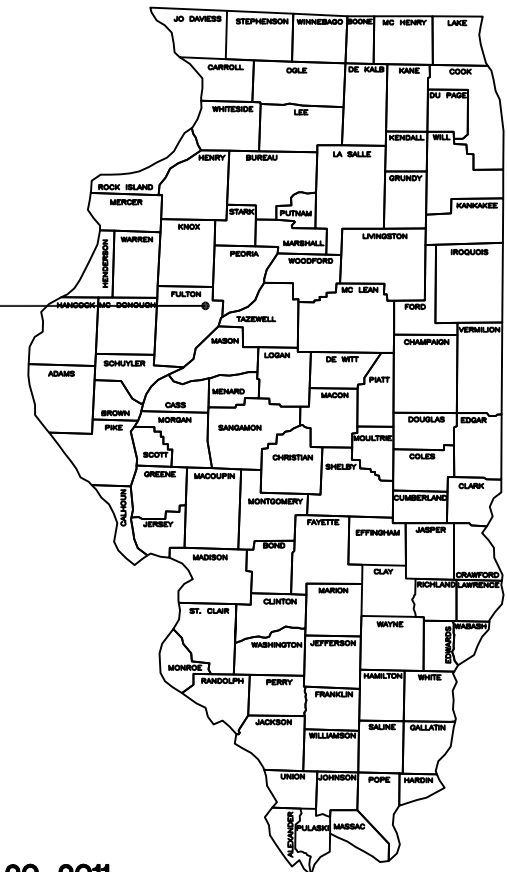


**State of Illinois**  
**Department of Natural Resources**  
**Office of Mines and Minerals**  
**Division of Abandoned Mined Lands**

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

**Parson's Property, Phase II**  
**Reclamation Project**  
**AML-GFuE-1007**  
**Fulton County**  
**1LR**

Parson's Property  
 Fulton County



**Pre-Bid Meeting:**


A Pre-Bid meeting is scheduled for this project at 9:00 A.M., Wednesday, April 20, 2011, at the Parson's Project Site.

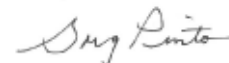
**Certified Copy**


**SCHEDULE OF DRAWINGS:**


1. Cover Sheet
2. Summary of Quantities/General Notes and Location Map
3. Site Access
4. Proposed Plan
- 5-10. Cross Sections
11. Upstream End Section Detail
12. Downstream End Section Detail
13. Culvert Backfill Detail/Riprap Detail

**Prepared By IDNR Staff**

Approved for Bidding:  
  
 Joseph R. Angleton, Director  
 Office of Mines and Minerals

Approved By:  
  
 Greg Pinto, Acting Manager  
 AML Division

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



**Summary of Quantities**

#	Item	Section	Quantity	Unit	Rates/Remarks
1	Special Clearing	201	1	L.S.	
2	Earth Excavation	202	528	C.Y.	
3	Porous Granular Backfill	IDOT 209	226	C.Y.	CA-6 or CA-10
4	Rockfill-Foundation	215	201	Ton	
5	Seeding	250	0.7	Acre	
6	Nitrogen Fertilizer Nutrient	250	84	Pound	120 lbs./Acre
7	Phosphorous Fertilizer Nutrient	250	70	Pound	100 lbs./Acre
8	Potassium Fertilizer Nutrient	250	245	Pound	350 lbs./Acre
9	Agricultural Ground Limestone	250	1.4	Ton	2 Tons/Acre
10	Mulch, Method 2, Procedure 1	IDOT 251	0.7	Acre	
11	Stone Riprap, A-5	IDOT 281	204	S.Y.	
12	Filter Fabric	IDOT 282	204	S.Y.	
13	Special Excelsior Blanket	286	458	S.Y.	
14	Aggregate Surface Course, Type B, CA-6	IDOT 402	300	Ton	For repair of access road
15	Precast Concrete Box Culvert, 8'x6'	IDOT 540	120	Foot	
16	Box Culvert End Sections	IDOT 540	2	Each	
17	Mobilization (Max. 6% of Bid)	671	1	L.S.	

