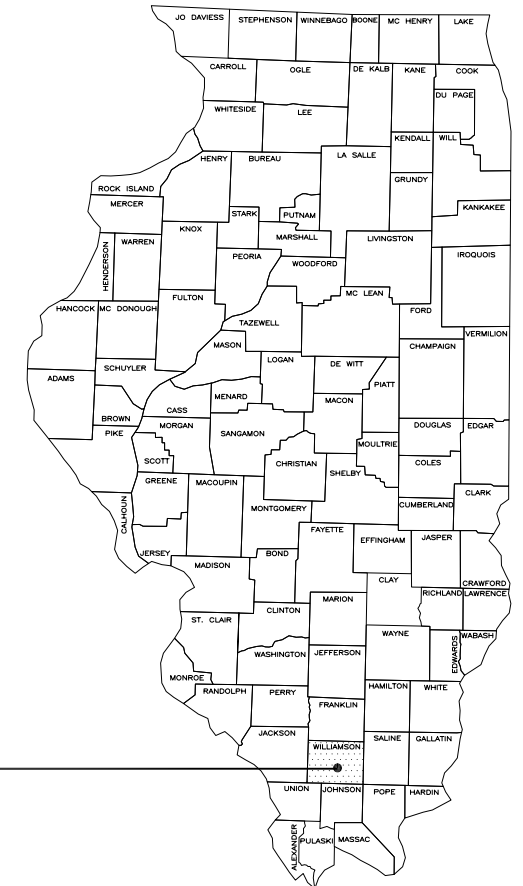


**State of Illinois**  
**Department of Natural Resources**  
**Office of Mines and Minerals**  
**Division of Abandoned Mined Lands**

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

**Delta Collieries North Phase II**  
**Reclamation Project**  
**AML-GWmE-1212**  
**Williamson County**  
**1LR**

*Certified Copy*



**Delta Collieries North**  
**Williamson County (See Sheet 2 for Location)**

**PRE-BID MEETING**  
A Pre-Bid Meeting is scheduled for this project on February 20, 2013 at 1:00 PM. All interested potential bidders are to meet at the entrance of the project site.

**SCHEDULE OF DRAWINGS**

- 1. Cover Sheet
- 2. Summary of Quantities/General Notes/Location Map
- 3. Sheet Layout and Survey Control Data
- 4-6. Existing Conditions
- 7-9. Proposed Conditions
- 10-21. Cross Sections
- I.D.O.T. Standard 701011-03 Traffic Control Devices

Prepared By IDNR Staff

Approved for Bidding:

Michael L. Woods, Director  
Office of Mines and Minerals

Approved By:

Greg Pinto, Acting Manager  
AML Division

Approved By:

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



Summary of Quantities

#	Item	Section	Quantity	Unit	Rates/Remarks
1	Special Clearing	201	1	L.S.	
2	Earth Excavation	202	62,850	C.Y.	Compaction per Section 205
3	Channel Excavation	IDOT 203	2,662	C.Y.	
4	Seeding	250	31.5	ACRE	
5	Nitrogen Fertilizer Nutrient	250	6,300	POUND	100 Pounds/Acre x 2
6	Phosphorous Fertilizer Nutrient	250	4,410	POUND	140 Pounds/Acre
7	Potassium Fertilizer Nutrient	250	9,450	POUND	300 Pounds/Acre
8	Agricultural Ground Limestone	250	630	TON	20.0 Tons/Acre
9	Mulch, Method 2, Procedure 1	IDOT 251	31.5	ACRE	2.0 Tons/Acre
10	Turf Reinforcement Mat	IDOT 251	1,829	S.Y.	
11	Mowing	258	30	ACRE	
12	Cement Kiln Dust Placement	259	41,776	C.Y.	
13	Aggregate Ditch Check	280	23.1	TON	RR-3, See Detail A-9
14	Inlet and Pipe Protection	280	3	EACH	
15	Earth Excavation for Erosion Cntrl.	280	18	C.Y.	Temp. Sediment Pond
16	Special Excelsior Blanket	286	7,004	S.Y.	
17	Aggregate Surface Course, Type B	IDOT 402	412	TON	CA-6
18	Pipe Culvert, 42" PE w/smooth int.	IDOT 542	100	FOOT	
19	De-Watering Impoundments	614	1	L.S.	Est. Vol. 1,070,422 Gallons
20	Mobilization (maximum 6% of bid)	671	1	L.S.	
21	Woven Wire Fence Repair	672	1,515	FOOT	R & R Barbed Wire Fence
22	Traffic Control and Protection	701	1	L.S.	IDOT Standard 701011-03

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.

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

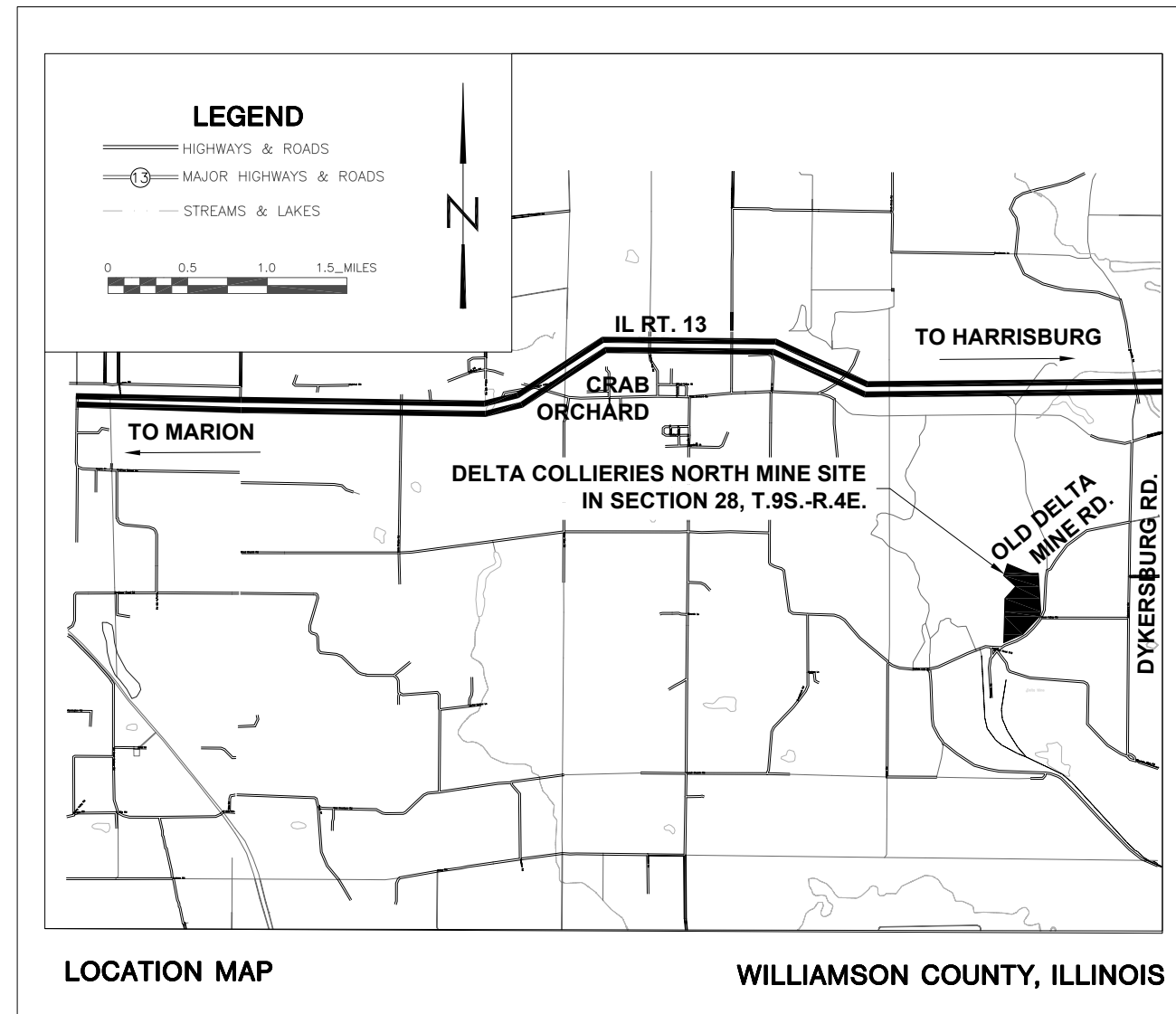
BURIAL/REMOVAL OF MATERIAL-Concrete and masonry debris designated for burial by the engineer shall be buried at least three feet below proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer approved offsite landfill in accordance with Sections 201 and 501 of the Special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

TREE REMOVAL-Trees removed shall be disposed of onsite per Section 201 of the Special Provisions. Prior to award of the contract, an undetermined number of trees may be felled to mitigate concerns of bat habitat in the borrow excavation area.

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 LESTONE-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 2013 AUG. 20-SEPT. 30	SECOND APPLICATION SPRING 2014 JAN. 1- MARCH 15	MOWING TO BE COMPLETED BY JUNE 30, 2014 OR AS DIRECTED BY ENGINEER	TOTAL QUANTITY
SEEDING (acres)	31.5 Acres			31.5 Acres
AGRICULTURAL GROUND LESTONE (tons)	630.0 Tons			630.0 Tons
NITROGEN FERTILIZER NUTRIENT (pounds)	3,150 Lbs.	3,150 Lbs.		6,300 Lbs.
PHOSPHOROUS FERTILIZER NUTRIENT (pounds)	4,410 Lbs.			4,410 Lbs.
POTASSIUM FERTILIZER NUTRIENT (pounds)	9,450 Lbs.			9,450 Lbs.
MULCH, METHOD 2 PROCEDURE 1 (acres)	31.5 Acres			31.5 Acres
MOWING (acres)			30.0 Acres	30.0 Acres

State of Illinois  
Department of Natural Resources

Delta Collieries North Phase II  
Reclamation Project  
AML-GWME-1212  
Williamson County

Date: \_\_\_\_\_  
Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_

Summary of Quantities/  
General Notes/Location Map  
Sheet 2 of 21



PLAN SHEETS 6 & 9

PLAN SHEETS 5 & 8

PLAN SHEETS 4 & 7

POINT I.D.	NORTHING	EASTING	ELV.	DESCRIPTION
1	382395.94	860030.4	478.99	IRON PIN
2	382296.87	857861.4	529.13	IRON PIN
3	378873.89	858329.6	506.35	IRON PIN
4	379988.37	860328.4	496.67	IRON PIN
5	380774.75	859216.1	520.08	IRON PIN

Pntno: 5  
 E=859216.05  
 N=380774.75

N: 382,197.03  
 E: 860,152.22  
 33+00

SE Corner  
 NE 1/4, Sec. 28  
 T.9S.-R.4E.

