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SEPTEMBER 18, 2009 LETTING

ITEM NO.: 5A

LK007  
TOTAL SHEETS = 162

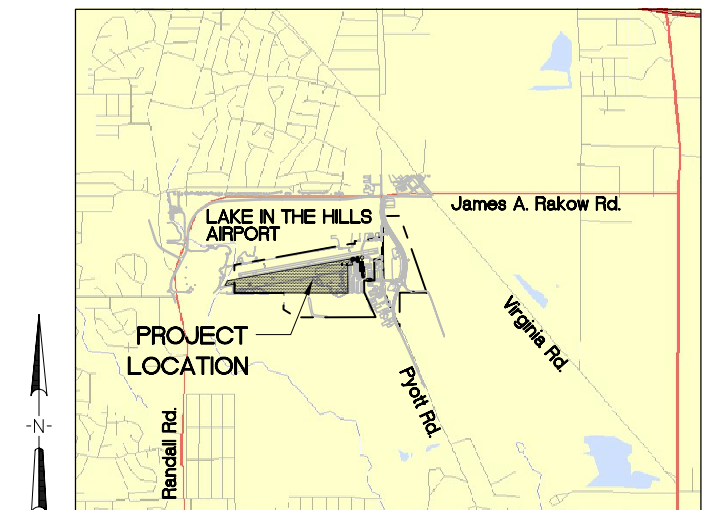
**CONSTRUCTION PLANS**

**CONSTRUCT PARALLEL TAXIWAY A,  
STAGE 1, GRADING AND DRAINAGE**

**LAKE IN THE HILLS AIRPORT (3CK)  
LAKE IN THE HILLS, McHENRY COUNTY, ILLINOIS**

**AIP PROJECT NO. 3-17-0112-B12  
IDA PROJECT NO. 3CK-3877**

**VICINITY MAP**



SHEET NO. 1 OF 162

**NOTICE TO CONTRACTORS AND BIDDERS**

THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.

No.	Issue/Description	Sheets Changed	Date	By

Seal

Date of Plans

Becky L. Blaine, P.E.

AUGUST 14, 2009



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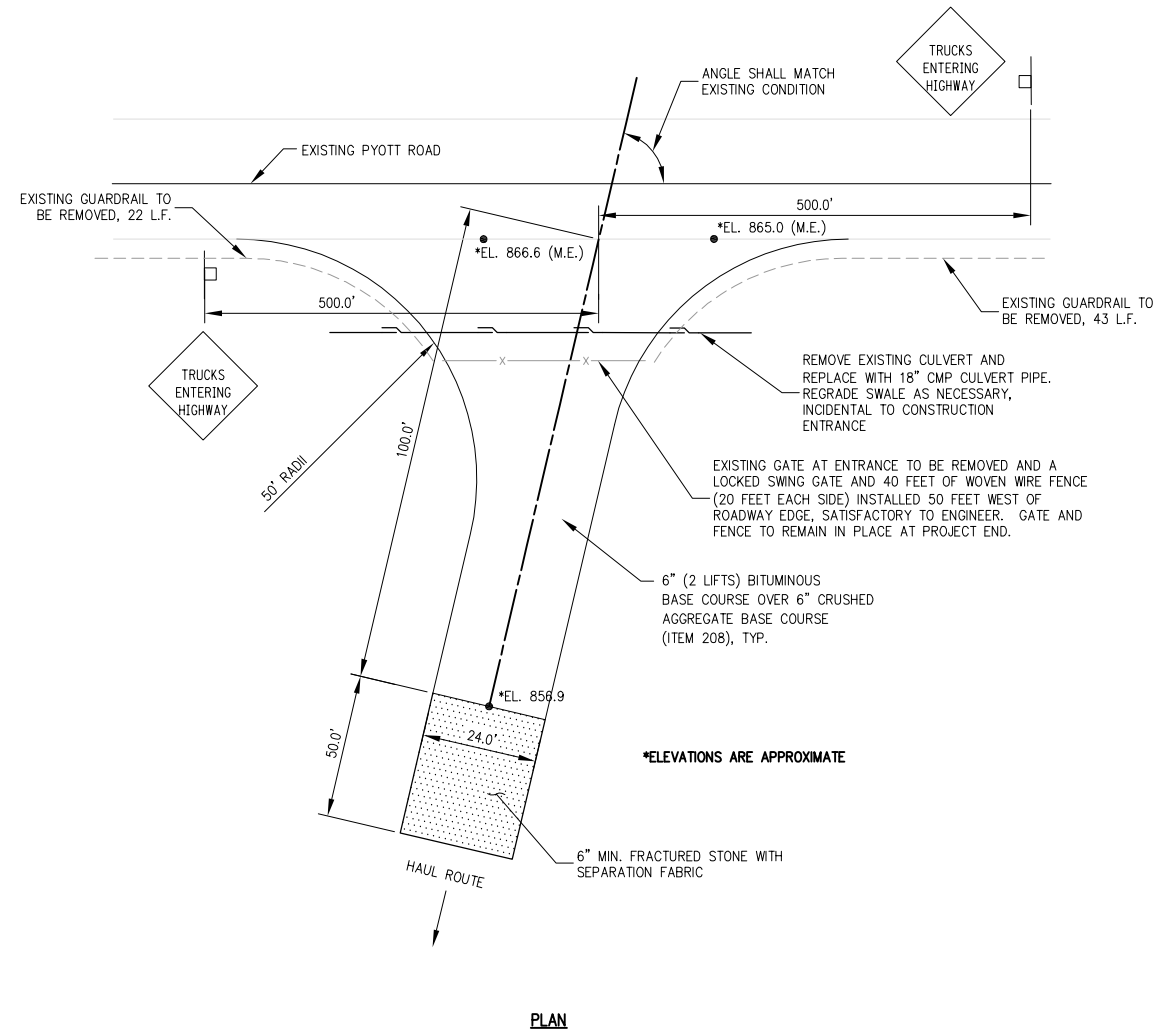


**LAKE IN THE HILLS AIRPORT  
VILLAGE OF LAKE IN THE HILLS, ILLINOIS**

8407 Pyott Road  
Lake in the Hills, Illinois 60156  
Telephone: 847.960.7500







PLAN

**CONSTRUCTION ENTRANCE NOTES:**

- FOR OTHER THAN ASPHALT AREA, STRIP 4" OF EXISTING TOPSOIL PRIOR TO PLACEMENT OF STONE.
- FRACTURED STONE SHALL BE 2-INCH SIZE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT, OR RECYCLED ASPHALT.
- FILTER FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO THE PLACEMENT OF STONE.
- SURFACE WATER FLOWING OR DIVERTED TOWARD ENTRANCE SHALL BE PIPED UNDER THE ENTRANCE.
- ENTRANCE PAVEMENT SHALL BE 24 FEET WIDE. REMAINDER OF HAUL ROUTE SHALL BE 12 FEET WIDE MINIMUM.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL FURNISH CONSTRUCTION SIGNS ON PYOTT ROAD AS SHOWN OR AS REQUIRED BY MCHENRY COUNTY DOT. COST OF SIGNS SHALL BE INCIDENTAL TO CONSTRUCTION ENTRANCE.
- COST OF INSTALLING, MAINTAINING, REMOVING AND RESTORING ENTRANCE SHALL BE PAID UNDER ITEM AR803017, LUMP SUM.

**HAUL ROUTE NOTES:**

- HAUL ROUTE TO BE CONSTRUCTED SO AS TO PROVIDE ACCESS TO THE SITE DURING WEATHER CONDITIONS AND AT THE LOCATION SHOWN IN THE SITE PLAN.
- FROM THE CONSTRUCTION ENTRANCE TO THE WORK SITE, A 50 FOOT WIDE STRIP SHALL BE CLEARED ALONG THE HAUL ROUTE, AVOIDING THE REMOVAL OF ANY TREES. THIS CLEARING IS NOT INCLUDED IN THE CONTRACT, BUT IS INCIDENTAL TO THE NEW CONSTRUCTION ENTRANCE.
- MAINTENANCE OF THE HAUL ROUTE IS THE RESPONSIBILITY OF THE CONTRACTOR AND AT THE DISCRETION OF THE RESIDENT ENGINEER.

**CONSTRUCTION ENTRANCE AND HAUL ROUTE**

**CONSTRUCTION AND SAFETY NOTES**

**SEQUENCE OF CONSTRUCTION**

TO MINIMIZE DISRUPTIONS TO AIRPORT OPERATIONS, CONSTRUCTION OPERATIONS MUST BE CONTROLLED THROUGHOUT THE PROJECT'S DURATION AND WORK MUST BE COMPLETED EXPEDITIOUSLY. THE CONTRACTOR IS TO PREPARE AND FOLLOW A STAGING PLAN THAT COORDINATES HIS WORK WITH THE WORK OF HIS SUBCONTRACTORS AND THE WORK OF OTHER CONTRACTORS ON-FIELD. THIS STAGING PLAN MUST BE SATISFACTORY TO THE PROJECT ENGINEER AND THE AIRPORT DIRECTOR.

**LATHING AND WARNING TAPE**

THE PROJECT WILL REQUIRE THE PLACEMENT OF LATHING AND WARNING TAPE TO DELINEATE THE WORK AREA FROM ACTIVE AIRPORT OPERATIONS AREAS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, PLACE AND MAINTAIN LATHING AND WARNING TAPE SHOWN ON SHEET 3, AND IN DETAIL A, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR. THE CONTRACTOR WILL FURNISH, PLACE, MAINTAIN AND RELOCATE THE LATHING AND WARNING TAPE AS REQUIRED. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

**RUNWAY CLOSURE**

CLOSURE OF RUNWAY 8-26 WILL NOT BE PERMITTED AT ANY TIME DURING THE PROJECT.

**VEHICULAR TRAFFIC CONTROL**

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND PLACE ROAD WARNING SIGNS AND BARRICADES ON THE EXISTING ROADWAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE, INSTALL AND RELOCATE THE ITEMS AS REQUIRED. THE COST OF THIS WORK IS TO BE INCIDENTAL TO THE CONTRACT.

CONTRACTOR SHALL PROVIDE, INSTALL AND REMOVE ALL TRAFFIC CONTROL ITEMS WHEN CONSTRUCTION ACTIVITIES ARE WITHIN 15 FEET OF AN ACTIVE ROADWAY EDGE OR AS REQUIRED BY THE SITE PLAN. COST OF THIS WORK IS TO BE INCIDENTAL TO THE CONTRACT.

**AIRFIELD OPERATIONAL SAFETY DURING CONSTRUCTION**

ALL CONSTRUCTION TRAFFIC AND PERSONNEL SHALL REMAIN WITHIN THE CONSTRUCTION LIMIT LINE SHOWN ON THE SITE PLAN FOR THE CURRENT WORK. CONTRACTOR'S PERSONNEL AND EQUIPMENT MUST REMAIN AT LEAST 150 FEET FROM THE CENTERLINE OF ACTIVE RUNWAYS, 700 FEET FROM THE END OF ACTIVE RUNWAYS, 45 FEET FROM THE CENTERLINE OF ACTIVE TAXIWAYS, AND 10 FEET FROM THE EDGE OF ACTIVE APRONS.

WHEN NOT IN USE AND DURING NONWORKING HOURS, CONTRACTOR'S EQUIPMENT SHALL BE PARKED WITHIN THE CONTRACTOR'S EQUIPMENT STORAGE AND PARKING AREAS. THE EQUIPMENT STORAGE AND PARKING AREAS ARE TO BE LOCATED AS SHOWN ON THE SITE PLAN, SHEET 3. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION ENTRANCE IN GOOD CONDITION. THE COST OF MAINTAINING THE CONSTRUCTION ENTRANCE IS TO BE INCIDENTAL TO THE CONTRACT.

AT NO TIME SHALL THE CONTRACTOR OPERATE OR PARK EQUIPMENT SO AS TO OBSTRUCT AN ACTIVE RUNWAY APPROACH SURFACE.

ALL CONTRACTOR EQUIPMENT IS LIMITED TO A HEIGHT OF 25 FEET.

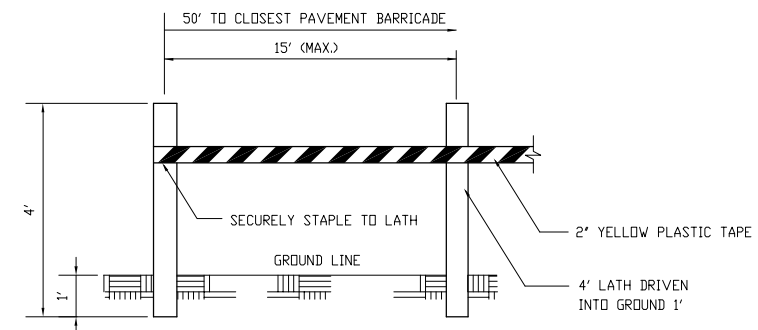
**CONTRACTOR'S USE OF SITE**

THE CONTRACTOR SHALL NOT OPERATE WITHIN, ENCROACH UPON OR OBSTRUCT AIRPORT OPERATIONAL AREAS, INCLUDING ACTIVE RUNWAY, TAXIWAYS AND APRON SAFETY AREAS, OBJECT AND OBSTACLE FREE ZONES, RUNWAY PROTECTION ZONES AND AIRPORT IMAGINARY SURFACES AS DEFINED IN FEDERAL AVIATION REGULATIONS (FAR) PART 77, "OBJECTS AFFECTING NAVIGABLE AIRSPACE".

THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF THE WORK AREA PRIOR TO BEGINNING WORK AT A NEW LOCATION.

**UTILITY OUTAGES AND SHUTDOWNS**

THE CONTRACTOR SHALL PROVIDE 72 HOURS PRIOR NOTICE OF ANY OUTAGES OR SHUTDOWNS TO THE OWNER AND THE AGENCY OWNING THE AFFECTED UTILITY. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONNECTIONS OR OTHER MEASURES AS MAY BE REQUIRED TO MAINTAIN SERVICE AS MAY BE REQUIRED BY THE OWNING AGENCY AT NO COST TO THE OWNER.



MATERIALS ARE TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION. COST OF MATERIALS, INSTALLATION, RELOCATION AND MAINTENANCE OF LATHING AND WARNING TAPE IS TO BE INCIDENTAL TO THE CONTRACT.

**DETAIL A LATHING AND WARNING TAPE**

NTS

REVISION	DATE

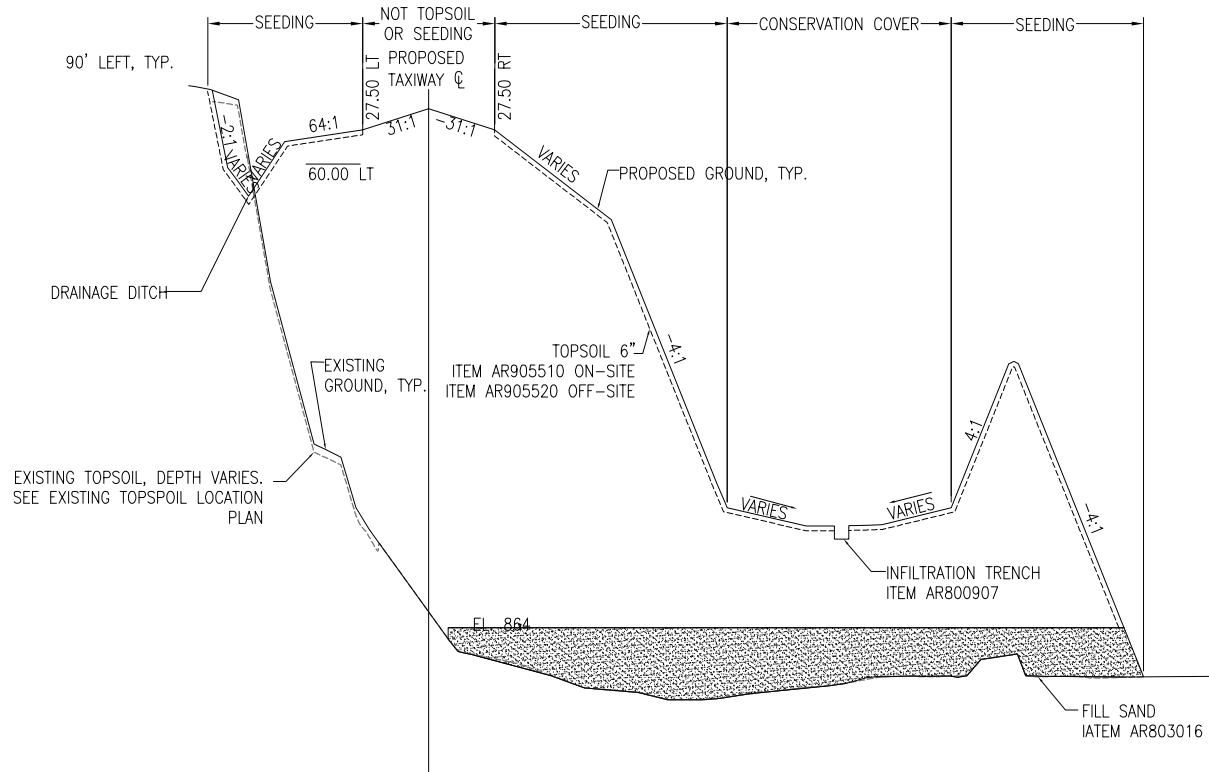
VILLAGE OF LAKE IN THE HILLS  
600 Harvest Gate  
Lake in the Hills, Illinois 60156 Telephone: 847.960.7410  
Fax: 847.960.7515



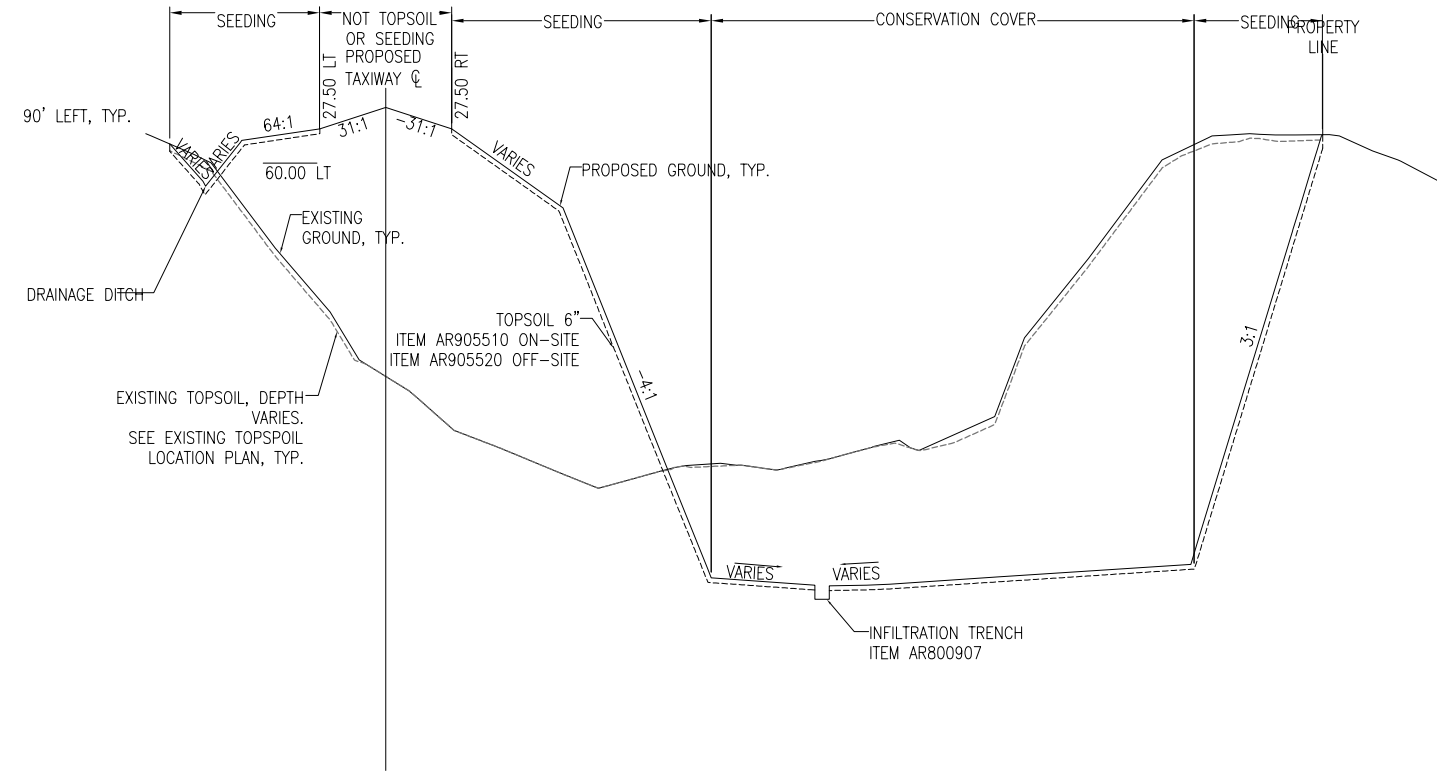
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Scale	REVIEWED	LDH
Date AUGUST 14, 2009		RMH
		8/7/09

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CONSTRUCTION SAFETY NOTES AND DETAILS  
CONSTRUCT PARALLEL TAXIWAY A, STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12



TYPICAL SECTION FILL



TYPICAL SECTION CUT

NOTES

1. SLOPES VARY. SEE PLANS FOR DETAILS PROPOSED PREPARED SUBGRADE.
2. CUT AREAS - REMOVE TOPSOIL. ADDITIONAL UNDERCUT BELOW CUTLINE AS DETERMINED BY ROLL TEST.
3. FILL AREAS - REMOVE TOPSOIL AS PRESENT. UNDERCUT OF EXISTING GRADE AS DETERMINED BY ROLL TEST.

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DATE	REVISION
REVDATE1	REV1
REVDATE2	REV2
REVDATE3	REV3
REVDATE4	REV4
REVDATE5	REV5
REVDATE6	REV6
REVDATE7	REV7
REVDATE8	REV8
REVDATE9	REV9

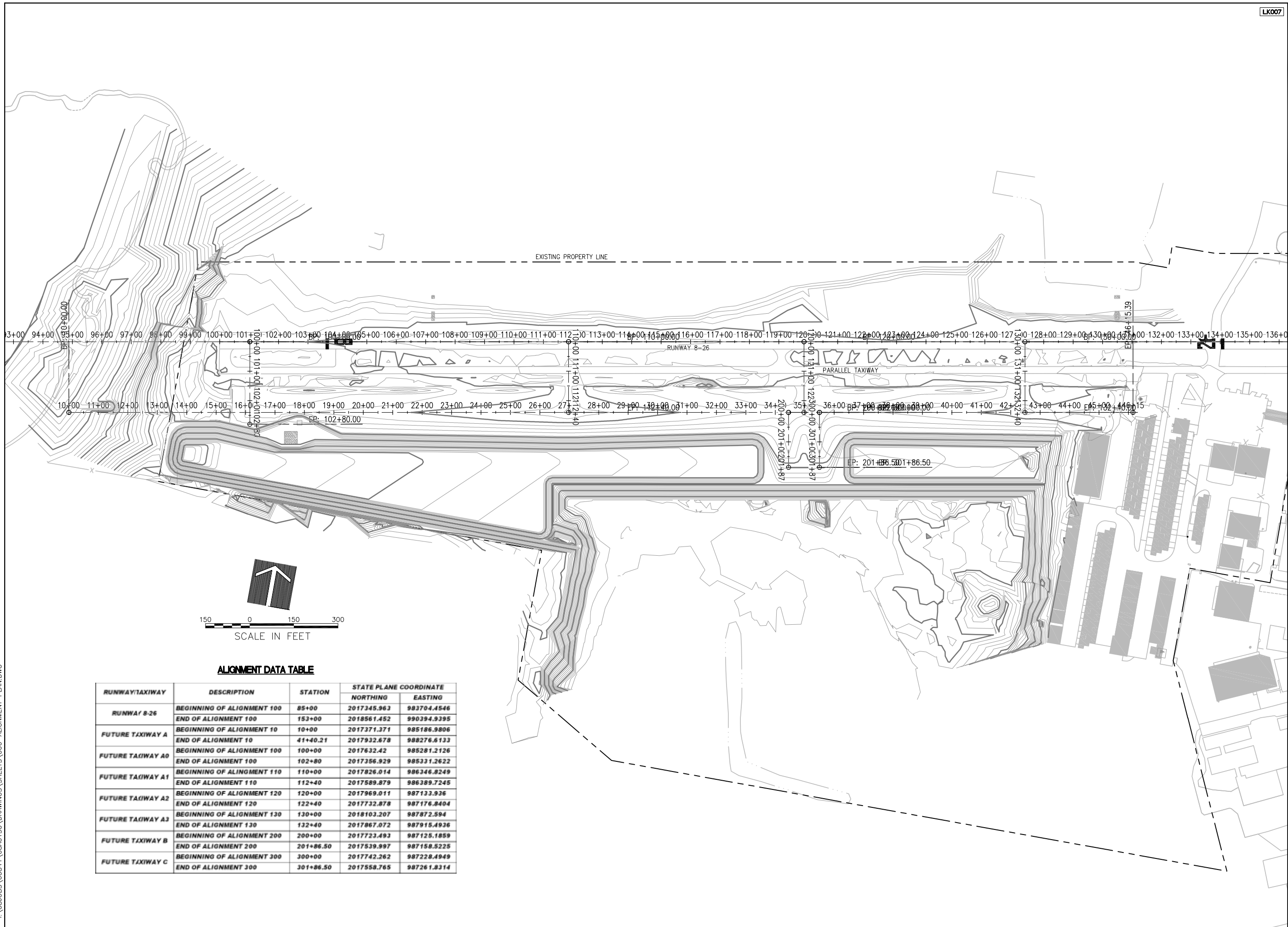
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Date	
LAYOUT	LAYOUT DATE
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REVIEWED	RMH
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**TYPICAL SECTIONS**  
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 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



ALIGNMENT DATA TABLE

RUNWAY/TAXIWAY	DESCRIPTION	STATION	STATE PLANE COORDINATE	
			NORTHING	EASTING
RUNWAY 8-26	BEGINNING OF ALIGNMENT 100	85+00	2017345.963	983704.4546
	END OF ALIGNMENT 100	153+00	2018561.452	990394.9395
FUTURE TAXIWAY A	BEGINNING OF ALIGNMENT 10	10+00	2017371.371	985186.9806
	END OF ALIGNMENT 10	41+40.21	2017932.678	988276.6133
FUTURE TAXIWAY A0	BEGINNING OF ALIGNMENT 100	100+00	2017632.42	985281.2126
	END OF ALIGNMENT 100	102+80	2017386.929	985331.2622
FUTURE TAXIWAY A1	BEGINNING OF ALIGNMENT 110	110+00	2017826.014	986346.8249
	END OF ALIGNMENT 110	112+40	2017589.879	986389.7245
FUTURE TAXIWAY A2	BEGINNING OF ALIGNMENT 120	120+00	2017969.011	987133.936
	END OF ALIGNMENT 120	122+40	2017732.878	987176.8404
FUTURE TAXIWAY A3	BEGINNING OF ALIGNMENT 130	130+00	2018103.207	987872.594
	END OF ALIGNMENT 130	132+40	2017867.072	987915.4936
FUTURE TAXIWAY B	BEGINNING OF ALIGNMENT 200	200+00	2017723.493	987125.1859
	END OF ALIGNMENT 200	201+86.50	2017539.997	987158.5225
FUTURE TAXIWAY C	BEGINNING OF ALIGNMENT 300	300+00	2017742.262	987228.4949
	END OF ALIGNMENT 300	301+86.50	2017558.765	987261.8314

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Filename 006-ALIGNMENT PLAN.DWG	LDH	8/10/09
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ALIGNMENT DATA SHEET  
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 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

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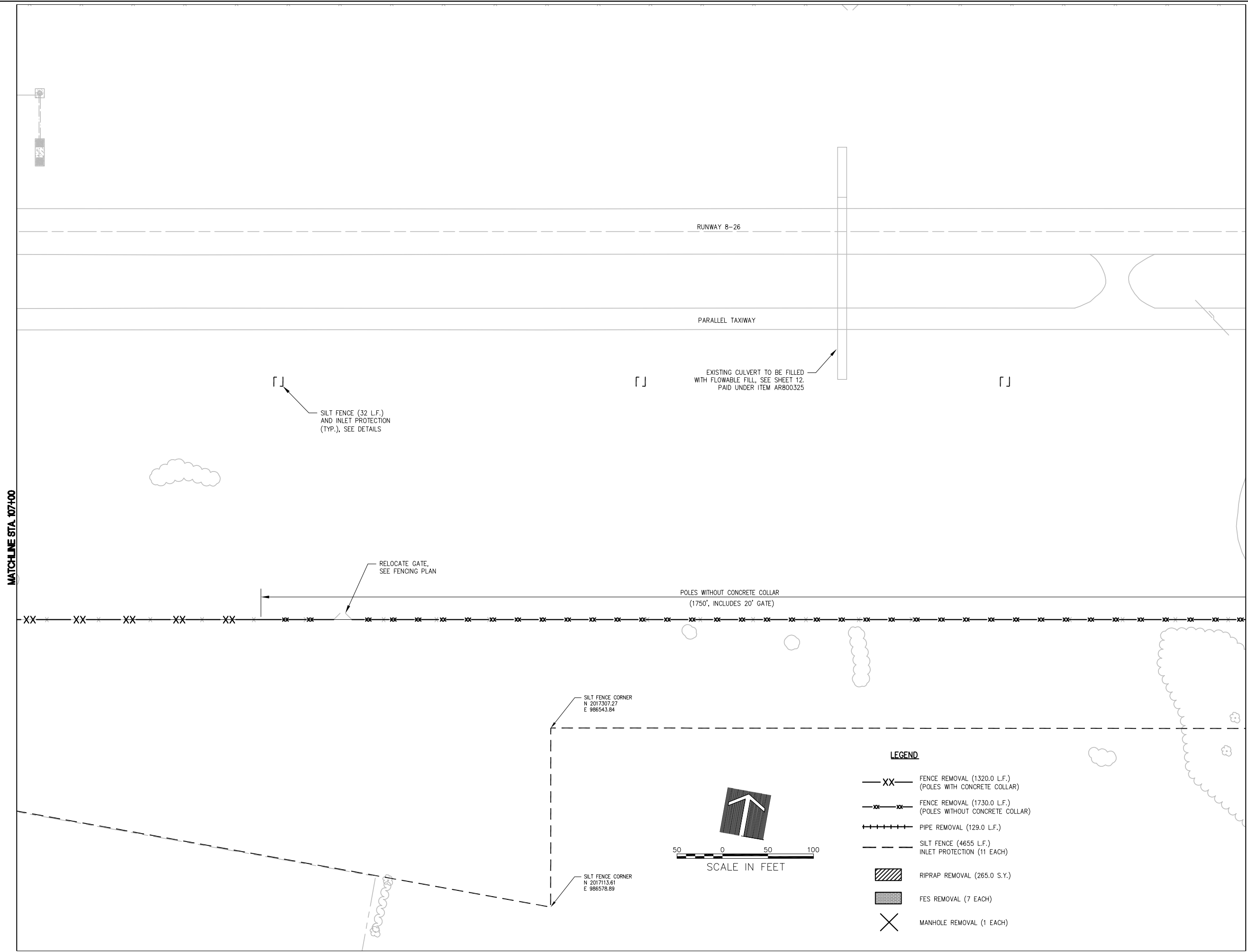
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Date	AUGUST 14, 2009
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**CLEARING AND GRUBBING PLAN**  
 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12







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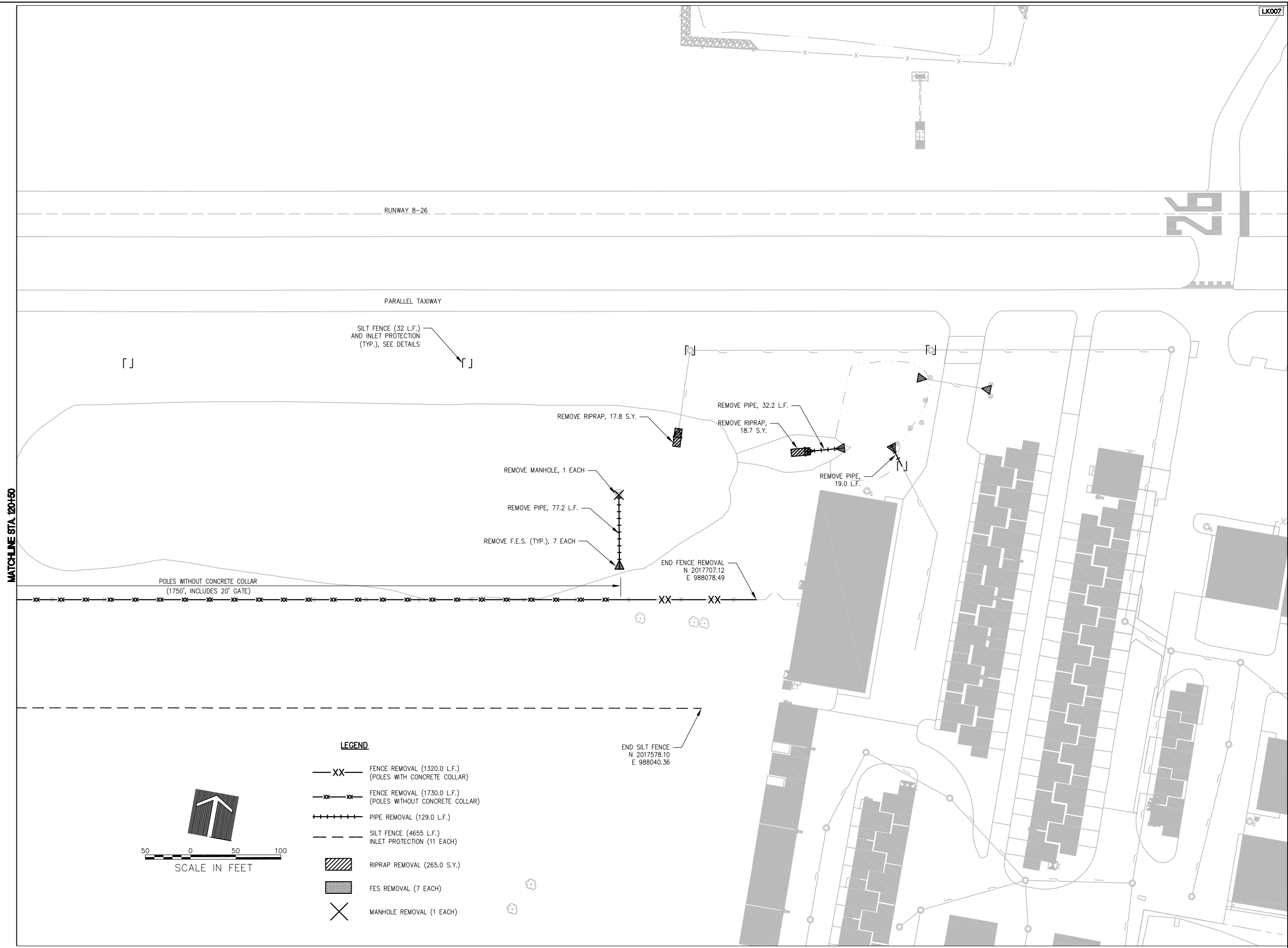


Revision No.	Description	Date	By	Check
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1	1"=50'		LDH	LDH
2			RMH	RMH

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**DEMOLITION AND SITE PREPARATION PLAN**  
**CONSTRUCT PARALLEL TAXIWAY A, STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

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**LEGEND**

— XX —	FENCE REMOVAL (1320.0 L.F.) (POLES WITH CONCRETE COLLAR)
- - - - -	FENCE REMOVAL (1730.0 L.F.) (POLES WITHOUT CONCRETE COLLAR)
+++++	PIPE REMOVAL (129.0 L.F.)
- - - - -	SILT FENCE (4655 L.F.)
- - - - -	INLET PROTECTION (11 EACH)
▨	RIPRAP REMOVAL (265.0 S.Y.)
▩	FES REMOVAL (7 EACH)
X	MANHOLE REMOVAL (1 EACH)

DATE	REVISION

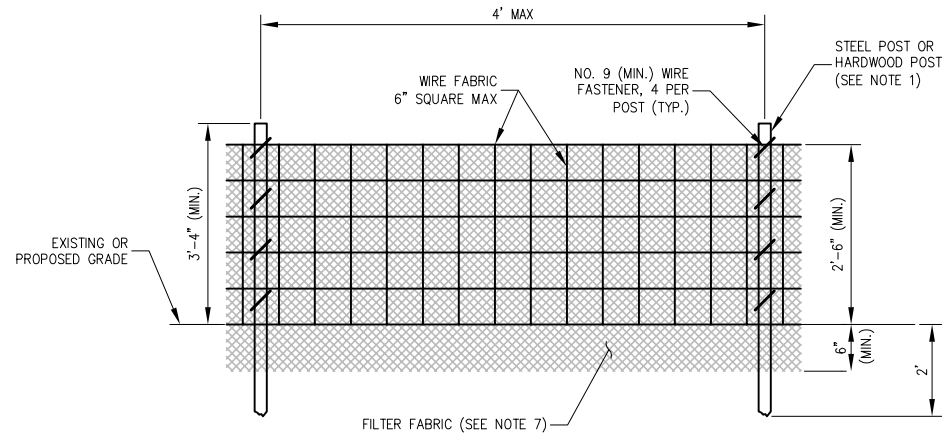
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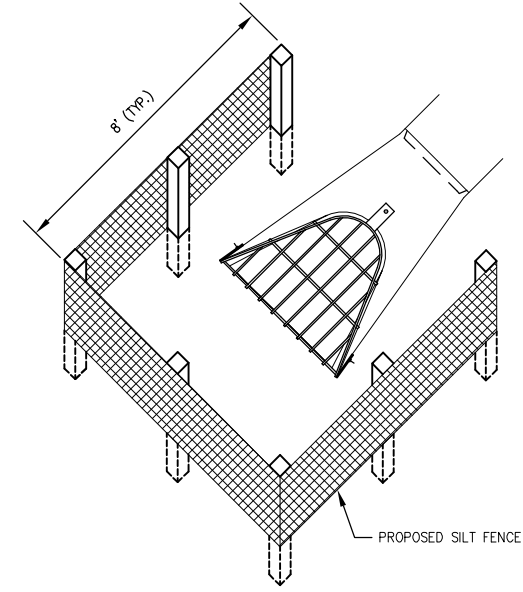
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08A0150-010-DEMO & PREP PLAN.DWG	AUGUST 14, 2009	LDH	7/21/09
		LDH	7/21/09
		RMH	8/7/09

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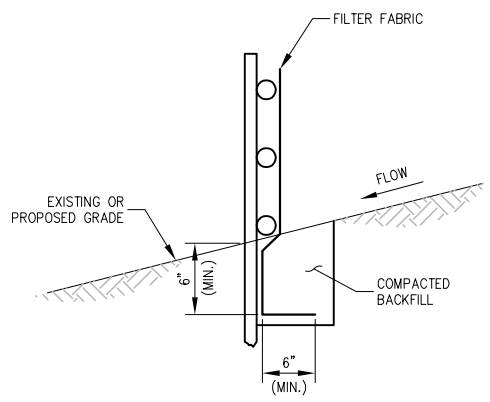
**DEMOLITION AND SITE PREPARATION PLAN**  
 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



ELEVATION



SILT FENCE PLACEMENT AT FLARED END SECTIONS (FES)

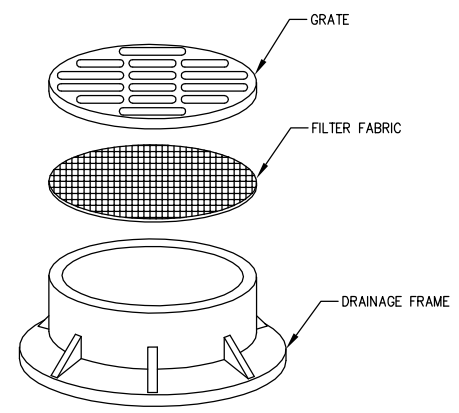


FABRIC ANCHOR DETAIL

**NOTES:**

1. FENCE POST SHALL BE EITHER STEEL "T" LINE POST OR HARDWOOD POST WITH A MINIMUM SECTIONAL AREA OF 3.0 SQUARE INCHES.
2. THE WIRE FABRIC SHALL BE MINIMUM GAGE NO. 14
3. WIRE FABRIC SHALL BE SECURELY FASTENED TO FENCE POSTS WITH NO. 9 GAGE WIRE MINIMUM. FOUR (4) FASTENERS PER POST REQUIRED.
4. FILTER FABRIC SHALL BE SECURELY FASTENED TO WIRE FABRIC AND POSTS WITH TIES OR STAPLES SPACED AT 12" APART AT THE TOP, MIDDLE AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER FABRIC MEET, THEY SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST. ALTERNATIVELY, TWO SECTIONS OF FENCE MAY BE OVERLAPPED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN BULGES DEVELOP IN THE SILT FENCE.
7. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF AASHTO M 288-06, TABLE 7.
8. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. PERIODIC INSPECTION SHALL BE PERFORMED AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
9. FENCE POSTS SHALL BE REMOVED WHEN DIRECTED AT PROJECT END.

SILT FENCE DETAIL  
NTS



**NOTES:**

1. FILTER WRAP TO BE PLACED IN ALL MANHOLES AS SHOWN.
2. FABRIC SHALL BE IN CONFORMANCE WITH MATERIALS SPECIFIED FOR SILT FENCE.
3. FABRIC SHALL OVERLAY FRAME BY 2 INCHES (MINIMUM).
4. CONTRACTOR SHALL CLEAR DEBRIS AND SILT AS REQUIRED FROM FABRIC TO MAINTAIN DRAINAGE THROUGH THE STRUCTURE.
5. FABRIC SHALL REMAIN IN PLACE UNTIL TURFED AREAS HAVE DEVELOPED A MINIMUM OF 80% OF COVERAGE.
6. COST OF FILTER WRAP SHALL BE INCIDENTAL TO INLET PROTECTION.

INLET PROTECTION - DRAINAGE STRUCTURE FILTER WRAP

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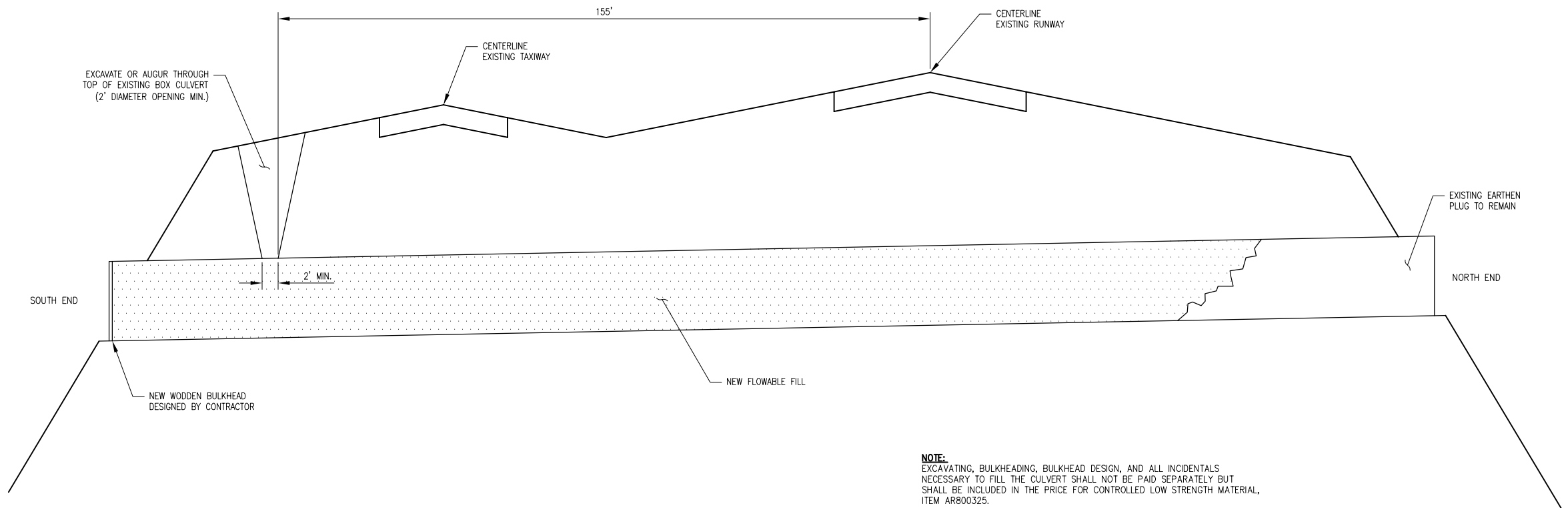
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**SITE PREPARATION DETAILS**  
 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



**NOTE:**  
 EXCAVATING, BULKHEADING, BULKHEAD DESIGN, AND ALL INCIDENTALS NECESSARY TO FILL THE CULVERT SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE PRICE FOR CONTROLLED LOW STRENGTH MATERIAL, ITEM AR800325.

**CULVERT FILL – CONTROLLED LOW STRENGTH MATERIAL FILL DETAIL**

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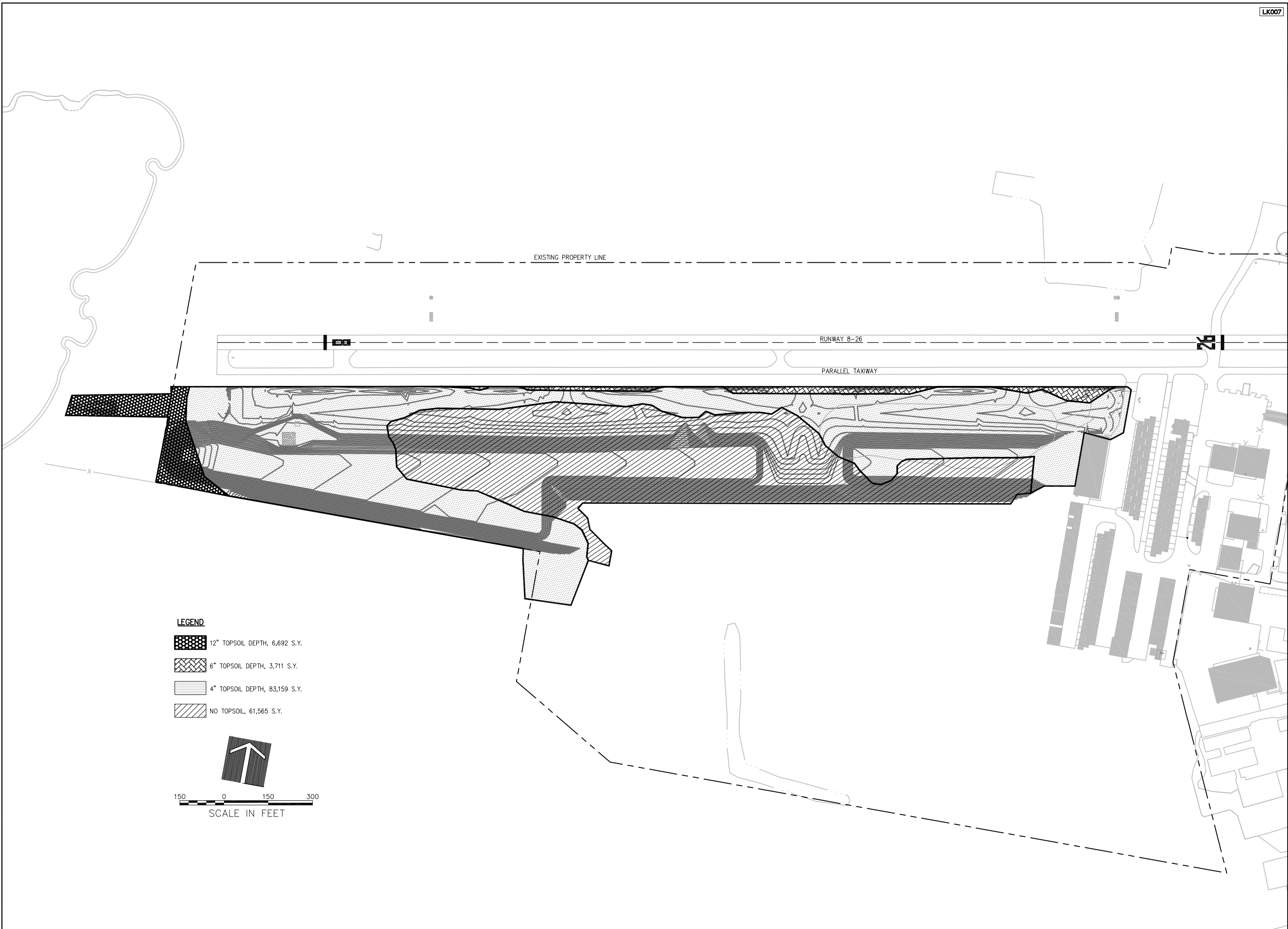
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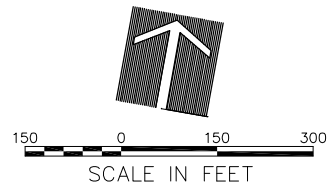
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 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



**LEGEND**

-  12" TOPSOIL DEPTH, 6,692 S.Y.
-  6" TOPSOIL DEPTH, 3,711 S.Y.
-  4" TOPSOIL DEPTH, 83,159 S.Y.
-  NO TOPSOIL, 61,565 S.Y.



DATE	REVISION

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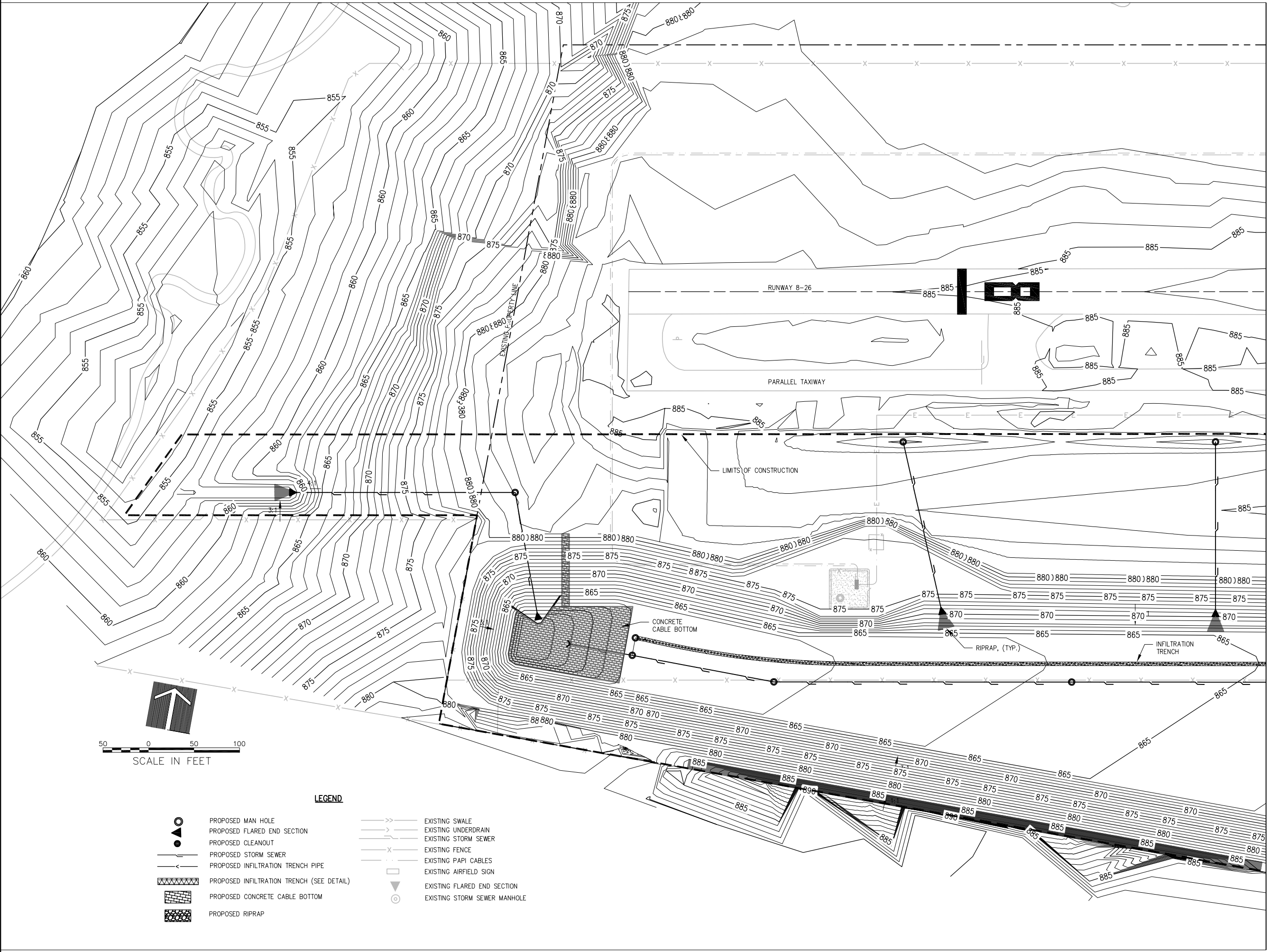


Hanson No.	08A0150	LAYOUT	LDH	8/6/09
Filename	013-TOPSOIL PLAN.DWG	DRAWN	LDH	8/6/09
Scale	1" = 150'	REVIEWED	RMH	8/7/09
Date	AUGUST 14, 2009			

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**EXISTING TOPSOIL LOCATION PLAN**  
 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

AUG 18, 2009 6:28 AM BLAND1219  
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LEGEND

- PROPOSED MAN HOLE
- PROPOSED FLARED END SECTION
- PROPOSED CLEANOUT
- PROPOSED STORM SEWER
- PROPOSED INFILTRATION TRENCH PIPE
- PROPOSED INFILTRATION TRENCH (SEE DETAIL)
- PROPOSED CONCRETE CABLE BOTTOM
- PROPOSED RIPRAP
- EXISTING SWALE
- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING FENCE
- EXISTING PAPI CABLES
- EXISTING AIRFIELD SIGN
- EXISTING FLARED END SECTION
- EXISTING STORM SEWER MANHOLE

DATE	REVISION

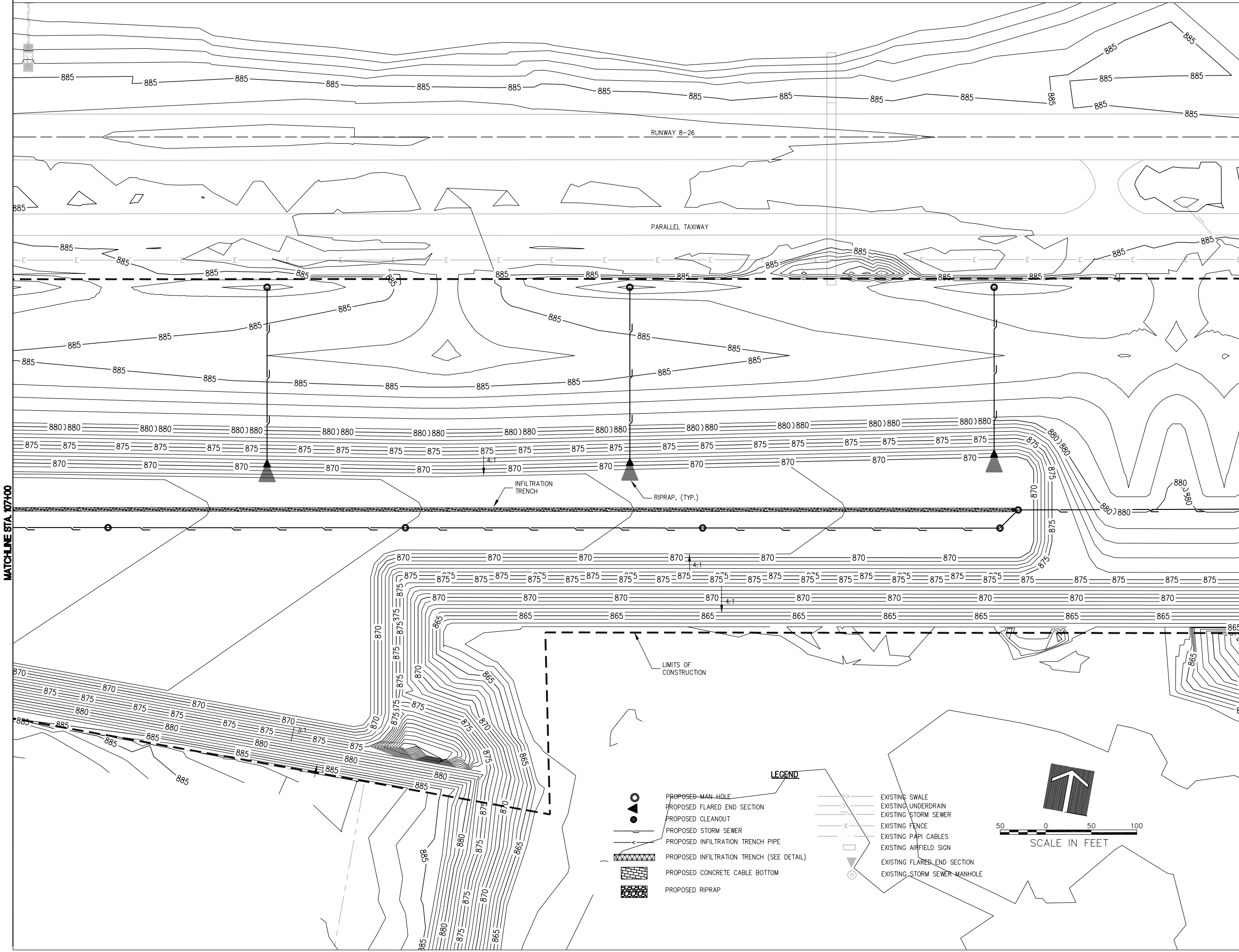
**VILLAGE OF LAKE IN THE HILLS**  
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PROJECT	DATE	BY	CHKD
Hanson No. 08A0150	AUGUST 14, 2009	LDH	7/26/09
Filename: 014-GRADING PLAN.DWG		SJM	7/27/09
Scale: 1"=50'		RMH	8/7/09

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 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877  
 AIP No. 3-17-0112-B12



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DATE	REVISION

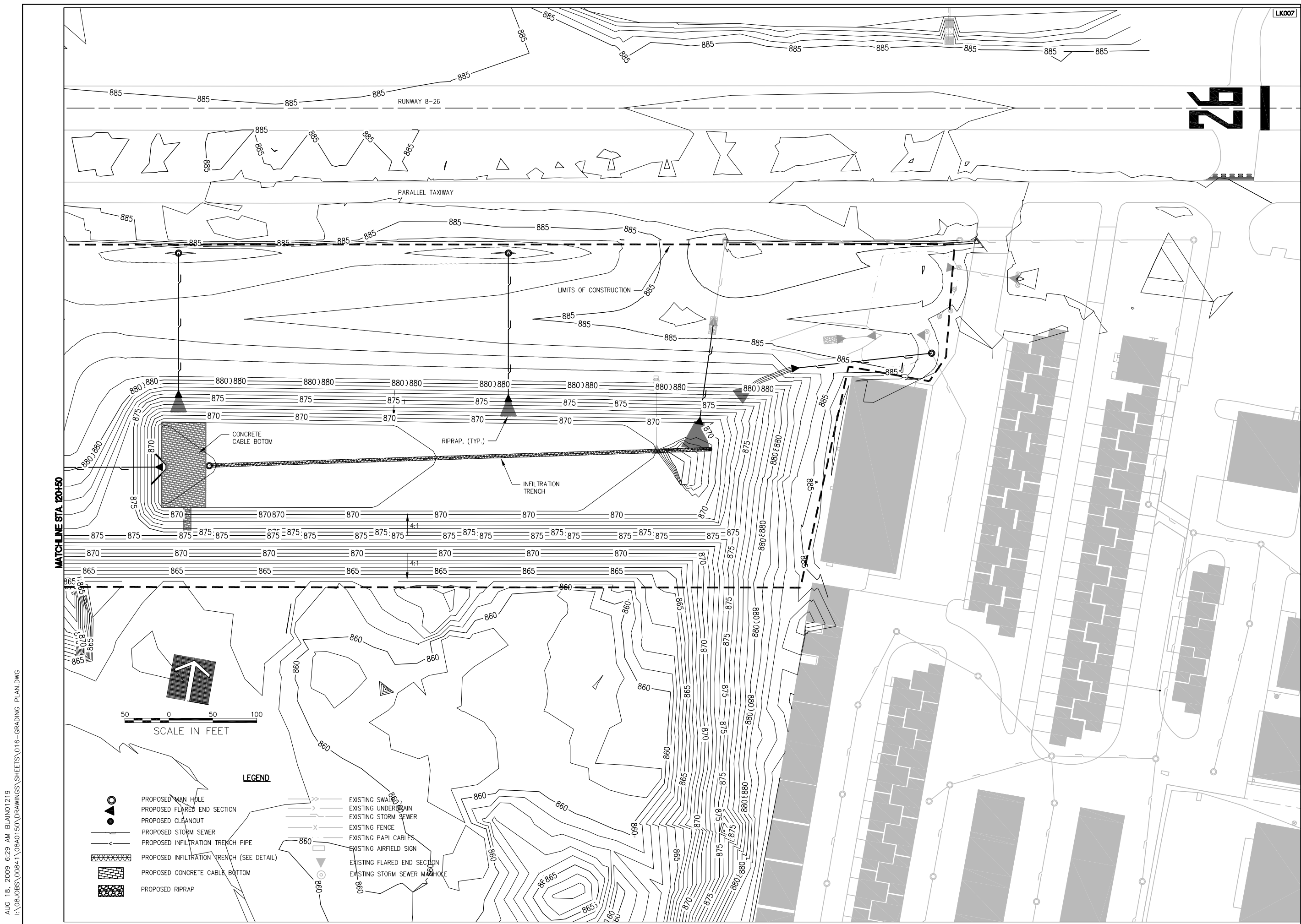
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DATE	BY	REVIEWED
AUGUST 14, 2009	LDH	7/26/09
	SJM	7/27/09
	RMH	8/7/09

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 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



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MATCHLINE STA. 120+50

SCALE IN FEET  
0 50 100

LEGEND

- PROPOSED MAN HOLE
- PROPOSED FLARED END SECTION
- PROPOSED CLEANOUT
- PROPOSED STORM SEWER
- PROPOSED INFILTRATION TRENCH PIPE
- XXXXXX PROPOSED INFILTRATION TRENCH (SEE DETAIL)
- ▨ PROPOSED CONCRETE CABLE BOTTOM
- ▩ PROPOSED RIPRAP
- > EXISTING SWALE
- > EXISTING UNDERDRAIN
- > EXISTING STORM SEWER
- > EXISTING FENCE
- > EXISTING PAPI CABLES
- > EXISTING AIRFIELD SIGN
- EXISTING FLARED END SECTION
- EXISTING STORM SEWER MANHOLE

REVISION	DATE

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Hanson No. 08A0150	LAYOUT	LDH	7/26/09
Filename 016-GRADING PLAN.DWG	DRAWN	SJM	7/27/09
Scale 1"=50'	REVIEWED	RMH	8/7/09
Date AUGUST 14, 2009			

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 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



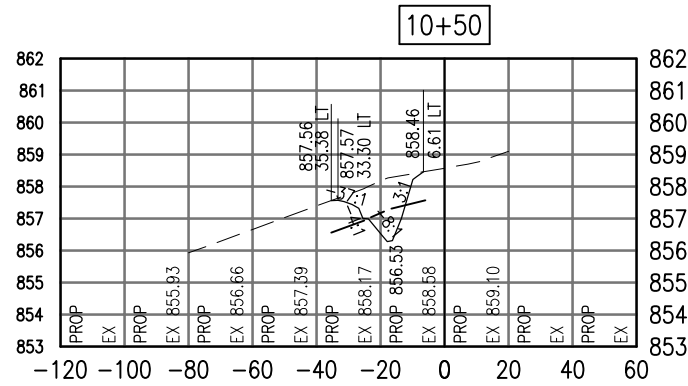
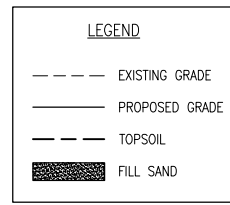
**EARTHWORK SUMMARY IN CUBIC YARDS**

CUT		
On-Site	Unclassified Excavation	138,500
<b>TOTAL REQUIRED</b>		<b>138,500</b>
FILL		
On-Site	Unclassified Excavation	138,500
	Less Shrink (10%)	(13,850)
	<b>Subtotal</b>	<b>124,650</b>
Fill Placed By Others After 14 August 2009 (Not shown in Cross Sections and not in Plan Quantity for Payment)		18,850
		<b>18,850</b>
Off-Site	Fill Sand Placement (1)	26,100
		<b>26,100</b>
	Borrow Excavation (2)	116,000
		<b>116,000</b>
<b>TOTAL REQUIRED BEFORE SHRINK</b>		<b>285,600</b>

(1) QUANTITY IN CUBIC YARDS BASED ON AVERAGE END AREAS. ITEM IS PAID UNDER TONS. AS A PORTION OF THE OUTER LIMITS OF THE PLACEMENT IS UNCONFINED, A LOSS OF AN ADDITIONAL 5 PERCENT IS INCLUDED IN THE BID QUANTITY.

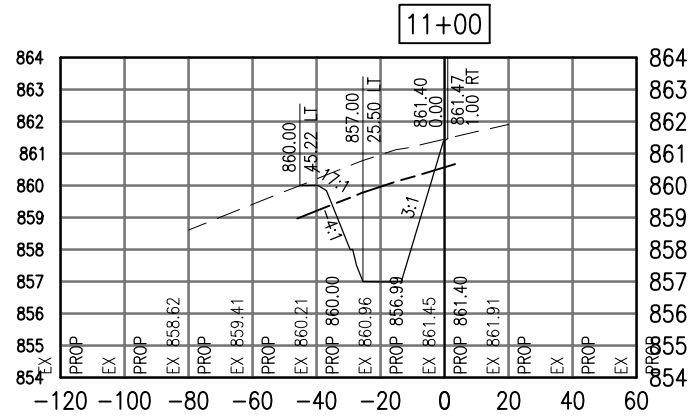
(2) ITEM IS MEASURED IN PLACE WITHIN CONSTRUCTION LIMITS. CONTRACTOR SHALL ACCOUNT FOR MATERIAL SHRINKAGE FROM COMPACTION IN HIS BID.

CROSS SECTIONS AND VOLUME CALCULATIONS DO NOT INCLUDE 14,850 CUBIC YARDS OF FILL MATERIAL AND 4,000 CUBIC YARDS OF TOPSOIL TO BE PLACED WITHIN THE SITE LIMITS BY OTHERS AFTER AUGUST 14, 2009 AND BEFORE START OF THIS PROJECT. THESE AMOUNTS HAVE BEEN SUBTRACTED IN THE BID QUANTITIES - SEE EARTHWORK SUMMARY, THIS SHEET.



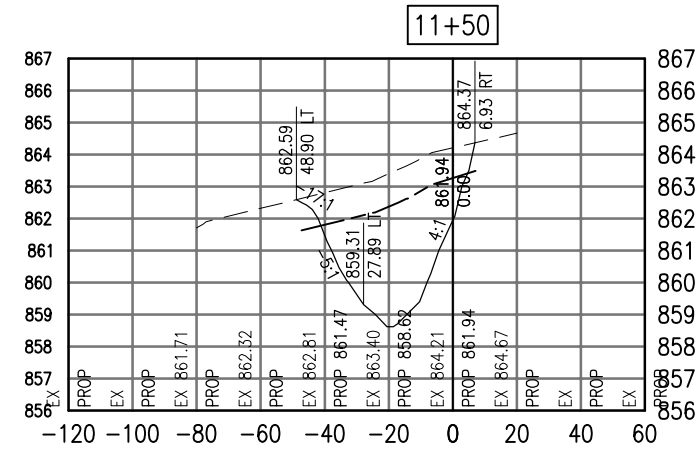
Total Volume at Station 10+50.00	
Cut Area	24.31
Fill Area	0.00
Cut Vol	13.42
Fill Vol	0.00
Cum Cut Vol	13.42
Cum Fill Vol	0.00
Net Vol	13.42

Material(s) at Station 10+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	28.78	22.30	22.30



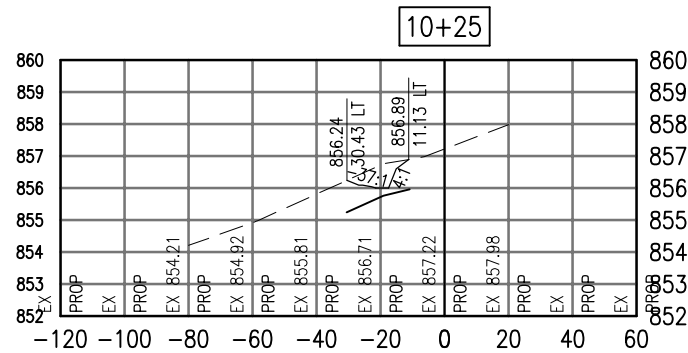
Total Volume at Station 11+00.00	
Cut Area	101.09
Fill Area	0.14
Cut Vol	72.31
Fill Vol	0.07
Cum Cut Vol	122.49
Cum Fill Vol	0.07
Net Vol	122.42

Material(s) at Station 11+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	47.71	39.61	92.76



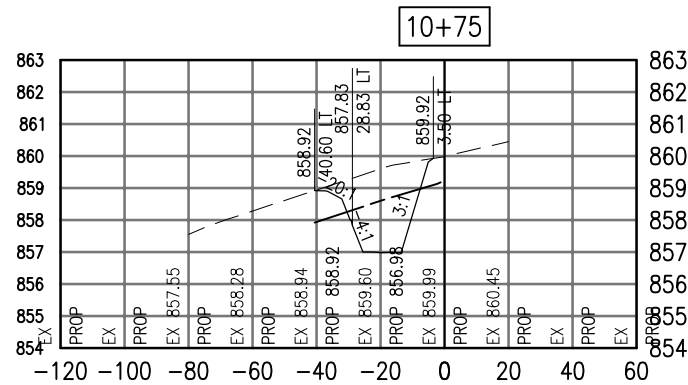
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Cut Area	158.30
Fill Area	0.01
Cut Vol	144.42
Fill Vol	0.06
Cum Cut Vol	384.85
Cum Fill Vol	0.25
Net Vol	384.59

Material(s) at Station 11+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	53.91	50.57	191.03



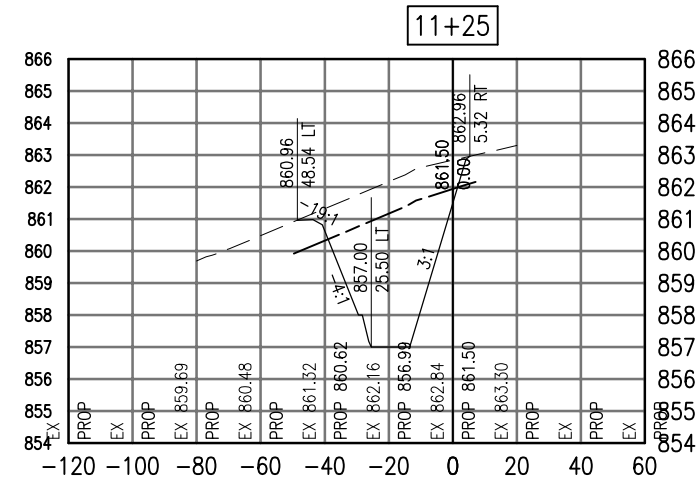
Total Volume at Station 10+25.00	
Cut Area	4.69
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00

Material(s) at Station 10+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	19.39	0.00	0.00



Total Volume at Station 10+75.00	
Cut Area	55.09
Fill Area	0.00
Cut Vol	36.76
Fill Vol	0.00
Cum Cut Vol	50.18
Cum Fill Vol	0.00
Net Vol	50.18

Material(s) at Station 10+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	37.84	30.85	53.14



Total Volume at Station 11+25.00	
Cut Area	153.65
Fill Area	0.12
Cut Vol	117.94
Fill Vol	0.12
Cum Cut Vol	240.43
Cum Fill Vol	0.19
Net Vol	240.23

Material(s) at Station 11+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	55.33	47.70	140.46

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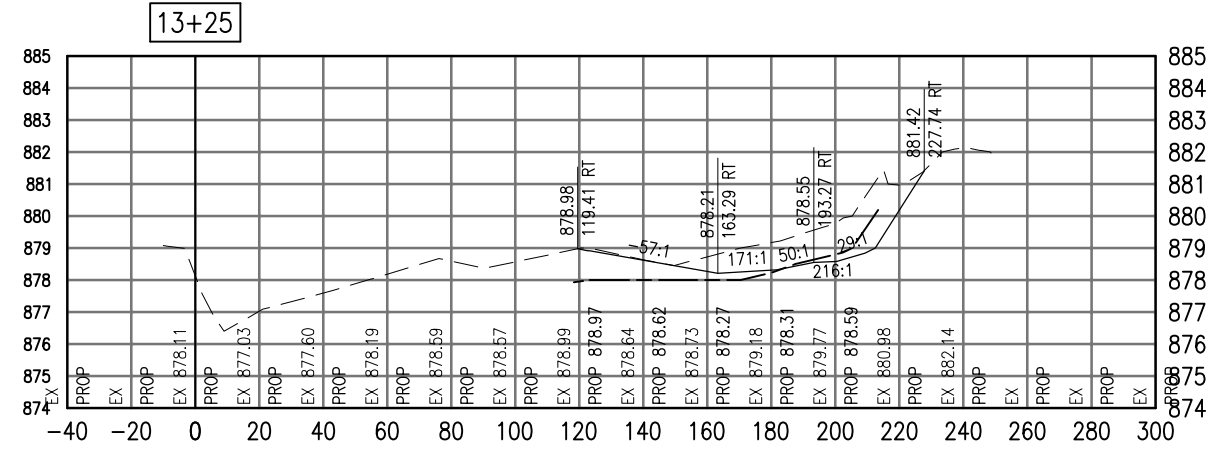
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Filename	ACAD-GROUP1.DWG	BLB	8/13/09
Scale	1"=30'	RMH	8/7/09
Date	AUGUST 14, 2009		

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**CROSS SECTIONS**  
**STA. 10+25 THRU STA. 11+50**  
**CONSTRUCT PARALLEL TAXWAY A,**  
**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

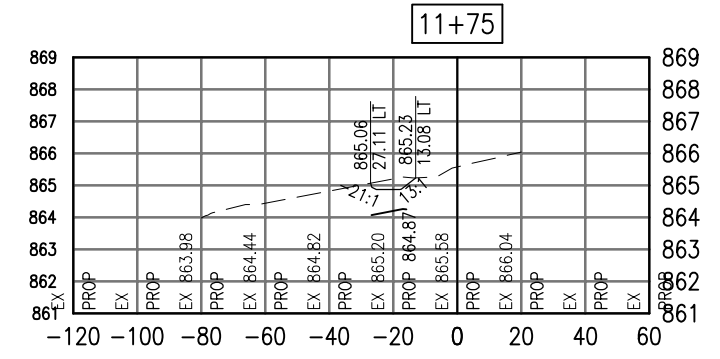
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SEE LEGEND, PAGE 17



Total Volume at Station 13+25.00	
Cut Area	58.11
Fill Area	0.03
Cut Vol	170.14
Fill Vol	0.07
Cum Cut Vol	629.73
Cum Fill Vol	0.33
Net Vol	629.40

Material(s) at Station 13+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	78.35	247.92	468.96



Total Volume at Station 11+75.00	
Cut Area	3.14
Fill Area	0.00
Cut Vol	74.74
Fill Vol	0.00
Cum Cut Vol	459.59
Cum Fill Vol	0.26
Net Vol	459.33

Material(s) at Station 11+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	10.91	30.01	221.04

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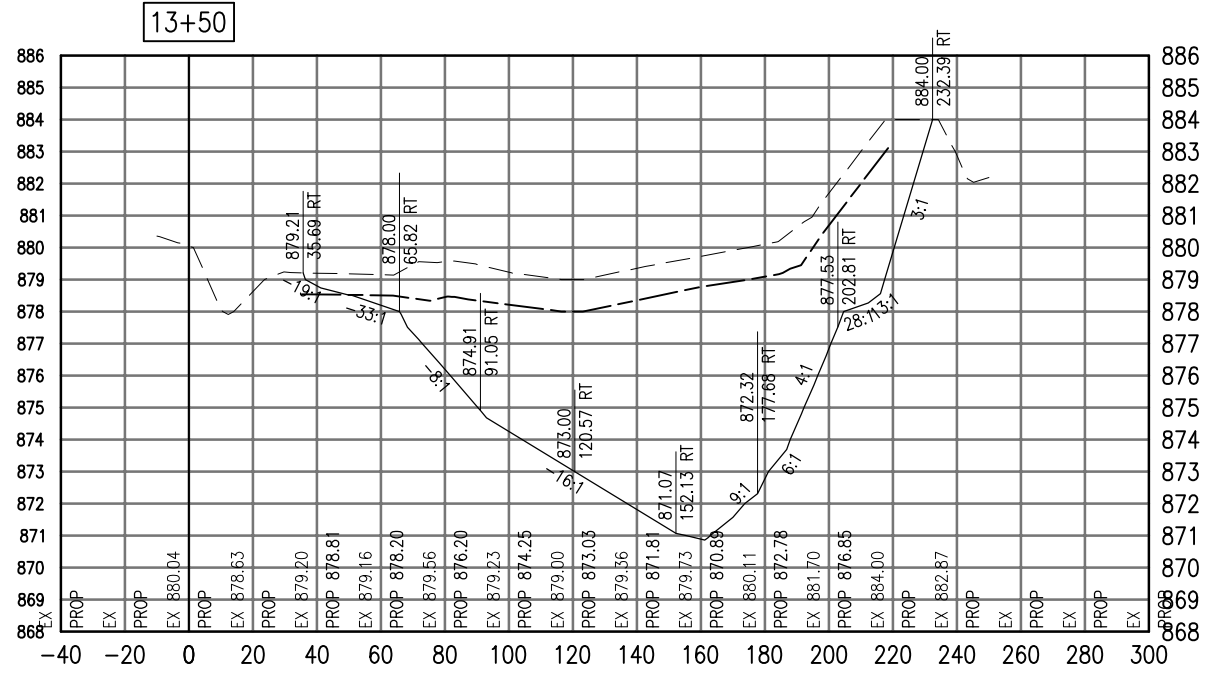


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Scale	1"=30'
Date	AUGUST 14, 2009
LAYOUT	LDH 8/13/09
DRAWN	BLB 8/13/09
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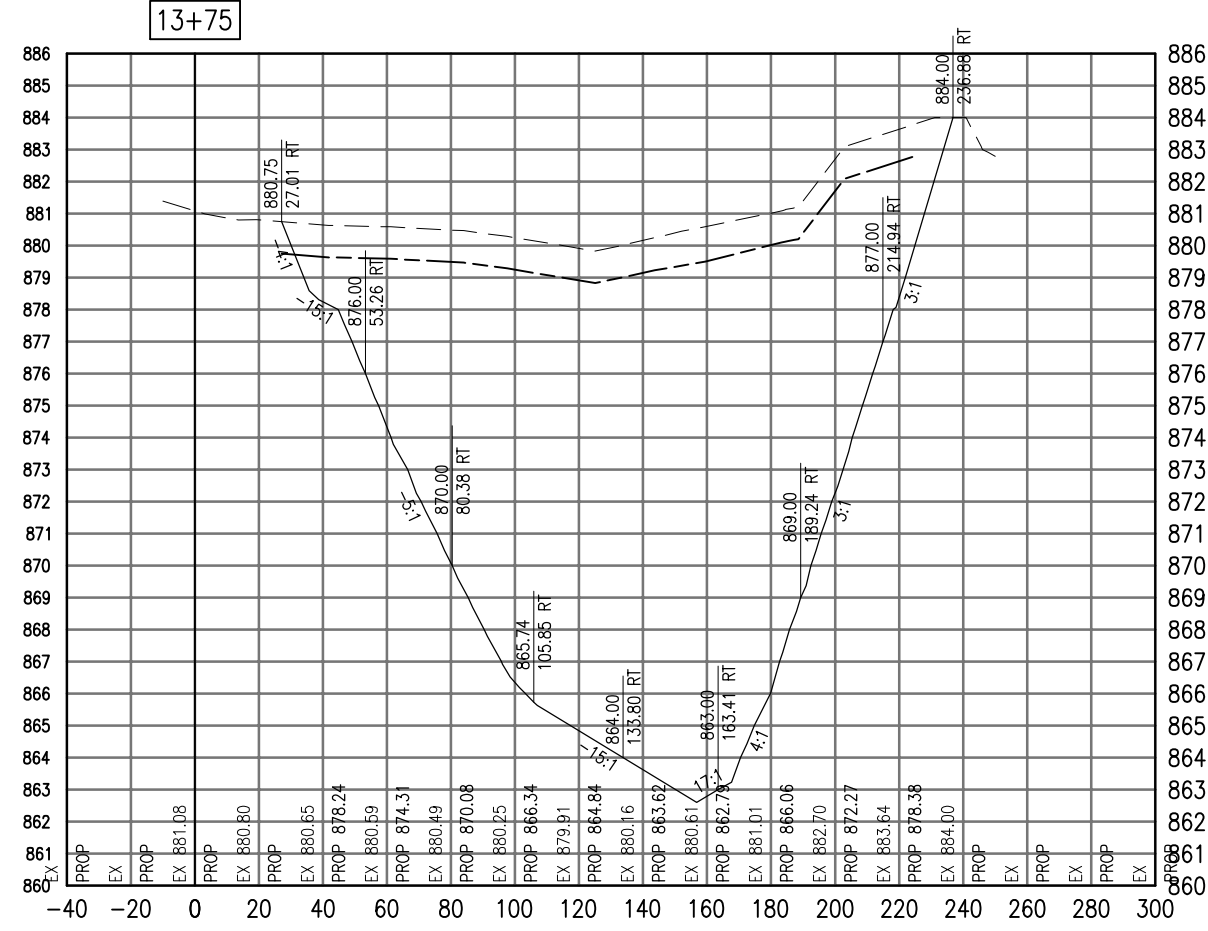
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**CONSTRUCT PARALLEL TAXIWAY A,**  
**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 13+50.00	
Cut Area	927.54
Fill Area	0.03
Cut Vol	456.32
Fill Vol	0.02
Cum Cut Vol	1086.05
Cum Fill Vol	0.35
Net Vol	1085.69

Material(s) at Station 13+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	176.81	118.13	587.09



Total Volume at Station 13+75.00	
Cut Area	2223.68
Fill Area	0.00
Cut Vol	1458.90
Fill Vol	0.01
Cum Cut Vol	2544.95
Cum Fill Vol	0.37
Net Vol	2544.58

Material(s) at Station 13+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	199.10	174.03	761.12