**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.

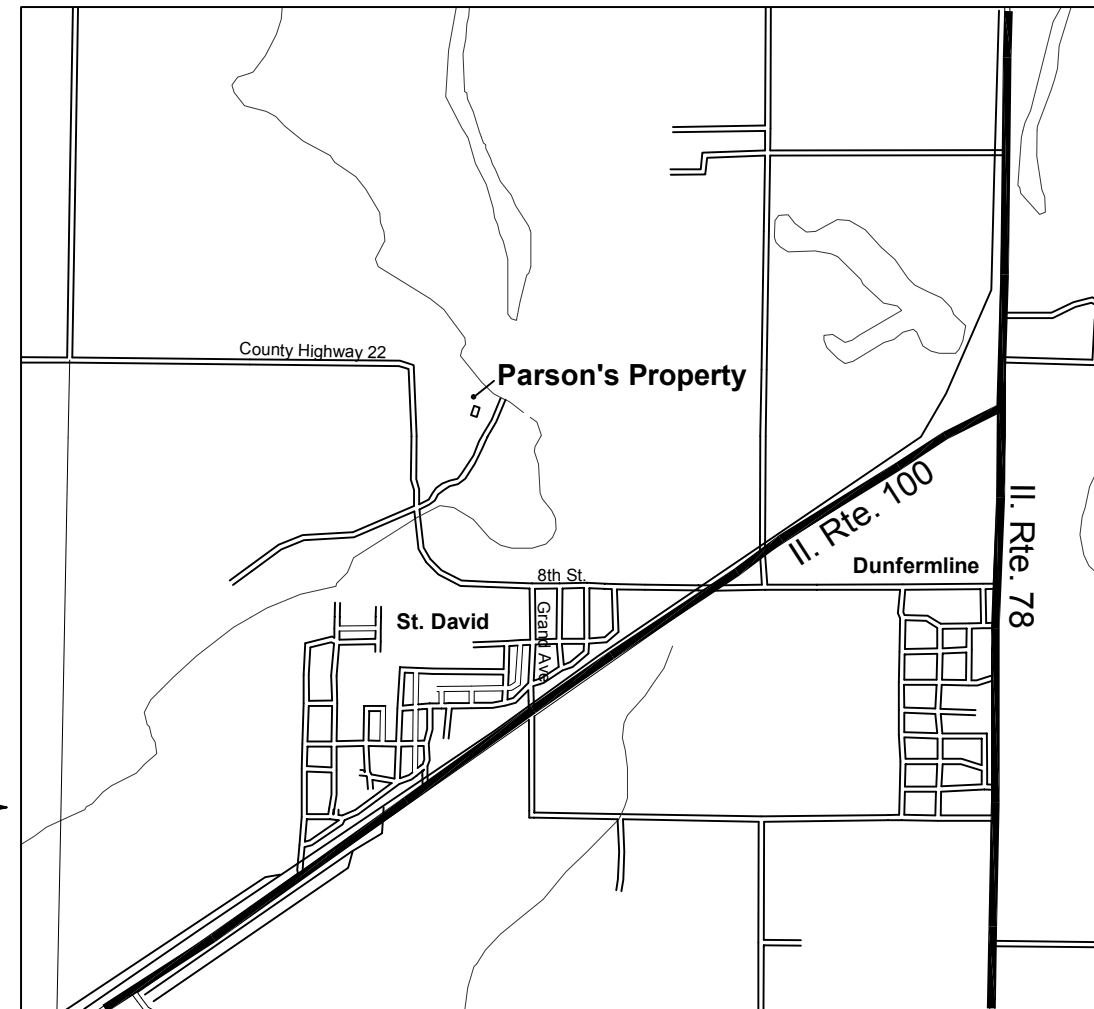
**CONSTRUCTION NOTES**

**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.

**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.



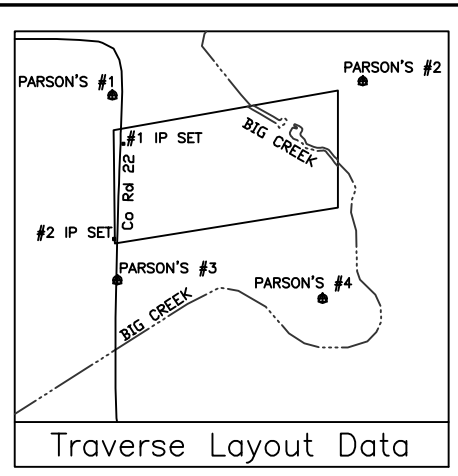
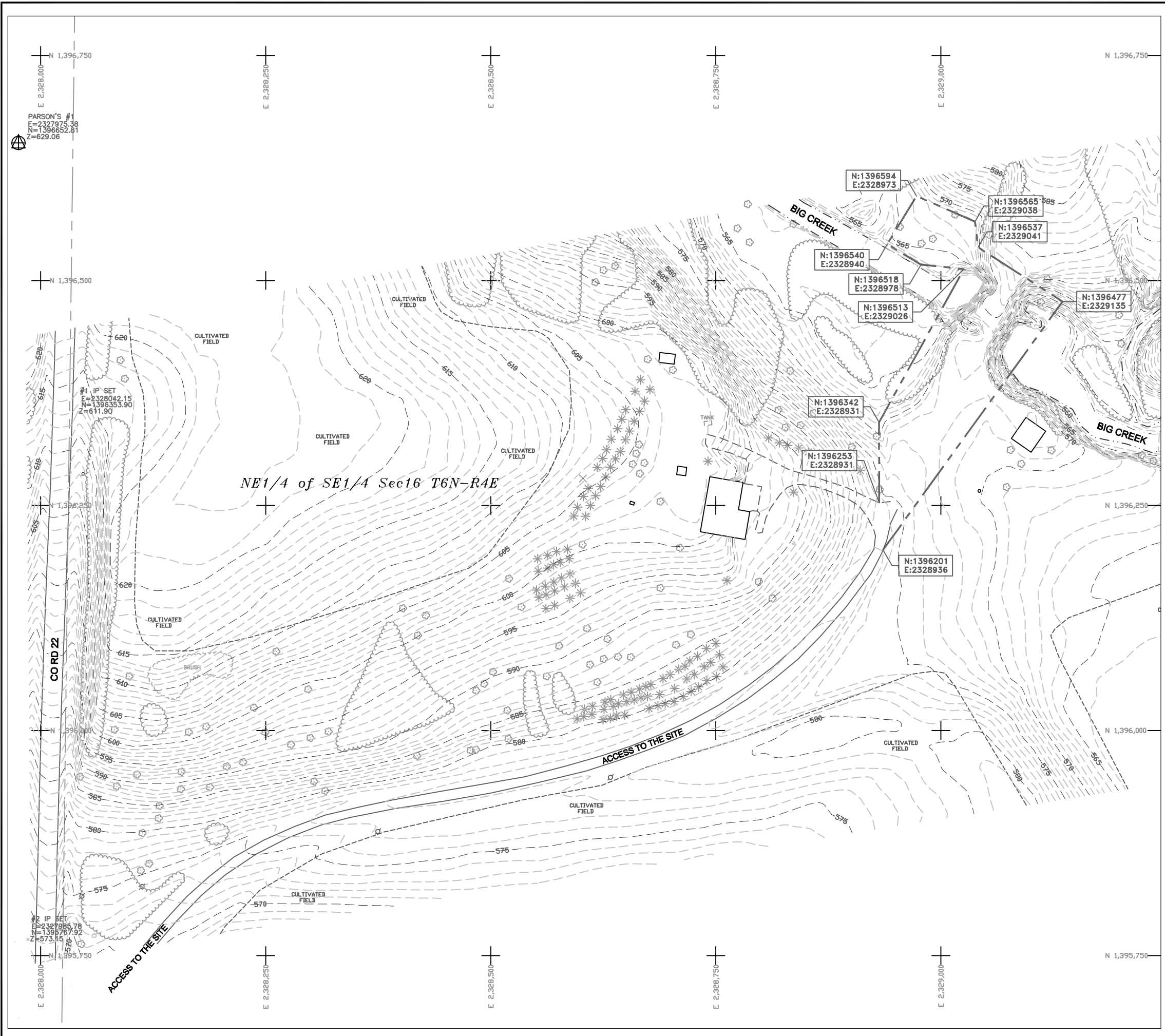
**St. David Area Location Map**

State of Illinois  
Department of Natural Resources

Parson's Property, Phase II  
Reclamation Project  
AML-GFuE-1007  
Fulton County

Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
T.M.: \_\_\_\_\_  
Date: 3/28/2011

Summary of Quantities/  
General Notes/Location Map  
Sheet  
2 of 13



Legend

- 400 --- EXISTING CONTOUR
- CONSTRUCTION LIMITS
- EDGE OF ROAD
- TREELINE
- EDGE OF WATER
- SURVEY CONTROL POINT

Legend

Parsons Property

North Arrow

0 60 100  
SCALE IN FEET

Drawn By: \_\_\_\_\_ Date: 3/4/2011

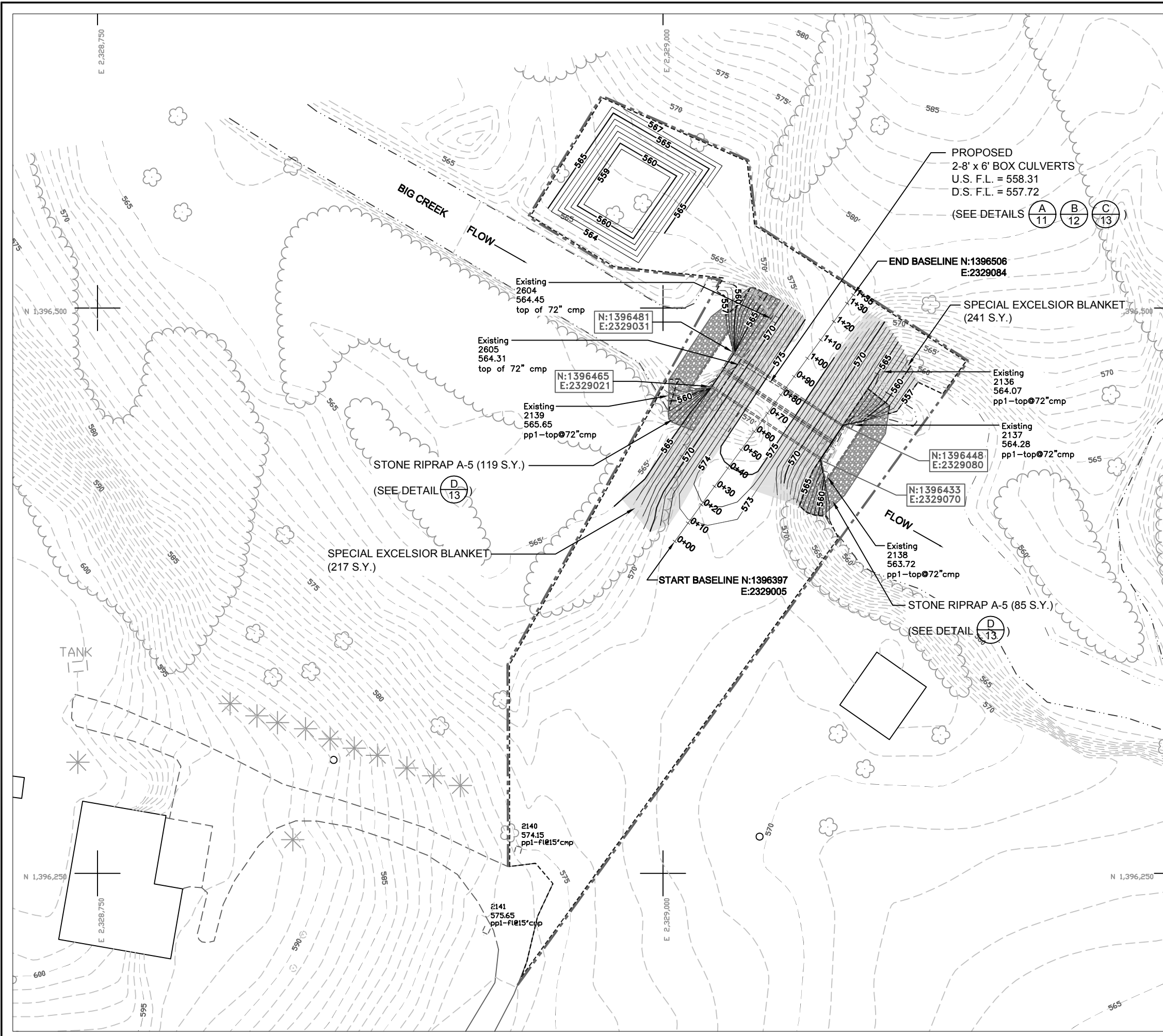
Checked By: \_\_\_\_\_

State of Illinois  
Department of Natural Resources

Parsons Property, Phase II  
Reclamation Project  
AML-GFUE-1007  
Fulton County

Site Access

Sheet 3 of 13



PROPOSED  
2-8' x 6' BOX CULVERTS  
U.S. F.L. = 558.31  
D.S. F.L. = 557.72  
(SEE DETAILS (A) (B) (C)  
11 12 13)

END BASELINE N:1396506  
E:2329084

SPECIAL EXCELSIOR BLANKET  
(241 S.Y.)

Existing  
2136  
564.07  
pp1-top@72"cmp

Existing  
2137  
564.28  
pp1-top@72"cmp

N:1396448  
E:2329080

N:1396433  
E:2329070

Existing  
2138  
563.72  
pp1-top@72"cmp

STONE RIPRAP A-5 (85 S.Y.)  
(SEE DETAIL (D) 13)

Existing  
2604  
564.45  
top of 72" cmp  
N:1396481  
E:2329031

Existing  
2605  
564.31  
top of 72" cmp  
N:1396465  
E:2329021

Existing  
2139  
565.65  
pp1-top@72"cmp

STONE RIPRAP A-5 (119 S.Y.)  
(SEE DETAIL (D) 13)

SPECIAL EXCELSIOR BLANKET  
(217 S.Y.)

START BASELINE N:1396397  
E:2329005

Existing  
2140  
574.15  
pp1-fl@15'cmp

Existing  
2141  
575.65  
pp1-fl@15'cmp

**SPECIAL NOTES:**

- ALL THREE EXISTING PIPE CULVERTS TO BE REMOVED AND DISPOSED OF OFFSITE AS APPROVED OF BY PROJECT ENGINEER. ALL COST ASSOCIATED WITH THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- ALL WORK REQUIRED TO DIVERT WATER FLOW FROM THE CONSTRUCTION AREA IN ACCORD WITH 540.04 SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE FOR PRECAST CONCRETE BOX CULVERT.
- ALL WORK TO PROVIDE TEMPORARY STREAM CROSSINGS AND IN STREAM WORK PADS SHALL BE IN ACCORD WITH 616 AND SHALL BE INCIDENTAL TO THE CONTRACT PRICE FOR PRECAST CONCRETE BOX CULVERT.

