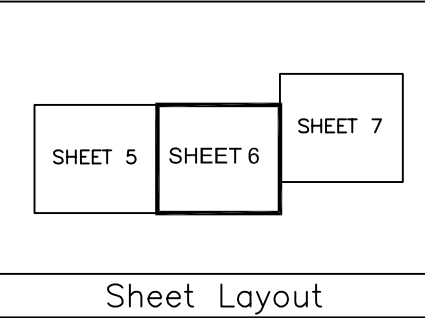
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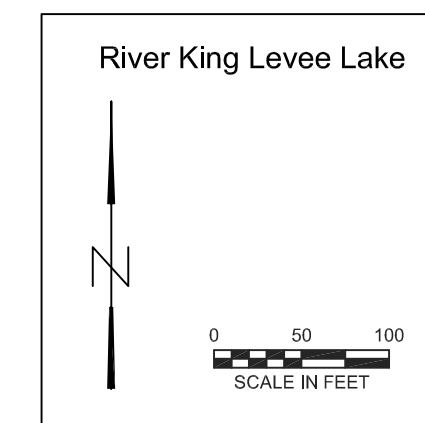


SEE SHEET 7

SEE SHEET 5



	400	EXISTING CONTOUR
	400	PROPOSED CONTOUR
		CONSTRUCTION LIMITS
		EDGE OF ROAD
		TREELINE
		EDGE OF WATER
		SURVEY CONTROL POINT
		SILT FENCE
		ROLLED EXCELSIOR
		SPECIAL EXCELSIOR BLANKET

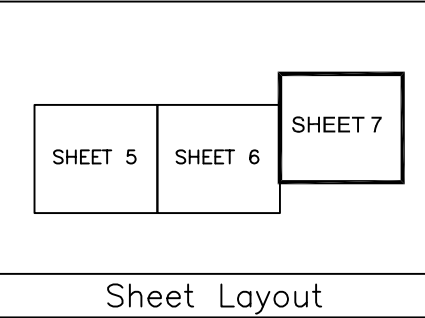
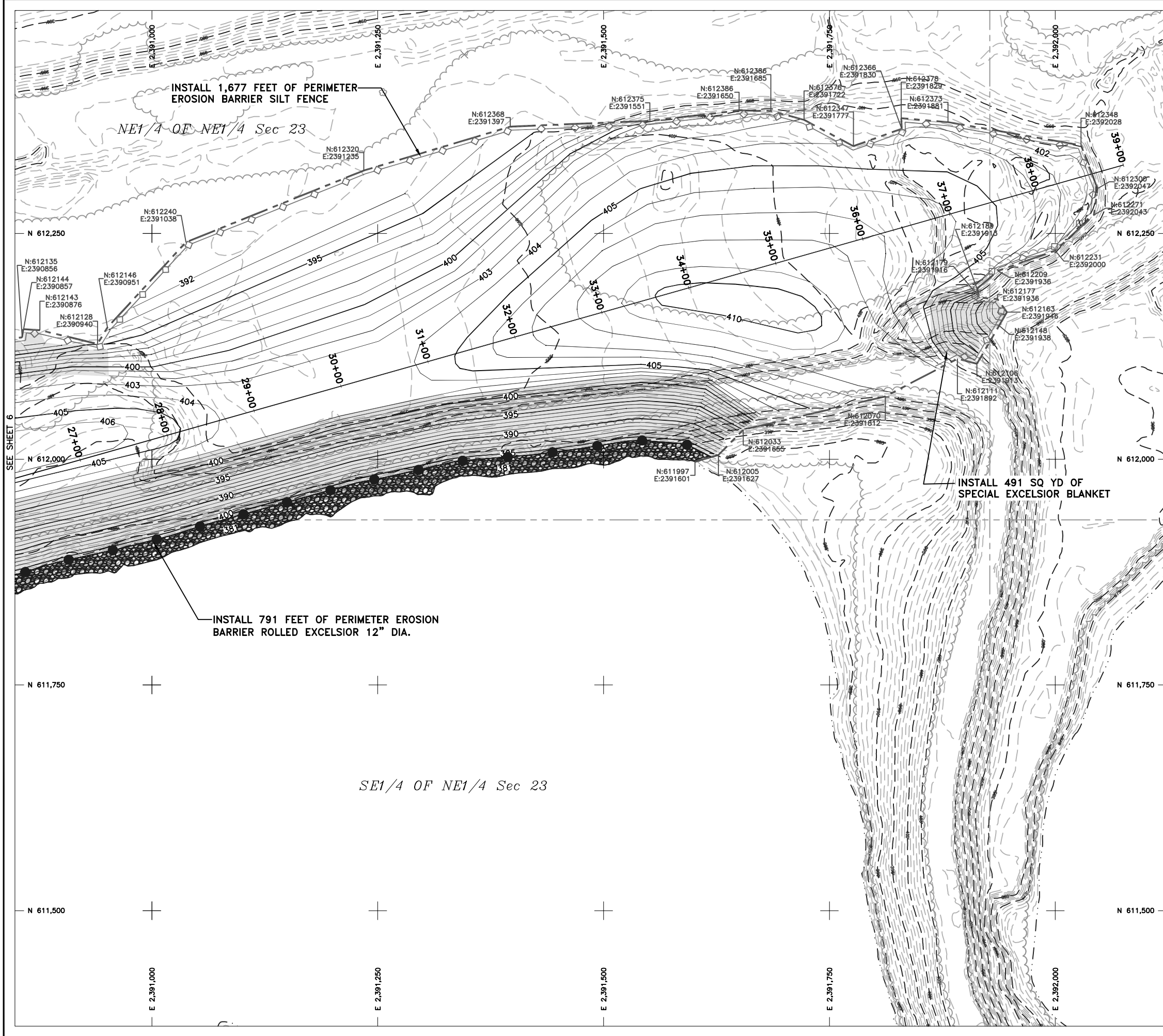