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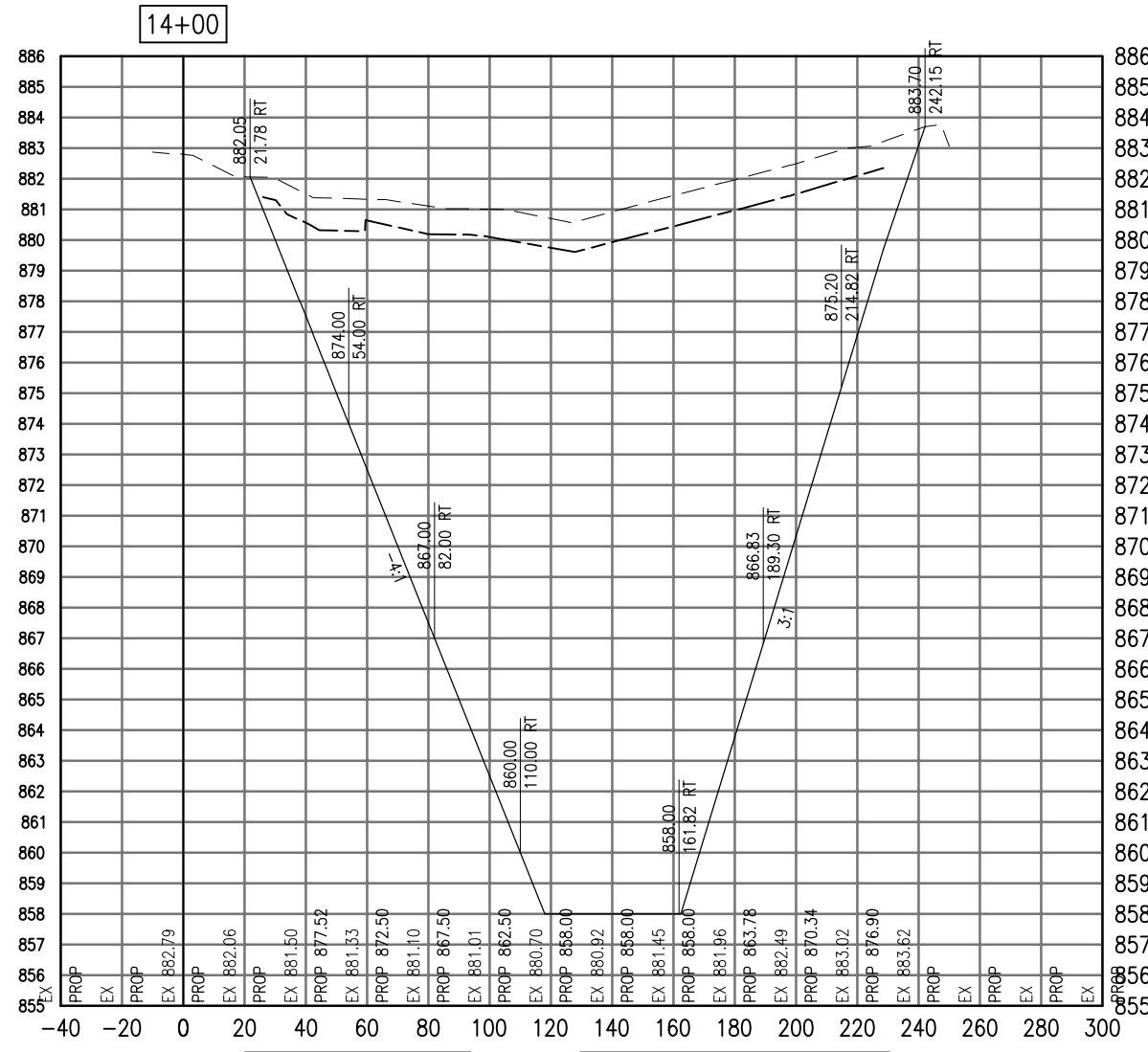


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Filename	ACAD-GROUP1.DWG
Scale	1"=30'
Date	AUGUST 14, 2009
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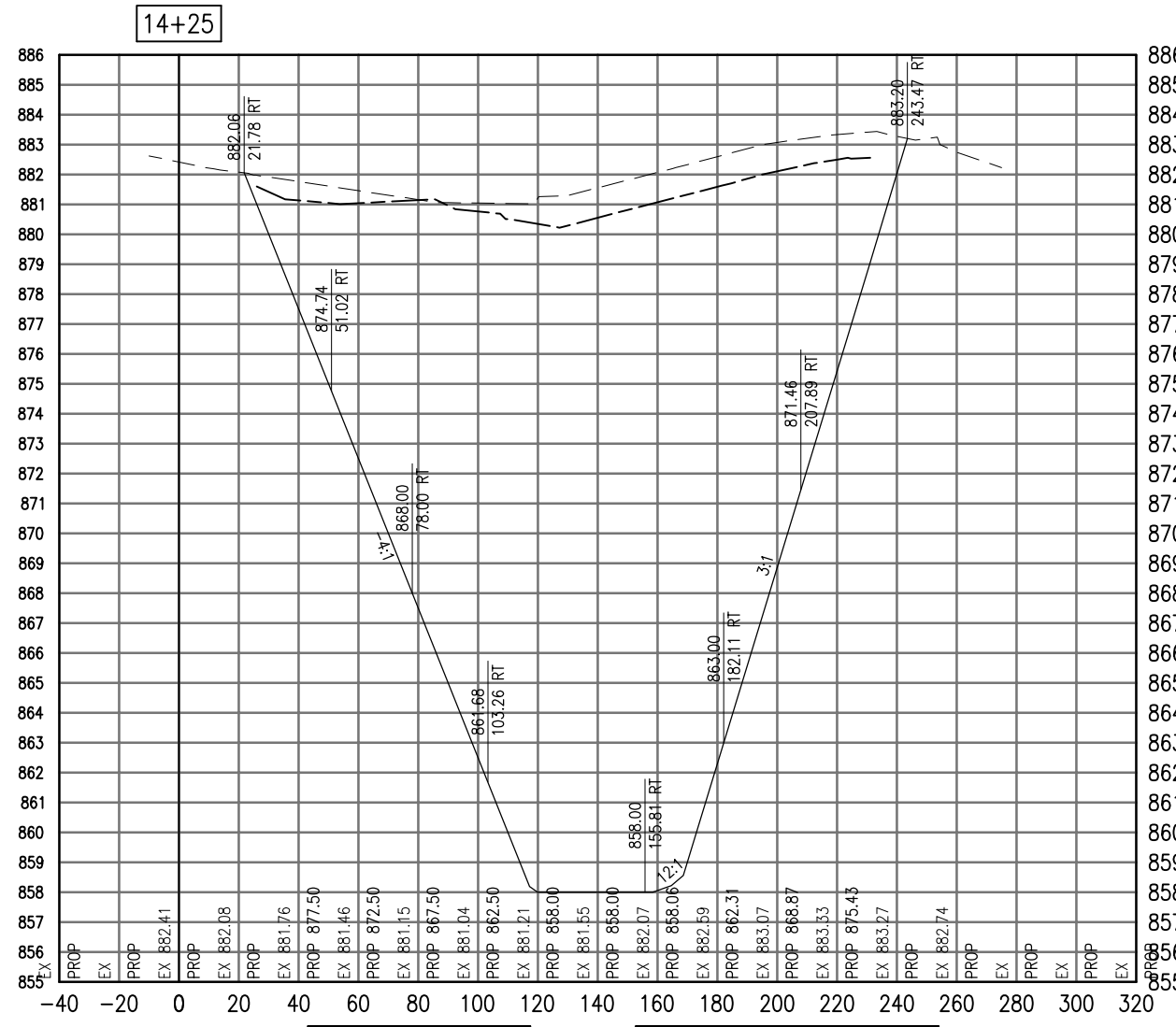
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 CONSTRUCT PARALLEL TAXWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Cut Area	2994.14
Fill Area	0.00
Cut Vol	2415.66
Fill Vol	0.00
Cum Cut Vol	4960.60
Cum Fill Vol	0.37
Net Vol	4960.24

Material Name	Area	Volume	Cumulative Volume
Cut	192.08	181.10	942.22



Cut Area	3170.41
Fill Area	0.00
Cut Vol	2853.96
Fill Vol	0.00
Cum Cut Vol	7814.56
Cum Fill Vol	0.37
Net Vol	7814.19

Material Name	Area	Volume	Cumulative Volume
Cut	142.35	154.83	1097.05

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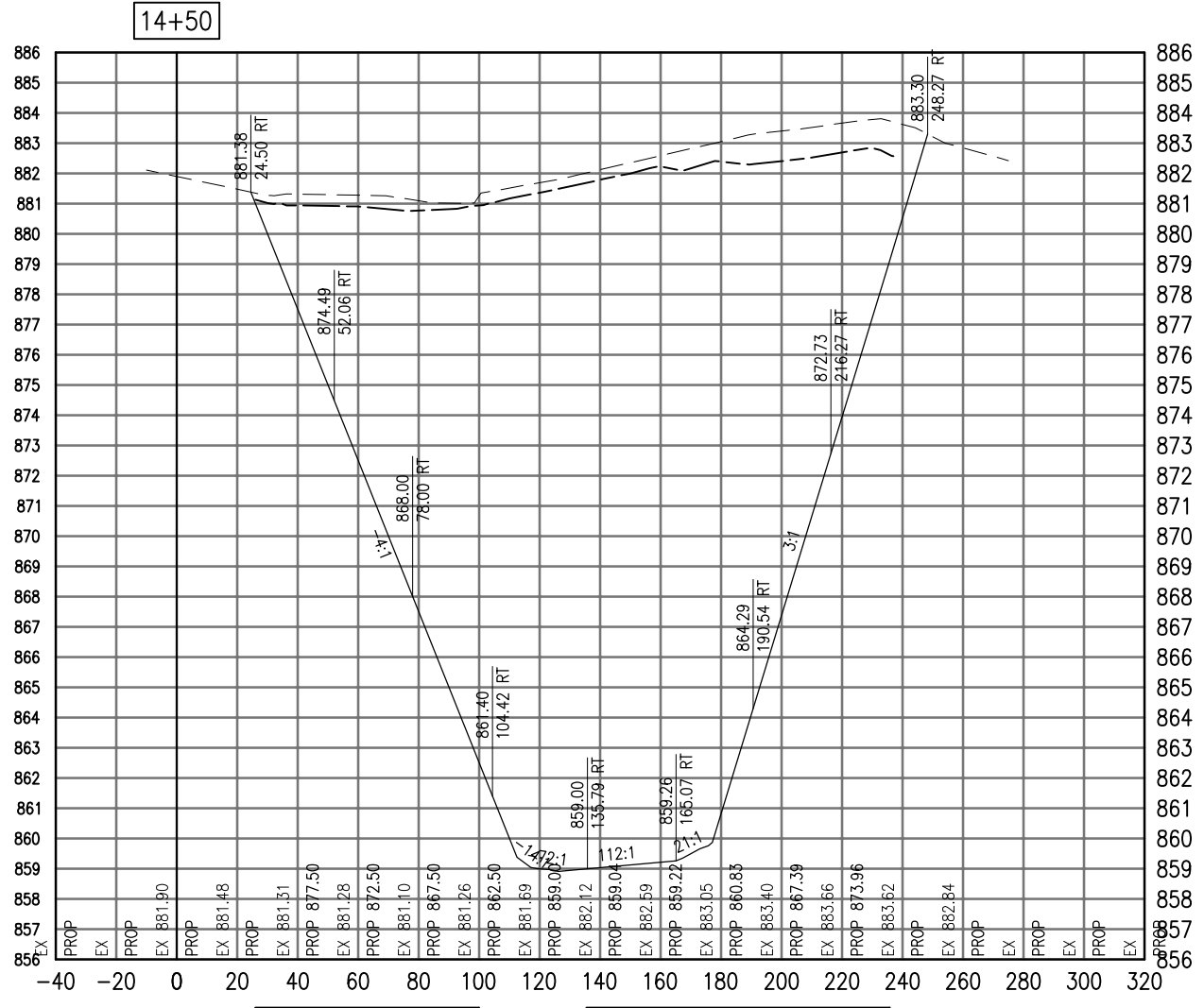


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Date	AUGUST 14, 2009	
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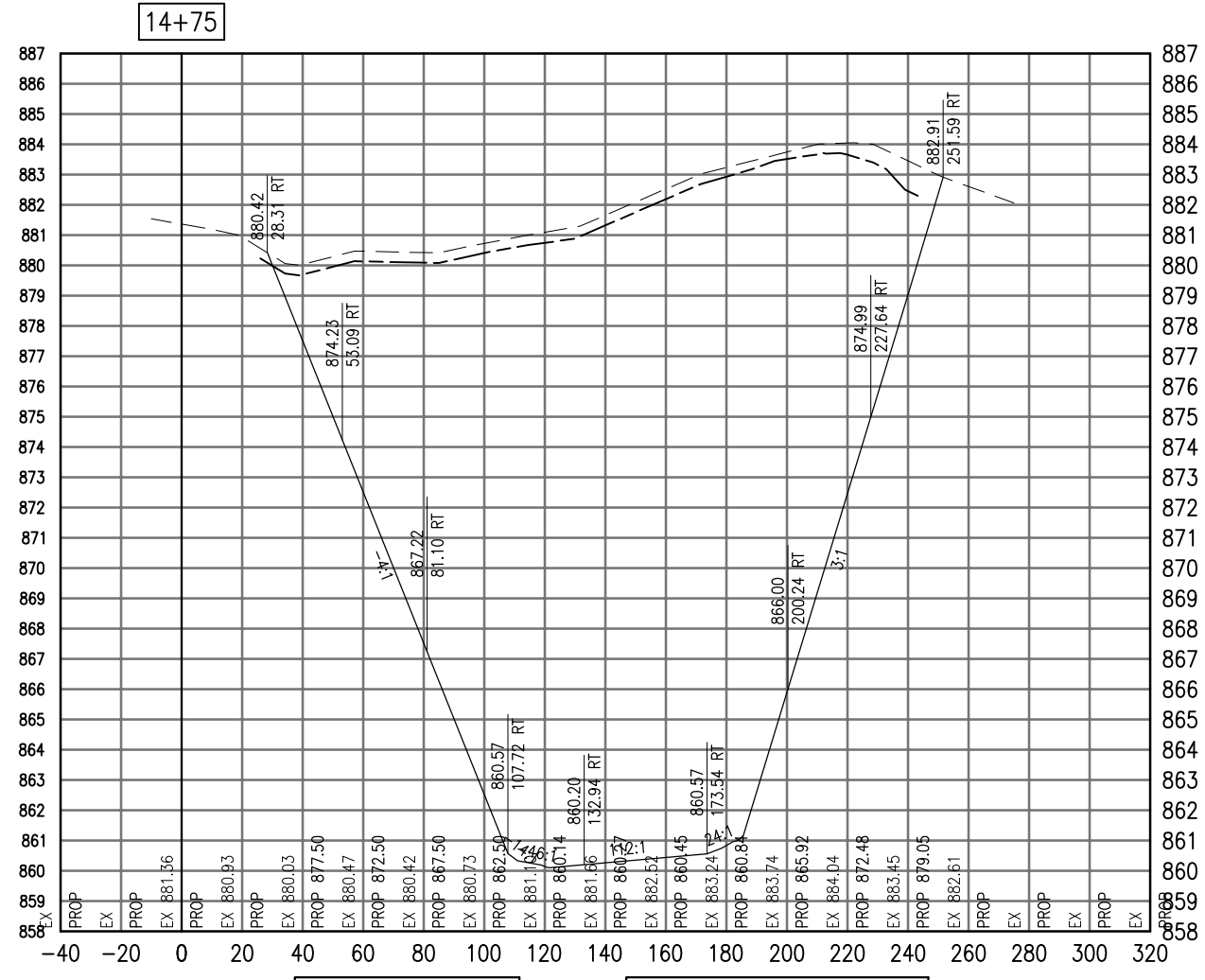
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CONSTRUCT PARALLEL TAXIWAY A,  
STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 14+50.00	
Cut Area	3271.32
Fill Area	0.00
Cut Vol	2982.28
Fill Vol	0.00
Cum Cut Vol	10796.84
Cum Fill Vol	0.37
Net Vol	10796.47

Material(s) at Station 14+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	110.93	117.26	1214.31



Total Volume at Station 14+75.00	
Cut Area	3228.23
Fill Area	0.00
Cut Vol	3009.05
Fill Vol	0.00
Cum Cut Vol	13805.89
Cum Fill Vol	0.37
Net Vol	13805.52

Material(s) at Station 14+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	78.73	87.80	1302.11

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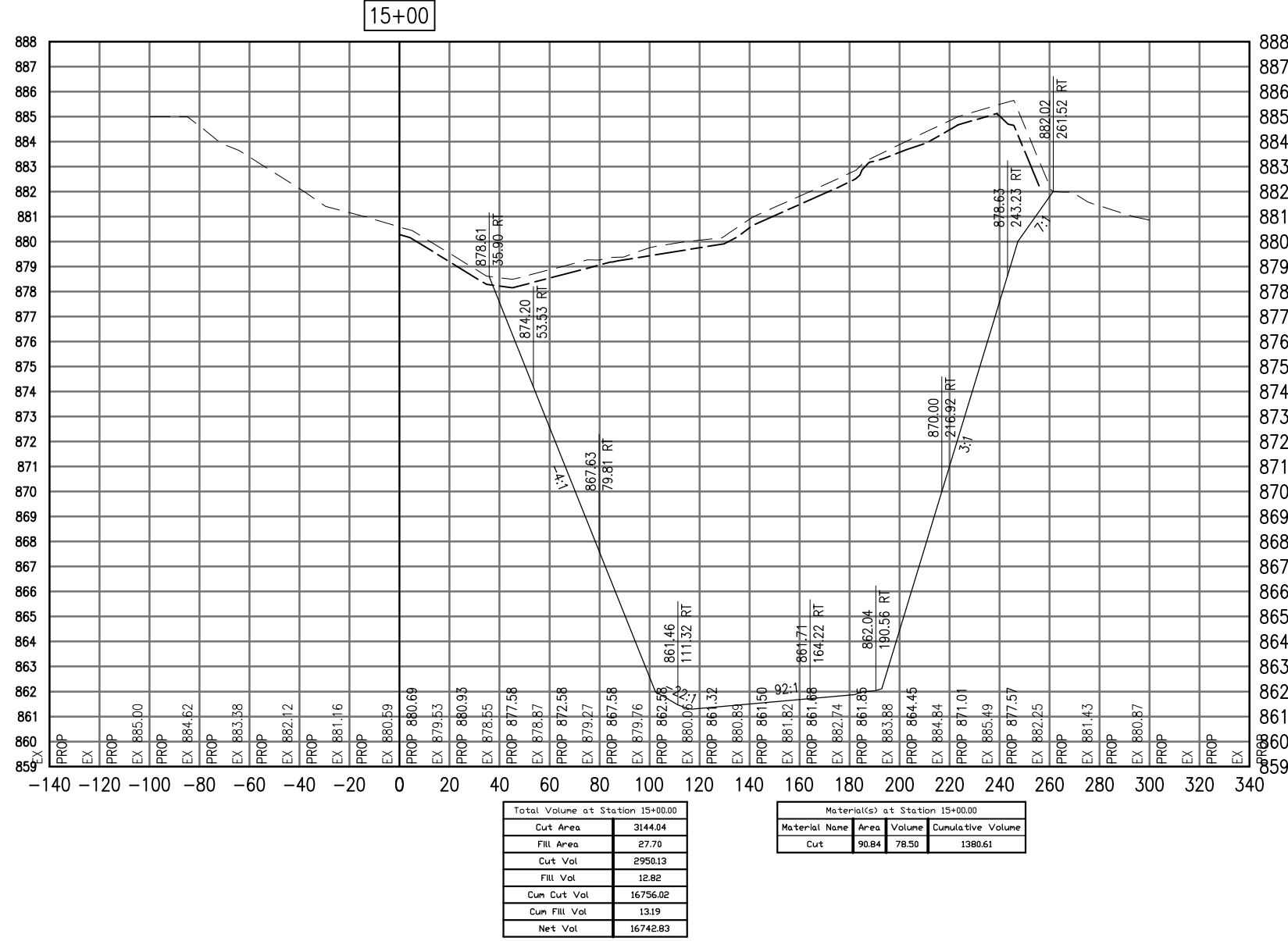


Revision No.	Description	Date	By	Check
08A0150	ACAD-GROUP1.DWG	AUGUST 14, 2009	LDH	8/13/09
1	1"=30'		BLB	8/13/09
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**STAGE 1, GRADING AND DRAINAGE**  
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SEE LEGEND, PAGE 17



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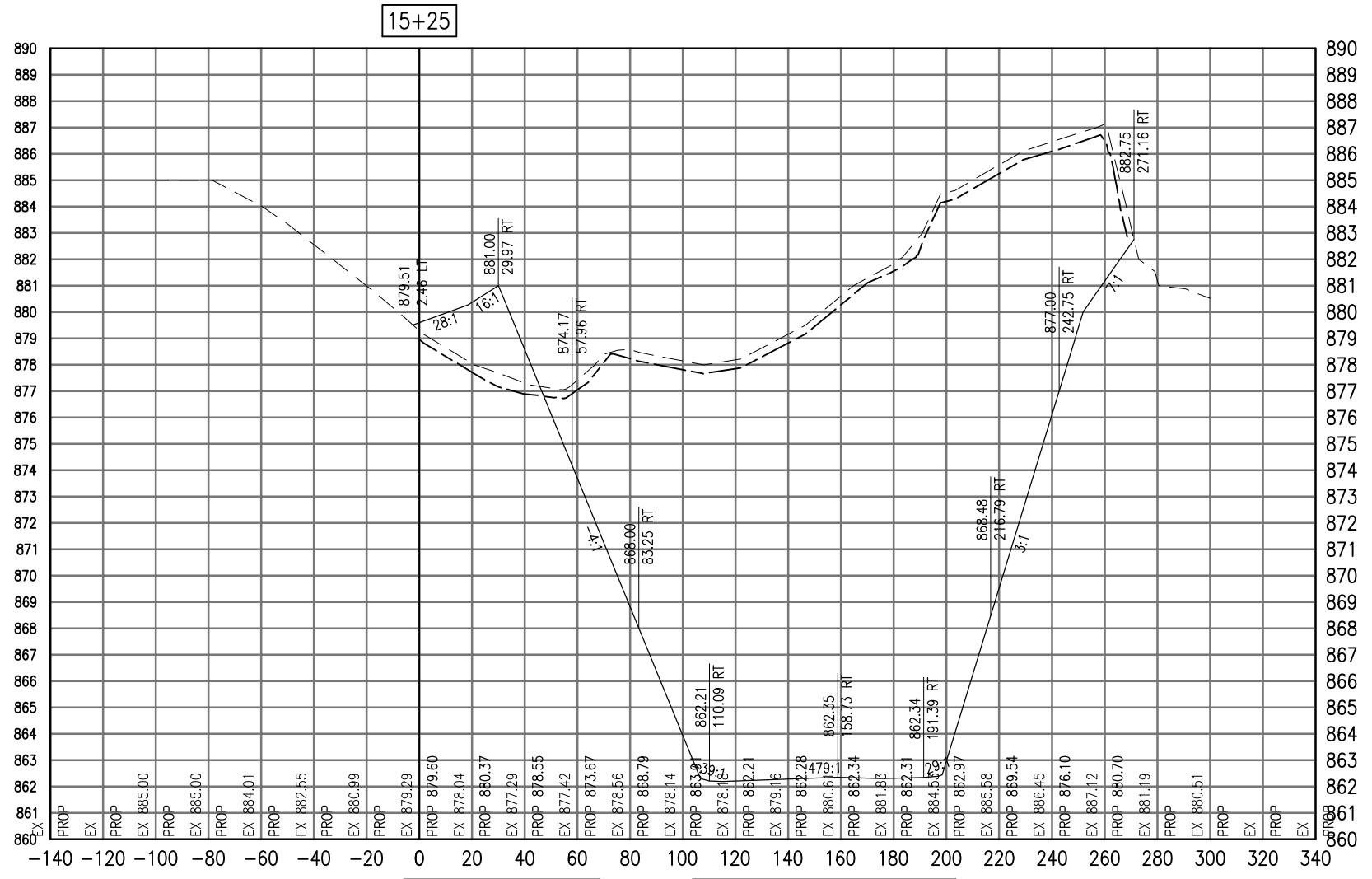


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Date	AUGUST 14, 2009
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**STA. 15+00**  
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**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



15+25

Total Volume at Station 15+25.00	
Cut Area	3022.62
Fill Area	81.13
Cut Vol	2854.94
Fill Vol	50.38
Cum Cut Vol	19610.95
Cum Fill Vol	63.57
Net Vol	19547.38

Material(s) at Station 15+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	95.68	86.35	1466.96

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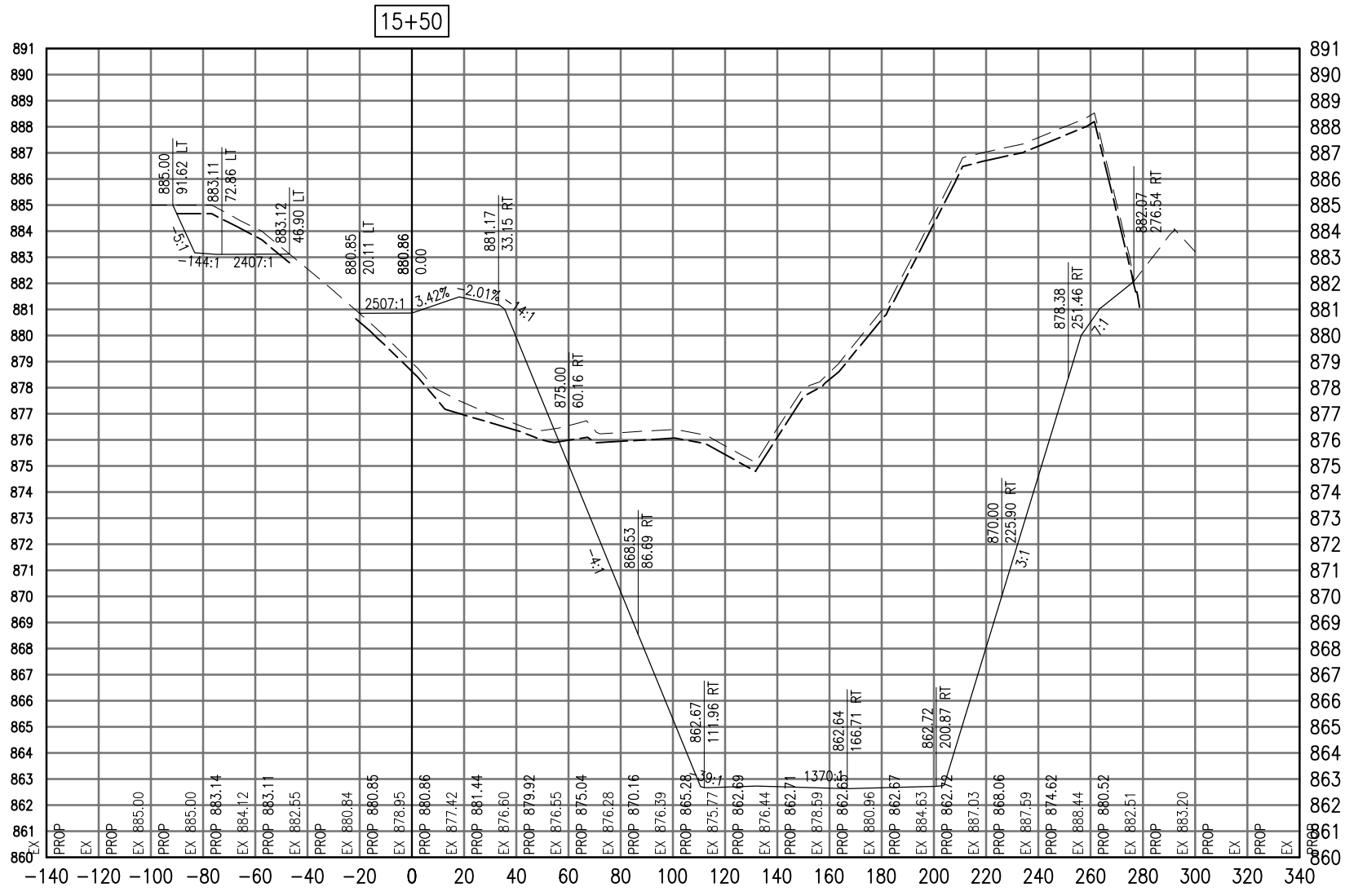


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**STAGE 1, GRADING AND DRAINAGE**  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 15+50.00	
Cut Area	2882.42
Fill Area	188.83
Cut Vol	2733.82
Fill Vol	124.98
Cum Cut Vol	22344.77
Cum Fill Vol	188.55
Net Vol	22156.21

Material(s) at Station 15+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	119.29	99.52	1566.48

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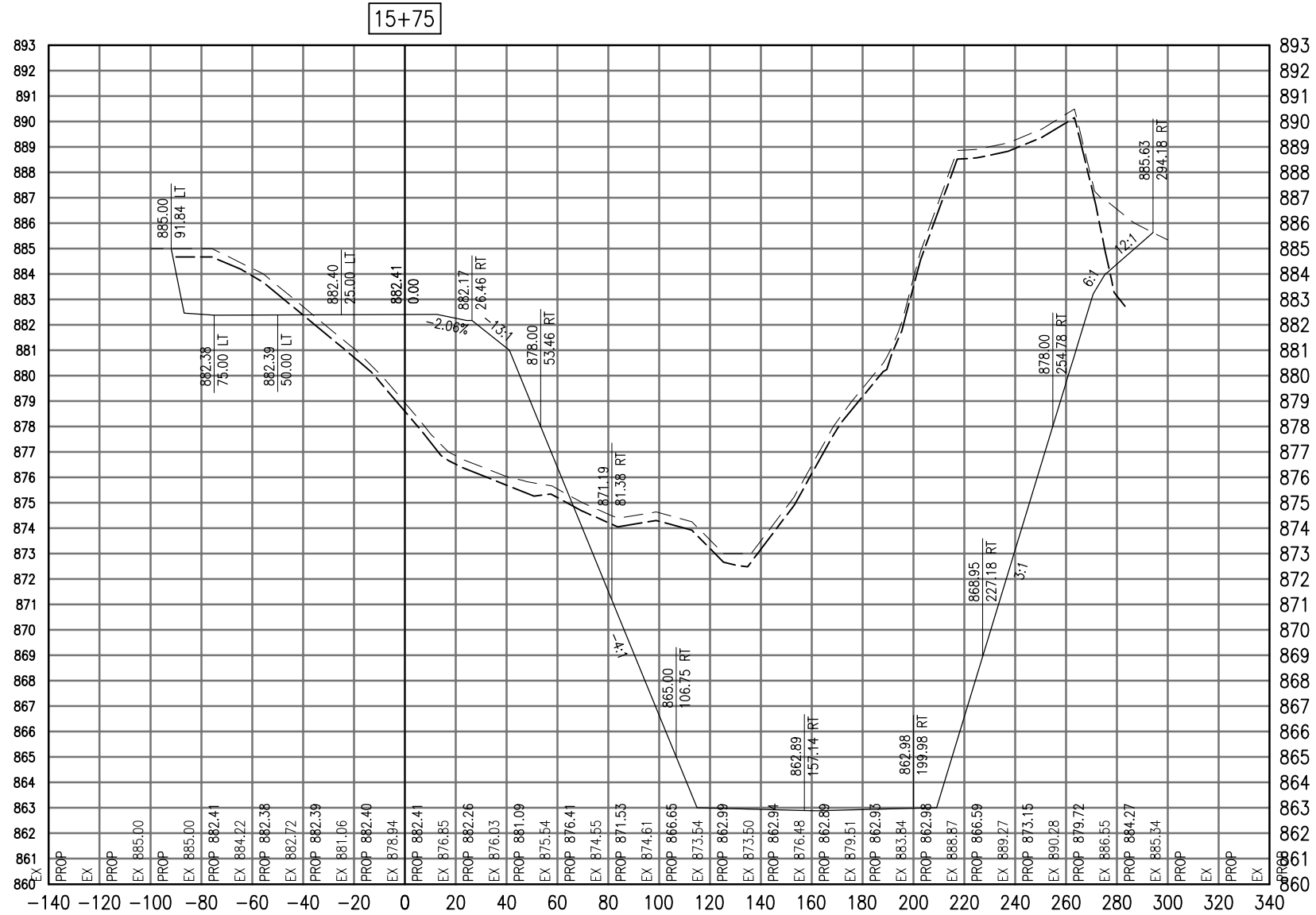
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**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



SEE LEGEND, PAGE 17



Total Volume at Station 15+75.00	
Cut Area	2757.69
Fill Area	151.10
Cut Vol	1276.71
Fill Vol	148.23
Cum Cut Vol	1276.71
Cum Fill Vol	148.23
Net Vol	1128.48

Material(s) at Station 15+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	32018	69.95	69.95

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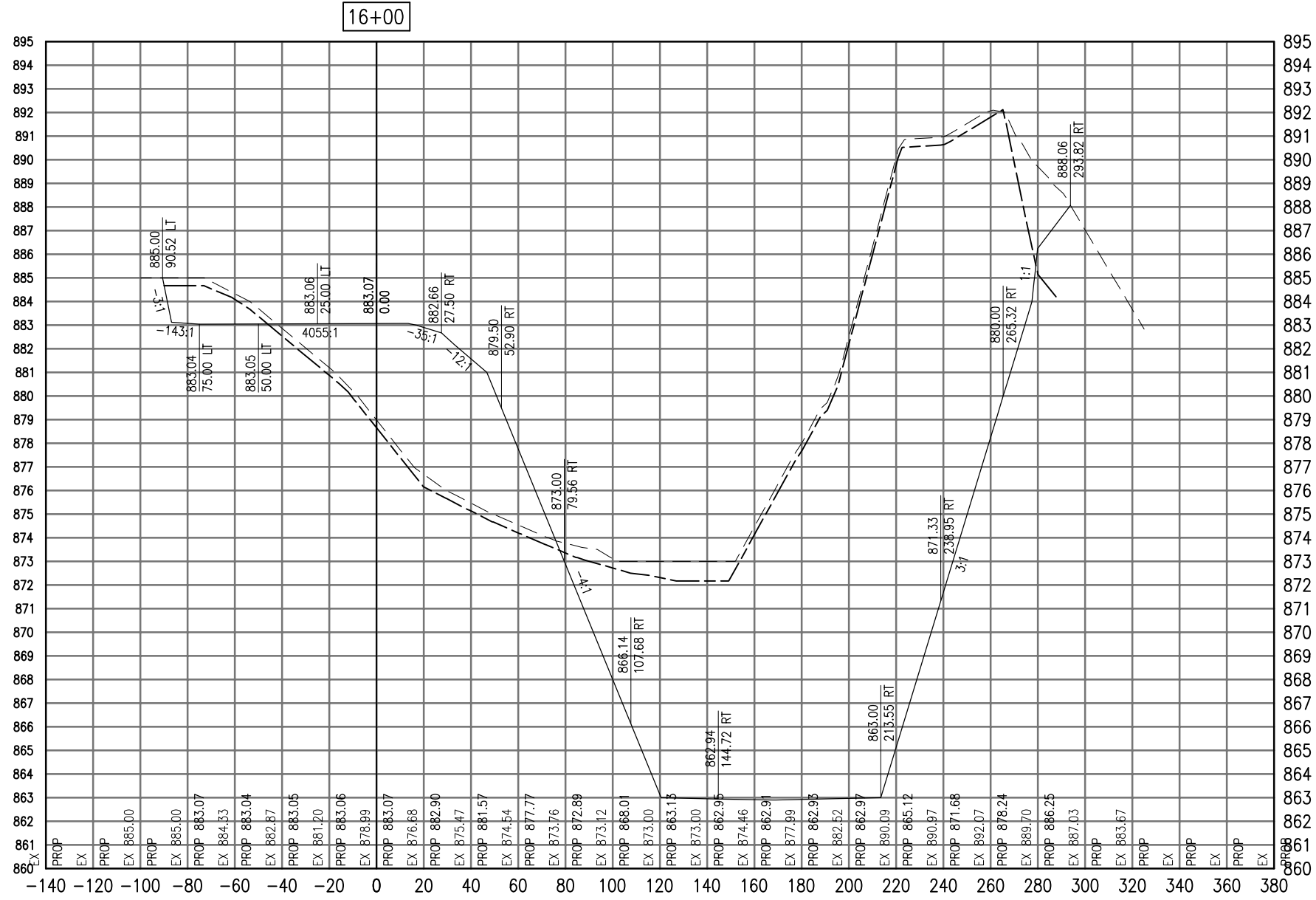


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**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



16+00

Total Volume at Station 16+00.00	
Cut Area	2739.08
Fill Area	437.99
Cut Vol	2544.80
Fill Vol	351.00
Cum Cut Vol	3821.51
Cum Fill Vol	499.23
Net Vol	3322.28

Material(s) at Station 16+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	206.58	165.59	235.54

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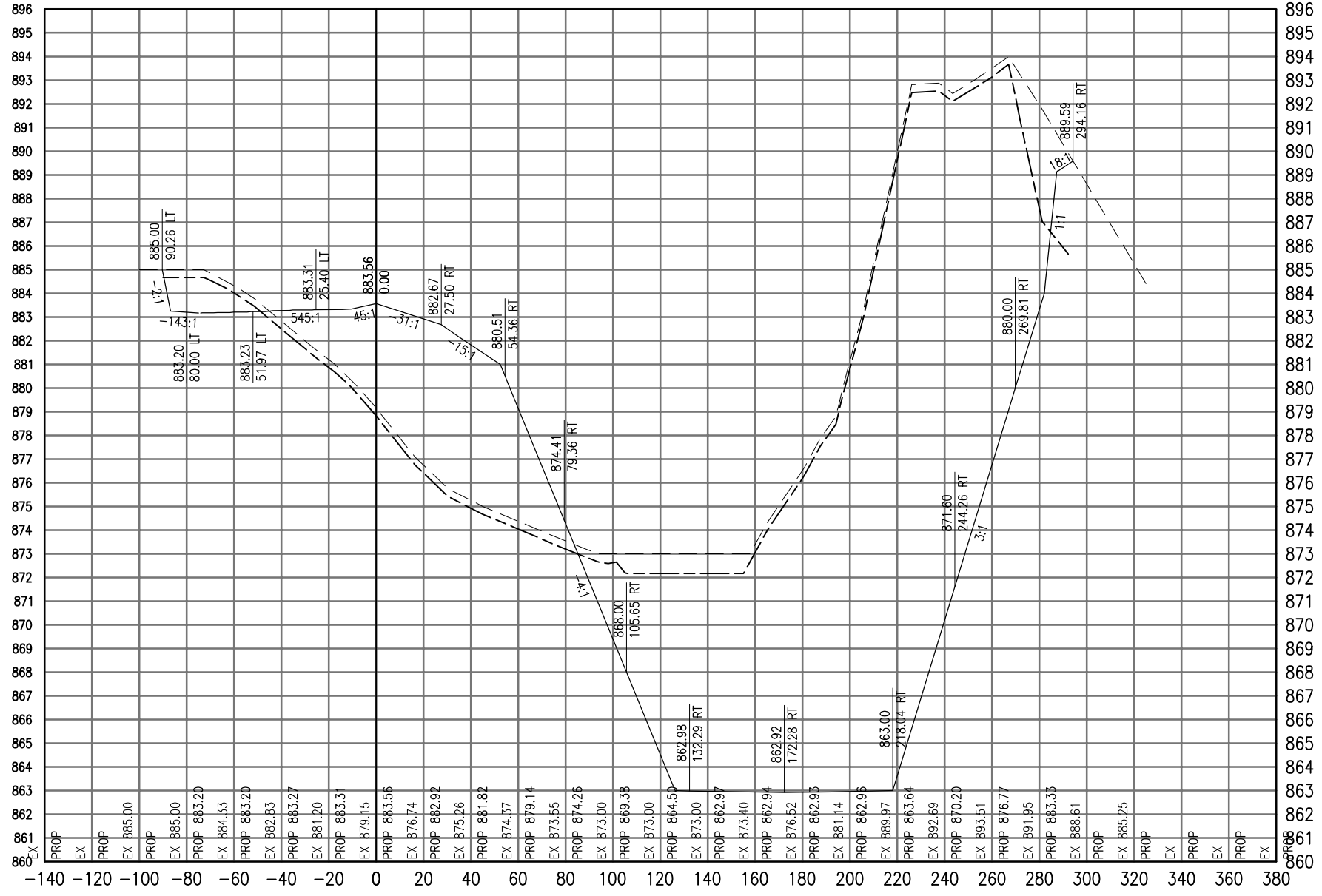
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SEE LEGEND, PAGE 17

16+25



Total Volume at Station 16+25.00	
Cut Area	2807.21
Fill Area	506.09
Cut Vol	2567.73
Fill Vol	437.07
Cum Cut Vol	6389.24
Cum Fill Vol	936.30
Net Vol	5452.93

Material(s) at Station 16+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	231.89	203.00	438.54

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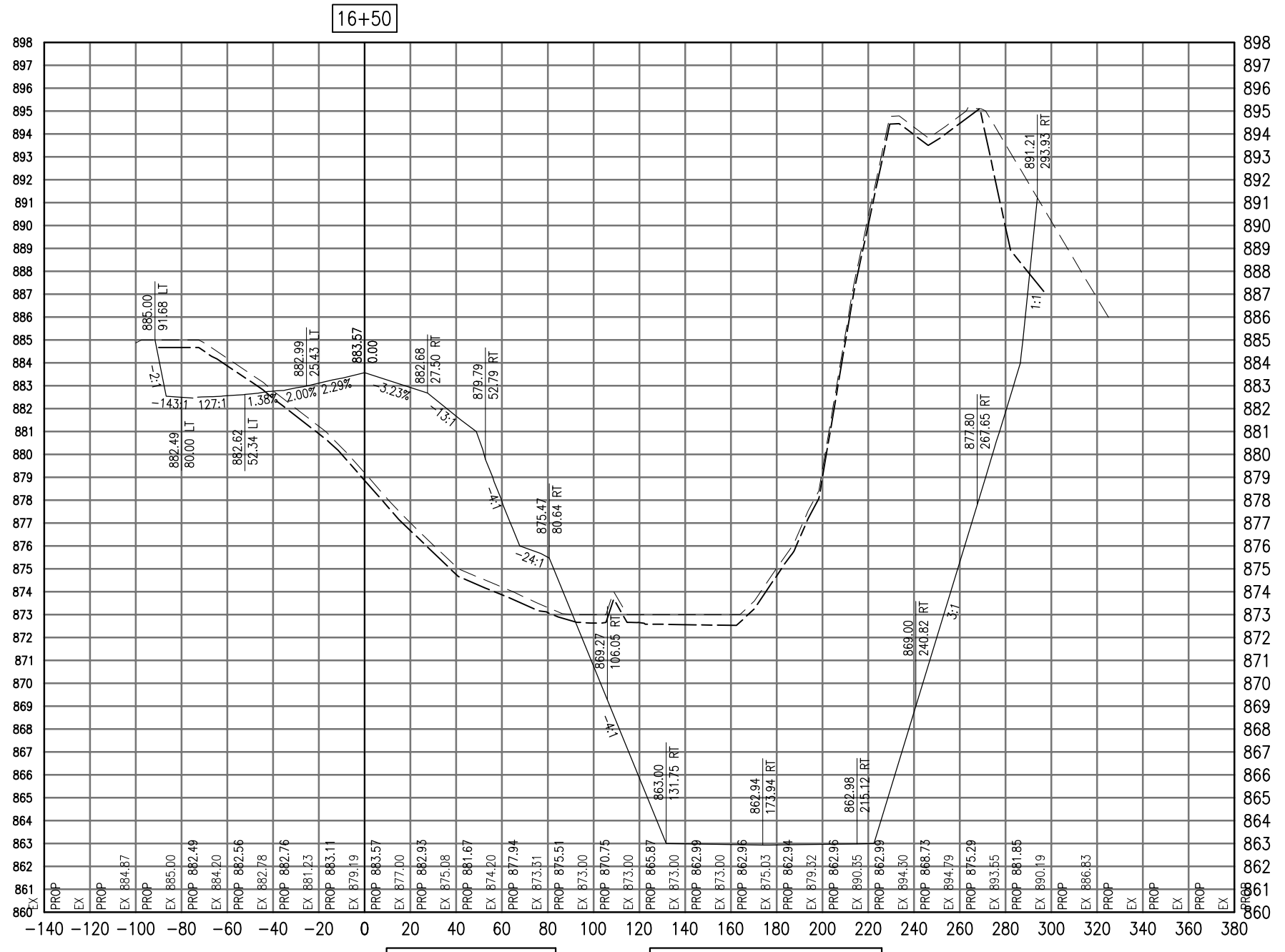


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IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



16+50

Total Volume at Station 16+50.00	
Cut Area	2934.03
Fill Area	487.74
Cut Vol	2657.98
Fill Vol	460.10
Cum Cut Vol	9047.22
Cum Fill Vol	1396.41
Net Vol	7650.81

Material(s) at Station 16+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	209.70	204.44	642.98

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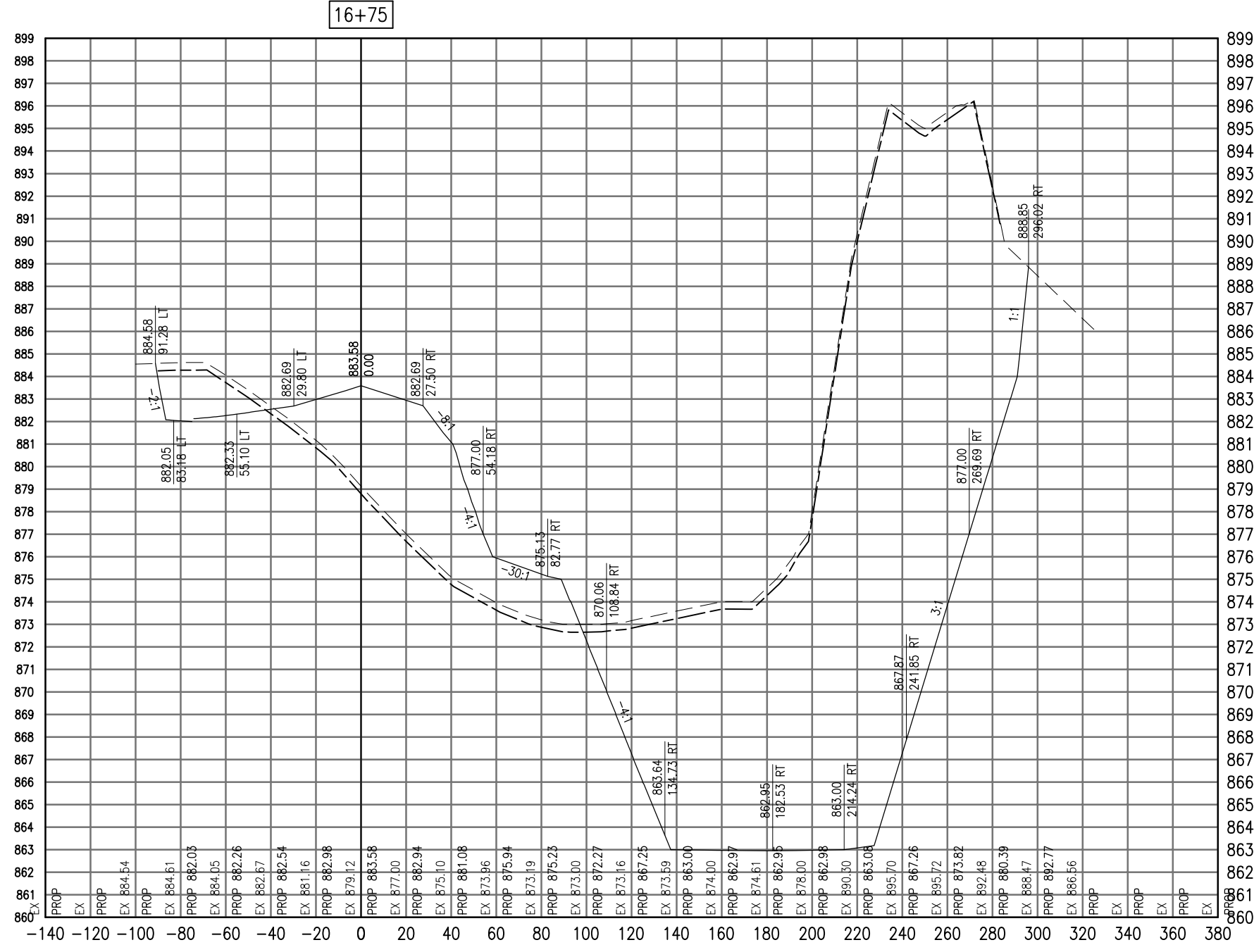


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16+75

Total Volume at Station 16+75.00	
Cut Area	3007.53
Fill Area	461.25
Cut Vol	2750.72
Fill Vol	439.35
Cum Cut Vol	11797.94
Cum Fill Vol	1835.75
Net Vol	9962.18

Material(s) at Station 16+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	121.27	153.23	796.21

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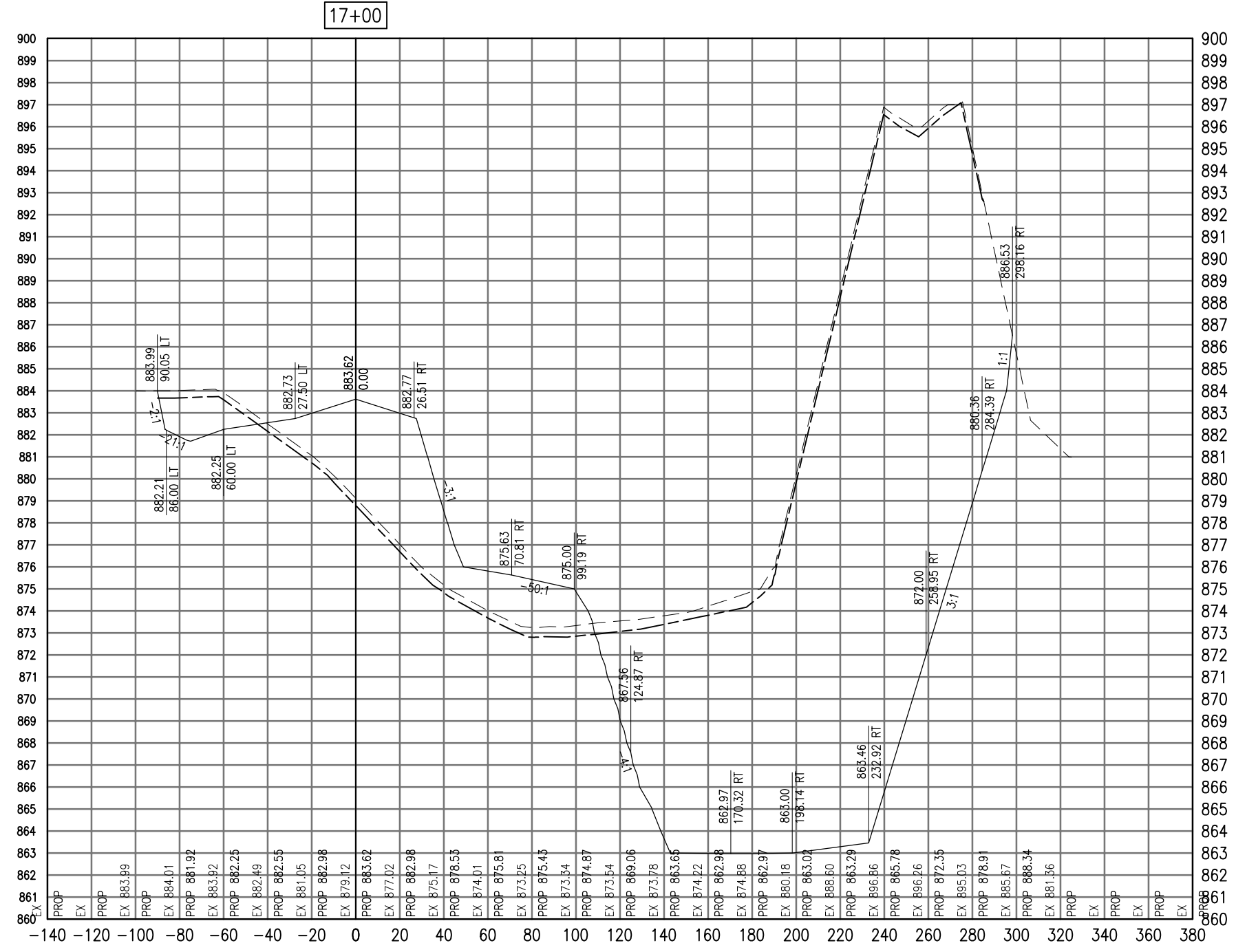


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17+00

Cut Area	3104.49
Fill Area	461.18
Cut Vol	2829.64
Fill Vol	427.05
Cum Cut Vol	14627.58
Cum Fill Vol	2262.81
Net Vol	12364.77

Material Name	Area	Volume	Cumulative Volume
Cut	138.04	120.05	916.26

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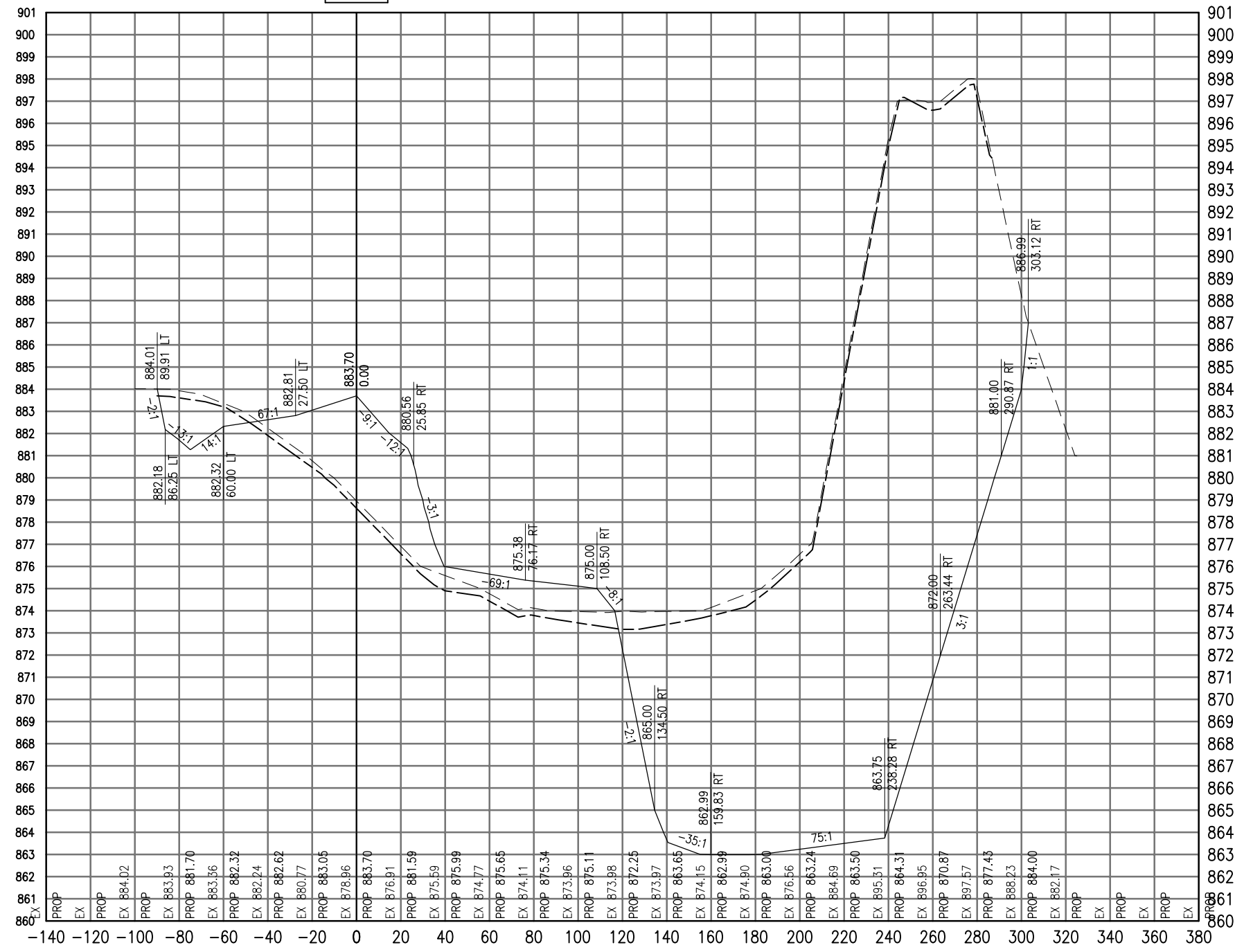
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SEE LEGEND, PAGE 17

17+25



Cut Area	3052.16
Fill Area	351.04
Cut Vol	2850.30
Fill Vol	376.03
Cum Cut Vol	17477.87
Cum Fill Vol	2638.83
Net Vol	14839.04

Material Name	Area	Volume	Cumulative Volume
Cut	146.25	131.62	1047.87

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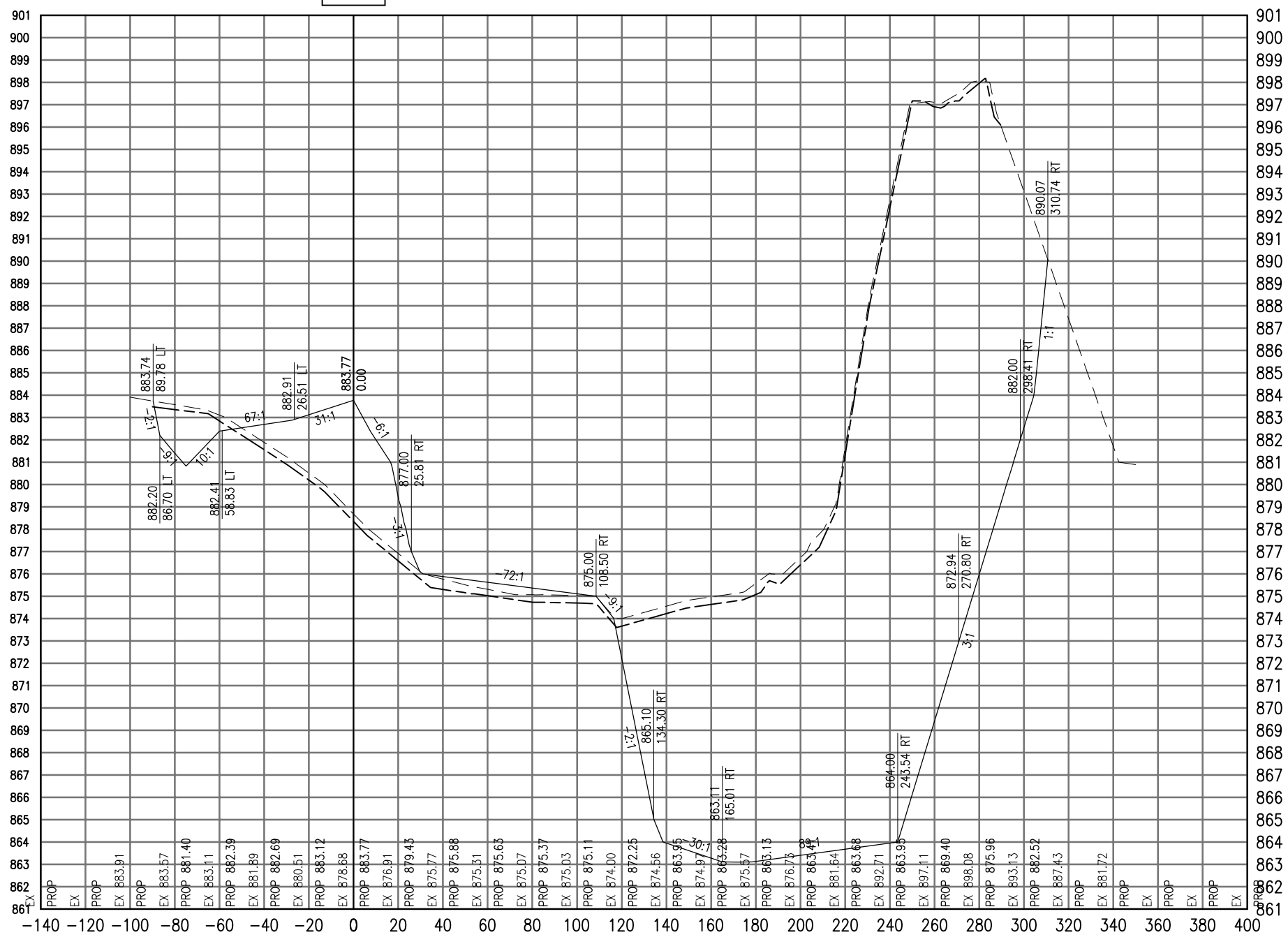
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 STAGE 1, GRADING AND DRAINAGE**  
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17+50



Total Volume at Station 17+50.00	
Cut Area	3181.32
Fill Area	233.06
Cut Vol	2885.87
Fill Vol	276.42
Cum Cut Vol	20363.74
Cum Fill Vol	2909.25
Net Vol	17454.49

Material(s) at Station 17+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	120.33	123.42	1171.29

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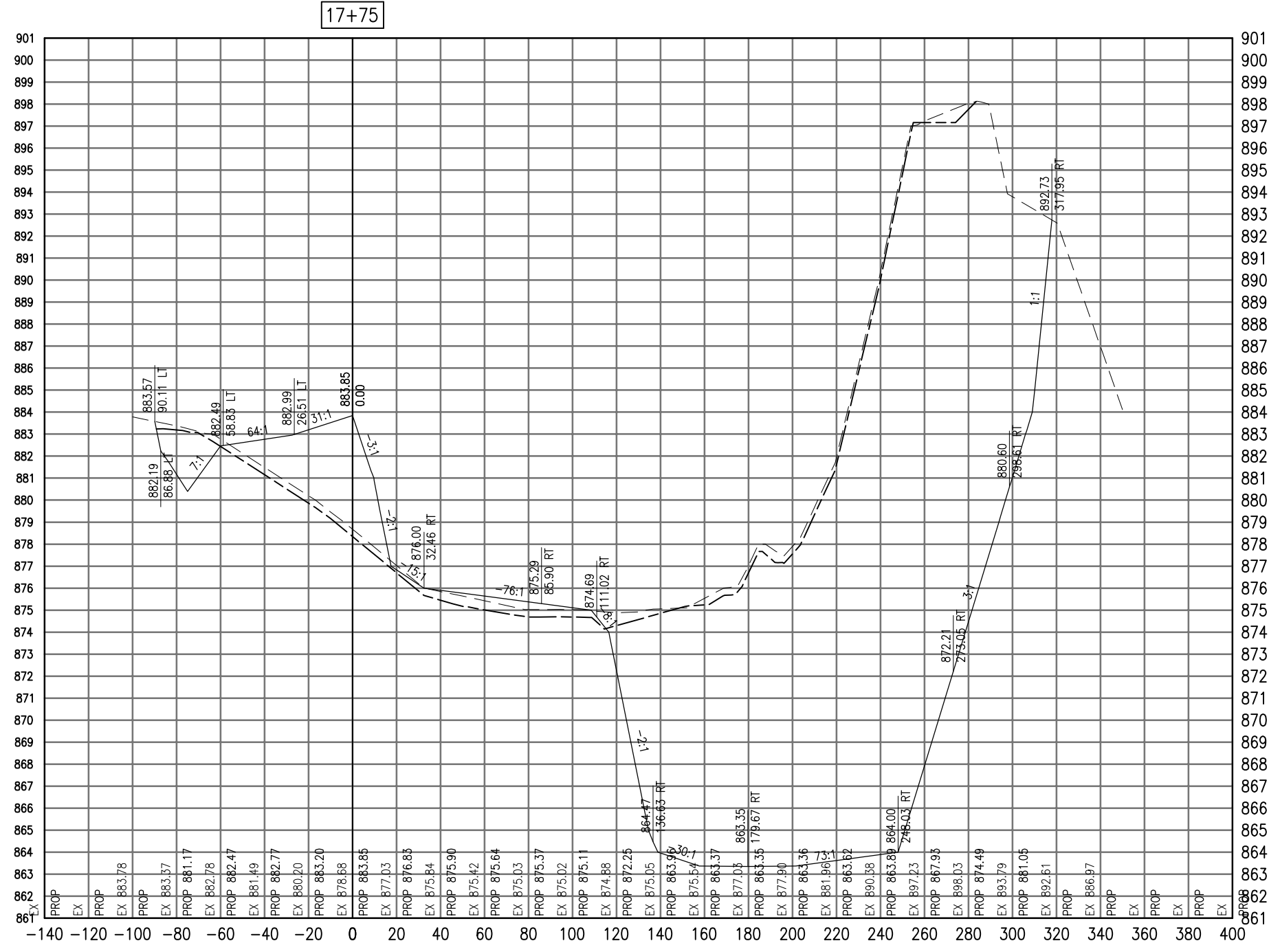
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17+75

Cut Area	3397.10
Fill Area	198.86
Cut Vol	1572.73
Fill Vol	92.06
Cum Cut Vol	1572.73
Cum Fill Vol	92.06
Net Vol	1480.67

Material Name	Area	Volume	Cumulative Volume
Cut	122.21	56.58	56.58

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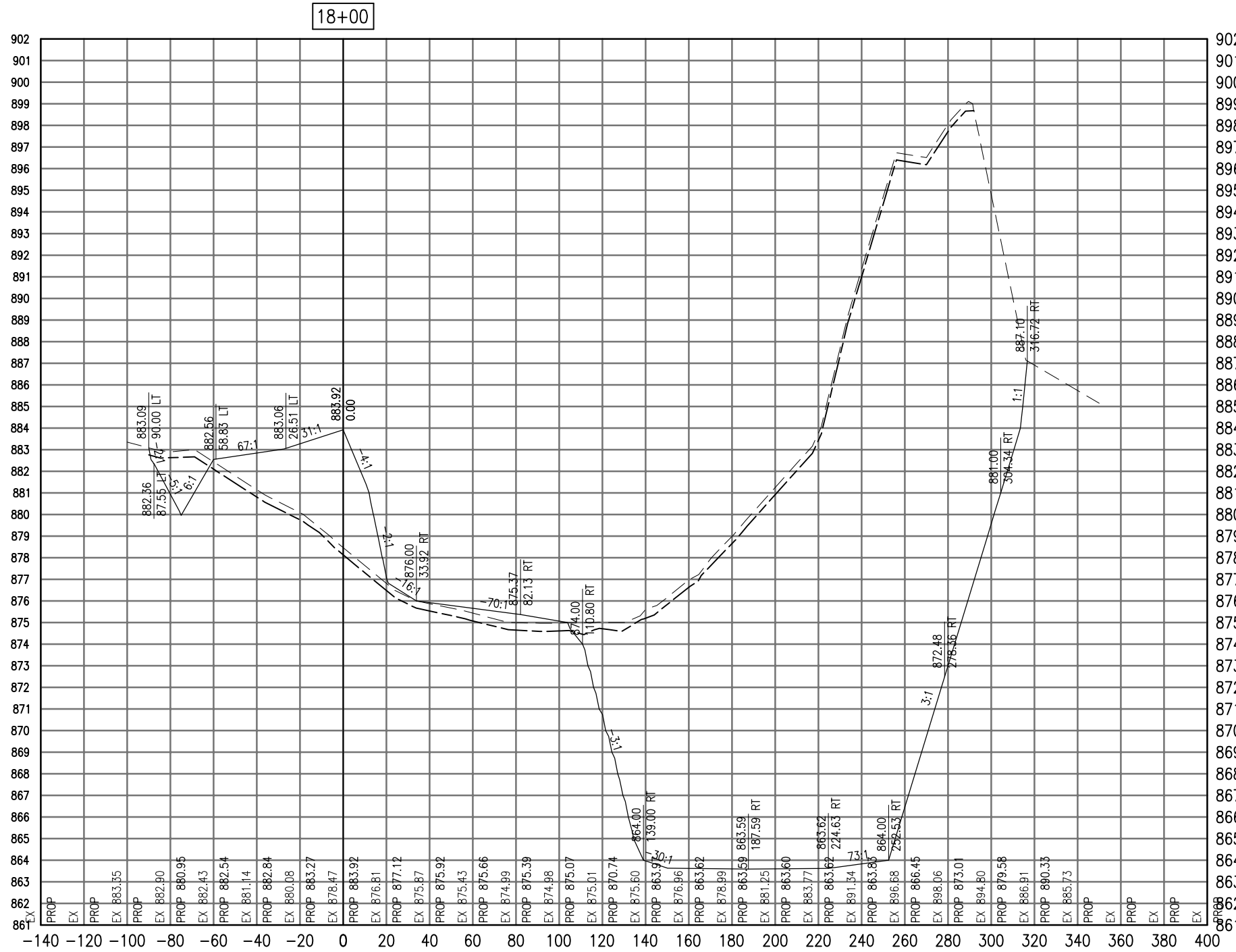


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IDA No. 3CK-3877 AIP No. 3-17-012-B12

SEE LEGEND, PAGE 17



18+00

Total Volume at Station 18+00.00	
Cut Area	3676.99
Fill Area	263.54
Cut Vol	3275.04
Fill Vol	214.07
Cum Cut Vol	4847.77
Cum Fill Vol	306.13
Net Vol	4541.64

Material(s) at Station 18+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	128.43	116.03	172.61

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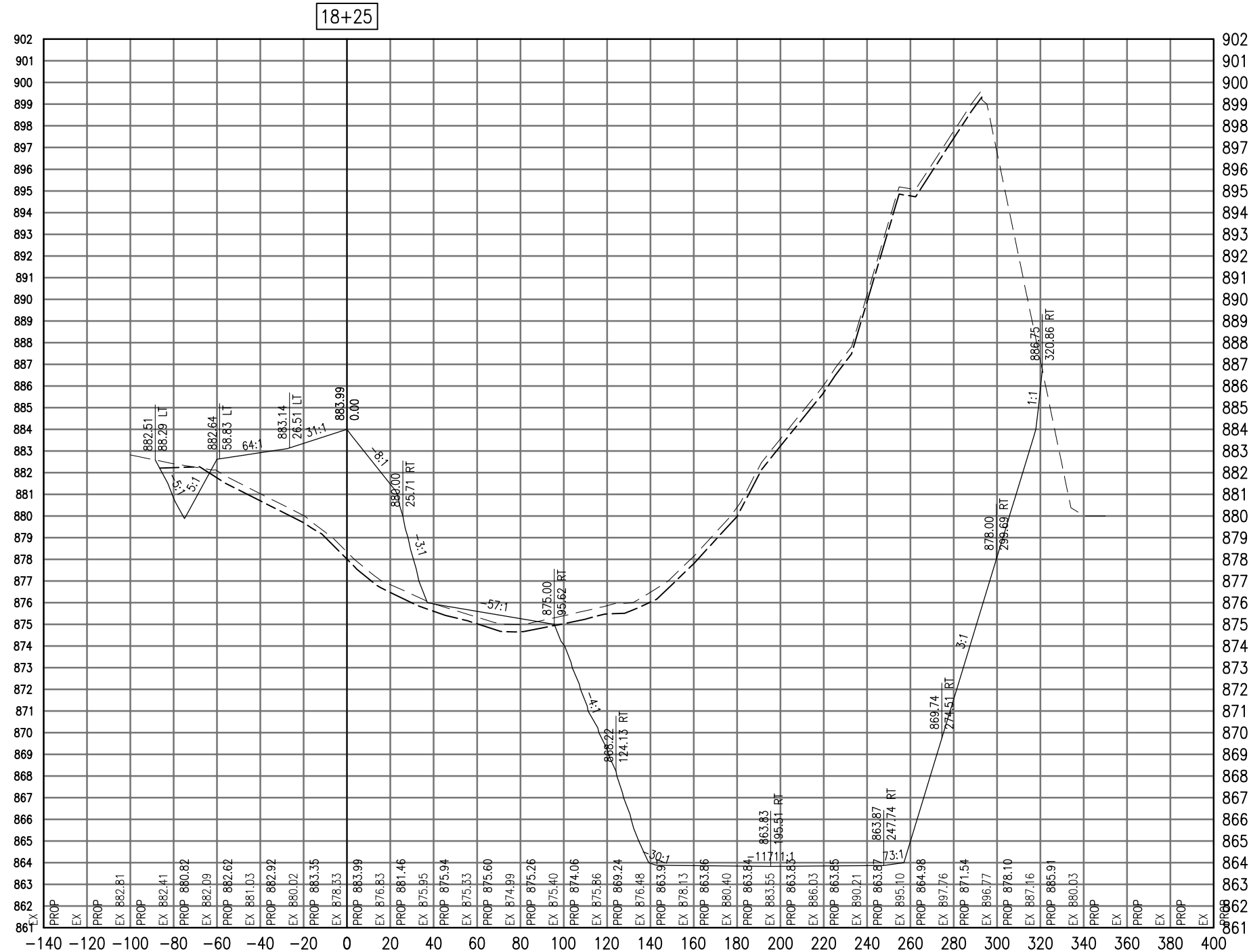


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Total Volume at Station 18+25.00	
Cut Area	3979.35
Fill Area	360.75
Cut Vol	3544.60
Fill Vol	289.02
Cum Cut Vol	8392.37
Cum Fill Vol	595.16
Net Vol	7797.22

Material(s) at Station 18+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	126.83	118.18	290.79

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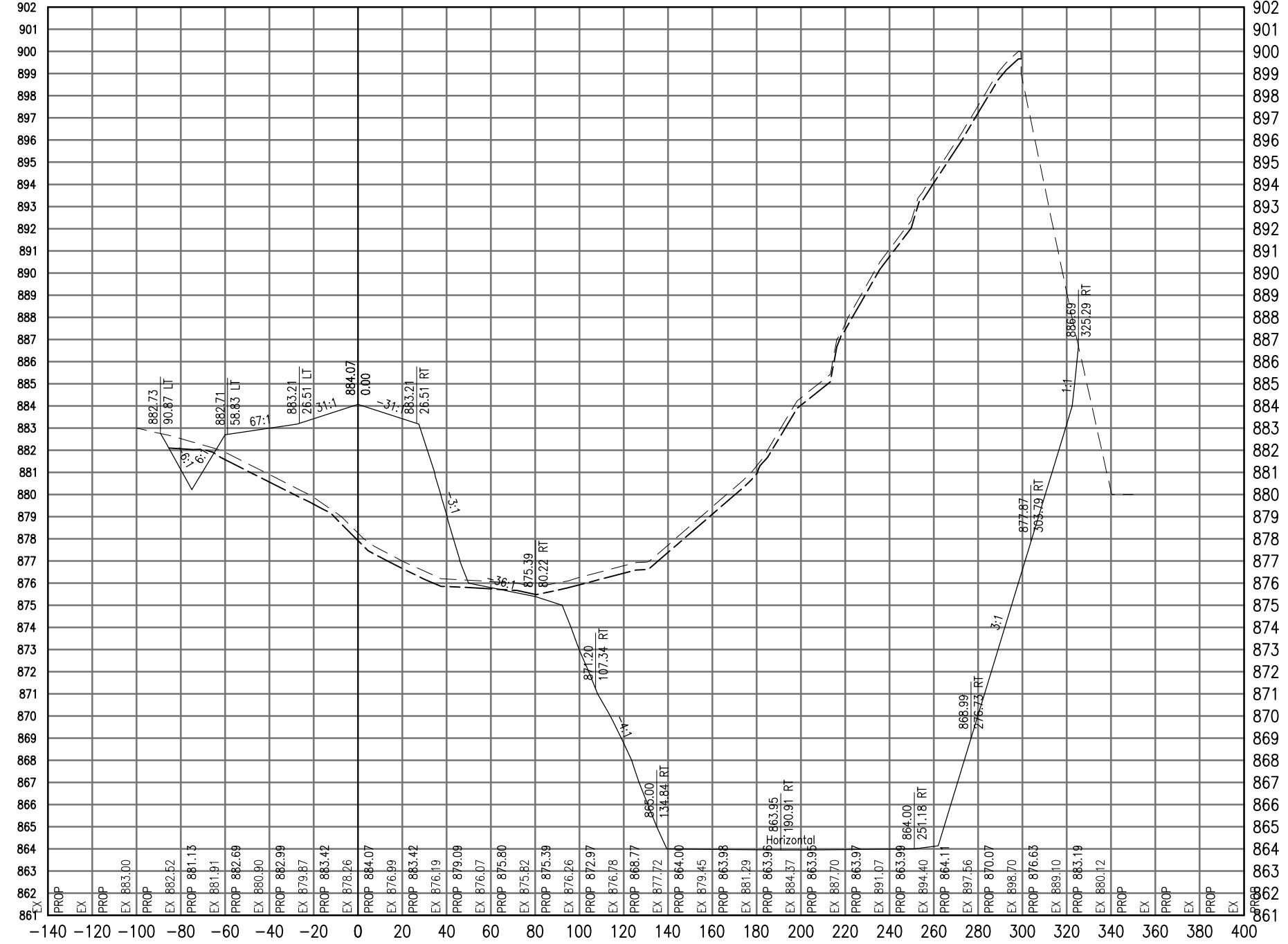
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SEE LEGEND, PAGE 17

18+50



Cut Area	4299.16
Fill Area	462.28
Cut Vol	3832.64
Fill Vol	381.04
Cum Cut Vol	12225.02
Cum Fill Vol	976.19
Net Vol	11248.83

Material Name	Area	Volume	Cumulative Volume
Cut	129.73	118.78	409.57

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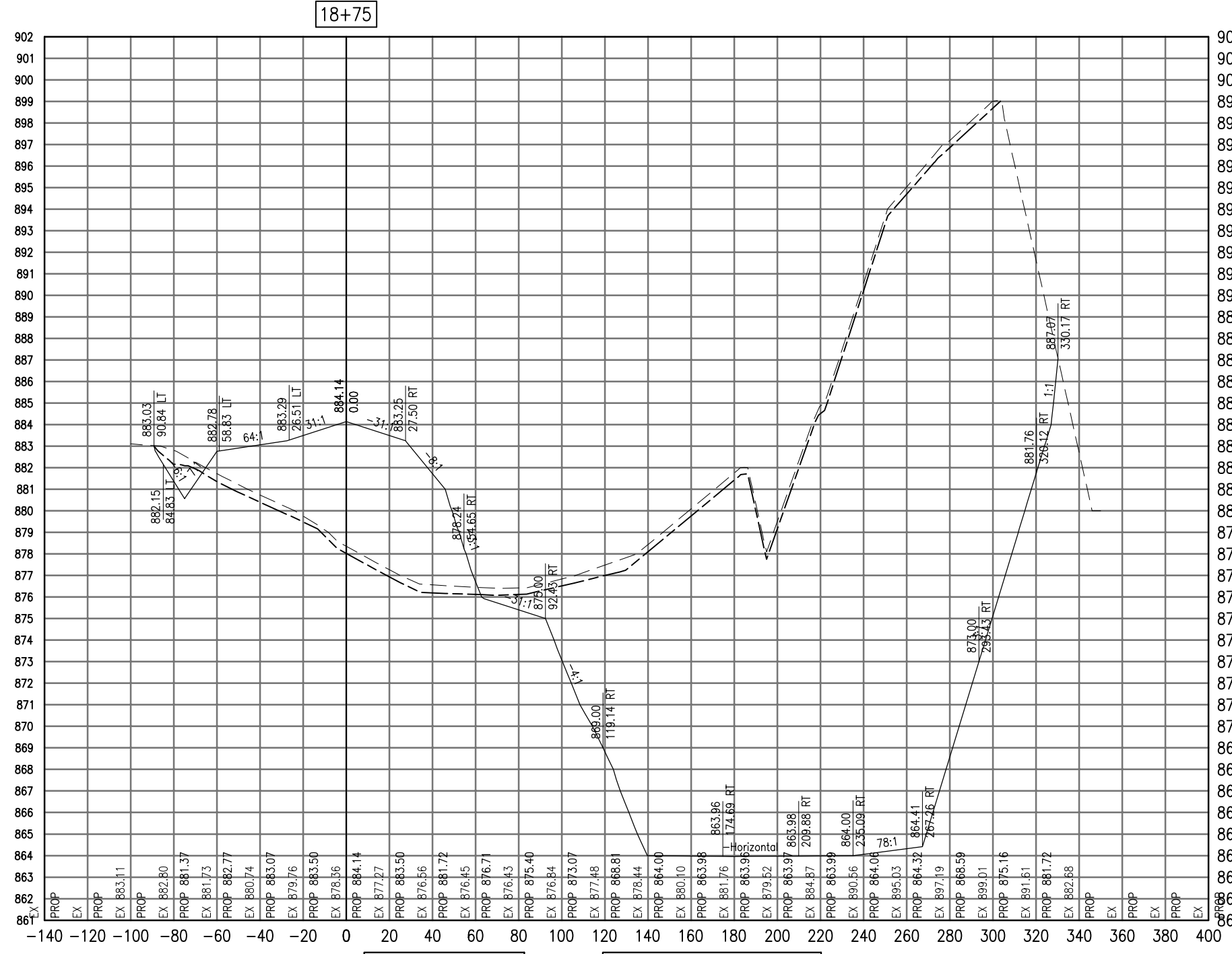


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18+75

Total Volume at Station 18+75.00	
Cut Area	4364.23
Fill Area	527.56
Cut Vol	4010.83
Fill Vol	458.26
Cum Cut Vol	16235.85
Cum Fill Vol	1434.45
Net Vol	14801.40

Material(s) at Station 18+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	134.85	122.49	532.05

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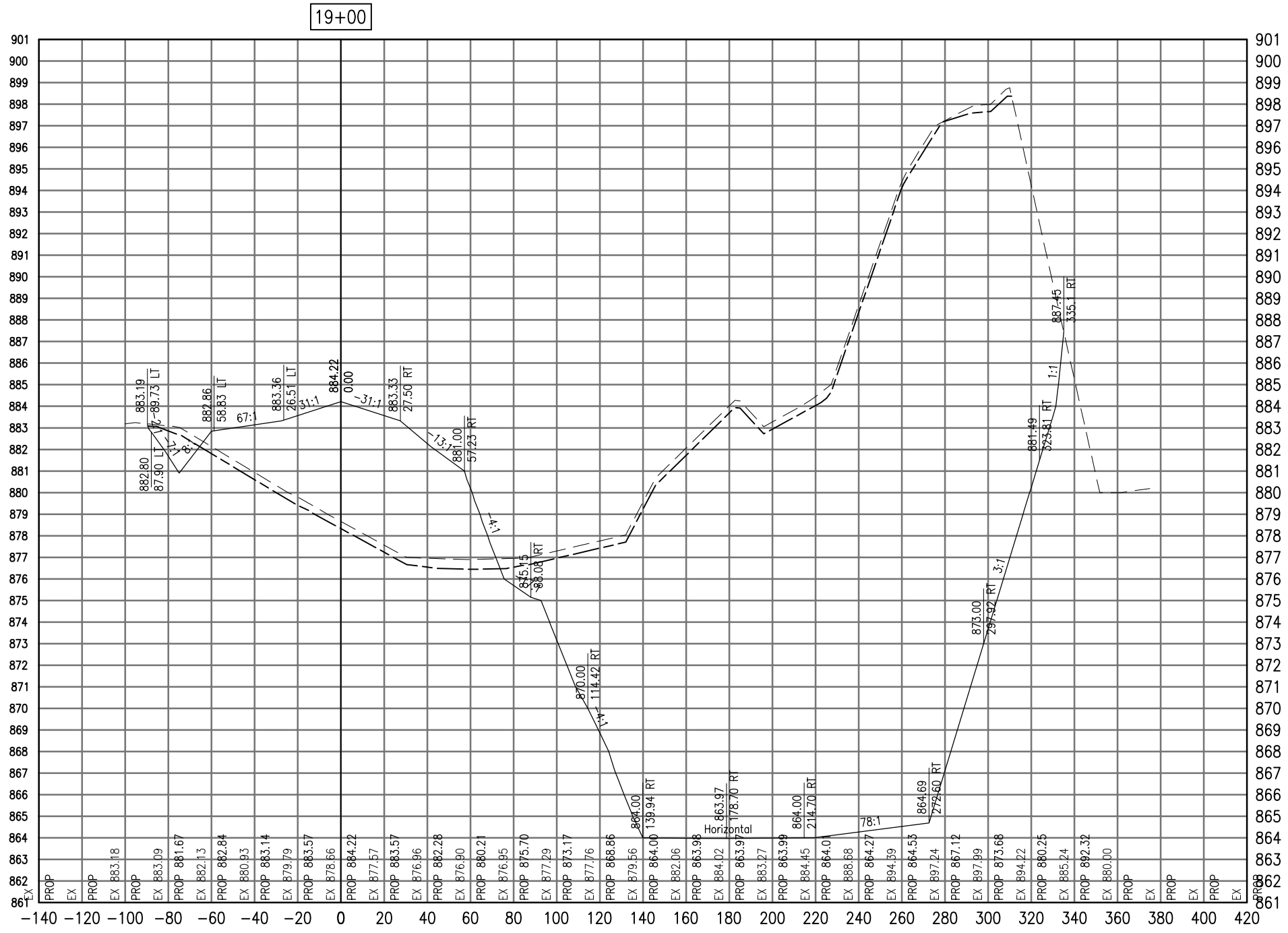