Legend

- 500 --- EXISTING CONTOUR
- 500 — PROPOSED CONTOUR
- CONSTRUCTION LIMITS
- EDGE OF ROAD
- TREELINE
- APPROX. PROPERTY LINE (3 PROPERTY OWNERS)
- SURVEY CONTROL POINT
- TELEPHONE POLE-EX

0 50 100  
SCALE IN FEET

Sheet Layout and Survey Control Data

Sheet 3 of 21

Drawn By: \_\_\_\_\_ Date: \_\_\_\_\_

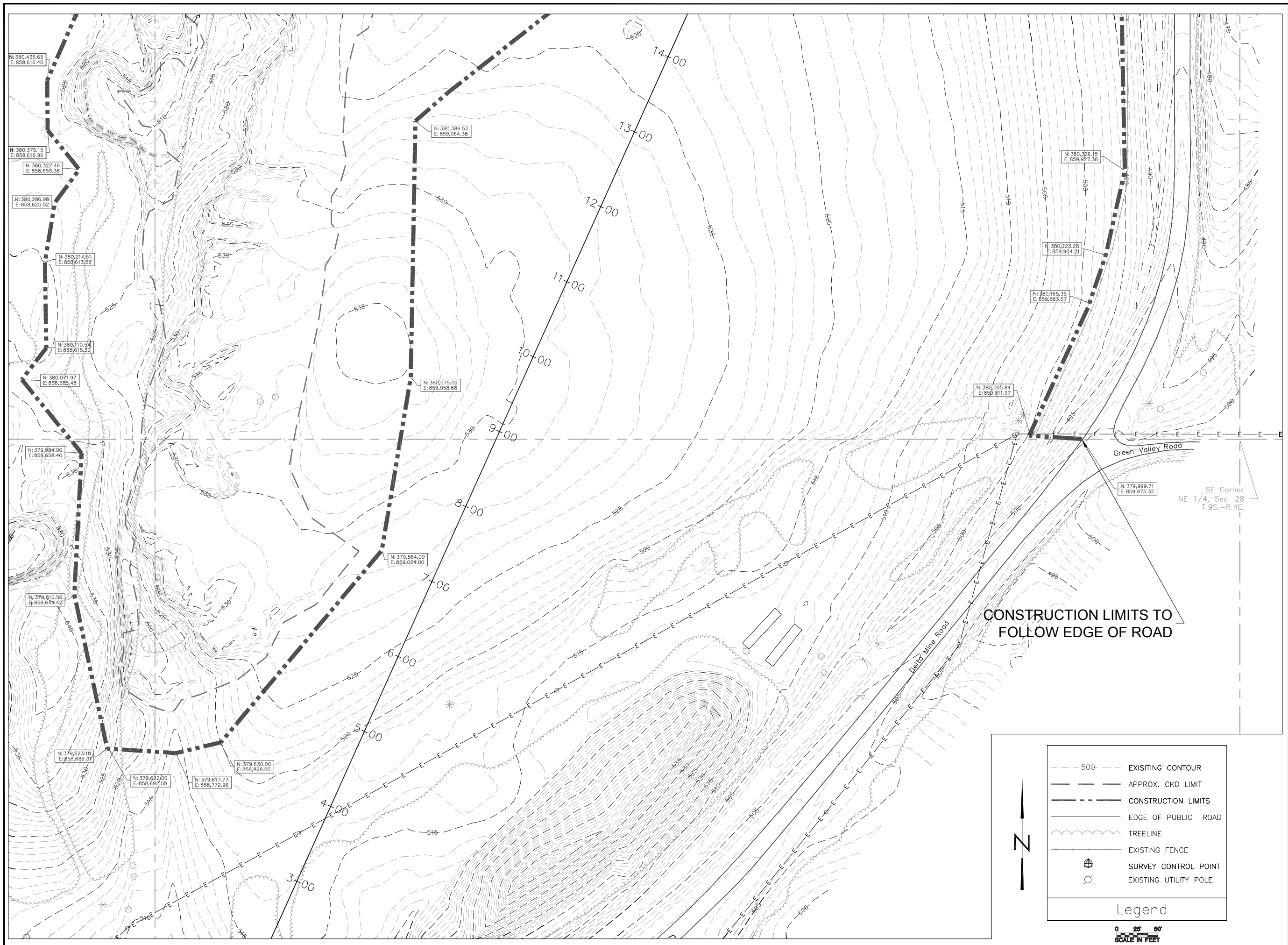
Checked By: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
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**Delta Collieries North Phase II  
 Reclamation Project  
 AML-GWmE-1212  
 Williamson County**

**State of Illinois  
 Department of Natural Resources**





Drawn By: \_\_\_\_\_ Date: \_\_\_\_\_  
Checked By: \_\_\_\_\_



N

	500	EXISTING CONTOUR
		APPROX. CKD LIMIT
		CONSTRUCTION LIMITS
		EDGE OF PUBLIC ROAD
		TREELINE
		EXISTING FENCE
		SURVEY CONTROL POINT
		EXISTING UTILITY POLE