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Reclamation Project  
AML-GScE-1705  
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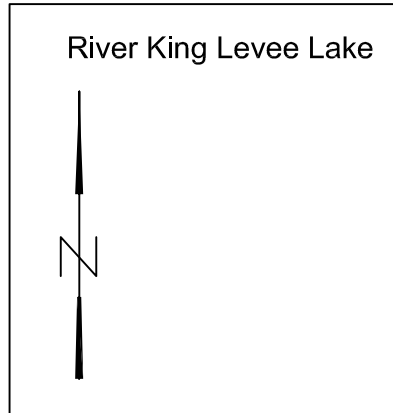
Drawn By: V. PATEL Date: 09/2016  
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Existing & Proposed  
Conditions  
Sheet  
6 of 14



Legend

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	SURVEY CONTROL POINT
	SILT FENCE
	ROLLED EXCELSIOR
	SPECIAL EXCELSIOR BLANKET



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Existing & Proposed  
Conditions  
Sheet  
7 of 14

APPROXIMATE LOCATION OF EXISTING RIPRAP STOCKPILE. THE EXISTING STONE RIPRAP LOCATED WITHIN THE CONSTRUCTION LIMITS AROUND THE GOOSE LAKE OUTLET SYSTEM SHALL BE REMOVED AND PLACED AT THE EXISTING RIPRAP STOCK PILE NORTH OF THE OUTLET SYSTEM,

INSTALL 911 SQ. YD. OF SPECIAL EXCELSIOR BLANKET

N:609507  
E:2393946

N:609537  
E:2393982

N:609586  
E:2394053

N:609576  
E:2394067

N:609590  
E:2394088

N:609562  
E:2394111

N:609533  
E:2394076

N:609520  
E:2394086

N:609458  
E:2393978

(B) 14 MISSING OUTLET FLAP GATE TO BE REPLACED

(A) 14 EXISTING 36" DIAMETER OUTLET PIPE TO BE REPAIRED WITH 102 FEET OF INSERTION CULVERT LINER-36"

EXISTING VOID TO BE BACKFILLED TO ELEVATION 383.0 WITH BENTONITE-AGGREGATE COMPOSITE BACKFILL

(C) 14 ANTI-SEEP TRENCH DAM TO BE CONSTRUCTED WITH BENTONITE-AGGREGATE COMPOSITE BACKFILL

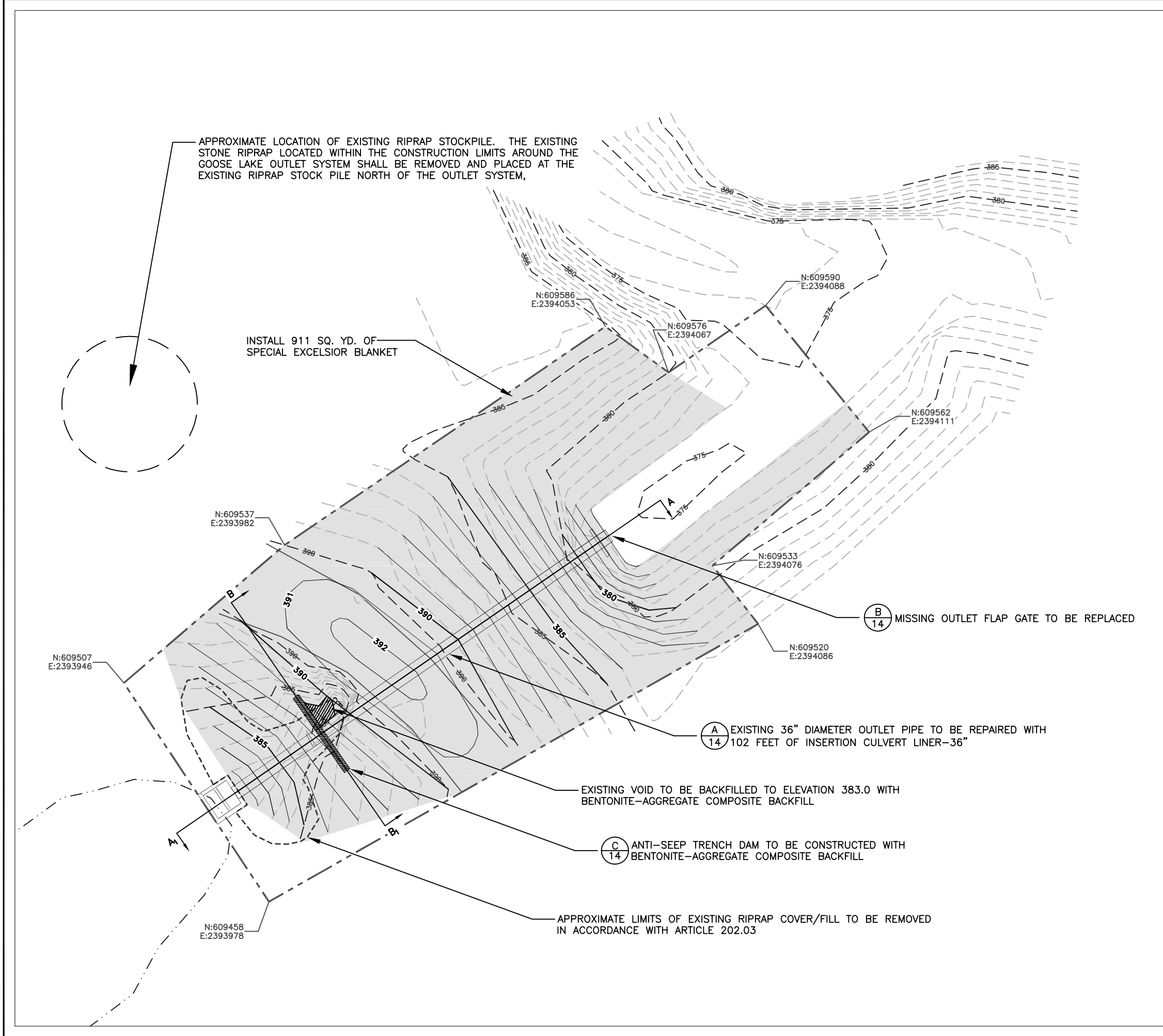
APPROXIMATE LIMITS OF EXISTING RIPRAP COVER/FILL TO BE REMOVED IN ACCORDANCE WITH ARTICLE 202.03