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19+00

Total Volume at Station 19+00.00	
Cut Area	4637.36
Fill Area	559.71
Cut Vol	4167.40
Fill Vol	503.37
Cum Cut Vol	20403.25
Cum Fill Vol	1937.82
Net Vol	18465.44

Material(s) at Station 19+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	134.63	124.77	656.82

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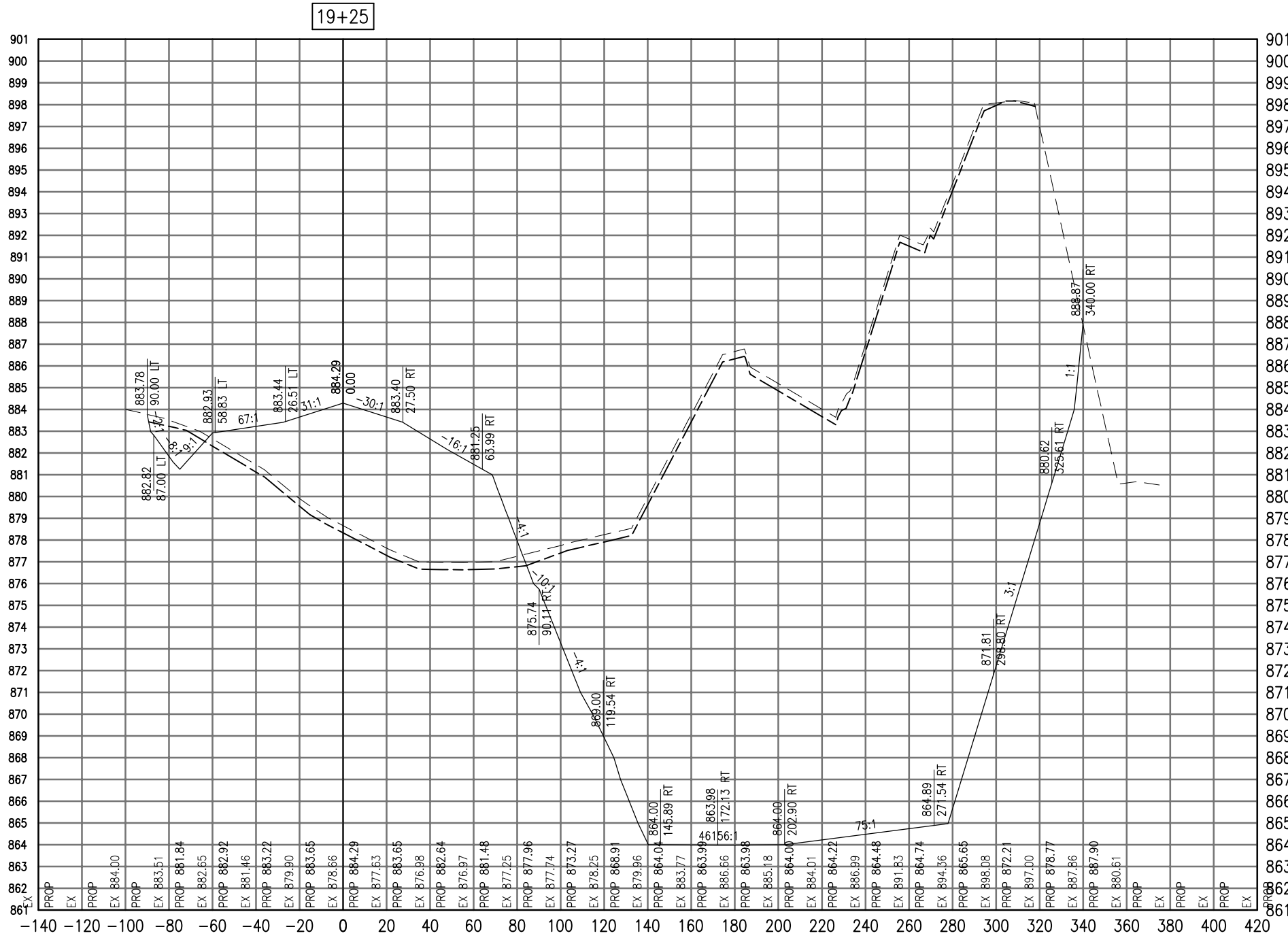


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19+25

Total Volume at Station 19+25.00	
Cut Area	4773.53
Fill Area	598.31
Cut Vol	4356.89
Fill Vol	536.12
Cum Cut Vol	24760.15
Cum Fill Vol	2473.94
Net Vol	22286.21

Material(s) at Station 19+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	133.24	124.02	780.84

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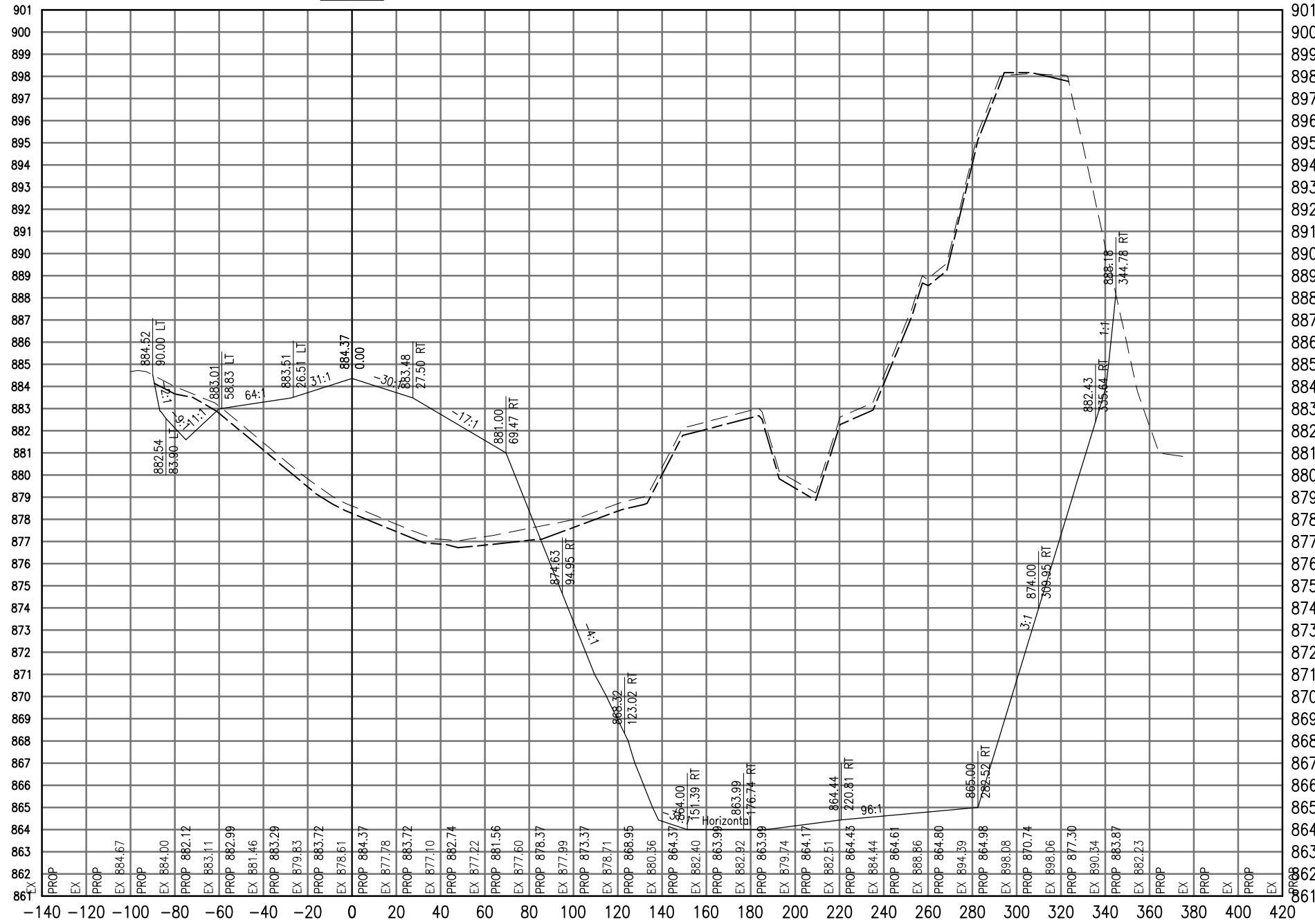
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19+50



Total Volume at Station 19+50.00	
Cut Area	4577.05
Fill Area	594.05
Cut Vol	4328.97
Fill Vol	552.02
Cum Cut Vol	29089.12
Cum Fill Vol	3025.95
Net Vol	26063.17

Material(s) at Station 19+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	133.09	123.30	904.15

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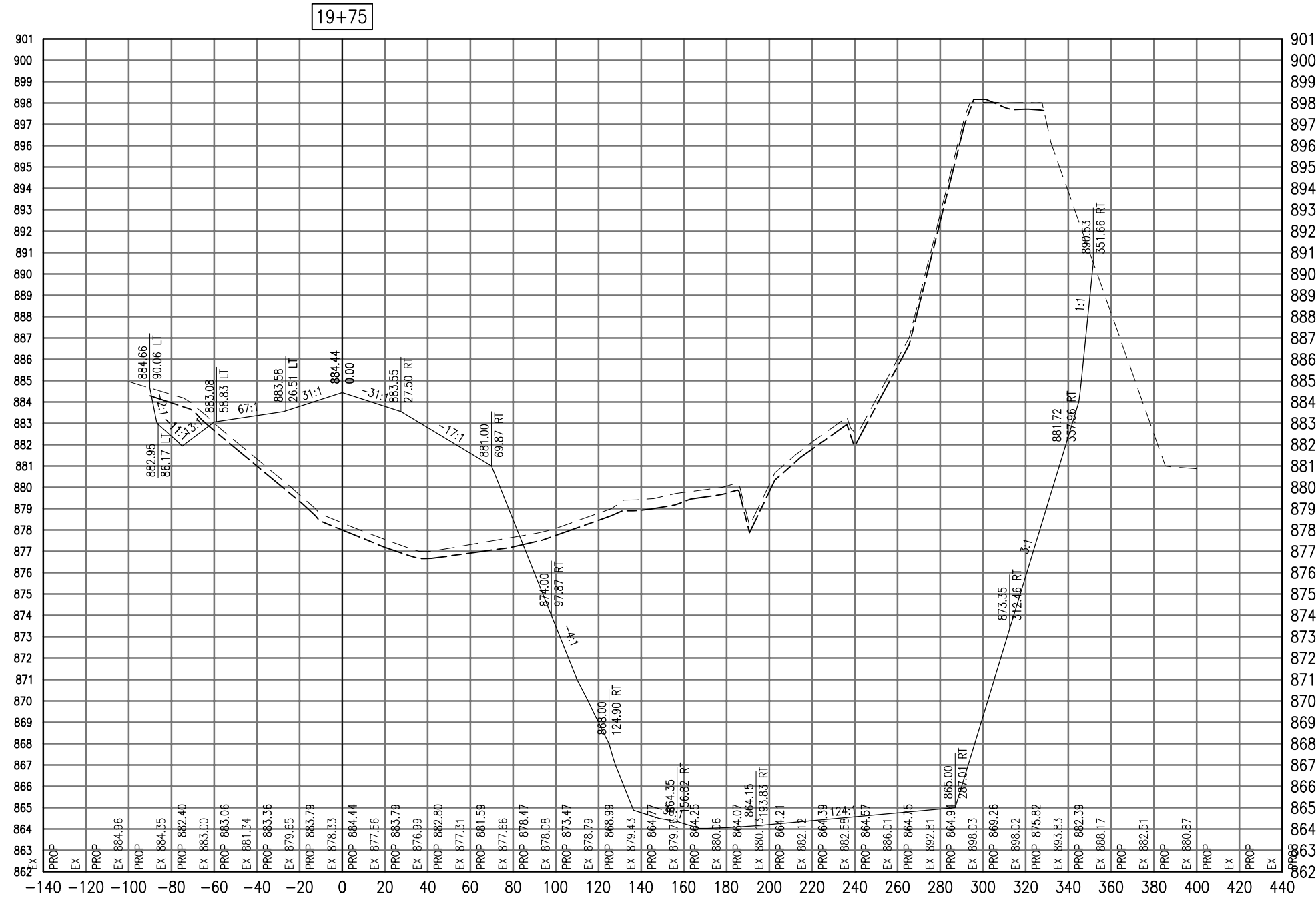
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IDA No. 3CK-3877 AIP No. 3-17-012-B12



SEE LEGEND, PAGE 17



19+75

Cut Area	4516.49
Fill Area	603.68
Cut Vol	4209.97
Fill Vol	554.50
Cum Cut Vol	33299.09
Cum Fill Vol	3580.46
Net Vol	29718.64

Material Name	Area	Volume	Cumulative Volume
Cut	145.33	128.90	1033.04

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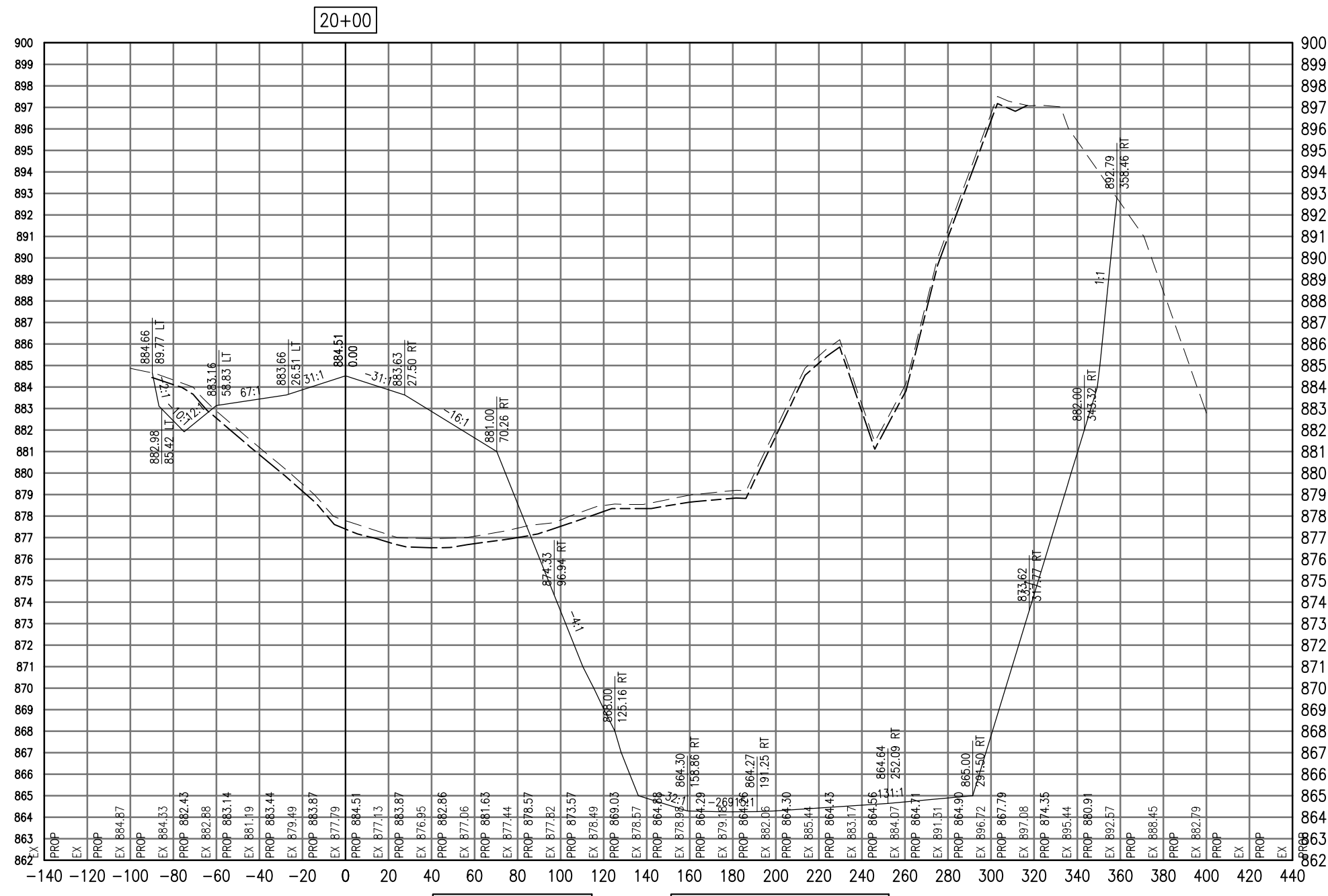


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 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

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20+00

Cut Area	4613.21
Fill Area	642.50
Cut Vol	4226.71
Fill Vol	576.93
Cum Cut Vol	37525.80
Cum Fill Vol	4157.39
Net Vol	33368.42

Material Name	Area	Volume	Cumulative Volume
Cut	135.84	130.17	1163.21

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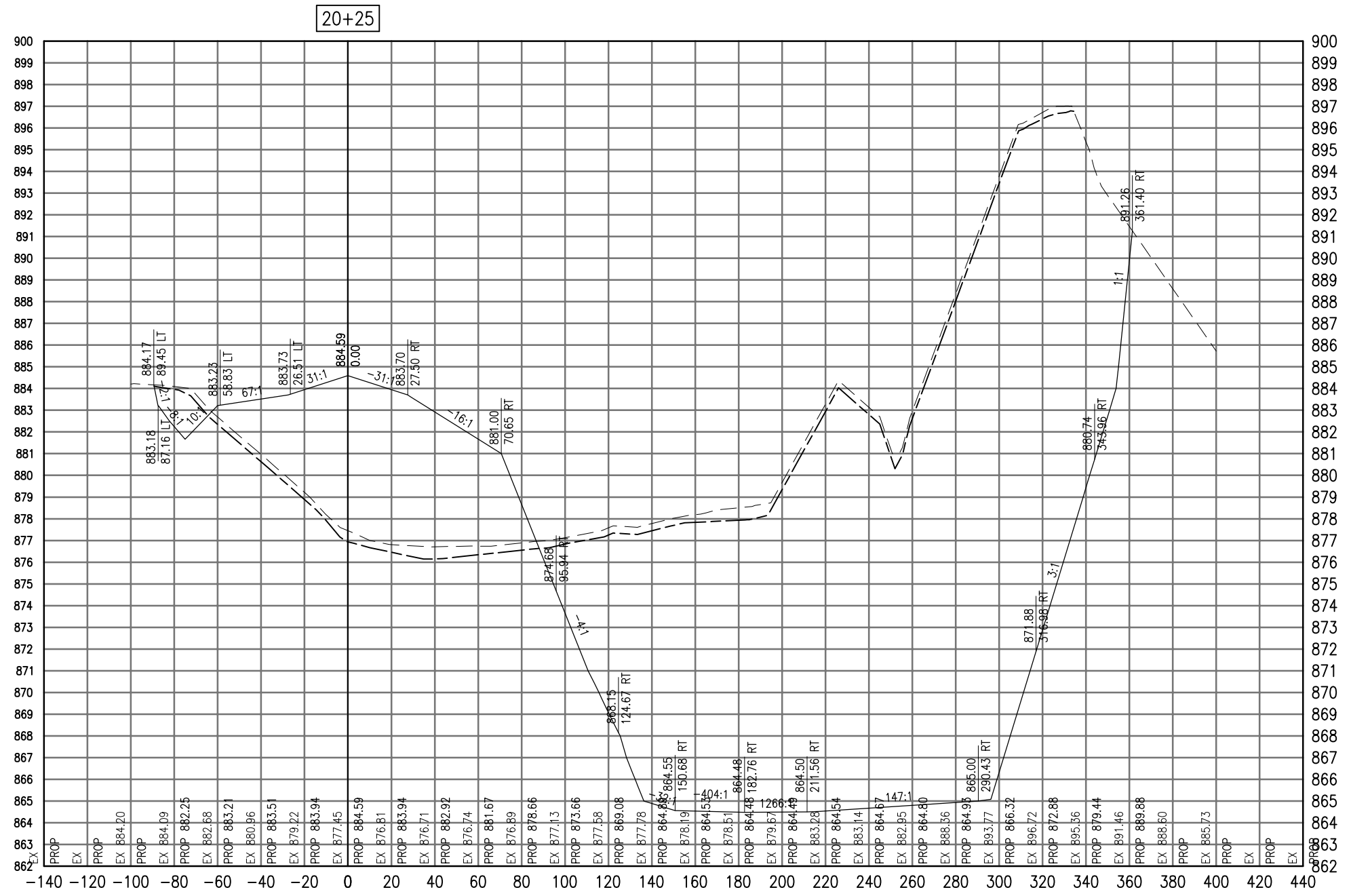


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SEE LEGEND, PAGE 17



20+25

Total Volume at Station 20+25.00	
Cut Area	4364.15
Fill Area	701.73
Cut Vol	4156.18
Fill Vol	622.33
Cum Cut Vol	41681.99
Cum Fill Vol	4779.72
Net Vol	36902.27

Material(s) at Station 20+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	150.96	132.78	1295.99

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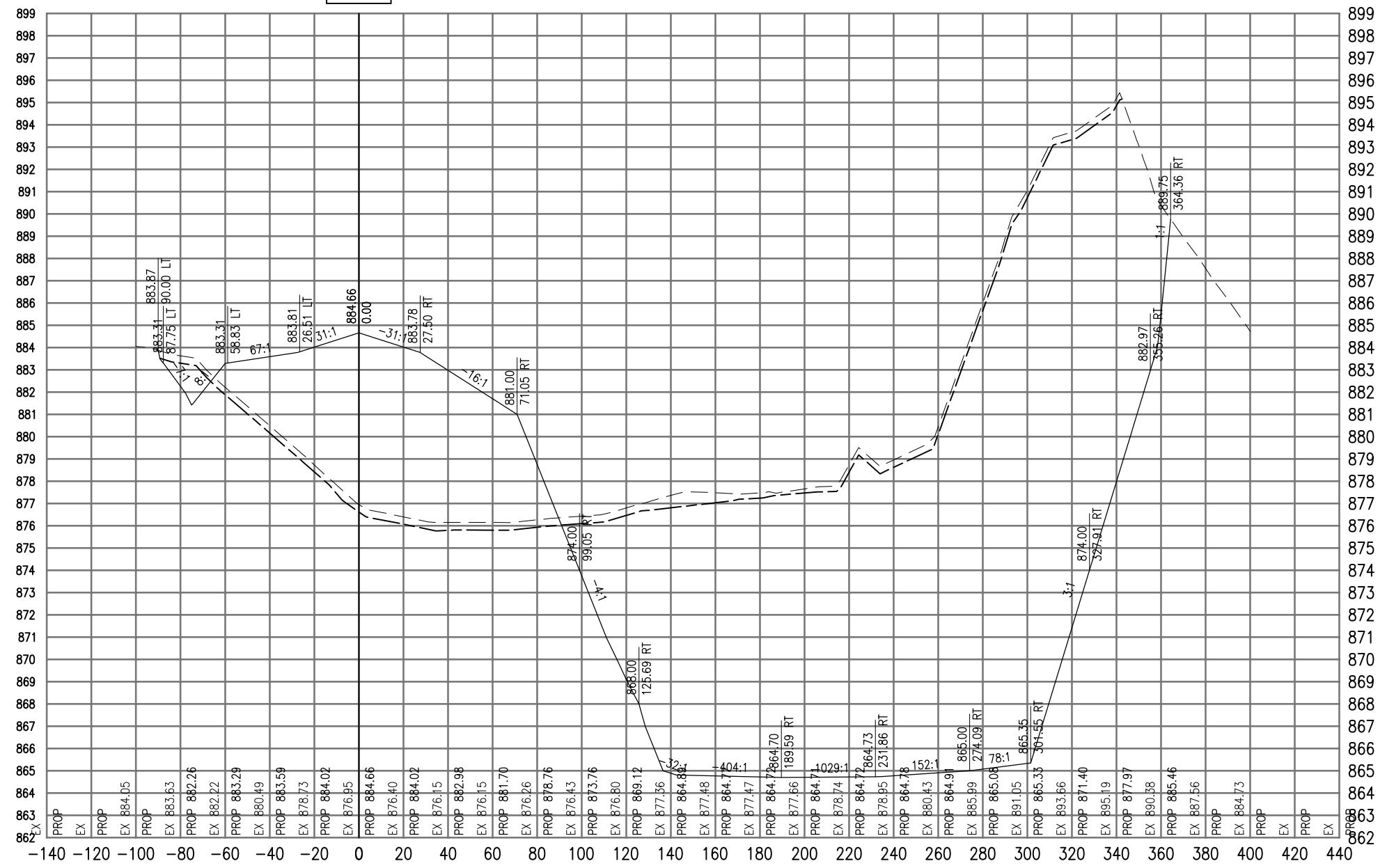
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20+50



Total Volume at Station 20+50.00	
Cut Area	3924.72
Fill Area	795.39
Cut Vol	1817.00
Fill Vol	368.23
Cum Cut Vol	1817.00
Cum Fill Vol	368.23
Net Vol	1448.77

Material(s) at Station 20+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	146.13	67.65	67.65

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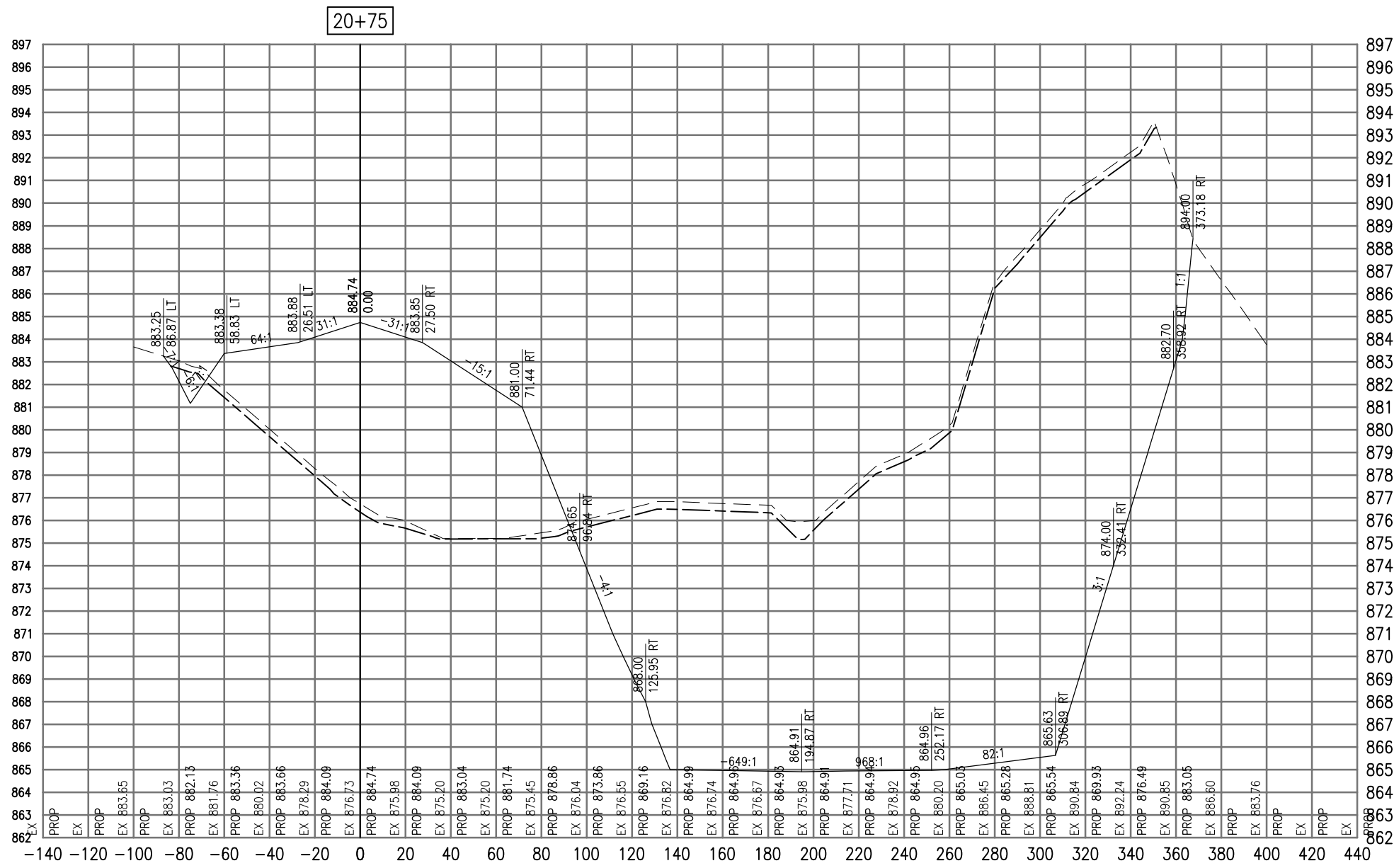


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Cut Area	3736.14
Fill Area	909.01
Cut Vol	3546.70
Fill Vol	789.07
Cum Cut Vol	5363.70
Cum Fill Vol	1157.30
Net Vol	4206.39

Material Name	Area	Volume	Cumulative Volume
Cut	137.33	131.23	198.88

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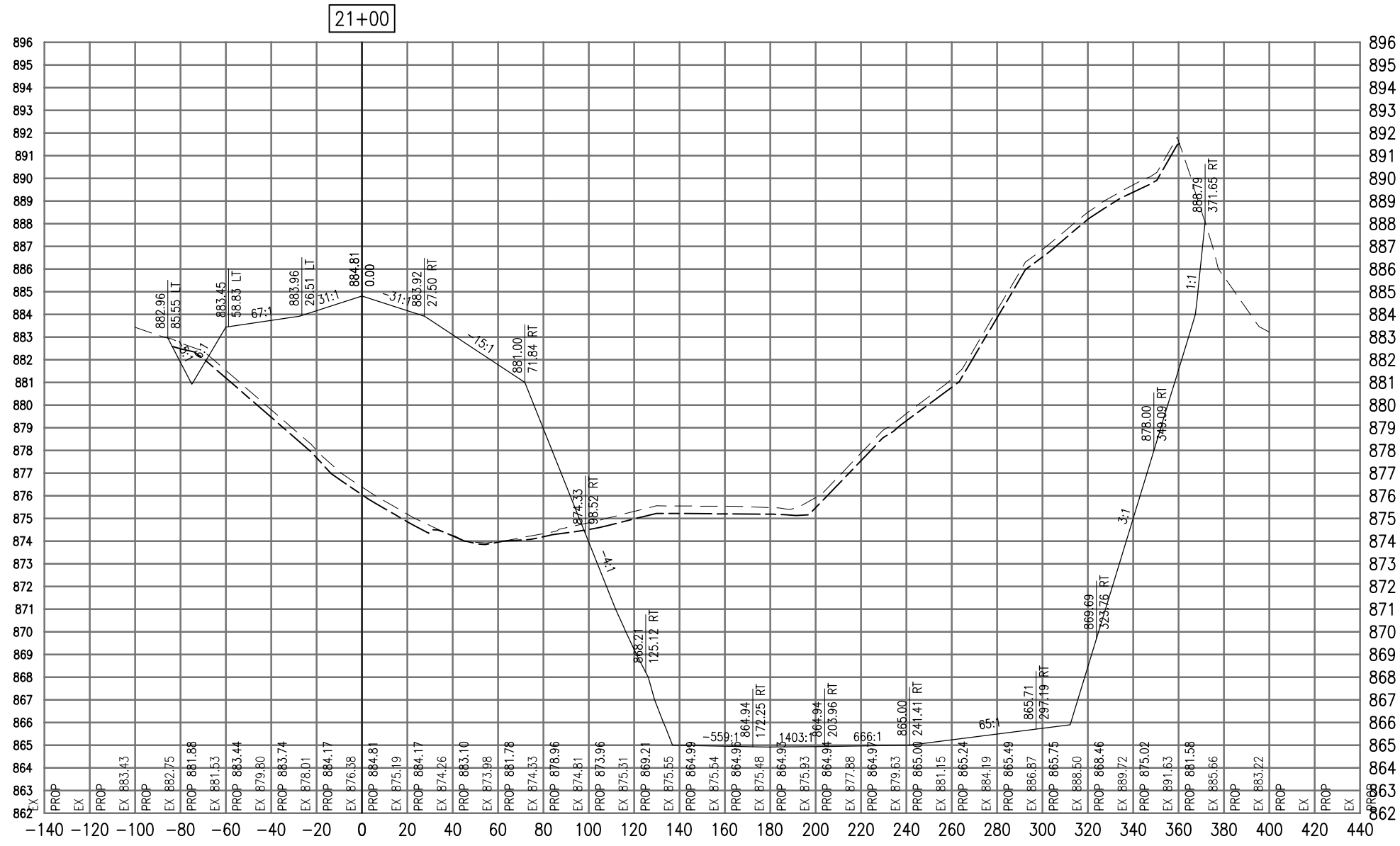


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Total Volume at Station 21+00.00	
Cut Area	3549.06
Fill Area	1033.90
Cut Vol	3372.78
Fill Vol	899.49
Cum Cut Vol	8736.48
Cum Fill Vol	2056.80
Net Vol	6679.68

Material(s) at Station 21+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	133.20	125.24	324.12

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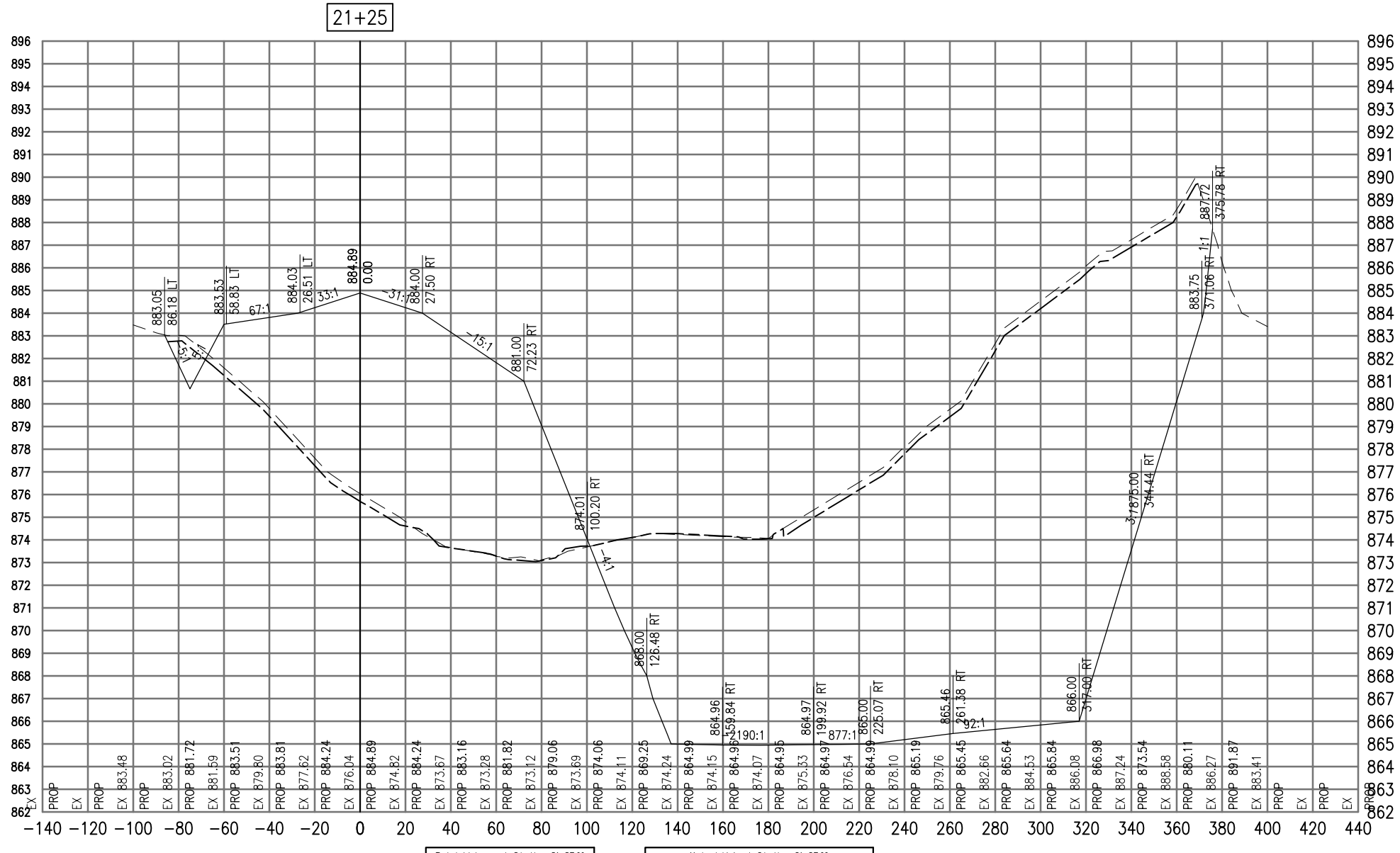


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21+25

Total Volume at Station 21+25.00	
Cut Area	3214.12
Fill Area	1126.82
Cut Vol	3131.10
Fill Vol	1000.33
Cum Cut Vol	11867.58
Cum Fill Vol	3057.13
Net Vol	8810.45

Material(s) at Station 21+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	100.75	108.31	432.43

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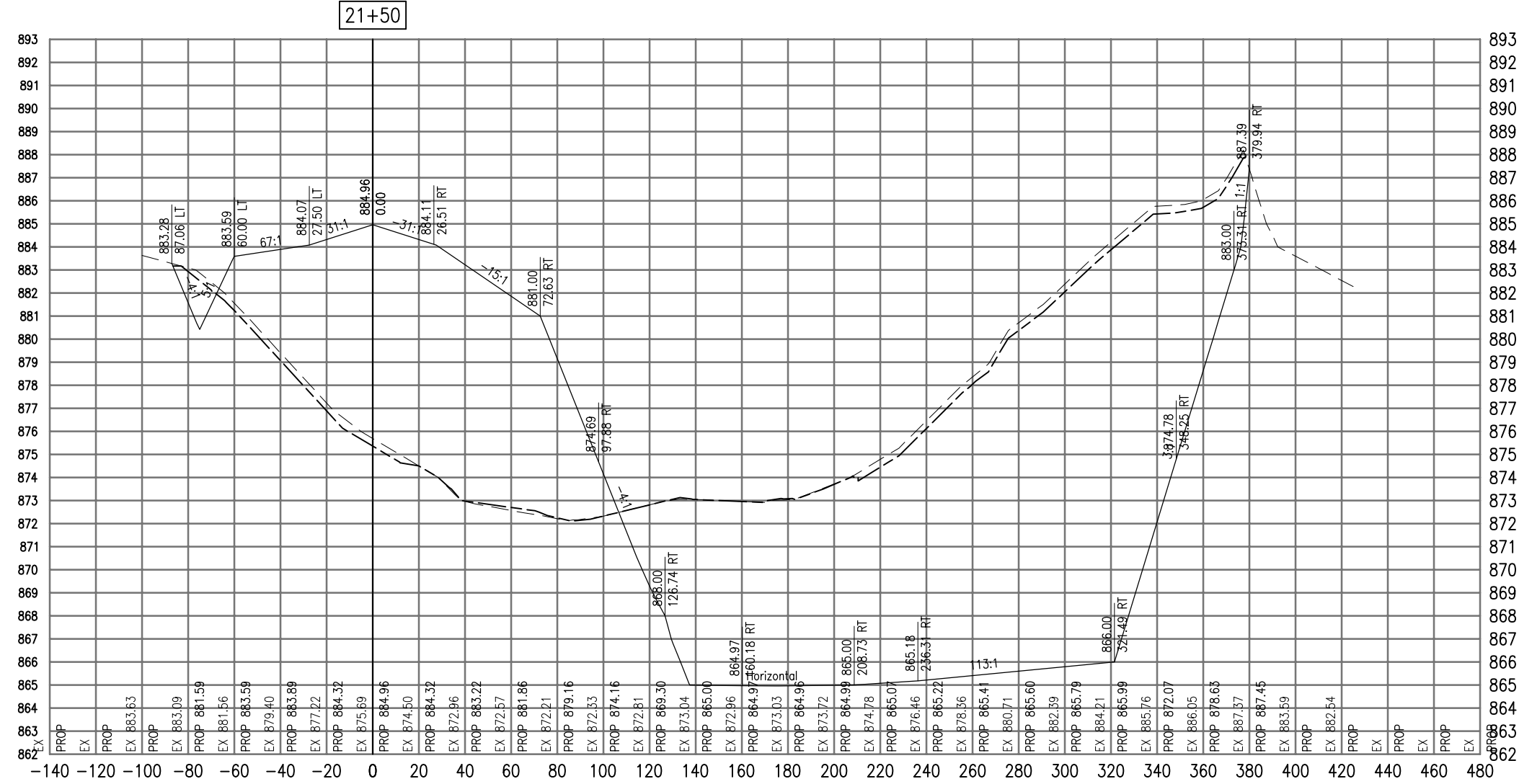


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Cut Area	2869.52
Fill Area	1229.51
Cut Vol	2816.50
Fill Vol	1090.89
Cum Cut Vol	14684.07
Cum Fill Vol	4148.02
Net Vol	10536.05

Material Name	Area	Volume	Cumulative Volume
Cut	90.19	88.40	520.83

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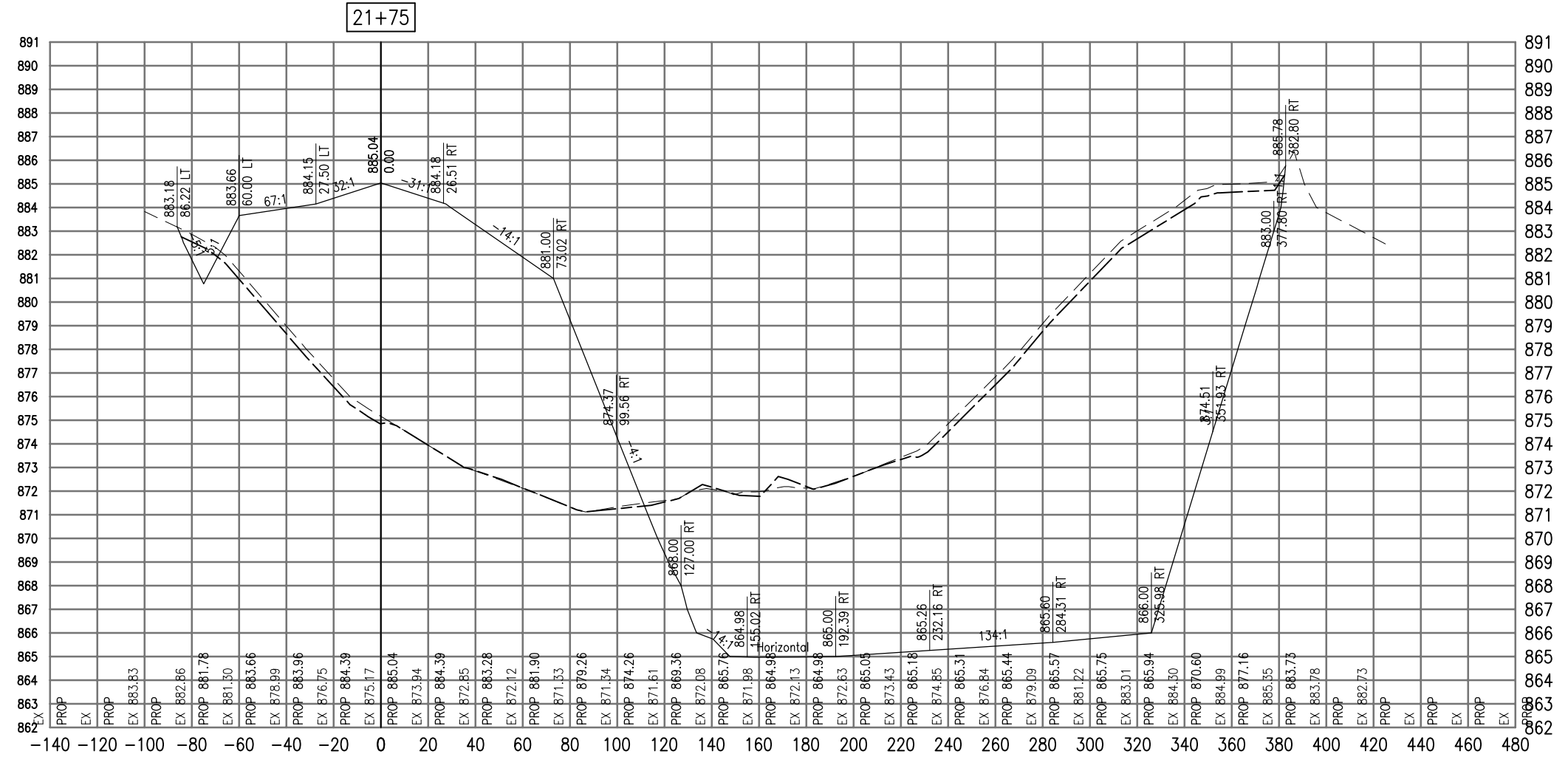
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IDA No. 3CK-3877 AIP No. 3-17-0112-B12



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21+75

Total Volume at Station 21+75.00	
Cut Area	2590.24
Fill Area	1328.15
Cut Vol	2527.66
Fill Vol	1184.10
Cut Cut Vol	17211.74
Cut Fill Vol	5332.12
Net Vol	11879.61

Material(s) at Station 21+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	90.94	83.86	604.69

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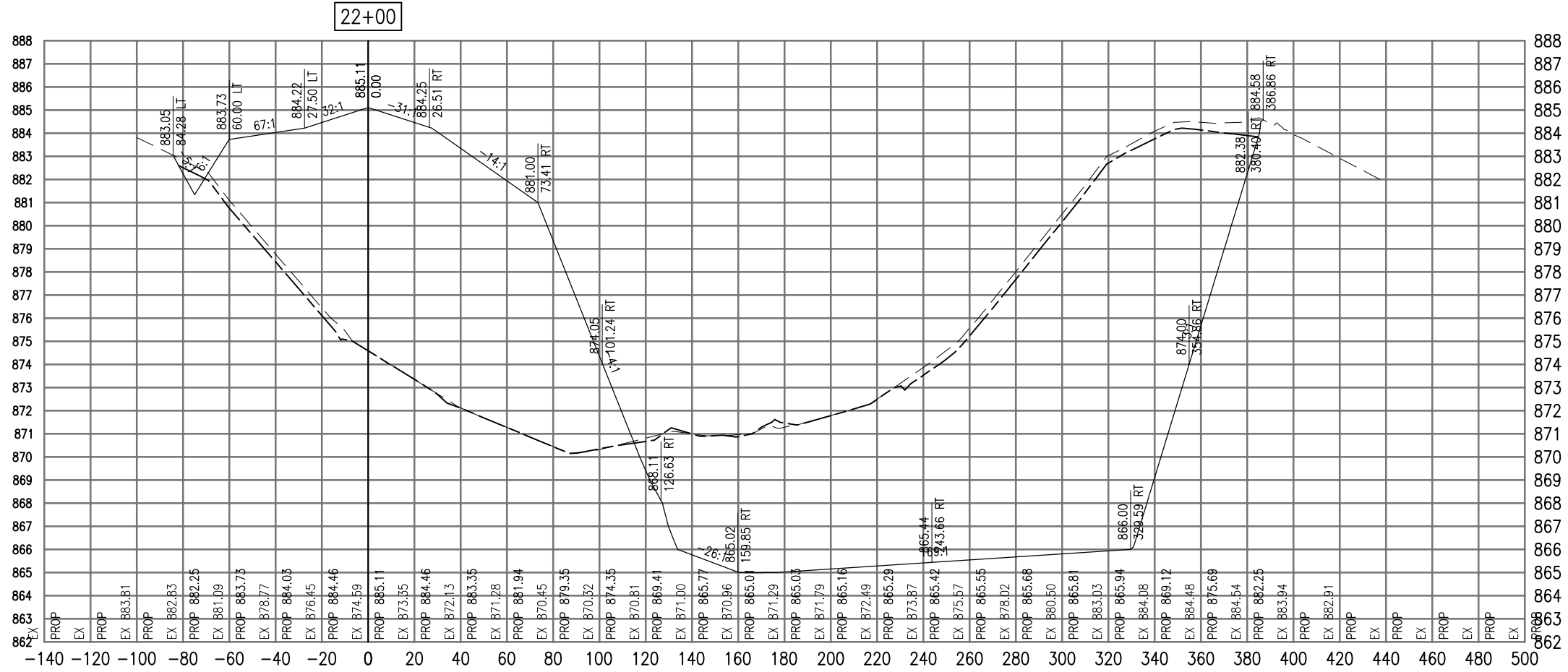


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 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

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Total Volume at Station 22+00.00	
Cut Area	2434.35
Fill Area	1442.55
Cut Vol	2326.20
Fill Vol	1282.73
Cum Cut Vol	19537.94
Cum Fill Vol	6614.85
Net Vol	12923.08

Material(s) at Station 22+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	92.17	84.77	689.46

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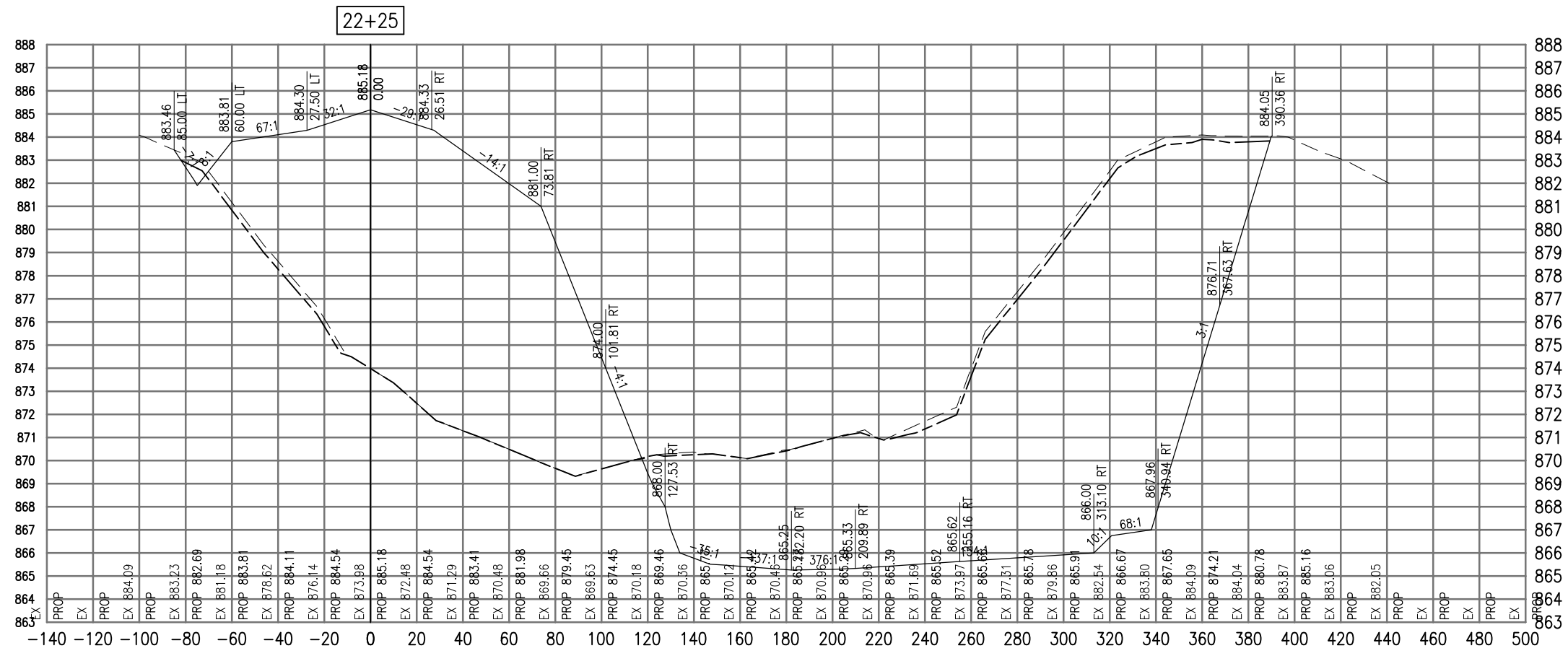


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IDA No. 3CK-3877 AIP No. 3-17-0112-B12

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Cut Area	2235.57
Fill Area	1564.54
Cut Vol	2162.00
Fill Vol	1392.17
Cum Cut Vol	21699.94
Cum Fill Vol	8007.02
Net Vol	13692.91

Material Name	Area	Volume	Cumulative Volume
Cut	81.27	80.29	769.76

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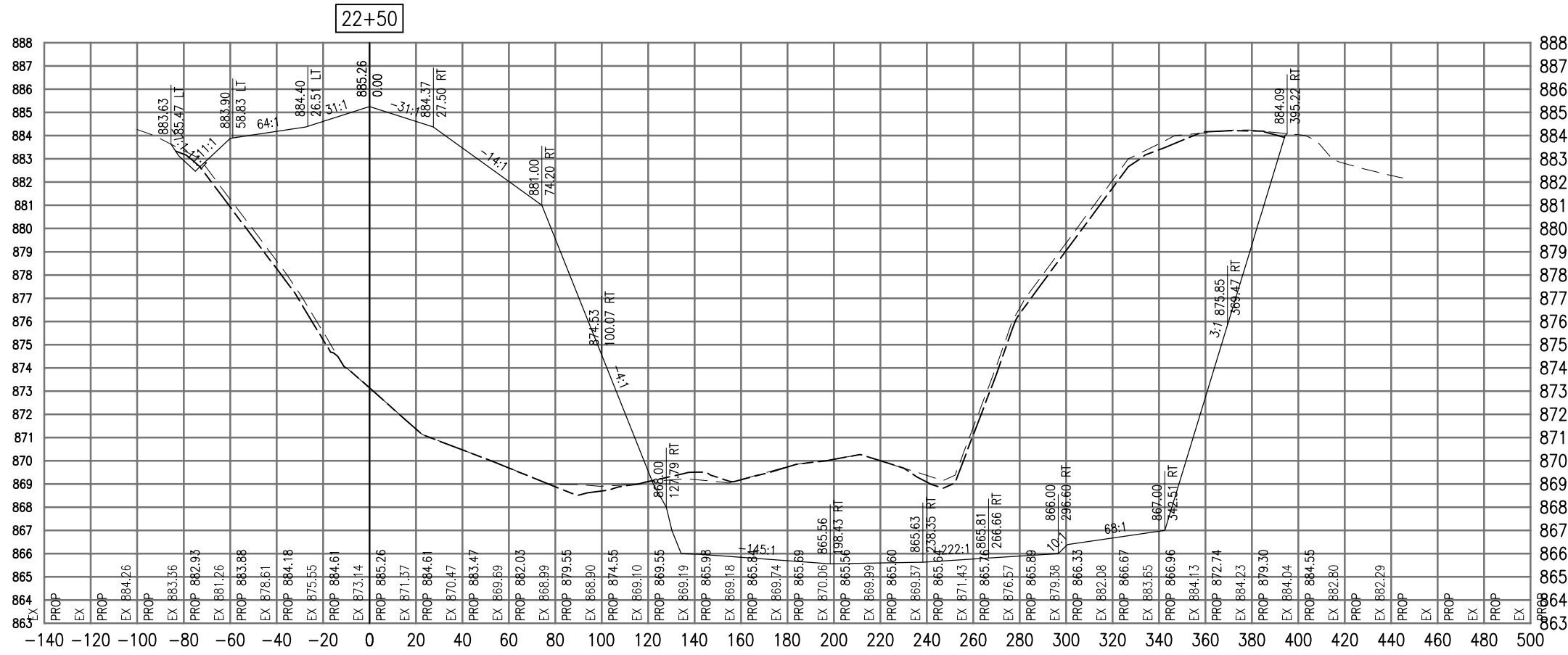


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IDA No. 3CK-3877 AIP No. 3-17-0112-B12

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Total Volume at Station 22+50.00	
Cut Area	2023.18
Fill Area	1697.28
Cut Vol	1971.64
Fill Vol	1510.10
Cum Cut Vol	23671.58
Cum Fill Vol	9517.12
Net Vol	14154.45

Material(s) at Station 22+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	72.12	71.01	840.77

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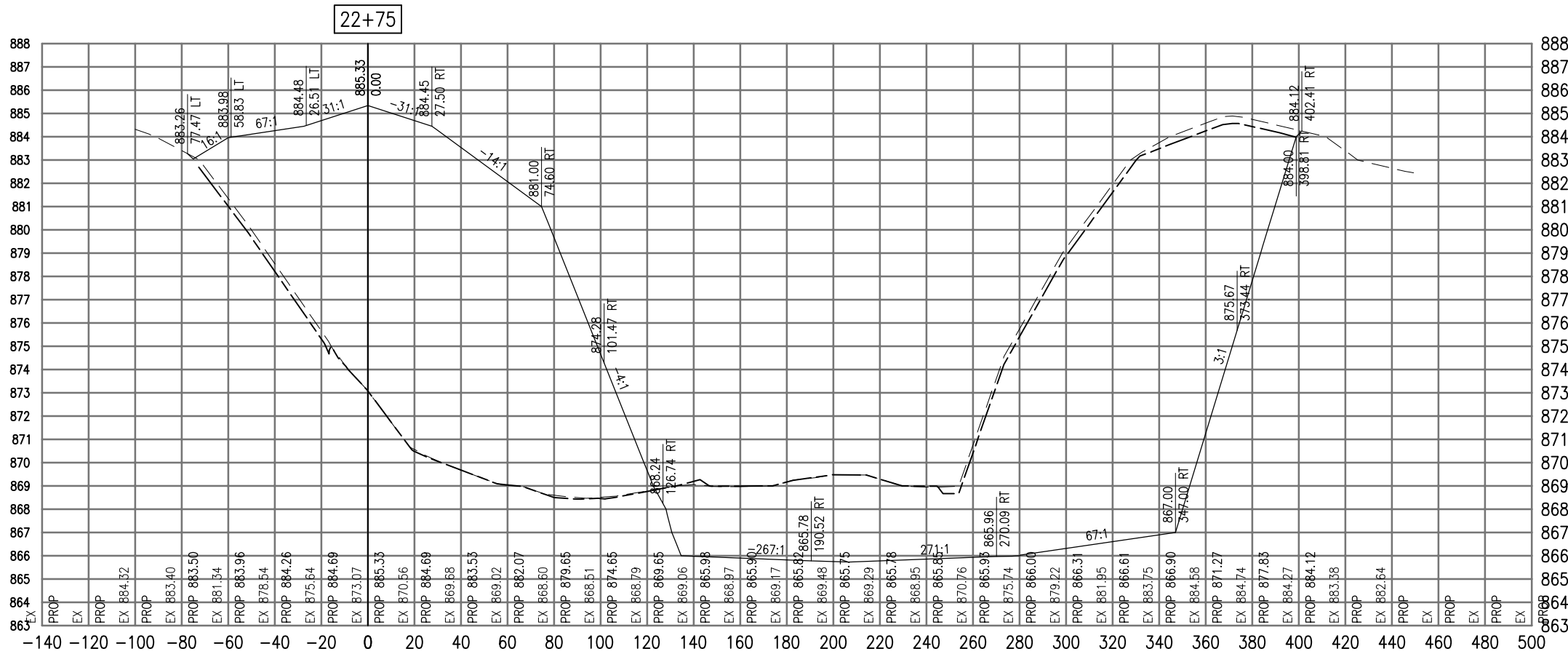


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Total Volume at Station 22+75.00	
Cut Area	2009.17
Fill Area	1780.41
Cut Vol	1866.83
Fill Vol	1610.04
Cum Cut Vol	25338.40
Cum Fill Vol	11127.17
Net Vol	14411.24

Material(s) at Station 22+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	77.68	69.35	910.12

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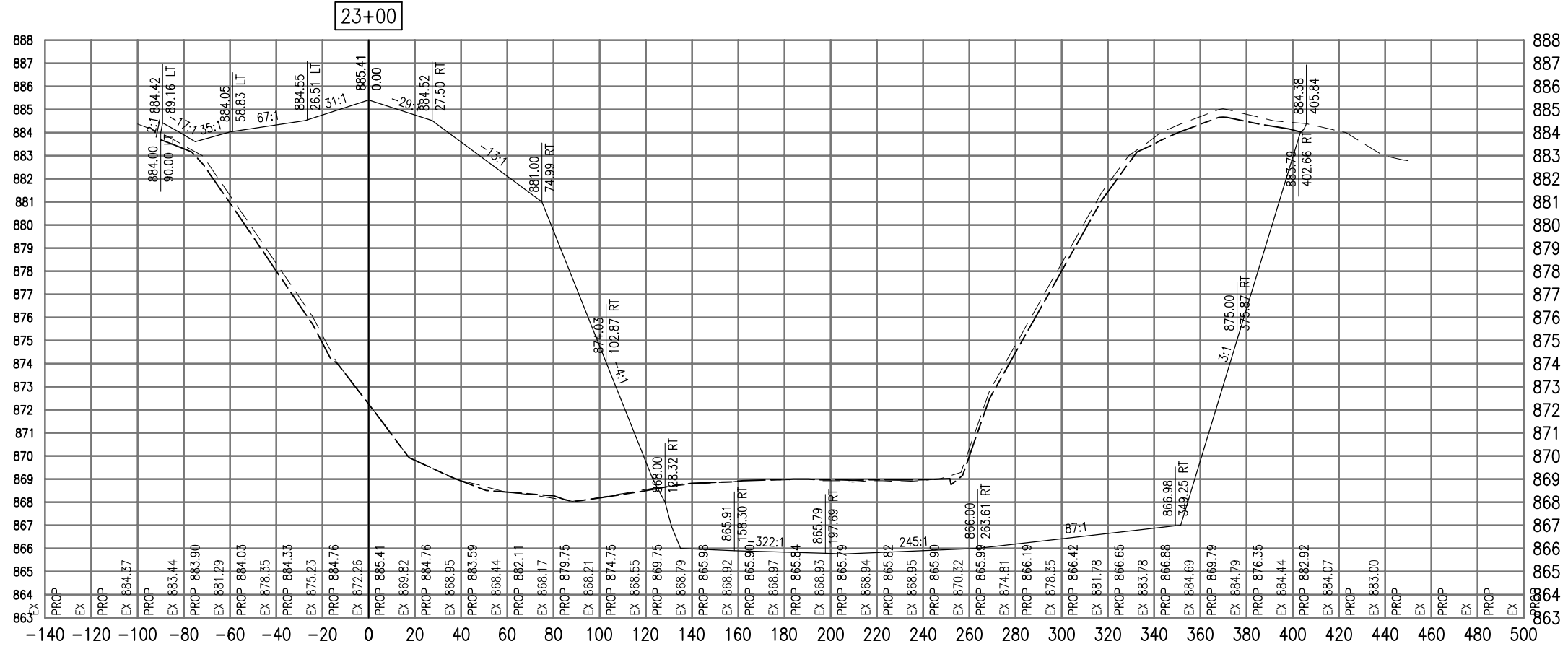
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Total Volume at Station 23+00.00	
Cut Area	2008.16
Fill Area	1891.04
Cut Vol	1859.87
Fill Vol	1699.74
Cum Cut Vol	27398.28
Cum Fill Vol	12826.91
Net Vol	14571.37

Material(s) at Station 23+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	77.19	71.70	981.82

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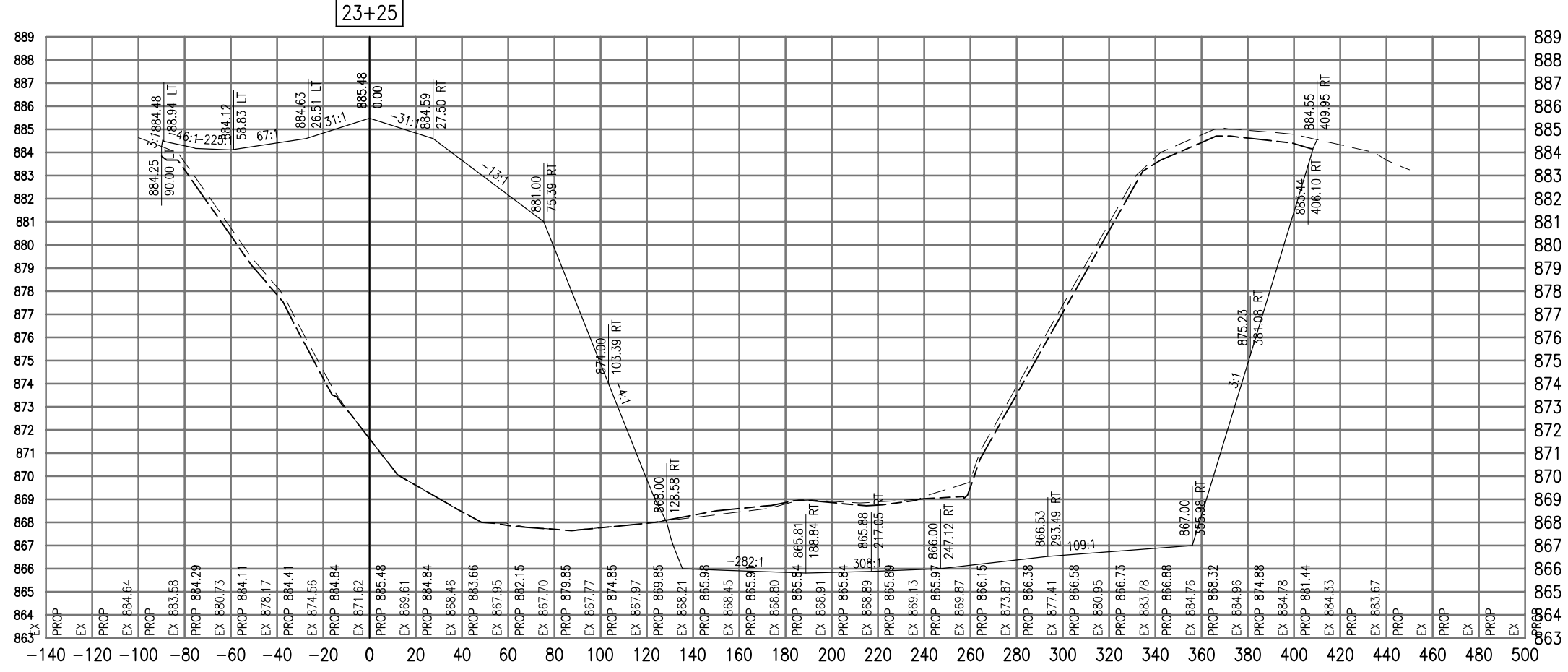
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Total Volume at Station 23+25.00	
Cut Area	1998.45
Fill Area	2012.64
Cut Vol	1854.91
Fill Vol	1807.26
Cum Cut Vol	29253.19
Cum Fill Vol	14634.17
Net Vol	14619.02

Material(s) at Station 23+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	91.37	78.03	1059.85

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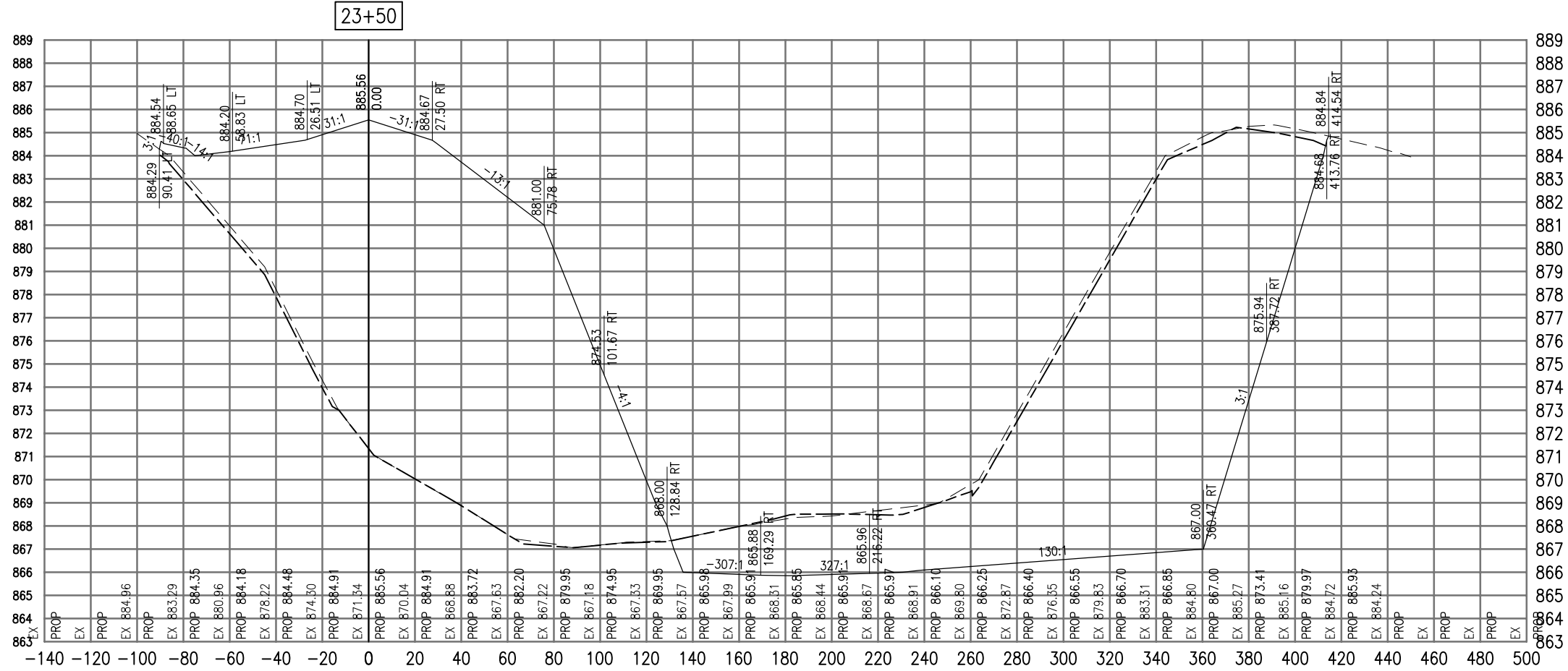
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Total Volume at Station 23+50.00	
Cut Area	1952.94
Fill Area	2053.90
Cut Vol	1829.35
Fill Vol	1882.66
Cum Cut Vol	31082.54
Cum Fill Vol	16516.82
Net Vol	14565.71

Material(s) at Station 23+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	86.91	82.54	1142.39

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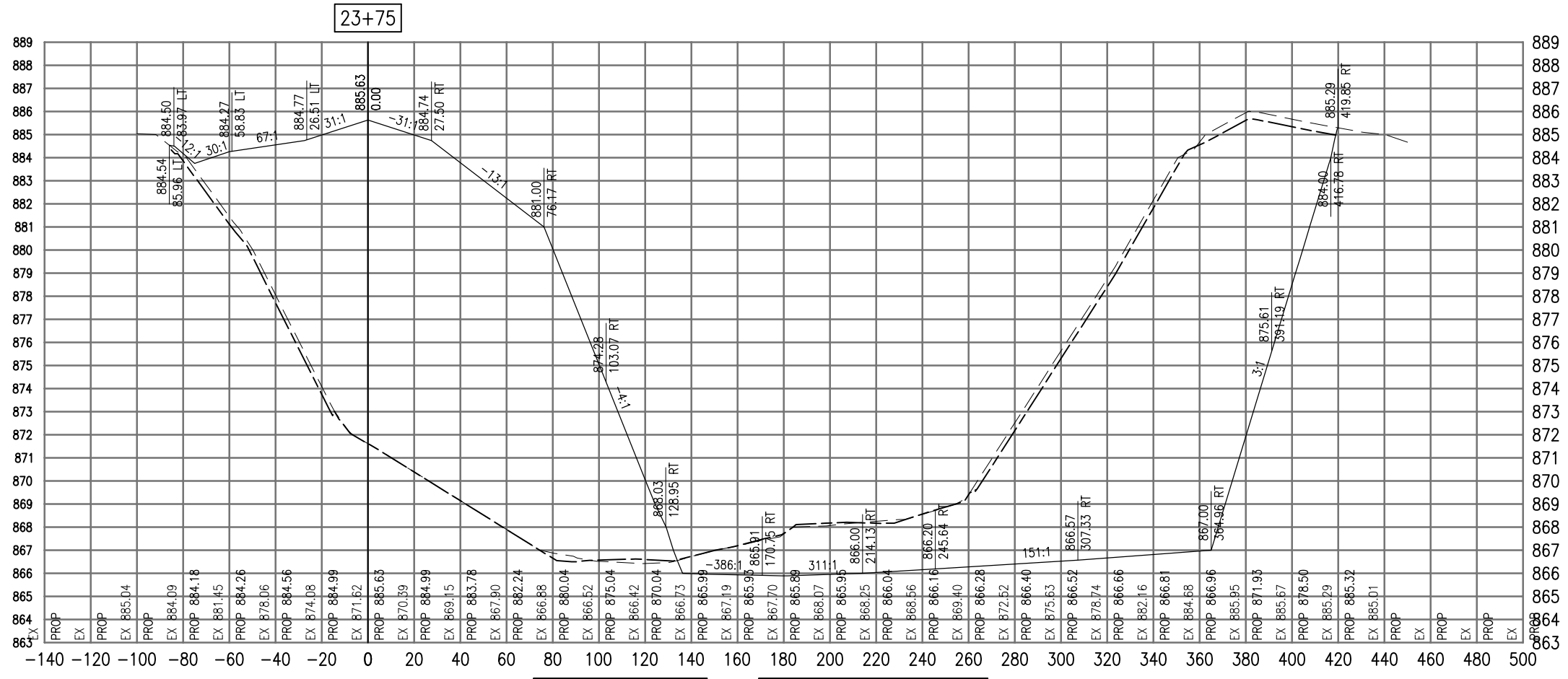
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**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



SEE LEGEND, PAGE 17



23+75

Total Volume at Station 23+75.00	
Cut Area	1919.98
Fill Area	2064.93
Cut Vol	1793.02
Fill Vol	1906.87
Cum Cut Vol	32875.55
Cum Fill Vol	18423.69
Net Vol	14451.86

Material(s) at Station 23+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	81.29	77.87	1220.26

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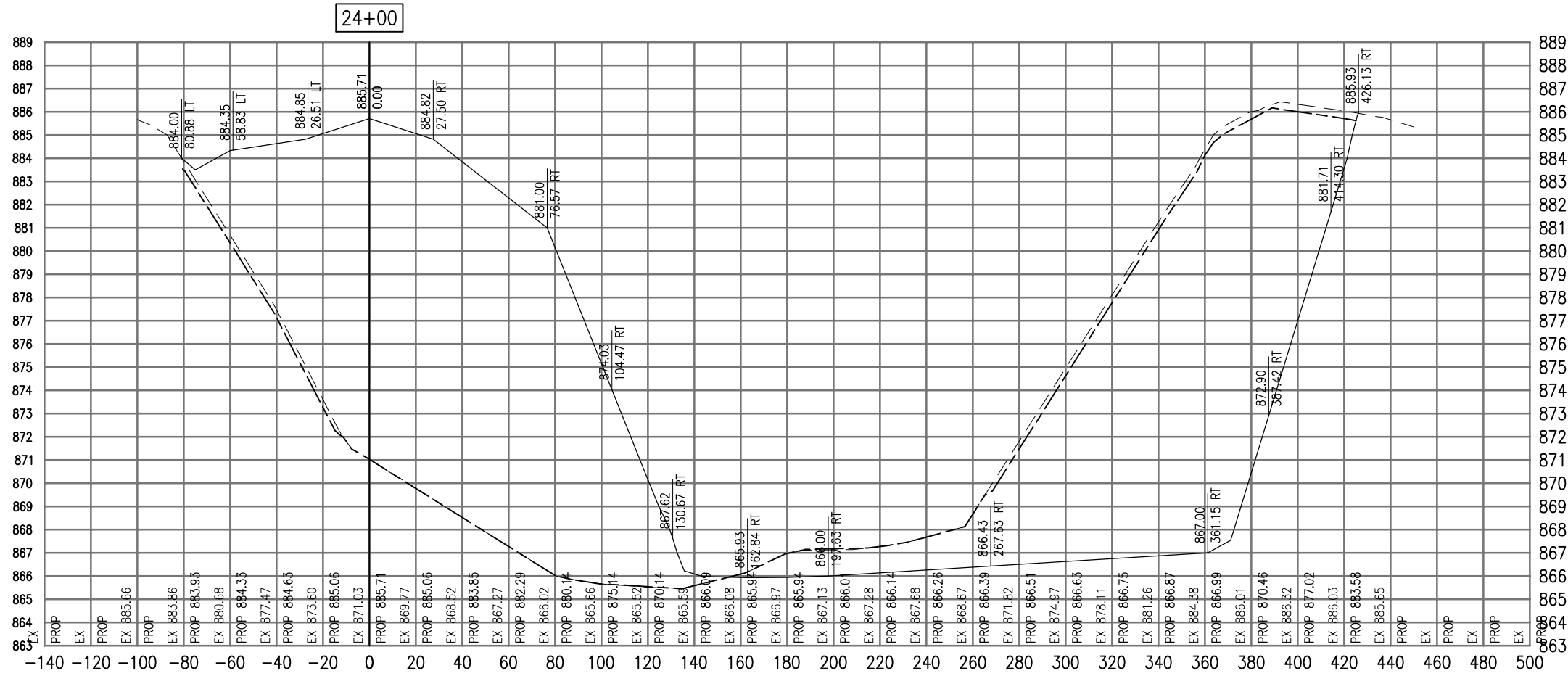


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SEE LEGEND, PAGE 17



Total Volume at Station 24+00.00	
Cut Area	1823.91
Fill Area	2229.70
Cut Vol	1733.28
Fill Vol	1988.26
Cum Cut Vol	34608.83
Cum Fill Vol	20411.95
Net Vol	14196.88

Material(s) at Station 24+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	79.57	74.47	1294.73

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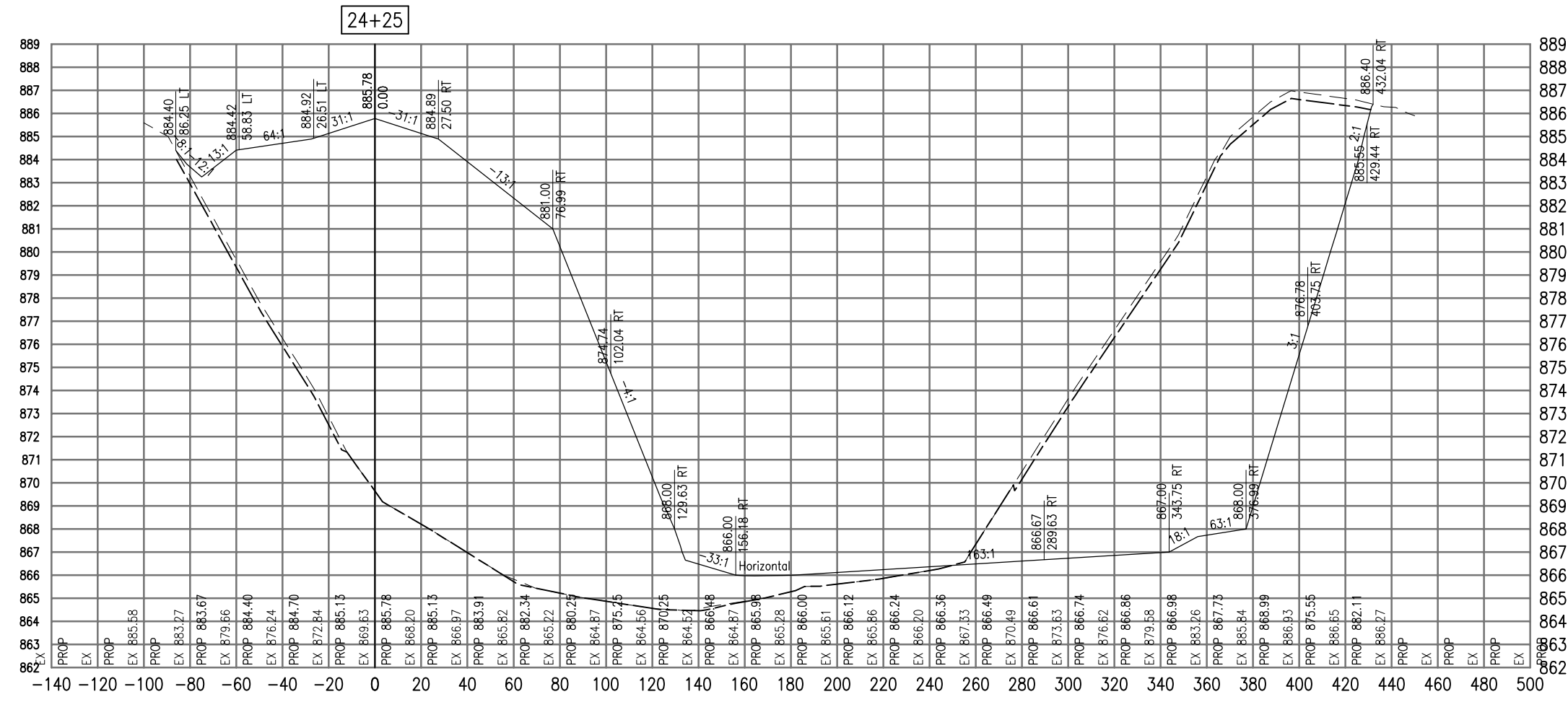


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SEE LEGEND, PAGE 17



Total Volume at Station 24+25.00	
Cut Area	1636.27
Fill Area	2561.59
Cut Vol	1601.93
Fill Vol	2218.19
Cum Cut Vol	36210.76
Cum Fill Vol	22630.14
Net Vol	13580.63

Material(s) at Station 24+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	79.63	73.70	1368.43