	EXISTING CONTOUR
	PROPOSED CONTOUR
	CONSTRUCTION LIMITS
	SEEDING LIMITS
	EDGE OF ROAD
	TREELINE
	EDGE OF WATER
	SURVEY CONTROL POINT

Legend

**Parsons Property**

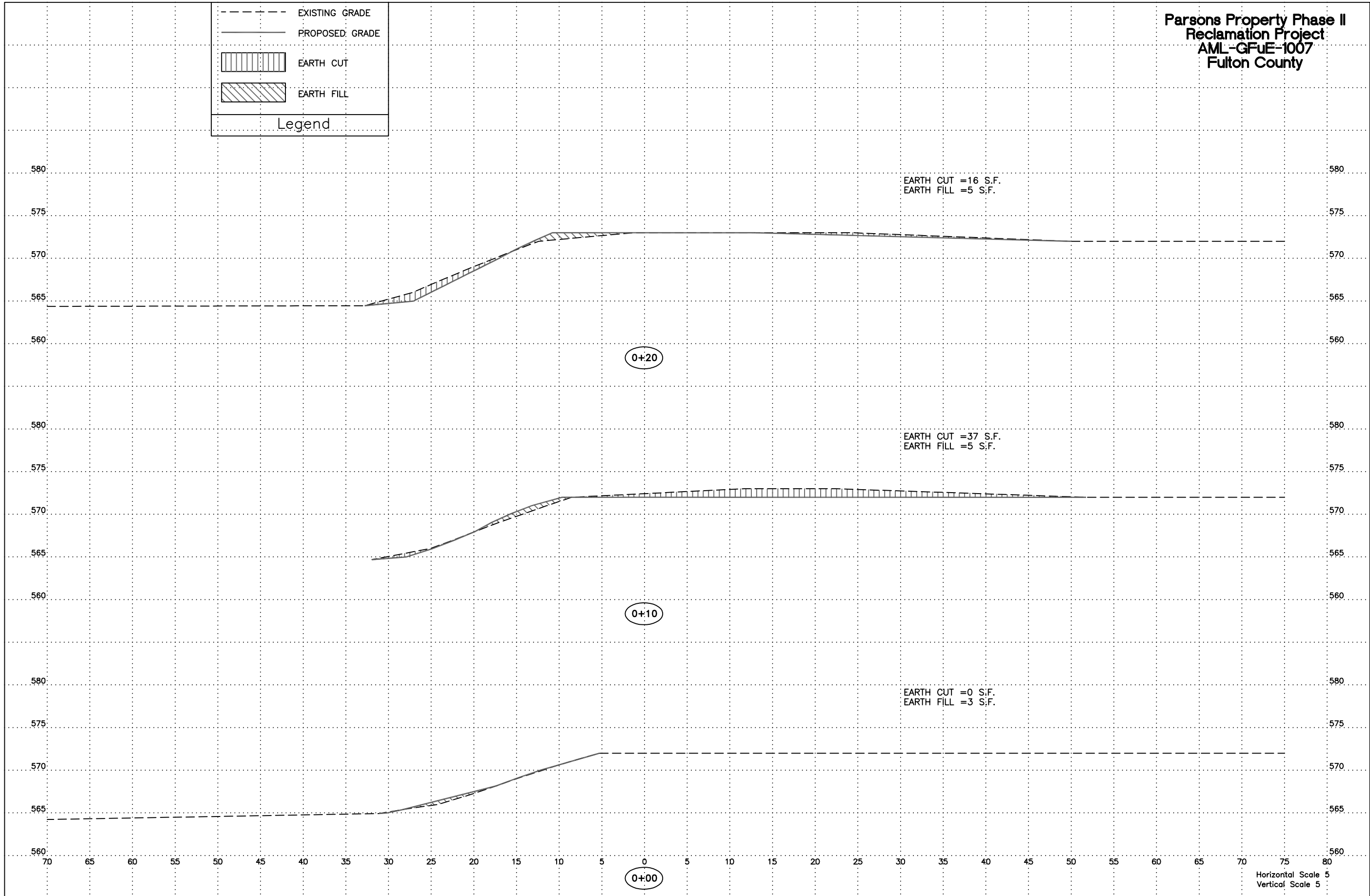
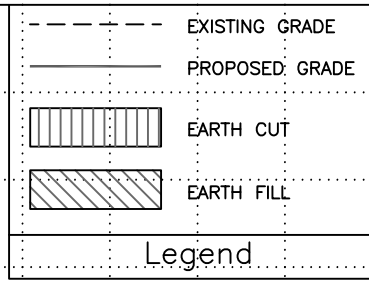
SCALE IN FEET

State of Illinois  
Department of Natural Resources

Parsons Property Phase II  
Reclamation Project  
AML-GFUE-1007  
Fulton County

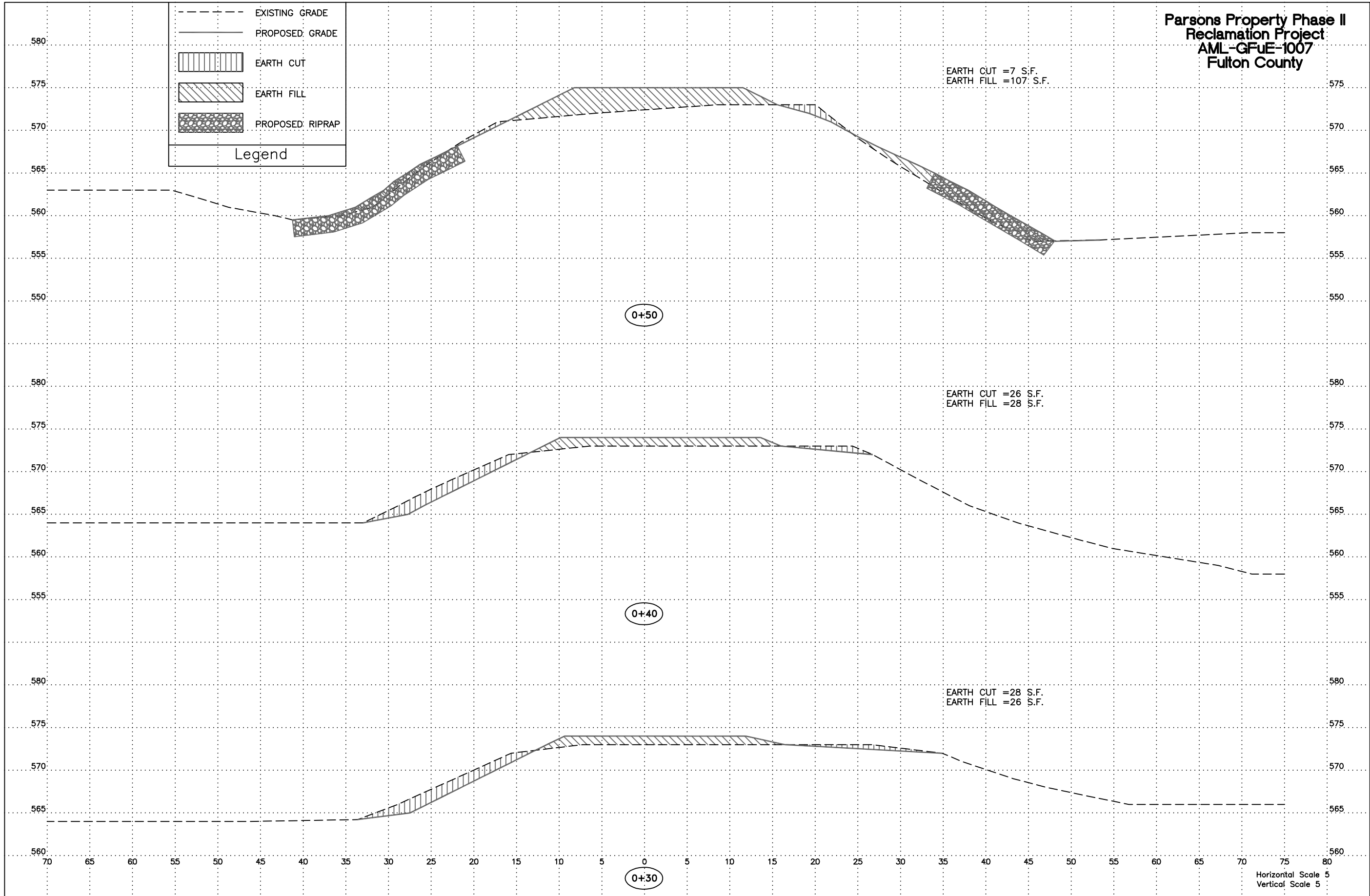
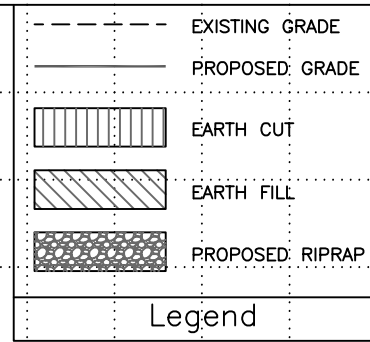
Drawn By: \_\_\_\_\_ V.P. \_\_\_\_\_  
Checked By: \_\_\_\_\_ Date: 3/29/2011