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	SURVEY CONTROL POINT
	SPECIAL EXCELSIOR BLANKET

Legend

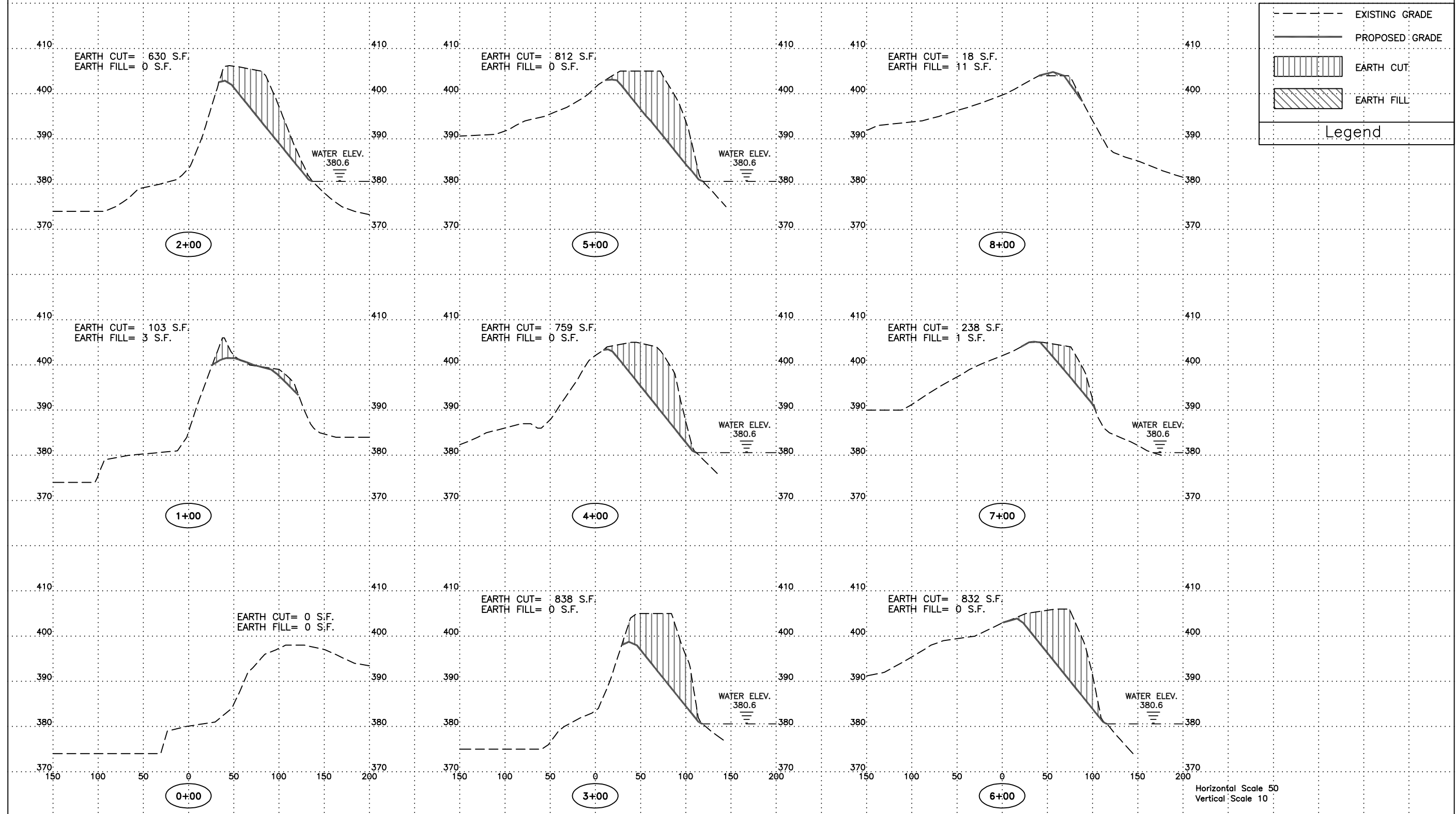
River King Levee Lake  
Goose Lake Outlet