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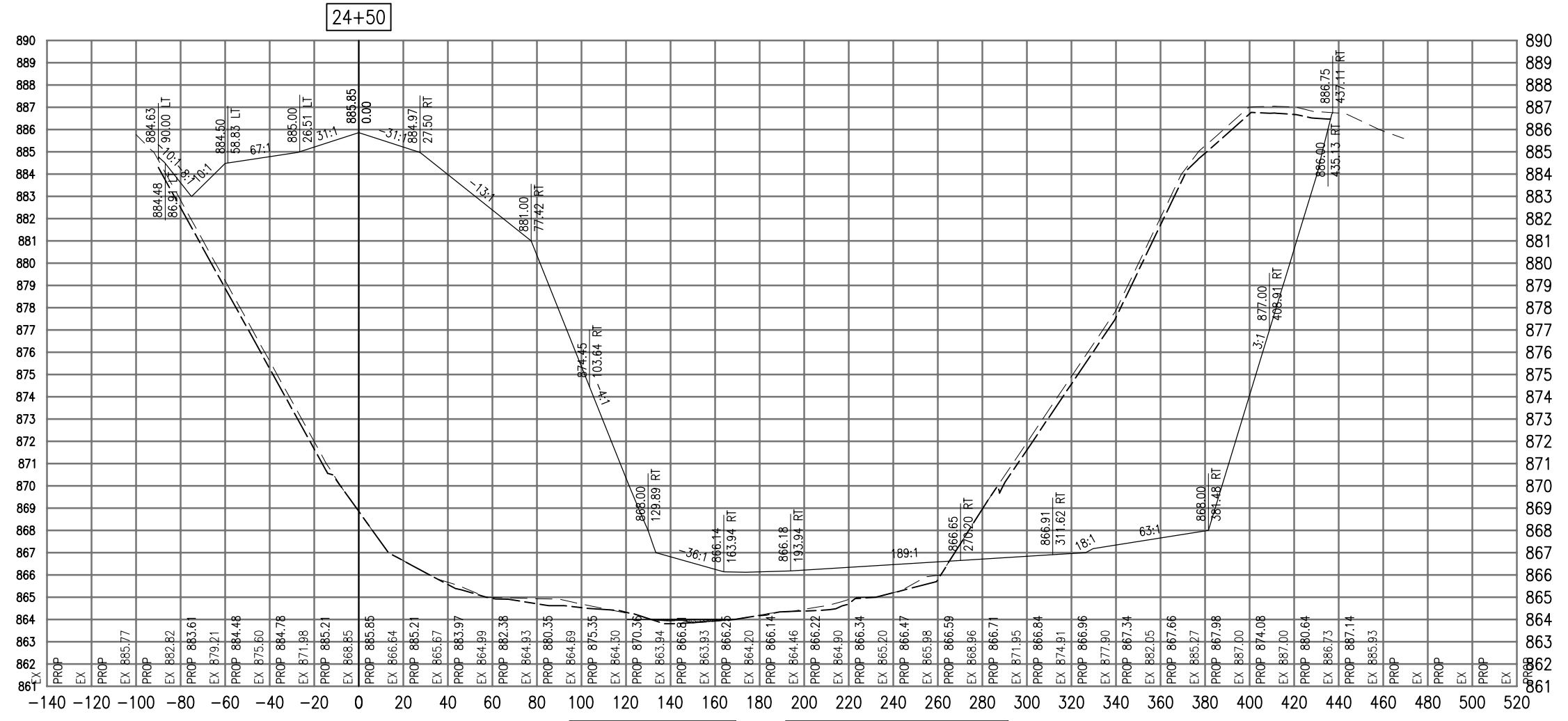
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SEE LEGEND, PAGE 17



Total Volume at Station 24+50.00	
Cut Area	1533.22
Fill Area	2869.70
Cut Vol	1467.36
Fill Vol	2514.49
Cum Cut Vol	37678.12
Cum Fill Vol	25144.62
Net Vol	12533.50

Material(s) at Station 24+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	95.92	81.27	1449.71

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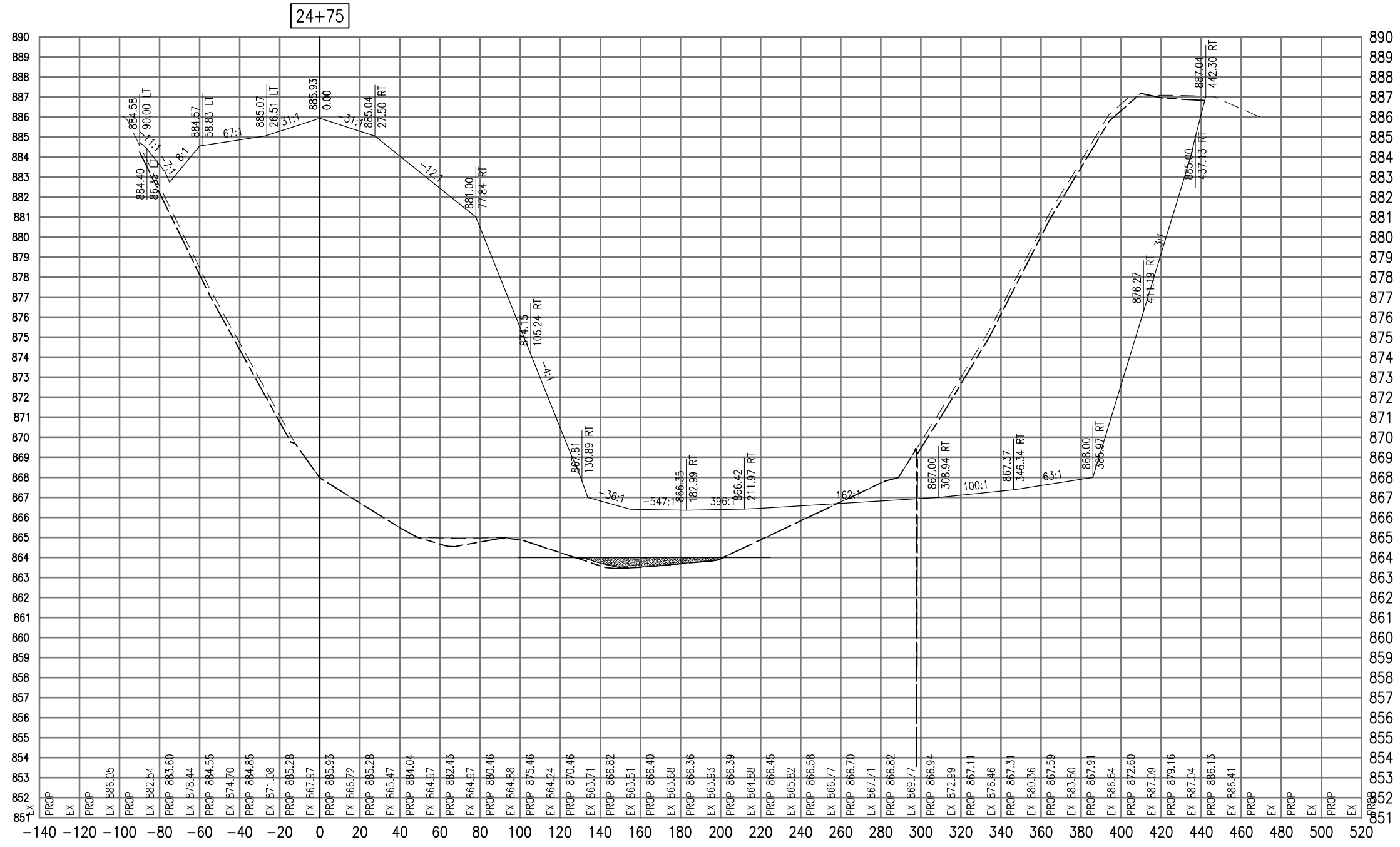
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SEE LEGEND, PAGE 17



Total Volume at Station 24+75.00	
Cut Area	1414.08
Fill Area	2984.04
Cut Vol	1364.50
Fill Vol	2710.06
Cum Cut Vol	39042.62
Cum Fill Vol	27854.69
Net Vol	11187.93

Material(s) at Station 24+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	82.34	82.53	1532.23

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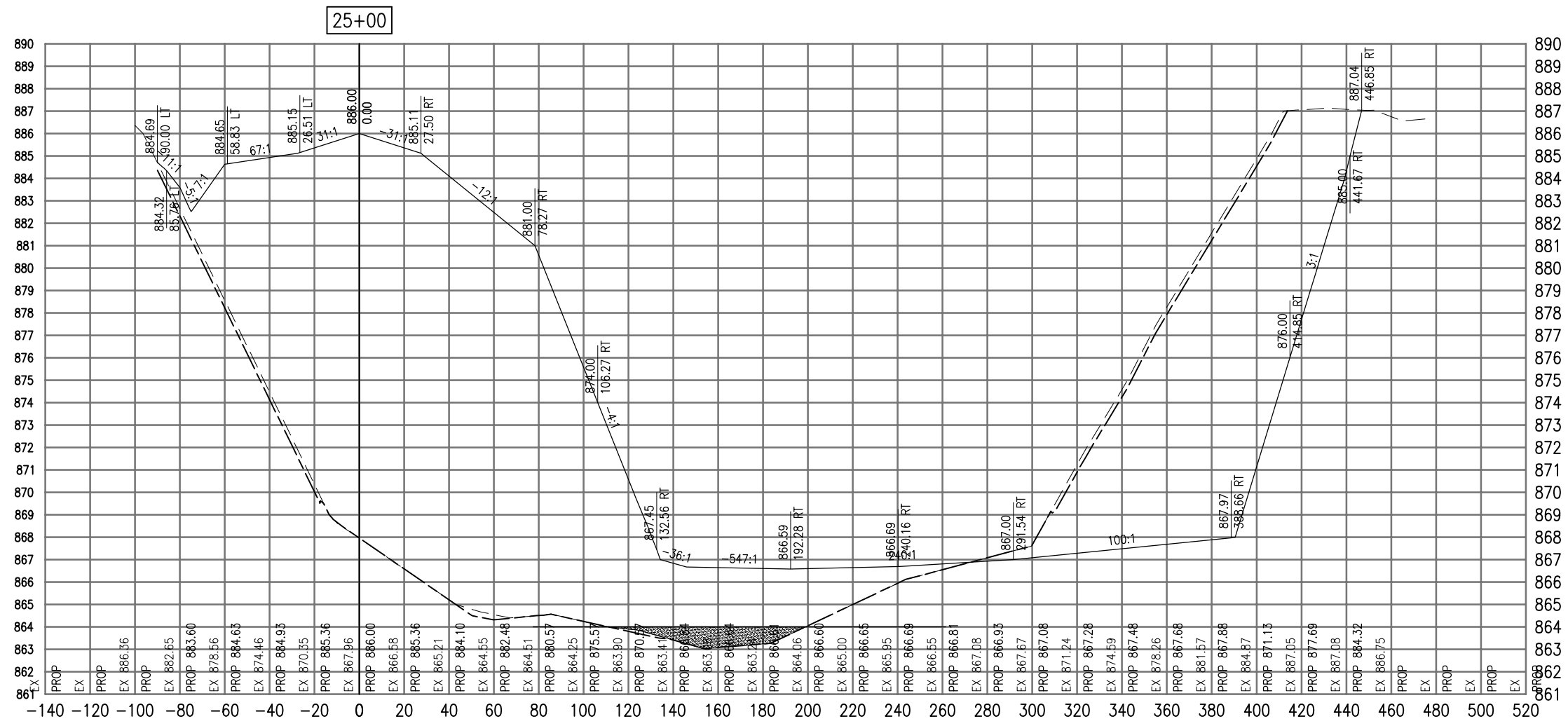


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25+00

Total Volume at Station 25+00.00	
Cut Area	1244.89
Fill Area	3100.74
Cut Vol	1231.00
Fill Vol	2817.03
Cum Cut Vol	40273.62
Cum Fill Vol	30671.72
Net Vol	9601.90

Material(s) at Station 25+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	65.70	68.53	1600.77

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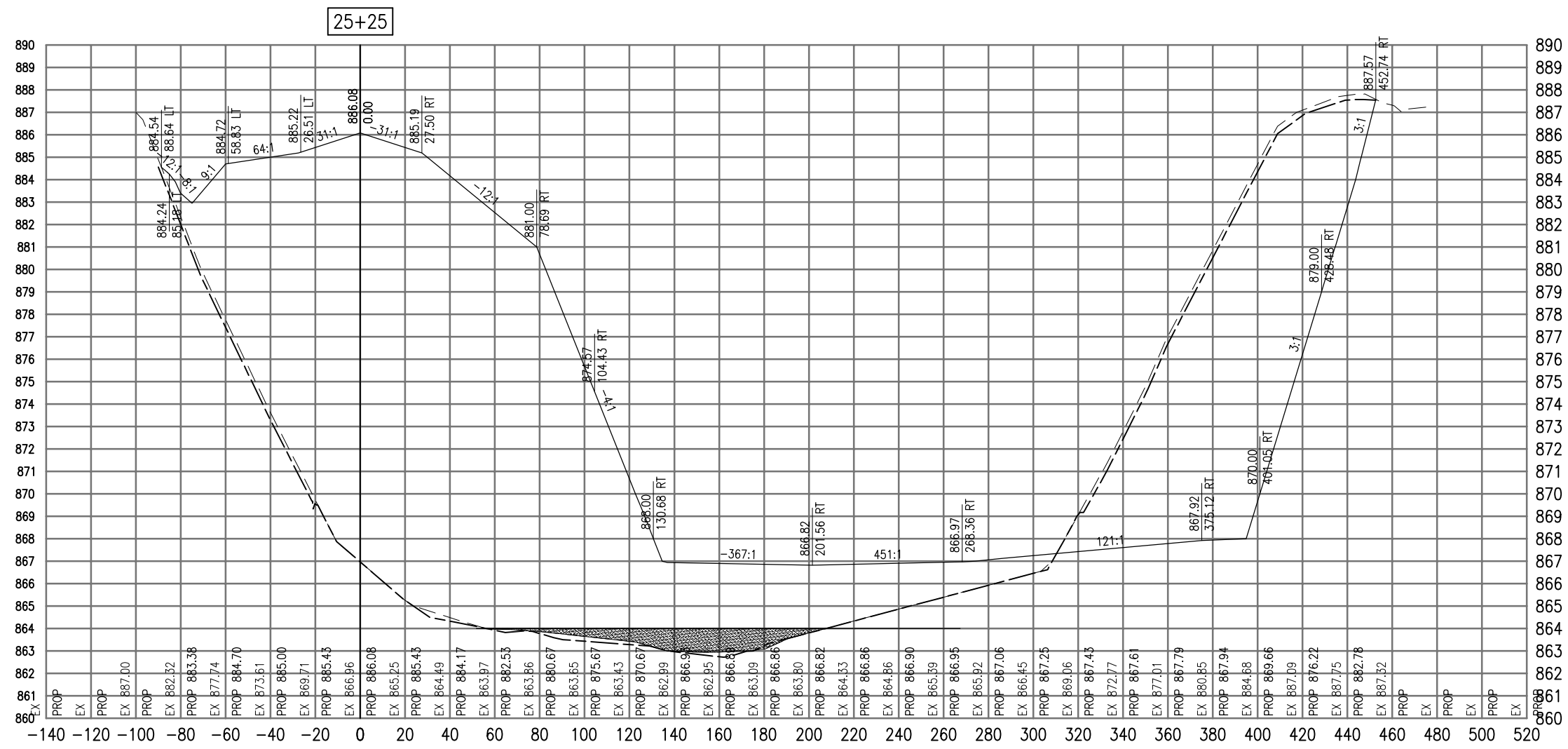


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25+25

Total Volume at Station 25+25.00	
Cut Area	1188.97
Fill Area	3418.46
Cut Vol	1126.78
Fill Vol	3018.15
Cum Cut Vol	41400.40
Cum Fill Vol	33689.87
Net Vol	7710.54

Material(s) at Station 25+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	82.04	68.39	1669.16

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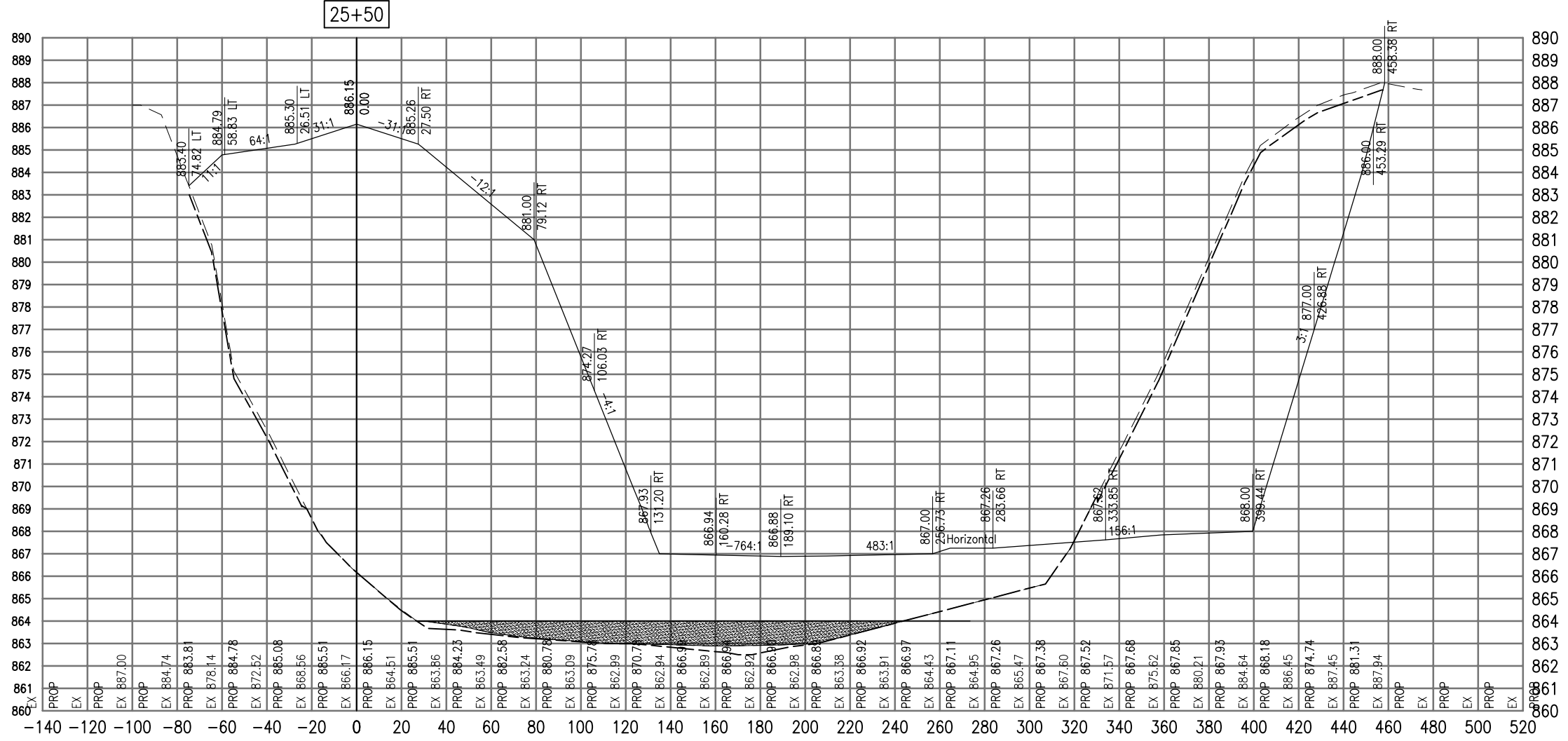


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Total Volume at Station 25+50.00	
Cut Area	1184.53
Fill Area	3678.78
Cut Vol	1098.84
Fill Vol	3285.76
Cum Cut Vol	42499.25
Cum Fill Vol	36975.63
Net Vol	5523.62

Material(s) at Station 25+50.00		
Material Name	Area	Volume
Cut	88.01	78.73
		1747.89

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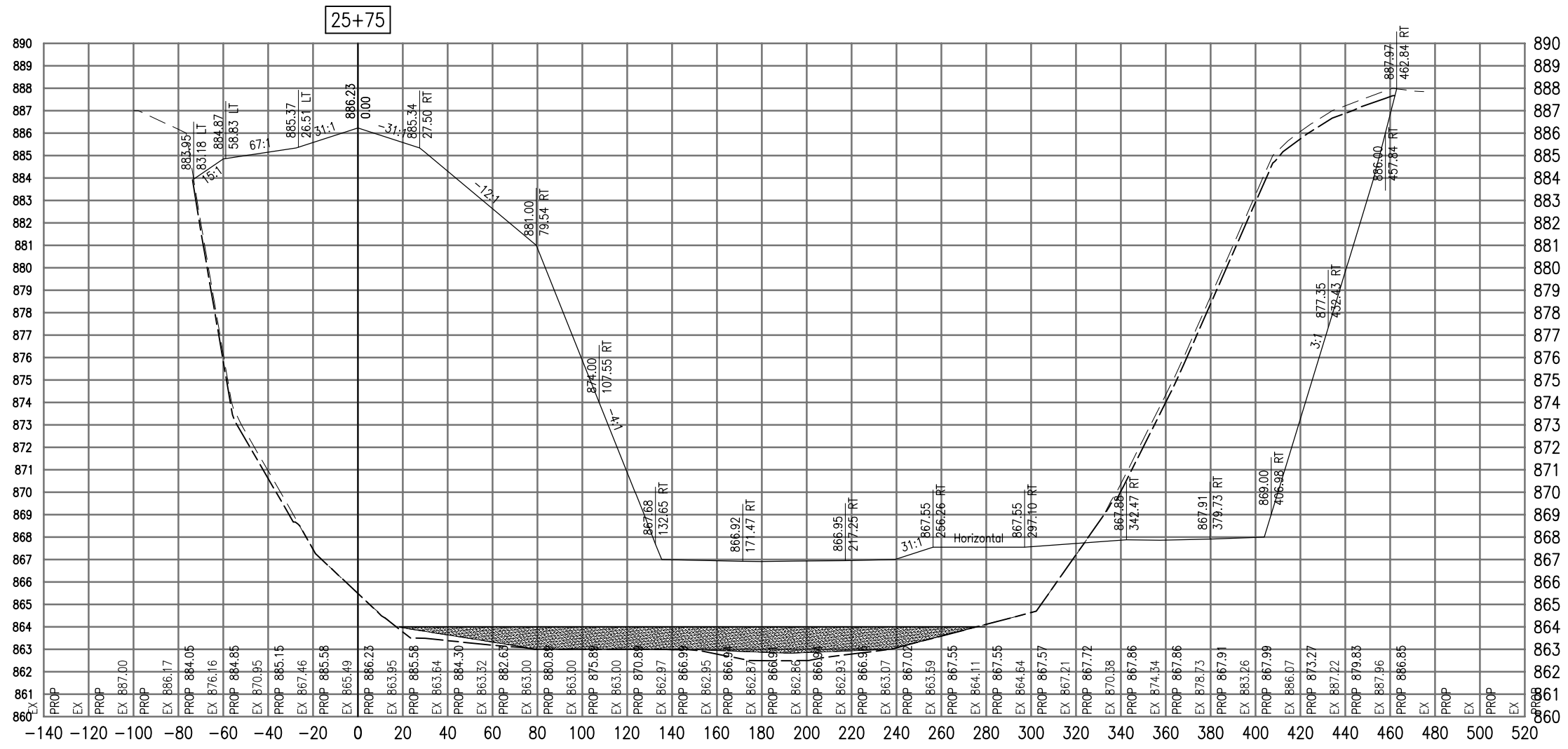
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STAGE 1, GRADING AND DRAINAGE**  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12



SEE LEGEND, PAGE 17



Total Volume at Station 25+75.00	
Cut Area	1159.15
Fill Area	3919.01
Cut Vol	1085.04
Fill Vol	3517.49
Cum Cut Vol	43584.28
Cum Fill Vol	40493.12
Net Vol	3091.16

Material(s) at Station 25+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	93.70	84.13	1832.02

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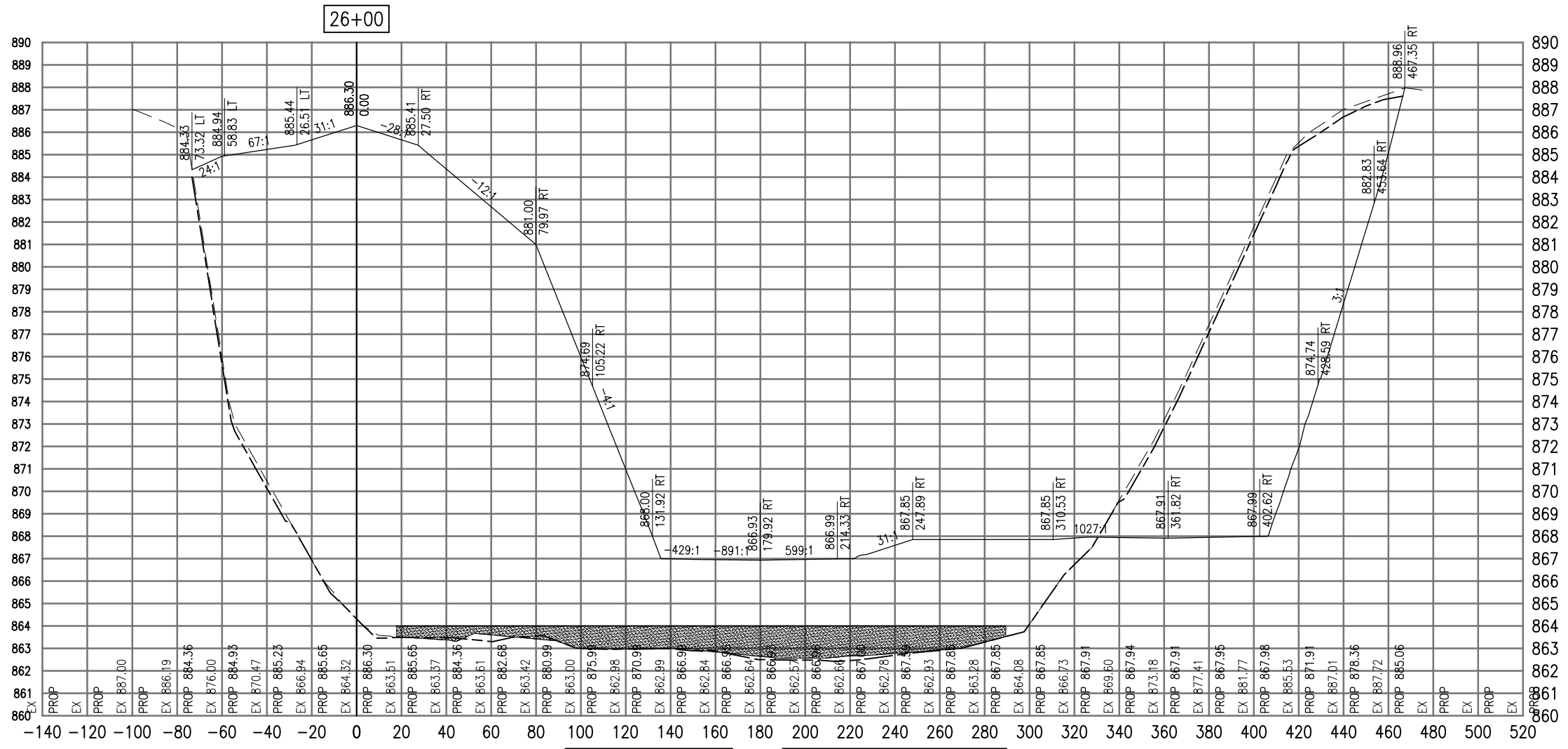


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Total Volume at Station 26+00.00	
Cut Area	1117.34
Fill Area	4093.63
Cut Vol	1053.93
Fill Vol	3709.55
Cum Cut Vol	44638.21
Cum Fill Vol	44202.67
Net Vol	435.54

Material(s) at Station 26+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	74.84	78.03	1910.04

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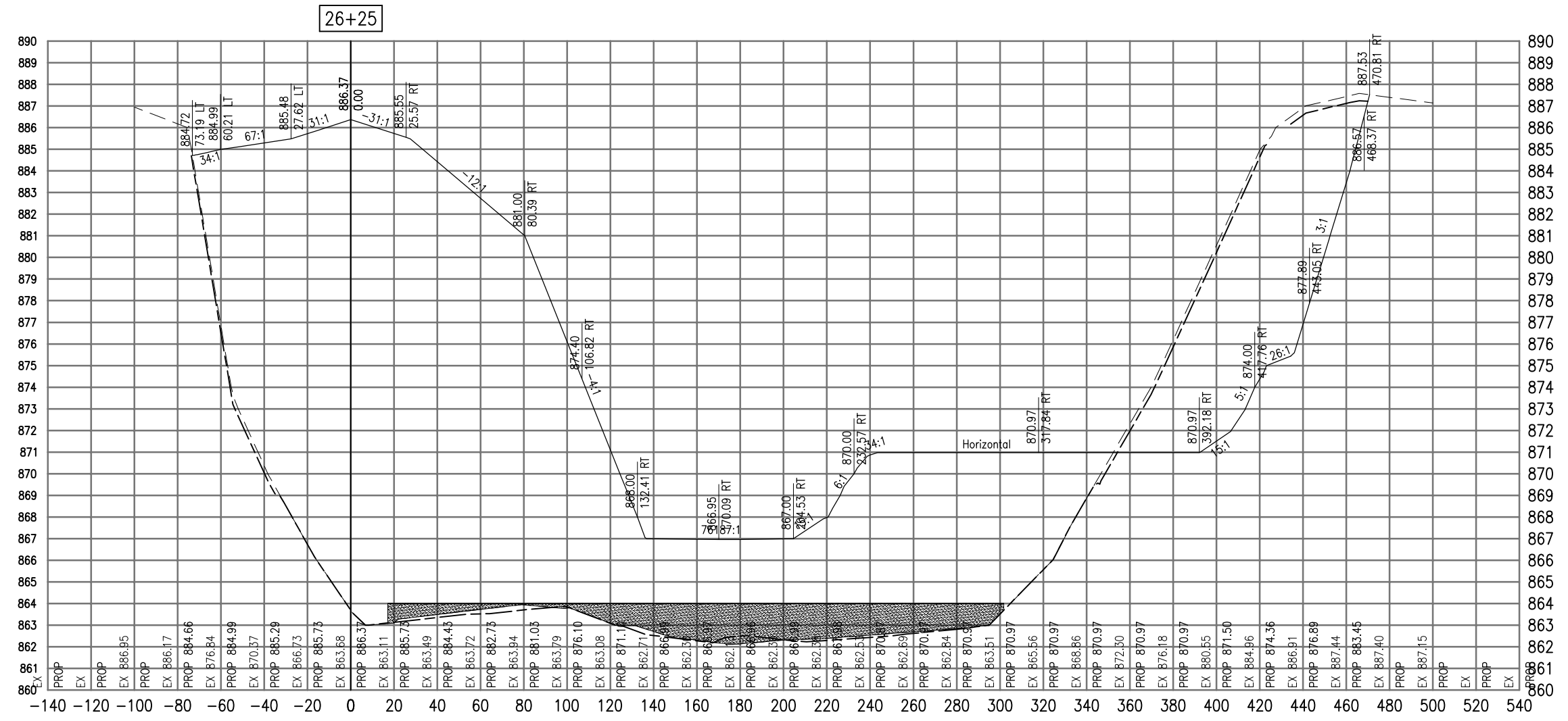


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Cut Area	694.59
Fill Area	4558.87
Cut Vol	838.86
Fill Vol	4005.79
Cum Cut Vol	45477.07
Cum Fill Vol	48208.46
Net Vol	-2731.39

Material Name	Area	Volume	Cumulative Volume
Cut	78.34	70.92	1980.96

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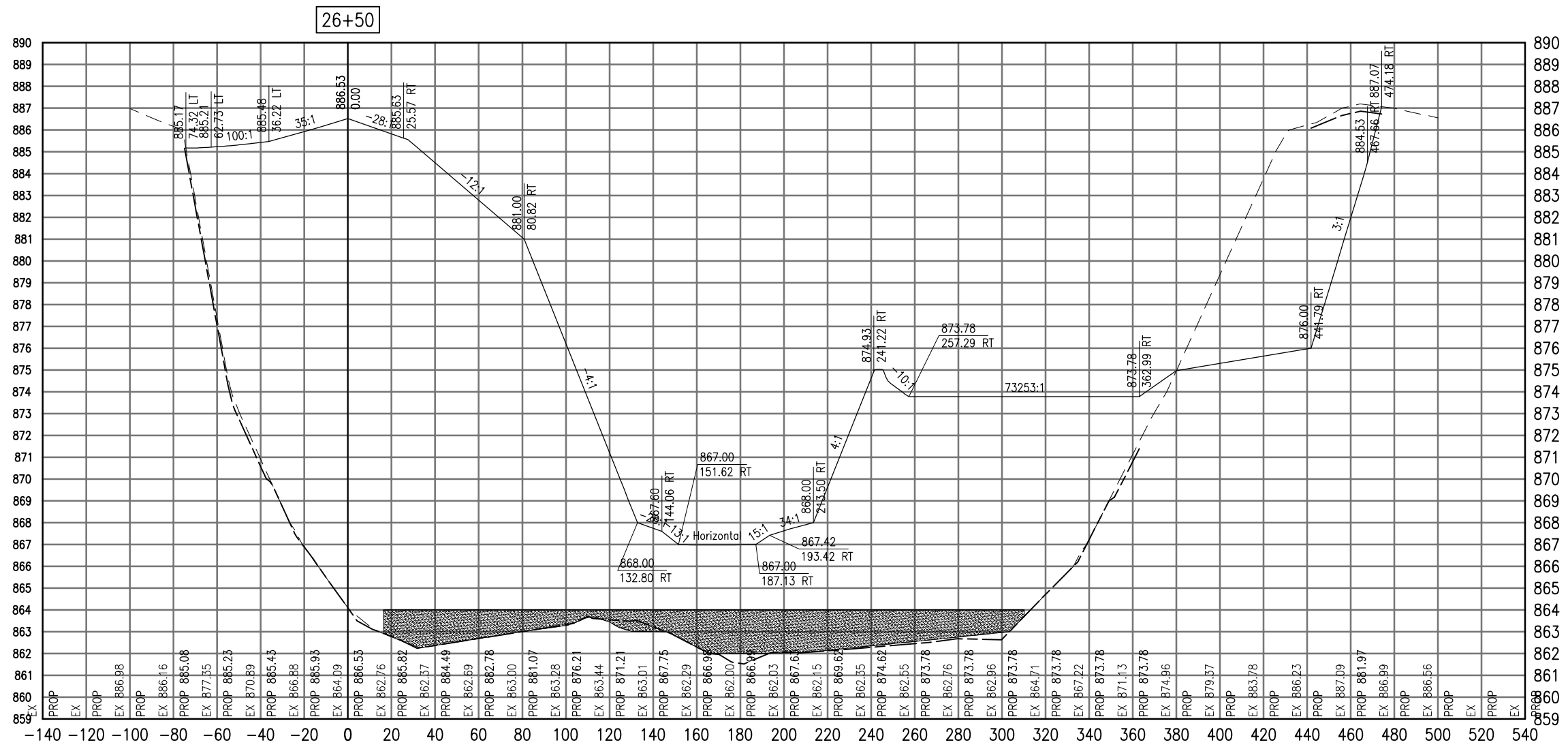


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26+50

Total Volume at Station 26+50.00	
Cut Area	196.29
Fill Area	5147.73
Cut Vol	90.88
Fill Vol	2383.21
Cum Cut Vol	90.88
Cum Fill Vol	2383.21
Net Vol	-2292.33

Material(s) at Station 26+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	50.01	23.15	23.15

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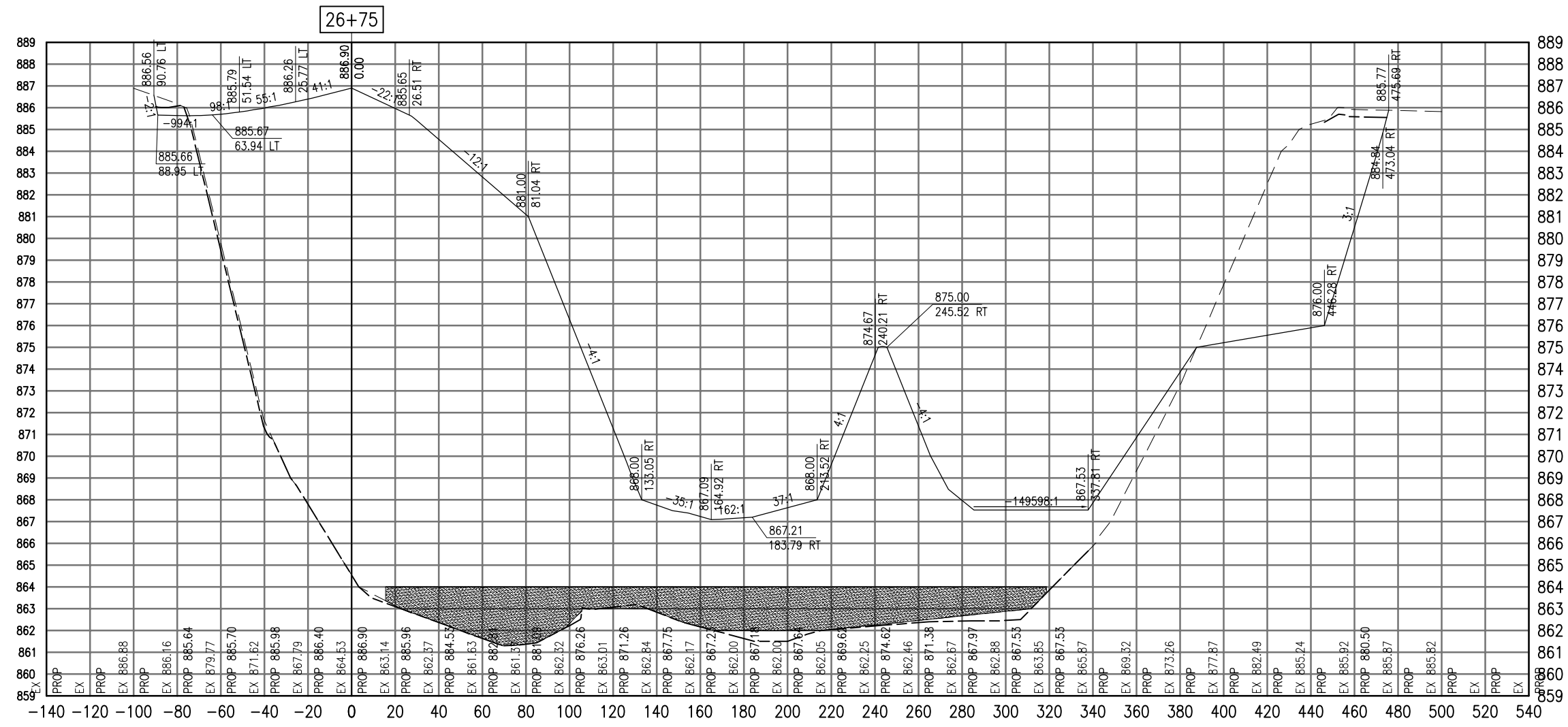


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Total Volume at Station 26+75.00	
Cut Area	156.66
Fill Area	4644.81
Cut Vol	163.40
Fill Vol	4533.58
Cum Cut Vol	254.28
Cum Fill Vol	6916.79
Net Vol	-6662.51

Material(s) at Station 26+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	60.26	51.05	74.20

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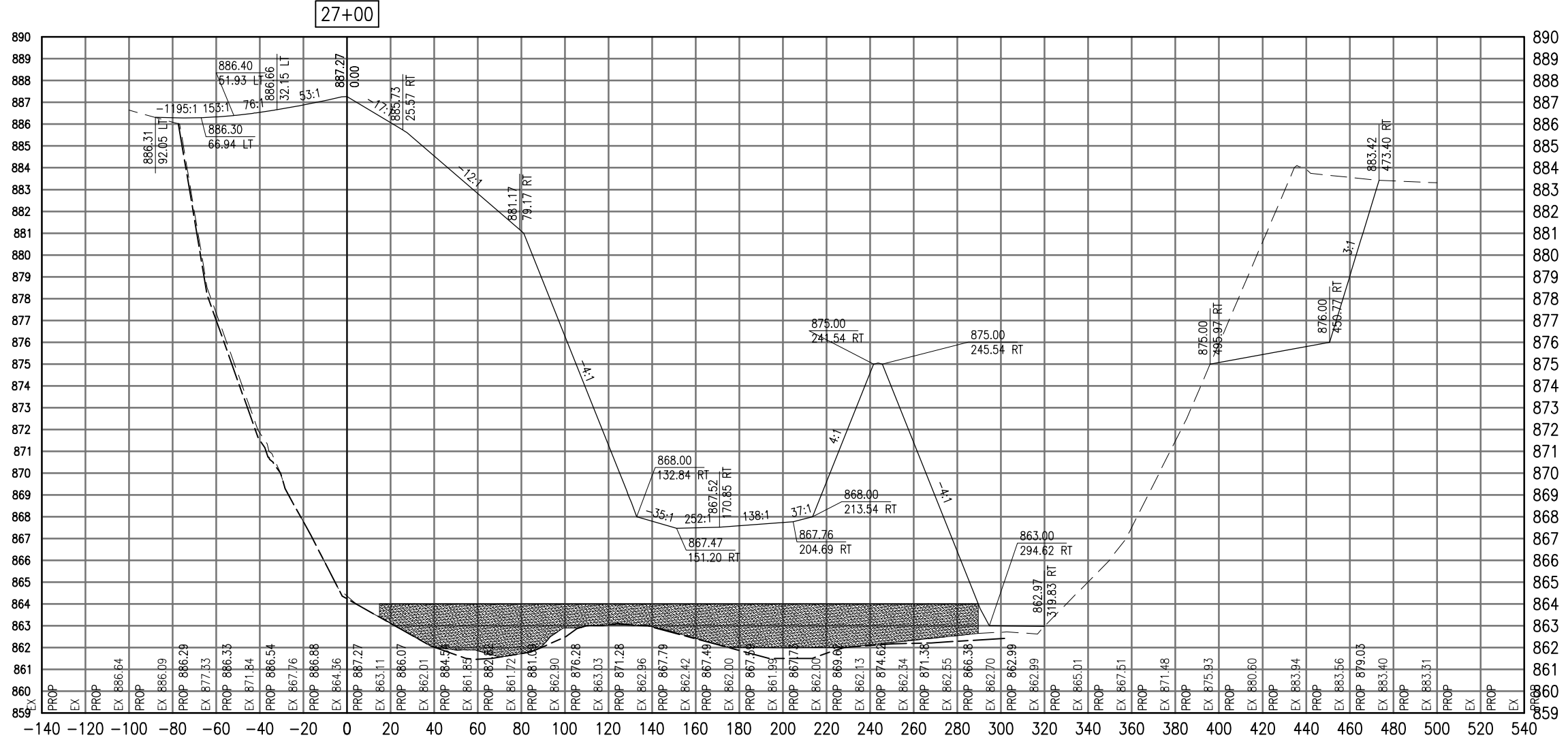


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Total Volume at Station 27+00.00	
Cut Area	86.56
Fill Area	4544.36
Cut Vol	112.60
Fill Vol	4254.24
Cum Cut Vol	366.88
Cum Fill Vol	11171.04
Net Vol	-10804.16

Material(s) at Station 27+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	65.03	58.00	132.21

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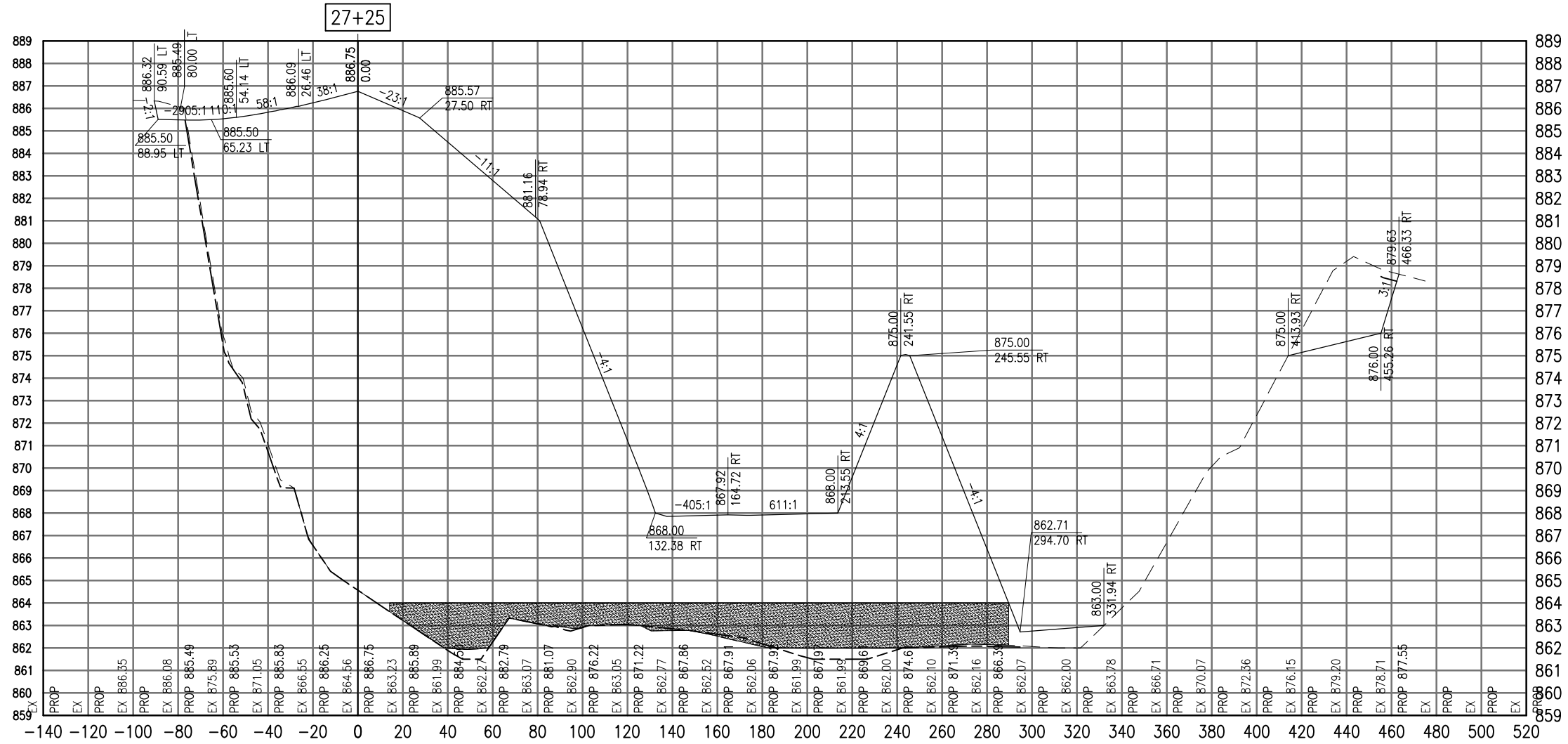
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Total Volume at Station 27+25.00	
Cut Area	19.97
Fill Area	4523.12
Cut Vol	49.32
Fill Vol	4197.90
Cum Cut Vol	416.20
Cum Fill Vol	15368.94
Net Vol	-14952.74

Material(s) at Station 27+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	54.73	55.44	187.65

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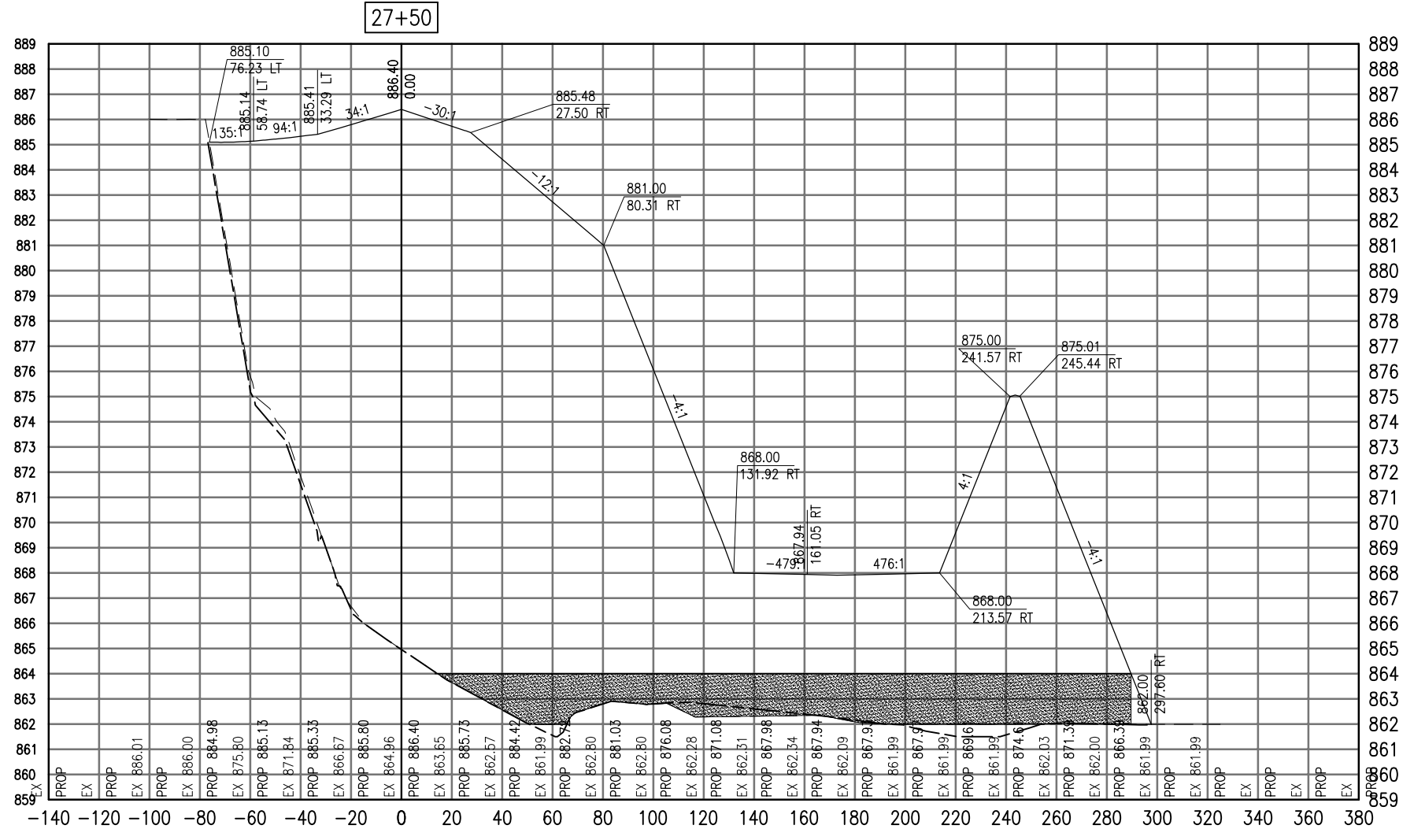
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27+50

Total Volume at Station 27+50.00	
Cut Area	12.72
Fill Area	4484.11
Cut Vol	15.14
Fill Vol	4170.01
Cum Cut Vol	431.34
Cum Fill Vol	19538.95
Net Vol	-19107.61

Material(s) at Station 27+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	46.96	47.08	234.73

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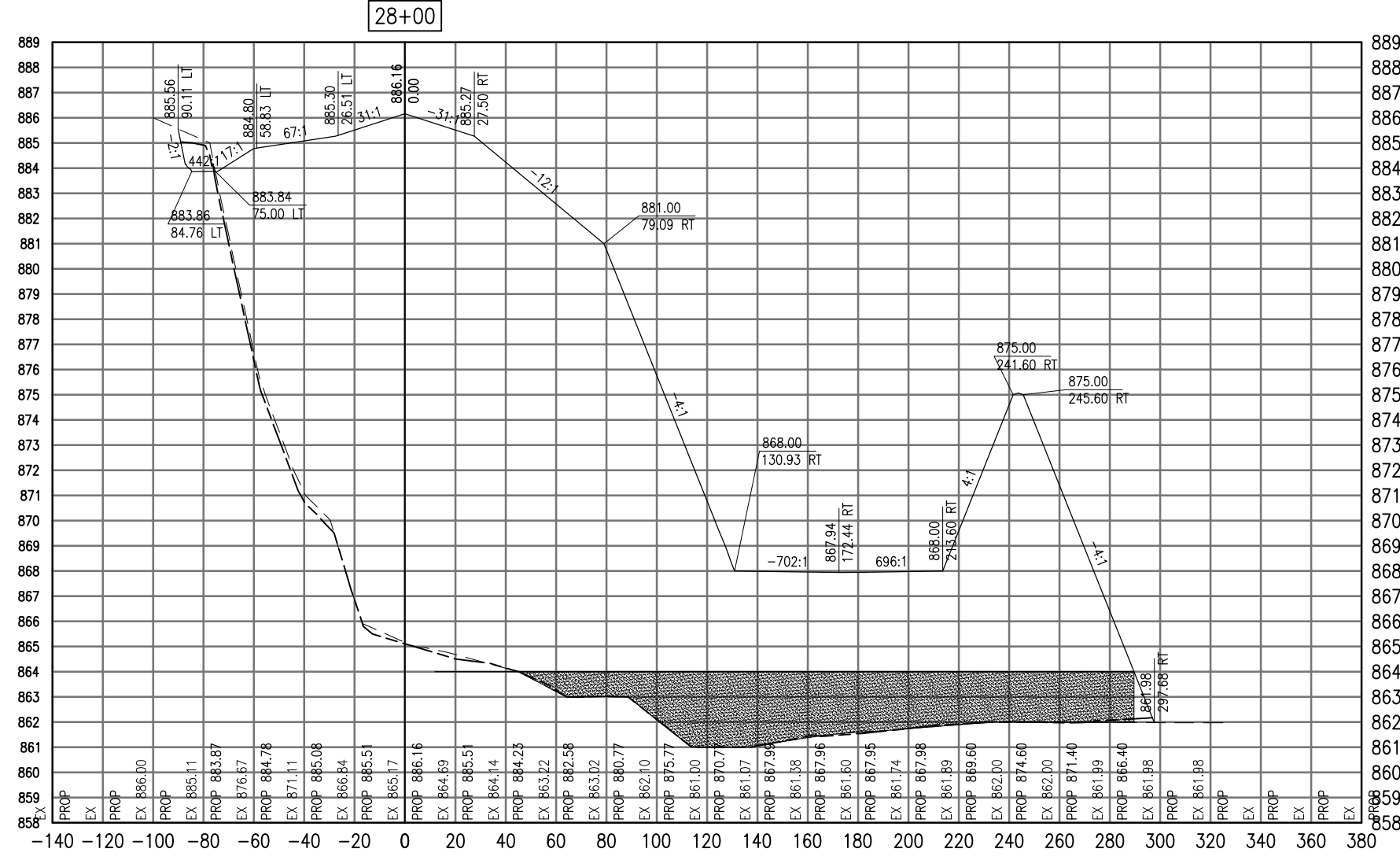
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STAGE 1, GRADING AND DRAINAGE**  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12





SEE LEGEND, PAGE 17



Total Volume at Station 28+00.00	
Cut Area	15.73
Fill Area	4441.31
Cut Vol	16.11
Fill Vol	4103.35
Cum Cut Vol	462.17
Cum Fill Vol	27765.47
Net Vol	-27303.30

Material(s) at Station 28+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	27.70	31.59	306.83

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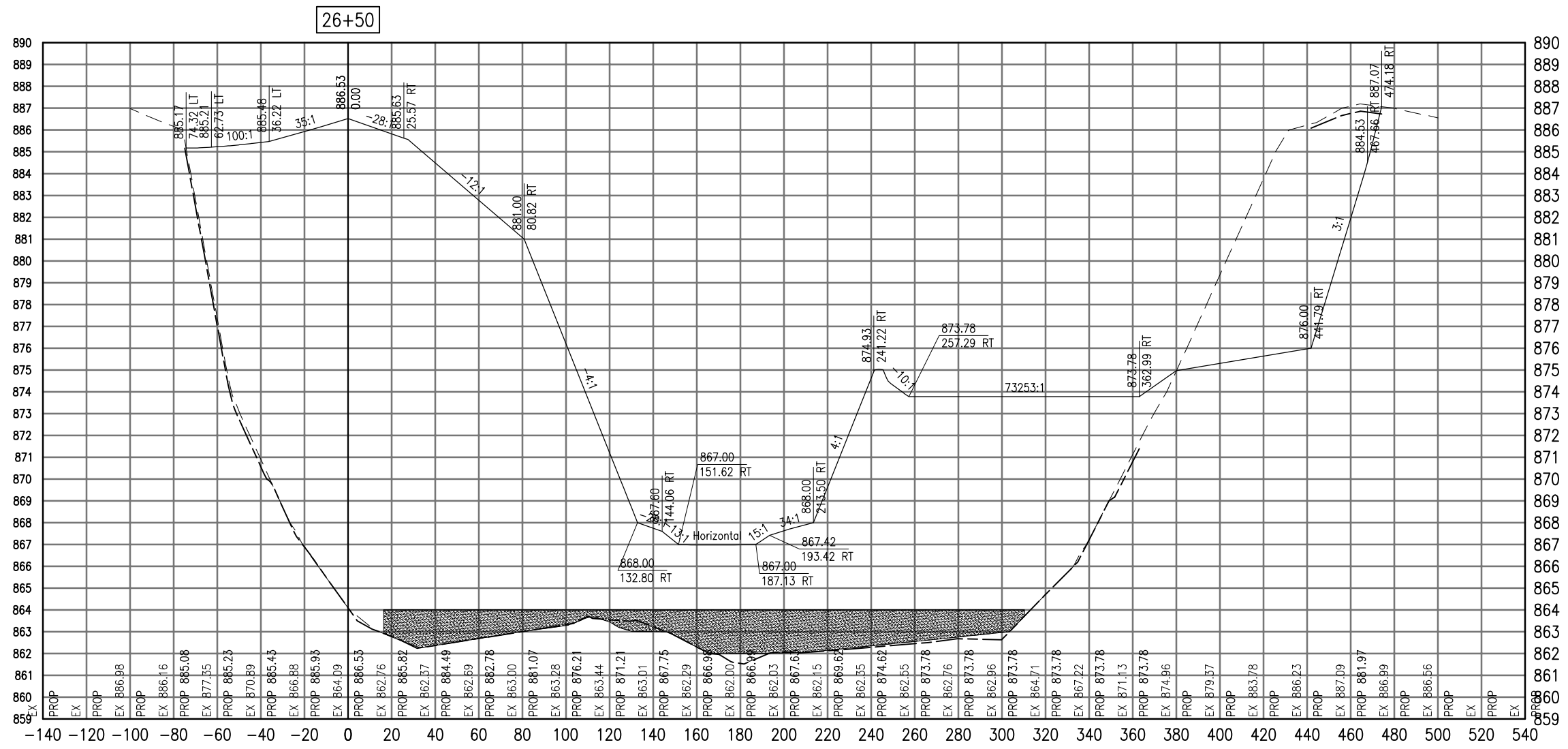
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SEE LEGEND, PAGE 17



26+50

Total Volume at Station 26+50.00	
Cut Area	196.29
Fill Area	5147.73
Cut Vol	90.88
Fill Vol	2383.21
Cum Cut Vol	90.88
Cum Fill Vol	2383.21
Net Vol	-2292.33

Material(s) at Station 26+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	50.01	23.15	23.15

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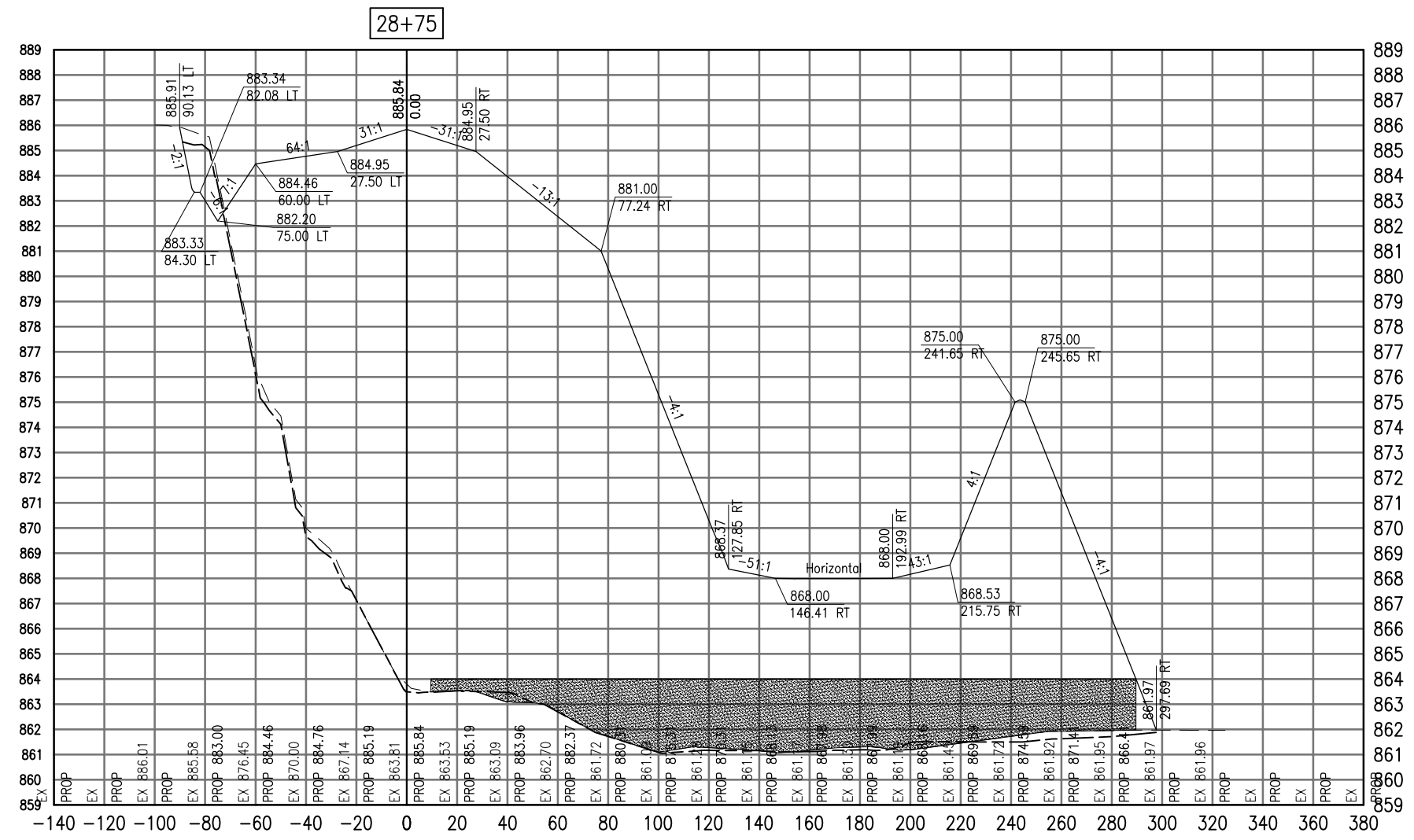


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SEE LEGEND, PAGE 17



28+75

Cut Area	32.46
Fill Area	4539.42
Cut Vol	26.20
Fill Vol	4188.62
Cum Cut Vol	524.60
Cum Fill Vol	40178.01
Net Vol	-3953.41

Material Name	Area	Volume	Cumulative Volume
Cut	50.03	42.49	410.50

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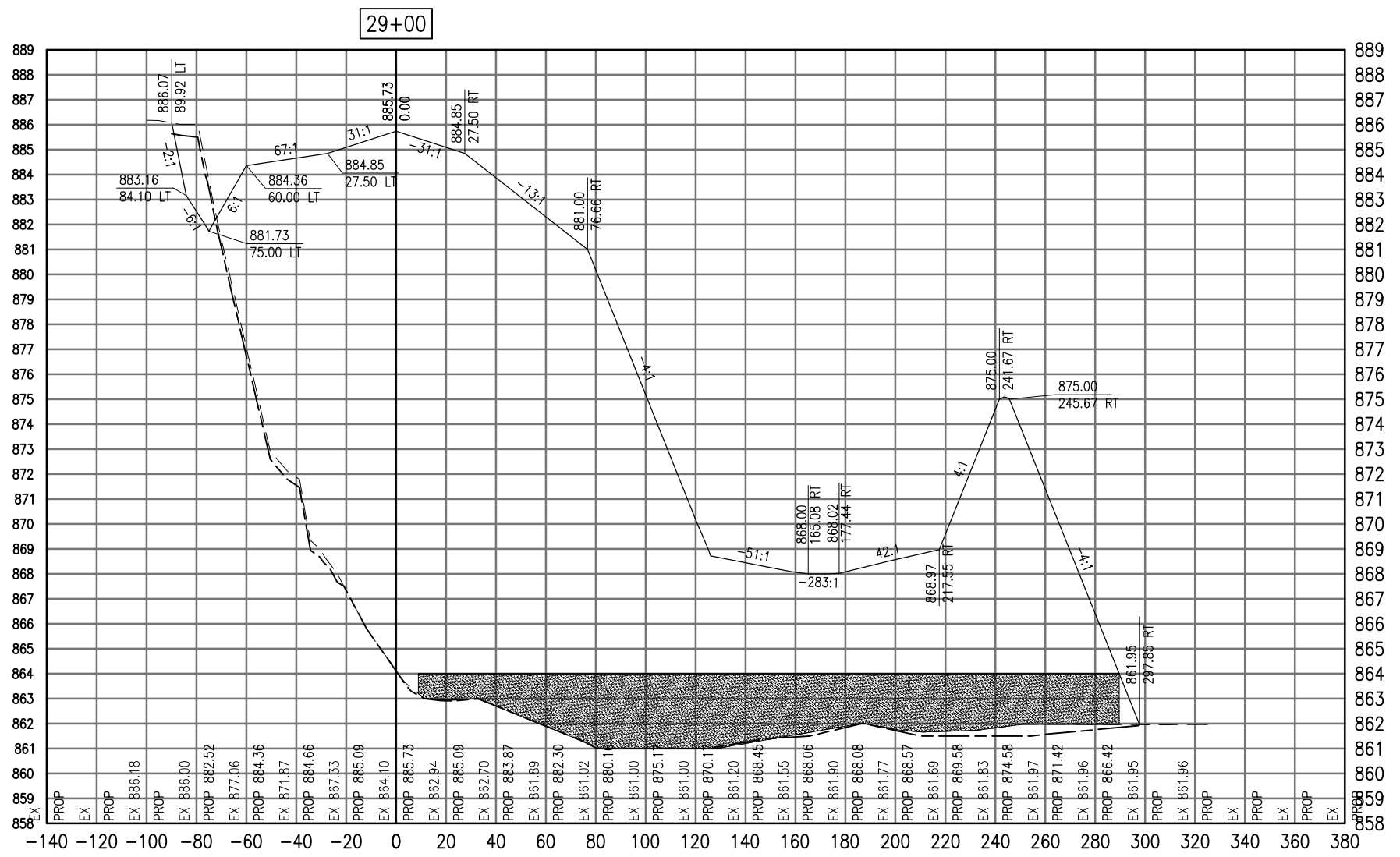


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Cut Area	38.59
Fill Area	4541.71
Cut Vol	17.87
Fill Vol	2102.64
Cum Cut Vol	17.87
Cum Fill Vol	2102.64
Net Vol	-2084.78

Material Name	Area	Volume	Cumulative Volume
Cut	52.23	24.18	24.18

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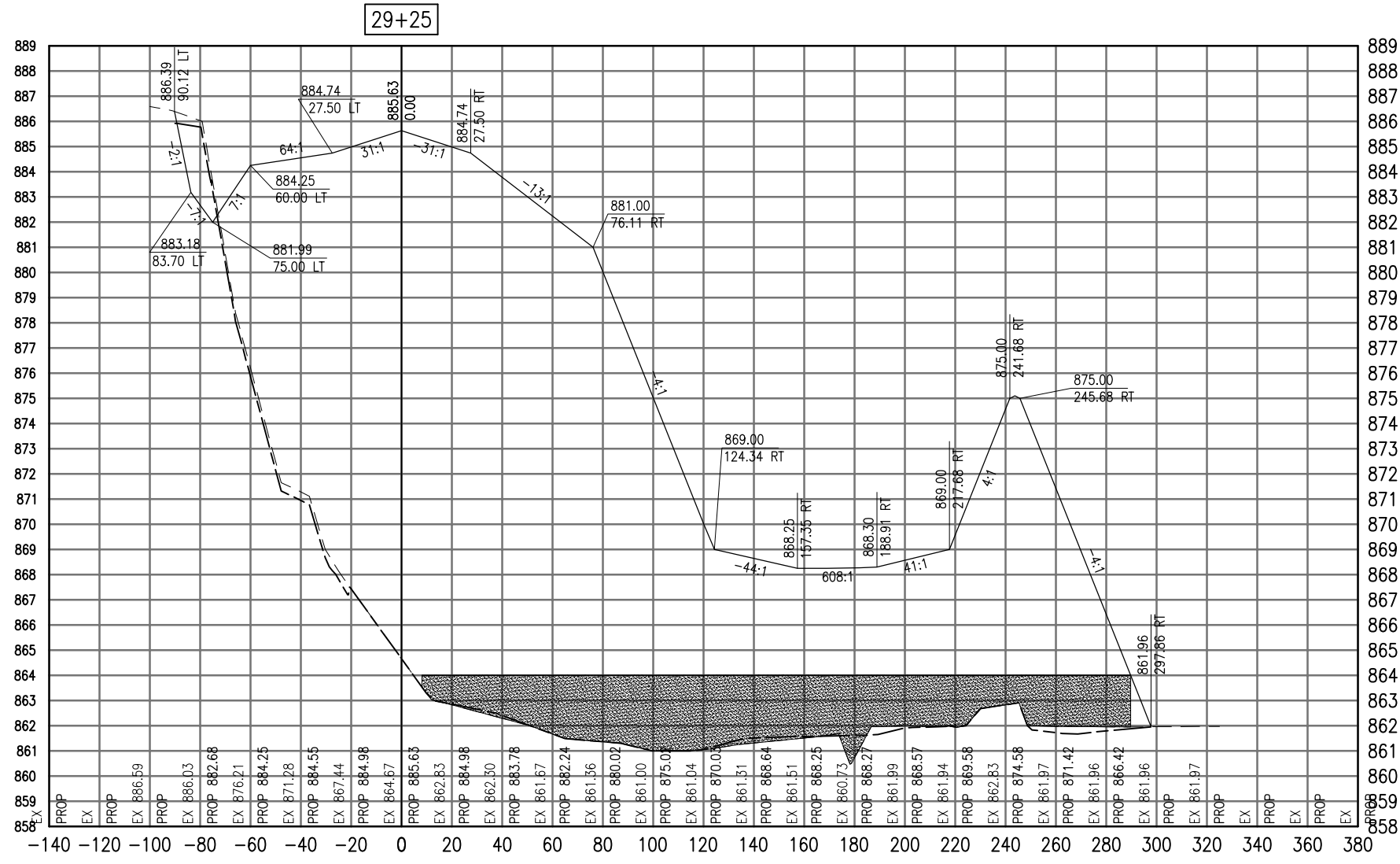


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SEE LEGEND, PAGE 17



Total Volume at Station 29+25.00	
Cut Area	36.40
Fill Area	4529.99
Cut Vol	34.72
Fill Vol	4199.86
Cum Cut Vol	52.59
Cum Fill Vol	6302.50
Net Vol	-6249.92

Material(s) at Station 29+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	36.81	41.22	65.40

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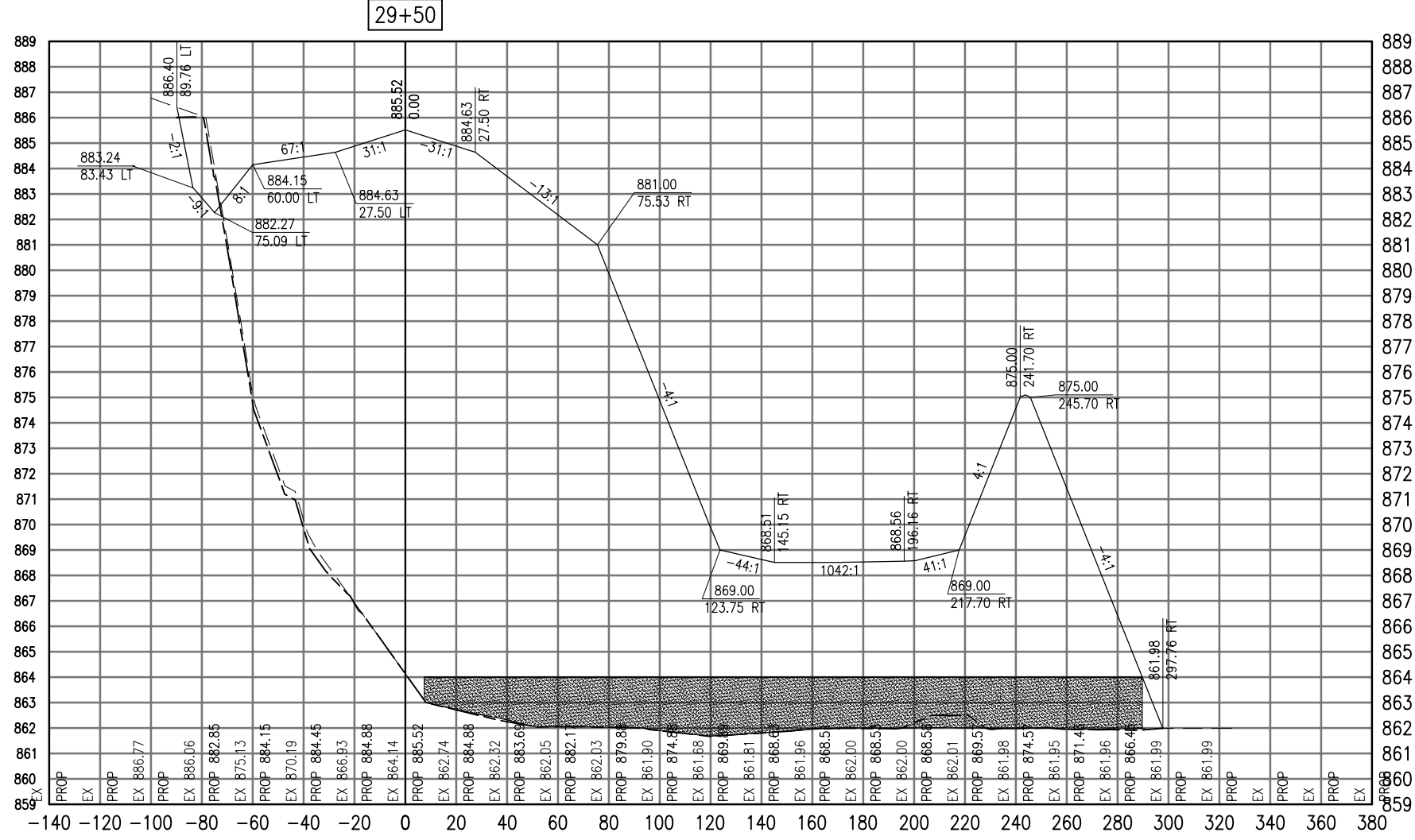


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29+50

Cut Area	36.05
Fill Area	4500.87
Cut Vol	33.54
Fill Vol	4180.95
Cum Cut Vol	86.13
Cum Fill Vol	10483.46
Net Vol	-10397.33

Material Name	Area	Volume	Cumulative Volume
Cut	23.73	28.03	93.43

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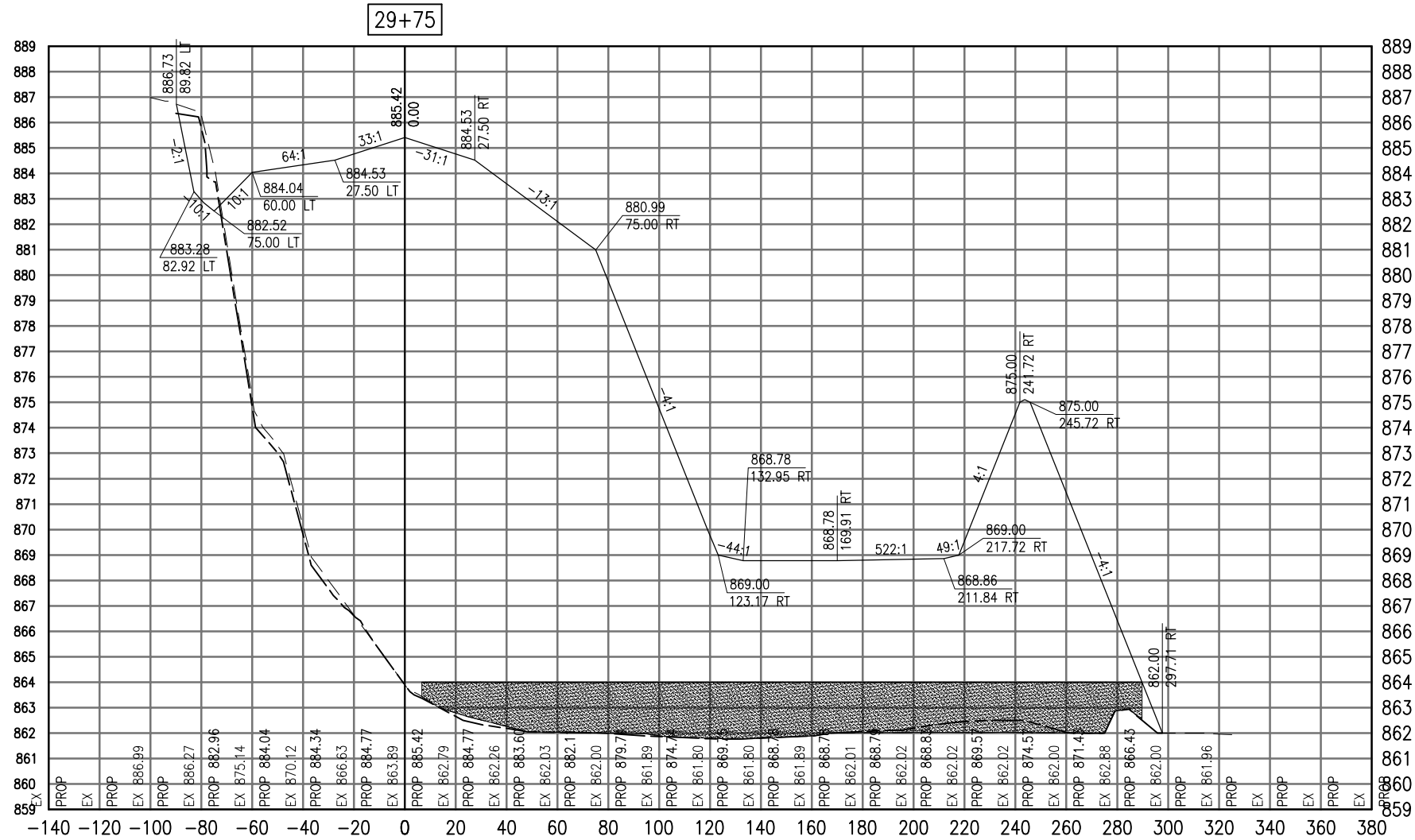
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SEE LEGEND, PAGE 17



29+75

Total Volume at Station 29+75.00	
Cut Area	35.67
Fill Area	4484.54
Cut Vol	33.20
Fill Vol	4159.91
Cum Cut Vol	119.33
Cum Fill Vol	14643.37
Net Vol	-14524.04

Material(s) at Station 29+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	30.76	25.23	118.66

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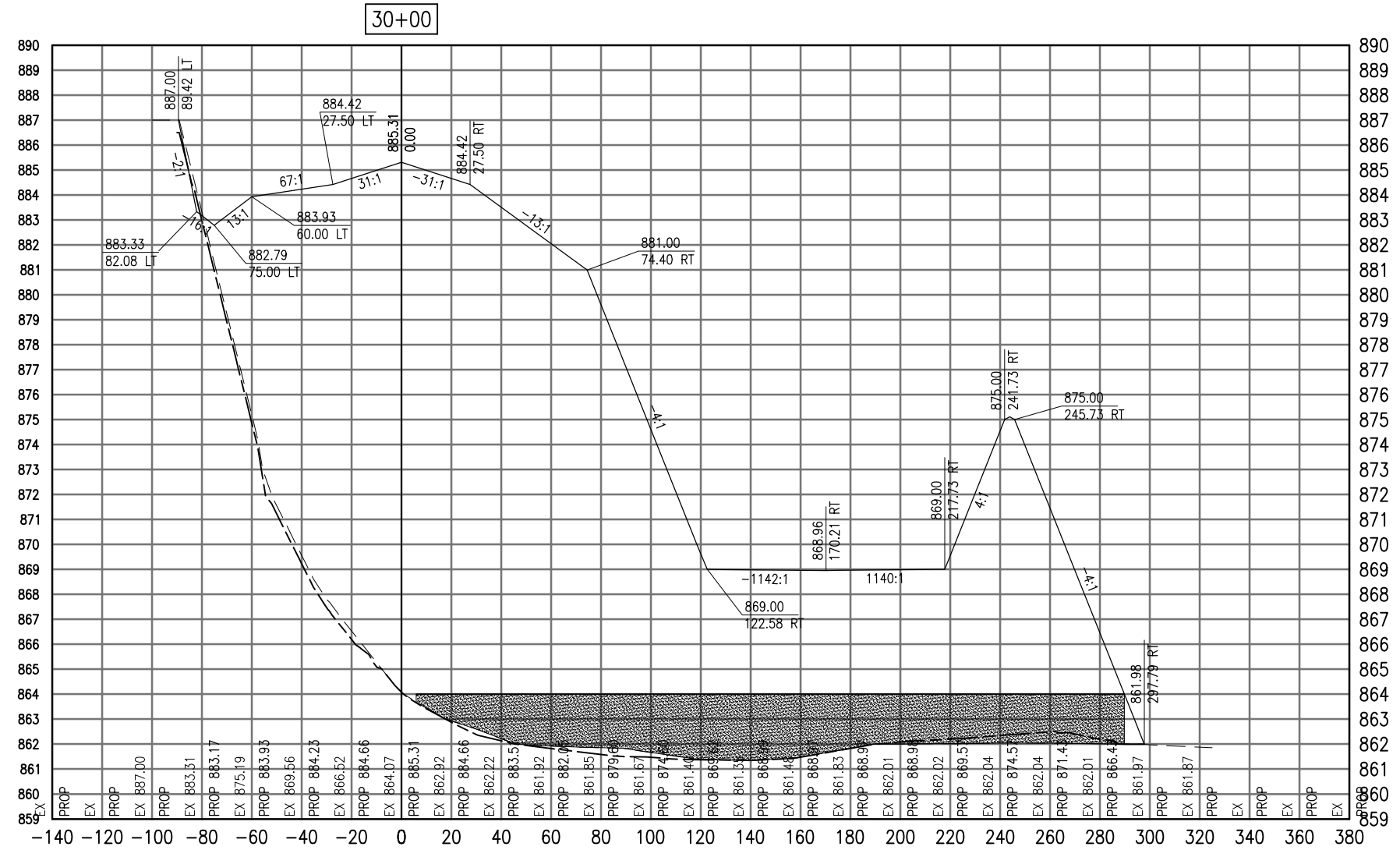


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30+00

Total Volume at Station 30+00.00	
Cut Area	4.49
Fill Area	4575.50
Cut Vol	18.59
Fill Vol	4194.46
Cum Cut Vol	137.92
Cum Fill Vol	18837.83
Net Vol	-18699.91