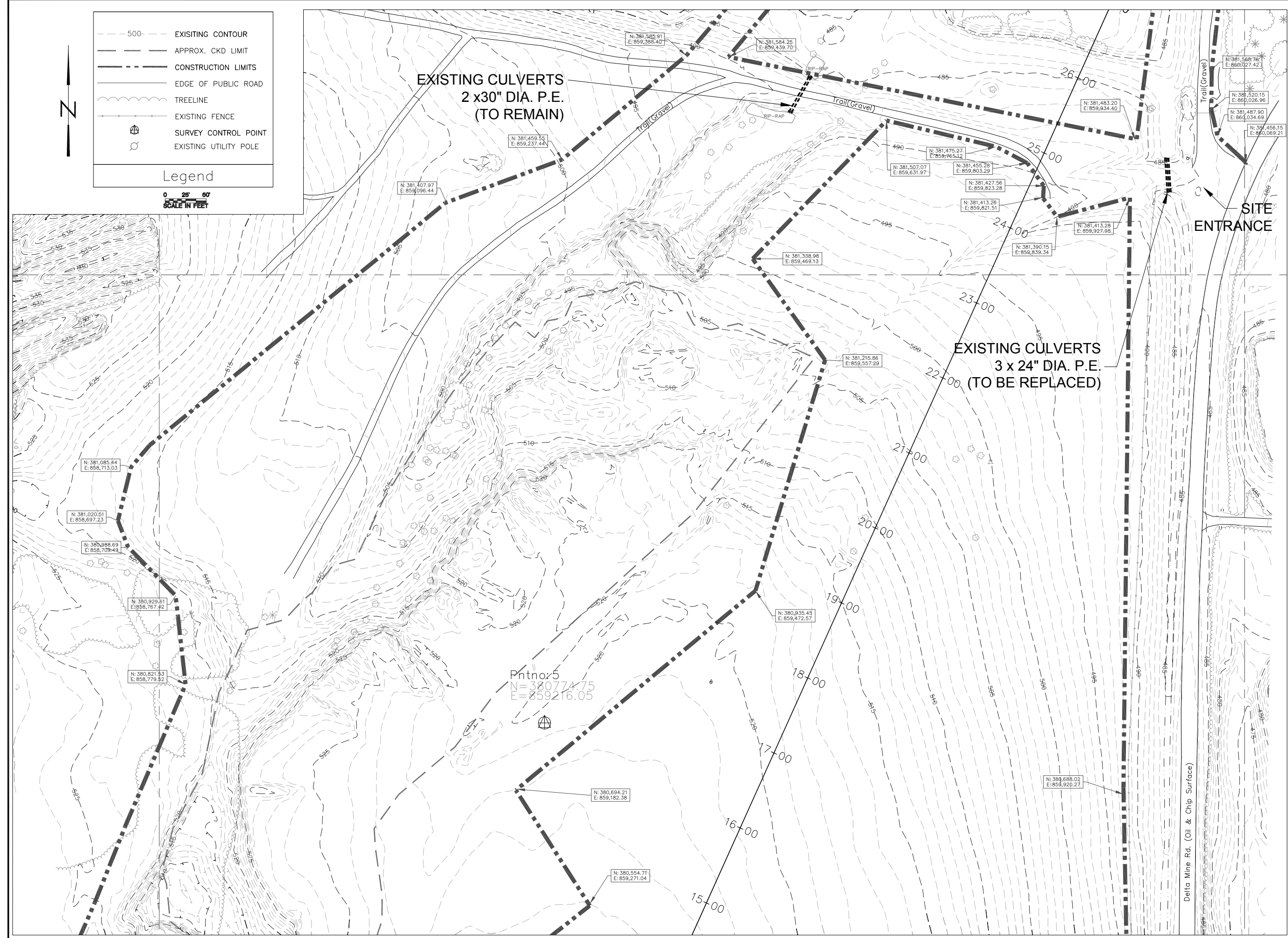
Legend

0 25 50  
SCALE IN FEET



--- 500 --- EXISTING CONTOUR  
 - - - - - APPROX. CKD LIMIT  
 - - - - - CONSTRUCTION LIMITS  
 ——— EDGE OF PUBLIC ROAD  
 ~~~~~ TREELINE  
 ——— EXISTING FENCE  
 SURVEY CONTROL POINT  
 EXISTING UTILITY POLE

Legend



State of Illinois  
Department of Natural Resources

Delta Collieries North Phase II  
Reclamation Project  
AML-GWmE-1212  
Williamson County

Drawn By: \_\_\_\_\_ Date: \_\_\_\_\_  
Checked By: \_\_\_\_\_

Existing  
Conditions

Sheet 5 of 21



|  |                       |
|--|-----------------------|
|  | EXISTING CONTOUR      |
|  | APPROX. CKD LIMIT     |
|  | CONSTRUCTION LIMITS   |
|  | EDGE OF ROAD          |
|  | TREELINE              |
|  | EXISTING FENCE        |
|  | SURVEY CONTROL POINT  |
|  | EDGE OF WATER SURFACE |

Legend



IMPOUNDMENT TO BE DE-WATERED,  
WTR. SURF. ELV. 498.2 ON 1/30/2011  
VOLUME: 118,910 Gal.  
ACIDITY: 0 mg/L

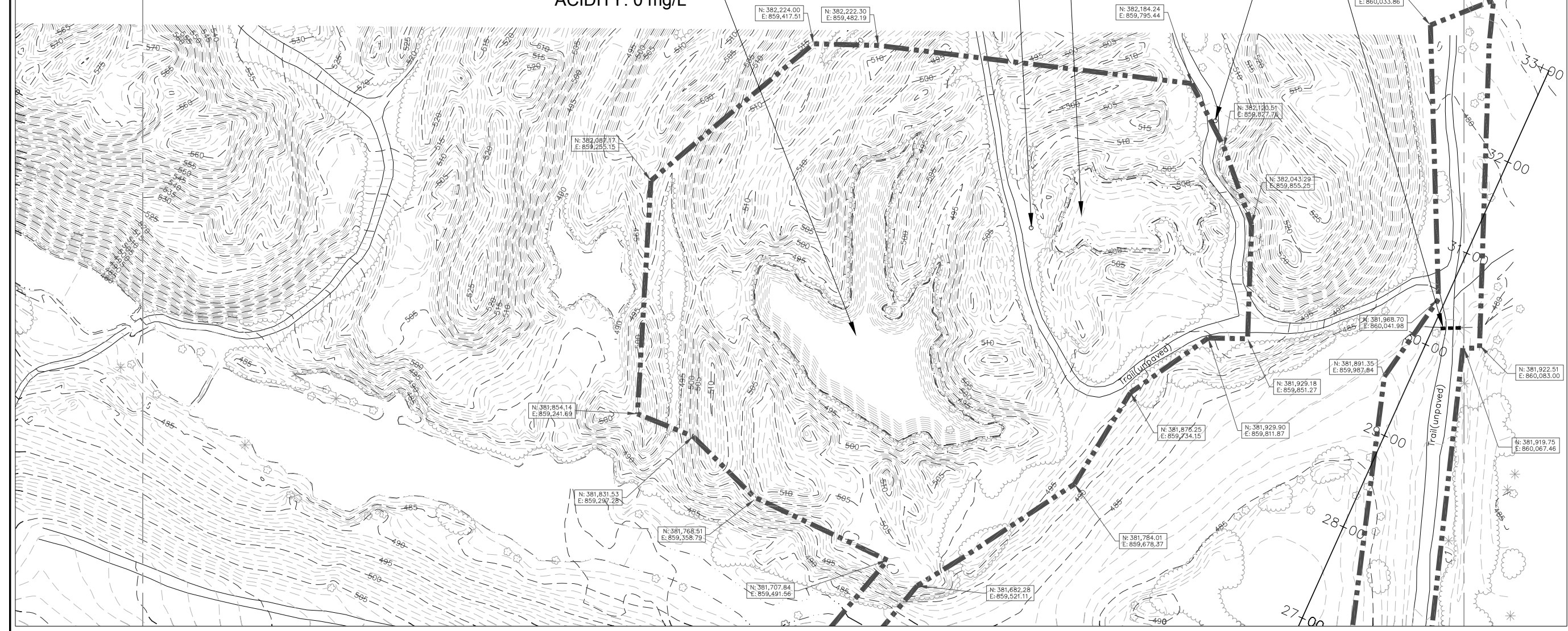
EXISTING CULVERT  
42" DIA. P.E.  
(TO BE REPLACED)

Pntno: 1  
N=382395.94  
E=860030.44

SOIL BORING  
B309

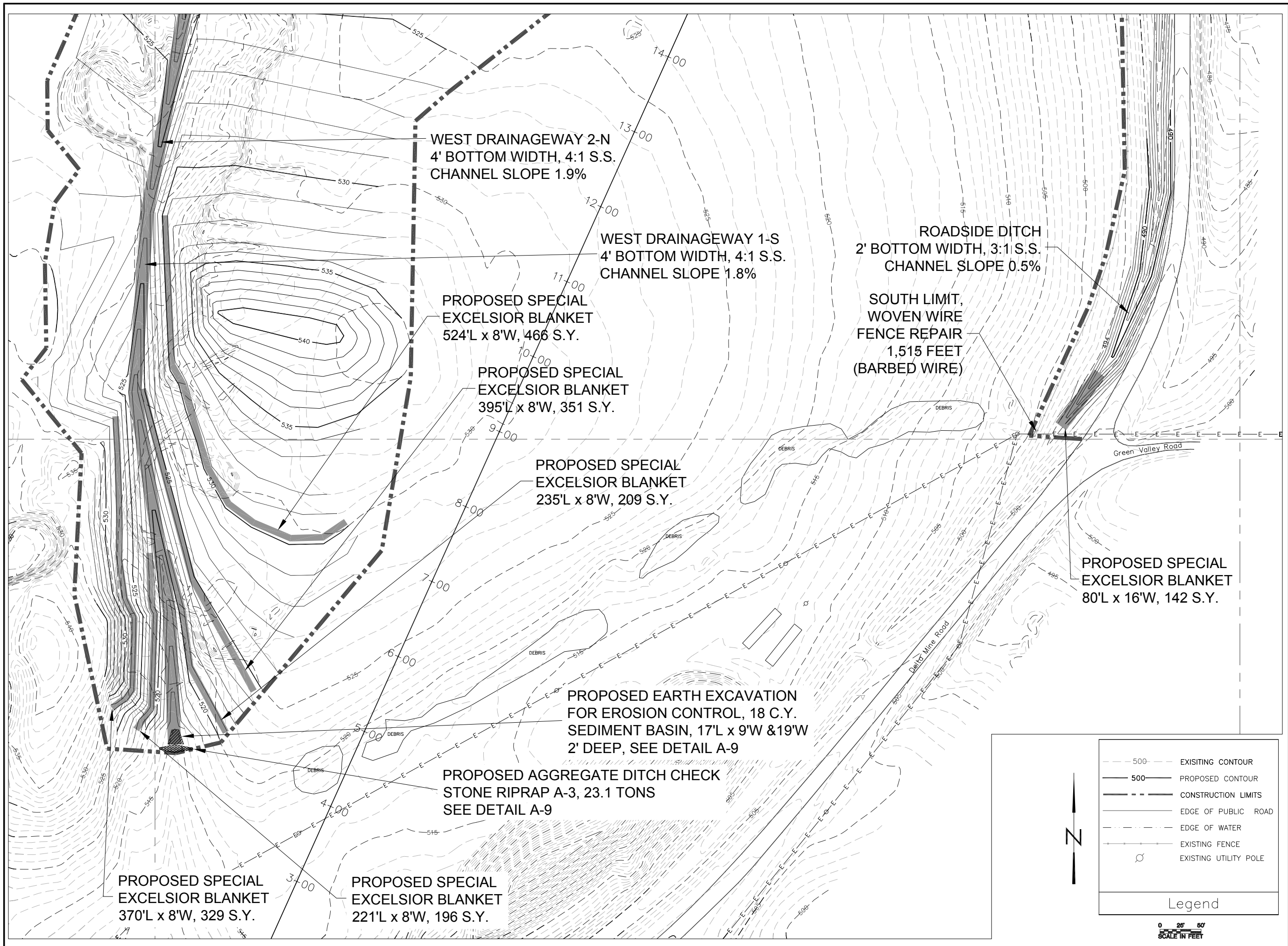
SOIL BORING  
B310

IMPOUNDMENT TO BE DE-WATERED,  
WTR. SURF. ELV. 490.8 ON 1/30/2011  
VOLUME: 951,512 Gal.  
ACIDITY: 0 mg/L



Drawn By: \_\_\_\_\_ Date: \_\_\_\_\_  
Checked By: \_\_\_\_\_





Drawn By: \_\_\_\_\_ Date: \_\_\_\_\_  
Checked By: \_\_\_\_\_

**Legend**

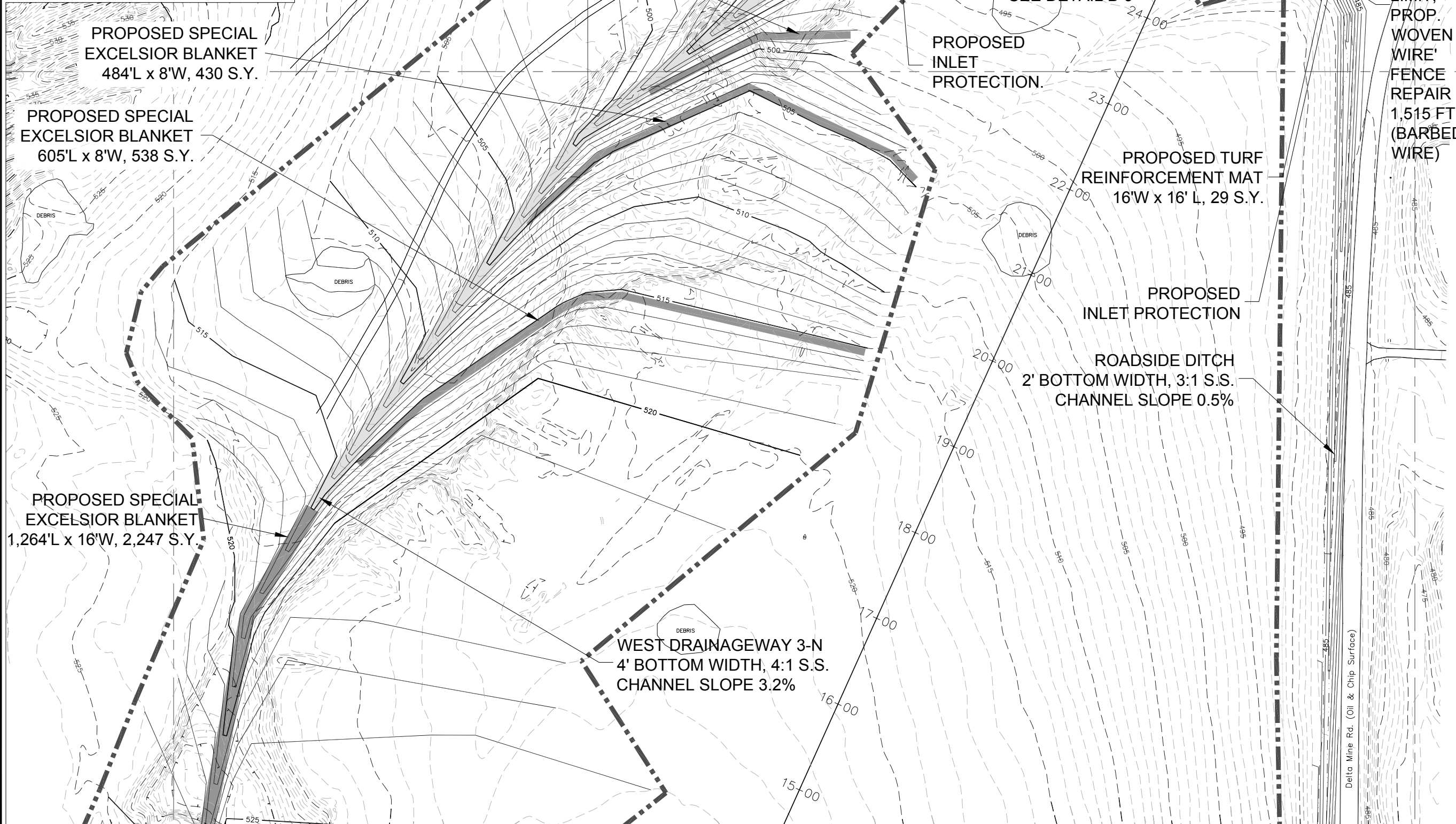
- 500 --- EXISTING CONTOUR
- 500 — PROPOSED CONTOUR
- - - - - CONSTRUCTION LIMITS
- — — — — EDGE OF PUBLIC ROAD
- - - - - EDGE OF WATER
- - - - - EXISTING FENCE