Proposed Plan  
Sheet  
4 of 13

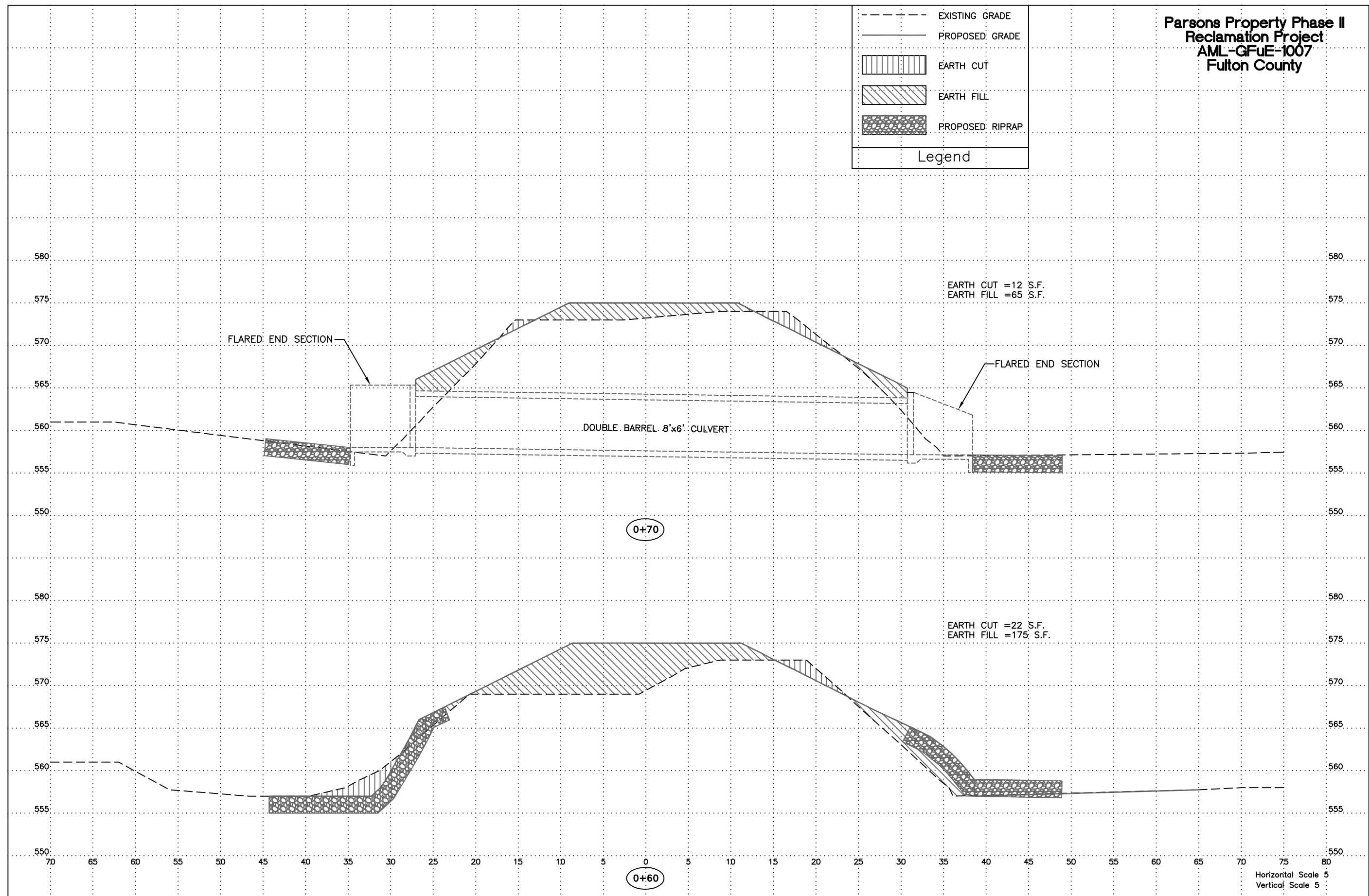
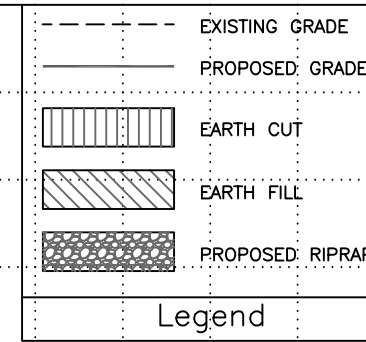


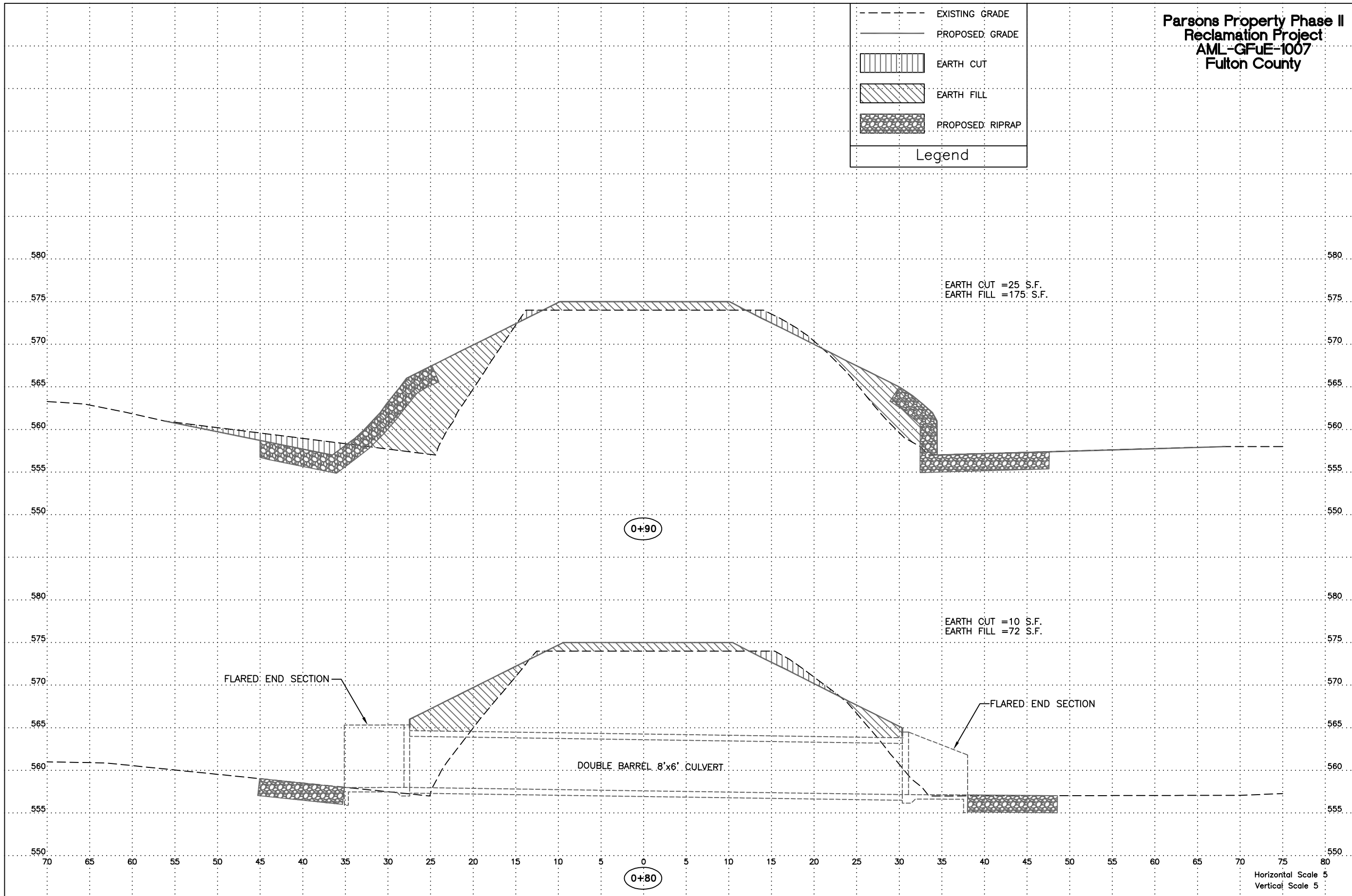
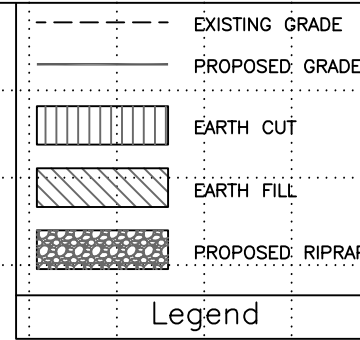
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 Vertical Scale 5

Parsons Property Phase II  
 Reclamation Project  
 AML-GFUE-1007  
 Fulton County



Horizontal Scale 5  
 Vertical Scale 5

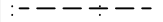


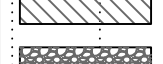
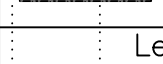