Material(s) at Station 30+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	43.49	34.38	153.04

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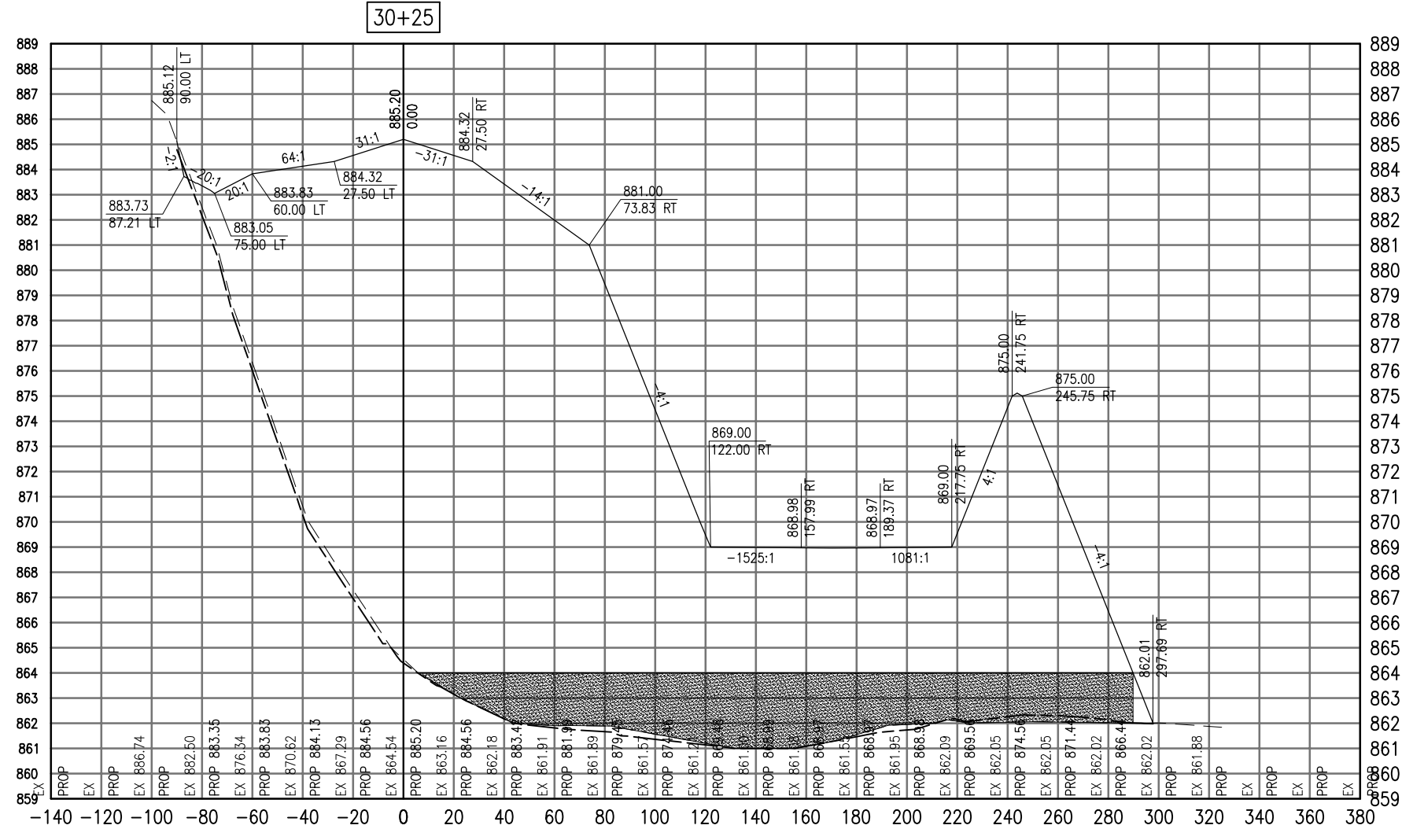


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Total Volume at Station 30+25.00	
Cut Area	2.00
Fill Area	4512.09
Cut Vol	3.00
Fill Vol	4207.22
Cum Cut Vol	140.93
Cum Fill Vol	23045.05
Net Vol	-22904.13

Material(s) at Station 30+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	46.84	41.82	194.86

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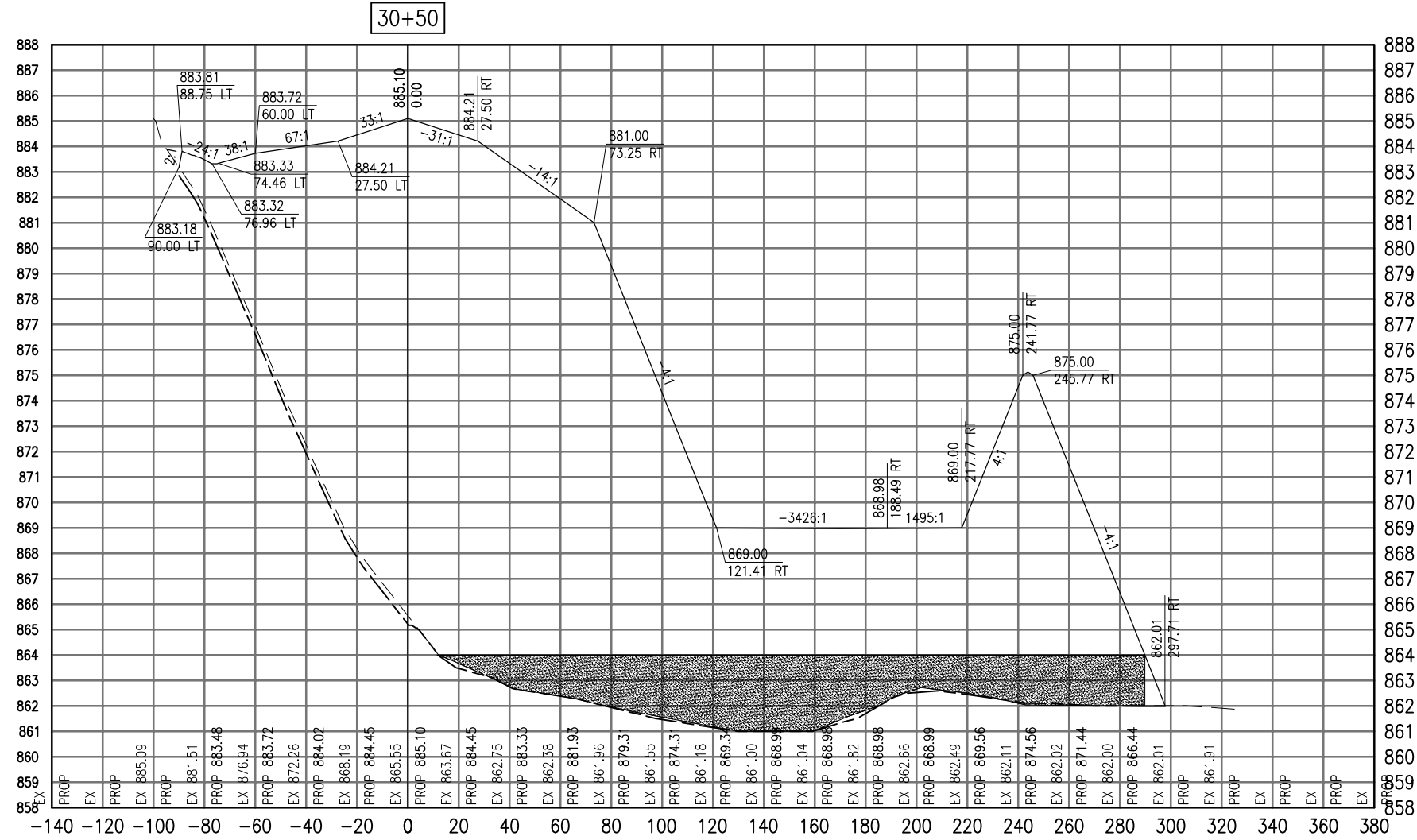


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Total Volume at Station 30+50.00	
Cut Area	0.00
Fill Area	4374.16
Cut Vol	0.92
Fill Vol	4114.01
Cum Cut Vol	141.85
Cum Fill Vol	27159.06
Net Vol	-27017.21

Material(s) at Station 30+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	40.89	40.61	235.47

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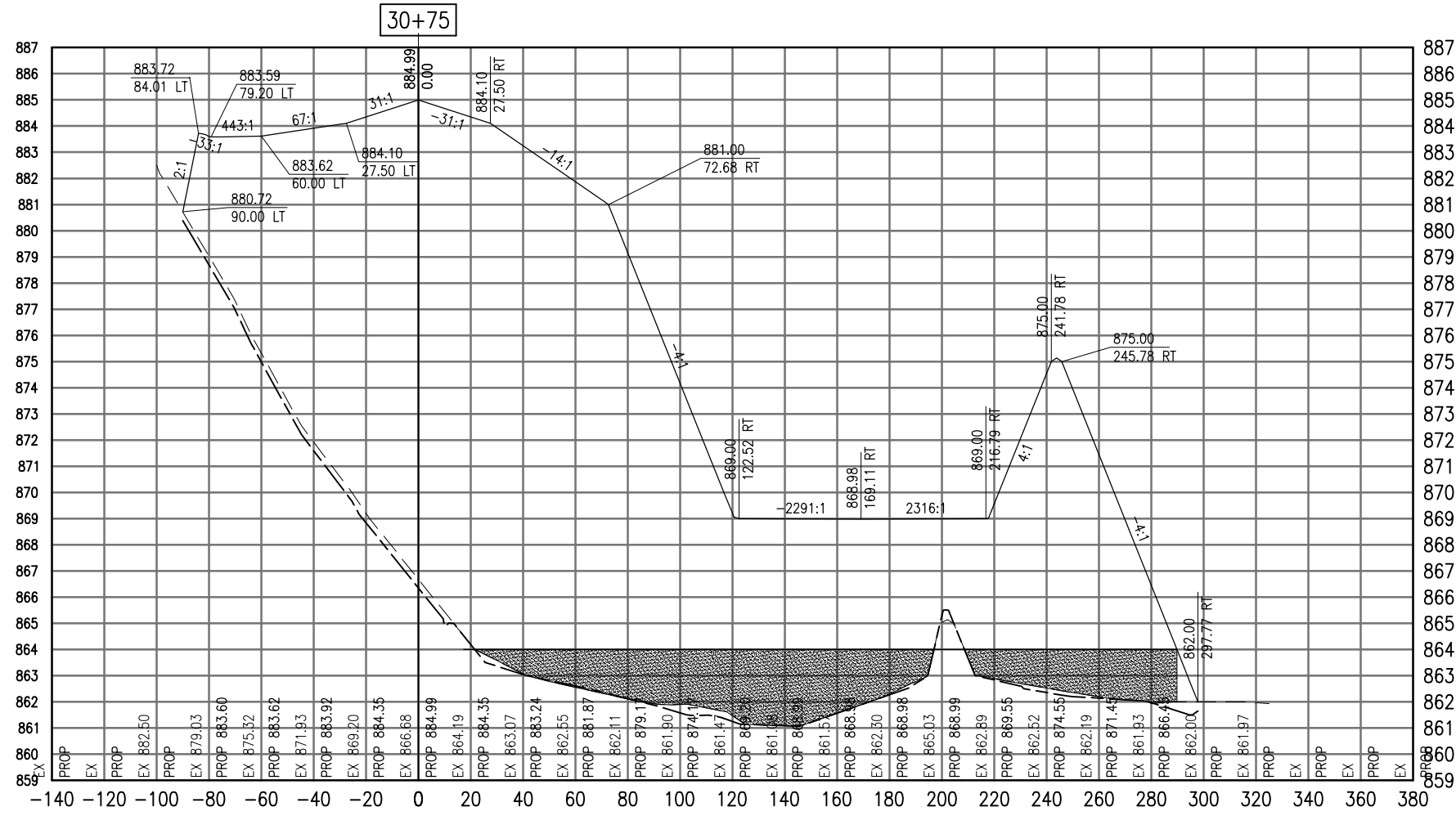


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30+75

Total Volume at Station 30+75.00	
Cut Area	0.00
Fill Area	4283.65
Cut Vol	0.00
Fill Vol	4008.25
Cum Cut Vol	141.85
Cum Fill Vol	31167.31
Net Vol	-31025.45

Material(s) at Station 30+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	58.02	45.79	281.26

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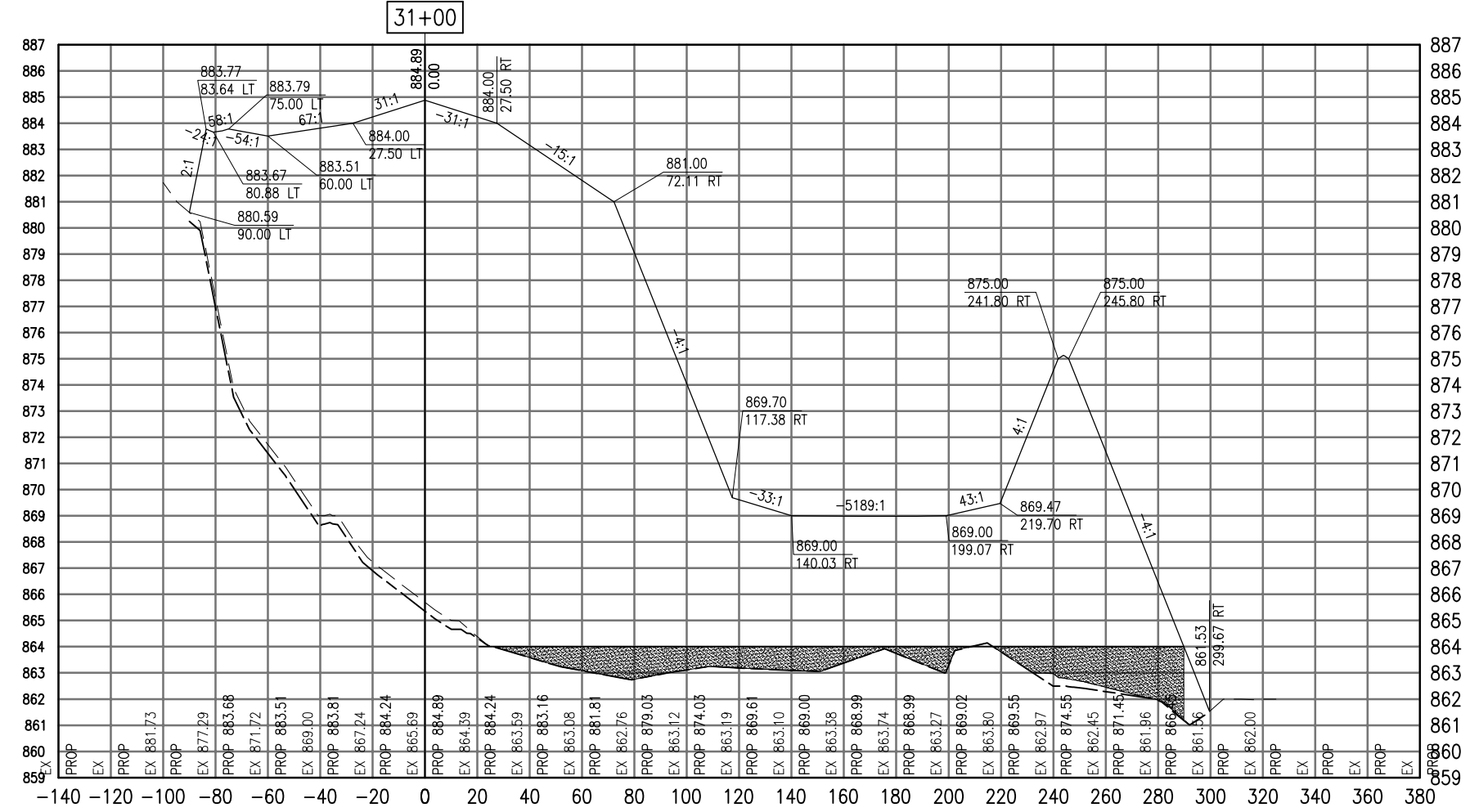


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Cut Area	0.00
Fill Area	4290.59
Cut Vol	0.00
Fill Vol	3969.56
Cum Cut Vol	141.85
Cum Fill Vol	35136.86
Net Vol	-34995.01

Material Name	Area	Volume	Cumulative Volume
Cut	44.98	47.68	328.94

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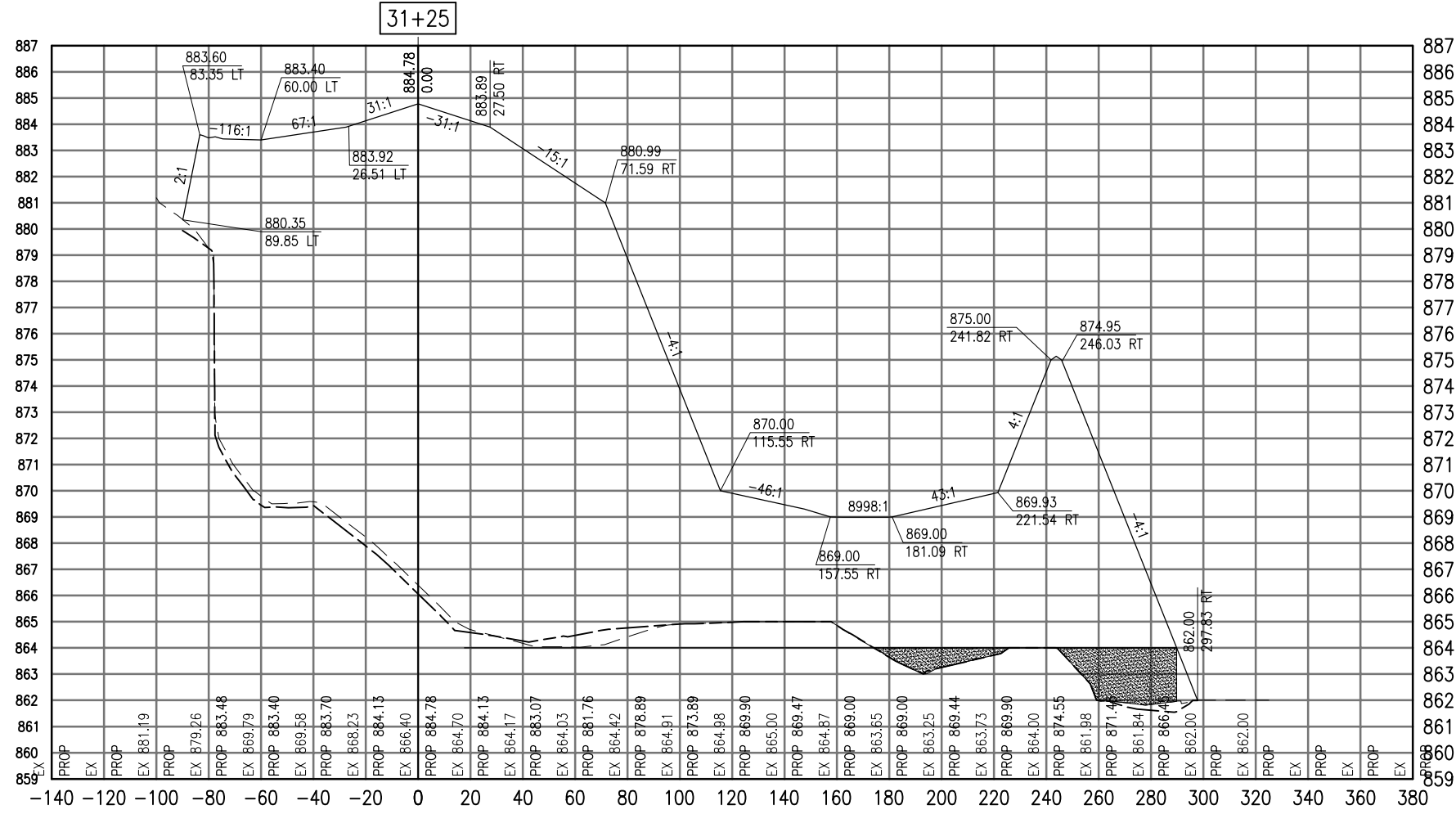


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Total Volume at Station 31+25.00	
Cut Area	0.01
Fill Area	4076.78
Cut Vol	0.00
Fill Vol	3873.79
Cum Cut Vol	141.85
Cum Fill Vol	39010.65
Net Vol	-38868.79

Material(s) at Station 31+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	38.80	38.79	367.73

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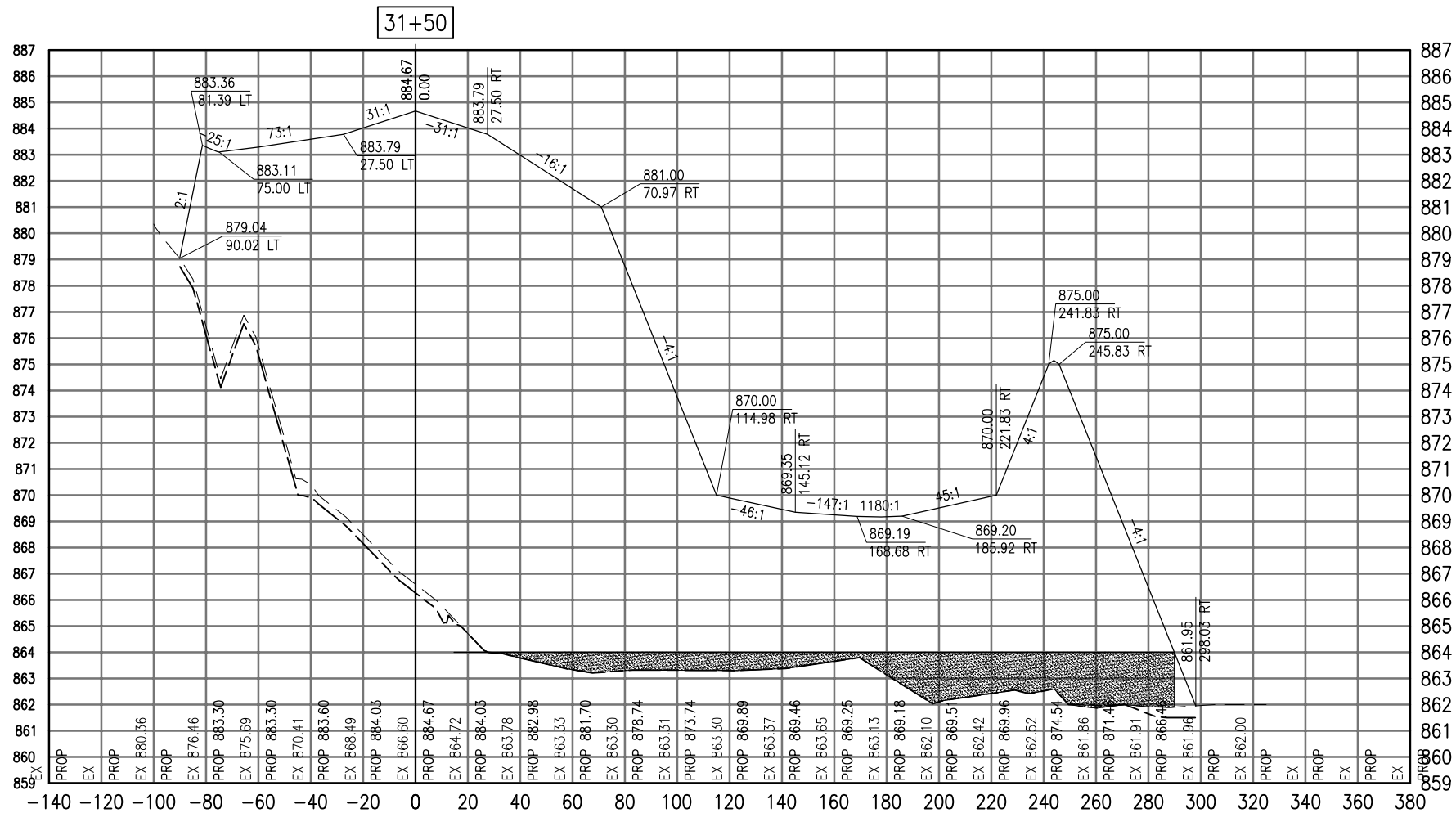


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Total Volume at Station 31+50.00	
Cut Area	0.00
Fill Area	4180.44
Cut Vol	0.00
Fill Vol	1935.39
Cum Cut Vol	0.00
Cum Fill Vol	1935.39
Net Vol	-1935.39

Material(s) at Station 31+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	45.08	20.87	20.87

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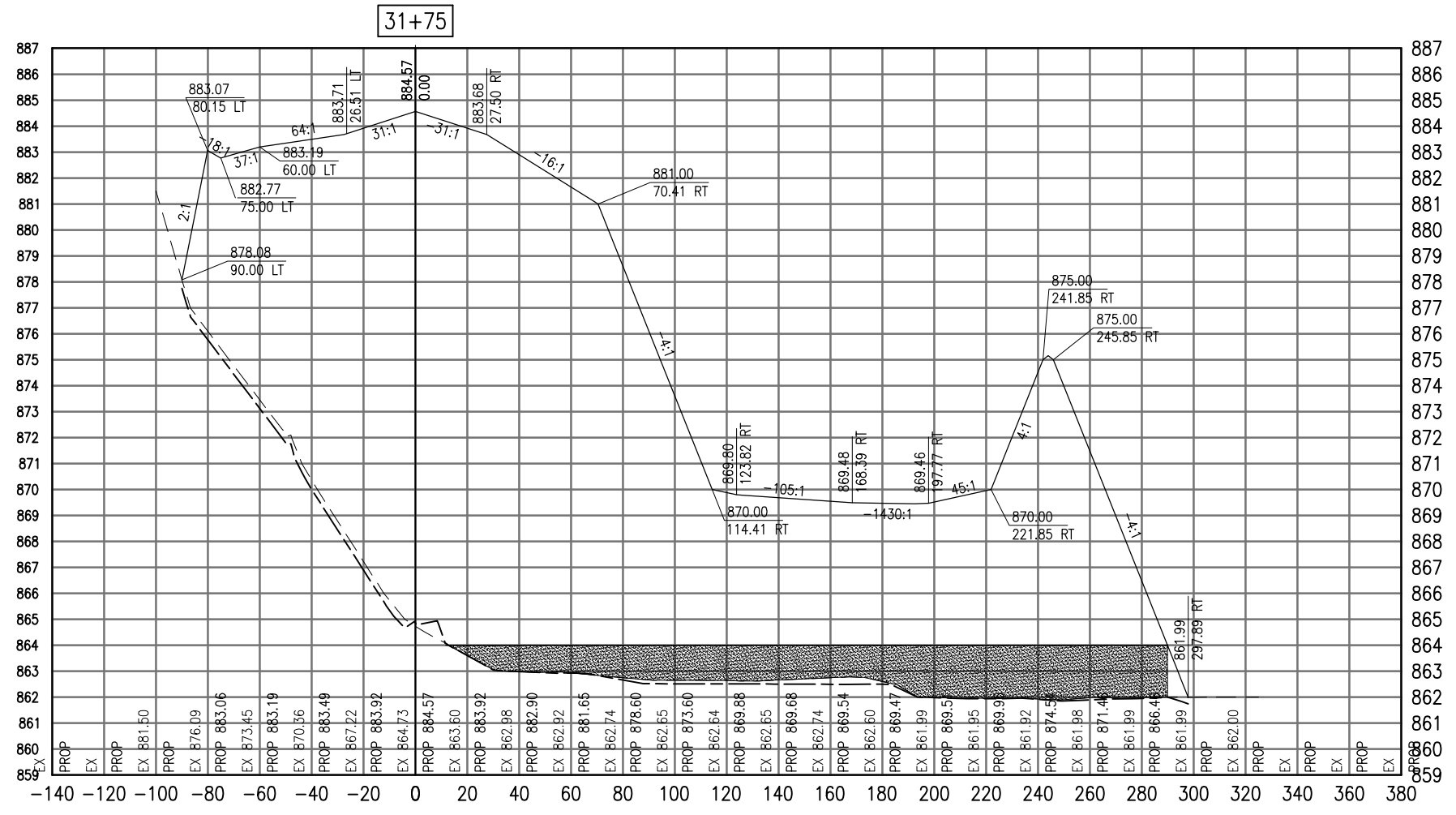
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31+75

Total Volume at Station 31+75.00	
Cut Area	0.00
Fill Area	4417.75
Cut Vol	0.00
Fill Vol	3980.64
Cum Cut Vol	0.00
Cum Fill Vol	5916.03
Net Vol	-5916.03

Material(s) at Station 31+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	52.22	45.05	65.92

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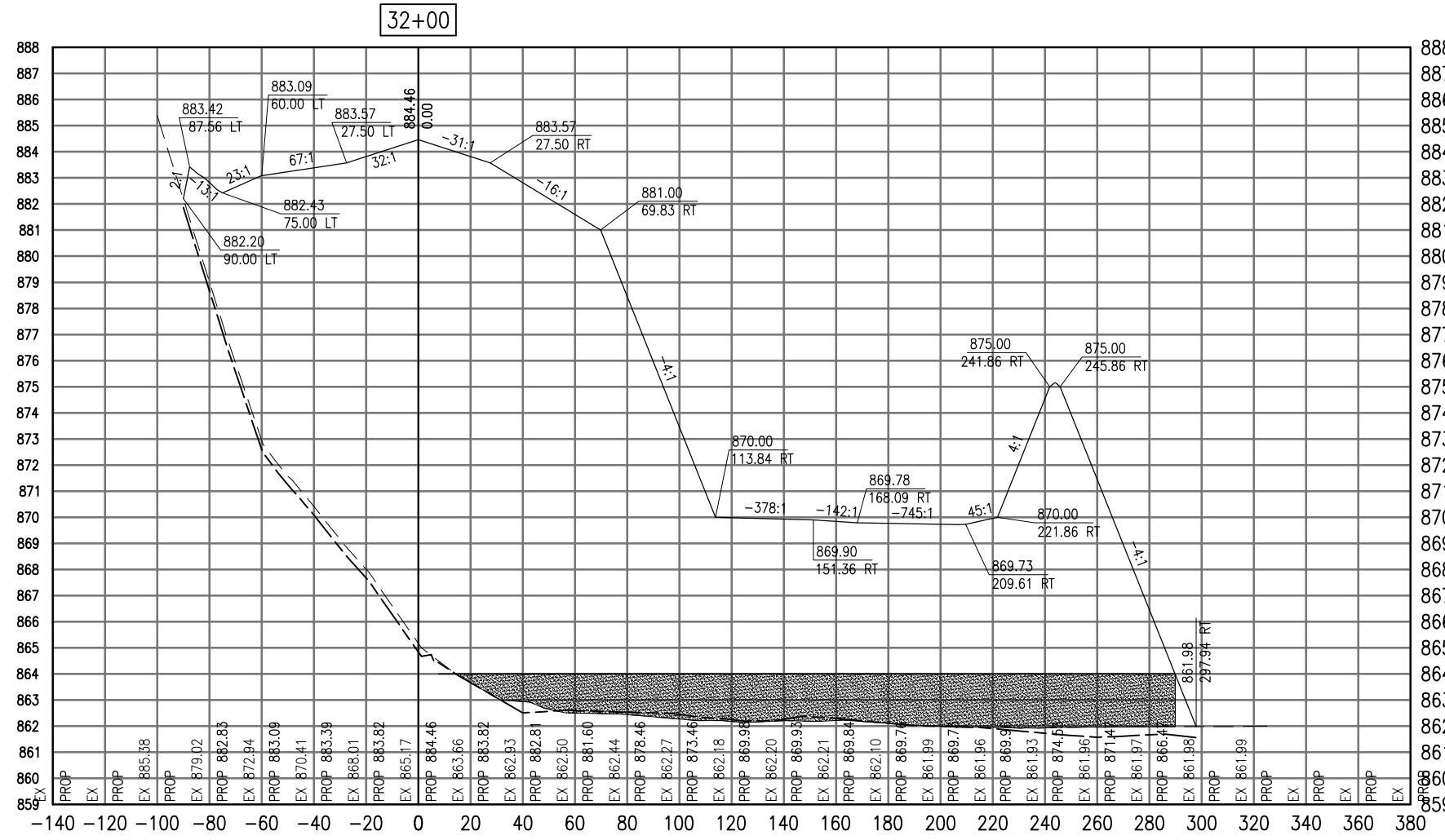


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Total Volume at Station 32+00.00	
Cut Area	0.00
Fill Area	4424.97
Cut Vol	0.00
Fill Vol	4093.85
Cum Cut Vol	0.00
Cum Fill Vol	10009.88
Net Vol	-10009.88

Material(s) at Station 32+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	58.36	51.20	117.11

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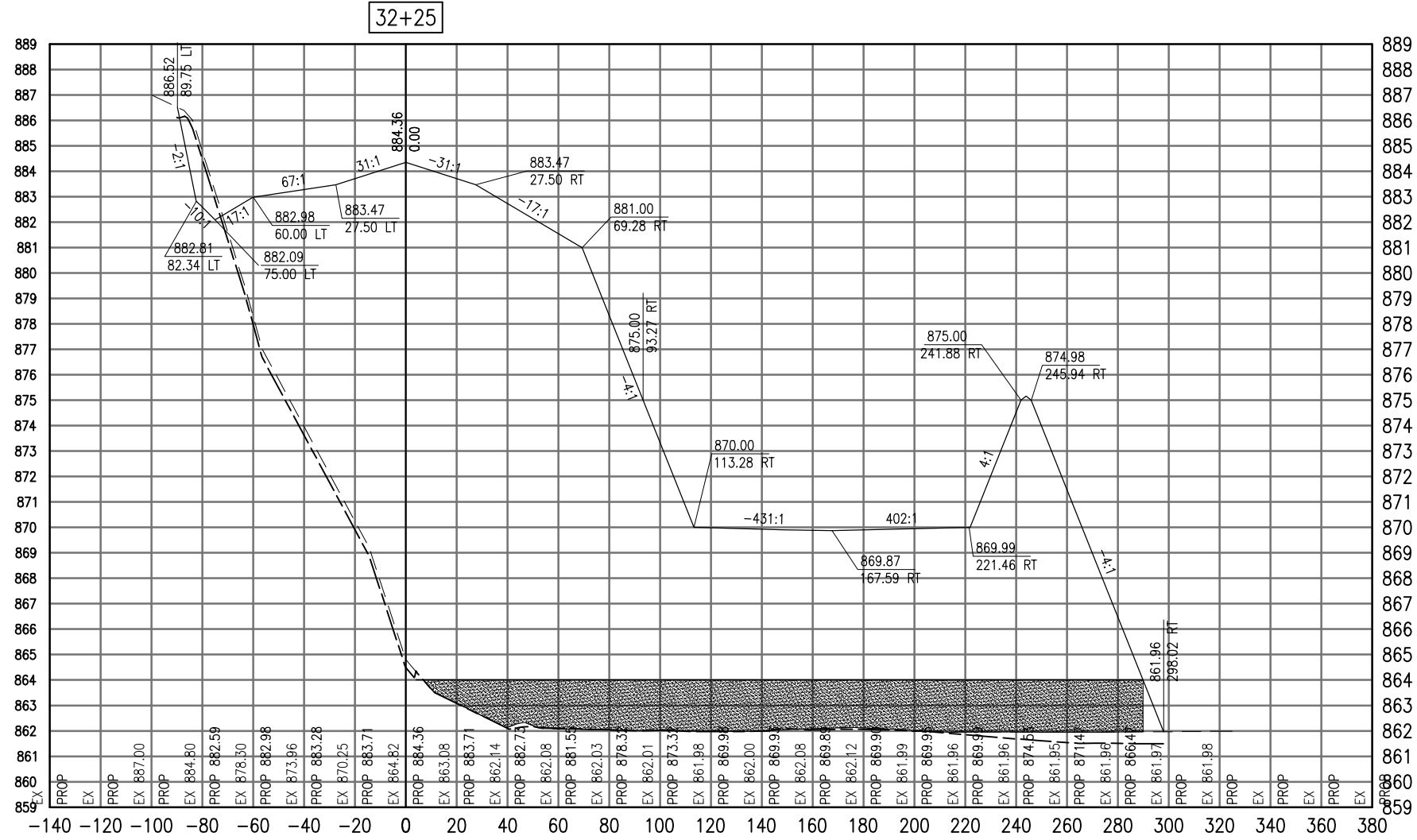


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IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Cut Area	27.16
Fill Area	4176.71
Cut Vol	12.57
Fill Vol	3982.26
Cum Cut Vol	12.57
Cum Fill Vol	13992.14
Net Vol	-13979.57

Material Name	Area	Volume	Cumulative Volume
Cut	62.28	55.85	172.97

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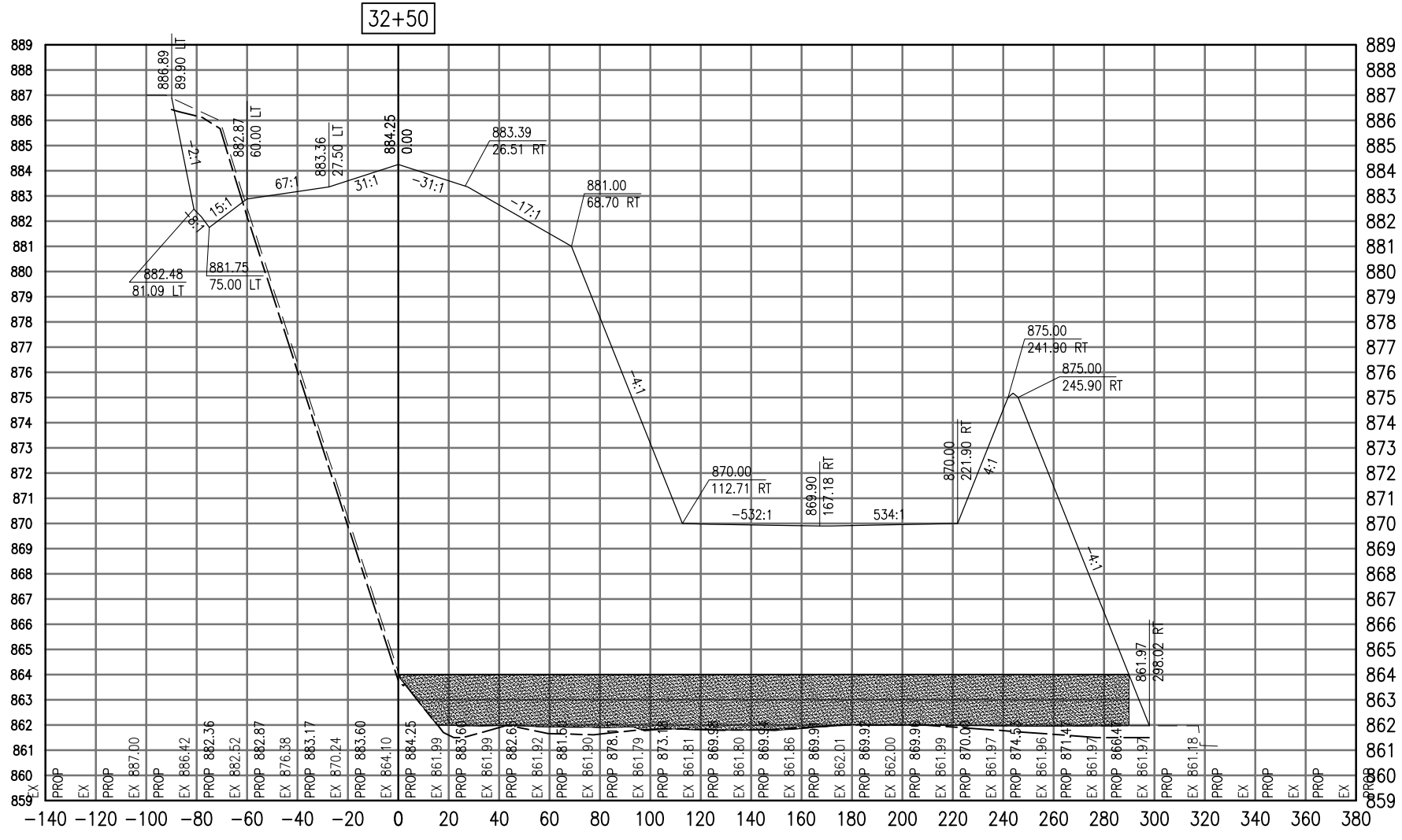
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SEE LEGEND, PAGE 17



Cut Area	80.24
Fill Area	4105.86
Cut Vol	49.72
Fill Vol	3834.52
Cum Cut Vol	62.30
Cum Fill Vol	17826.66
Net Vol	-17764.37

Material Name	Area	Volume	Cumulative Volume
Cut	72.97	62.61	235.58

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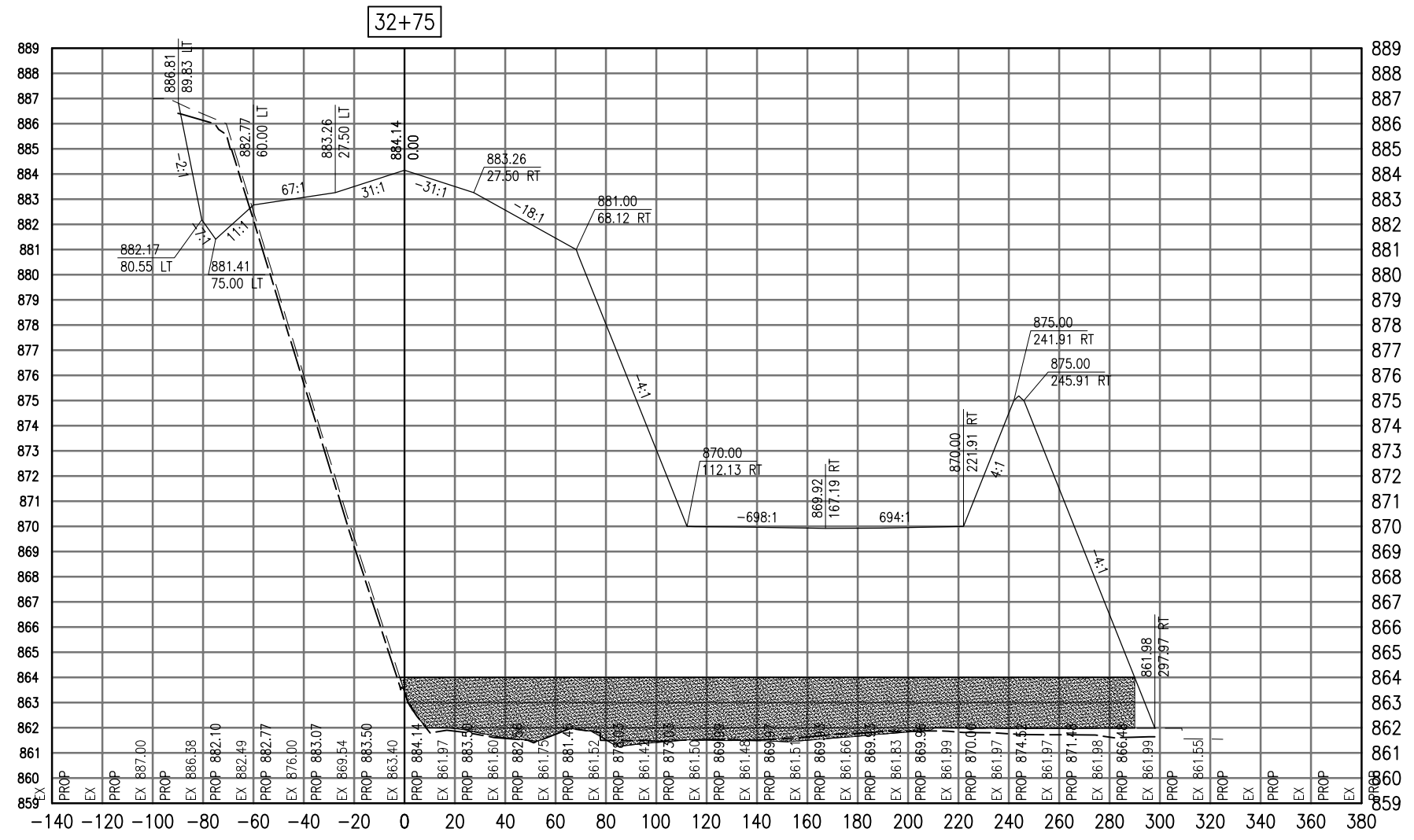


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SEE LEGEND, PAGE 17



Cut Area	84.71
Fill Area	4184.95
Cut Vol	76.37
Fill Vol	3838.34
Cum Cut Vol	138.67
Cum Fill Vol	21665.00
Net Vol	-21526.34

Material Name	Area	Volume	Cumulative Volume
Cut	54.42	58.98	294.56

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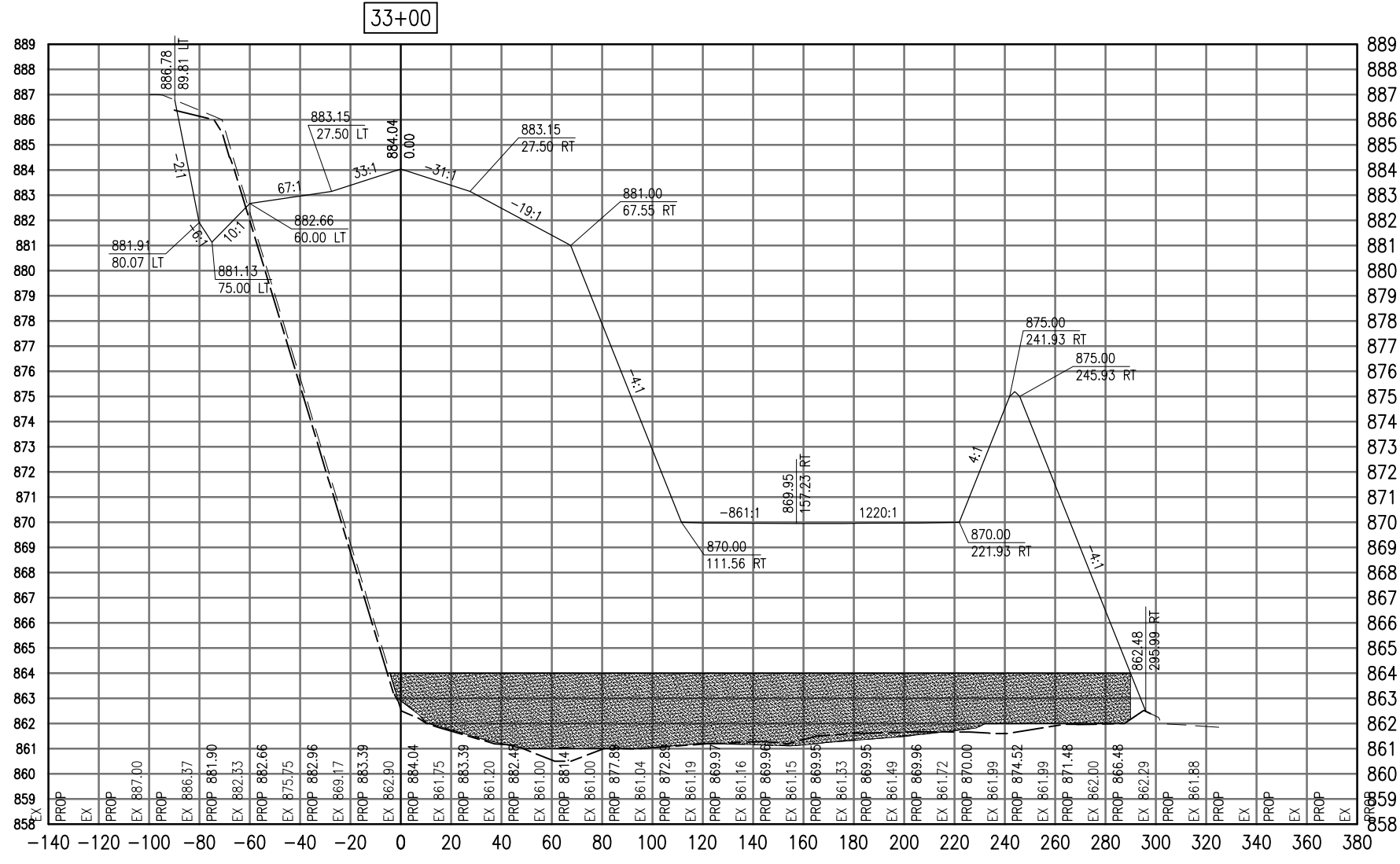


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SEE LEGEND, PAGE 17



Cut Area	87.88
Fill Area	4269.02
Cut Vol	79.90
Fill Vol	3913.88
Cum Cut Vol	218.57
Cum Fill Vol	25578.88
Net Vol	-25360.31

Material Name	Area	Volume	Cumulative Volume
Cut	53.41	49.92	344.48

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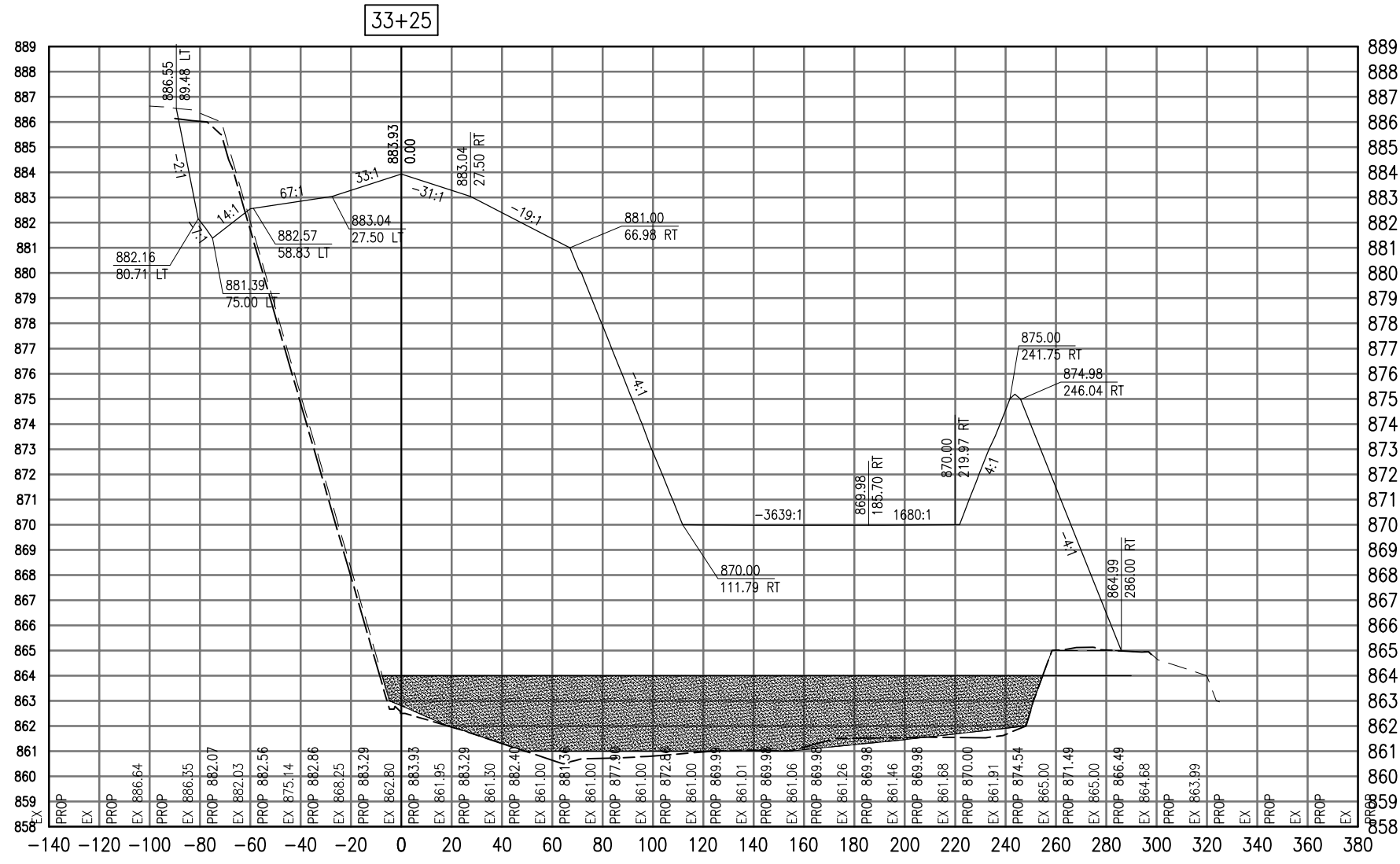


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33+25

Total Volume at Station 33+25.00	
Cut Area	99.97
Fill Area	4195.95
Cut Vol	86.97
Fill Vol	3918.97
Cum Cut Vol	305.54
Cum Fill Vol	29497.85
Net Vol	-29192.31

Material(s) at Station 33+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	56.78	51.01	395.50

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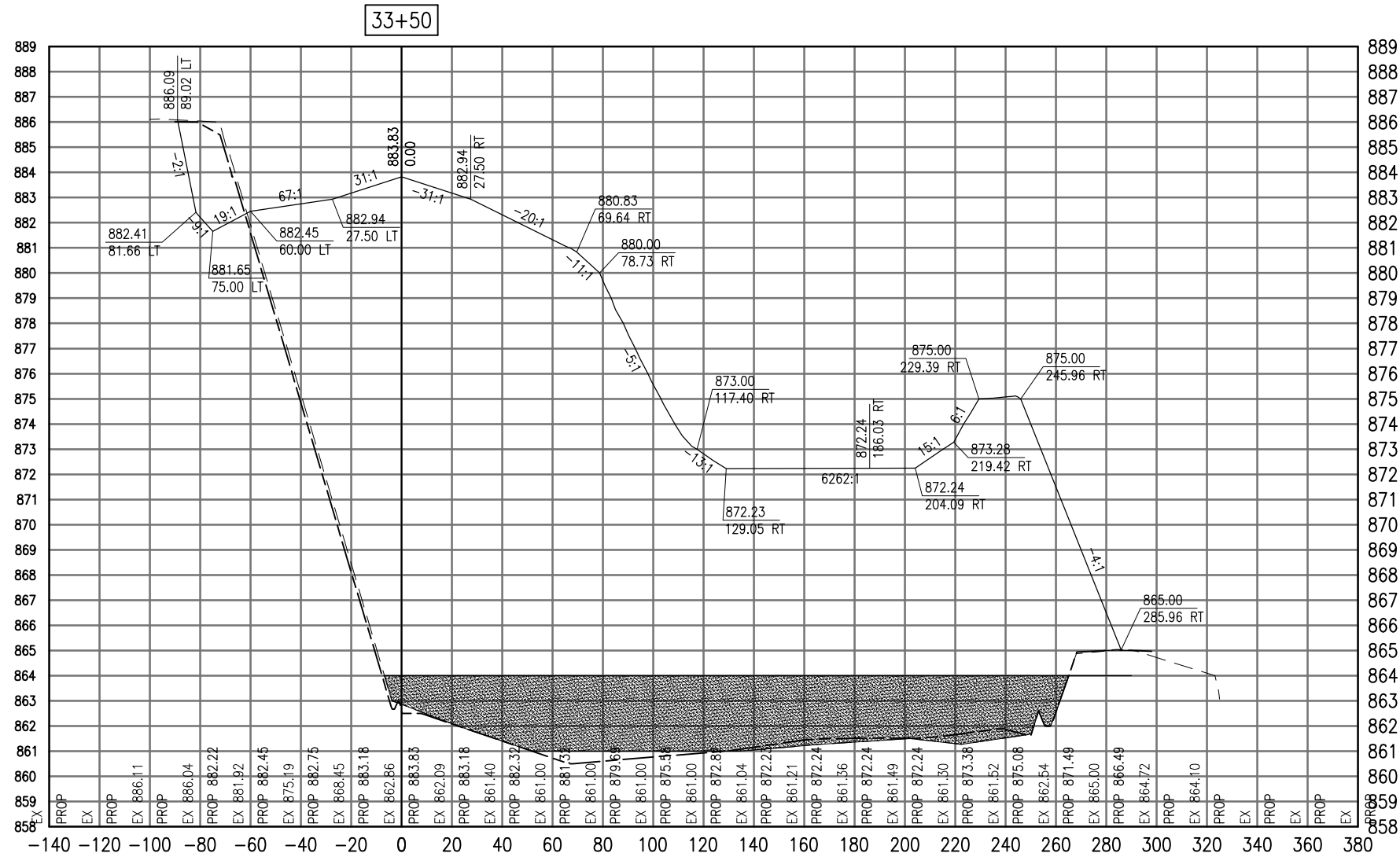


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33+50

Total Volume at Station 33+50.00	
Cut Area	91.79
Fill Area	4610.74
Cut Vol	88.78
Fill Vol	4077.17
Cum Cut Vol	394.31
Cum Fill Vol	33575.02
Net Vol	-33180.71

Material(s) at Station 33+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	48.63	48.80	444.30

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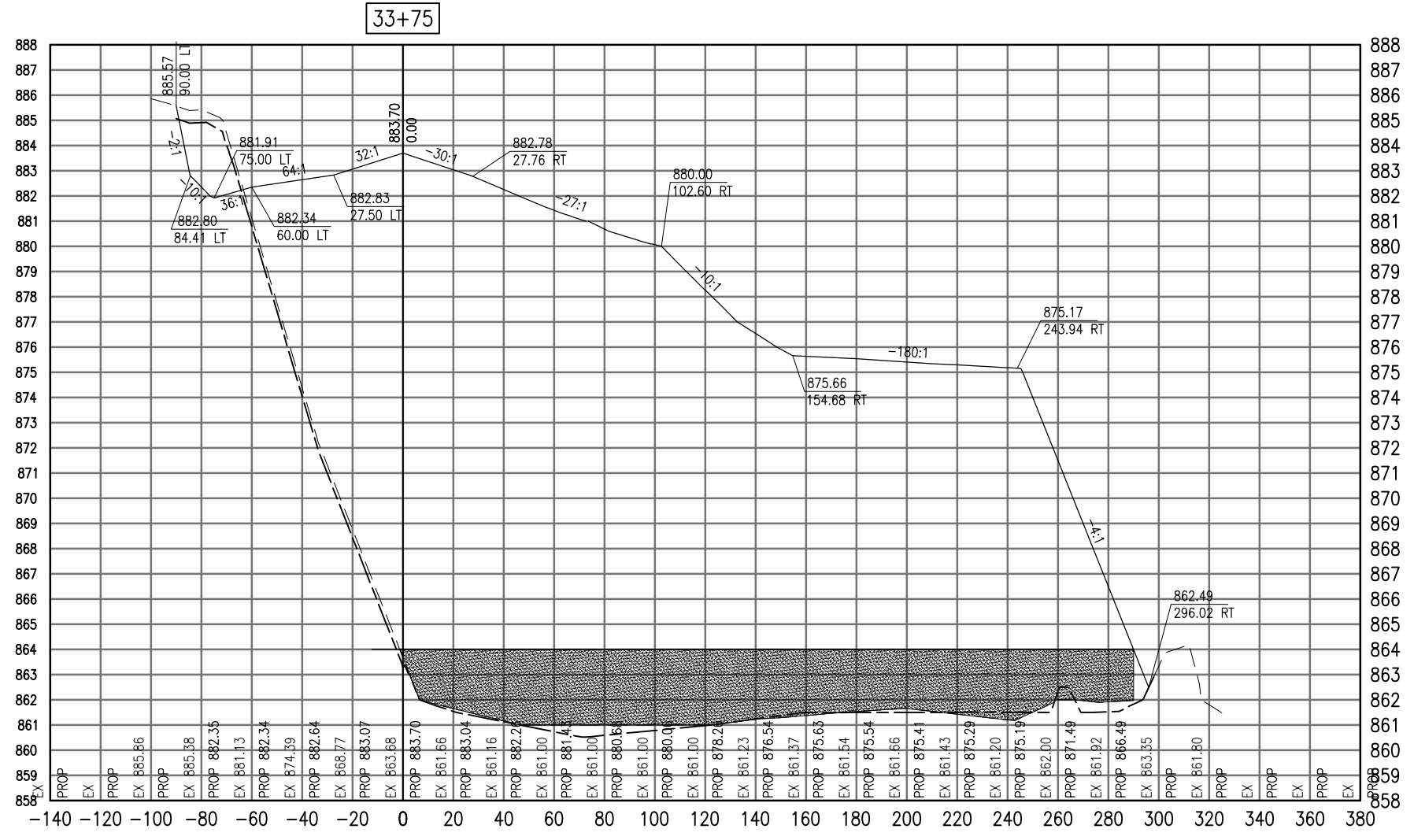
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33+75

Total Volume at Station 33+75.00	
Cut Area	59.85
Fill Area	5227.71
Cut Vol	70.20
Fill Vol	4554.84
Cum Cut Vol	464.52
Cum Fill Vol	38129.86
Net Vol	-37665.35

Material(s) at Station 33+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	67.99	53.99	498.29

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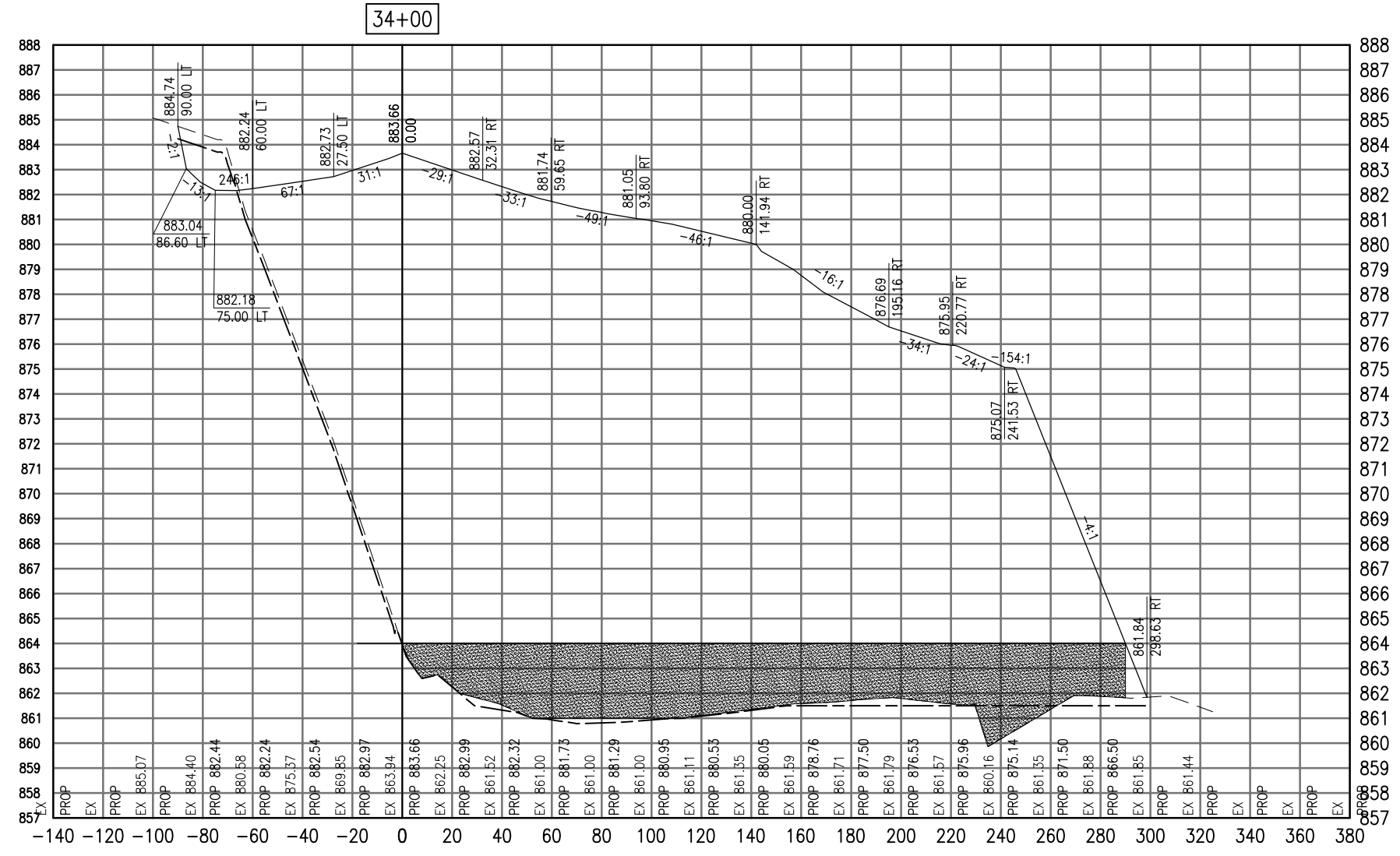


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IDA No. 3CK-3877 AIP No. 3-17-0112-B12

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Total Volume at Station 34+00.00	
Cut Area	70.62
Fill Area	0.00
Cut Vol	32.69
Fill Vol	0.00
Cum Cut Vol	32.69
Cum Fill Vol	0.00
Net Vol	32.69

Material(s) at Station 34+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	70.62	32.69	32.69

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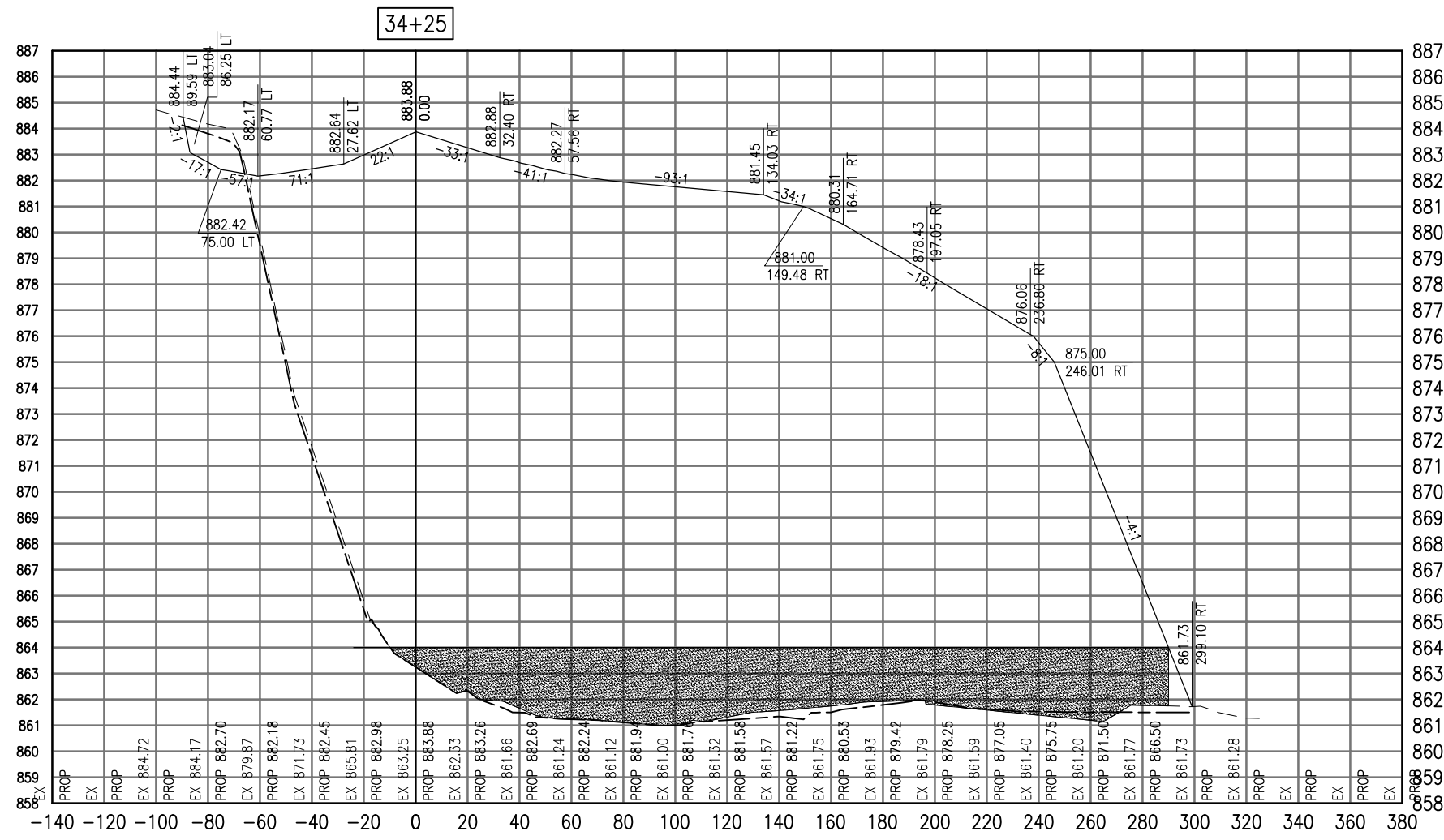


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IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



34+25

Total Volume at Station 34+25.00	
Cut Area	49.86
Fill Area	0.00
Cut Vol	55.78
Fill Vol	0.00
Cum Cut Vol	88.47
Cum Fill Vol	0.00
Net Vol	88.47

Material(s) at Station 34+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	49.86	55.78	88.47

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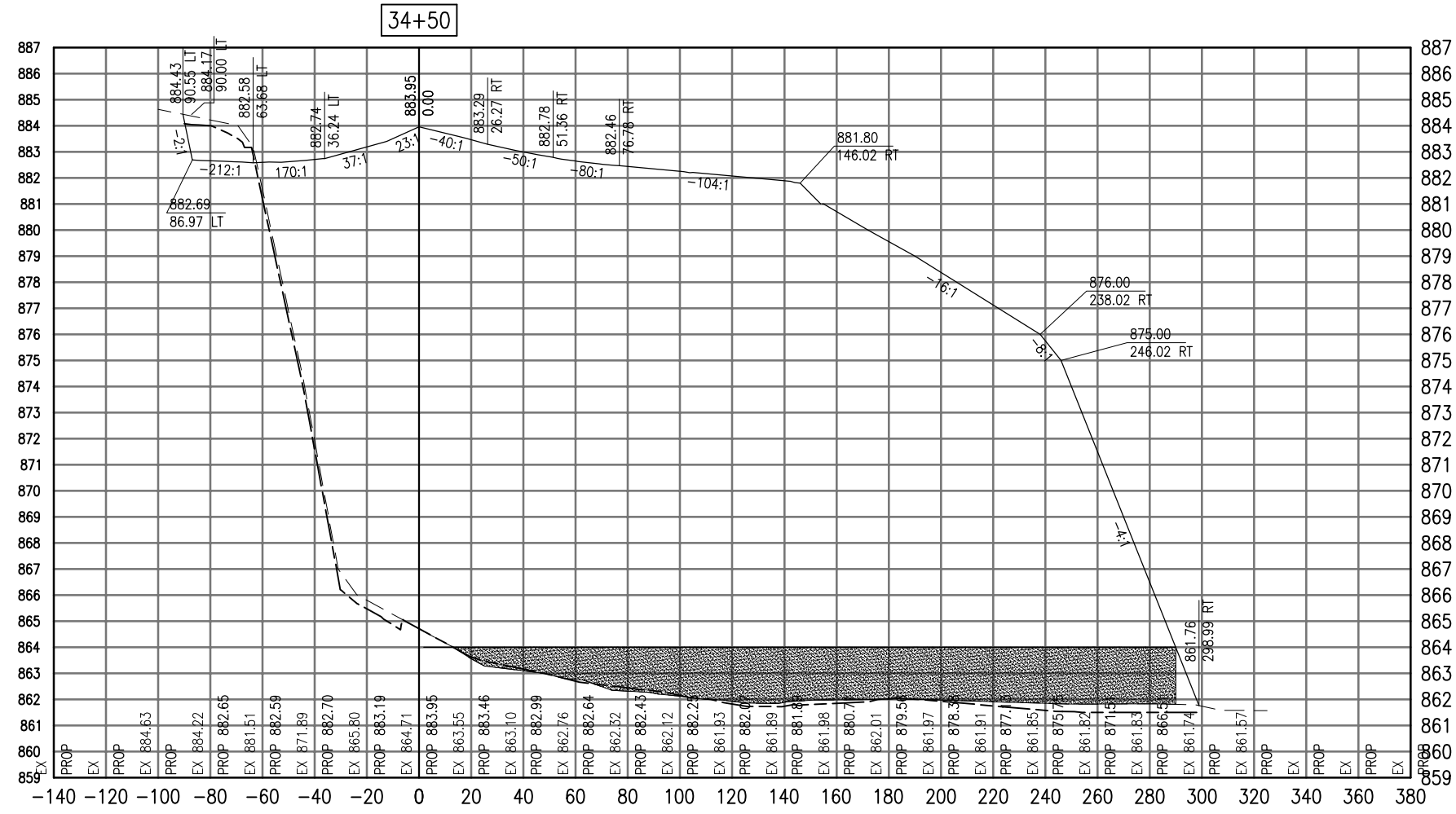


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Cut Area	61.97
Fill Area	0.00
Cut Vol	51.77
Fill Vol	0.00
Cum Cut Vol	140.24
Cum Fill Vol	0.00
Net Vol	140.24

Material Name	Area	Volume	Cumulative Volume
Cut	61.97	51.77	140.24

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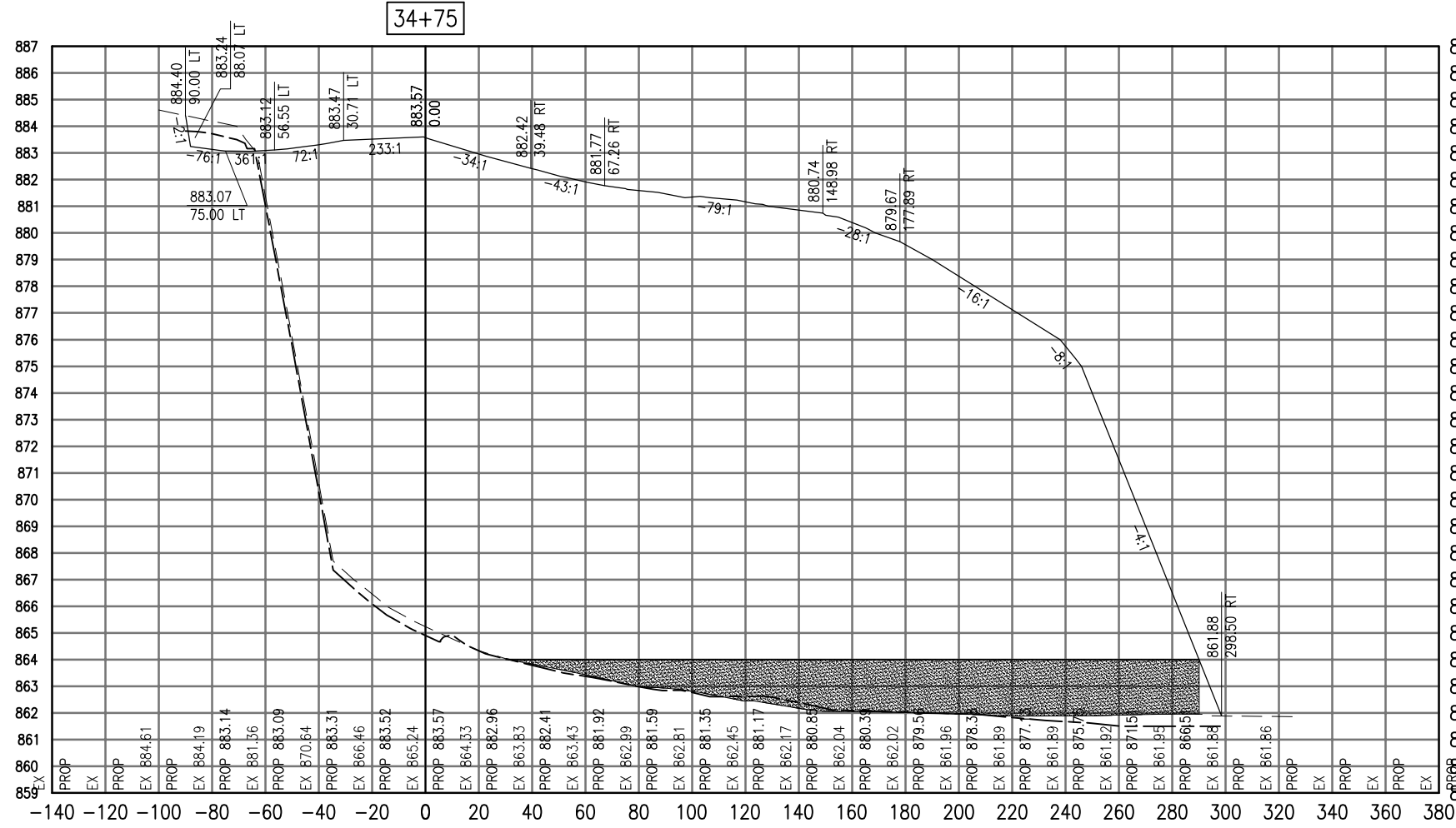


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SEE LEGEND, PAGE 17



Total Volume at Station 34+75.00	
Cut Area	64.53
Fill Area	0.00
Cut Vol	58.57
Fill Vol	0.00
Cum Cut Vol	198.81
Cum Fill Vol	0.00
Net Vol	198.81

Material(s) at Station 34+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	64.53	58.57	198.81

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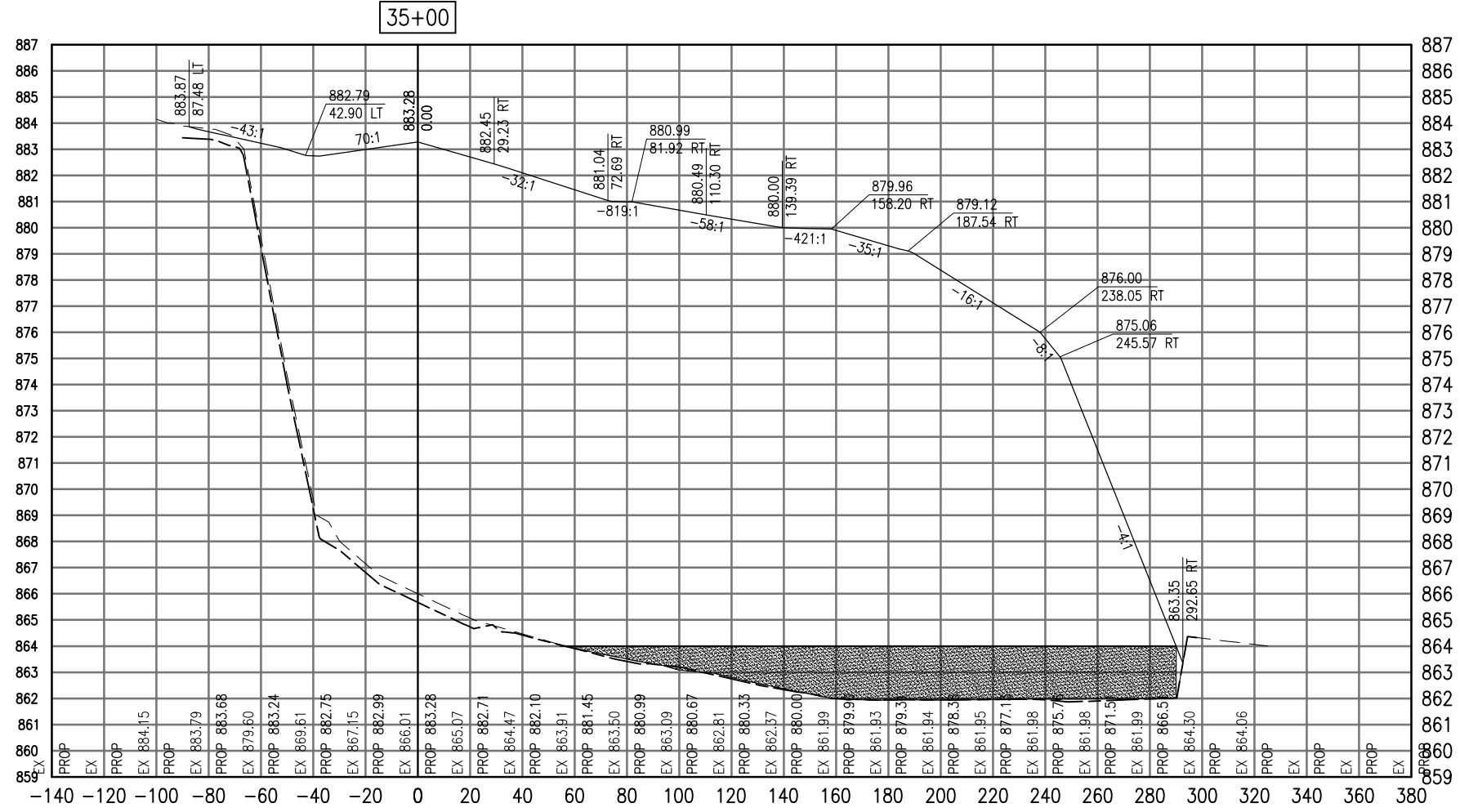


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Total Volume at Station 35+00.00	
Cut Area	50.17
Fill Area	0.00
Cut Vol	53.10
Fill Vol	0.00
Cum Cut Vol	251.91
Cum Fill Vol	0.00
Net Vol	251.91

Material(s) at Station 35+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	50.17	53.10	251.91

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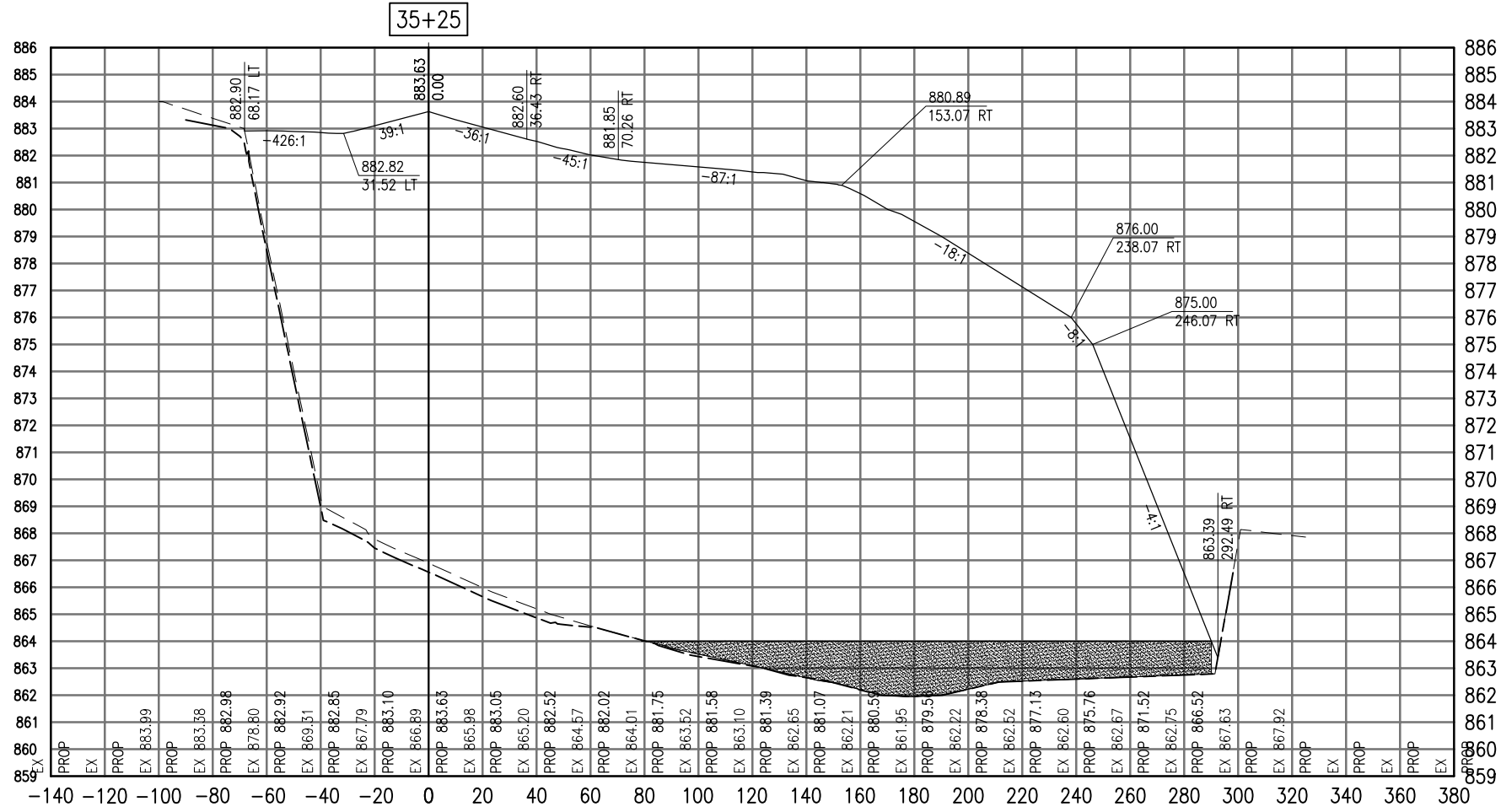