- ⊙ EXISTING UTILITY POLE

0 25 50  
SCALE IN FEET



|  |                       |
|--|-----------------------|
|  | 500- EXISTING CONTOUR |
|  | 500- PROPOSED CONTOUR |
|  | CONSTRUCTION LIMITS   |
|  | EDGE OF PUBLIC ROAD   |
|  | EDGE OF WATER         |
|  | EXISTING FENCE        |
|  | EXISTING UTILITY POLE |

Legend



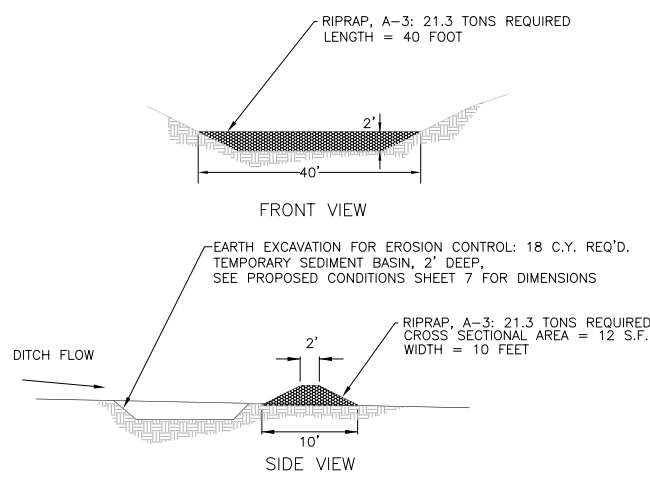
State of Illinois  
Department of Natural Resources

Delta Collieries North Phase II  
Reclamation Project  
AML-GWmE-1212  
Williamson County

Drawn By: \_\_\_\_\_ Date: \_\_\_\_\_  
Checked By: \_\_\_\_\_

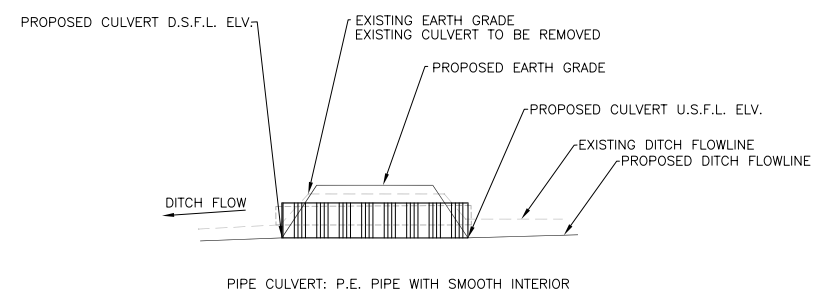
Proposed  
Conditions  
Sheet 8 of 21



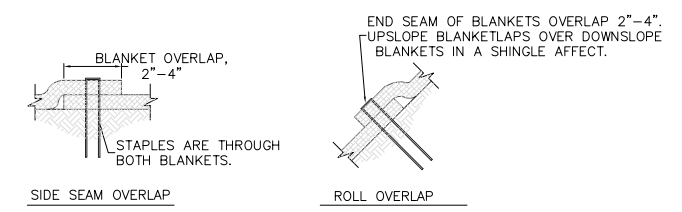


**A** TYPICAL RIPRAP CHECK DAM AND SEDIMENT BASIN  
NOT TO SCALE

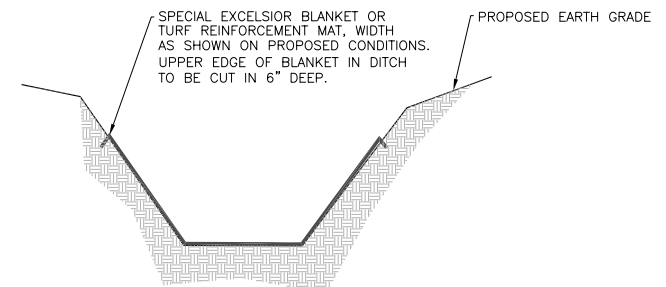
| CULVERT I.D. | SIZE | U.S.F.L. ELV. | D.S.F.L. ELV. | EARTH GRADE |
|--------------|------|---------------|---------------|-------------|
| 1            | 42"  | 480.65        | 480.45        | 486.50      |
| 2            | 42"  | 481.15        | 480.95        | 486.50      |
| 3            | 42"  | 478.50        | 478.40        | 483.50      |



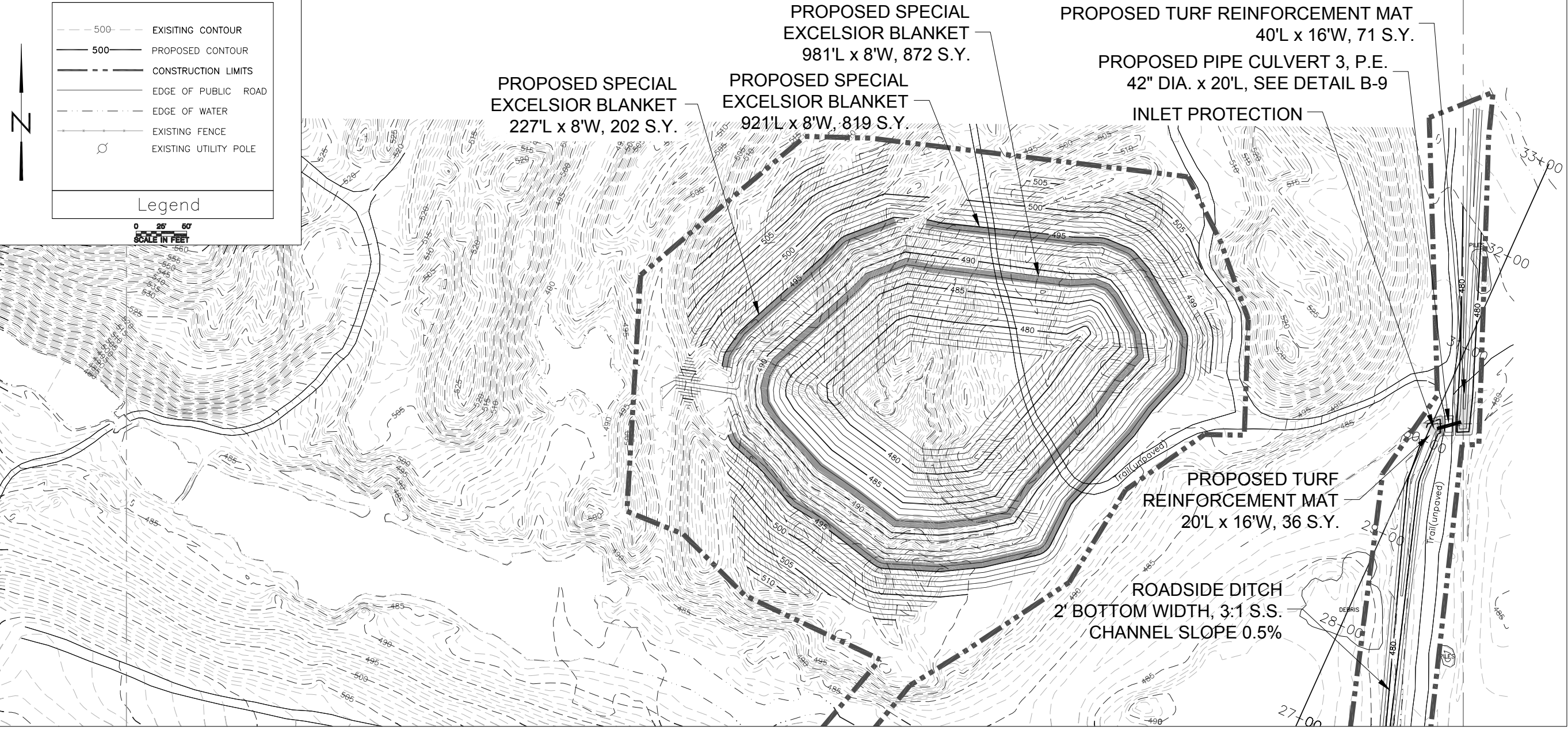
**B** TYPICAL PIPE CULVERT INSTALLATION  
NOT TO SCALE



STAPLES AND ANCHORING TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATION.



**C** TYPICAL SPECIAL EXCELSIOR BLANKET AND TRM INSTALLATION  
NOT TO SCALE










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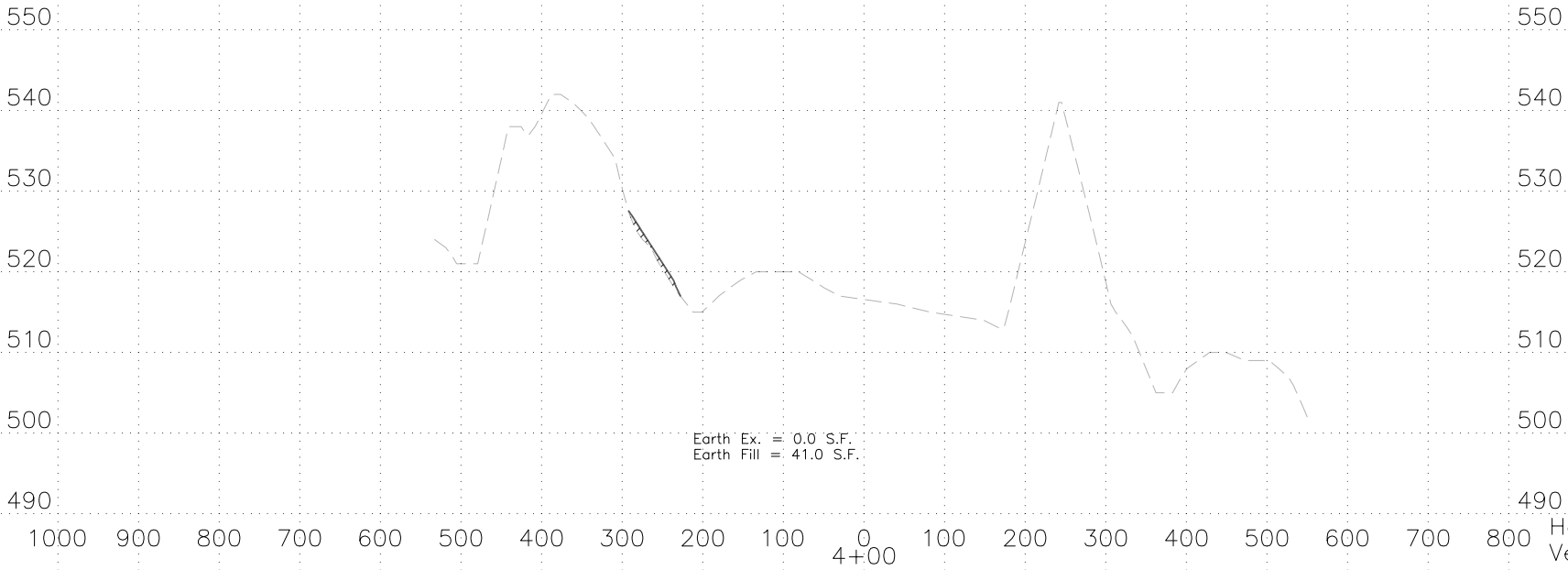
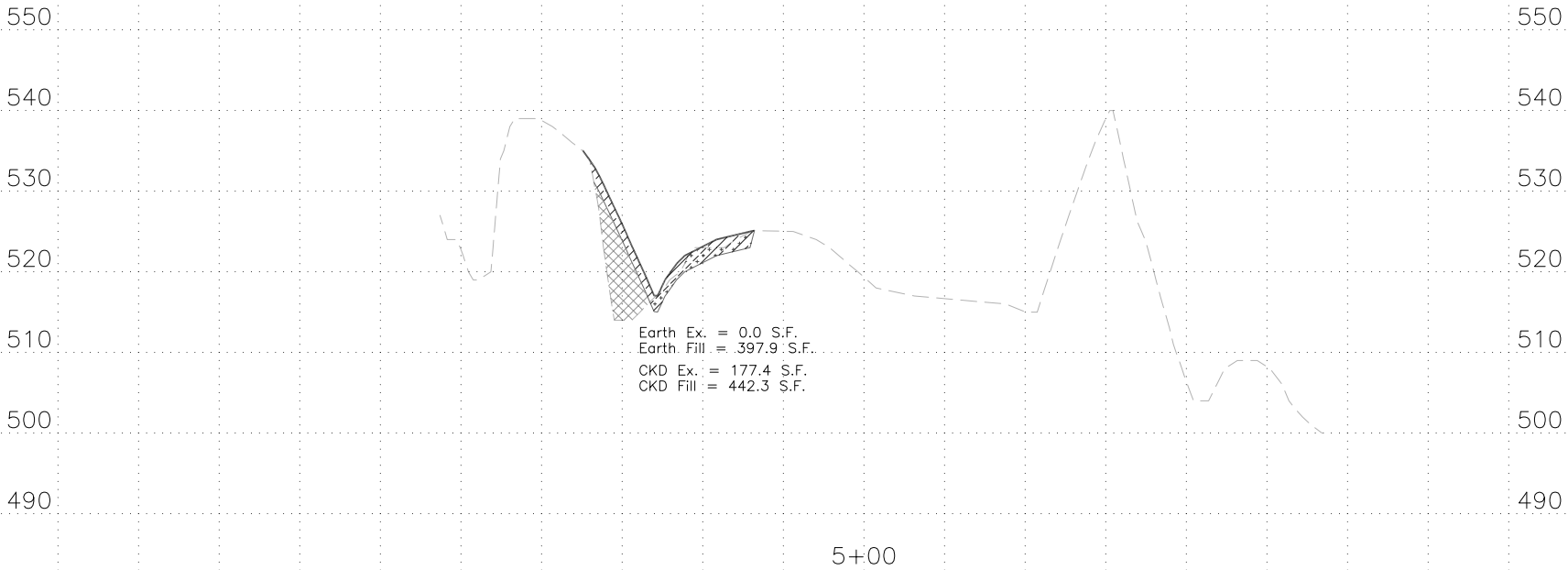
- 500 --- EXISTING CONTOUR
- 500 — PROPOSED CONTOUR
- - - - - CONSTRUCTION LIMITS