SCALE IN FEET

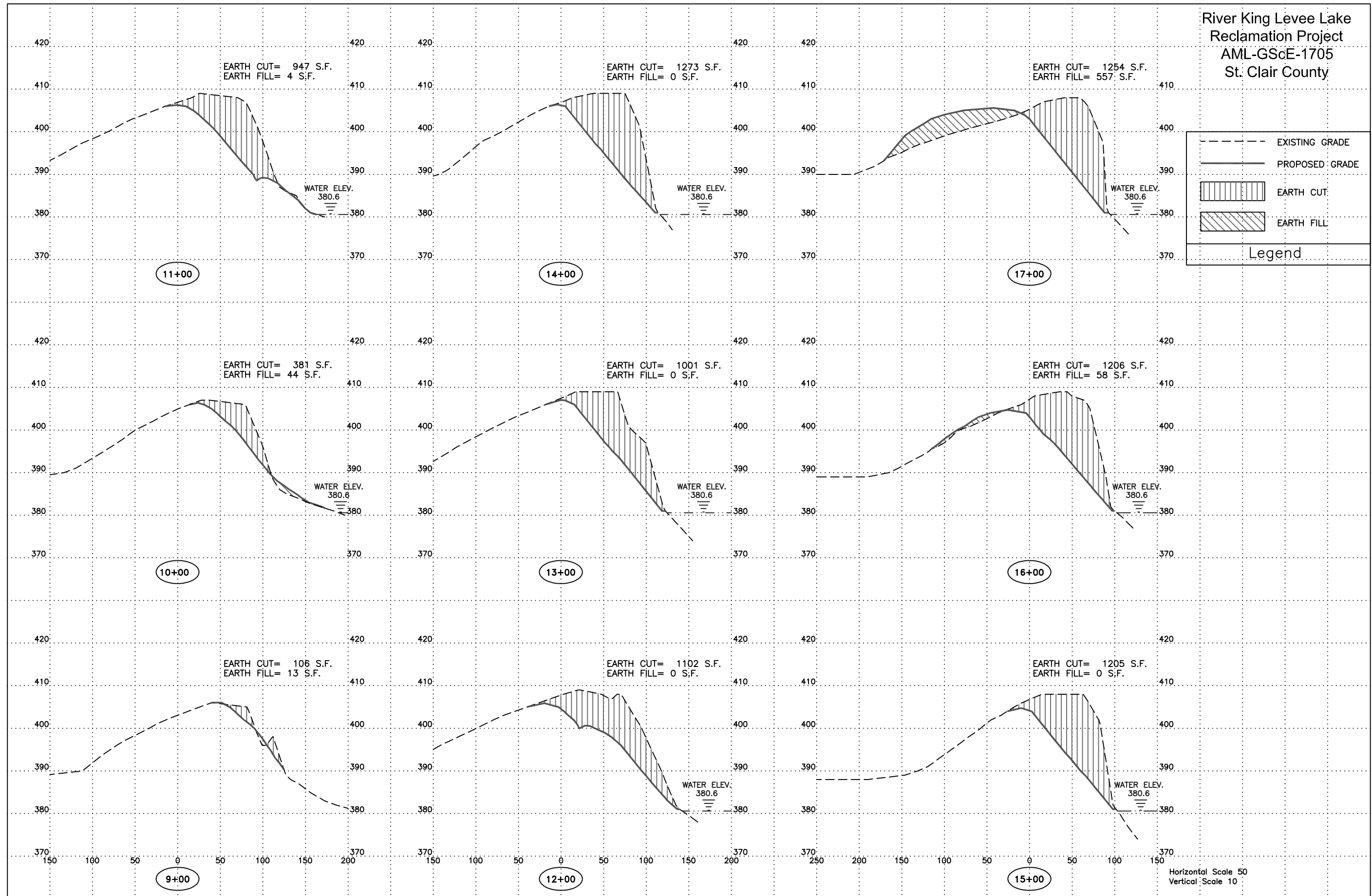
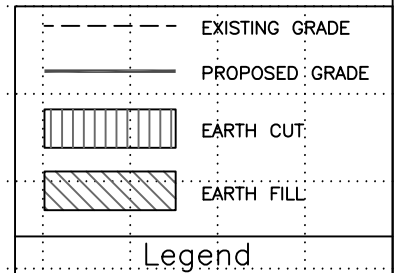




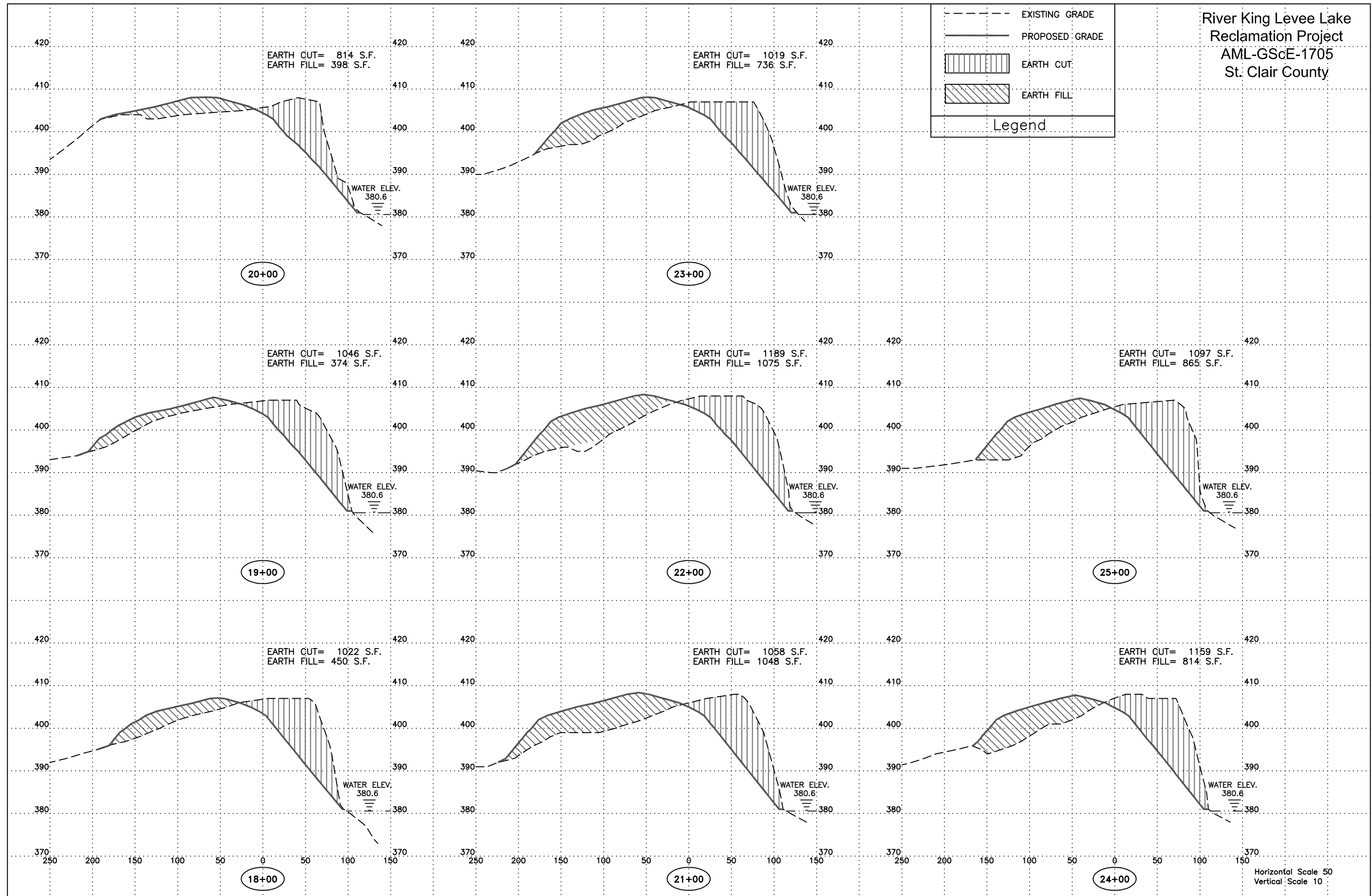
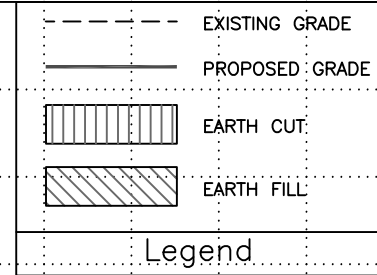
River King Levee Lake  
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St. Clair County