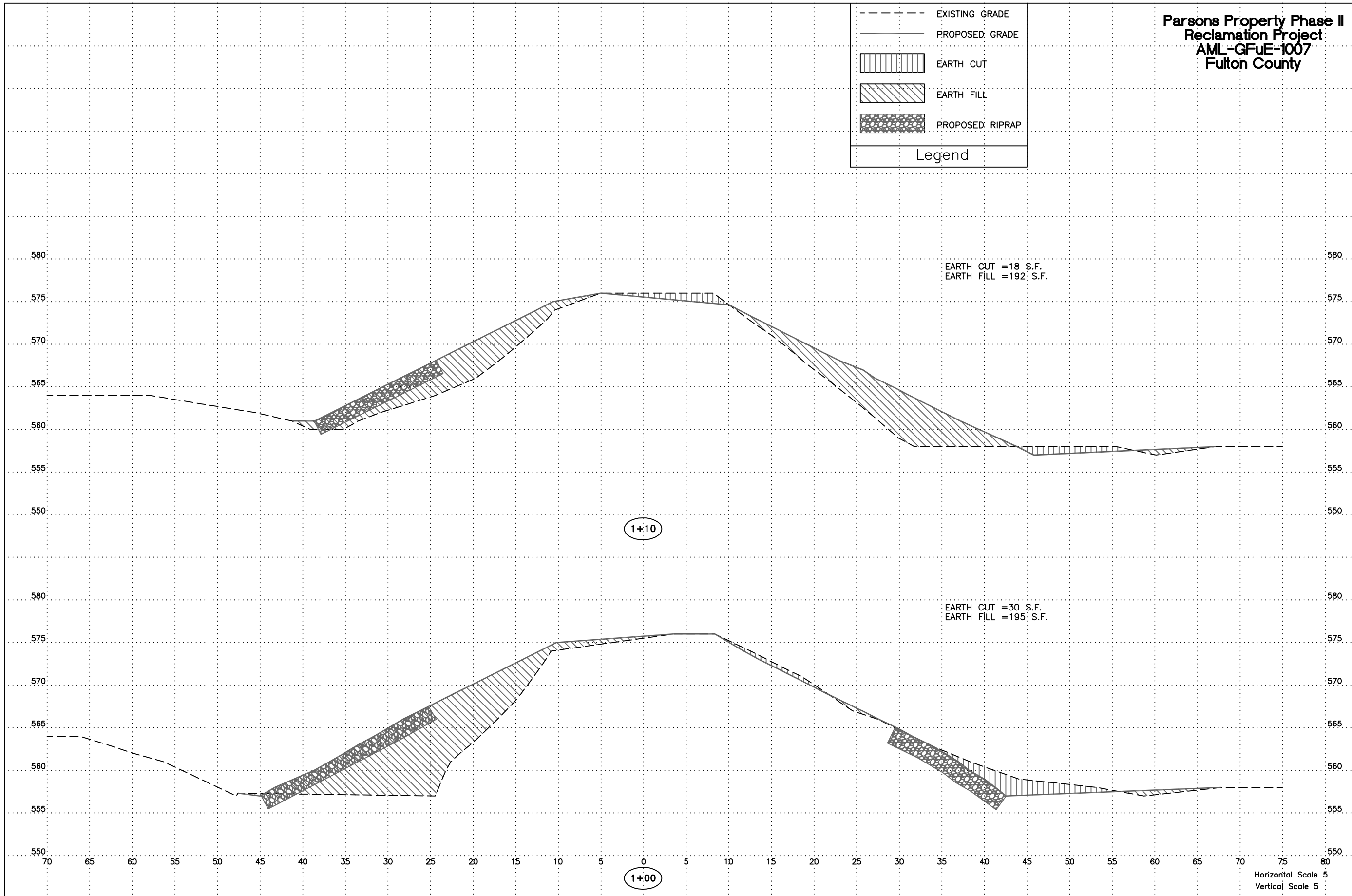


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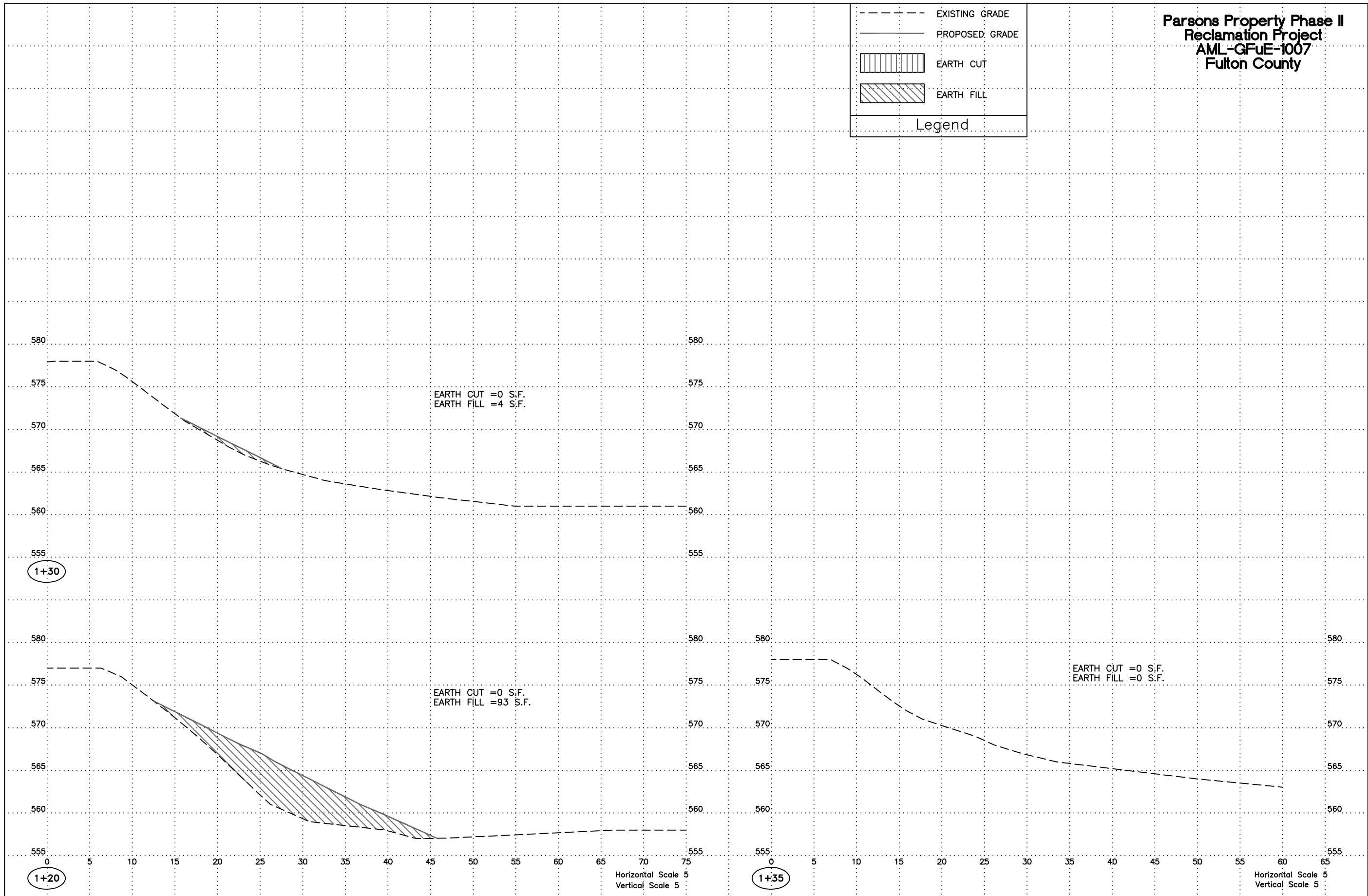
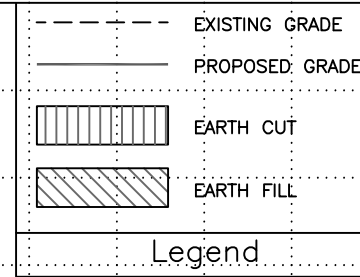


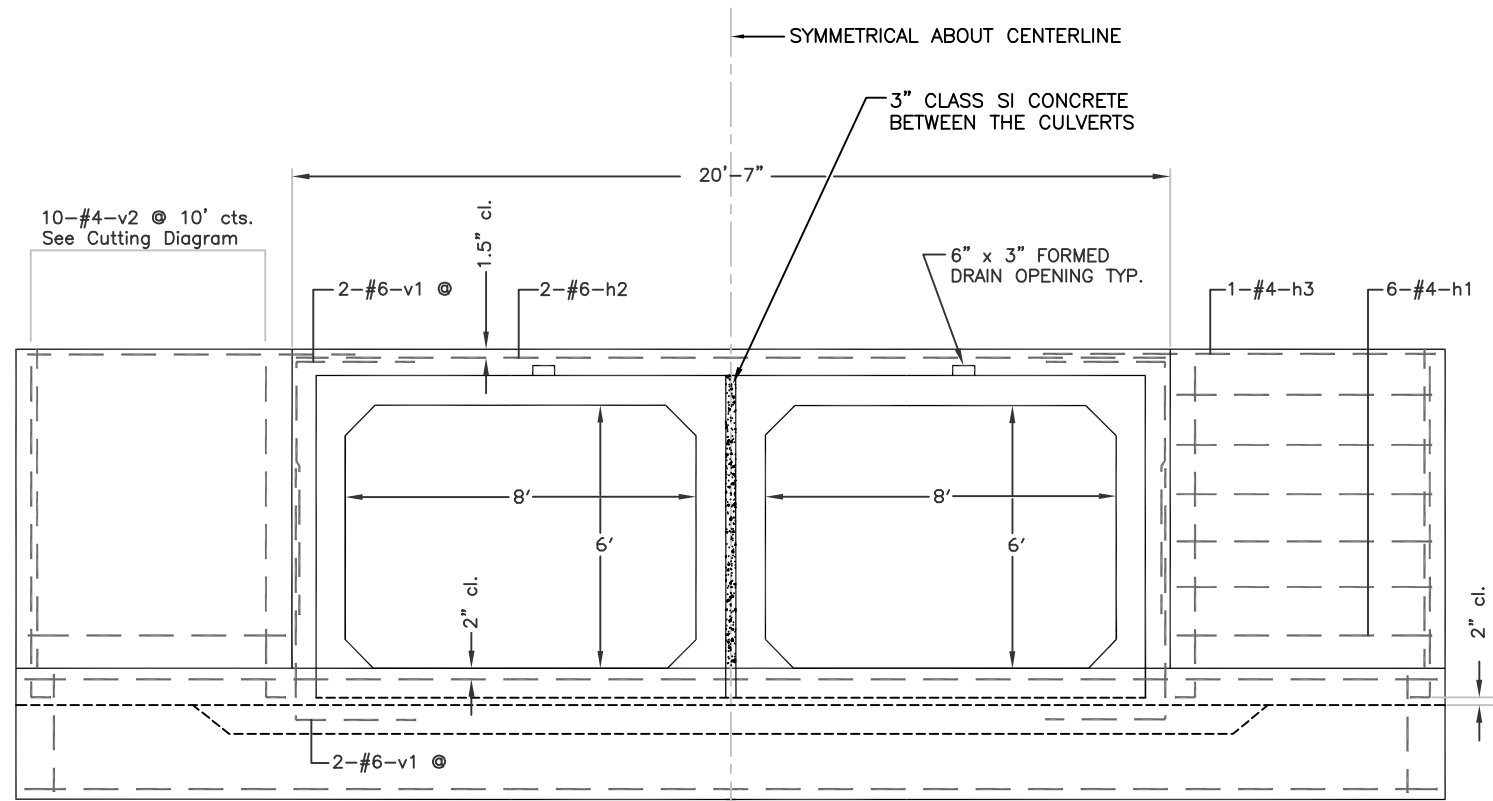
**Parsons Property Phase II  
Reclamation Project  
AML-GFUE-1007  
Fulton County**