- — — — — EDGE OF PUBLIC ROAD
- - - - - EDGE OF WATER
- — — — — EXISTING FENCE
- EXISTING UTILITY POLE

0 25 50  
SCALE IN FEET

Delta Collieries North Phase II  
 Reclamation Project  
 AML-GWmE-1212  
 Williamson County








| LEGEND                                                                              |                      |
|-------------------------------------------------------------------------------------|----------------------|
|  | EXISTING GRADE       |
|  | PROPOSED SUB-GRADE   |
|  | PROPOSED GRADE       |
|  | EARTH EX. (SQ. FT.)  |
|  | EARTH FILL (SQ. FT.) |
|  | CKD EX. (SQ. FT.)    |
|  | CKD FILL (SQ. FT.)   |

Horizontal Scale 100  
 Vertical Scale 10





Delta Collieries North Phase II  
 Reclamation Project  
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




| LEGEND                                                                              |                      |
|-------------------------------------------------------------------------------------|----------------------|
|  | EXISTING GRADE       |
|  | PROPOSED SUB-GRADE   |
|  | PROPOSED GRADE       |
|  | EARTH EX. (SQ. FT.)  |
|  | EARTH FILL (SQ. FT.) |
|  | CKD EX. (SQ. FT.)    |
|  | CKD FILL (SQ. FT.)   |

Horizontal Scale 100  
 Vertical Scale 10



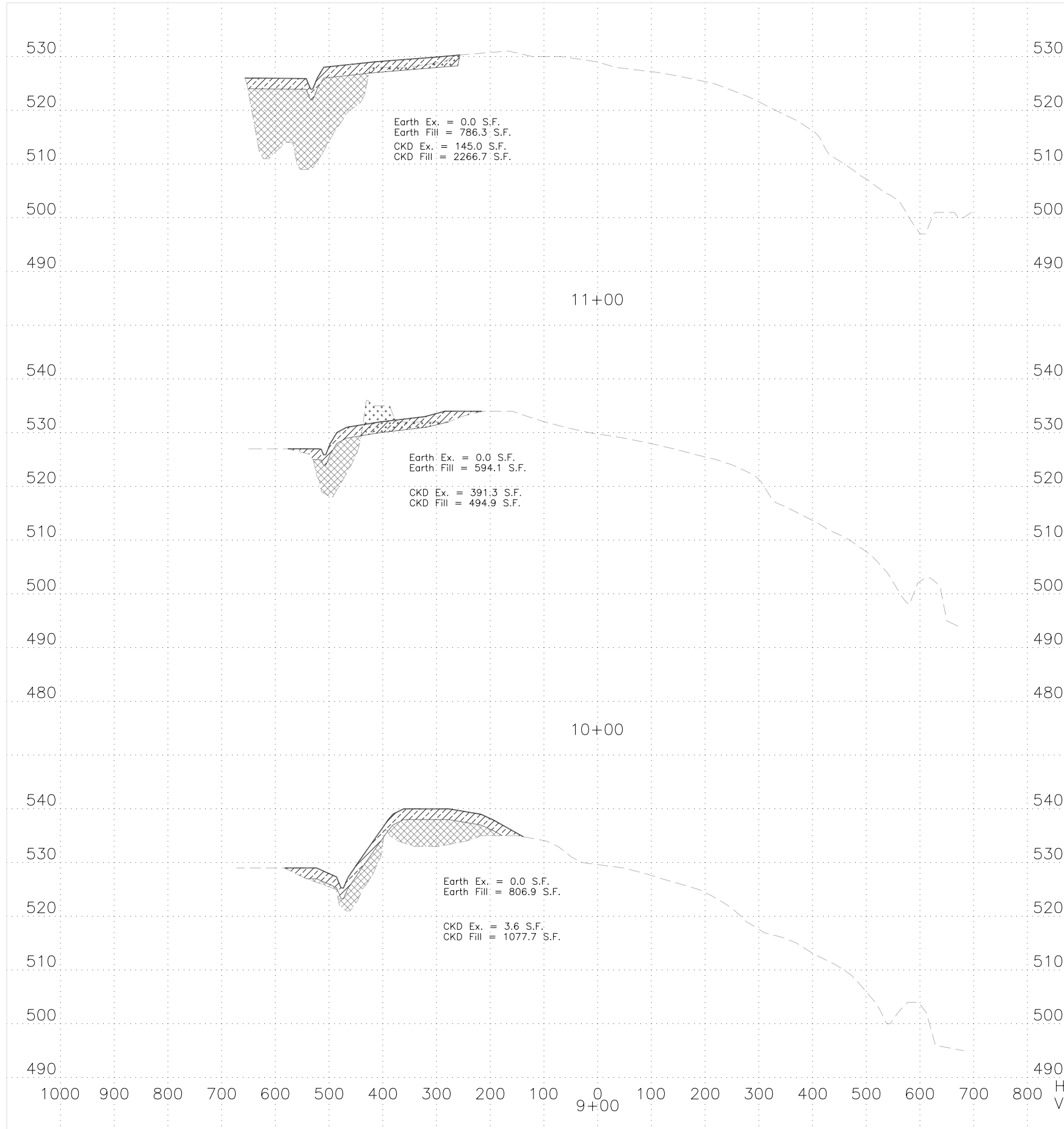
Horizontal Scale 100  
 Vertical Scale 10

Delta Collieries North Phase II  
 Reclamation Project  
 AML-GWmE-1212  
 Williamson County

| LEGEND                                                                              |                      |
|-------------------------------------------------------------------------------------|----------------------|