River King Levee Lake  
Reclamation Project  
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St. Clair County

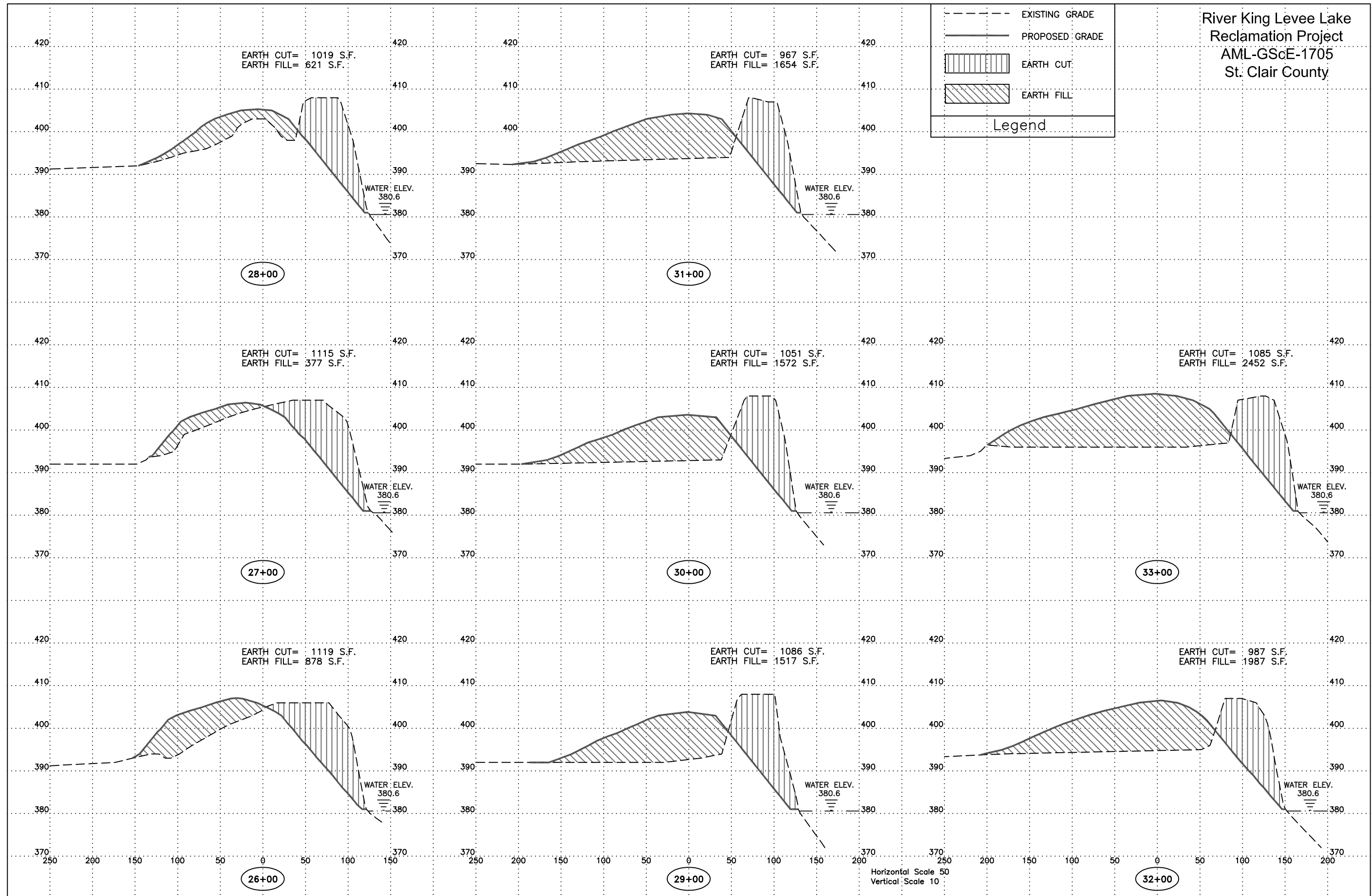
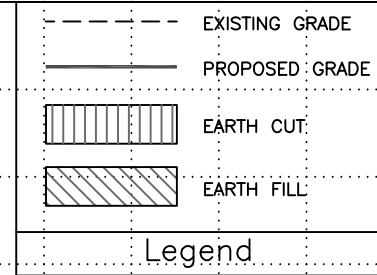