	EXISTING GRADE
	PROPOSED GRADE
	EARTH CUT
	EARTH FILL
	PROPOSED RIPRAP
Legend	

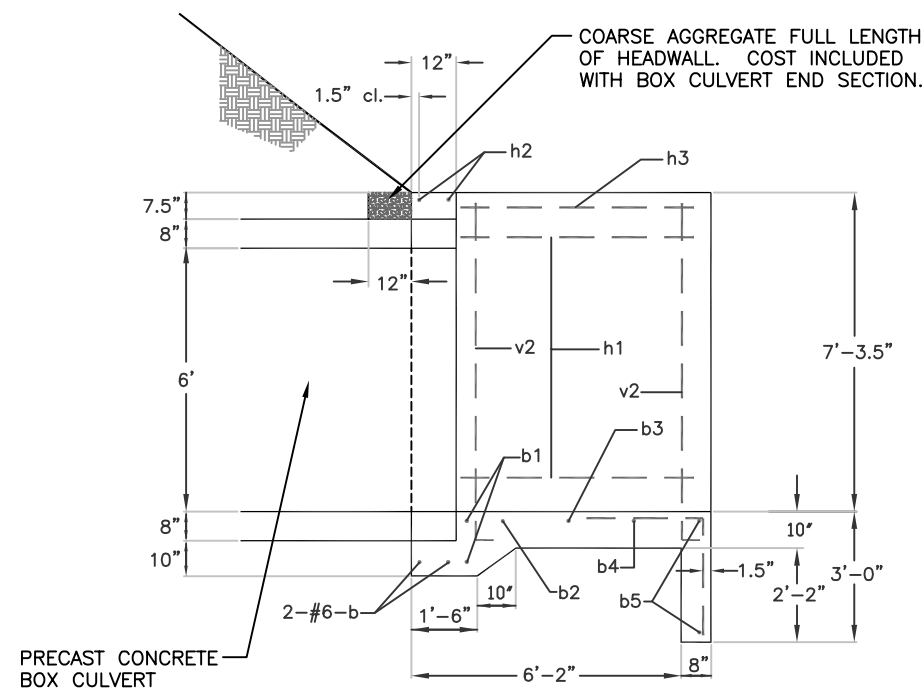


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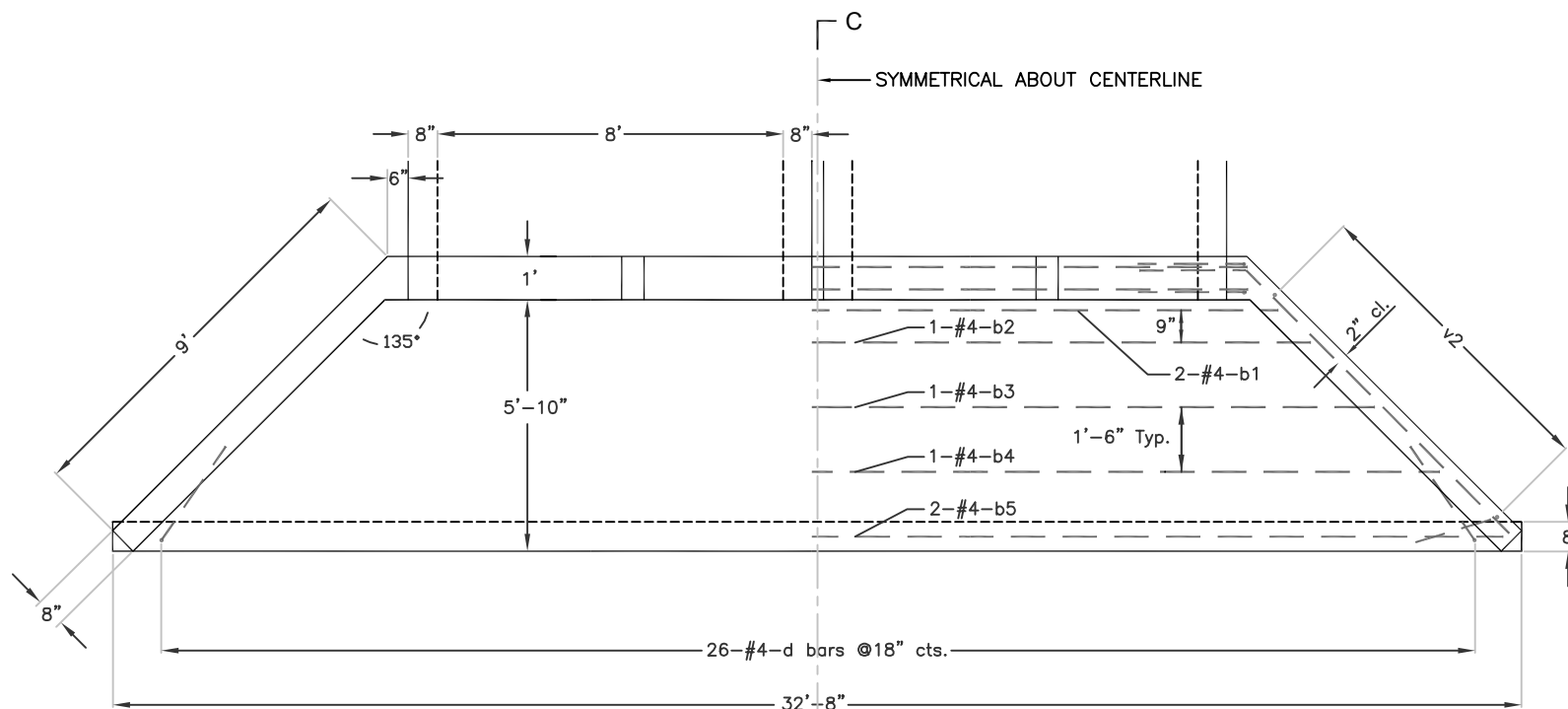




**END ELEVATION**



**SECTION C-C**



SHOWING DIMENSIONS

SHOWING REINFORCEMENTS

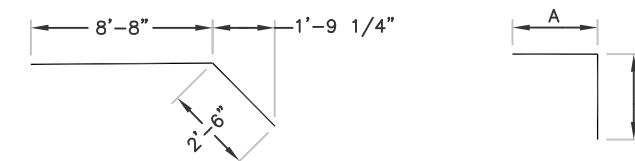
**PLAN**

**A**  
**11** UPSTREAM END SECTION DETAIL  
NOT TO SCALE

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
b	2	#6	19'-6"	—
b1	2	#4	21'-8"	—
b2	1	#4	23'-2"	—
b3	1	#4	26'-2"	—
b4	1	#4	29'-2"	—
b5	2	#4	32'-2"	—
d	22	#4	5'-4"	┘
h1	12	#4	8'-8"	—
h2	2	#6	19'-7"	—
h3	2	#4	11'-2"	—
v1	8	#6	7'-9"	┘
v2	20	#4	9'-9"	┘
Reinforcement Bars			Pound	628
Box Culvert End Section			Each	1