|  | EXISTING GRADE       |
|  | PROPOSED SUB-GRADE   |
|  | PROPOSED GRADE       |
|  | EARTH EX. (SQ. FT.)  |
|  | EARTH FILL (SQ. FT.) |
|  | CKD EX. (SQ. FT.)    |
|  | CKD FILL (SQ. FT.)   |

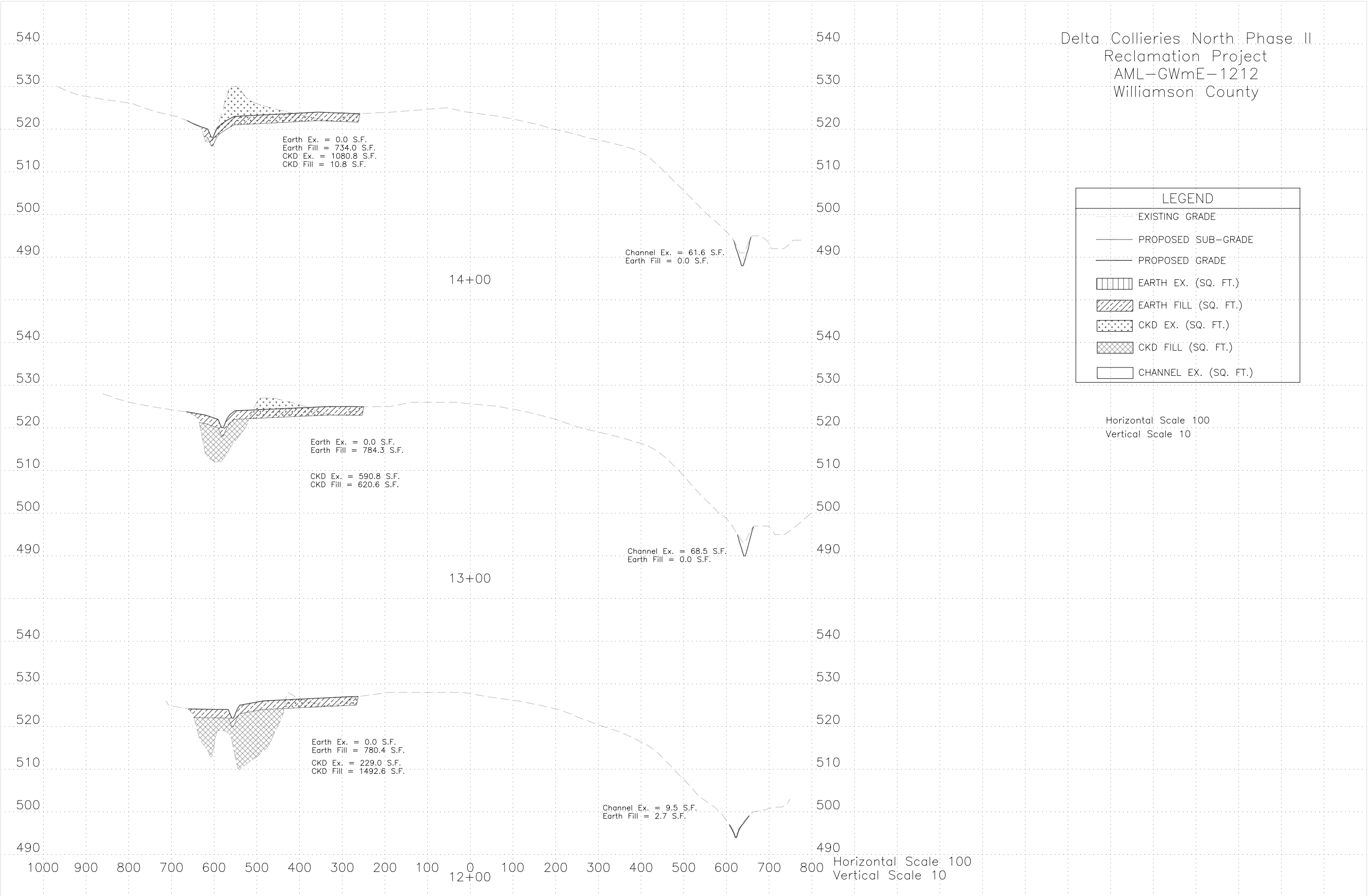
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Horizontal Scale 100  
 Vertical Scale 10













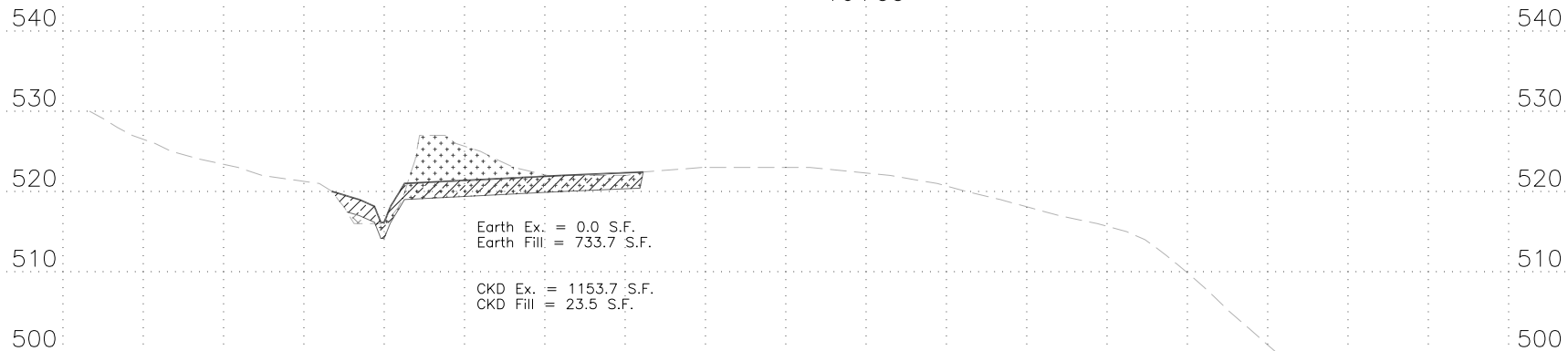
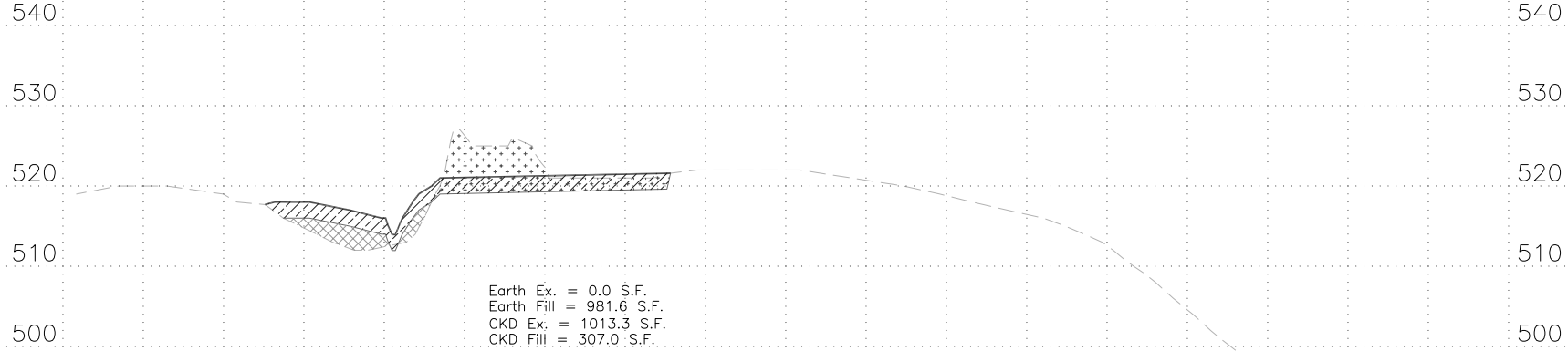
Delta Collieries North Phase II  
 Reclamation Project  
 AML-GWmE-1212  
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Delta Collieries North Phase II  
 Reclamation Project  
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 Williamson County

| LEGEND                                                                              |                       |
|-------------------------------------------------------------------------------------|-----------------------|
|  | EXISTING GRADE        |
|  | PROPOSED SUB-GRADE    |
|  | PROPOSED GRADE        |
|  | EARTH EX. (SQ. FT.)   |
|  | EARTH FILL (SQ. FT.)  |
|  | CKD EX. (SQ. FT.)     |
|  | CKD FILL (SQ. FT.)    |
|  | CHANNEL EX. (SQ. FT.) |

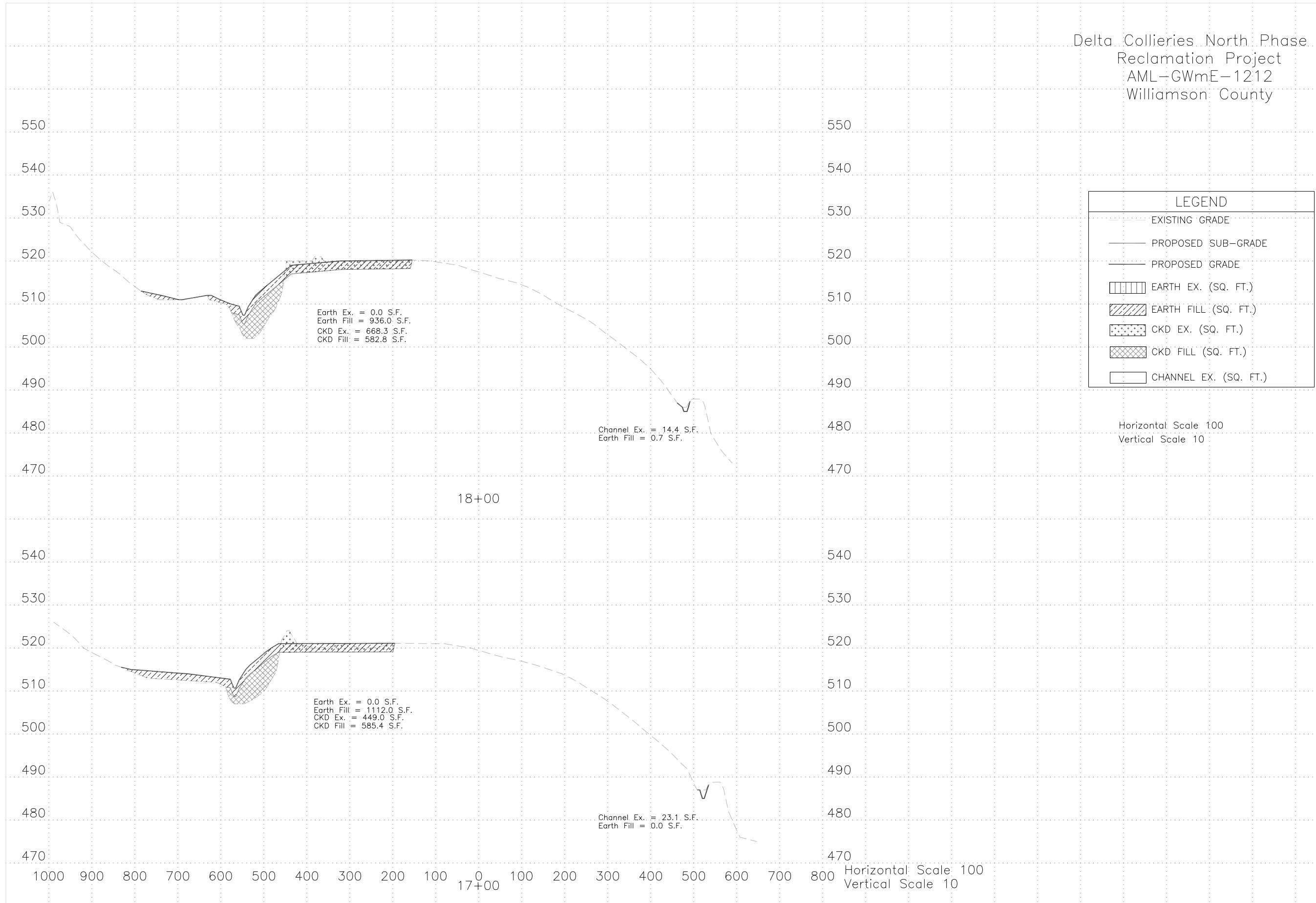
Horizontal Scale 100  
 Vertical Scale 10



Horizontal Scale 100  
 Vertical Scale 10



Delta Collieries North Phase II  
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Earth Ex. = 0.0 S.F.  
 Earth Fill = 936.0 S.F.  
 CKD Ex. = 668.3 S.F.  
 CKD Fill = 582.8 S.F.

Channel Ex. = 14.4 S.F.  
 Earth Fill = 0.7 S.F.

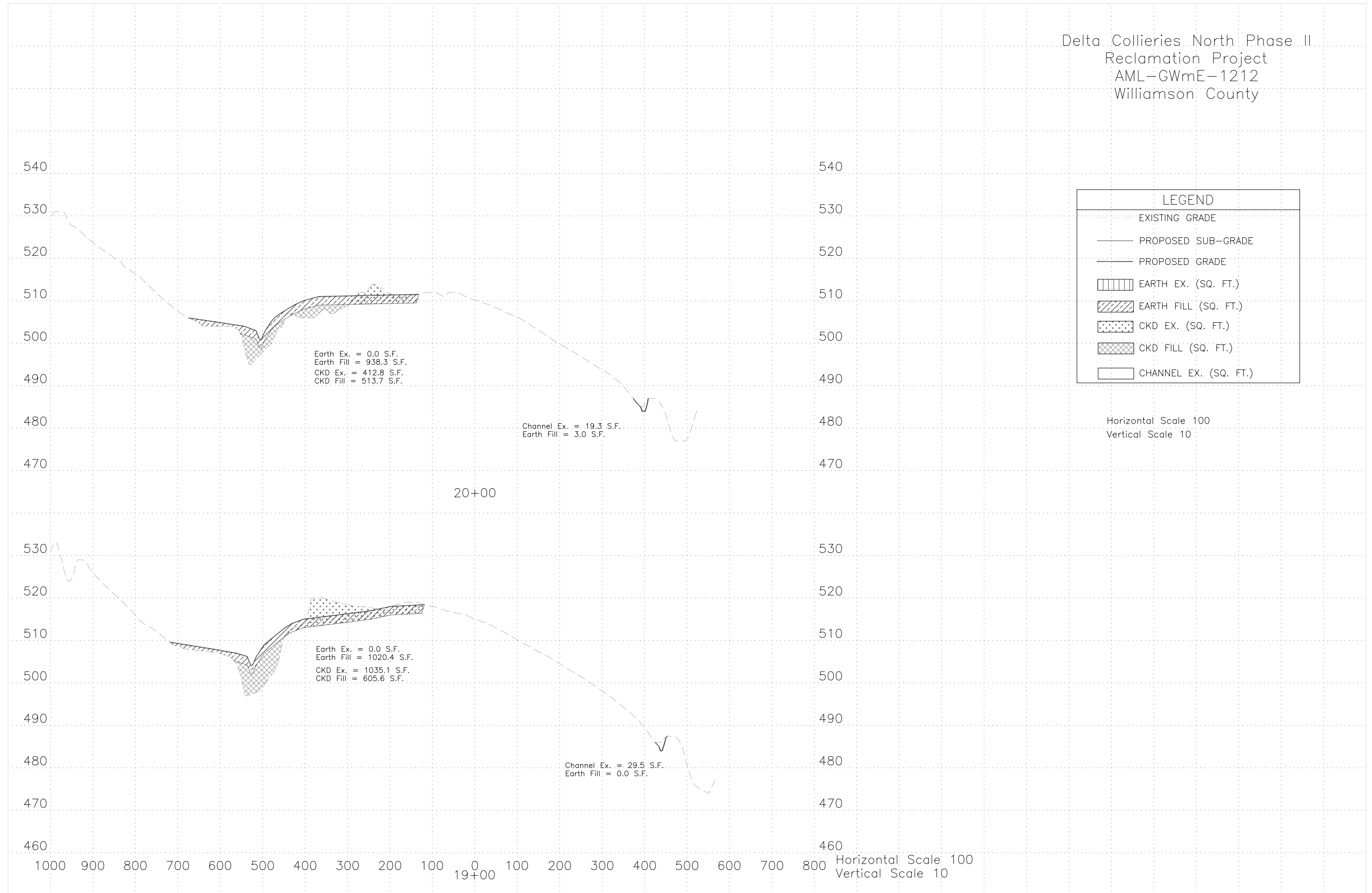
18+00

Earth Ex. = 0.0 S.F.  
 Earth Fill = 1112.0 S.F.  