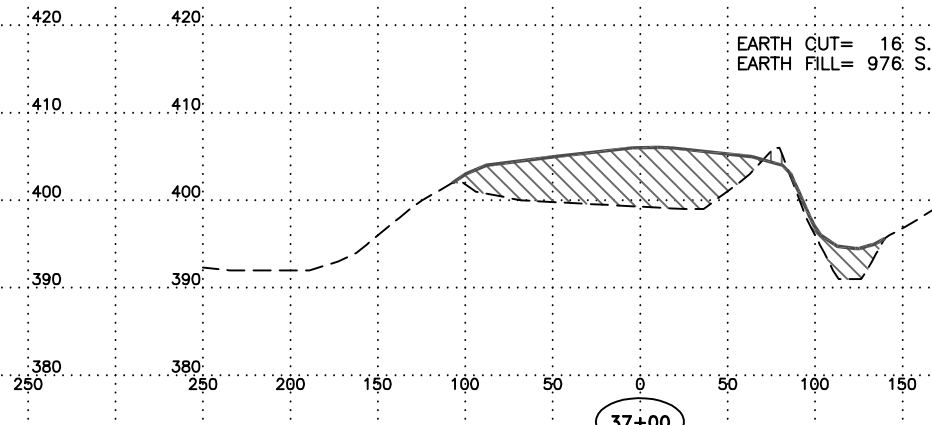
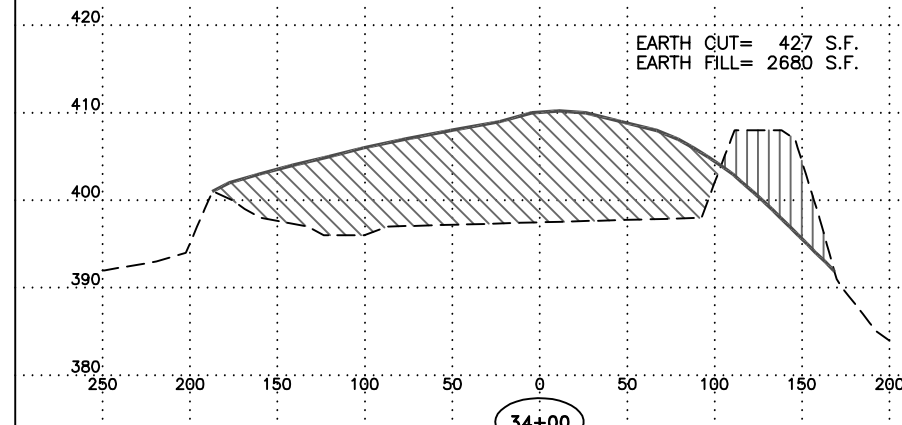
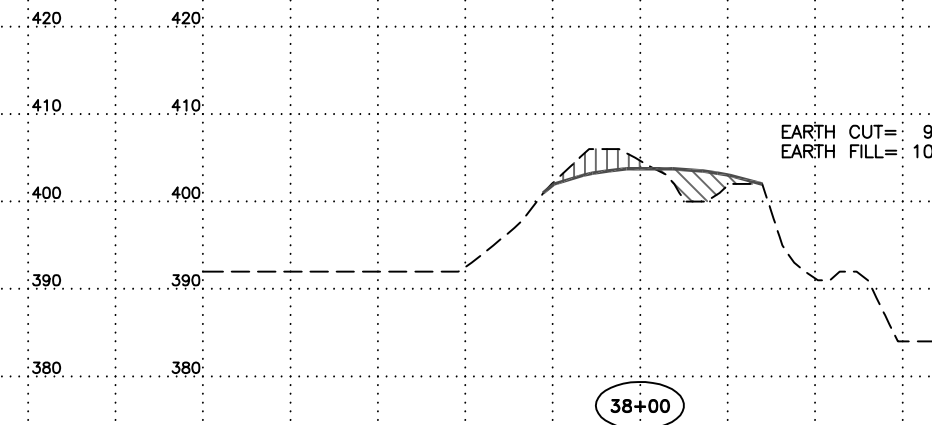
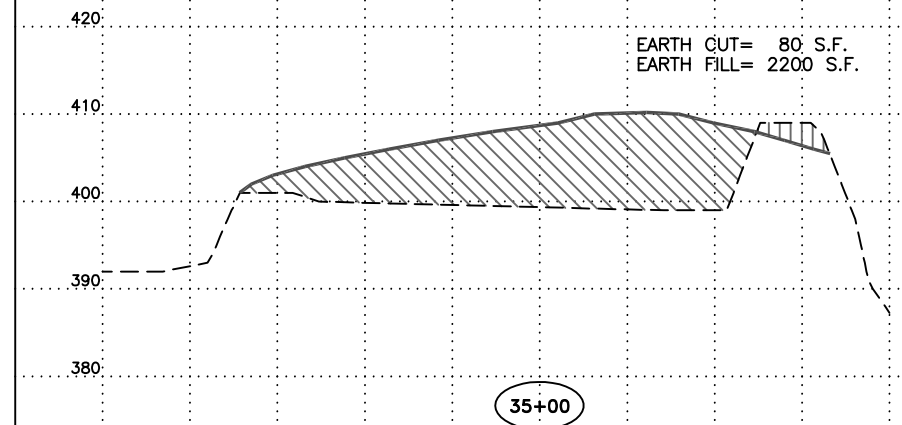
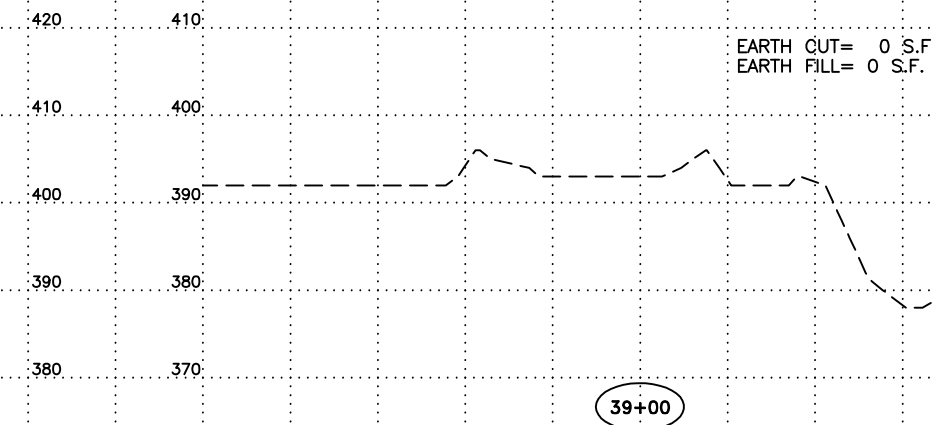
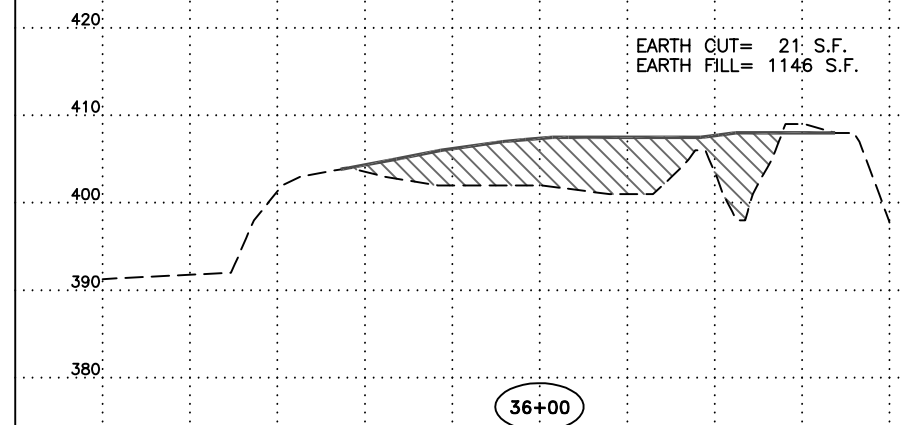
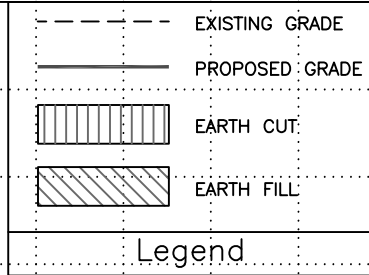
River King Levee Lake  
Reclamation Project  
AML-GScE-1705  
St. Clair County