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Cut Area	51.62
Fill Area	0.00
Cut Vol	47.12
Fill Vol	0.00
Cum Cut Vol	299.03
Cum Fill Vol	0.00
Net Vol	299.03

Material Name	Area	Volume	Cumulative Volume
Cut	51.62	47.12	299.03

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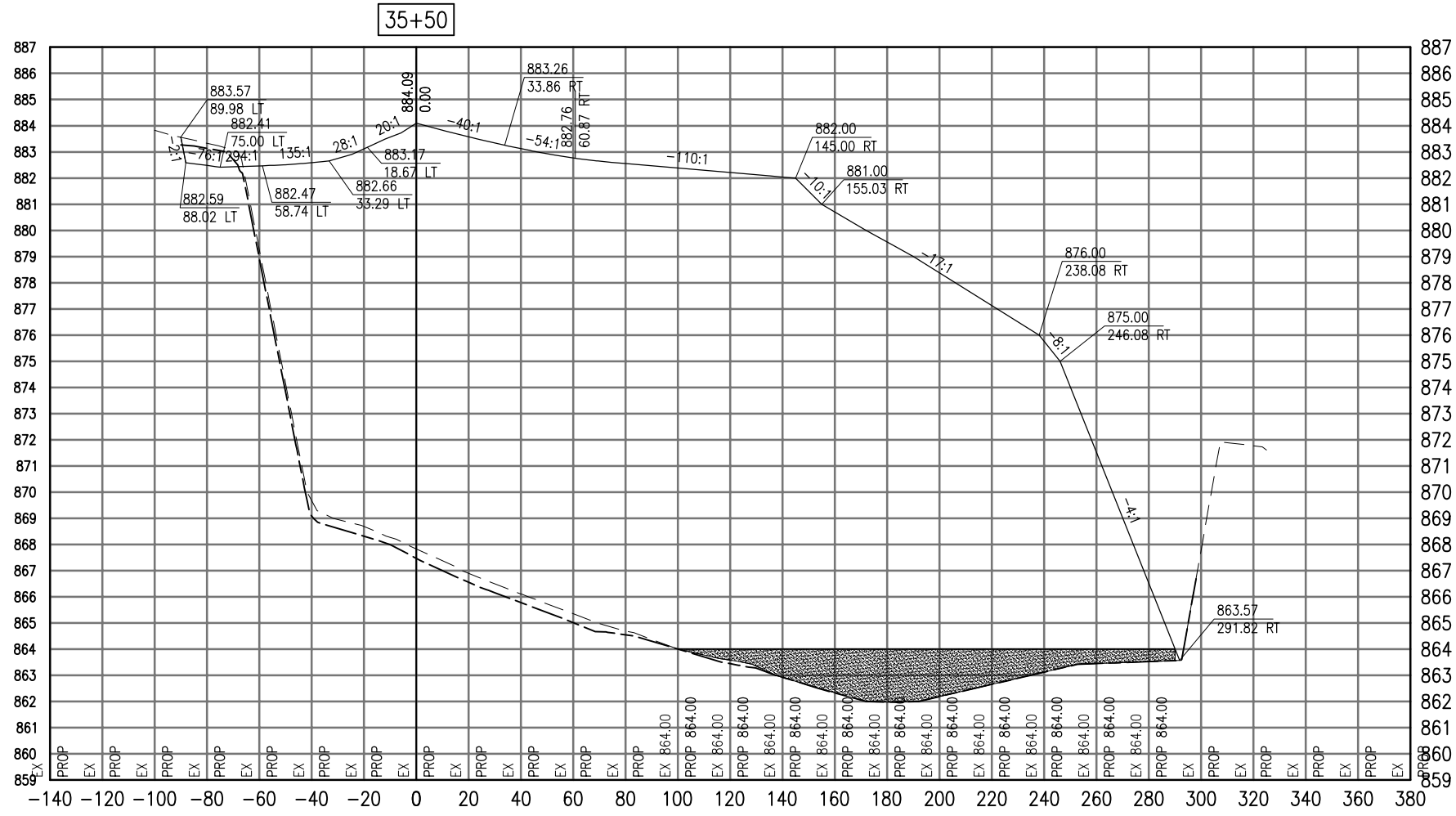


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Total Volume at Station 35+50.00	
Cut Area	122.00
Fill Area	122.00
Cut Vol	122.00
Fill Vol	122.00
Cum Cut Vol	122.00
Cum Fill Vol	122.00
Net Vol	0.00

Material(s) at Station 35+50.00			
Material Name	Area	Volume	Conjunctive Volume
PROP 864.00	122.00	122.00	0.00
EX 864.00	0.00	0.00	0.00

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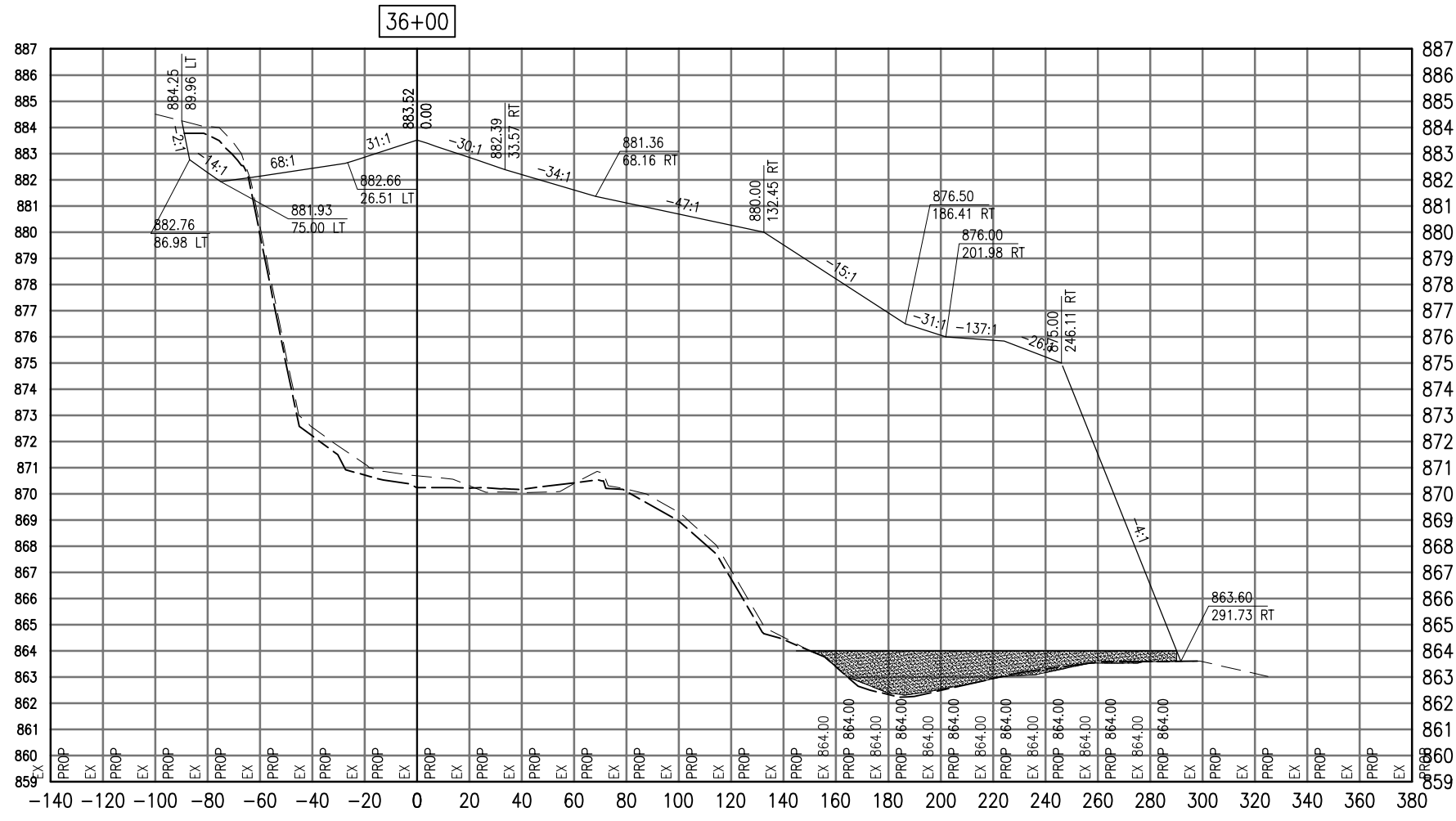
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Cut Area	11.00
Fill Area	100.00
Cut Vol	200.00
Fill Vol	100.00
Cum Cut Vol	200.00
Cum Fill Vol	100.00
Net Vol	100.00

Material Name	Area	Volume	Cumulative Volume

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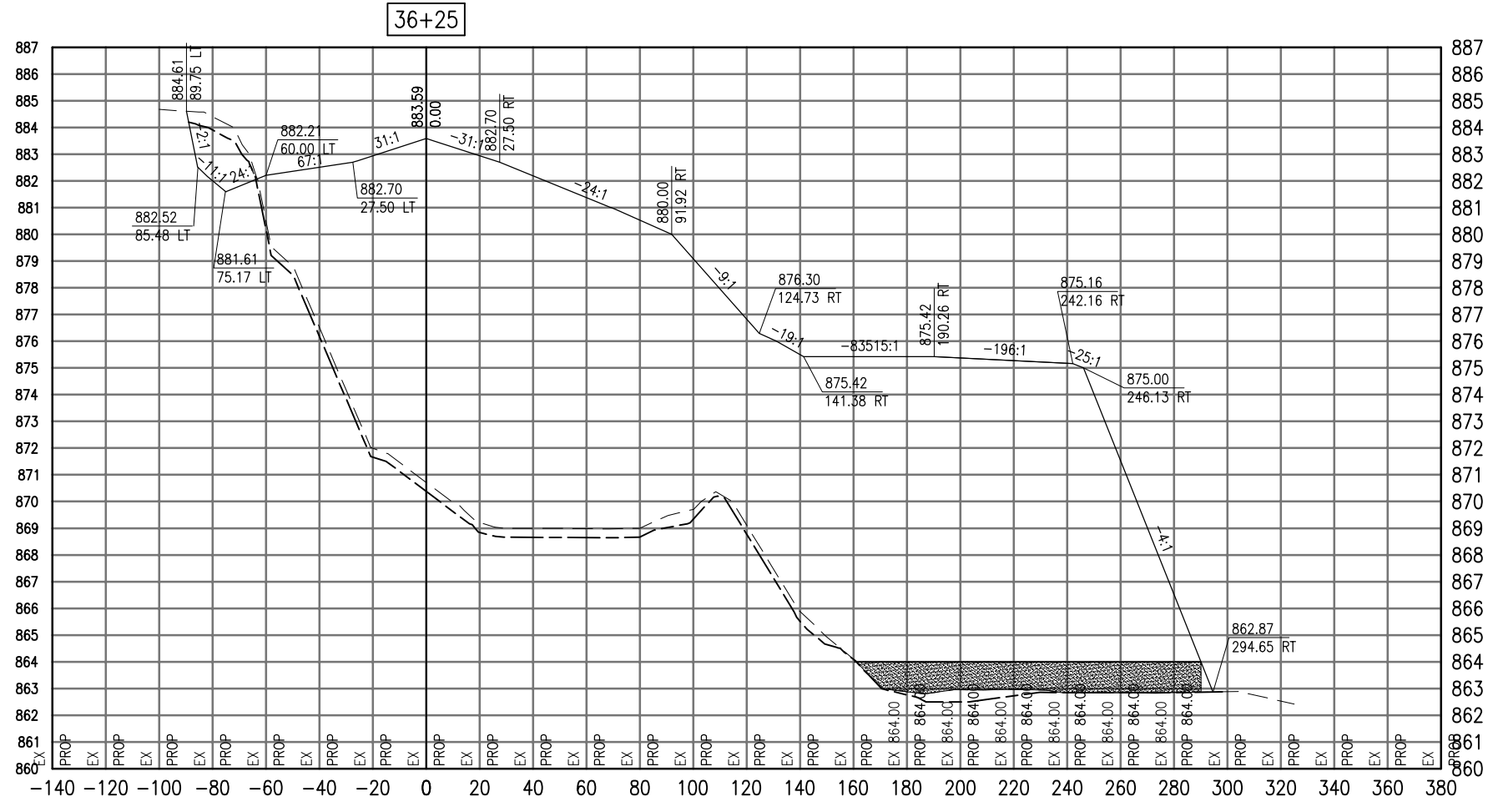


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Cut Area	1452.00
Fill Area	1452.00
Cut Vol	1452.00
Fill Vol	1452.00
Cum Cut Vol	1452.00
Cum Fill Vol	1452.00
Net Vol	0.00

Material Name	Area	Volume	Cumulative Volume

DATE	REVISION

**VILLAGE OF LAKE IN THE HILLS**  
 600 Harvest Gate  
 Lake in the Hills, Illinois 60156 Telephone: 847.960.7410  
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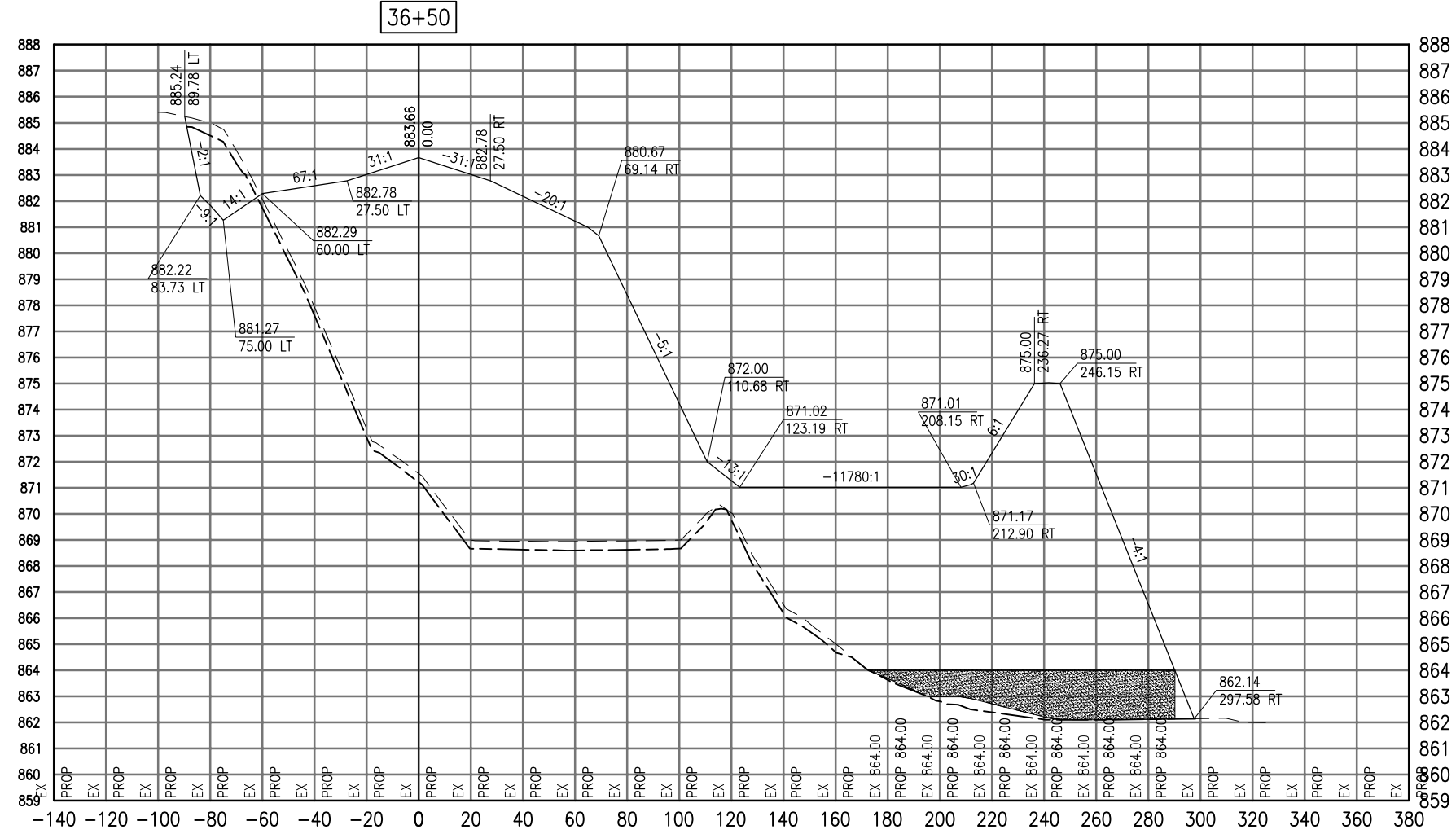


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Date	AUGUST 14, 2009
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**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Cut Area	112.00
Fill Area	112.00
Cut Vol	112.00
Fill Vol	112.00
Cum Cut Vol	112.00
Cum Fill Vol	112.00
Net Vol	0.00

Material Name	Area	Volume	Cumulative Volume
Proposed Material	112.00	112.00	112.00

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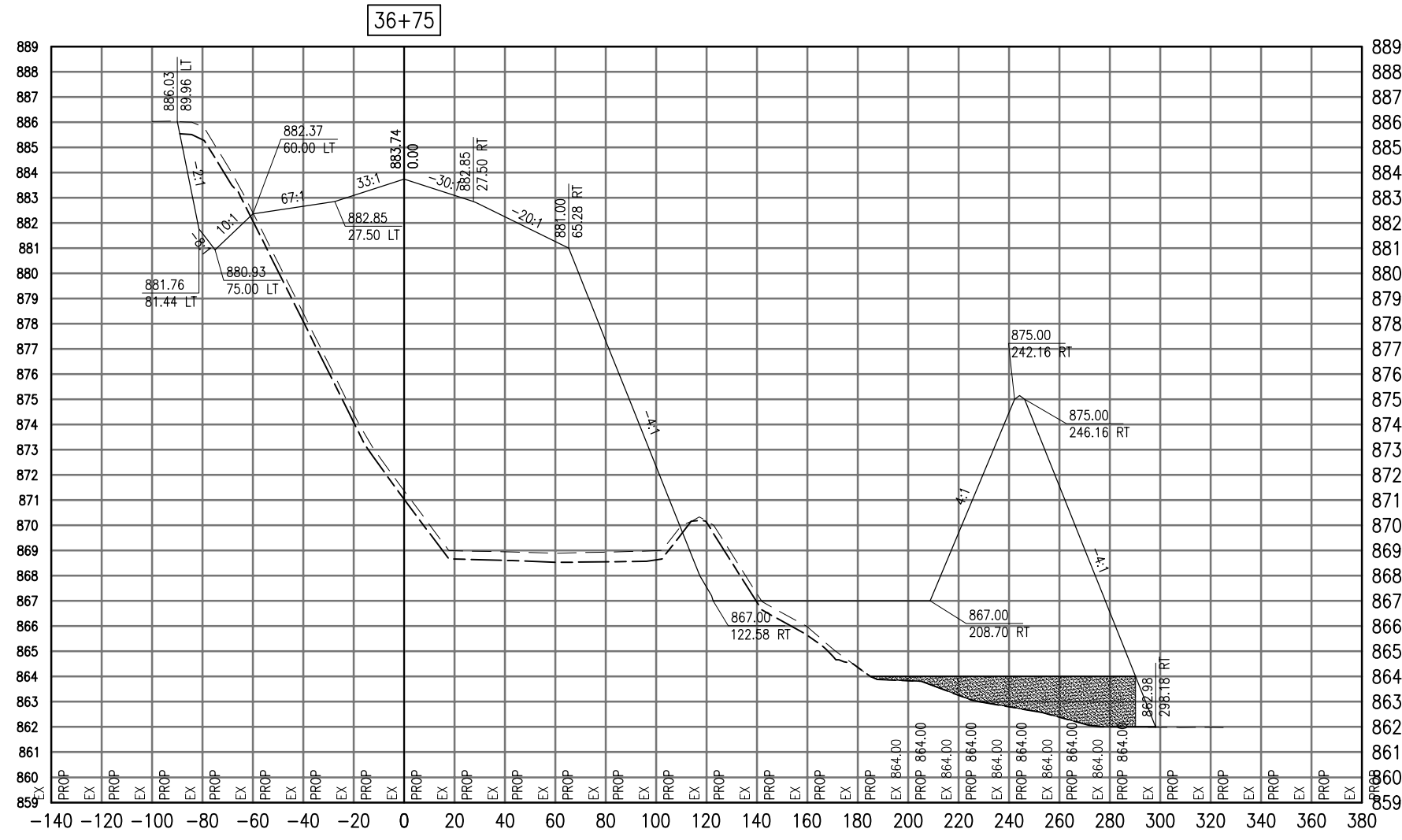


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SEE LEGEND, PAGE 17



Total Volume at Station 36+75.00	
Cut Area	1000.00
Fill Area	1000.00
Cut Vol	1000.00
Fill Vol	1000.00
Cur Cut Vol	1000.00
Cur Fill Vol	1000.00
Net Vol	0.00

Material at Station 36+75.00			
Material Name	Area	Volume	Cumulative Volume
EX 864.00			
PROP 864.00			

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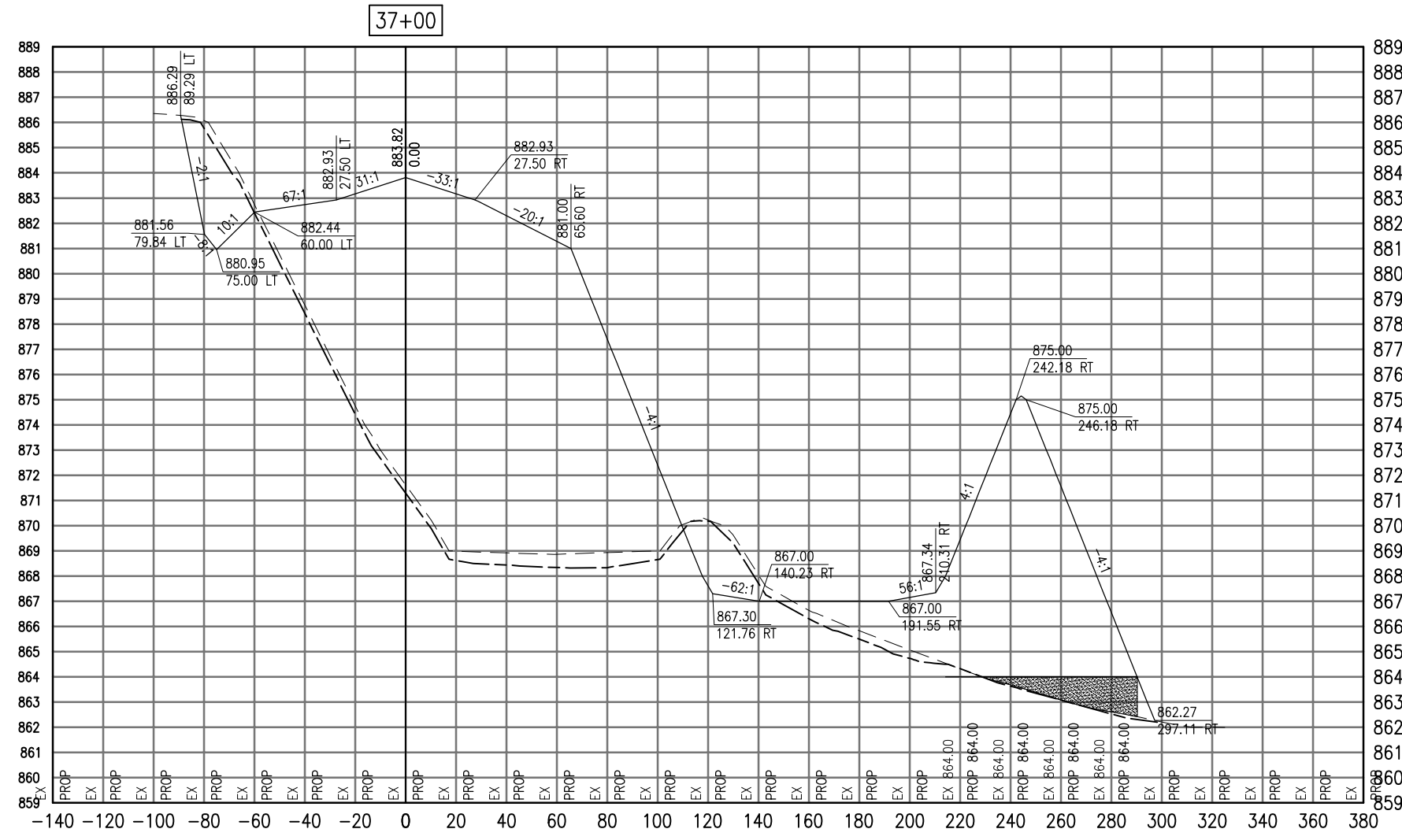


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Total Volume at Station 37+00.00	
Cut Area	121.76
Fill Area	0.00
Cut Vol	121.76
Fill Vol	0.00
Cum Cut Vol	121.76
Cum Fill Vol	0.00
Net Vol	121.76

Material(s) at Station 37+00.00			
Material Name	Area	Volume	Cumulative Volume

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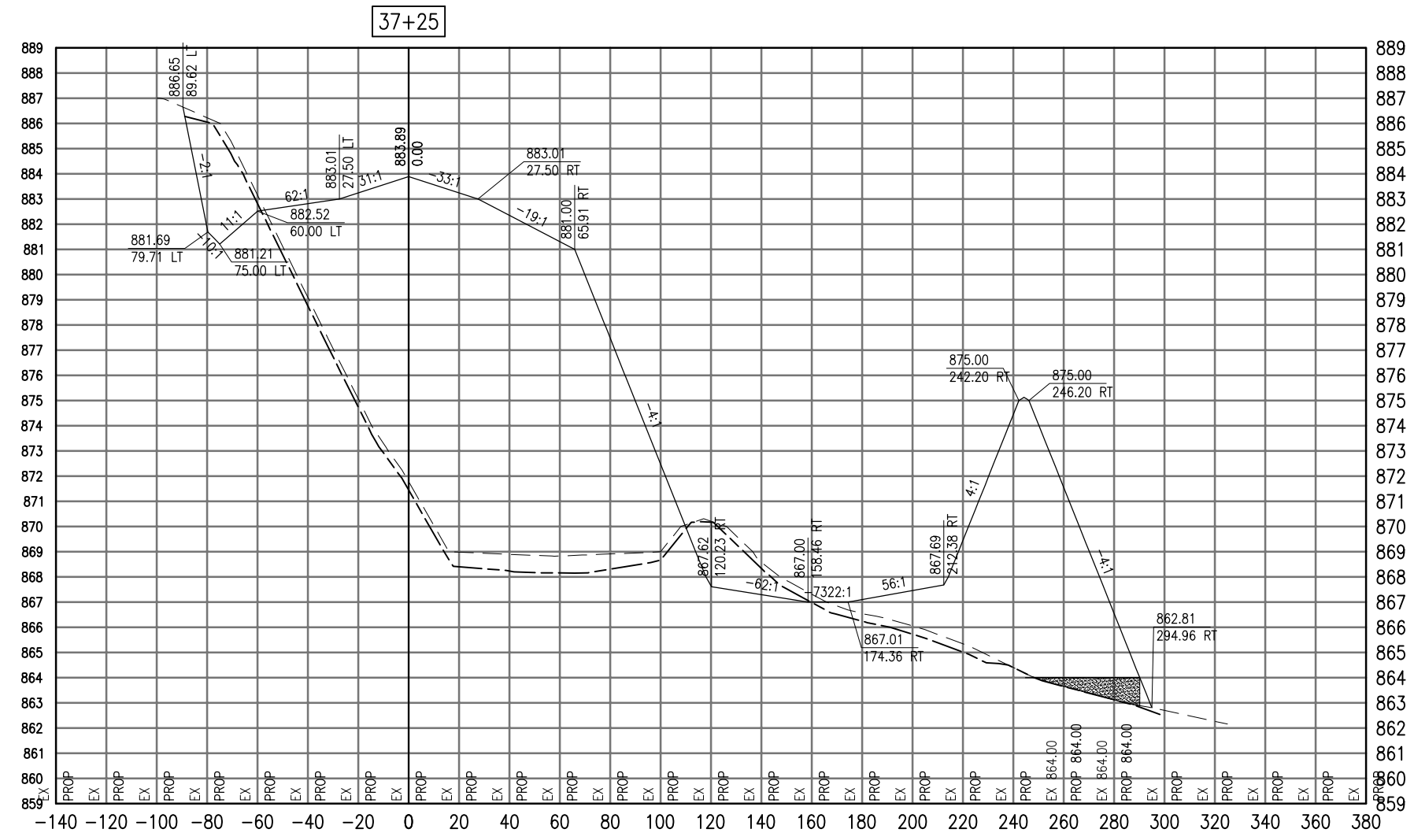


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IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Cut Area	
Fill Area	
Cut Vol	
Fill Vol	
Cum Cut Vol	
Cum Fill Vol	
Net Vol	

Material Name	Area	Volume	Cumulative Volume

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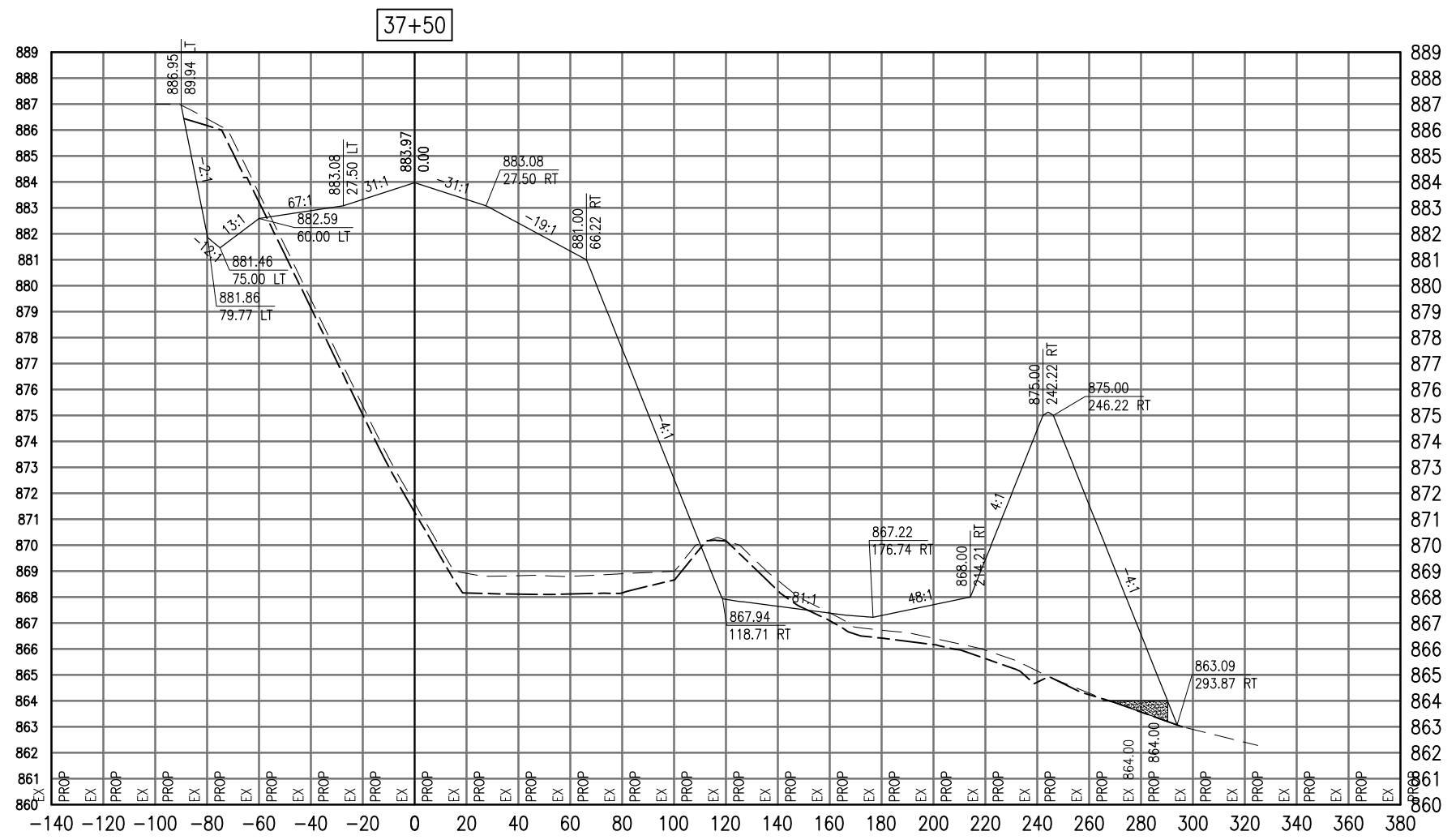


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SEE LEGEND, PAGE 17



Total Volume at Station 37+50.00	
Cut Area	118.71
Fill Area	118.71
Cut Vol	118.71
Fill Vol	118.71
Cum Cut Vol	118.71
Cum Fill Vol	118.71
Net Vol	0.00

Material(s) at Station 37+50.00			
Material Name	Area	Volume	Cumulative Volume

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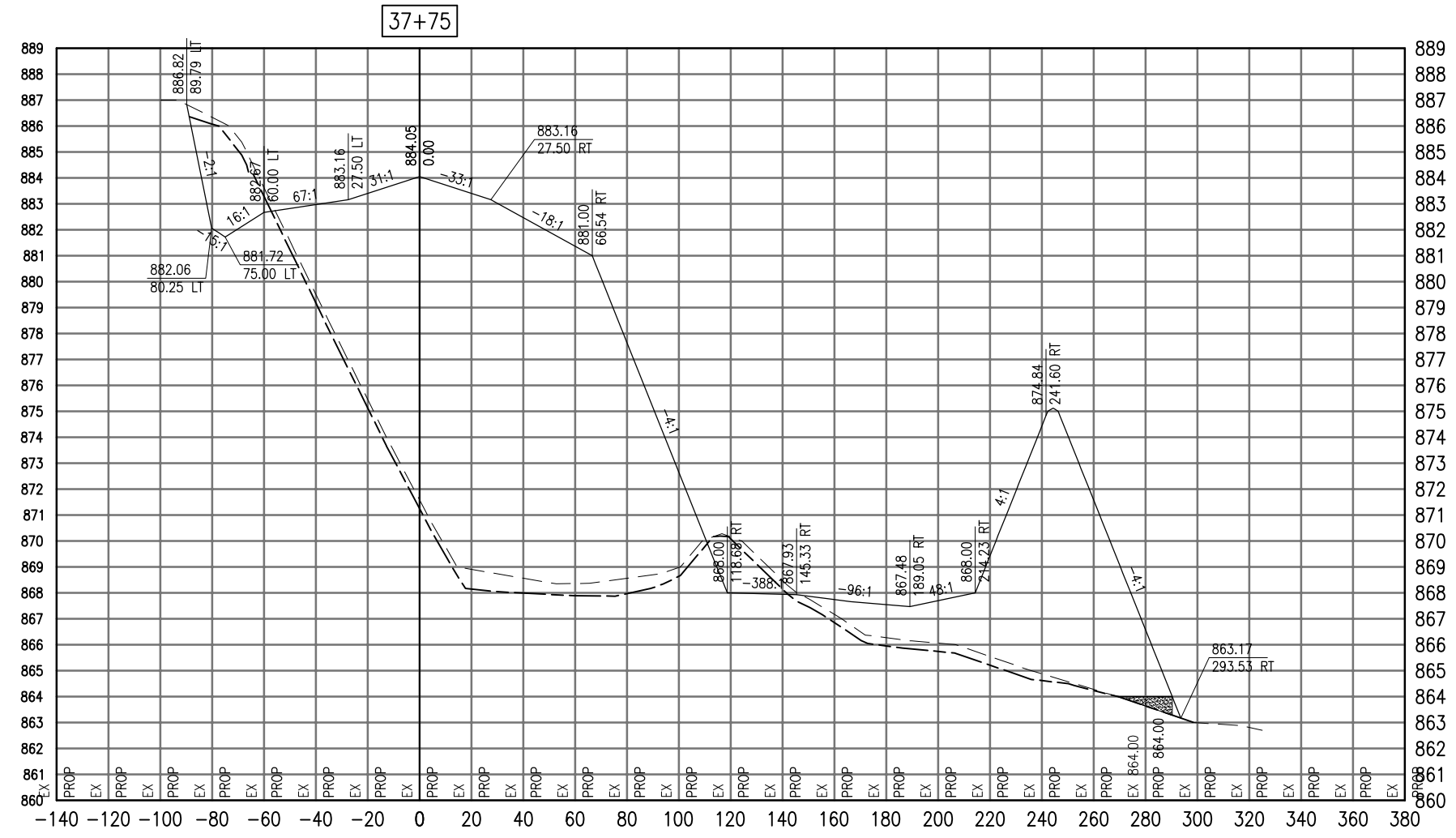
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Item	Volume
Cut Area	1116.68
Fill Area	1116.68
Cut Vol	1116.68
Fill Vol	1116.68
Cum Cut Vol	1116.68
Cum Fill Vol	1116.68
Net Vol	0.00

Material Name	Area	Volume	Cumulative Volume
Subgrade	1116.68	1116.68	1116.68

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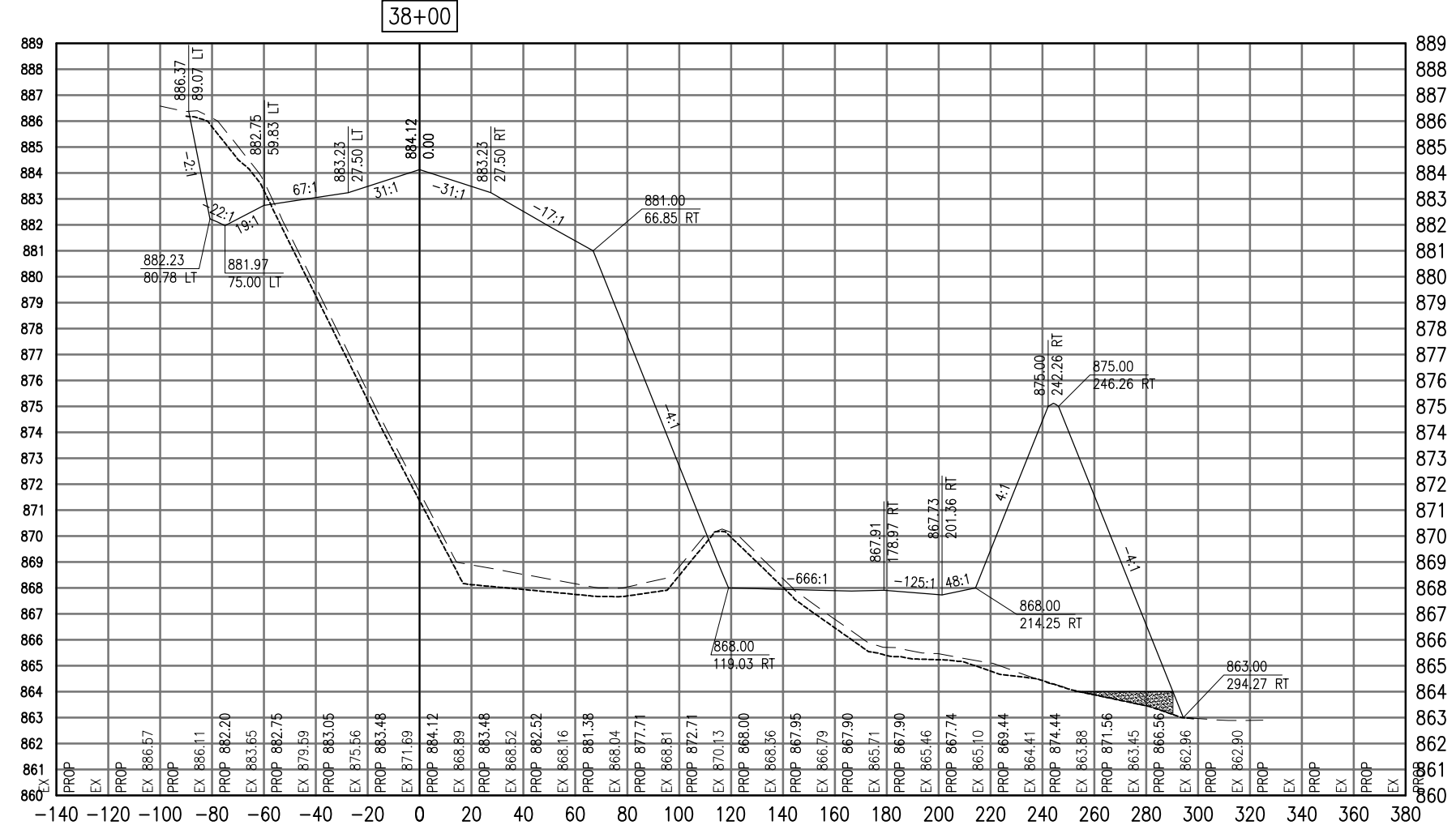


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38+00

Total Volume at Station 38+00.00	
Cut Area	117.29
Fill Area	2191.62
Cut Vol	54.30
Fill Vol	1014.64
Cum Cut Vol	54.30
Cum Fill Vol	1014.64
Net Vol	-960.34

Material(s) at Station 38+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	115.08	53.28	53.28

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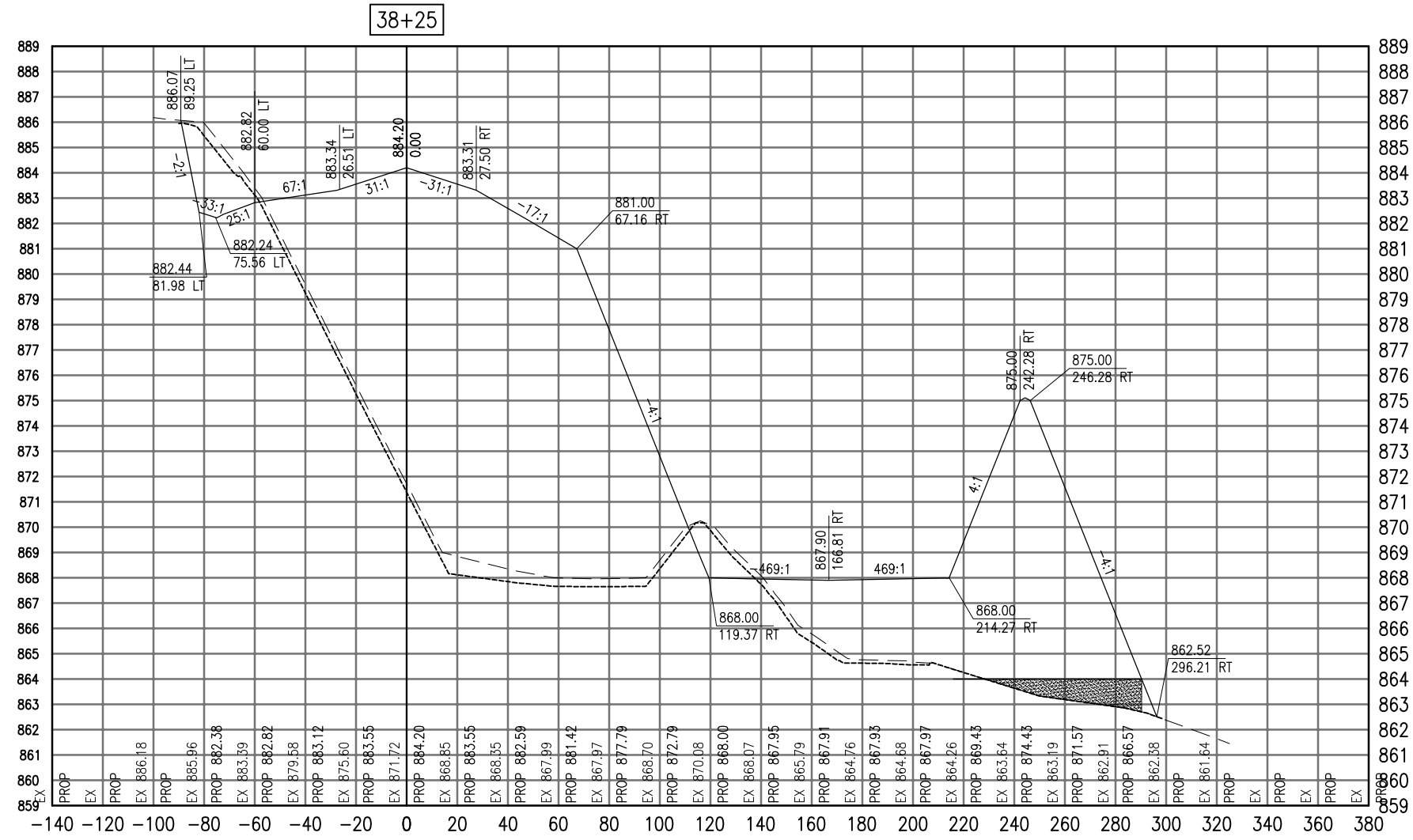


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Total Volume at Station 38+25.00	
Cut Area	99.04
Fill Area	2335.68
Cut Vol	100.15
Fill Vol	2095.97
Cum Cut Vol	154.46
Cum Fill Vol	3110.61
Net Vol	-2956.15

Material(s) at Station 38+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	98.41	98.84	152.12

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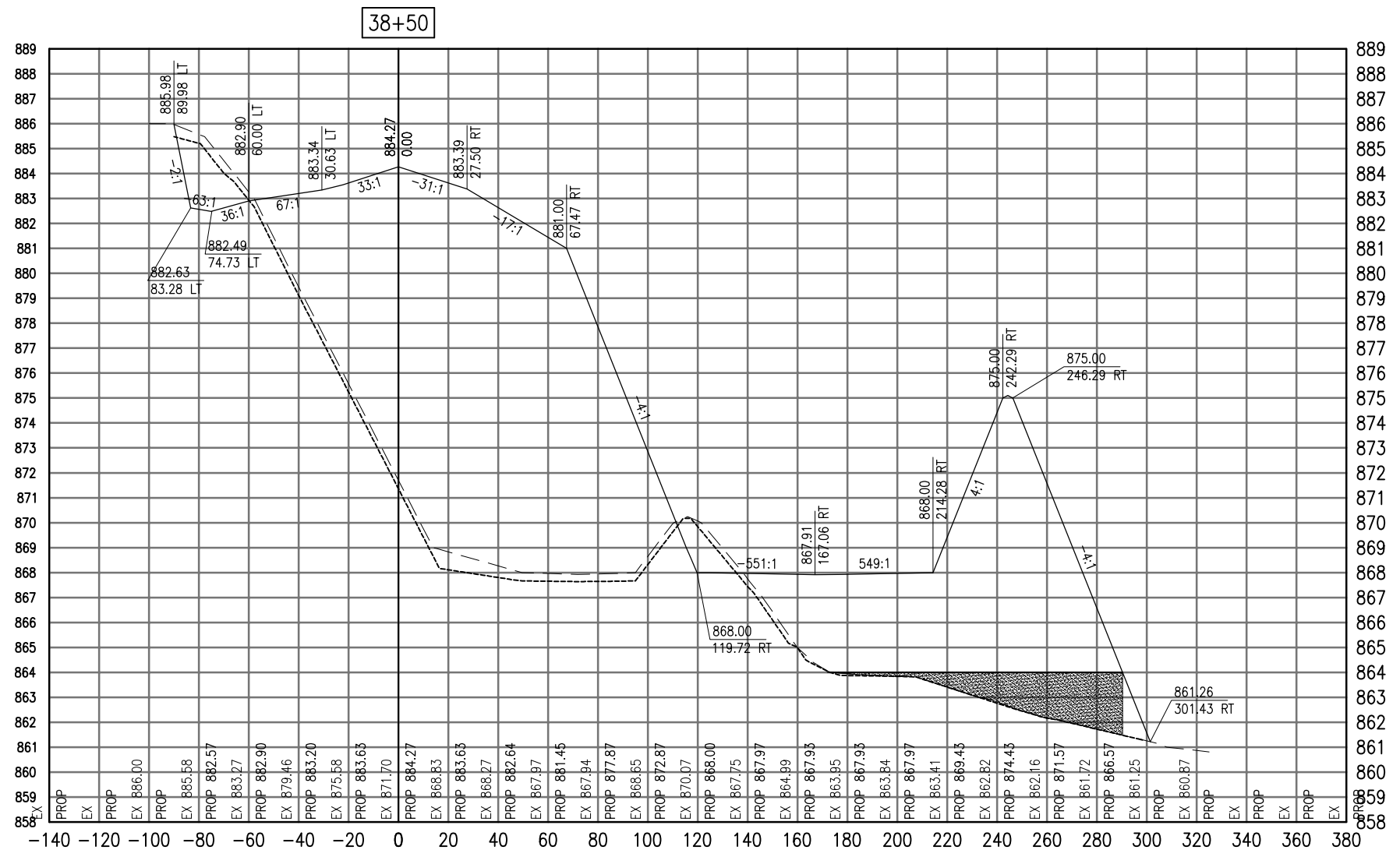


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38+50

Total Volume at Station 38+50.00	
Cut Area	88.25
Fill Area	2494.18
Cut Vol	86.71
Fill Vol	2236.05
Cum Cut Vol	241.17
Cum Fill Vol	5346.65
Net Vol	-5105.49

Material(s) at Station 38+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	82.35	88.31	240.43

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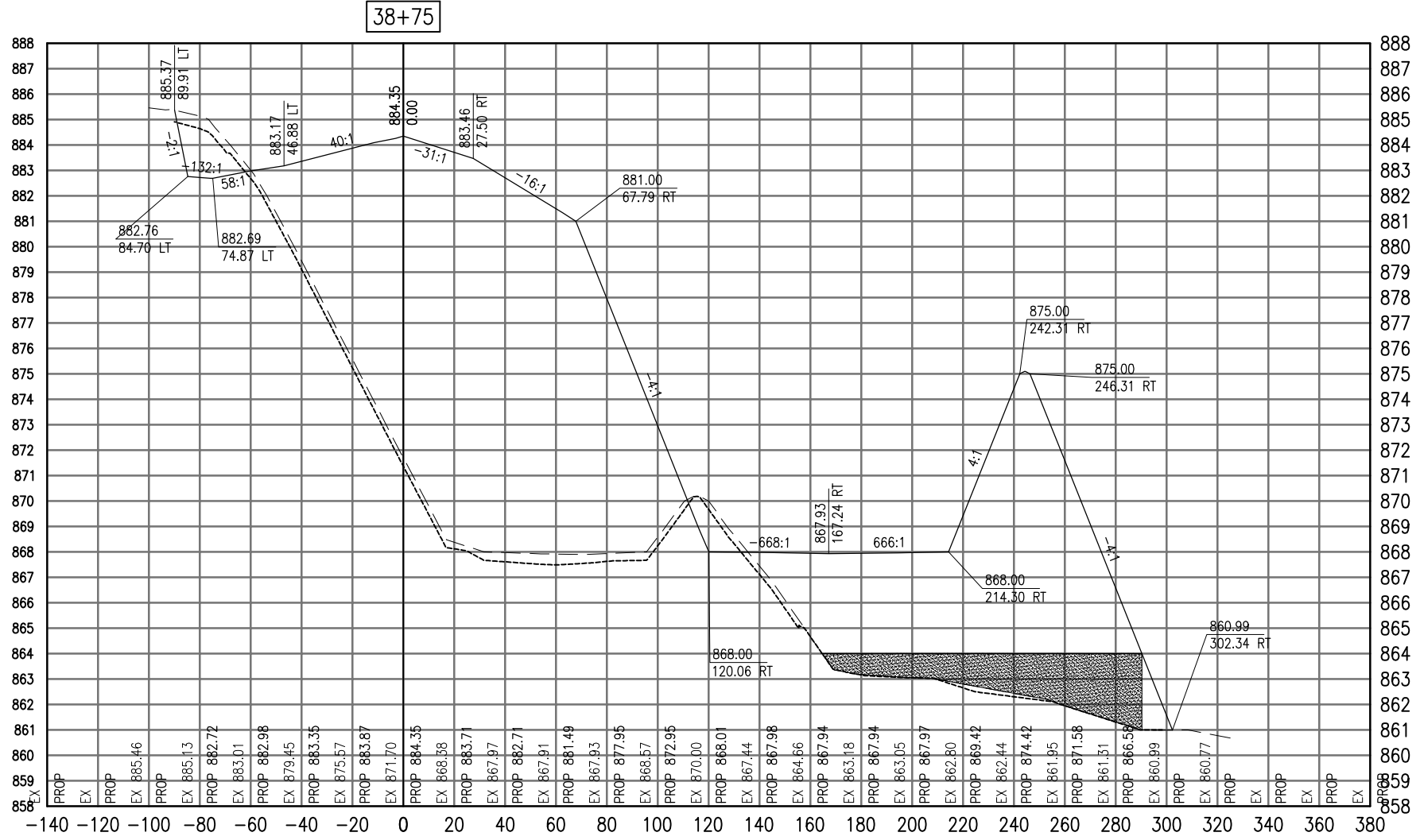


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38+75

Cut Area	70.31
Fill Area	2609.03
Cut Vol	73.41
Fill Vol	2362.60
Cum Cut Vol	314.58
Cum Fill Vol	7709.25
Net Vol	-7394.68

Material Name	Area	Volume	Cumulative Volume
Cut	39.58	84.20	324.63

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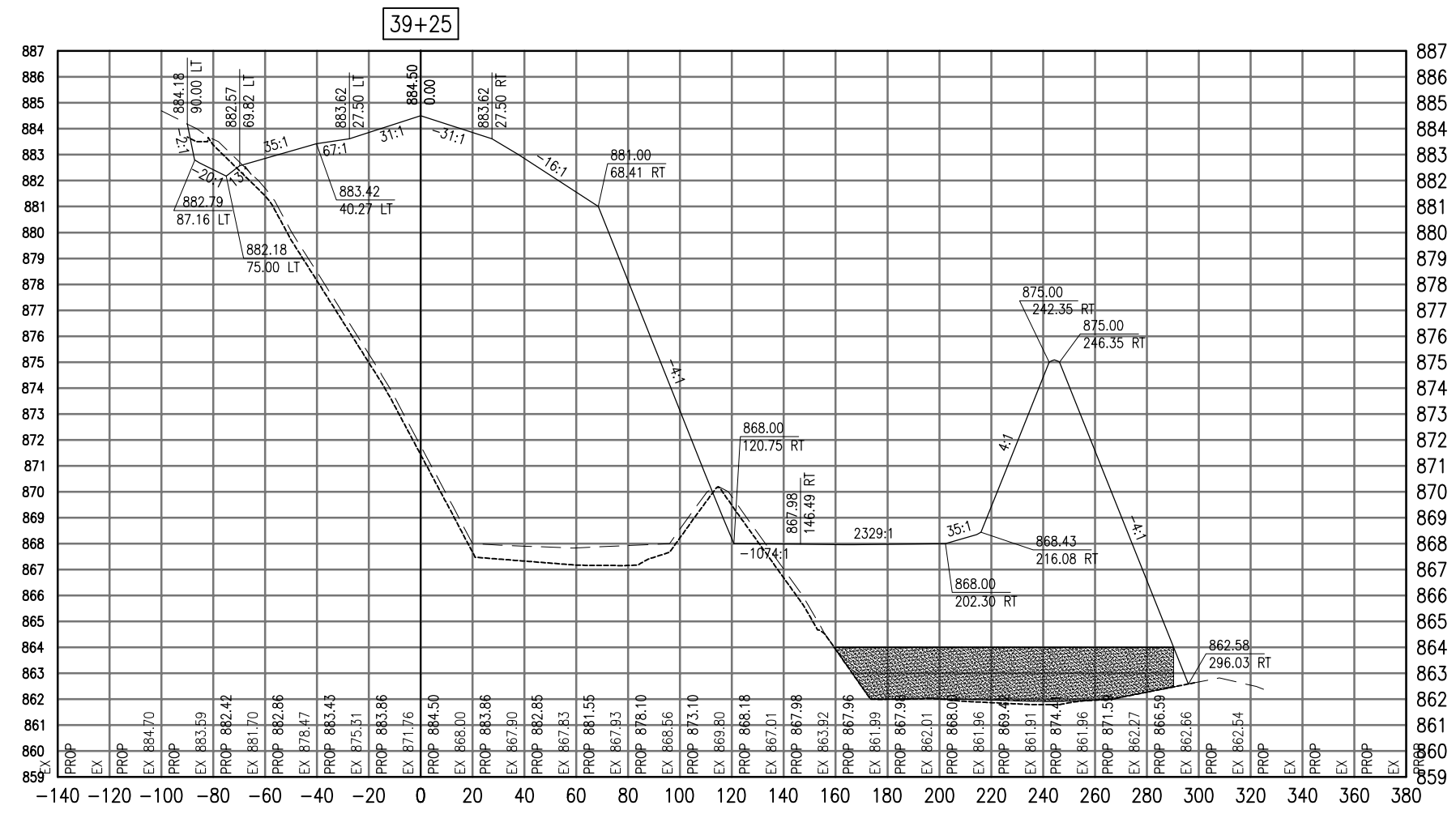
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Cut Area	39.08
Fill Area	2738.18
Cut Vol	42.76
Fill Vol	2512.81
Cum Cut Vol	414.55
Cum Fill Vol	12675.08
Net Vol	-12260.54

Material Name	Area	Volume	Cumulative Volume
Cut	06.29	98.06	512.99

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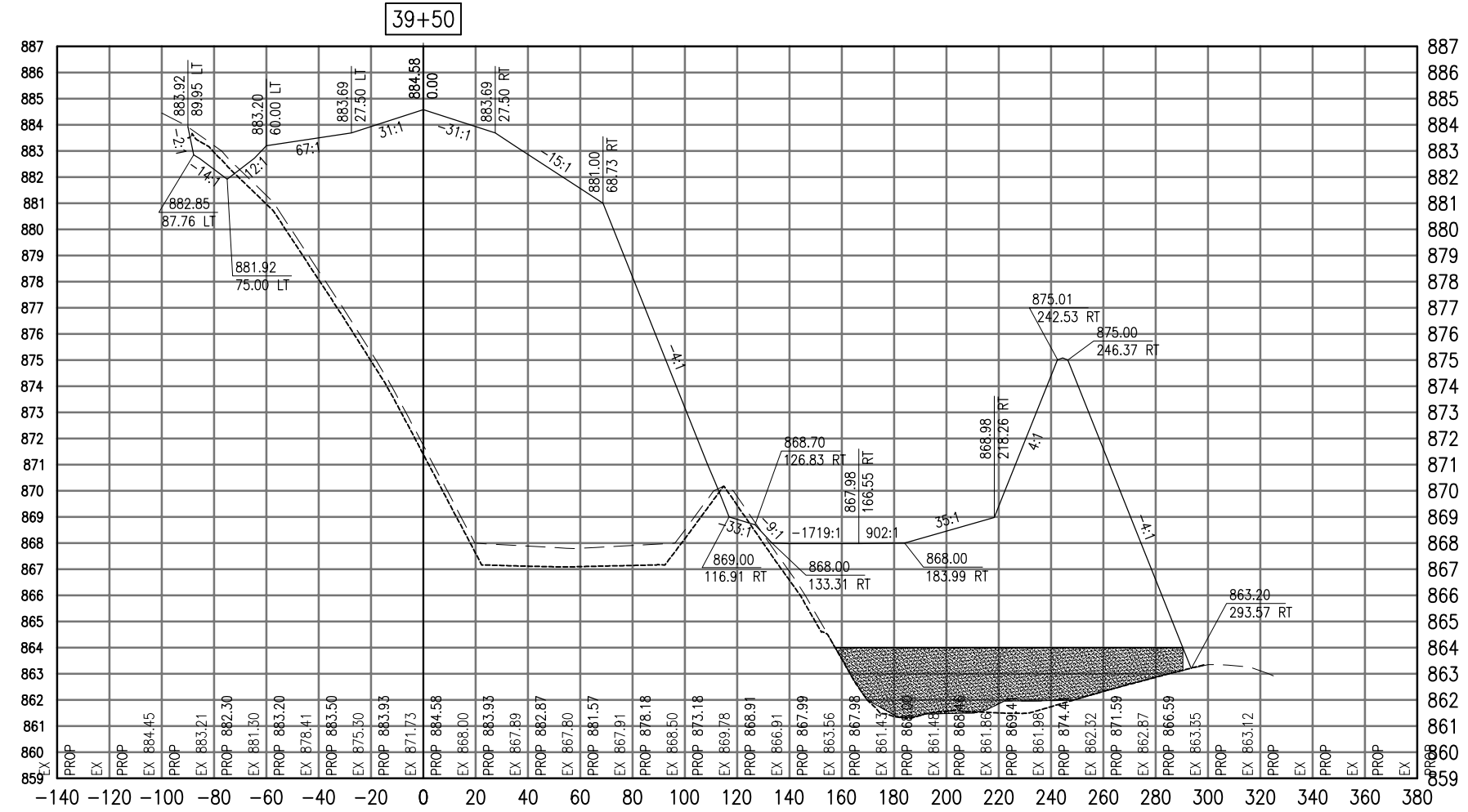


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Total Volume at Station 39+50.00	
Cut Area	26.72
Fill Area	2787.69
Cut Vol	30.47
Fill Vol	2558.27
Cum Cut Vol	445.01
Cum Fill Vol	15233.35
Net Vol	-14788.34

Material(s) at Station 39+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	21.60	105.50	618.50

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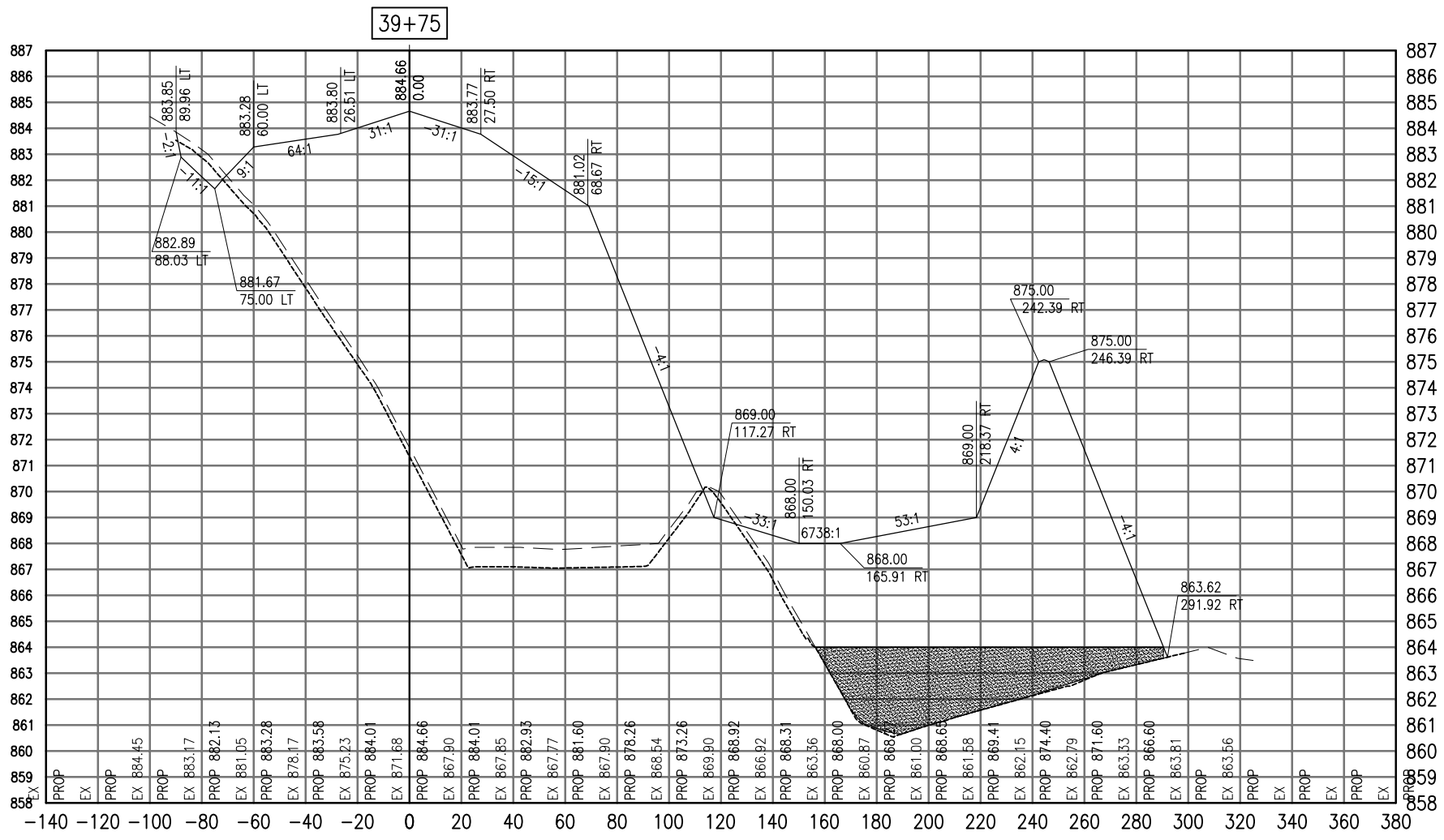
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Total Volume at Station 39+75.00	
Cut Area	31.47
Fill Area	2838.77
Cut Vol	26.94
Fill Vol	2604.84
Cum Cut Vol	471.95
Cum Fill Vol	17838.19
Net Vol	-17366.24

Material(s) at Station 39+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	13.21	108.70	727.20

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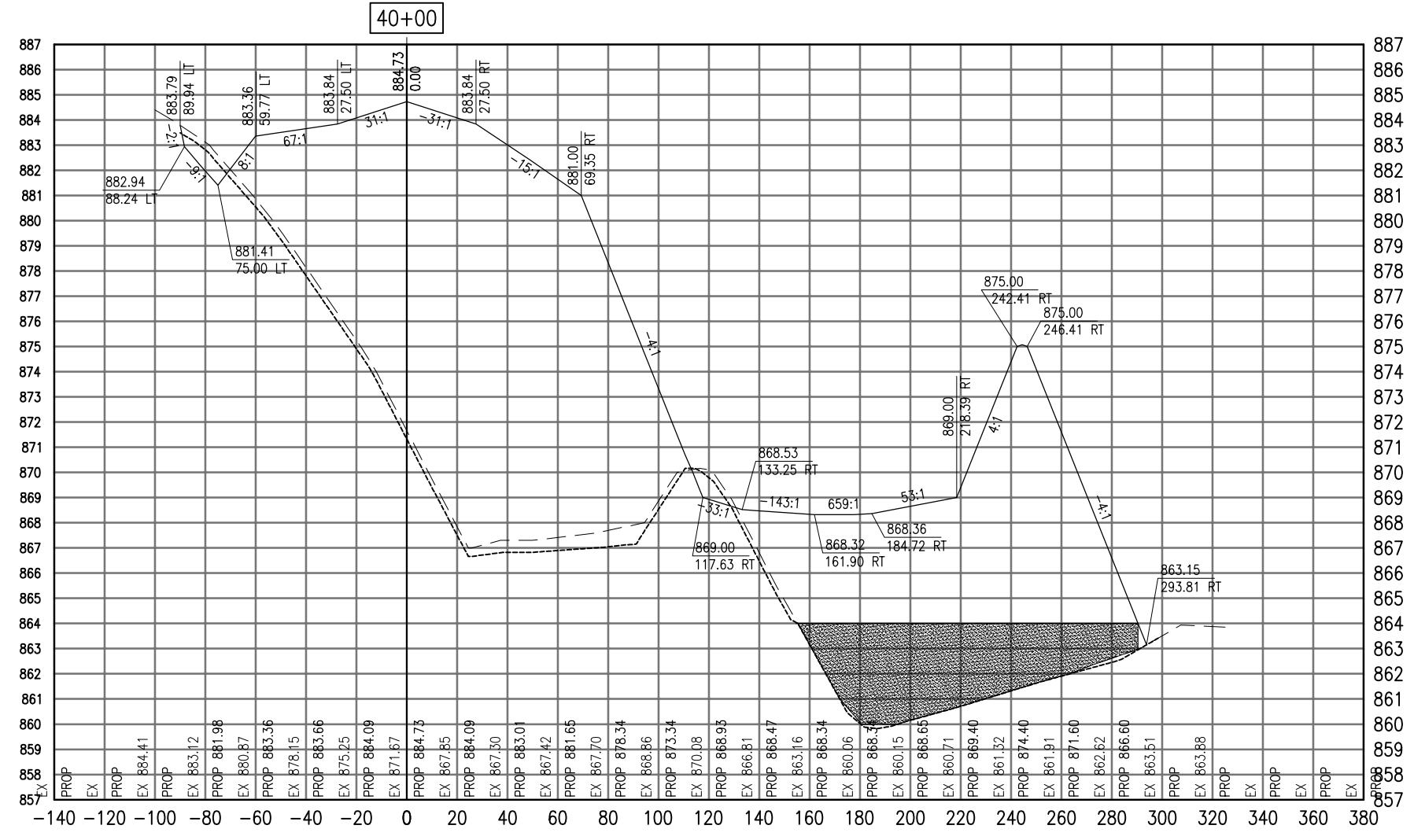


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Total Volume at Station 40+00.00	
Cut Area	33.17
Fill Area	2991.36
Cut Vol	29.92
Fill Vol	2699.13
Cum Cut Vol	501.88
Cum Fill Vol	20537.33
Net Vol	-20035.45

Material(s) at Station 40+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	36.88	97.26	824.45

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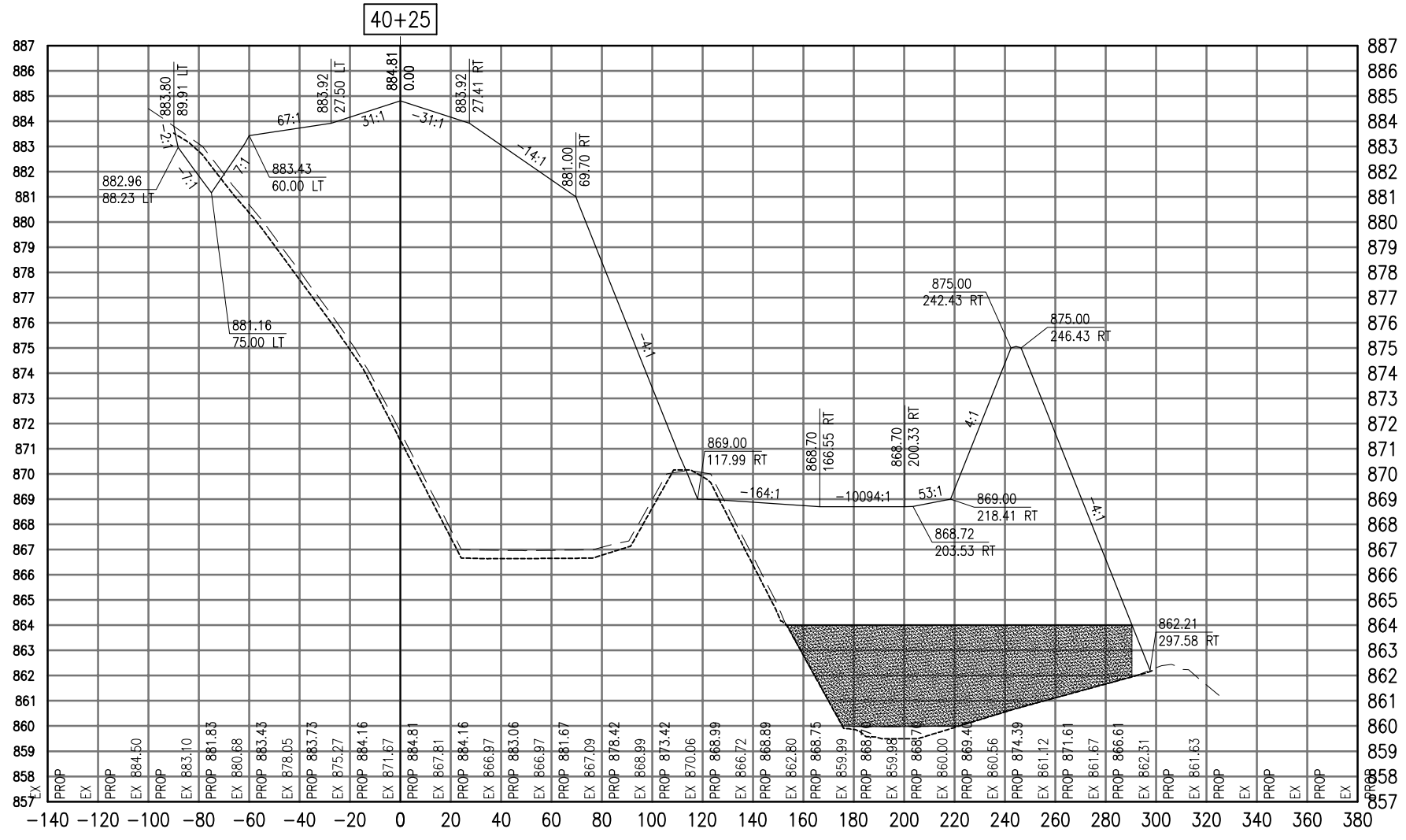


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Cut Area	29.87
Fill Area	3145.98
Cut Vol	29.19
Fill Vol	2841.36
Cum Cut Vol	531.06
Cum Fill Vol	23378.69
Net Vol	-22847.63

Material Name	Area	Volume	Cumulative Volume
Cut	39.38	86.23	910.68

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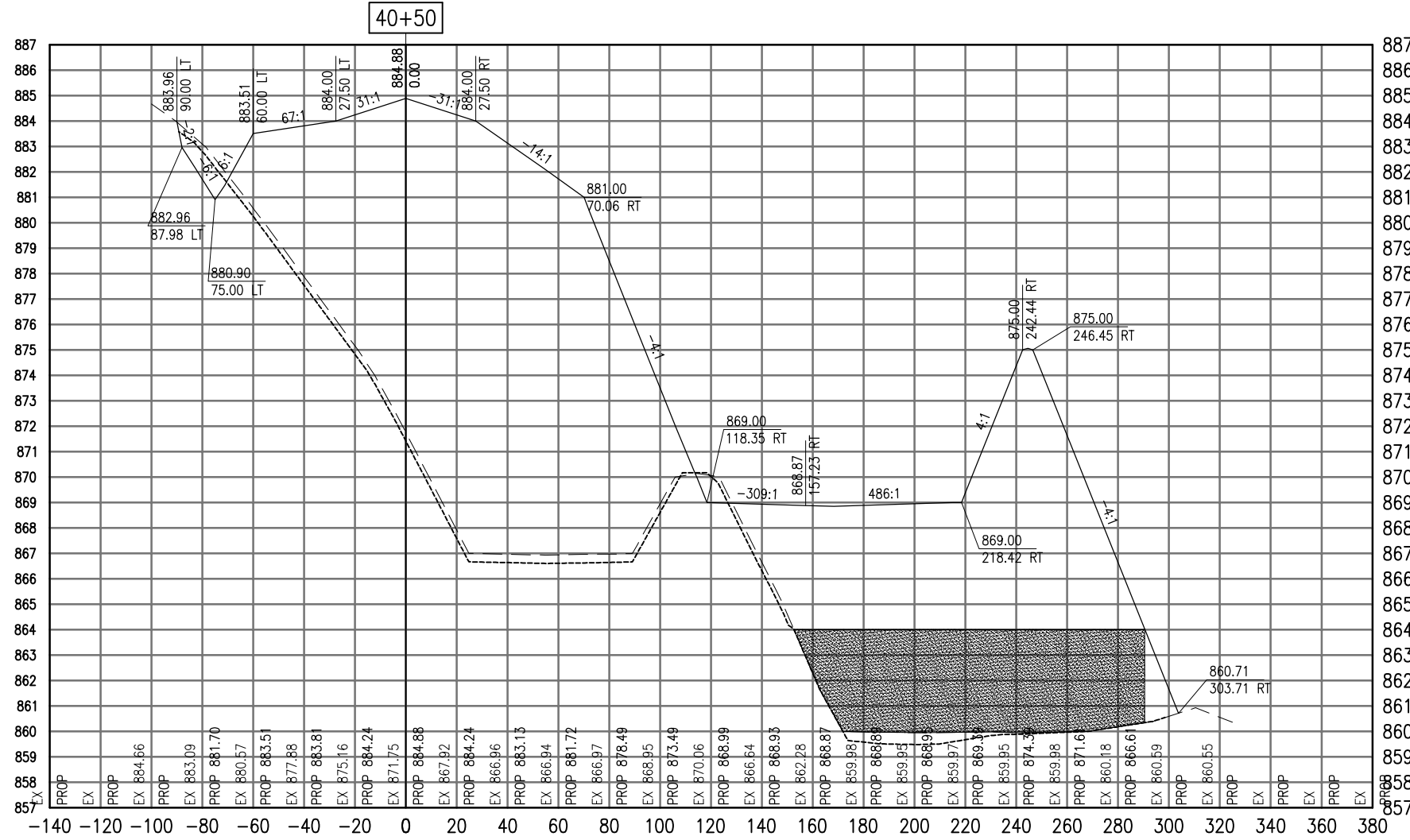


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**CONSTRUCT PARALLEL TAXWAY A,  
 STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 40+50.00	
Cut Area	32.03
Fill Area	3273.58
Cut Vol	14.83
Fill Vol	1515.55
Cum Cut Vol	14.83
Cum Fill Vol	1515.55
Net Vol	-1500.72

Material(s) at Station 40+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	98.19	45.46	45.46

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DATE	REVISION

**VILLAGE OF LAKE IN THE HILLS**  
600 Harvest Gate  
Lake in the Hills, Illinois 60156 Telephone:  
847.960.7410  
Fax: 847.960.7515

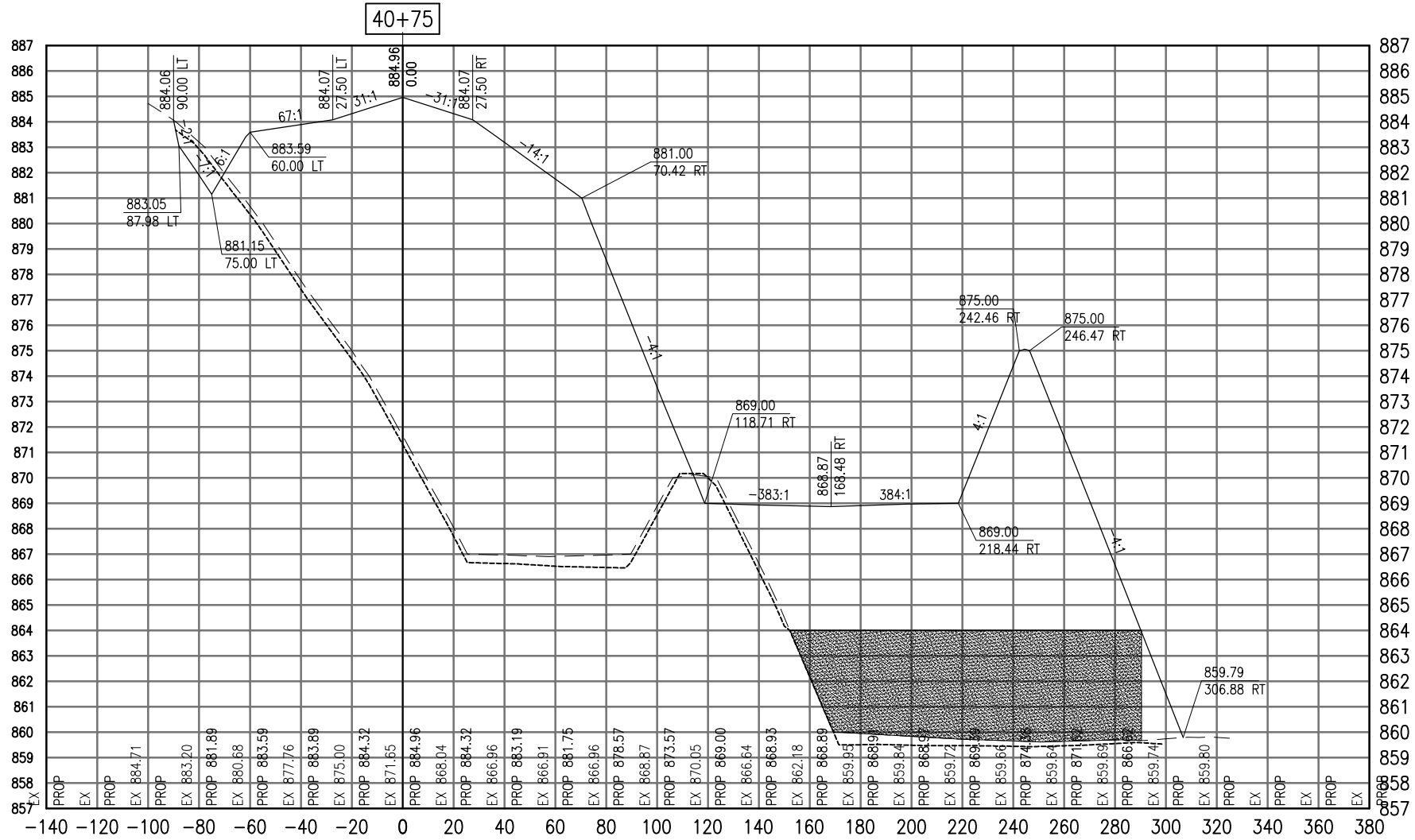


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Scale	1"=30'
Date	AUGUST 14, 2009
LAYOUT	SJM 08/13/09
DRAWN	BLB 08/13/09
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**STAGE 1, GRADING AND DRAINAGE**  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 40+75.00	
Cut Area	30.00
Fill Area	3336.04
Cut Vol	28.72
Fill Vol	3060.01
Cum Cut Vol	43.54
Cum Fill Vol	4575.56
Net Vol	-4532.01

Material(s) at Station 40+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	110.98	96.84	142.30