 CKD Ex. = 449.0 S.F.  
 CKD Fill = 585.4 S.F.

Channel Ex. = 23.1 S.F.  
 Earth Fill = 0.0 S.F.









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Delta Collieries North Phase II  
 Reclamation Project  
 AML-GWmE-1212  
 Williamson County

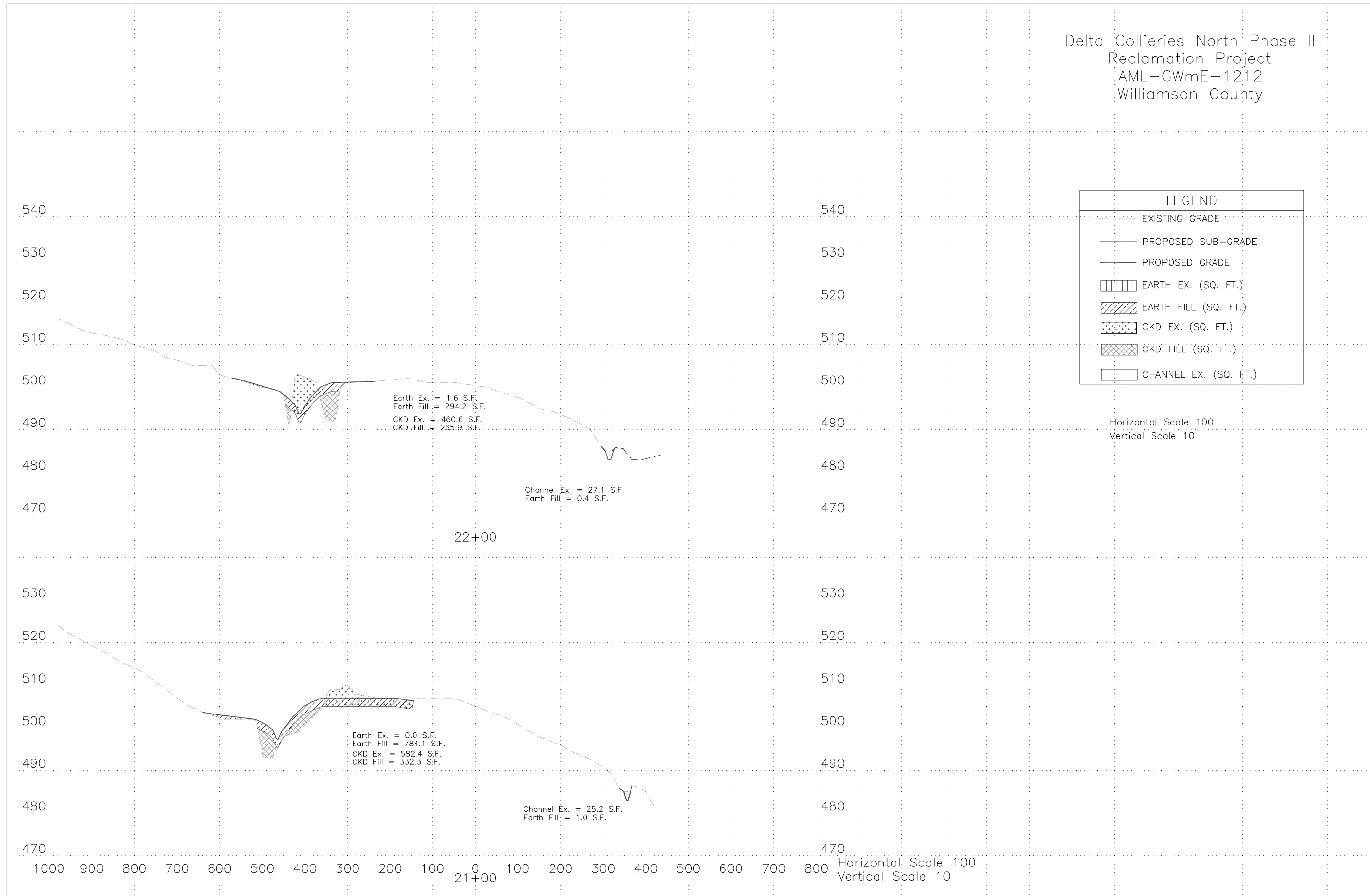




Delta Collieries North Phase II  
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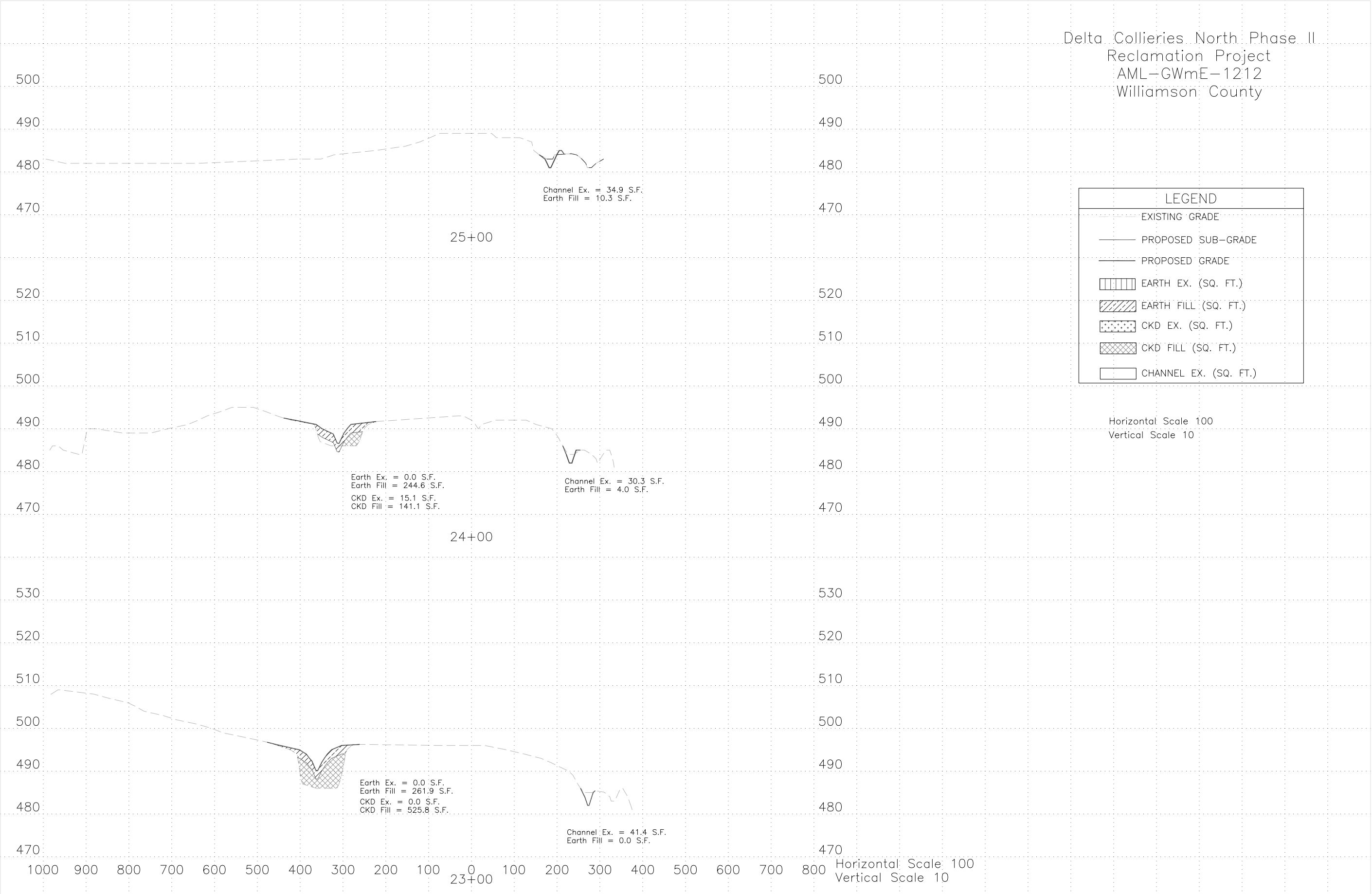
| LEGEND                                                                              |                       |
|-------------------------------------------------------------------------------------|-----------------------|
|  | EXISTING GRADE        |
|  | PROPOSED SUB-GRADE    |
|  | PROPOSED GRADE        |
|  | EARTH EX. (SQ. FT.)   |
|  | EARTH FILL (SQ. FT.)  |
|  | CKD EX. (SQ. FT.)     |
|  | CKD FILL (SQ. FT.)    |
|  | CHANNEL EX. (SQ. FT.) |

Horizontal Scale 100  
 Vertical Scale 10



Horizontal Scale 100  
 Vertical Scale 10

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



| LEGEND |                       |
|--------|-----------------------|
|        | EXISTING GRADE        |
|        | PROPOSED SUB-GRADE    |
|        | PROPOSED GRADE        |
|        | EARTH EX. (SQ. FT.)   |
|        | EARTH FILL (SQ. FT.)  |
|        | CKD EX. (SQ. FT.)     |
|        | CKD FILL (SQ. FT.)    |
|        | CHANNEL EX. (SQ. FT.) |

Horizontal Scale 100  
 Vertical Scale 10

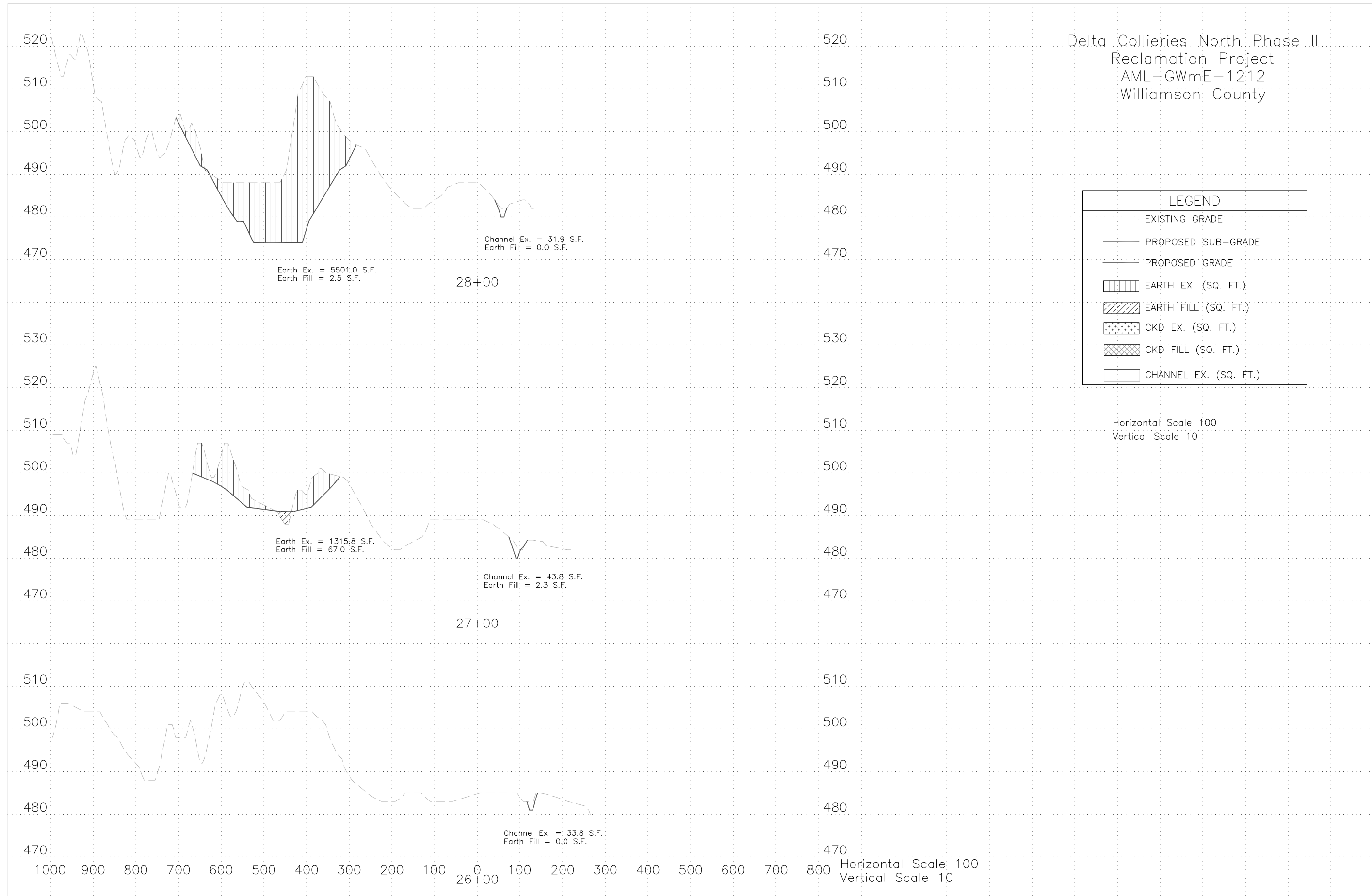
Horizontal Scale 100  
 Vertical Scale 10











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| LEGEND                                                                              |                       |