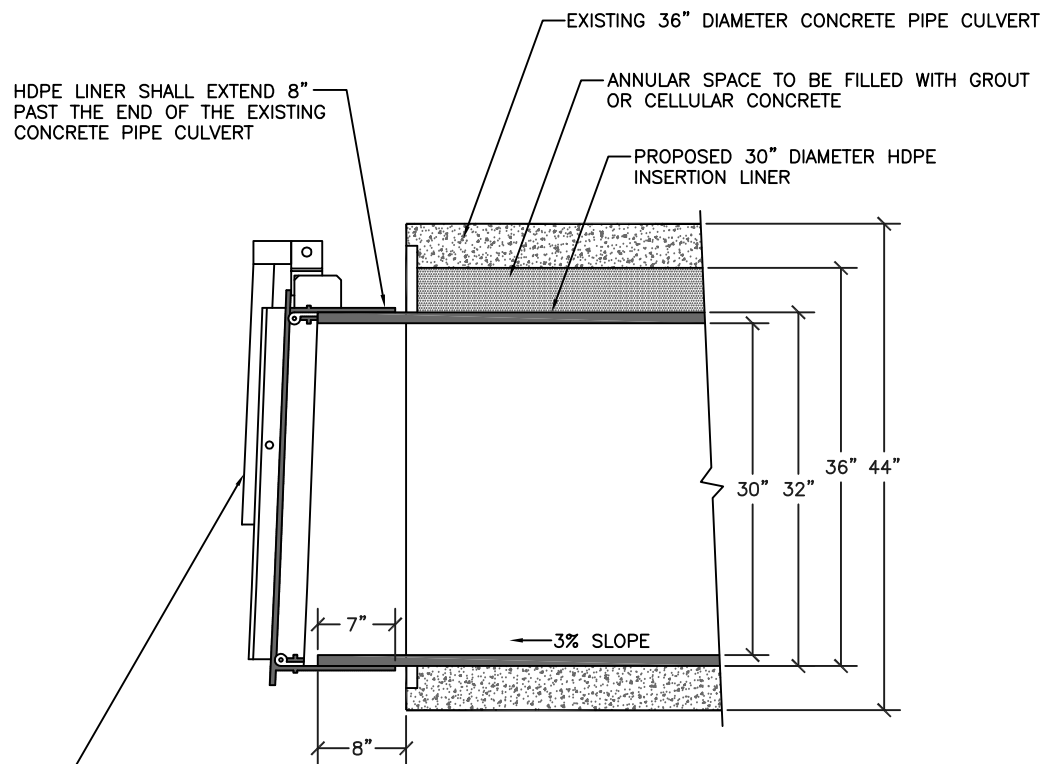
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Vertical Scale 10

River King Levee Lake  
Reclamation Project  
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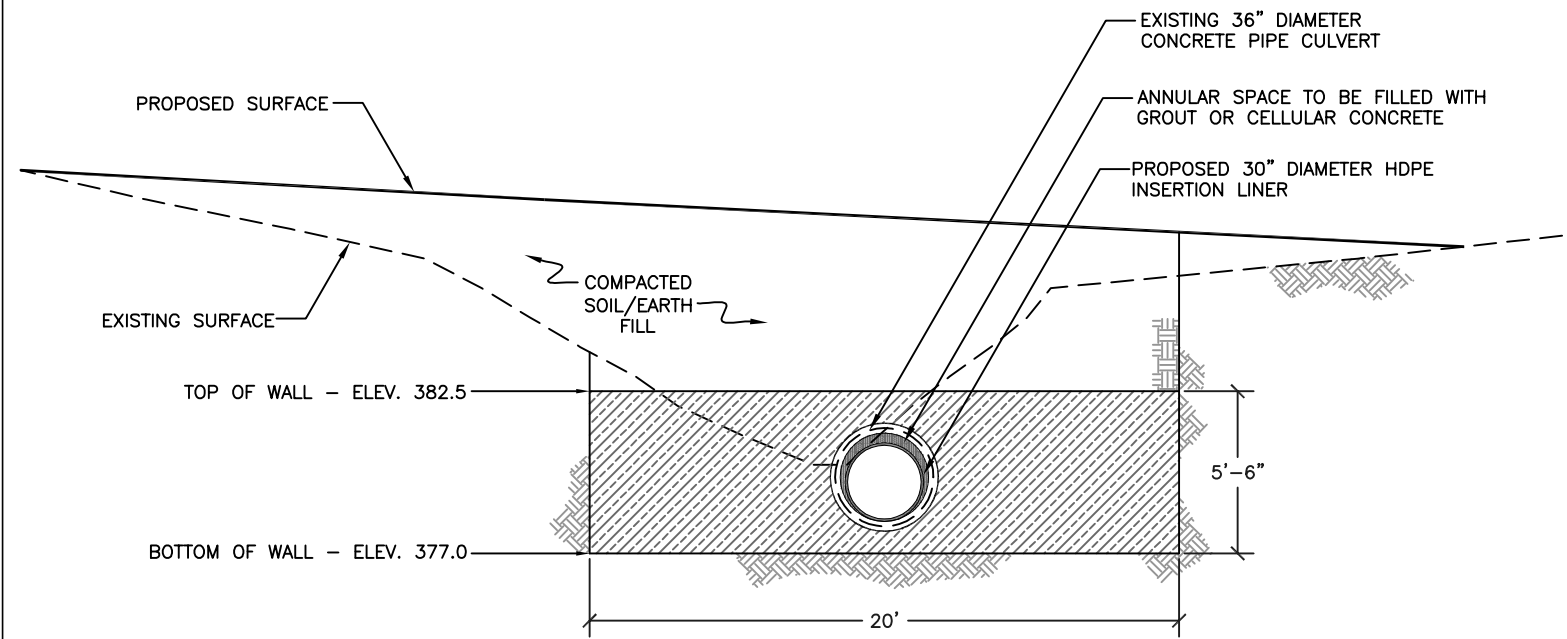