DATE	REVISION

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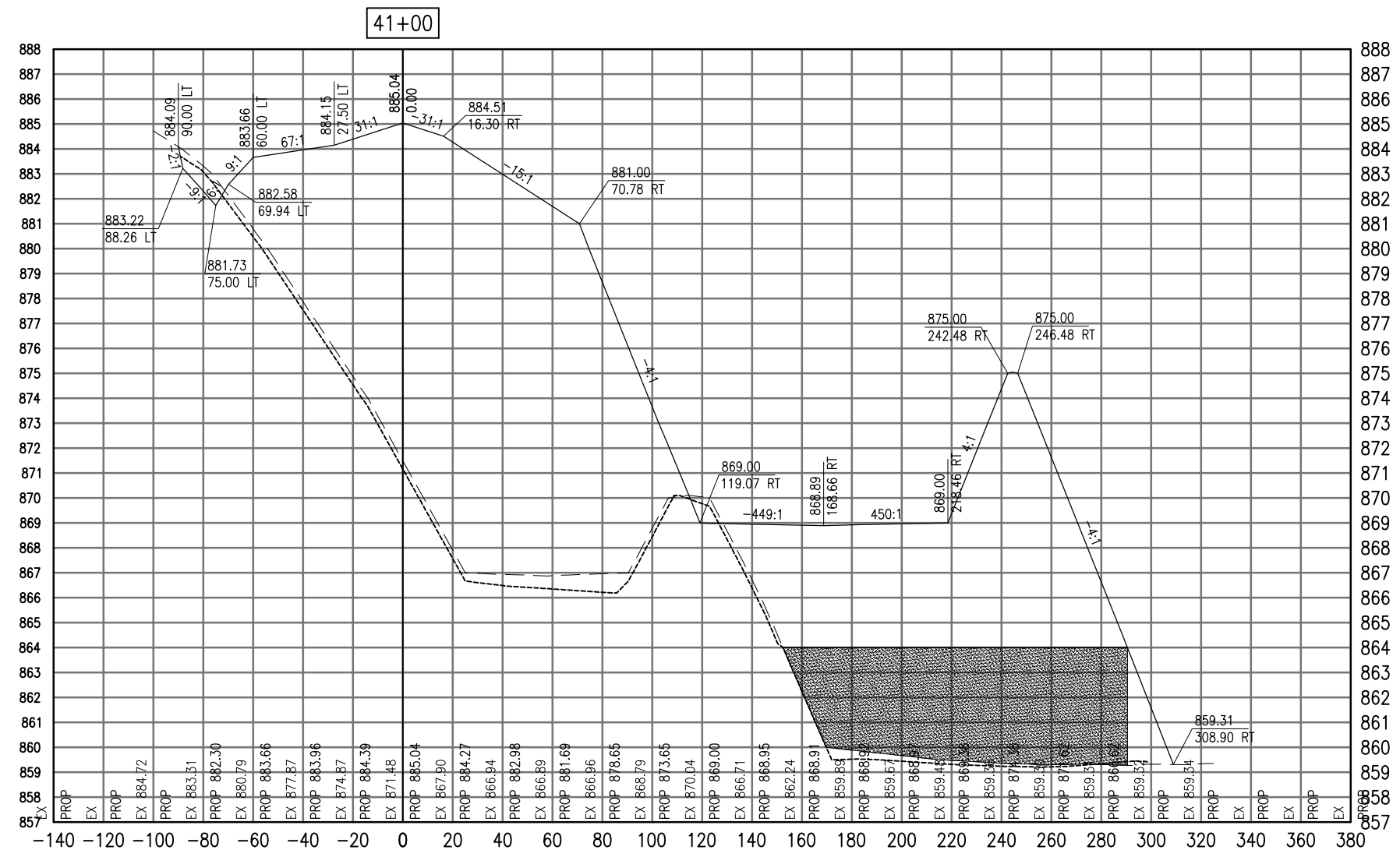


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IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 41+00.00	
Cut Area	24.26
Fill Area	3378.76
Cut Vol	25.12
Fill Vol	3108.70
Cum Cut Vol	68.66
Cum Fill Vol	7684.26
Net Vol	-7615.60

Material(s) at Station 41+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	109.46	102.05	244.35

DATE	REVISION

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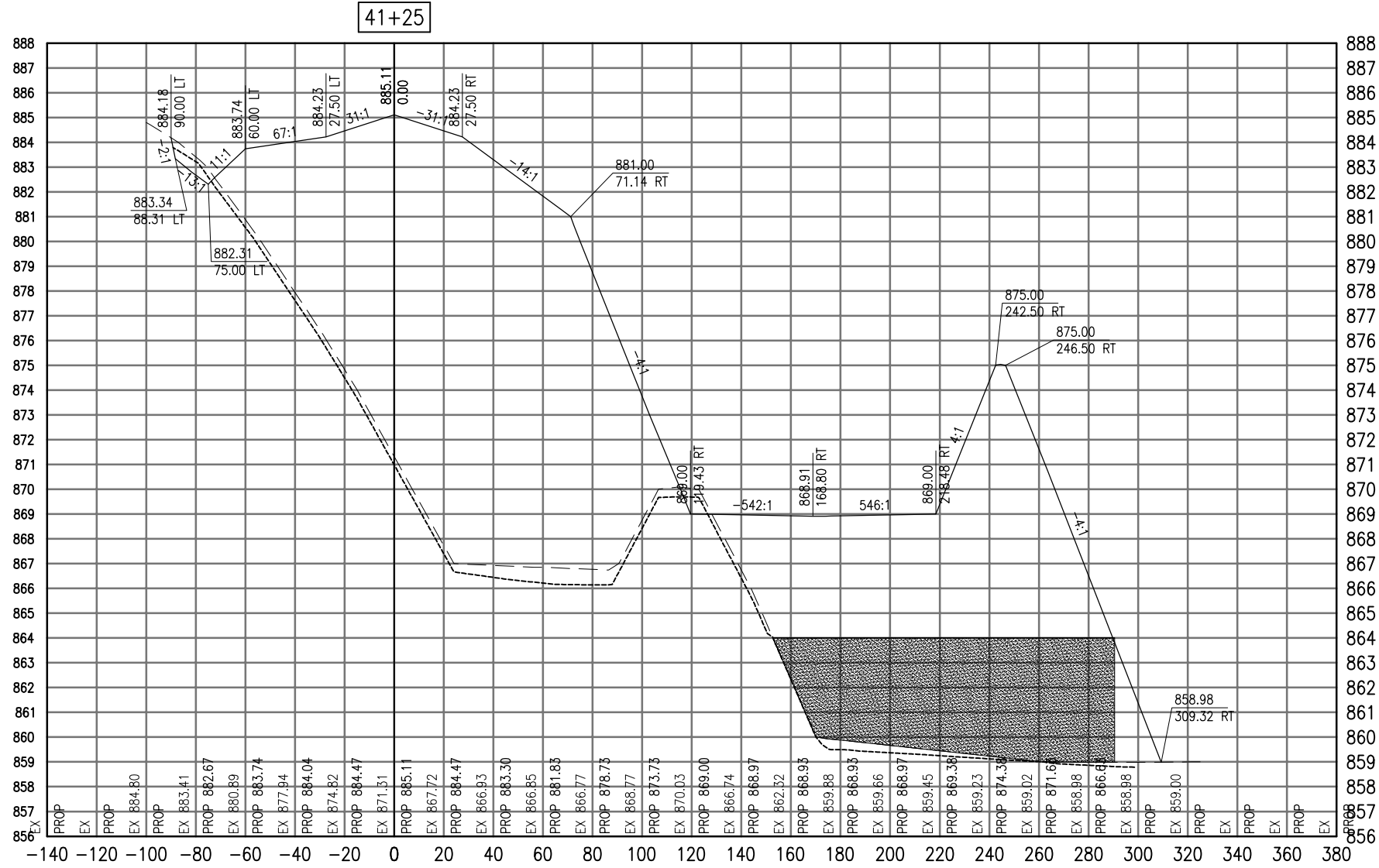


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 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 41+25.00	
Cut Area	19.51
Fill Area	3429.64
Cut Vol	20.26
Fill Vol	3152.04
Cum Cut Vol	88.92
Cum Fill Vol	10836.30
Net Vol	-10747.38

Material(s) at Station 41+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	118.20	105.40	349.75

DATE	REVISION

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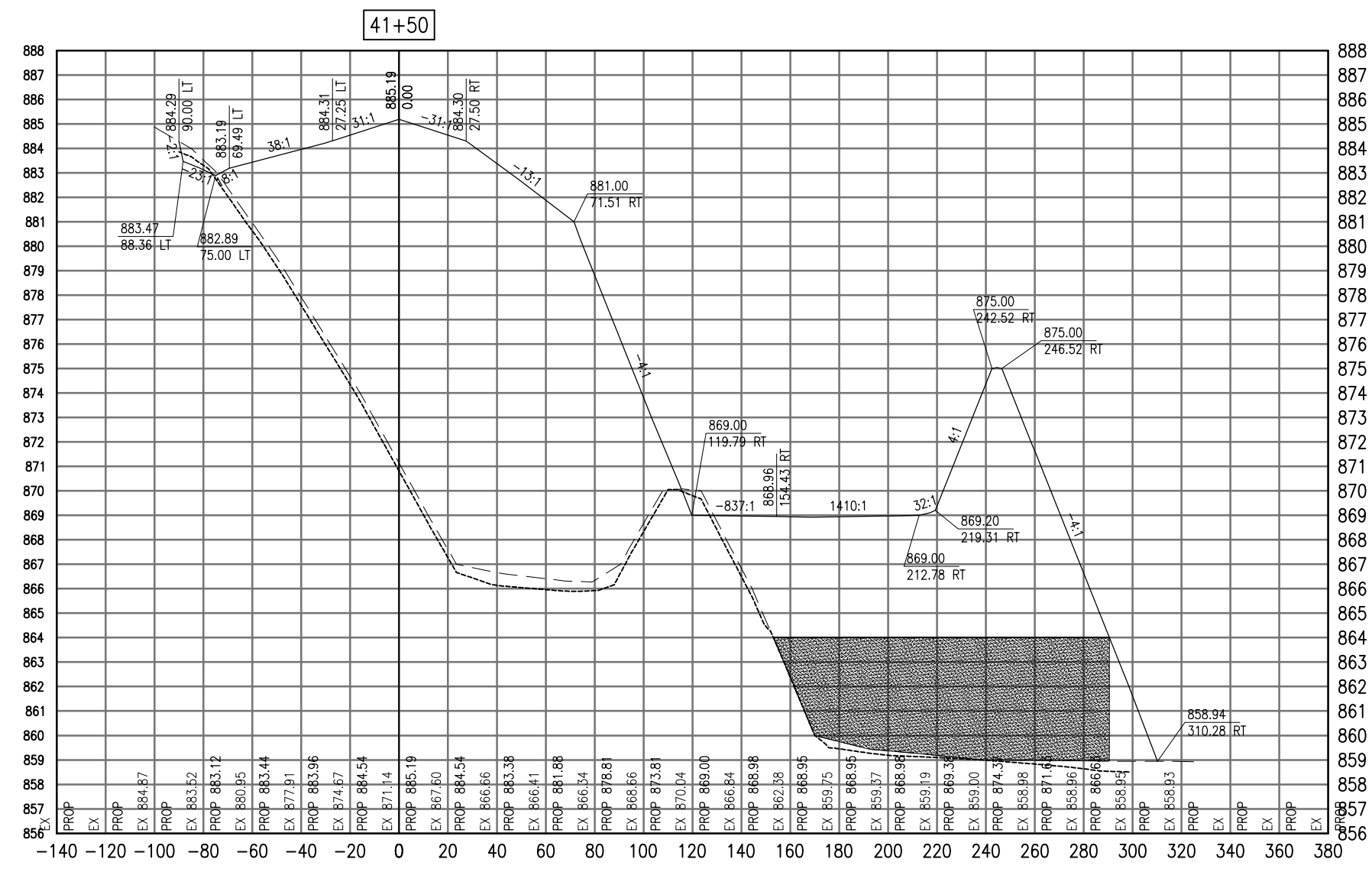


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**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 41+50.00	
Cut Area	15.81
Fill Area	3485.47
Cut Vol	16.35
Fill Vol	3201.44
Cum Cut Vol	105.27
Cum Fill Vol	14037.74
Net Vol	-13932.47

Material(s) at Station 41+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	108.95	105.16	454.92

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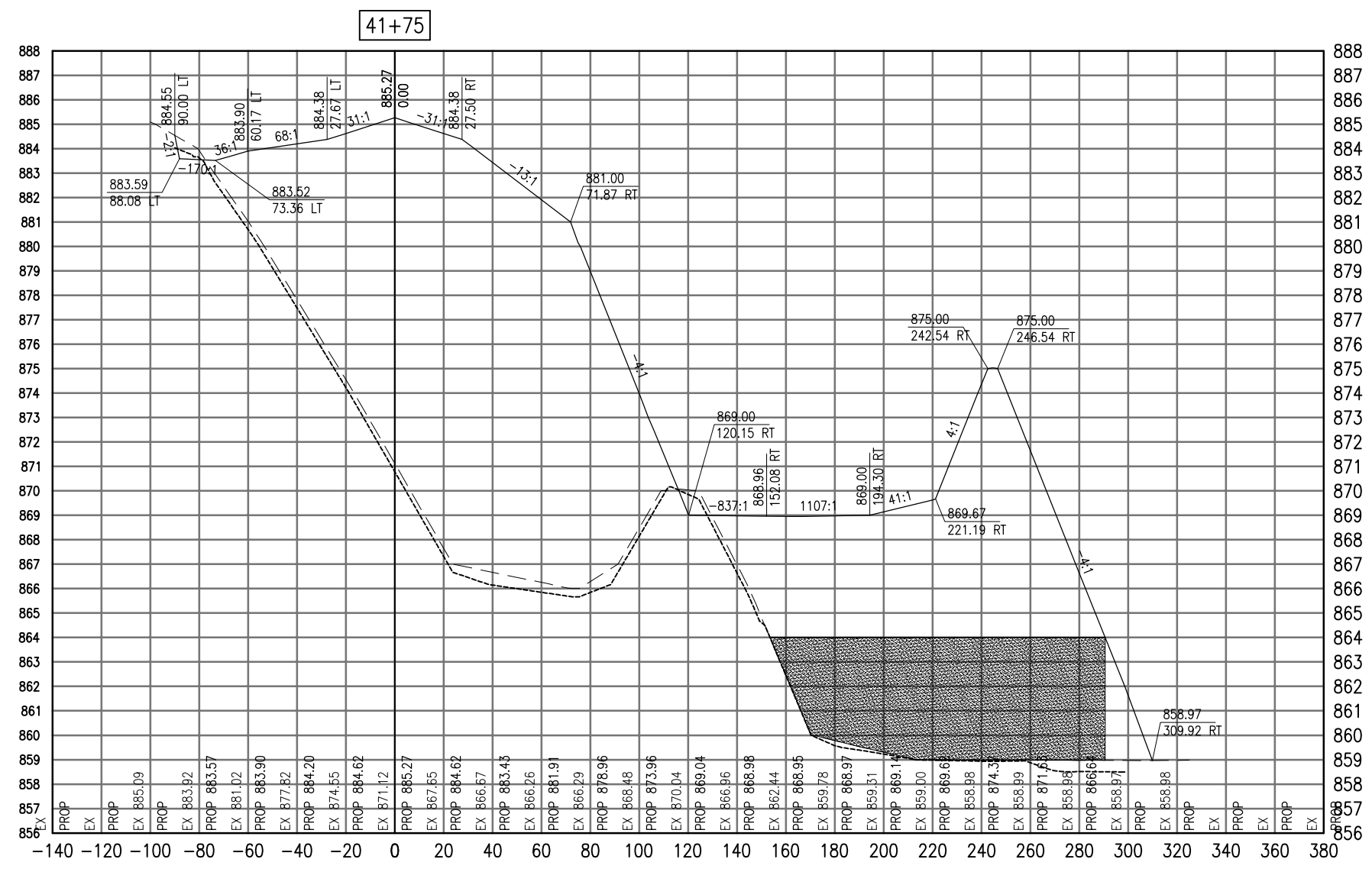
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**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



SEE LEGEND, PAGE 17



Cut Area	15.34
Fill Area	3534.91
Cut Vol	14.42
Fill Vol	3250.18
Cum Cut Vol	119.69
Cum Fill Vol	17287.91
Net Vol	-17168.22

Material Name	Area	Volume	Cumulative Volume
Cut	106.99	99.97	554.89

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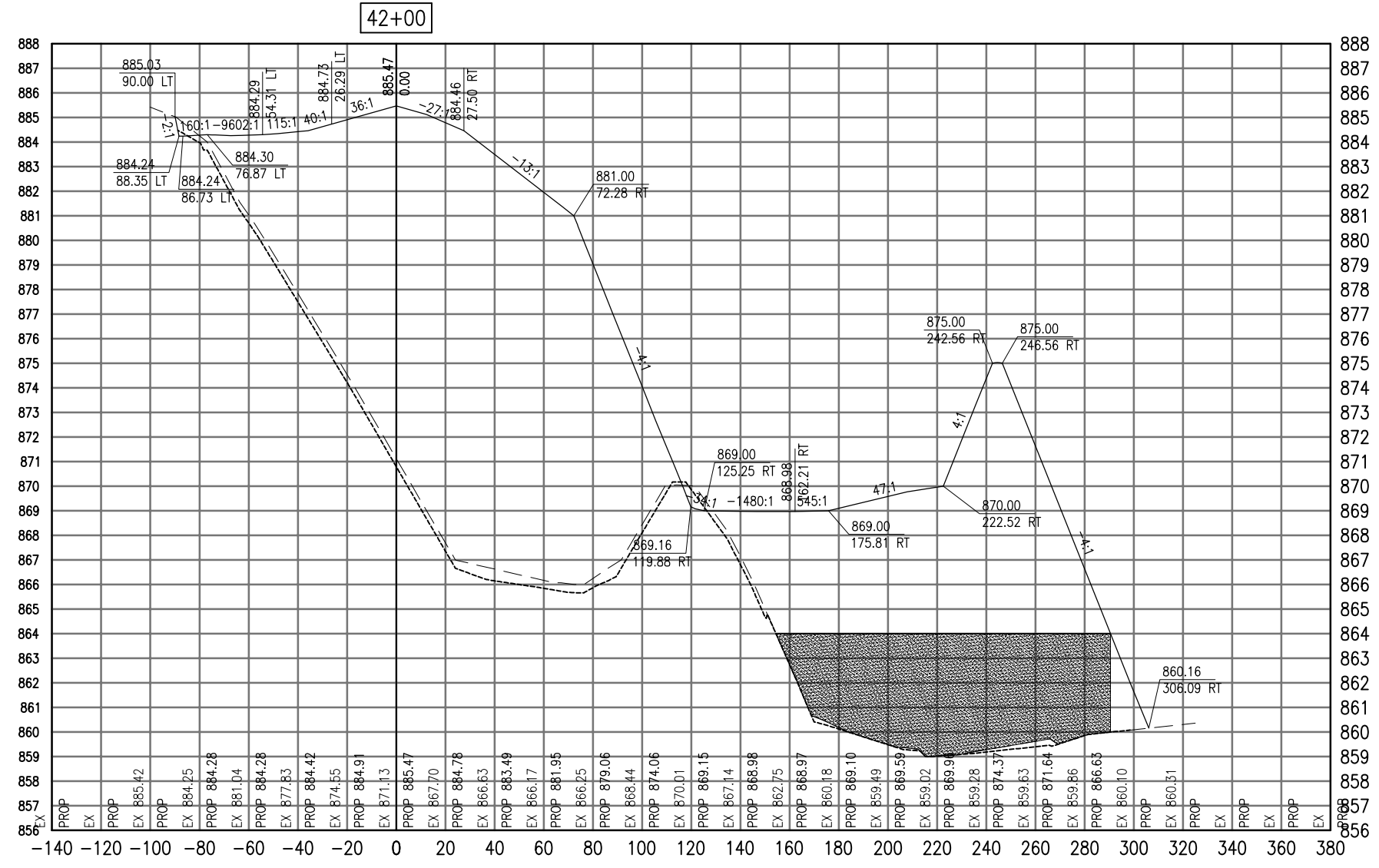


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**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Cut Area	10.37
Fill Area	3521.60
Cut Vol	11.91
Fill Vol	3266.90
Cum Cut Vol	131.60
Cum Fill Vol	20554.81
Net Vol	-20423.21

Material Name	Area	Volume	Cumulative Volume
Cut	89.89	91.15	646.04

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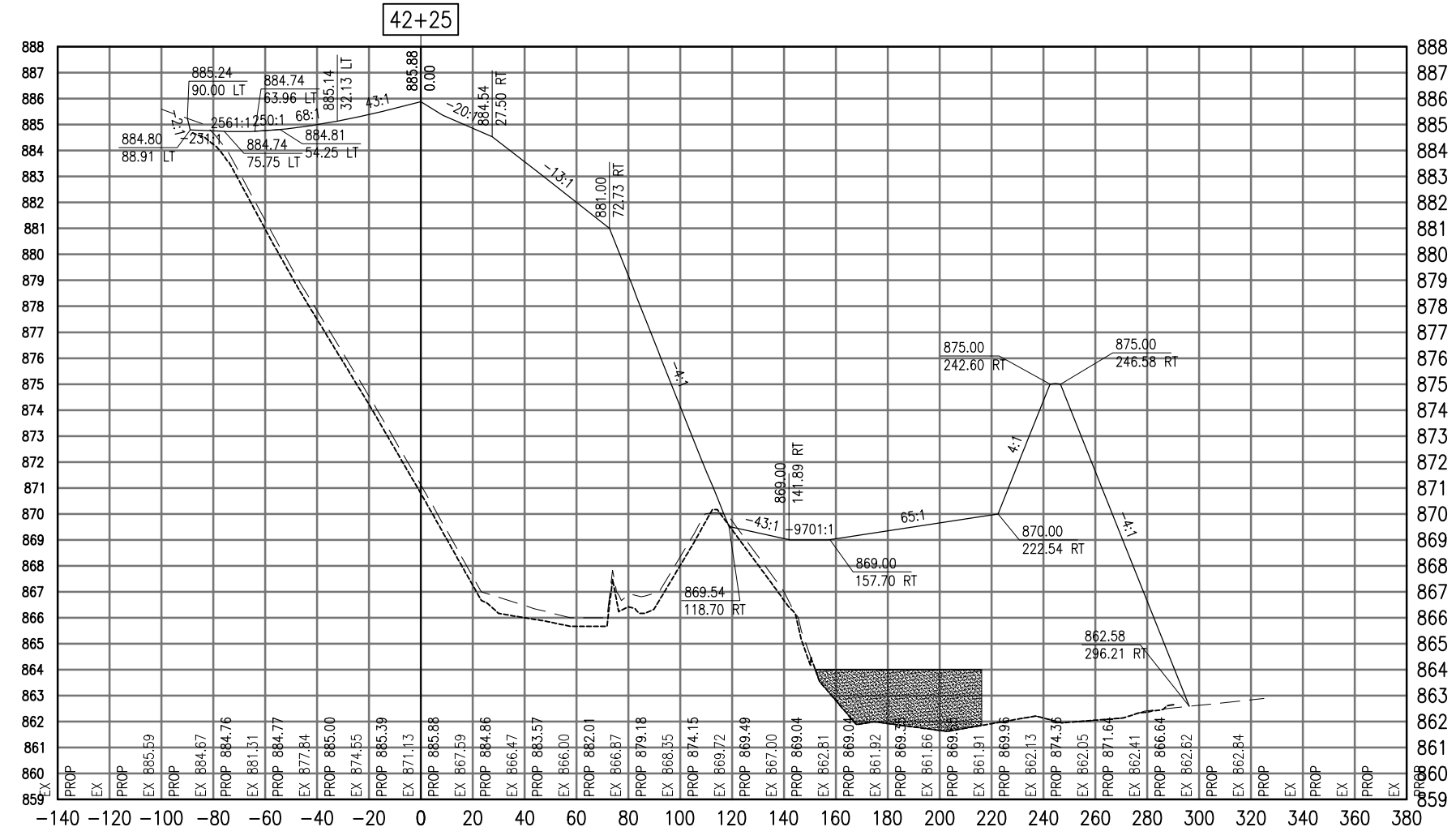


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**STAGE 1, GRADING AND DRAINAGE**  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 42+25.00	
Cut Area	3.55
Fill Area	3262.41
Cut Vol	6.45
Fill Vol	3140.74
Cum Cut Vol	138.05
Cum Fill Vol	23695.55
Net Vol	-23557.51

Material(s) at Station 42+25.00			
Material Name	Area	Volume	Cumulative Volume
Cut	86.53	81.68	727.71

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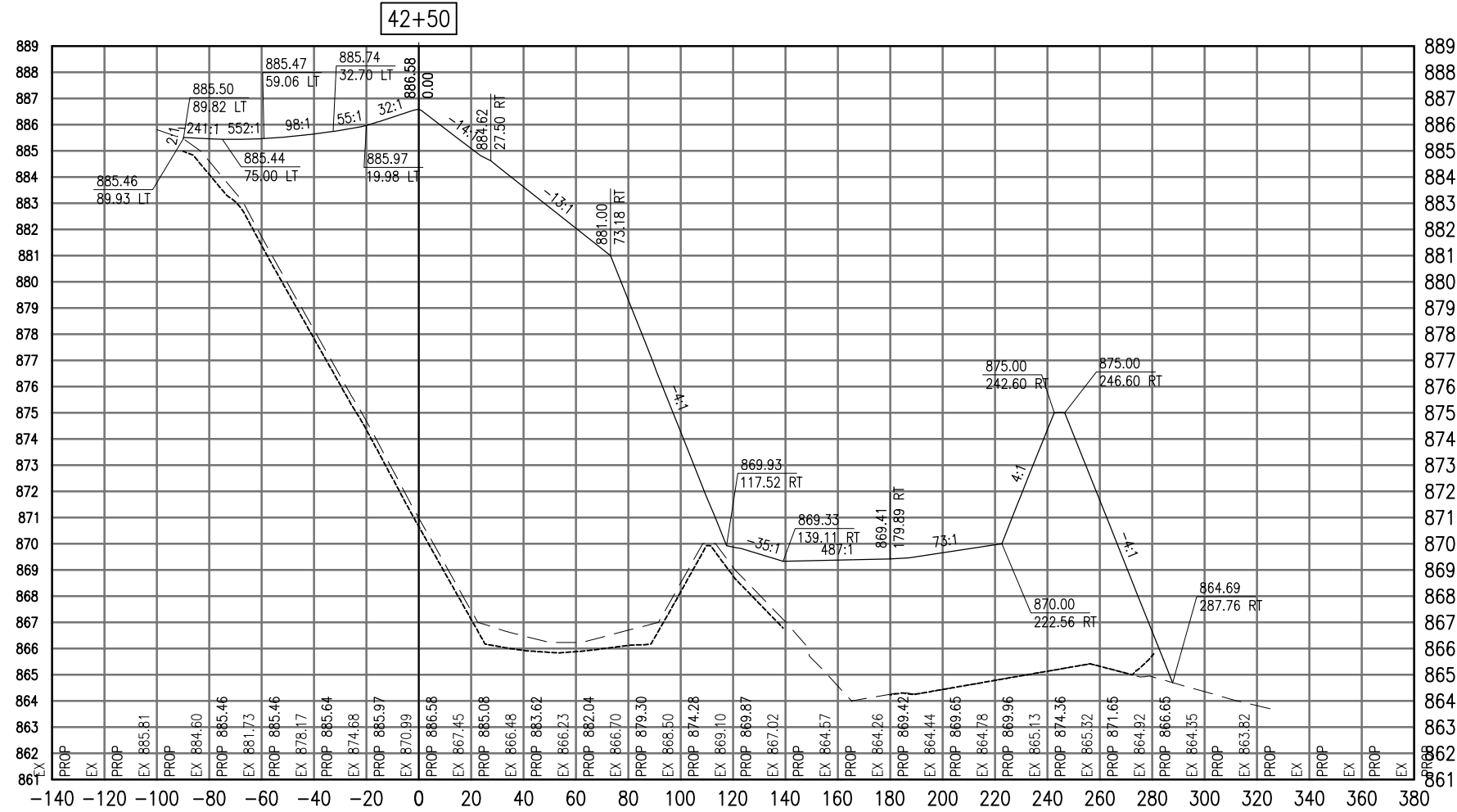


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 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 42+50.00	
Cut Area	0.00
Fill Area	2793.41
Cut Vol	1.64
Fill Vol	2803.62
Cum Cut Vol	139.69
Cum Fill Vol	26499.17
Net Vol	-26359.48

Material(s) at Station 42+50.00			
Material Name	Area	Volume	Cumulative Volume
Cut	91.20	82.28	809.99

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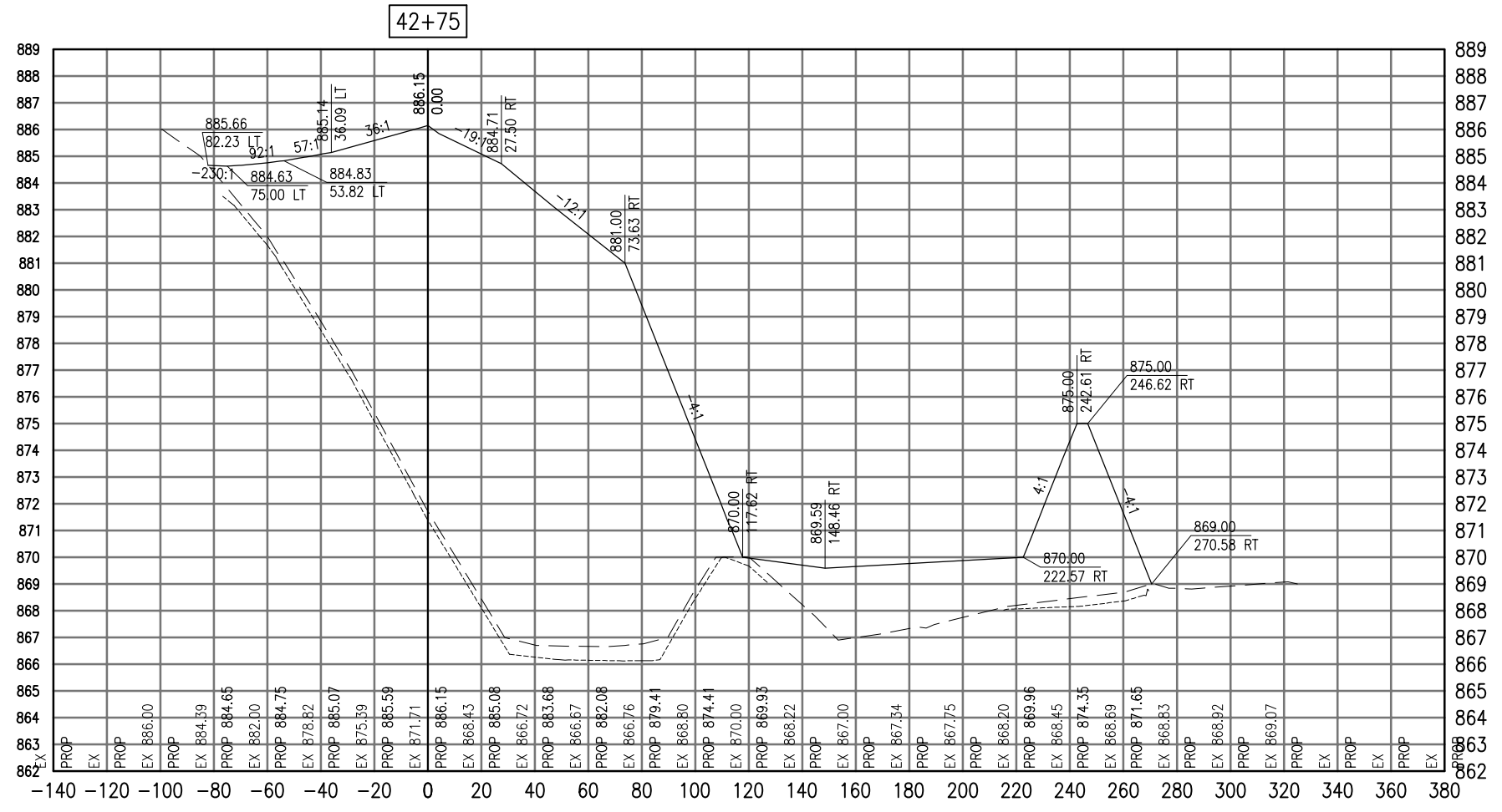


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STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12

SEE LEGEND, PAGE 17



Total Volume at Station 42+75.00	
Cut Area	3.09
Fill Area	2230.64
Cut Vol	1.43
Fill Vol	2325.95
Cum Cut Vol	137784.80
Cum Fill Vol	295056.91
Net Vol	-157272.11

Material(s) at Station 42+75.00			
Material Name	Area	Volume	Cumulative Volume
Cut	99.12	88.11	10672.20

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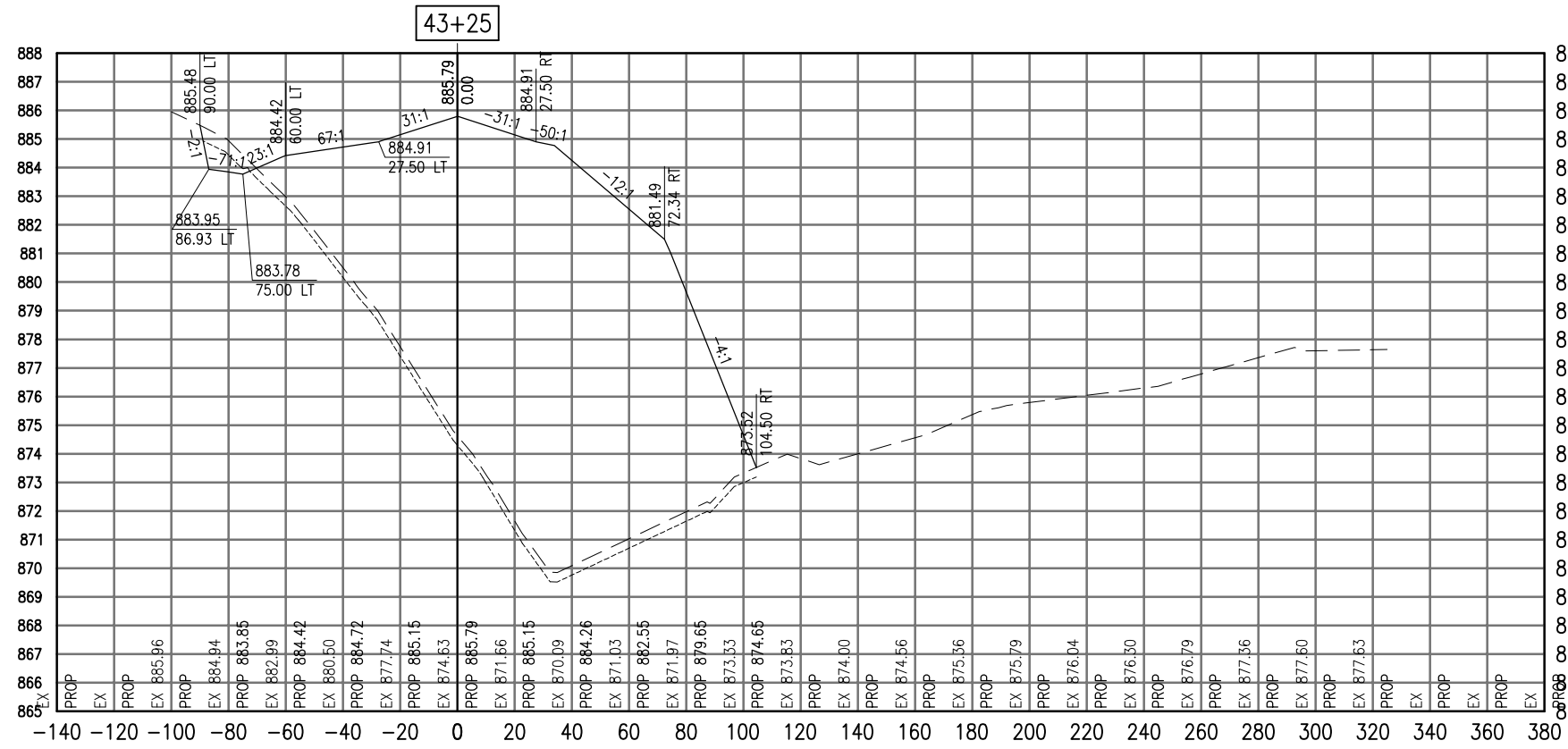
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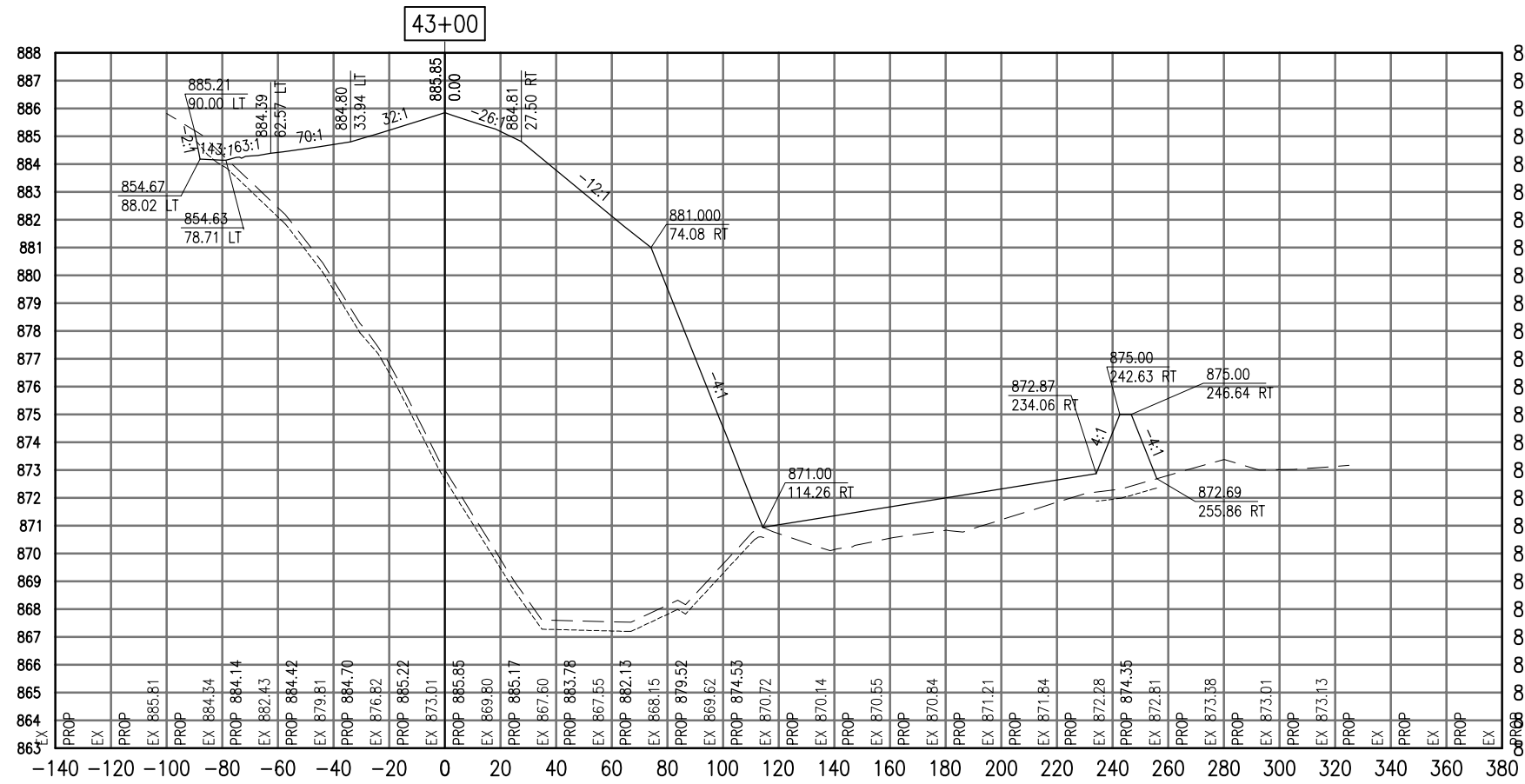
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**STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



SEE LEGEND, PAGE 17



Total Volume at Station 43+00.00	
Cut Area	6.68
Fill Area	1849.73
Cut Vol	4.52
Fill Vol	1889.06
Cum Cut Vol	137789.32
Cum Fill Vol	296945.97
Net Vol	-159156.65

Material(s) at Station 43+00.00			
Material Name	Area	Volume	Cumulative Volume
Cut	76.24	81.18	10753.38

DATE	REVISION

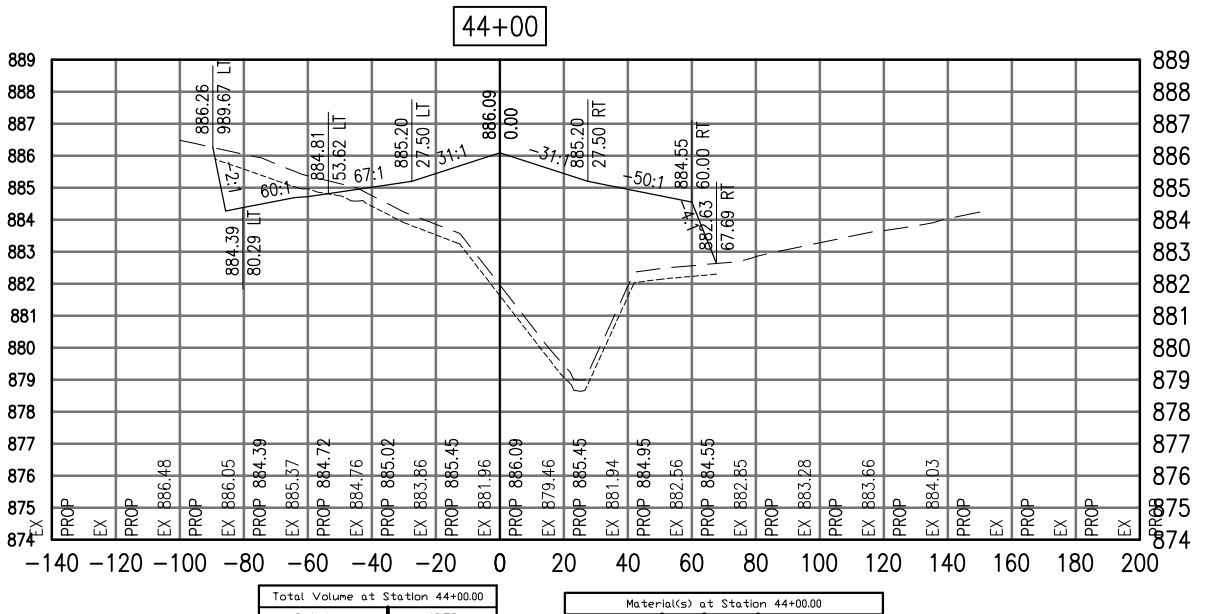
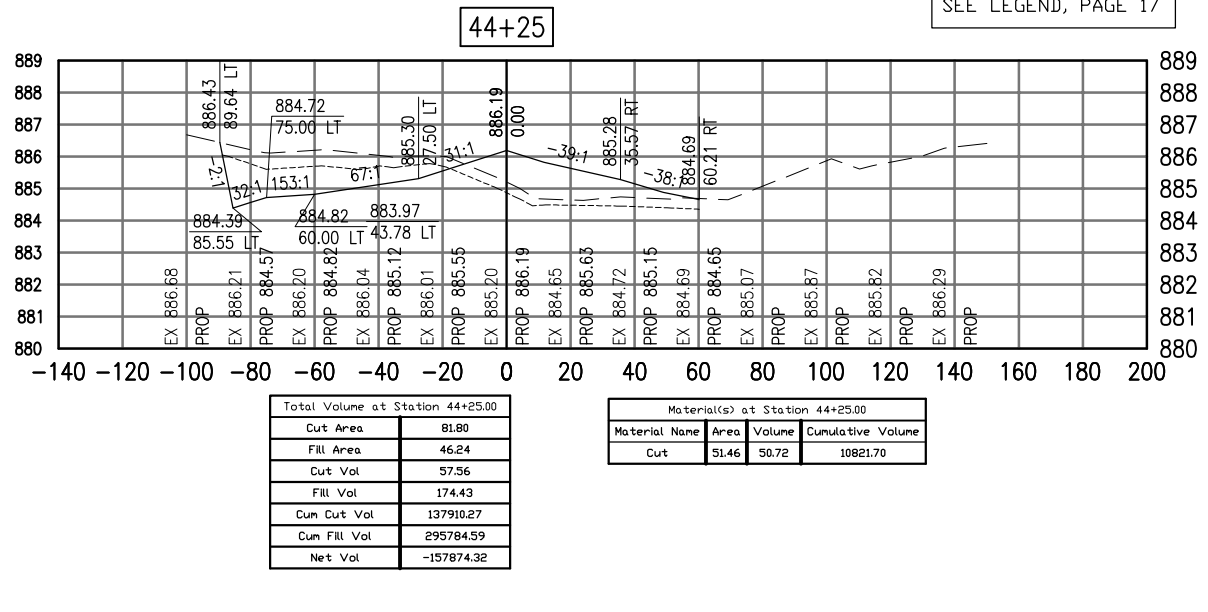
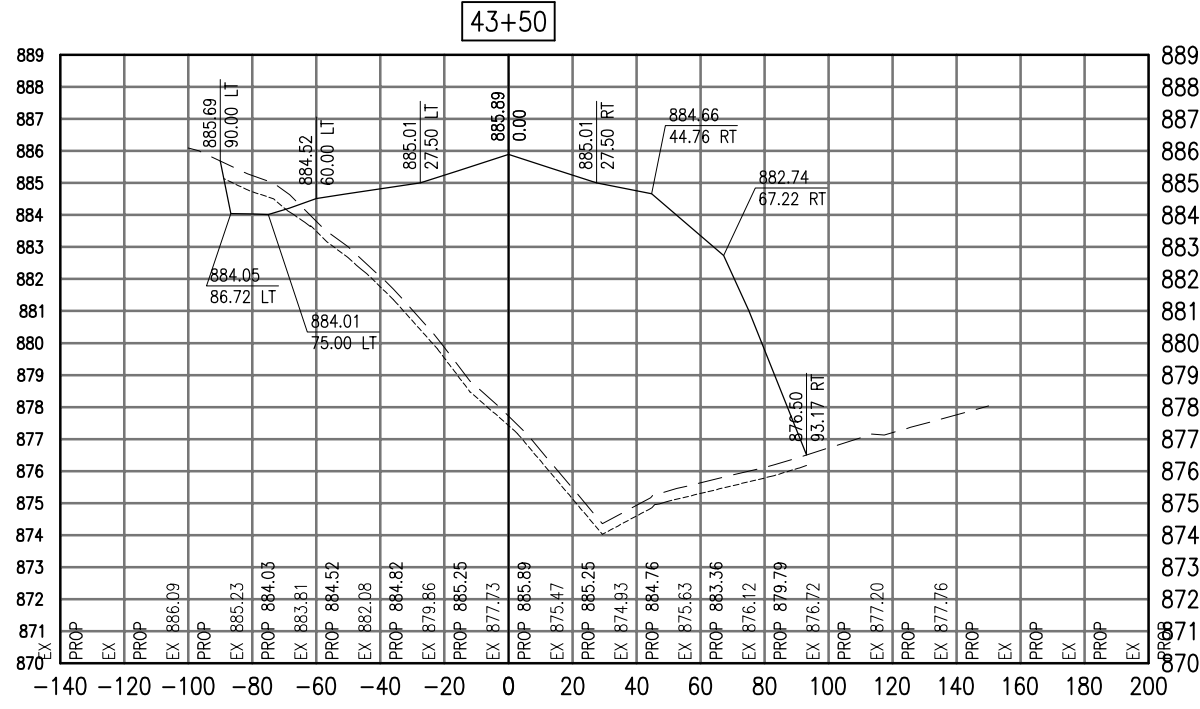
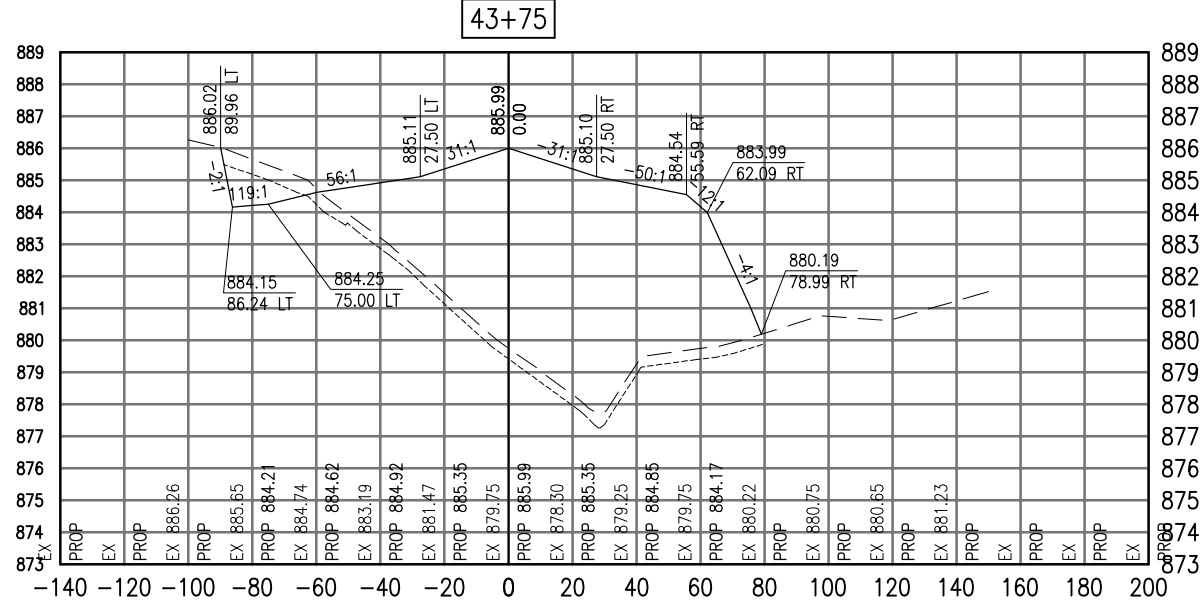
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STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12



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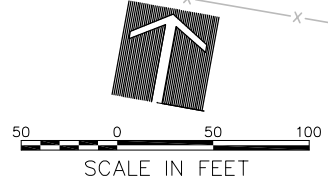
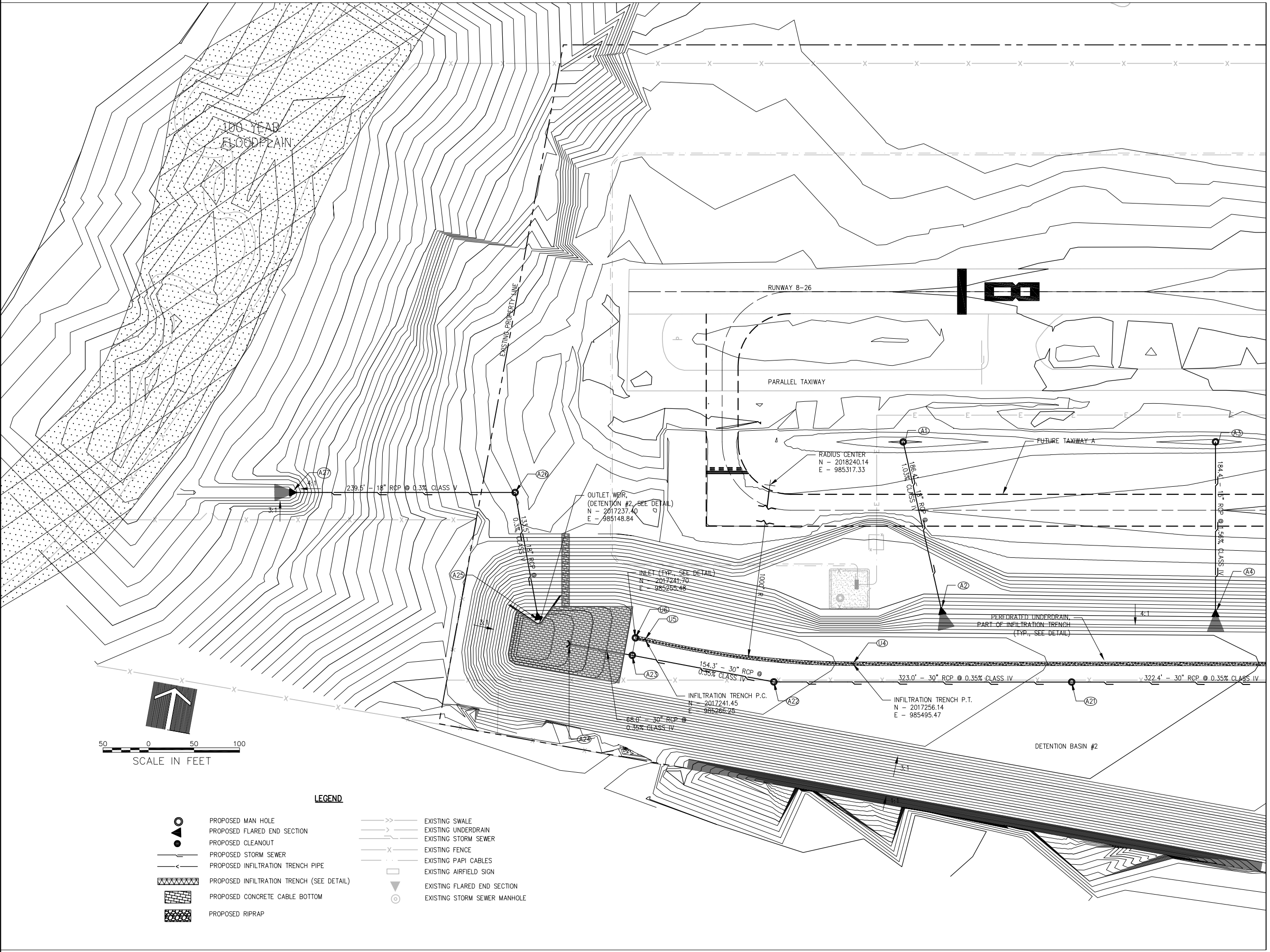
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STAGE 1, GRADING AND DRAINAGE  
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**LEGEND**

- PROPOSED MAN HOLE
- PROPOSED FLARED END SECTION
- PROPOSED CLEANOUT
- PROPOSED STORM SEWER
- PROPOSED INFILTRATION TRENCH PIPE
- ▨ PROPOSED INFILTRATION TRENCH (SEE DETAIL)
- ▨ PROPOSED CONCRETE CABLE BOTTOM
- ▨ PROPOSED RIPRAP
- EXISTING SWALE
- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING FENCE
- EXISTING PAPI CABLES
- EXISTING AIRFIELD SIGN
- ▽ EXISTING FLARED END SECTION
- EXISTING STORM SEWER MANHOLE

MATCHLINE STA. 107+00

REVISION	DATE

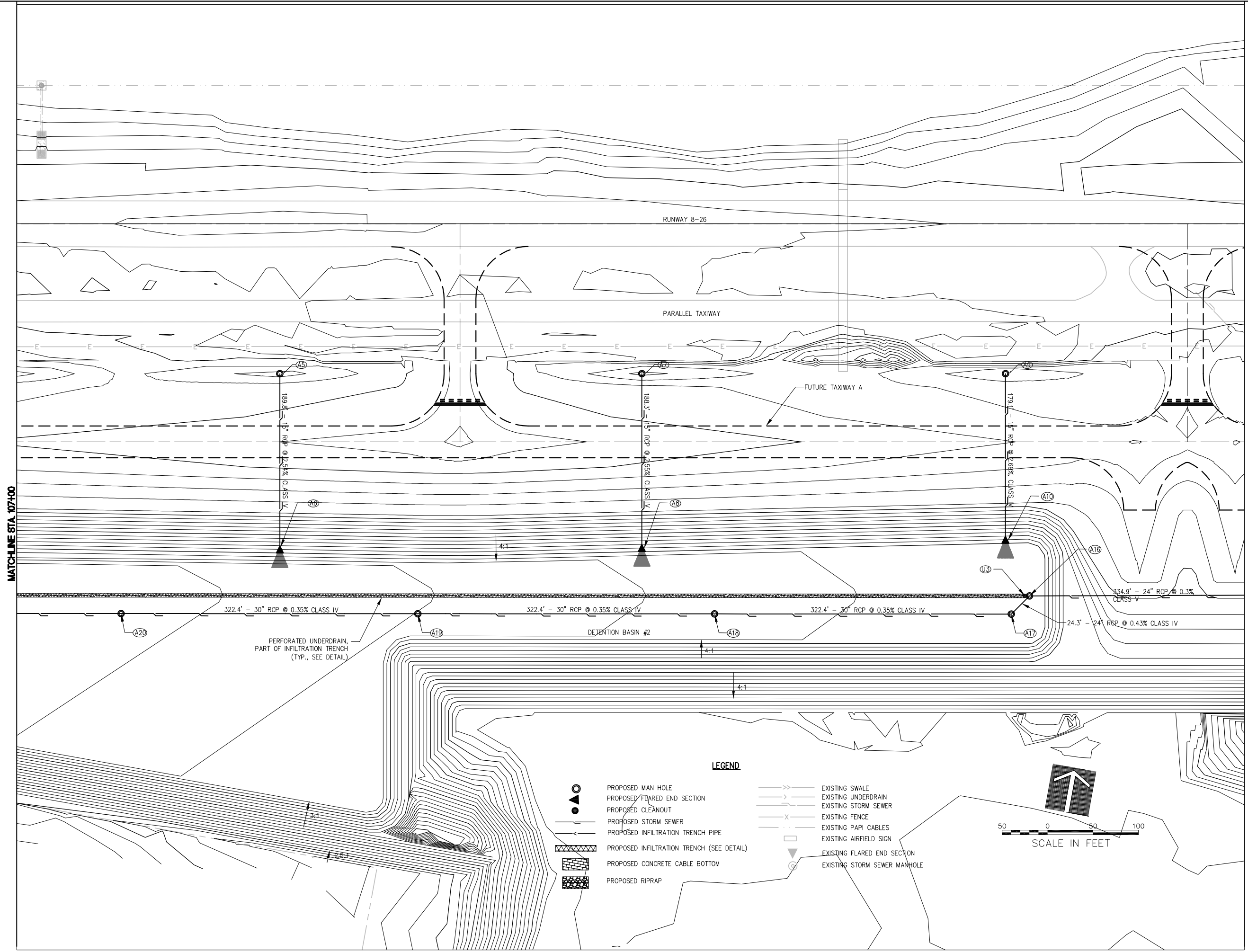
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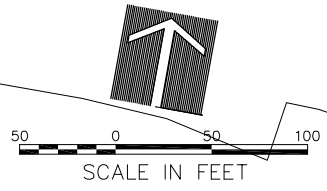
Revision No.	Description	Drawn	Checked	Reviewed	Date
08A0150	137-DRAINAGE PLAN.DWG	LDH	SJM	RMH	7/26/09
					7/27/09
					8/7/09

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**DRAINAGE PLAN**  
 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



- LEGEND**
- PROPOSED MAN HOLE
  - ▬ PROPOSED FLARED END SECTION
  - PROPOSED CLEANOUT
  - ▬ PROPOSED STORM SEWER
  - ▬ PROPOSED INFILTRATION TRENCH PIPE
  - ▬ PROPOSED INFILTRATION TRENCH (SEE DETAIL)
  - ▬ PROPOSED CONCRETE CABLE BOTTOM
  - ▬ PROPOSED RIPRAP
  - ▬ EXISTING SWALE
  - ▬ EXISTING UNDERDRAIN
  - ▬ EXISTING STORM SEWER
  - ▬ EXISTING FENCE
  - ▬ EXISTING PAPI CABLES
  - ▬ EXISTING AIRFIELD SIGN
  - ▬ EXISTING FLARED END SECTION
  - EXISTING STORM SEWER MANHOLE



DATE	REVISION

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Revision No.	Description	Drawn	Reviewed	Date
08A0150	138-DRAINAGE PLAN.DWG	LDH	RMH	AUGUST 14, 2009
1	1"=50'	SJM	RMH	7/27/09
2				7/26/09

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**DRAINAGE PLAN**

**CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

RUNWAY 8-26

26

PARALLEL TAXIWAY

FUTURE TAXIWAY A

ADJUST RIM ELEVATION

PAVED DITCH P.C.  
N - 2017809.35  
E - 988017.92  
END PAVED DITCH  
E - 988013.91

PAVED DITCH P.T.  
N - 2017818.23  
E - 988028.76

PAVED DITCH P.C.  
N - 2017832.32  
E - 988052.00

PAVED DITCH P.T.  
START PAVED DITCH  
N - 2017835.65  
E - 988057.49

OUTLET WEIR,  
(DETENTION #1, SEE DETAIL)  
N - 2017598.52  
E - 987378.37

DETENTION BASIN #1

PERFORATED UNDERDRAIN,  
PART OF INFILTRATION TRENCH  
(TYP., SEE DETAIL)

RADIUS CENTER  
N - 2017775.48  
E - 988064.70

RADIUS CENTER  
N - 2017811.77  
E - 988066.30

MATCHLINE STA. 120+50

- PROPOSED MAN HOLE
- PROPOSED FLARED END SECTION
- PROPOSED CLEANOUT
- PROPOSED STORM SEWER
- PROPOSED INFILTRATION TRENCH PIPE
- XXXXXX PROPOSED INFILTRATION TRENCH (SEE DETAIL)
- XXXXXX PROPOSED CONCRETE CABLE BOTTOM
- XXXXXX PROPOSED RIPRAP

LEGEND

- EXISTING SWALE
- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING FENCE
- EXISTING PAPI CABLES
- EXISTING AIRFIELD SIGN
- EXISTING FLARED END SECTION
- EXISTING STORM SEWER MANHOLE



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Hanson No. 08A0150  
Filename: 139-DRAINAGE PLAN.DWG  
Scale: 1"=50'  
Date: AUGUST 14, 2009

LAYOUT	LDH	7/26/09
DRAWN	SJM	7/27/09
REVIEWED	RMH	8/7/09

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815 Commerce Drive Suite 200  
Oak Brook, Illinois 60523

DRAINAGE PLAN

CONSTRUCT PARALLEL TAXIWAY A,  
STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877  
AIP No. 3-17-0112-B12

FRAME AND LID DATA

Structure Number	Structure Type	Diameter "D" (in.)	Frame Height "X" (in.)	Hole Opening "L" (in.)	Frame Type (East Jordan)	Cover/Grate (East Jordan)
A1	Manhole	48	8.5	36	1585	Type M
A3	Manhole	48	8.5	36	1585	Type M
A5	Manhole	48	8.5	36	1585	Type M
A7	Manhole	48	8.5	36	1585	Type M
A9	Manhole	48	8.5	36	1585	Type M
A11	Manhole	48	8.5	36	1585	Type M
A13	Manhole	48	8.5	36	1585	Type M
A16	Manhole	60	8.5	36	1585	Closed
A17	Manhole	60	8.5	36	1585	Closed
A18	Manhole	60	8.5	36	1585	Closed
A19	Manhole	60	8.5	36	1585	Closed
A20	Manhole	60	8.5	36	1585	Closed
A21	Manhole	60	8.5	36	1585	Closed
A22	Manhole	60	8.5	36	1585	Closed
A23	Manhole	60	8.5	36	1585	Closed
A26	Manhole	72	8.5	36	1585	Type M
A30	Manhole	48	8.5	36	1585	Type M
A32	Manhole	108	8.5	36	1585	Type M
U2	Inlet	24	9	24	*	Type M1 Bolted
U6	Inlet	24	9	24	*	Closed, Bolted

NOTES

- ADJUST RIM ELEVATION AS NECESSARY TO MATCH PROPOSED GRADE..
- FOR CONNECTIONS TO EXISTING PIPE ENDS. EXISTING PIPE END TO BE CLEARED OUT AND CLEANED PRIOR TO PLACEMENT OF NEW PIPE.
- SEE DETAILS FOR ADDITIONAL MANHOLE AND FLARED END SECTION INFORMATION.
- ADJUSTING RINGS, 12-INCH MAX., NO MORE THAN TWO RINGS ALLOWED.
- ALL MANHOLES TO HAVE FLAT SLAB TOP, SEE DETAIL.
- COST OF CONNECTIONS TO MANHOLES, INLETS, R.C.P. AND INFILTRATION TRENCH ARE INCIDENTAL. CONNECTIONS AT MANHOLES/INLETS SHALL BE PRECAST WITH STRUCTURES OR CORED.
- ALL FRAMES AND ADJUSTING RINGS SHALL BE MORTARED.
- ALL MANHOLE AND INLET STRUCTURES TO BE PRECAST.
- BOLTS AND WASHERS FOR BOLTED ASSEMBLIES SHALL BE STAINLESS STEEL.

\* 1020 GRATE WITH 1050 Z1 FRAME, BOLTED ASSEMBLY

NOTE  
MANHOLES AND INLETS ARE LOCATED TO THE C OF THE FRAME AND GRATE. THE CONTRACTOR IS RESPONSIBLE FOR FABRICATING AND OFFSETTING THE STRUCTURES AS NEEDED TO ALLOW FOR PROPER PLACEMENT OF THE FRAME AND GRATE.

STORM SEWER SCHEDULE

LK007

Structure	Northing	Easting	Type	Diameter	Rim El.	Invert El.	Pay Length	Size	Type	Slope %
A1	2017505.62	985506.34	MH	18	879.72	872.00				
A2	2017327.36	985582.51	FES	18	--	870.00	186.4	18.0	RCP	1.03
A3	2017566.93	985843.82	MH	15	880.35	873.00				
A4	2017378.15	985878.12	FES	15	--	870.00	184.4	15.0	RCP	1.56
A5	2017628.24	986181.29	MH	15	882.50	875.00				
A6	2017934.15	986216.56	FES	15	--	870.00	189.8	15.0	RCP	2.54
A7	2017699.42	986573.10	MH	15	881.70	875.00				
A8	2017506.85	986608.08	FES	15	--	870.00	188.3	15.0	RCP	2.55
A9	2017770.92	986966.50	MH	15	881.10	875.03				
A10	2017587.31	987000.01	FES	15	--	870.00	179.1	15.0	RCP	2.69
A11	2017840.18	987347.91	MH	18	880.80	877.00				
A12	2017678.42	987377.30	FES	18	--	875.00	156.9	18.0	RCP	1.22
A13	2017907.22	987716.87	MH	18	880.80	877.00				
A14	2017740.83	987747.10	FES	18	--	875.00	161.6	18.0	RCP	1.18
A15	2017597.5	987373.47	FES	24	--	866.75	335.0	24.0	RCP	0.30
A16	2017535.13	987036.33	MH	24	869.93	865.72	24.3	24.0	RCP	0.43
A17	2017511.88	987020.21	MH	30	869.94	865.60	322.4	30.0	RCP	0.35
A18	2017453.73	986699.03	MH	30	868.43	864.41	322.4	30.0	RCP	0.35
A19	2017395.58	986377.85	MH	30	867.10	863.28	322.4	30.0	RCP	0.35
A20	2017337.42	986056.68	MH	30	865.92	862.11	322.4	30.0	RCP	0.35
A21	2017279.27	985735.50	MH	30	864.74	860.95	322.4	30.0	RCP	0.35
A22	2017221.01	985413.71	MH	30	863.45	859.80	323.0	30.0	RCP	0.35
A23	2017221.93	985255.50	MH	30	862.81	859.24	154.3	30.0	RCP	0.35
A24	2017221.75	985185.48	CONCRETE END SECTION	30	--	859.00	68.0	30.0	RCP	0.35
A25	2017242.12	985147.06	FES	18	--	887.48				
A26	2017374.84	985097.00	MH	18	882.00	857.05	133.5	18.0	RCP	0.30
A27	2017330.56	984853.25	FES	18	--	856.31	239.5	18.0	RCP	0.30
A28	2017867.87	987960.66	Remove Existing FES	42	--	870.25	113.3	42.0	RCP	0.60
A29	2017754.67	987964.95	FES	42	--	869.65				
A30	2017881.25	988210.64	MH	12	886.00	881.45				
A31	2017835.65	988057.49	FES	12	--	880.65	152.3	12.0	RCP	0.50
A32	2017965.15	987957.13	MH	108	883.10	Existing				

REVISION  
DATE

VILLAGE OF LAKE IN THE HILLS  
600 Harvest Gate  
Lake in the Hills, Illinois 60156 Telephone:  
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Fax: 847.960.7515



Hanson No. 08A0150  
Filename 140-DRAINAGE SCHEDULE\_4PT  
Scale 1"=50'  
Date AUGUST 14, 2009

LAYOUT	SJM	7/26/09
DRAWN	SJM	7/27/09
REVIEWED	RMH	8/7/09

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DRAINAGE SCHEDULE  
CONSTRUCT PARALLEL TAXWAY A,  
STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12

AUG 18, 2009 8:18 AM BLAND1219  
I:\08\085\00841\08A0150\DRAWINGS\SHEETS\140-DRAINAGE SCHEDULE\_4PT.DWG

**CAST-IN-PLACE CONCRETE:** ALL CONCRETE SHALL BE AIR-ENTRAINED CONTAINING NOT LESS THAN 5 PERCENT AND NO MORE THAN 8 PERCENT AIR BY VOLUME.

CONCRETE SHALL BE ITEM 610 (CLASS SI) WITH AN ULTIMATE COMPRESSIVE STRENGTH OF NOT LESS THAN 3500 PSI IN 14 DAYS. MAXIMUM SIZE OF COURSE AGGREGATE SHALL BE ONE INCH. THE MINIMUM CONCRETE COVER ON REINFORCEMENT SHALL BE TWO INCHES UNLESS INDICATED OTHERWISE. EXPOSED CONCRETE EDGES SHALL BE BEVELED 3/4".

KEYED CONSTRUCTION JOINTS SHALL BE ABRASIVE BLAST CLEANED TO EXPOSE AGGREGATE. THESE SURFACES SHALL BE DAMPENED BEFORE ADDITIONAL CONCRETE IS PLACED. NO ADDITIONAL CONSTRUCTION JOINTS SHALL BE INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

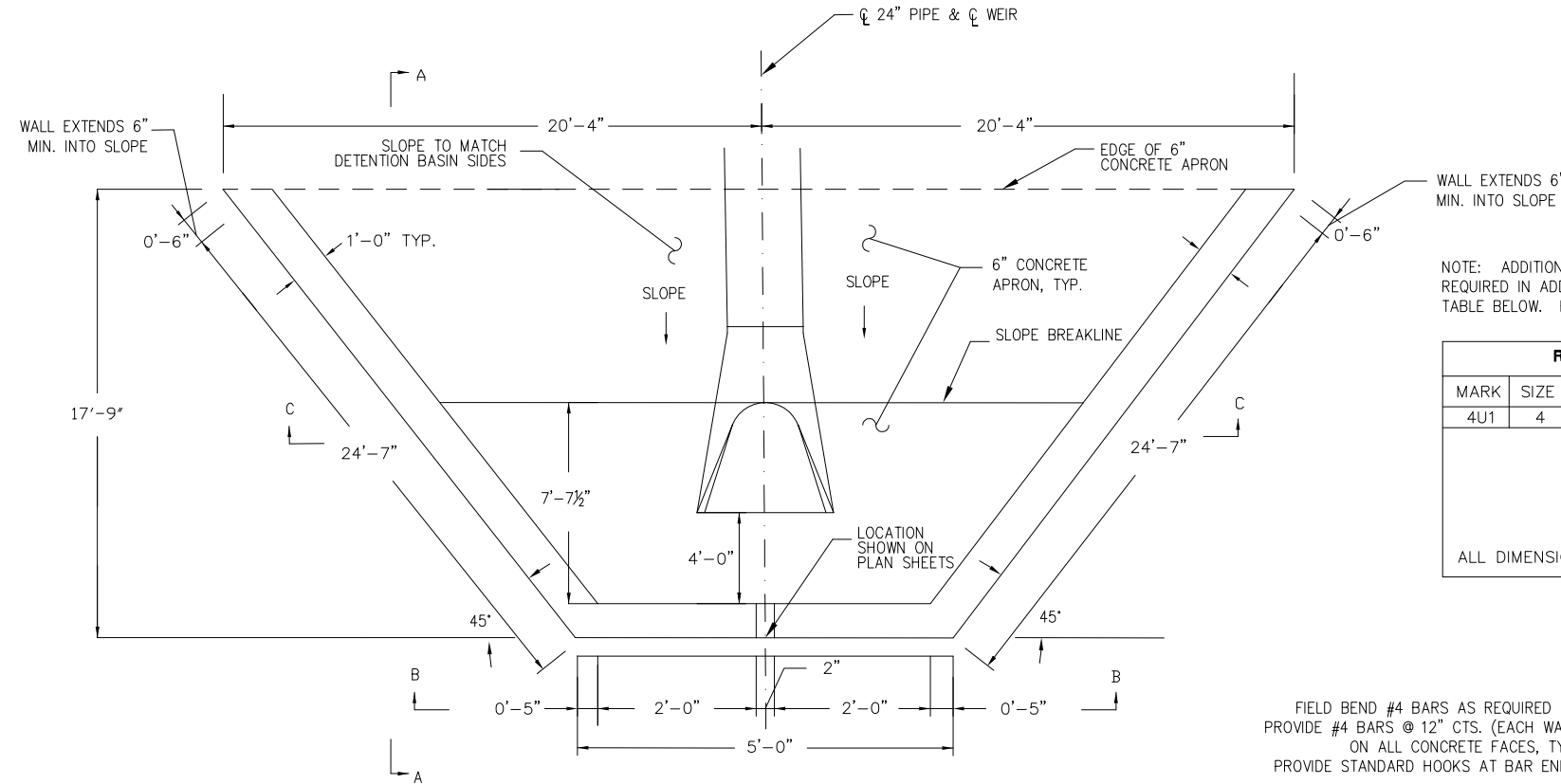
PRIOR TO PLACING CONCRETE, THE SUBGRADE SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR.

**REINFORCEMENT:** UNLESS NOTED OTHERWISE, STEEL BARS FOR REINFORCEMENT SHALL BE DEFORMED BILLET-STEEL BARS CONFORMING TO THE REQUIREMENTS OF THE CURRENT ASTM DESIGNATION: A615, GRADE 60 OR A706.

FABRICATION OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE CURRENT C.R.S.I. MANUAL OF STANDARD PRACTICE. THE REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL JOINTS.

REINFORCEMENT WIRE BAR SUPPORTS THAT ARE IN CONTACT WITH FORMS SHALL BE CLASS 1, PLASTIC PROTECTED, IN ACCORDANCE WITH CHAPTER 3 OF THE CURRENT C.R.S.I. MANUAL OF STANDARD PRACTICE.

**PAYMENT:** ALL WORK FOR THIS ITEM WILL BE PAID UNDER ITEM AR800916.



**WEIR PLAN VIEW**

NOTE: IN LOCATIONS WHERE THE PIPE PASSES THROUGH THE CONCRETE APRON, 1/2" PREFORMED JOINT FILLER IS REQUIRED.

NOTE: PROVIDE #4 BARS @ 12" CTS. (EACH WAY) ON ALL CONCRETE FACES, TYP.

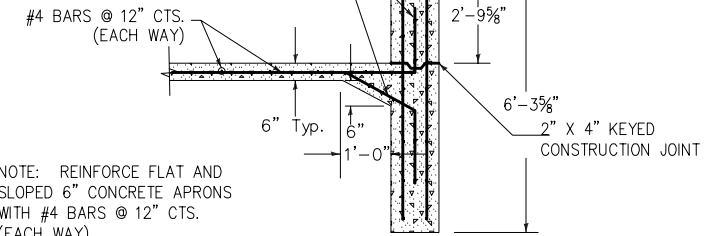
NOTE: SHIFT REINFORCEMENT AS REQUIRED TO ACCOMMODATE PIPE PLACEMENT.

NOTE: ADDITIONAL REINFORCEMENT BARS ARE REQUIRED IN ADDITION TO THOSE DETAILED IN THE TABLE BELOW. FIELD TRIM 4U1 BARS AS REQUIRED.

REINFORCING BENDING DETAILS					
MARK	SIZE	TYPE	A	B	LENGTH
4U1	4	U	8"	6'-11"	14'-6"

ALL DIMENSIONS ARE OUT-TO-OUT OF BARS

FIELD BEND #4 BARS AS REQUIRED TO PROVIDE #4 BARS @ 12" CTS. (EACH WAY) ON ALL CONCRETE FACES, TYP. PROVIDE STANDARD HOOKS AT BAR ENDS

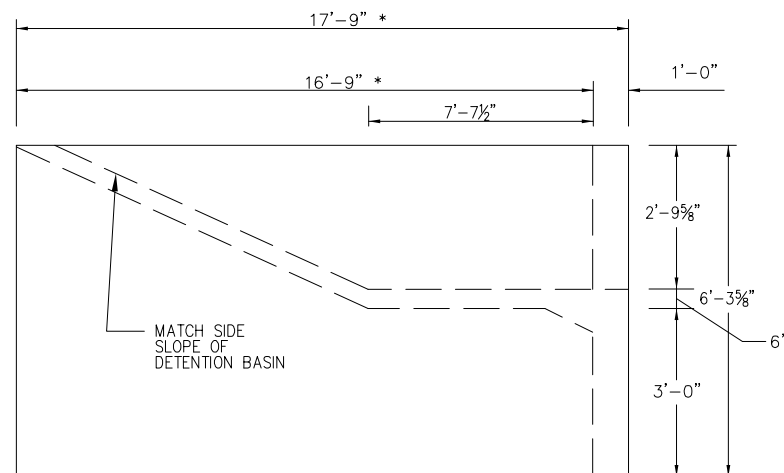


**WEIR FRONT AND SIDE WALL**

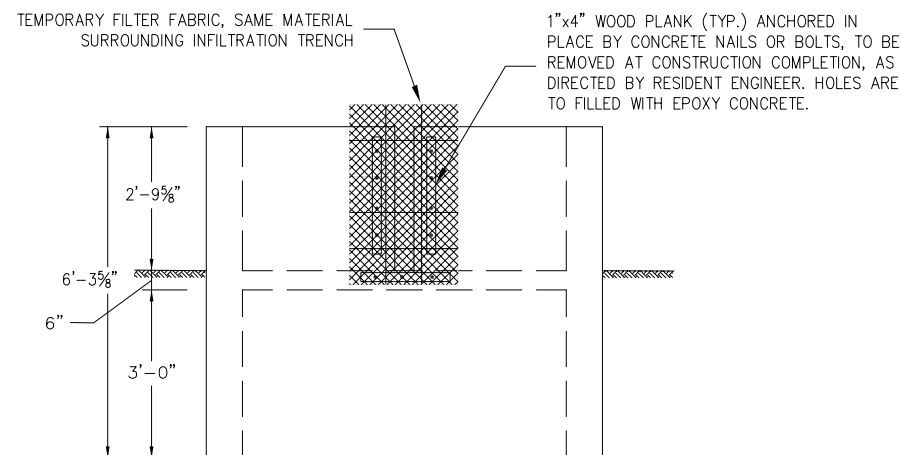
NOTE: REINFORCE FLAT AND SLOPED 6" CONCRETE APRONS WITH #4 BARS @ 12" CTS. (EACH WAY)

**ATTENTION - UTILITY NOTE**

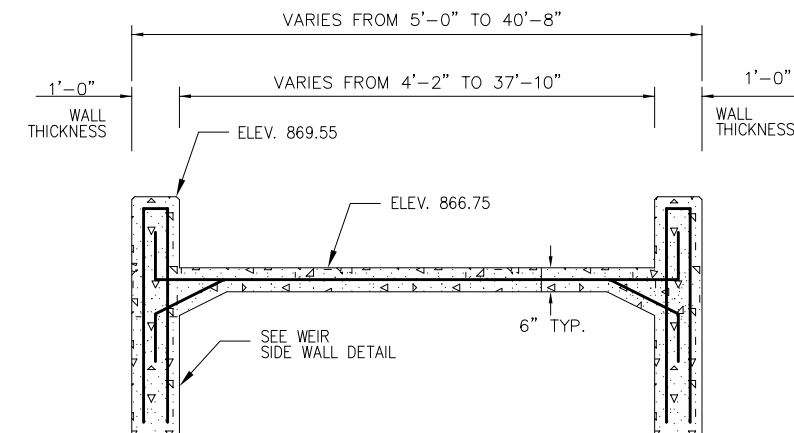
THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



**SIDE VIEW A-A**



**VIEW B-B - FRONT FACE**  
(FLARED WALLS OMITTED FOR CLARITY)



**WEIR CROSS SECTION AT C-C**  
(OUTLET PIPE OMITTED FOR CLARITY)

AUG 18, 2009 7:04 AM BLAND1219 I:\08\08S\00841\08A0150\DRAWINGS\SHEETS\141-WEIR DETAILS D-1.DWG

REVISION	DATE

**VILLAGE OF LAKE IN THE HILLS**  
600 Harvest Gate  
Lake in the Hills, Illinois 60156 Telephone:  
847.960.7410  
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Hanson No. 08A0150	Scale	Date	LAYOUT	SJM	7/21/09
Filename 141-WEIR DETAILS D-1.DWG	Scale	Date	DRAWN	SJM	7/27/09
Scale	Date		REVIEWED	RMH	8/7/09

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**OUTLET WEIR #1 DETAILS DETENTION BASIN #1**  
CONSTRUCT PARALLEL TAXWAY A,  
STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12

**CAST-IN-PLACE CONCRETE:** ALL CONCRETE SHALL BE AIR-ENTRAINED CONTAINING NOT LESS THAN 5 PERCENT AND NO MORE THAN 8 PERCENT AIR BY VOLUME.

CONCRETE SHALL BE ITEM 610 (CLASS SI) WITH AN ULTIMATE COMPRESSIVE STRENGTH OF NOT LESS THAN 3500 PSI IN 14 DAYS. MAXIMUM SIZE OF COURSE AGGREGATE SHALL BE ONE INCH. THE MINIMUM CONCRETE COVER ON REINFORCEMENT SHALL BE TWO INCHES UNLESS INDICATED OTHERWISE. EXPOSED CONCRETE EDGES SHALL BE BEVELED 3/4".