|-------------------------------------------------------------------------------------|-----------------------|
|  | EXISTING GRADE        |
|  | PROPOSED SUB-GRADE    |
|  | PROPOSED GRADE        |
|  | EARTH EX. (SQ. FT.)   |
|  | EARTH FILL (SQ. FT.)  |
|  | CKD EX. (SQ. FT.)     |
|  | CKD FILL (SQ. FT.)    |
|  | CHANNEL EX. (SQ. FT.) |

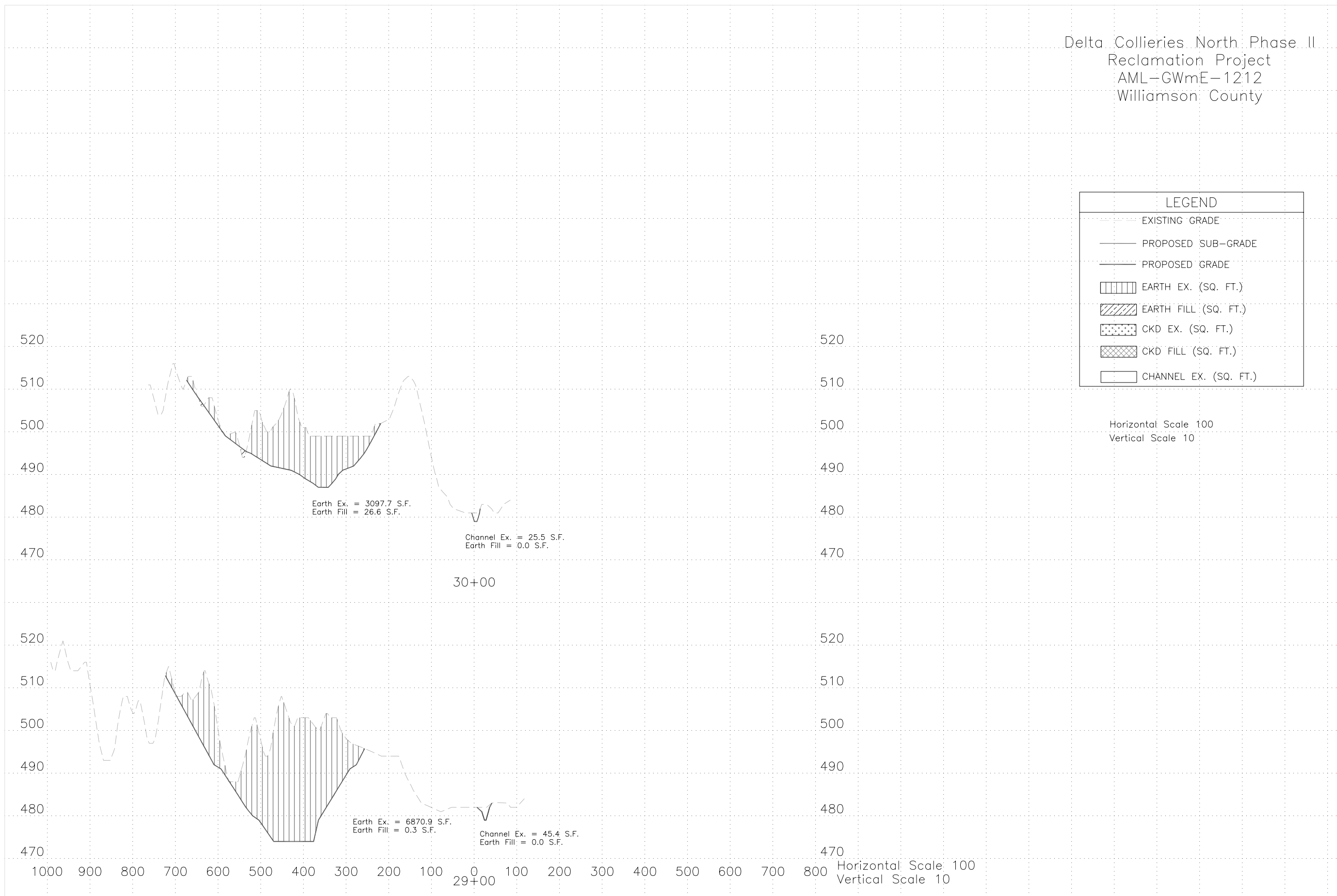
Horizontal Scale 100  
 Vertical Scale 10



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



| LEGEND                                                                              |                       |
|-------------------------------------------------------------------------------------|-----------------------|
|  | EXISTING GRADE        |
|  | PROPOSED SUB-GRADE    |
|  | PROPOSED GRADE        |
|  | EARTH EX. (SQ. FT.)   |
|  | EARTH FILL (SQ. FT.)  |
|  | CKD EX. (SQ. FT.)     |
|  | CKD FILL (SQ. FT.)    |
|  | CHANNEL EX. (SQ. FT.) |

Horizontal Scale 100  
 Vertical Scale 10



Horizontal Scale 100  
 Vertical Scale 10

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| LEGEND                                                                              |                       |
|-------------------------------------------------------------------------------------|-----------------------|
|  | EXISTING GRADE        |
|  | PROPOSED SUB-GRADE    |
|  | PROPOSED GRADE        |
|  | EARTH EX. (SQ. FT.)   |
|  | EARTH FILL (SQ. FT.)  |
|  | CKD EX. (SQ. FT.)     |
|  | CKD FILL (SQ. FT.)    |
|  | CHANNEL EX. (SQ. FT.) |

Horizontal Scale 100  
 Vertical Scale 10