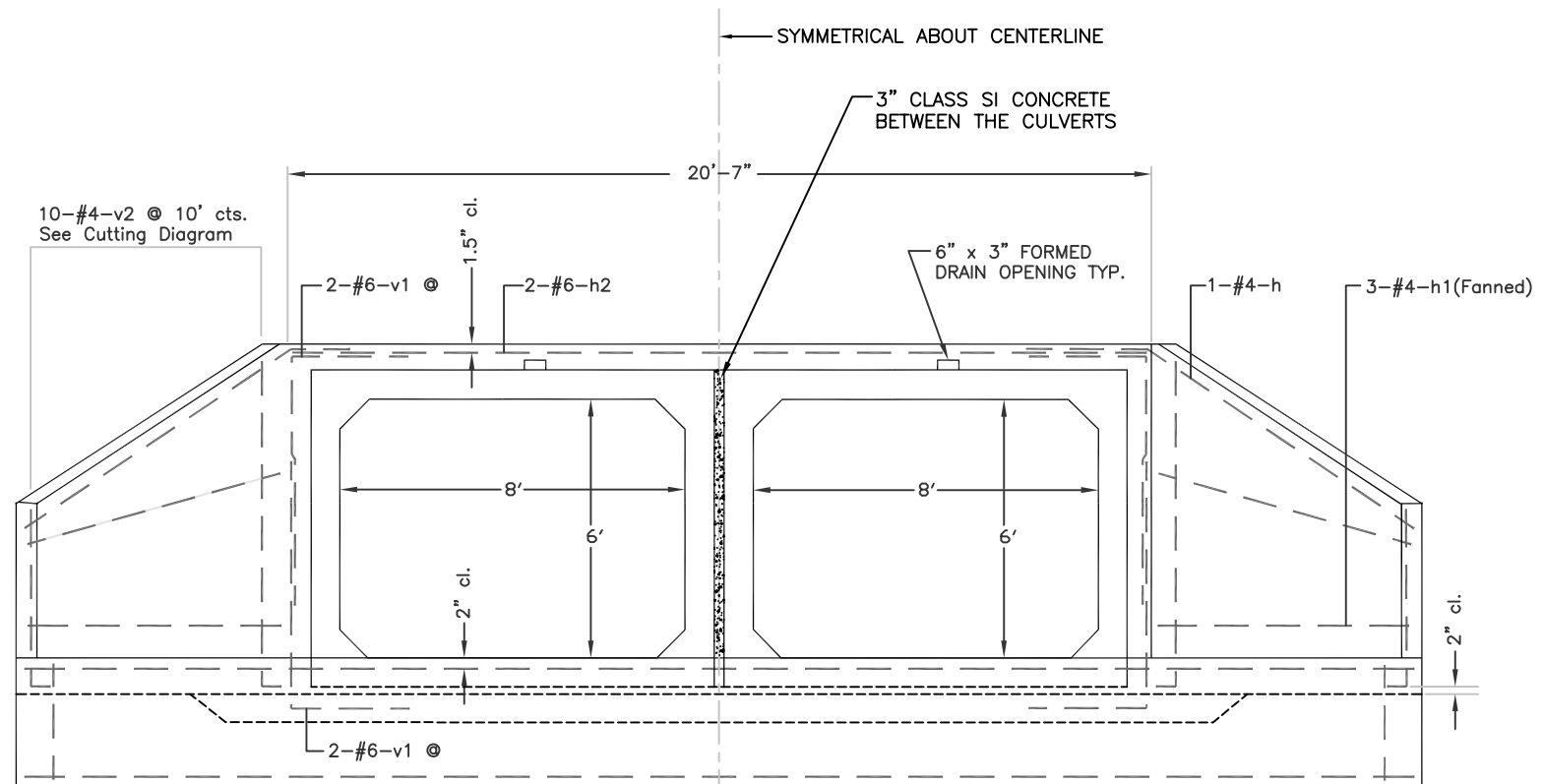
East End Section = 11.31 Cu. Yd. Concrete



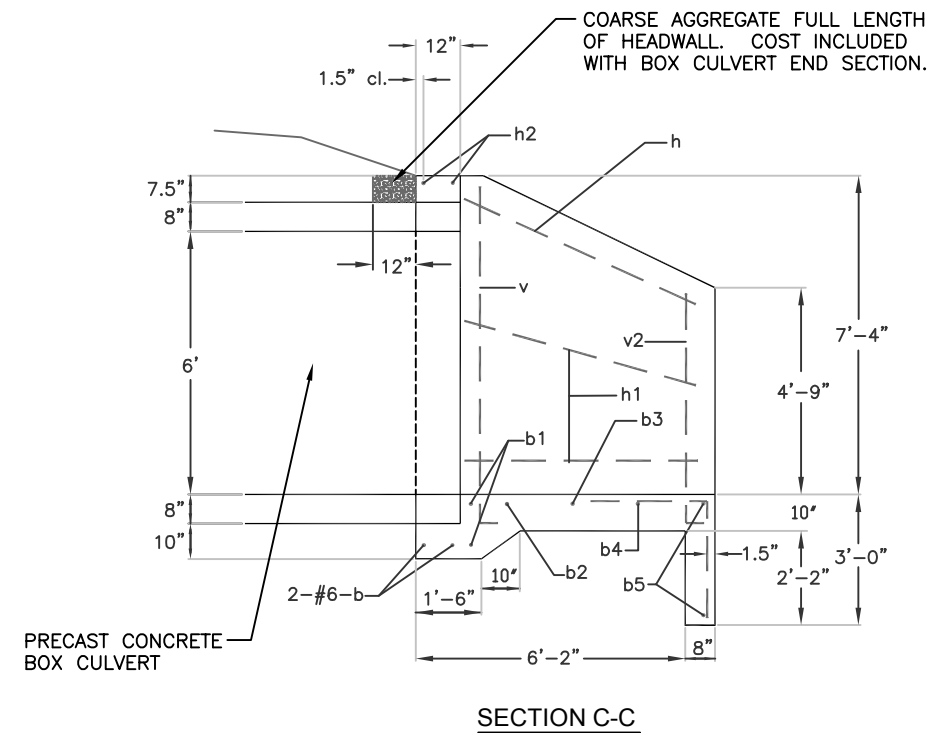
BAR h3  
Bend in field

Bar	A	B
d	2'-8"	2'-8"
v1	3'-0"	4'-3"
v2	2'-0"	7'-9"

BARS d v1 and v2



END ELEVATION

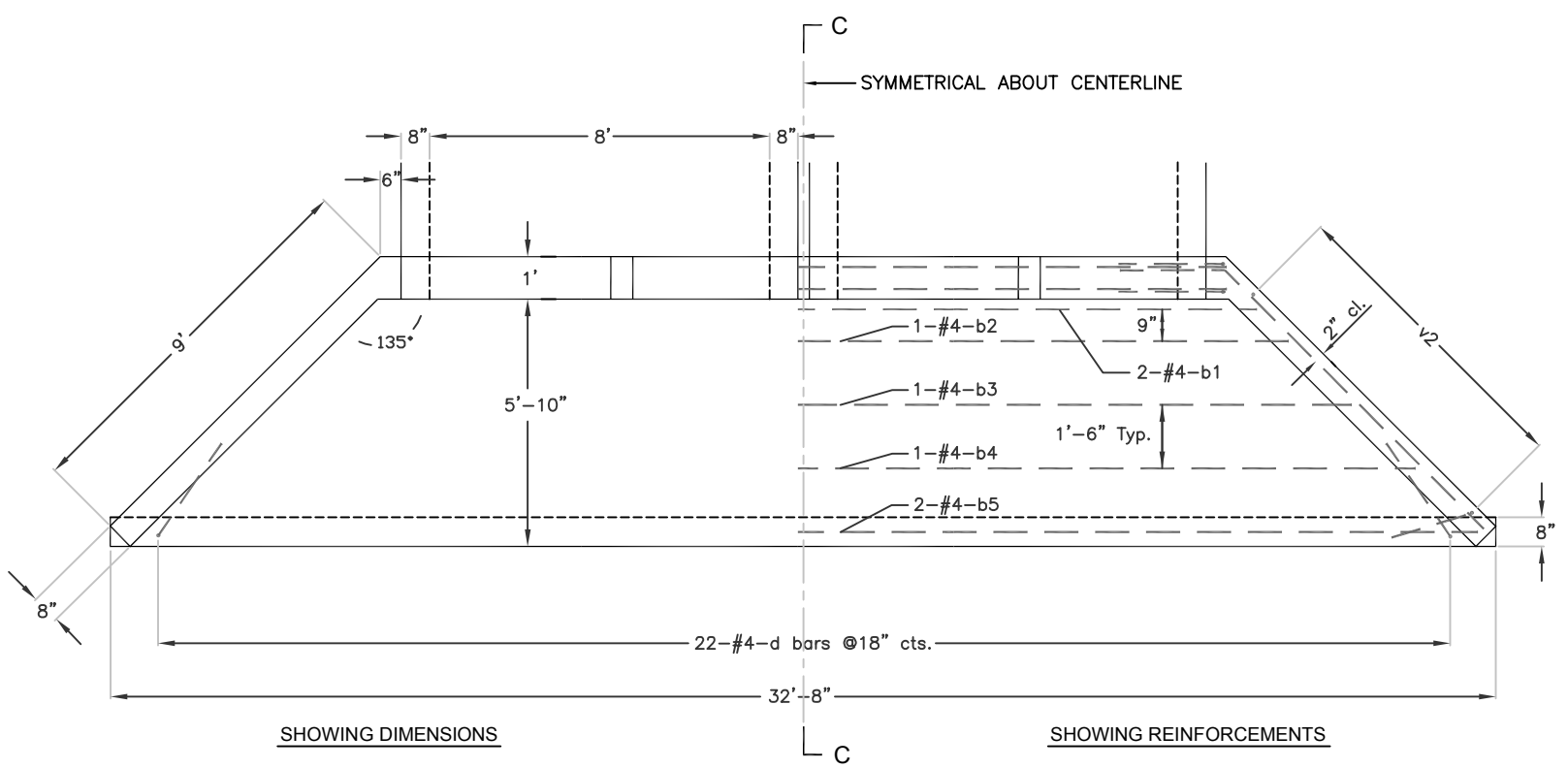


SECTION C-C

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	2	#6	19'-6"	
b1	2	#4	21'-8"	
b2	1	#4	23'-2"	
b3	1	#4	26'-2"	
b4	1	#4	29'-2"	
b5	2	#4	32'-2"	
d	22	#4	5'-4"	
h	2	#4	11'-8"	
h1	8	#4	8'-8"	
h2	2	#6	19'-7"	
v	10	#4	15'-0"	
v1	8	#6	7'-9"	
Reinforcement Bars			Pound	628
Box Culvert End Section			Each	1