Horizontal Scale 50  
 Vertical Scale 10



MODEL AF-41 ALUMINUM DRAINAGE GATE WITH A TYPE 6 SPIGOT FOR USE WITH SOLID WALLED HIGH DENSITY POLYETHYLENE (HDPE) PIPE AS MANUFACTURED BY WATERMAN INDUSTRIES, OR EQUIVALENT. THE SPIGOT SHALL BE ATTACHED TO THE HDPE PIPE CULVERT LINER WITH A MINIMUM OF 6(SIX)  $\frac{3}{8}$ " DIAMETER STAINLESS STEEL BOLTS.

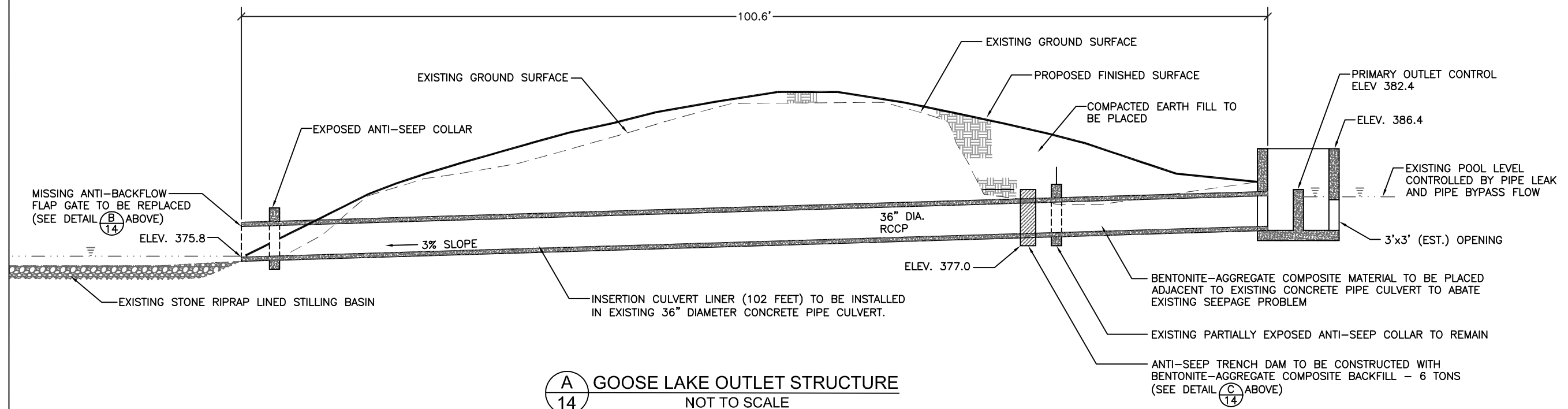
**(B) GOOSE LAKE OUTLET FLAP GATE**  
14 NOT TO SCALE



**(C) ANTI-SEEP TRENCH DAM**  
14 NOT TO SCALE

**NOTES:** PRIOR TO THE PLACEMENT OF THE BENTONITE-AGGREGATE COMPOSITE MATERIAL, THE CONTRACTOR SHALL COMPLETE THE REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS. ALL AREAS DESIGNATED TO RECEIVE THE COMPOSITE BACKFILL SHALL ALSO BE FREE OF STANDING OR FLOWING WATER PRIOR TO PLACEMENT OF THE MATERIAL. A TEMPORARY EARTHEN EMBANKMENT OR DIKE MAY BE REQUIRED TO BLOCK WATER FROM ENTERING THE WORK AREA. ANY STANDING WATER SHALL BE REMOVED PRIOR TO PLACING BACKFILL MATERIAL. THE COST OF DEWATERING THE WORK AREA SHALL BE CONSIDERED INCIDENTAL.

THE CONTRACTOR SHALL EXERCISE DUE CARE IN MATERIAL HANDLING TO PREVENT FIELD STORAGE AND INSTALLATION DAMAGE WHICH COULD IMPAIR THE FUNCTION AND DURABILITY OF THE INSTALLATION. THE BENTONITE-AGGREGATE COMPOSITE BACKFILL SHALL BE PLACED IN A DRY STATE, USING CLEAN DRY EQUIPMENT IN A MANNER TO ELIMINATE VOIDS FROM BRIDGING. THE MATERIAL SHALL NOT BE BLENDED WITH NATIVE SOIL AND DOES NOT REQUIRE COMPACTION.



**(A) GOOSE LAKE OUTLET STRUCTURE**  
14 NOT TO SCALE

Date: _____  
Drawn By: _____  
Checked By: _____