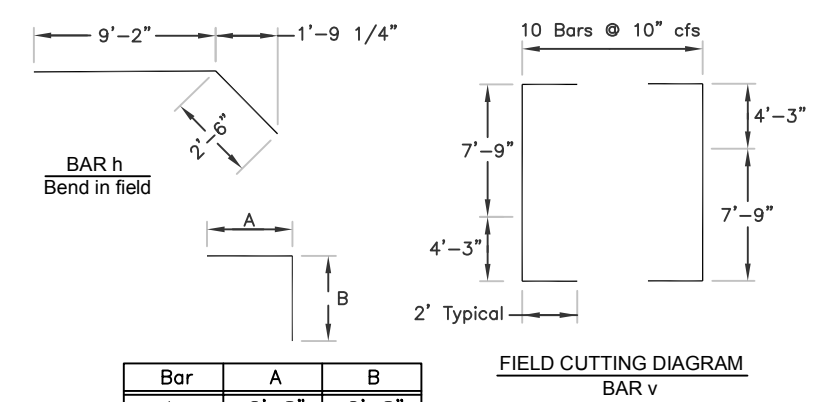
West End Section = 10.85 Cu. Yd. Concrete



SHOWING DIMENSIONS

SHOWING REINFORCEMENTS

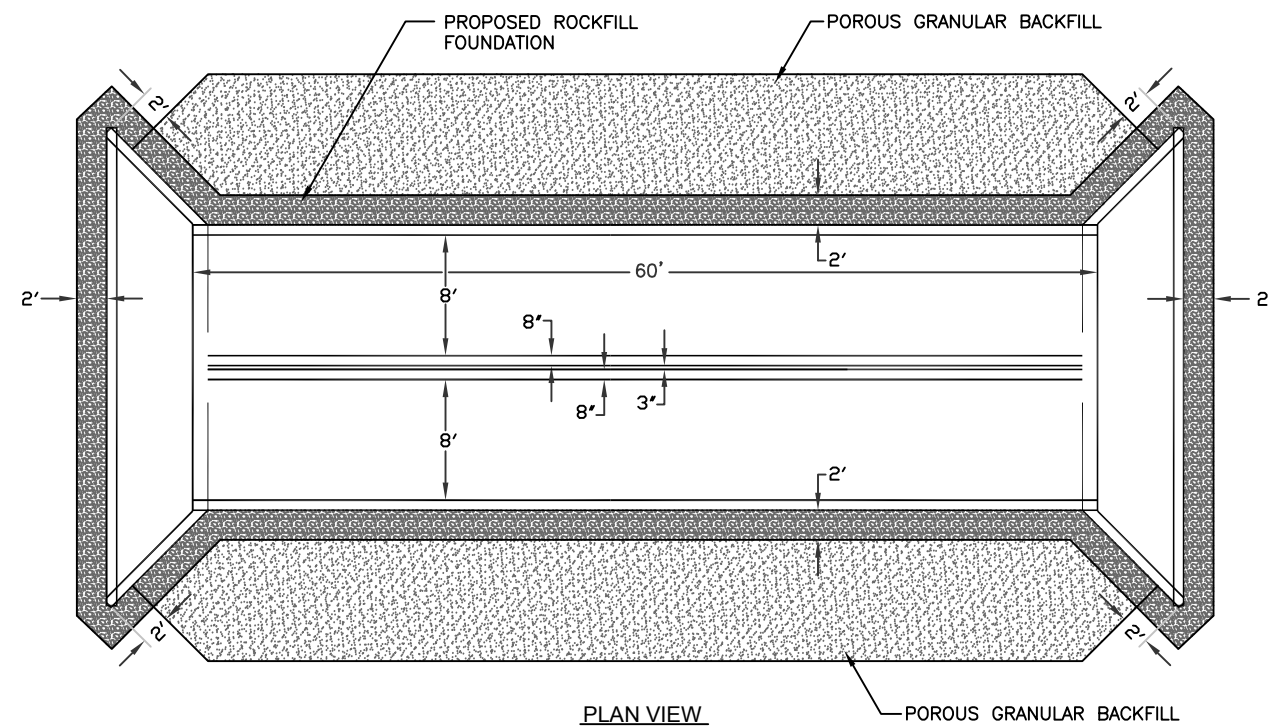
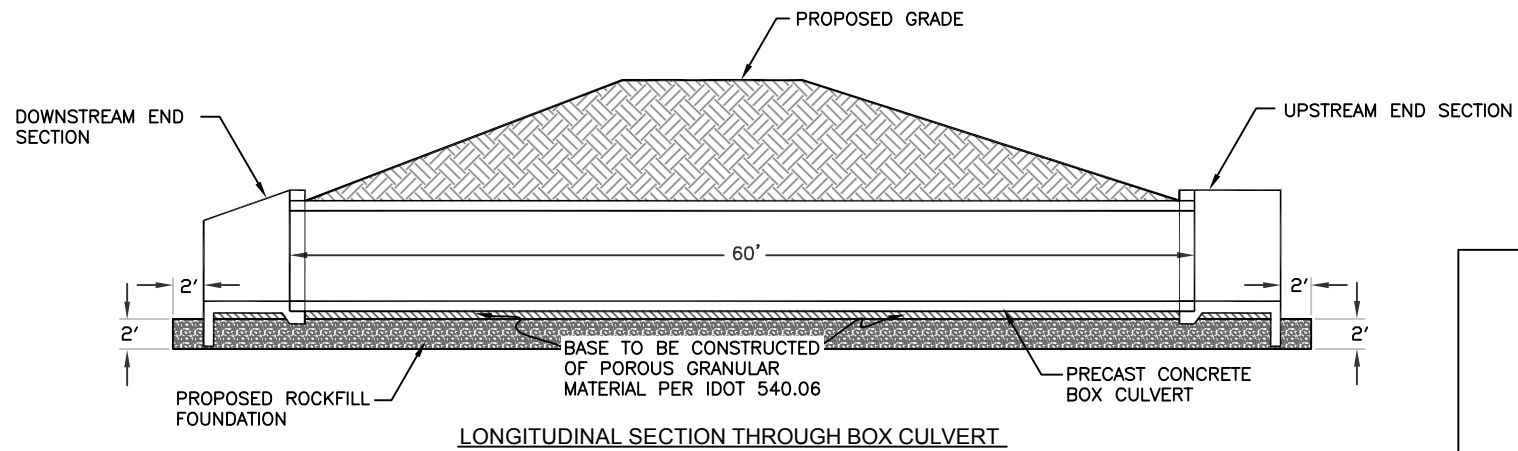
PLAN



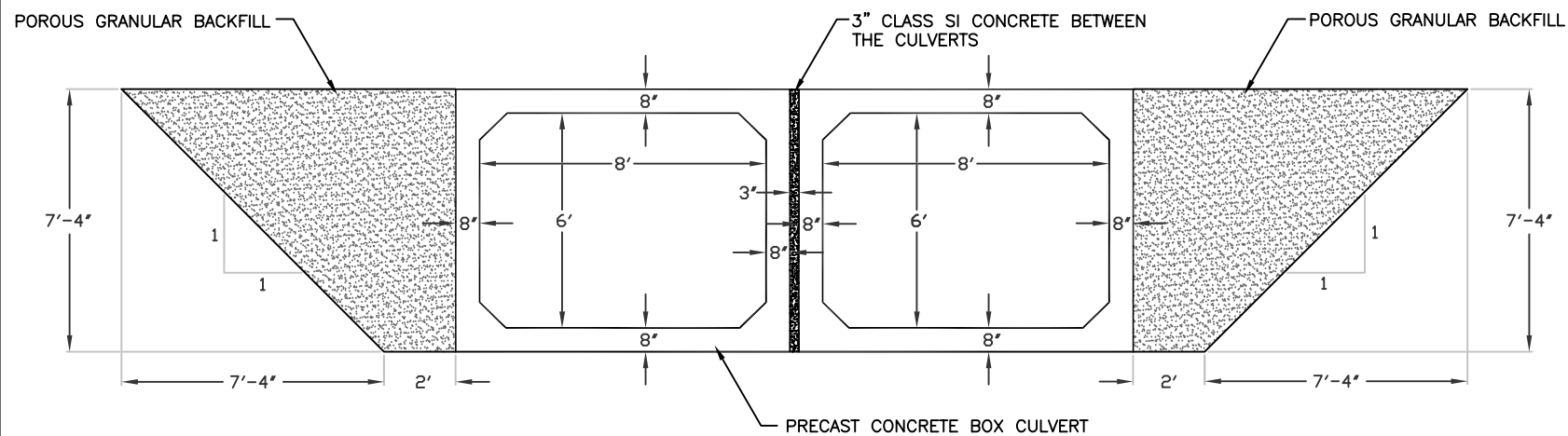
Bar	A	B
d	2'-8"	2'-8"
v1	3'-0"	4'-3"

BARS d and v1

**B** 12 DOWNSTREAM END SECTION DETAIL  
NOT TO SCALE



**SECTION THROUGH BOX CULVERT**



**C**  
13 **GRANULAR CULVERT BACKFILL DETAIL**  
NOT TO SCALE