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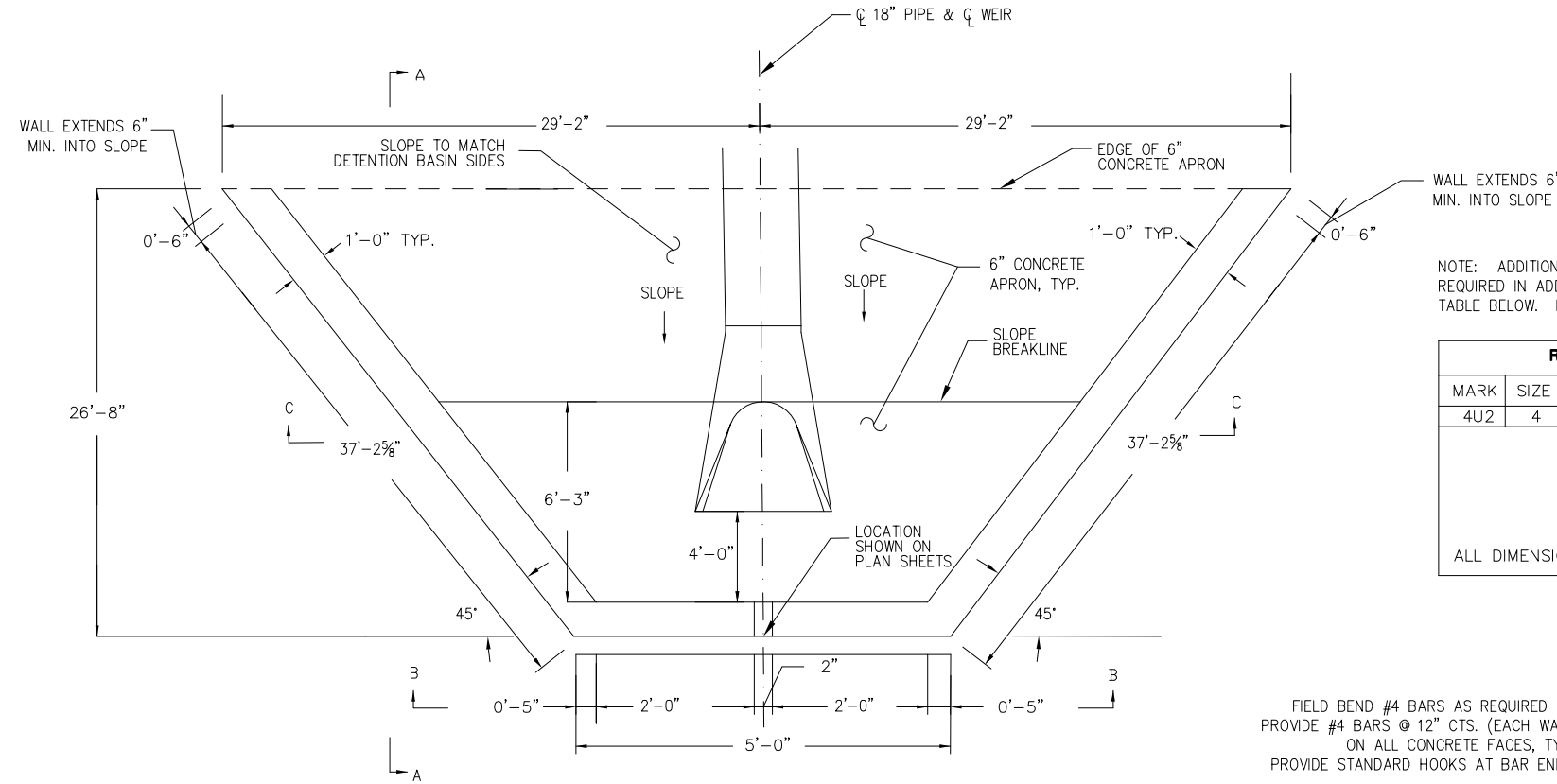
PRIOR TO PLACING CONCRETE, THE SUBGRADE SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR.

**REINFORCEMENT:** UNLESS NOTED OTHERWISE, STEEL BARS FOR REINFORCEMENT SHALL BE DEFORMED BILLET-STEEL BARS CONFORMING TO THE REQUIREMENTS OF THE CURRENT ASTM DESIGNATION: A615, GRADE 60 OR A706.

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REINFORCEMENT WIRE BAR SUPPORTS THAT ARE IN CONTACT WITH FORMS SHALL BE CLASS 1, PLASTIC PROTECTED, IN ACCORDANCE WITH CHAPTER 3 OF THE CURRENT C.R.S.I. MANUAL OF STANDARD PRACTICE.

**PAYMENT:** ALL WORK FOR THIS ITEM WILL BE PAID UNDER ITEM AR800917.



**WEIR PLAN VIEW**

NOTE: IN LOCATIONS WHERE THE PIPE PASSES THROUGH THE CONCRETE APRON, 1/2" PREFORMED JOINT FILLER IS REQUIRED.

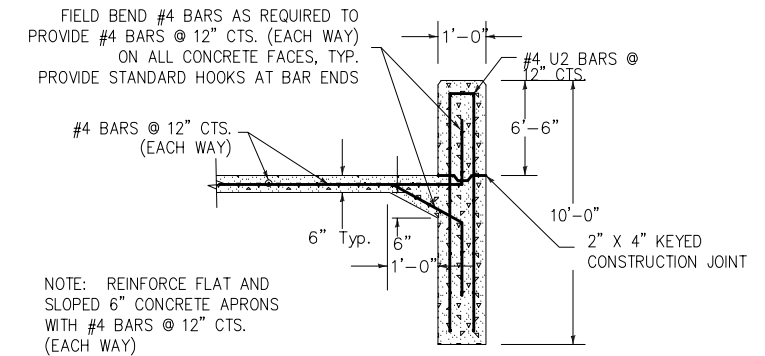
NOTE: PROVIDE #4 BARS @ 12" CTS. (EACH WAY) ON ALL CONCRETE FACES, TYP.

NOTE: SHIFT REINFORCEMENT AS REQUIRED TO ACCOMMODATE PIPE PLACEMENT.

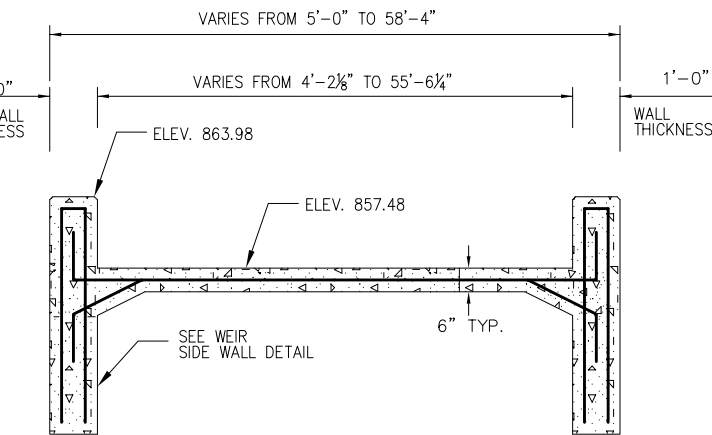
NOTE: ADDITIONAL REINFORCEMENT BARS ARE REQUIRED IN ADDITION TO THOSE DETAILED IN THE TABLE BELOW. FIELD TRIM 4U2 BARS AS REQUIRED.

REINFORCING BENDING DETAILS					
MARK	SIZE	TYPE	A	B	LENGTH
4U2	4	U	8"	9'-8"	20'-0"

ALL DIMENSIONS ARE OUT-TO-OUT OF BARS



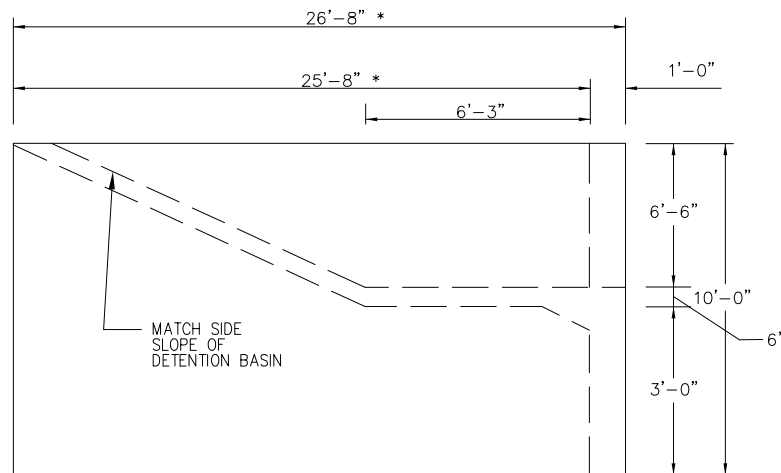
**WEIR FRONT AND SIDE WALL**



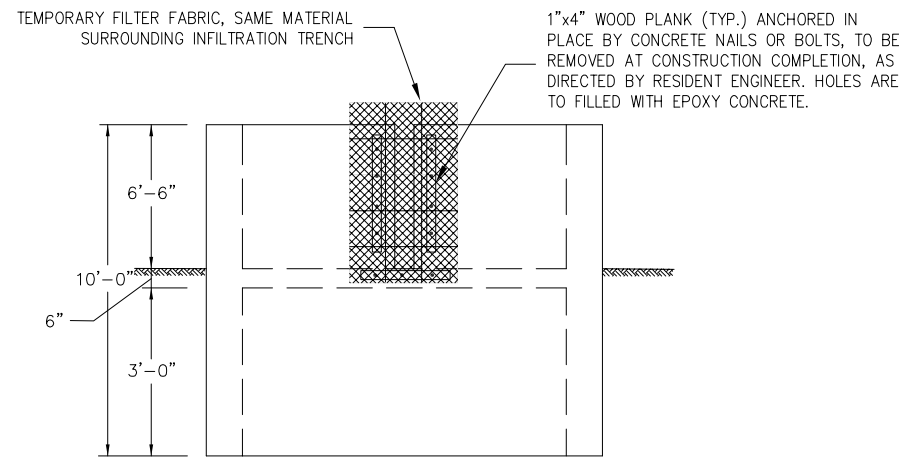
**WEIR CROSS SECTION AT C-C**  
(OUTLET PIPE OMITTED FOR CLARITY)

**ATTENTION - UTILITY NOTE**

THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



**SIDE VIEW A-A**



**VIEW B-B - FRONT FACE**  
(FLARED WALLS OMITTED FOR CLARITY)

AUG 18, 2009 7:04 AM BLAND1219 I:\08\08S\00841\08A0150\DRAWINGS\SHEETS\142-WEIR DETAILS D-2.DWG

REVISION	DATE

**VILLAGE OF LAKE IN THE HILLS**  
600 Harvest Gate  
Lake in the Hills, Illinois 60156 Telephone:  
847.960.7410  
Fax: 847.960.7515

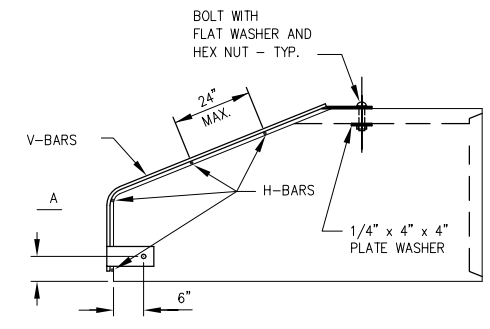
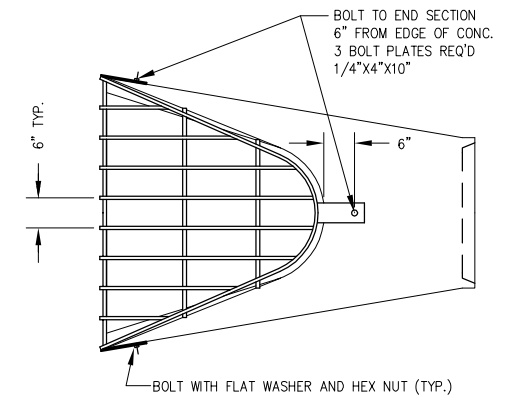


Hanson No. 08A0150	Scale	Date	LAYOUT	SJM	7/21/09
Filename 142-WEIR DETAILS D-2.DWG	Scale	Date	DRAWN	SJM	7/27/09
			REVIEWED	RMH	8/7/09

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Oak Brook, Illinois 60523

**OUTLET WEIR #2 DETAILS**  
DETENTION BASIN #2  
CONSTRUCT PARALLEL TAXWAY A,  
STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12

DIA. INCHES	V-BAR SIZE	H-BAR SIZE	No. OF H-BARS REQ'D.	BOLT DIA.	"A" DIM. INCHES
12	1/2φ	5/8φ	3	1/2	4
15	1/2φ	5/8φ	3	1/2	4 1/2
18	1/2φ	5/8φ	4	1/2	4 1/2
21	1/2φ	5/8φ	4	1/2	5
24	5/8φ	3/4φ	4	1/2	5
27	5/8φ	3/4φ	4	1/2	5 1/2
30	5/8φ	3/4φ	4	1/2	5 1/2
36	3/4φ	1φ	4	3/4	8
42	3/4φ	1φ	4	3/4	8
48	3/4φ	1φ	5	3/4	8
54	3/4φ	1-1/2 PIPE	5	3/4	8
24 X 38 ELLIPTICAL	3/4φ	1φ	5	3/4	8

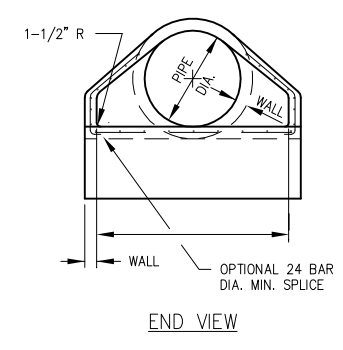


- NOTES**
- BARS AND PLATES ARE HOT ROLLED STEEL.
  - BARS, PLATES, PIPE AND BOLTS ARE GALVANIZED.

**GRATING FOR FLARED END SECTION**

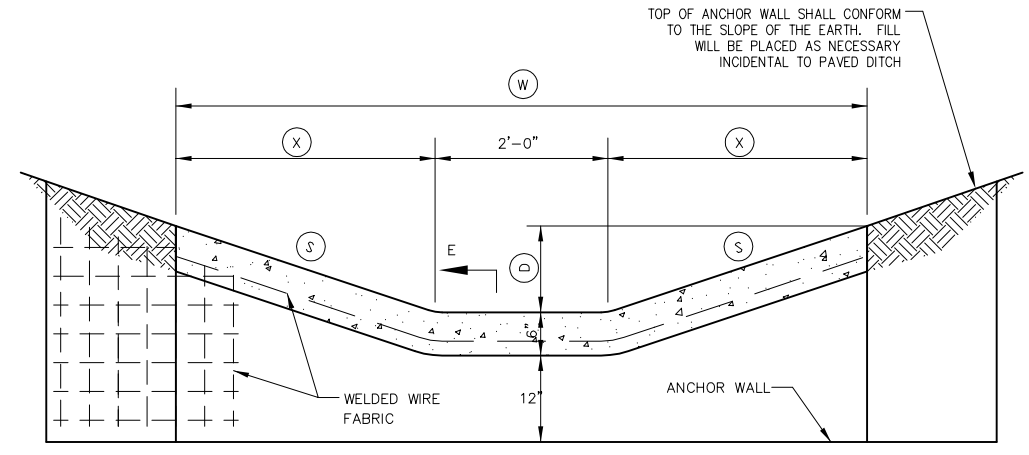
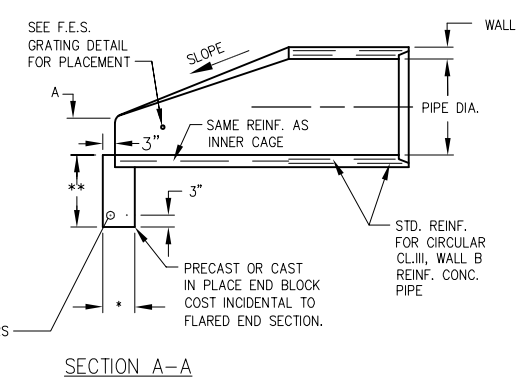
PIPE DIA.	WALL	A	B	C	D	E	R	SLOPE
12"	2"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	9"	3:1
15"	2 1/4"	6"	2'-3"	3'-10"	6'-1"	2'-6"	11"	3:1
18"	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	12"	3:1
21"	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	13"	3:1
24"	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	14"	3:1
27"	3 1/4"	10 1/2"	4'-0"	2'-1 1/2"	6'-1 1/2"	4'-6"	14 1/2"	3:1
30"	3 1/2"	1'-0"	4'-6 1/2"	1'-7 3/4"	6'-1 3/4"	5'-0"	15"	3:1
33"	3 3/4"	1'-1 1/2"	4'-10 1/2"	3'-3 1/4"	8'-1 3/4"	5'-6"	17 1/2"	3:1
36"	4"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	20"	3:1
42"	4 1/2"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	22"	3:1
48"	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	22"	3:1
54"	5 1/2"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	24"	2.4:1

- NOTES**
- GRATING SHALL BE PAID FOR UNDER ITEM AR752518.
  - THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 502.10 OF IDOT SPECIFICATIONS, WITH COST INCIDENTAL TO FLARED END SECTION.
  - PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS III, WALL B REINFORCED CONCRETE PIPE.
  - MODIFICATION IS DUE TO THE RELOCATION OF THE CONNECTION POINT BETWEEN THE GRATE AND THE FLARED END SECTION.



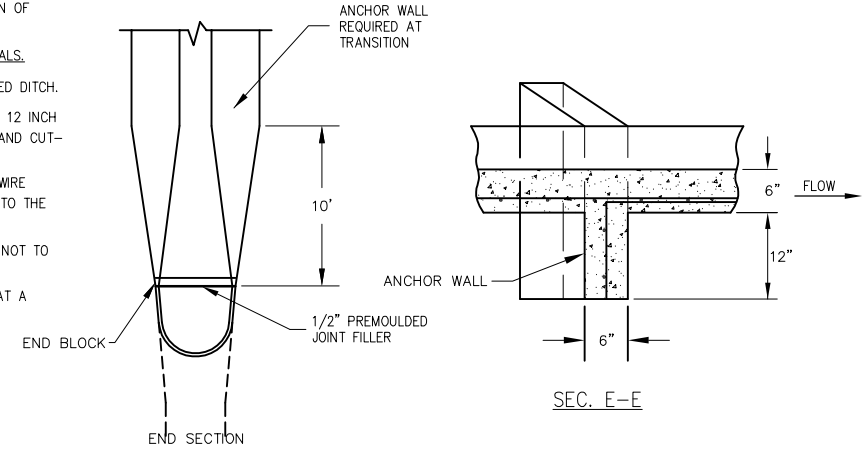
- \* 8" - 36" DIA. PIPE OR LESS
- 10" - GREATER THAN 36" DIA. PIPE
- \*\* 18" - 36" DIA. PIPE OR LESS
- 24" - GREATER THAN 36" DIA. PIPE

**PRECAST CONCRETE FLARED END SECTION (IDOT STANDARD 542301-MODIFIED)**

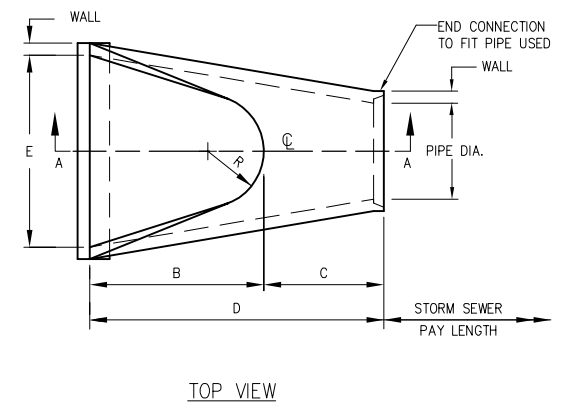


TYPE	D	W	X	S
A-15	6"	5'-0"	1'-6"	1:3

- NOTES**
- ITEM 610 PC CONCRETE SHALL BE USED THROUGHOUT.
  - WELDED WIRE FABRIC SHALL BE 6"x6" MESH, #4 GAGE, 58 LBS. PER 100 SQ. FT., CONFORMING TO THE REQUIREMENTS OF AASHTO M-55.
  - 1/2 INCH PREMOULDED JOINT FILLER SHALL BE PLACED AT THE JUNCTION OF PAVED DITCH WITH ANY OTHER STRUCTURE.
  - ANCHOR WALLS SHALL BE SPACED AT NOT MORE THAN 50 FOOT INTERVALS.
  - ANCHOR WALLS SHALL BE CONSTRUCTED MONOLITHICALLY WITH THE PAVED DITCH.
  - AT THE OPTION OF THE CONTRACTOR, #3 REINFORCING BARS PLACED AT 12 INCH CENTERS LONGITUDINALLY IN PAVED DITCH AND VERTICALLY IN ANCHOR AND CUT-OFF WALLS MAY BE USED IN LIEU OF THE WELDED WIRE FABRIC.
  - THE COST OF FURNISHING AND PLACING THE JOINT FILLER AND WELDED WIRE FABRIC OR THE #3 REINFORCING BARS WILL BE CONSIDERED INCIDENTAL TO THE COST OF THE PAVED DITCH.
  - TOOLED OR SAWED CONTROL JOINTS ARE TO BE PLACED AT A SPACING NOT TO EXCEED 15' APART. NO SECTION IS TO BE SHORTER THAN 4'.
  - EXPANSION JOINTS WITH 1/2" PREMOULDED JOINT FILLER TO BE PLACED AT A SPACING NO GREATER THAN 75'.
  - CONSTRUCTION/CONTRACTION JOINTS AND EXPANSION JOINTS SHALL BE SEALED WITH AN IDOT-APPROVED SILICONE JOINT SEALER SUITABLE FOR THIS APPLICATION.
  - C.I.P. = CAST-IN-PLACE



**PAVED DITCH AND ANCHOR WALL (IDOT STANDARD 606401-01)**



REVISION	DATE

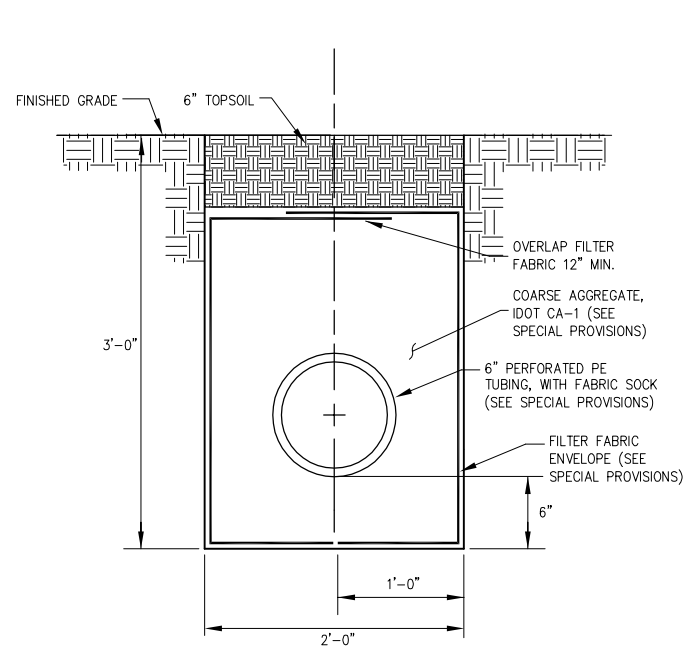
**VILLAGE OF LAKE IN THE HILLS**  
 600 Harvest Gate  
 Lake in the Hills, Illinois 60156 Telephone:  
 847.960.7410  
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Hanson No. 08A0150	Scale	Date	LAYOUT	SJM	7/21/09
Filename 143-DRAINAGE DETAILS.DWG	Scale	Date	DRAWN	SJM	7/27/09
			REVIEWED	RMH	8/7/09

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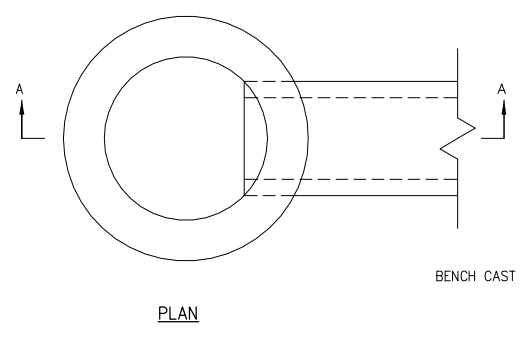
**DRAINAGE DETAILS**  
 CONSTRUCT PARALLEL TAXWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



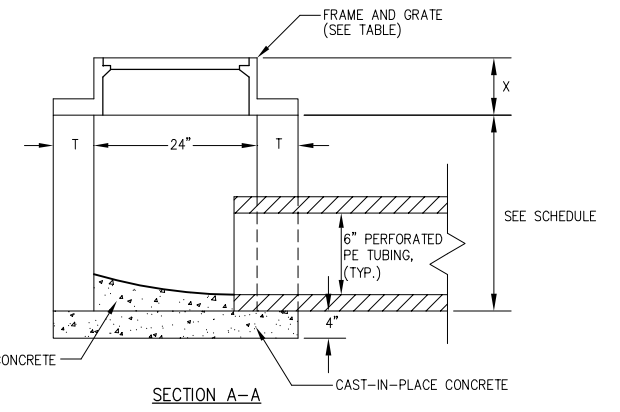
**NOTES**

1. UNSUITABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
2. COARSE AGGREGATE SHALL CONSIST OF IDOT GRADATION CA-1.
3. DO NOT COMPACT SOIL PLACED ABOVE THE COARSE AGGREGATE.
4. SEPARATE PAYMENT FOR COARSE AGGREGATE, FILTER FABRIC ENVELOPE, PE TUBING, AND FABRIC SOCK WILL NOT BE MADE BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LINEAR FOOT OF INFILTRATION TRENCH.

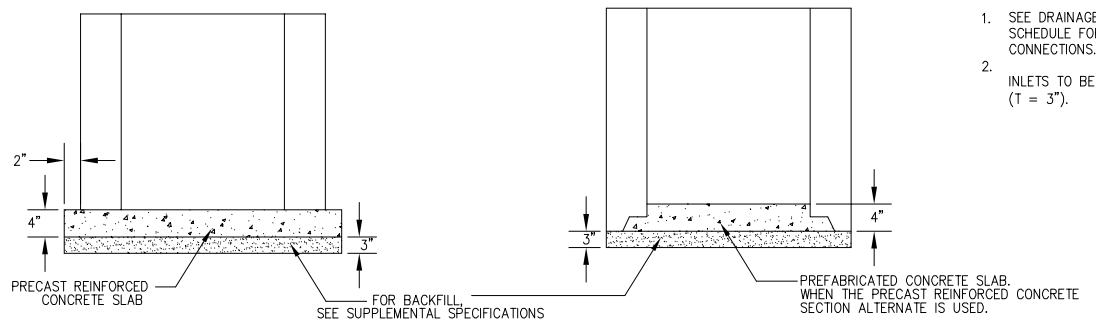
**INFILTRATION TRENCH**



PLAN



SECTION A-A



**ALTERNATE METHODS**

**INLET TYPE A**  
(IDOT STANDARD 602301)

**NOTES**

1. SEE DRAINAGE PLANS AND INFILTRATION TRENCH SCHEDULE FOR LOCATION, SIZE AND NUMBER OF PIPE CONNECTIONS.
2. INLETS TO BE PRECAST REINFORCED CONCRETE SECTIONS (T = 3").

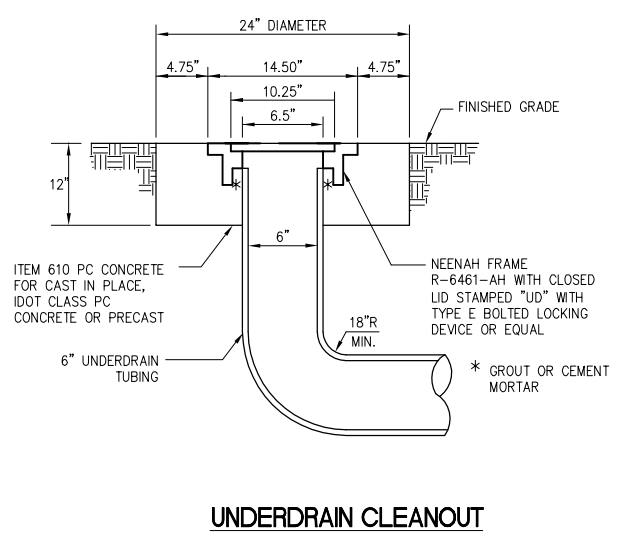
**INFILTRATION TRENCH SCHEDULE**

Structure/Point	Northing	Easting	Type	Rim El.	Invert El.	Pay Length	Slope %
U1	2017728.86	987982.62	Clean Out	869.24	866.74		
U2	2017608.50	987425.50	Inlet Connection	866.96	864.46	570.0	0.40
U3	2017534.24	987031.42	Clean Out	869.92	867.42	1561.0	0.43
U4	2017256.14	985495.47	Begin Curve	--	860.71	230.0	0.43
U5	2017241.45	985266.25	End Curve	--	859.72	11.0	0.43
U6	2017241.70	985255.48	Inlet Connection	862.00	859.59	(19.5)*	0.30
A23	2017221.93	985255.50	Manhole Connection	862.81	859.50		

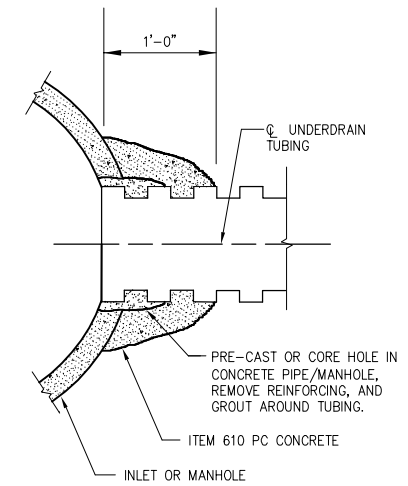
\* SEE NOTE #2

**NOTES**

1. ALL TRENCH PIPE IS TO BE PERFORATED, EXCEPT THE LENGTH BETWEEN U6 AND A23 (SEE NOTE #2).
2. PIPE BETWEEN U6 AND A23 SHALL BE PVC STORM SEWER PIPE ASTM D-3034, SDR 35. THIS PIPE SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCIDENTAL TO THE COST OF THE INFILTRATION TRENCH.



**UNDERDRAIN CLEANOUT**



**STORM SEWER CONCRETE COLLAR AND GROUT CONNECTION**

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Fax: 847.960.7515

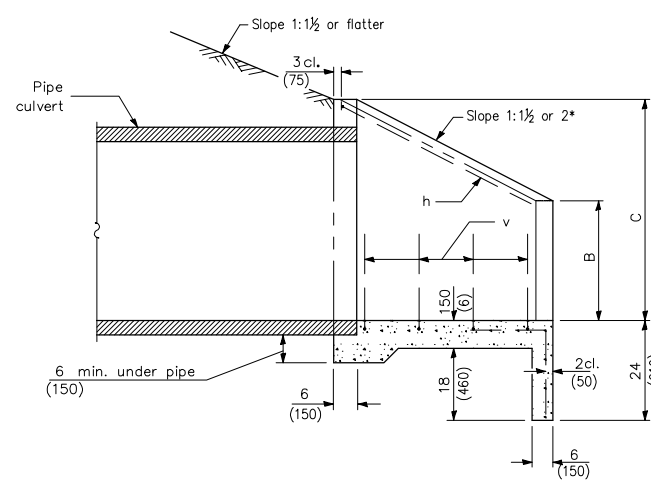


Hanson No.	08A0150
Filename	144--DRAINAGE DETAILS.DWG
Scale	AUGUST 14, 2009
Date	
LAYOUT	SJM 7/21/09
DRAWN	SJM 7/27/09
REVIEWED	RMH 8/7/09

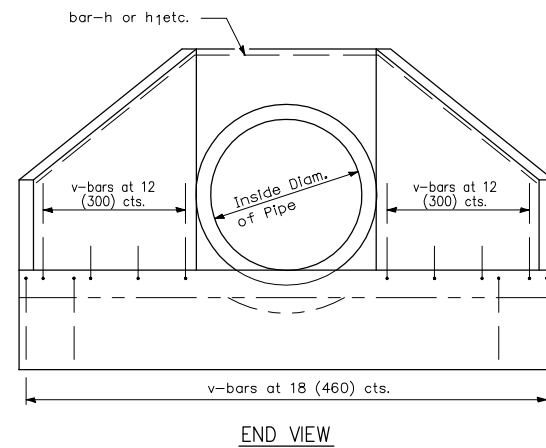
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CONSTRUCT PARALLEL TAXWAY A,  
STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12

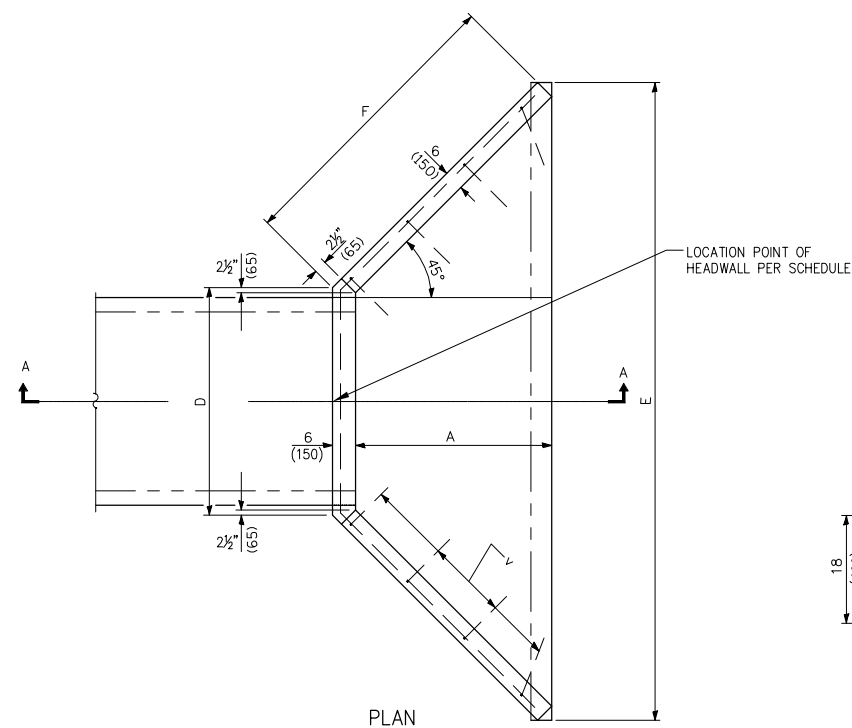




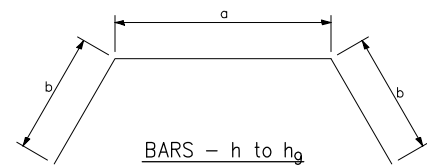
SECTION A-A



END VIEW



PLAN

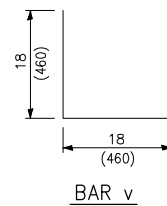


BARS - h to hg

Bend in field one required in each headwall

DIMENSIONS OF BARS-h to hg

Bar	a	b
h	22 (560)	29 1/2 (750)
h1	22 (560)	38 1/2 (980)
h2	25 (640)	29 1/2 (750)
h3	25 (640)	38 1/2 (980)
h4	33 (840)	39 (990)
h5	33 (840)	4'-1 1/2" (1.26 m)
h6	39 (990)	3'-10 1/2" (1.18 m)
h7	39 (990)	4'-10 1/2" (1.50 m)
h8	3'-11" (1.19 m)	4'-8" (1.42 m)
hg	3'-11" (1.19 m)	5'-9 1/2" (1.77 m)



BAR v

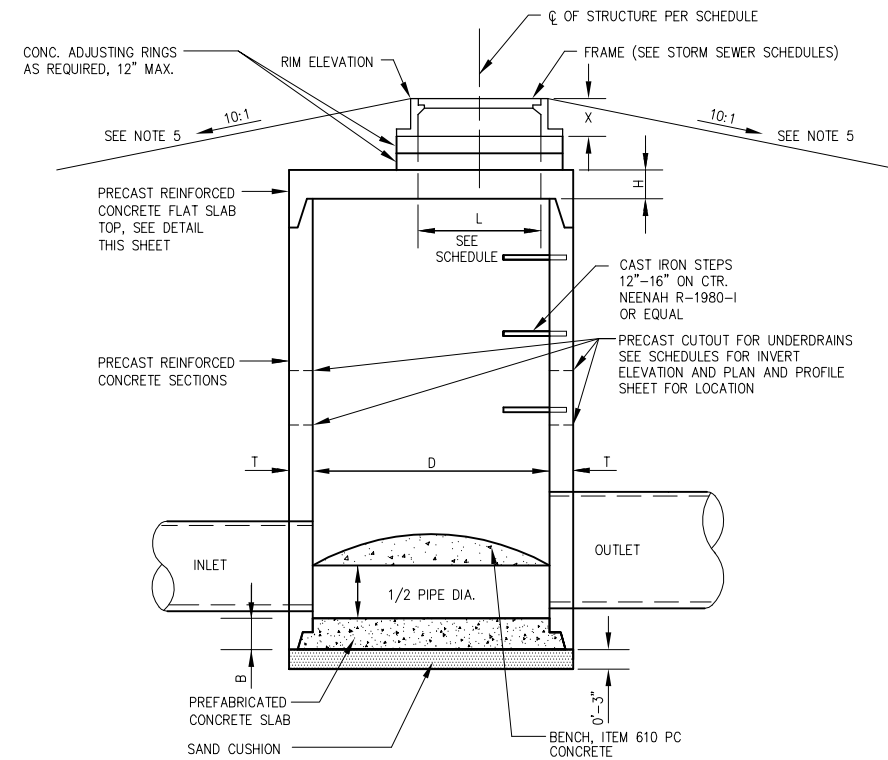
DIMENSIONS AND QUANTITIES

Design No.	Nominal Inside Dia. of Pipe	Slope of Wing Walls	Dimensions						Concrete 2 End Secs. cu. yds. (m <sup>3</sup> )	Reinforcement Bars - No. 4 (No. 13)			
			A	B	C	D	E	F		h-Bars Bar	h-Bars Length	v-Bars No.	Total Wt. 2 End Secs. lbs. (kg)
D24-2 (D600-2)	24 (600)	1:2	34 (865)	16 (410)	33 (840)	35 (890)	8'-10 1/2" (2.72 m)	4'-2 1/2" (1.29 m)	2.0 (1.5)	h5	11'-0" (3.24 m)	28	70 (31.8)

\* If embankment slope above headwall is flatter than 1:2, provide wings for 1:2 slope.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H). All dimensions are in inches (millimeters) unless otherwise shown.

**REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS**  
**15" (375 mm) THRU 36" (900 mm) DIA. AT RIGHT ANGLES WITH ROADWAY**  
 (IDOT STANDARD 542101-02)



MANHOLE DATA

**NOTES**

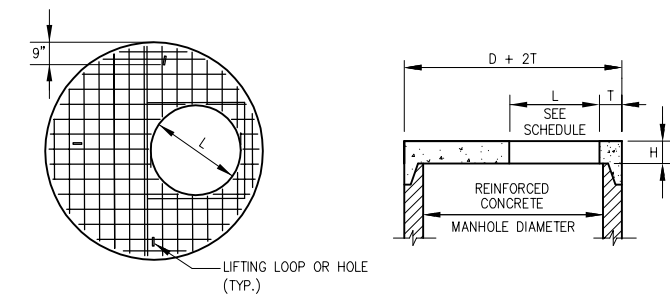
- FOR "L" DIMENSION AND FRAME AND LID INFORMATION SEE STORM SEWER SCHEDULES.
- CENTER OF FRAME TO BE USED FOR LOCATING STRUCTURE. FOR STRUCTURE LOCATIONS AND ADDITIONAL INFORMATION SEE SCHEDULE.
- ALL STRUCTURES TO BE PRECAST REINFORCED CONCRETE SECTIONS; BENCHES MAY BE CAST IN PLACE.
- BLOCKOUTS FOR UNDERDRAIN CONNECTIONS SHALL BE PRECAST INTO THE STRUCTURE.
- MANHOLE A19 - A23, RIM ELEVATIONS WILL BE ABOVE THE FINISHED GRADE. CONTRACTOR SHALL PLACE FILL AROUND THE RAISED RIM AT A SLOPE OF 10:1 UNTIL FINISHED GRADE IS MET. THE PLACEMENT OF FILL SHALL BE INCIDENTAL TO THE COST OF THE MANHOLE.
- MANHOLE A32 SHALL BE ADJUSTED 2.54' DOWN FROM EXISTING RIM ELEVATION OF 885.64. CONTRACTOR SHALL REMOVE THE FLAT SLAB TOP, SAWCUT MANHOLE, AND REINSTALL EXISTING FLAT SLAB TOP ACCORDING TO SPECIFICATIONS.

INSIDE DIA. "D" (IN.)	WALL THICKNESS "T" (IN.)	TOP THICKNESS "H" (IN.)	BOTTOM THICKNESS "B" (IN.)
48	5	6	6
60	5	8	8
72	6	8	8
108	9	8	8

**MANHOLE WITH FLAT SLAB TOP**  
 (IDOT STANDARD 602401-MODIFIED)

**NOTES**

- ADDITIONAL TOP AND BOTTOM BARS PLACED ADJACENT TO ACCESS HOLE.
- MINIMUM 1" COVER ON STEEL BARS.
- THREE LIFTING LOOPS OR HOLES.
- MINIMUM STEEL REINFORCEMENT IN EACH DIRECTION TO BE WWF 1.06 SQ. IN./FT. IN ACCORDANCE WITH AASHTO M199 AND IDOT STANDARDS.
- FOR "L" DIMENSION SEE STORM SEWER SCHEDULES.



**PRECAST REINFORCED CONCRETE FLAT SLAB TOP**  
 (IDOT STANDARD 602601)

REVISION	DATE

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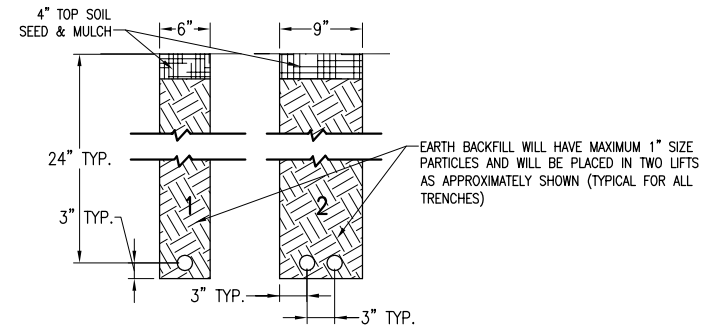
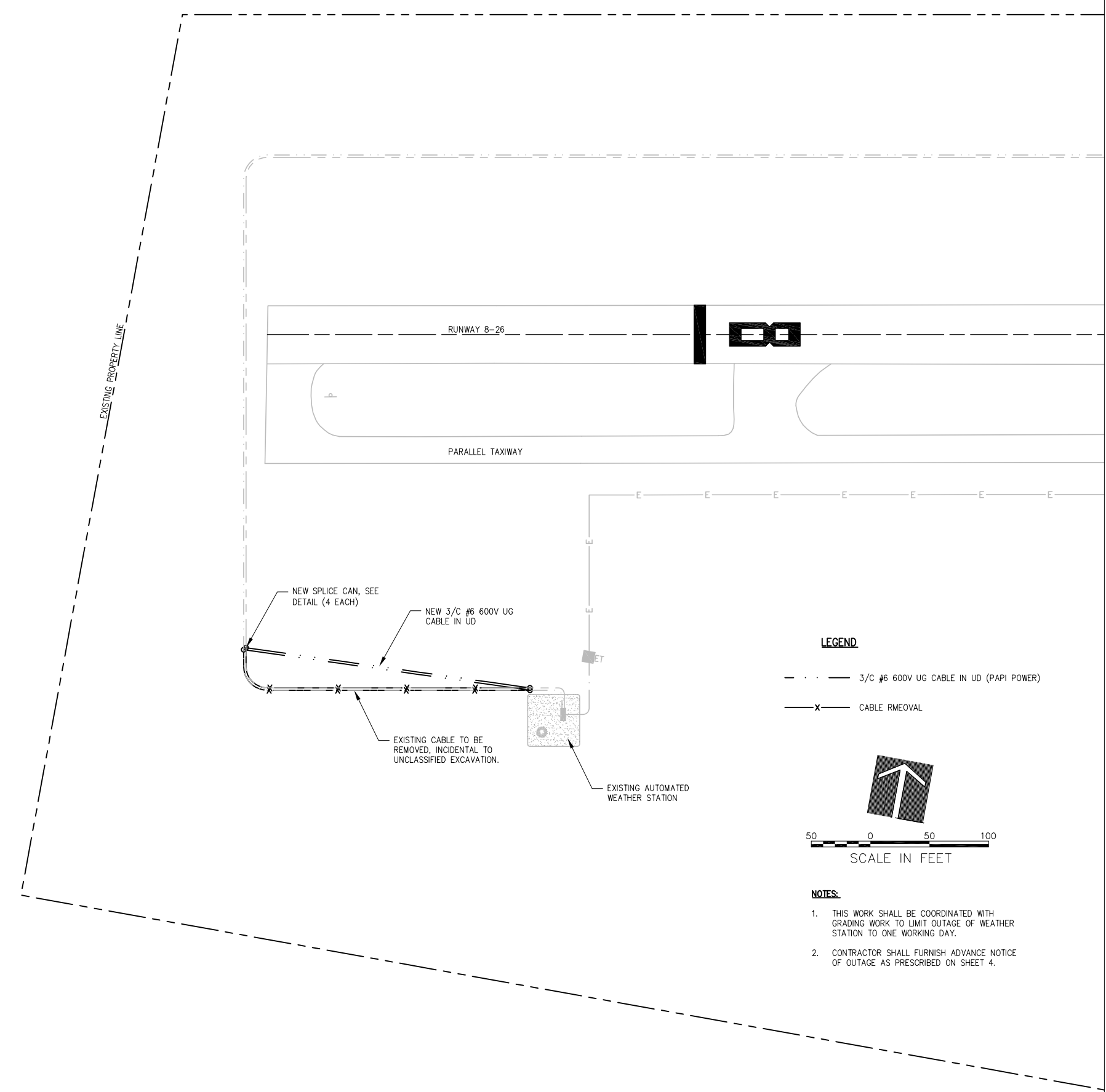


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 Filename 145-DRAINAGE DETAILS.DWG  
 Scale  
 Date AUGUST 14, 2009

LAYOUT	SJM	7/21/09
DRAWN	SJM	7/27/09
REVIEWED	RMH	8/7/09

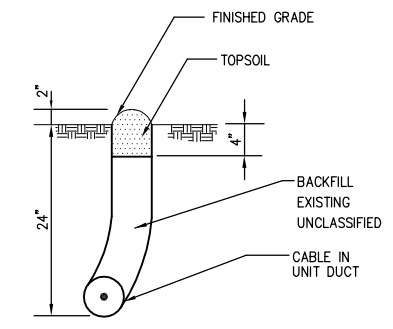
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**DRAINAGE DETAILS**  
 CONSTRUCT PARALLEL TAXWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

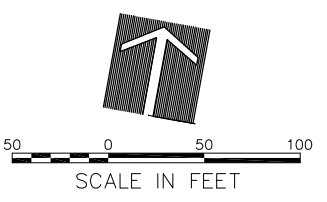
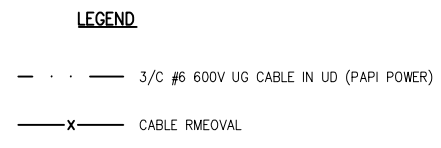


**NOTES:**  
 DETAIL NUMBERS INDICATE NO. OF CABLES OR DUCTS.  
 DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.  
 ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO TRENCH.

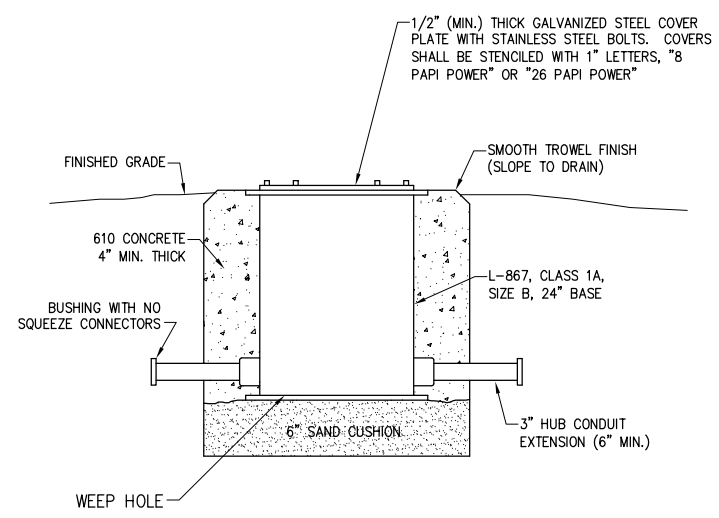
**CABLE TRENCHES**  
 (NOT TO SCALE)



**CABLE PLOWED**



- NOTES:**
- THIS WORK SHALL BE COORDINATED WITH GRADING WORK TO LIMIT OUTAGE OF WEATHER STATION TO ONE WORKING DAY.
  - CONTRACTOR SHALL FURNISH ADVANCE NOTICE OF OUTAGE AS PRESCRIBED ON SHEET 4.



**SPLICE CAN**  
 (NOT TO SCALE)

INCLUDE INTERNAL AND EXTERNAL GROUND LUGS

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REVISION	DATE

**VILLAGE OF LAKE IN THE HILLS**  
 600 Harvest Gate  
 Lake in the Hills, Illinois 60156 Telephone:  
 847.960.7410  
 Fax: 847.960.7515

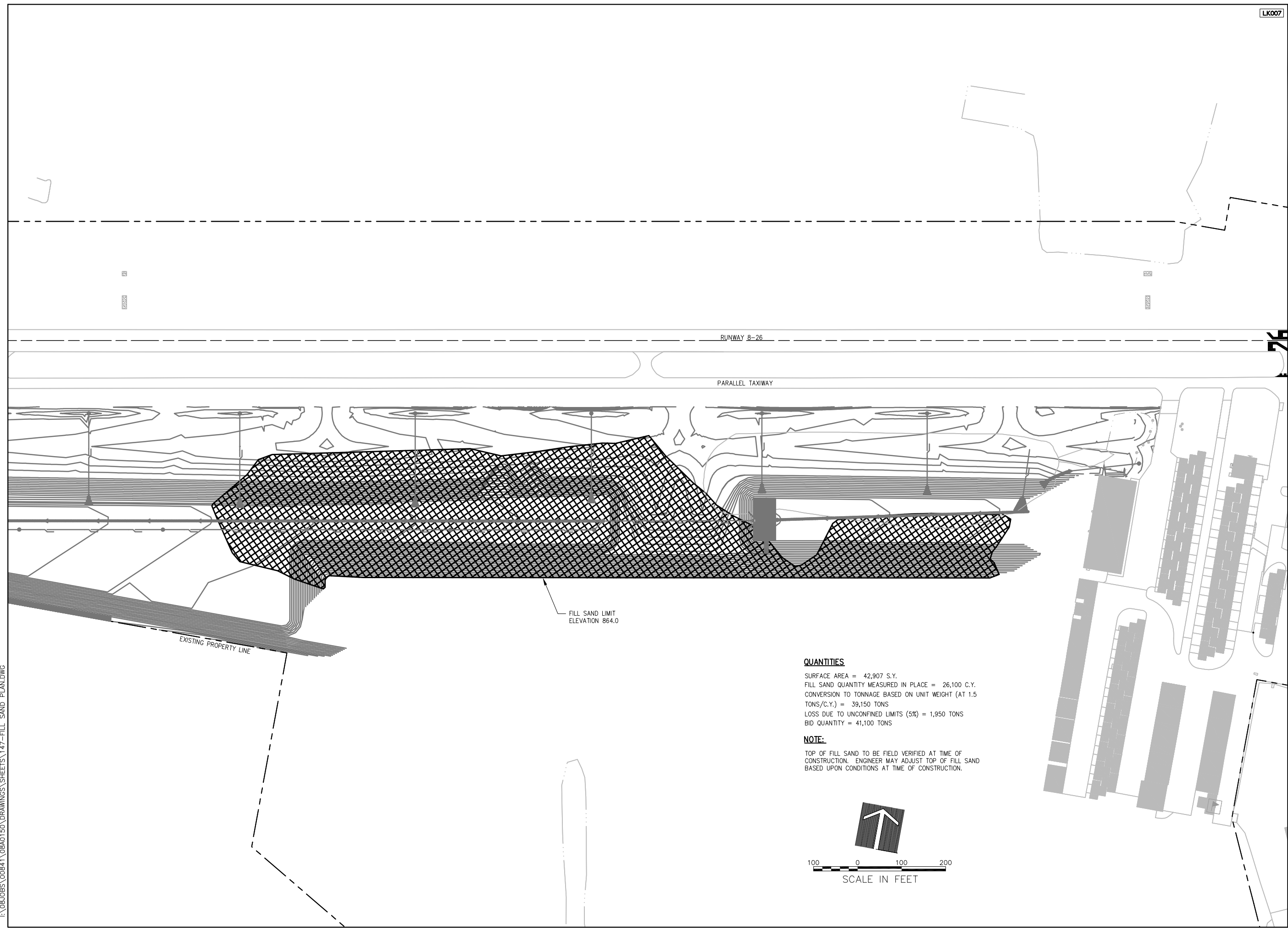


FILENAME	DATE	DRAWN	REVIEWED
08A0150	AUGUST 14, 2009	LDH	LDH
146-ELECTRICAL PLAN.DWG		LDH	RMH

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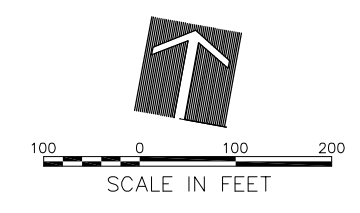
**ELECTRICAL PLAN AND DETAILS**  
 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

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**QUANTITIES**  
 SURFACE AREA = 42,907 S.Y.  
 FILL SAND QUANTITY MEASURED IN PLACE = 26,100 C.Y.  
 CONVERSION TO TONNAGE BASED ON UNIT WEIGHT (AT 1.5 TONS/C.Y.) = 39,150 TONS  
 LOSS DUE TO UNCONFINED LIMITS (5%) = 1,950 TONS  
 BID QUANTITY = 41,100 TONS

**NOTE:**  
 TOP OF FILL SAND TO BE FIELD VERIFIED AT TIME OF CONSTRUCTION. ENGINEER MAY ADJUST TOP OF FILL SAND BASED UPON CONDITIONS AT TIME OF CONSTRUCTION.



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



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Filename 147-FILL SAND PLAN.DWG	LDH	8/6/09
Scale 1" = 100'	RMH	8/7/09
Date AUGUST 14, 2009		
LAYOUT		
DRAWN		
REVIEWED		

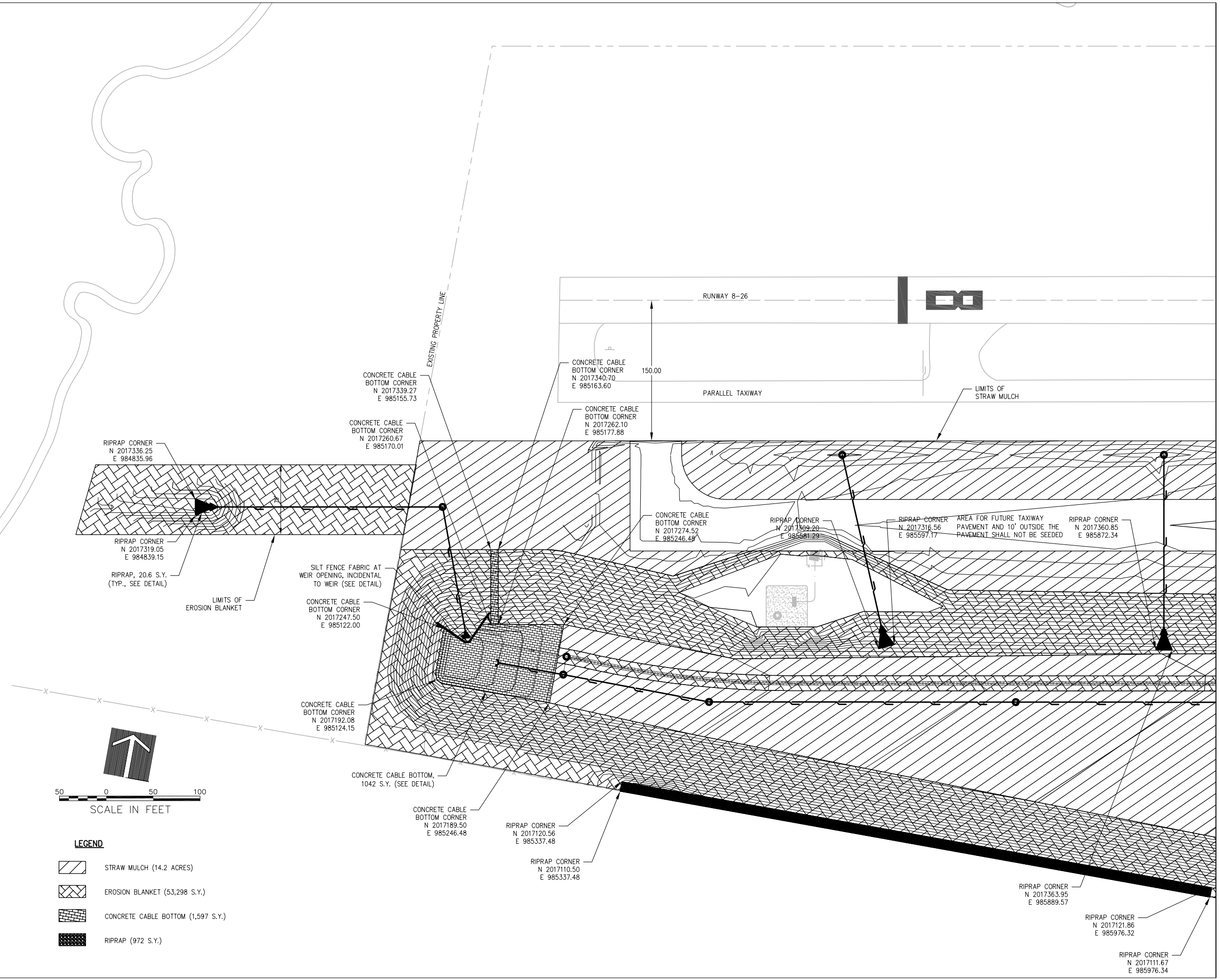
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**FILL SAND PLACEMENT PLAN**  
 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

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I:\08\085\00841\08A0150\DRAWINGS\SHEETS\148-EROSION CONTROL PLAN.DWG



- LEGEND**
-  STRAW MULCH (14.2 ACRES)
  -  EROSION BLANKET (53,298 S.Y.)
  -  CONCRETE CABLE BOTTOM (1,597 S.Y.)
  -  RIPRAP (972 S.Y.)



REVISION	DATE

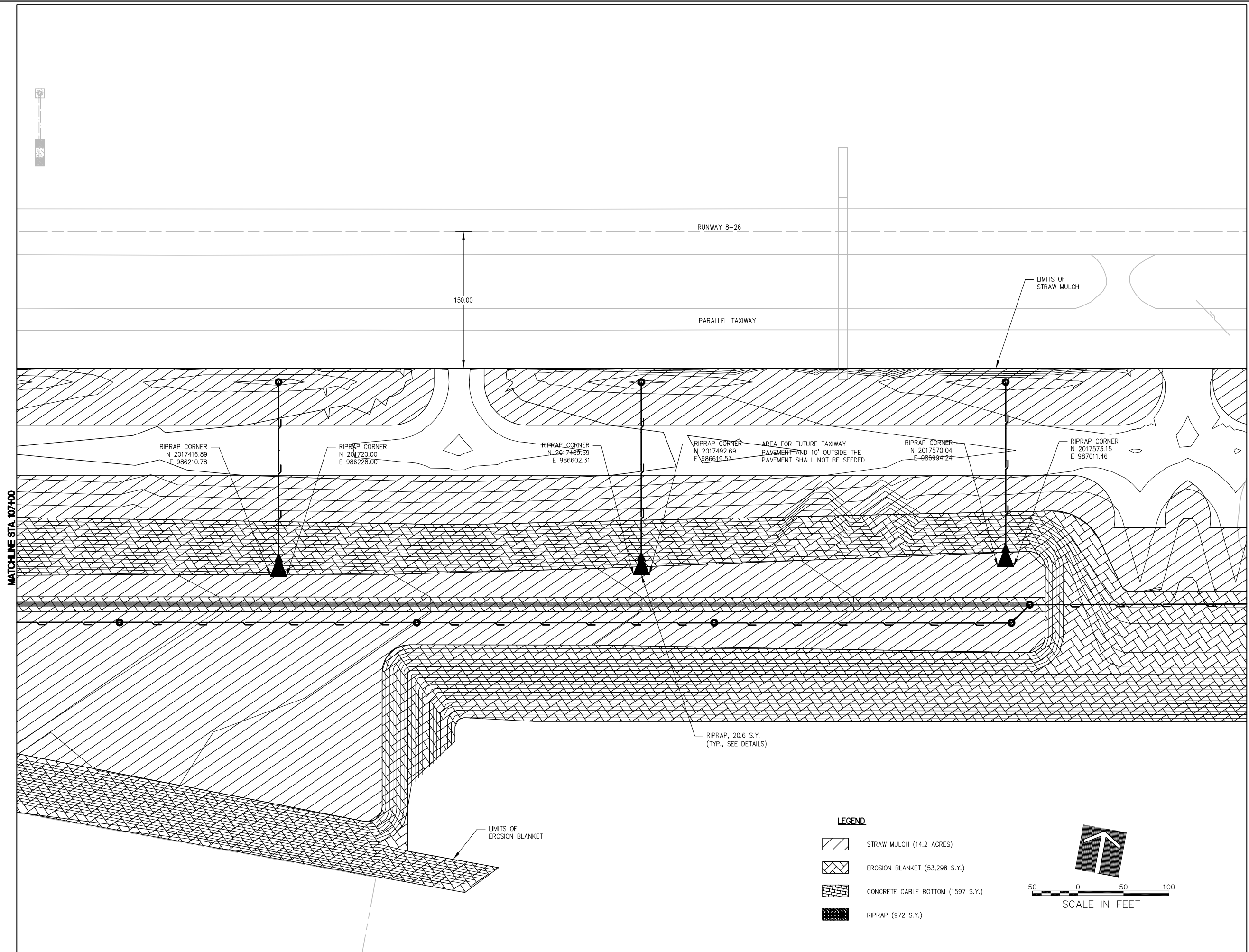
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PLAN	DATE	BY	CHKD	APP'D
148-EROSION CONTROL	AUGUST 14, 2009	LDH	LDH	RMH
LAYOUT		LDH	LDH	RMH
DRAWN		LDH	LDH	RMH
REVIEWED		LDH	LDH	RMH

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**EROSION CONTROL PLAN**  
 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

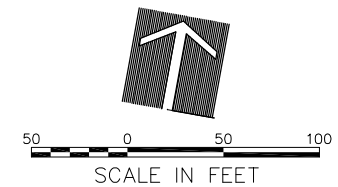


MATCHLINE STA. 107+00

MATCHLINE STA. 120+50

LEGEND

-  STRAW MULCH (14.2 ACRES)
-  EROSION BLANKET (53,298 S.Y.)
-  CONCRETE CABLE BOTTOM (1597 S.Y.)
-  RIPRAP (972 S.Y.)



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 Scale: 1"=50'  
 Date: AUGUST 14, 2009

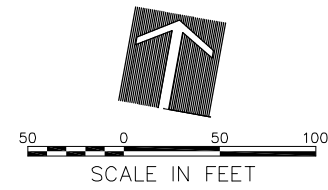
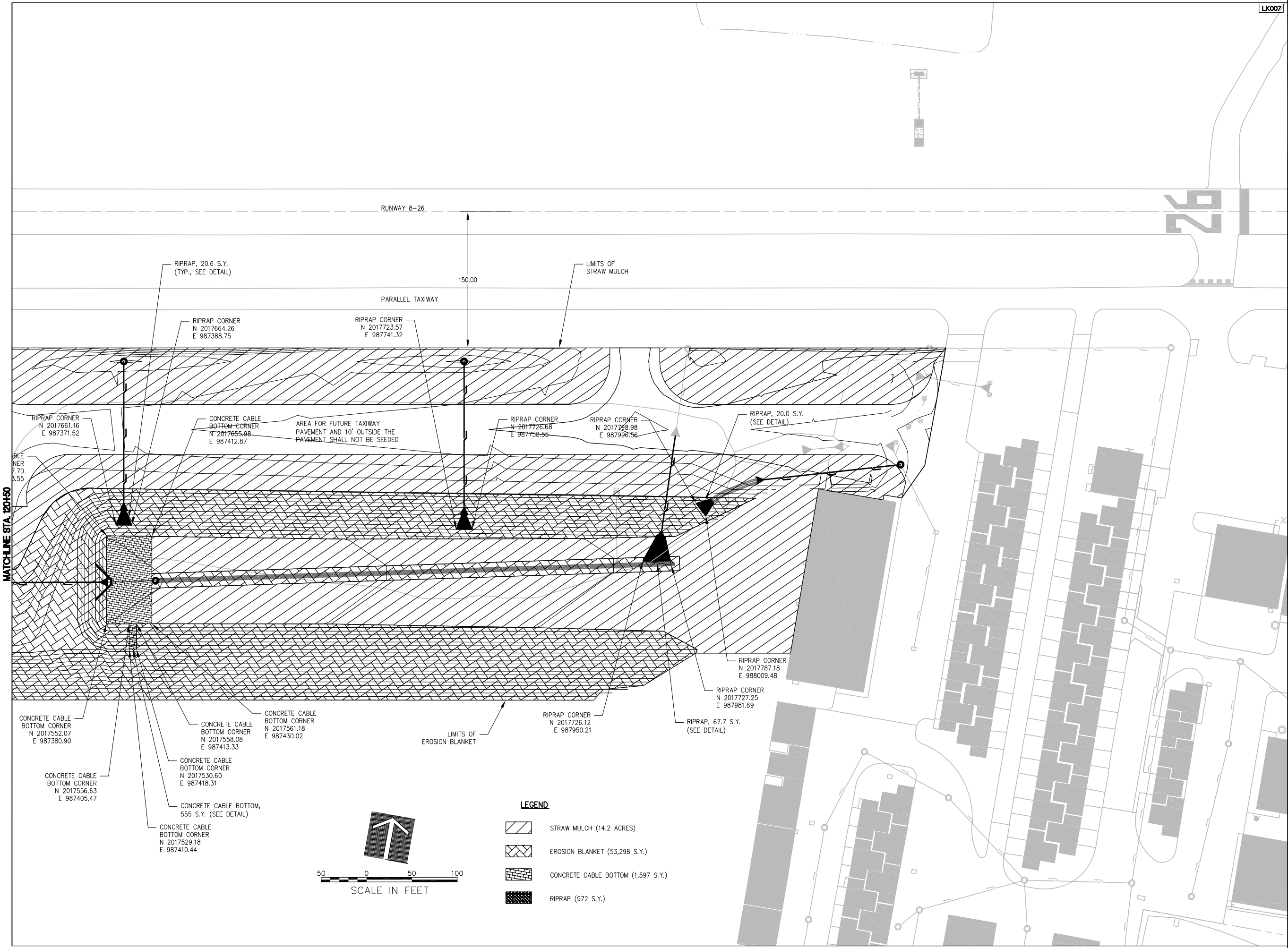
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 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

DATE	REVISION

LAYOUT	LDH	7/26/09
DRAWN	LDH	7/26/09
REVIEWED	RMH	8/7/09

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**LEGEND**

	STRAW MULCH (14.2 ACRES)
	EROSION BLANKET (53,298 S.Y.)
	CONCRETE CABLE BOTTOM (1,597 S.Y.)
	RIPRAP (972 S.Y.)

DATE	REVISION

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Hanson No. 08A0150	150-EROSION CONTROL PLAN
Filename	1"=50'
Scale	AUGUST 14, 2009
Date	LAYOUT LDH 7/26/09
	DRAWN LDH 7/26/09
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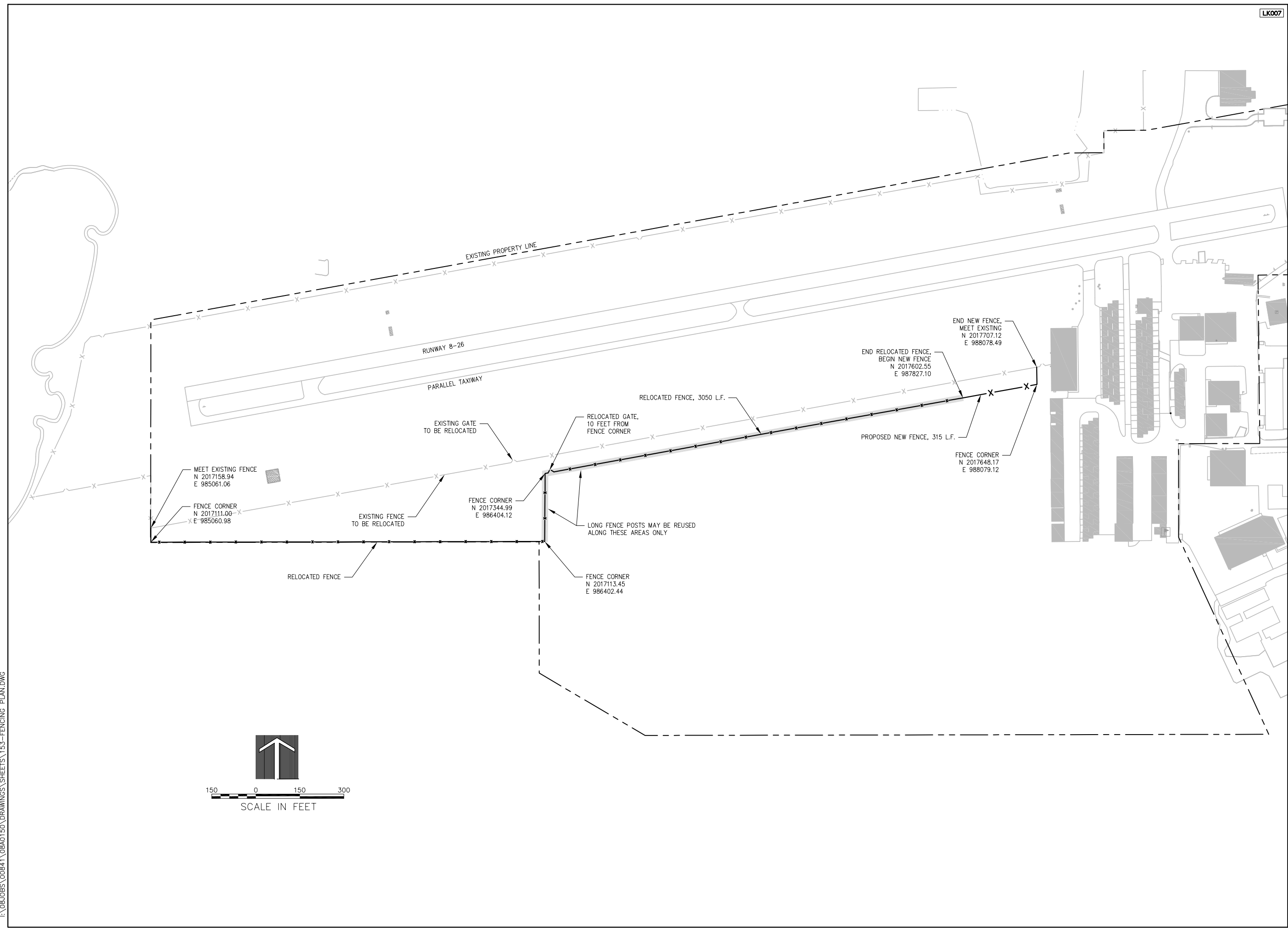
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 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12







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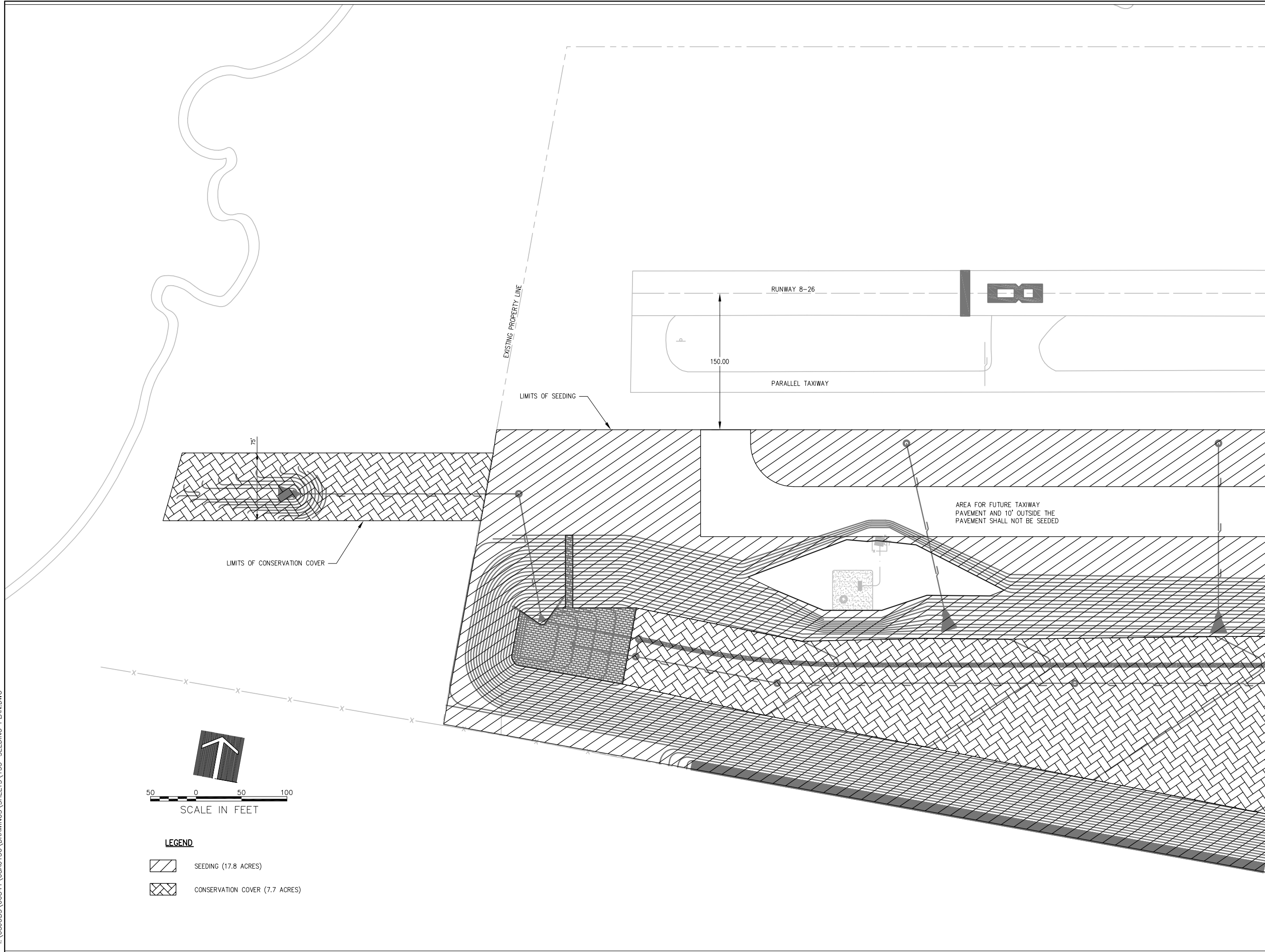




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7/22/09	LDH	LDH
8/7/09	LDH	RMH

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 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12





- LEGEND**
-  SEEDING (17.8 ACRES)
  -  CONSERVATION COVER (7.7 ACRES)

DATE	REVISION

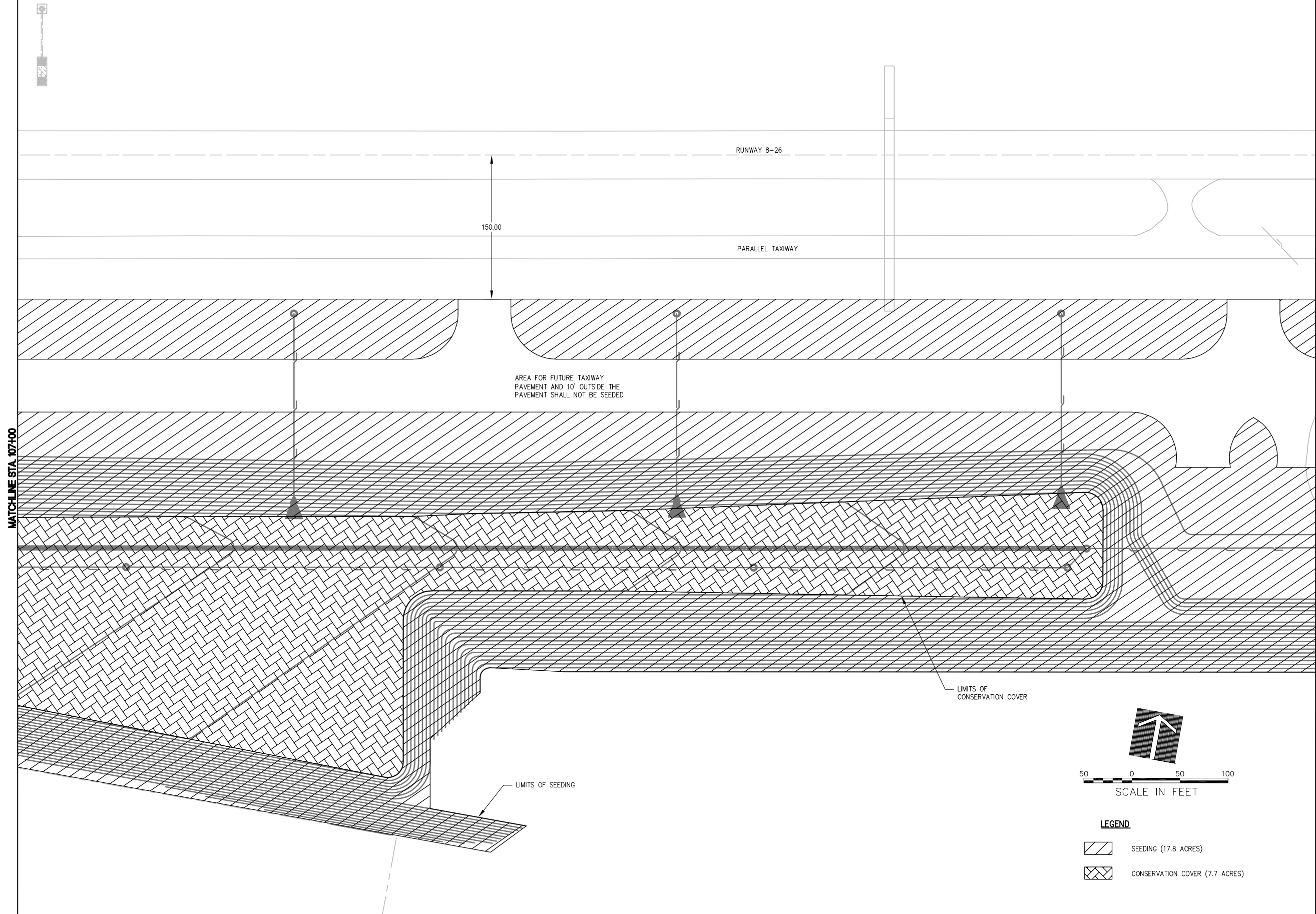
**VILLAGE OF LAKE IN THE HILLS**  
 600 Harvest Gate  
 Lake in the Hills, Illinois 60156 Telephone:  
 847.960.7410  
 Fax: 847.960.7515



Hanson No. 08A0150	LDH	7/26/09
Filename 155-SEEDING PLAN.DWG	LDH	7/26/09
Scale 1"=50'	RMH	8/7/09
Date AUGUST 14, 2009		
LAYOUT		
DRAWN		
REVIEWED		

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**LANDSCAPING PLAN**  
 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



DATE	REVISION

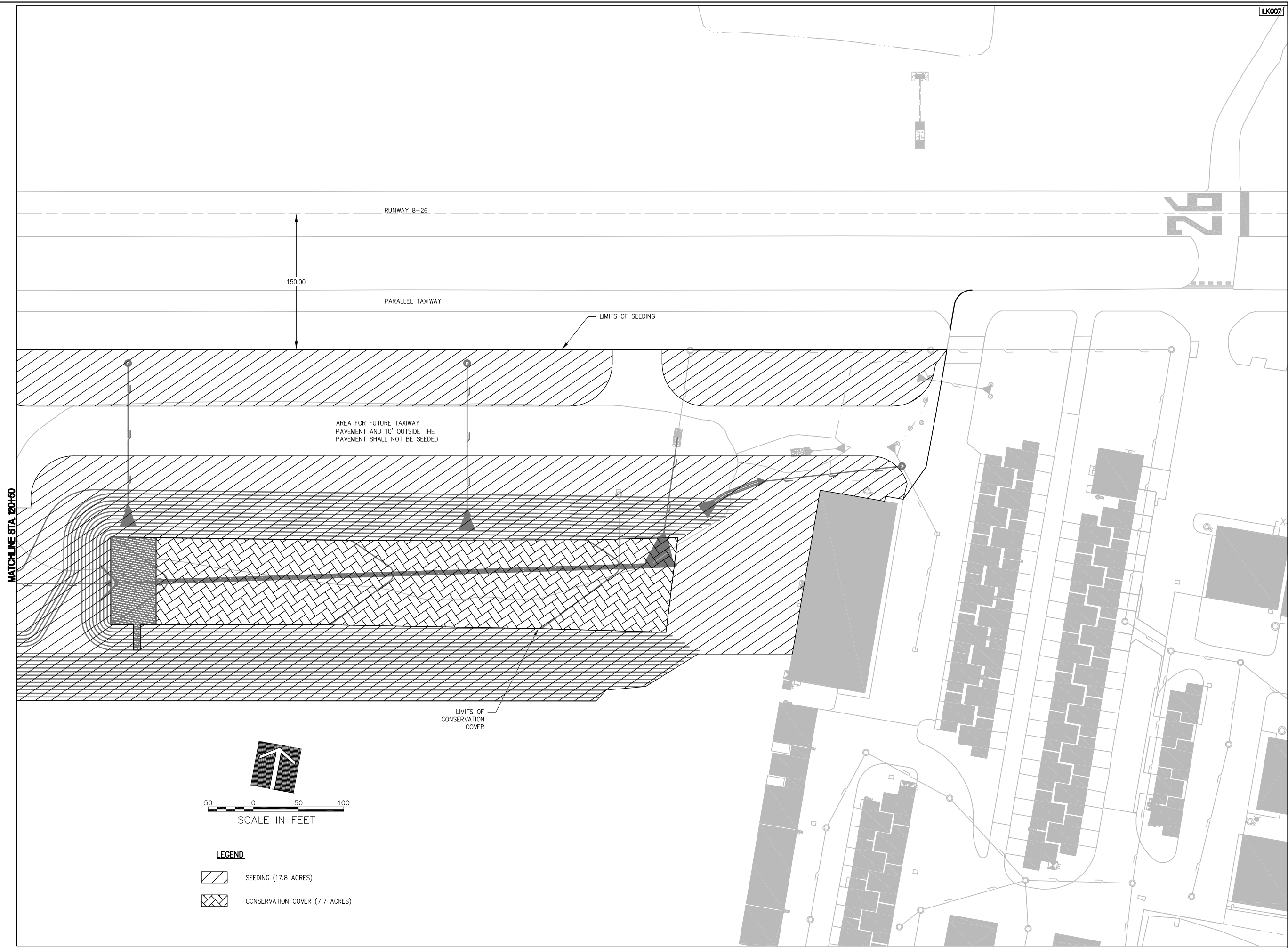
**VILLAGE OF LAKE IN THE HILLS**  
 600 Harvest Gate  
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Hanson No.	08A0150
Filename	156-SEEDING PLAN.DWG
Scale	1" = 50'
Date	AUGUST 14, 2009
LAYOUT	LDH 7/26/09
DRAWN	LDH 7/26/09
REVIEWED	RMH 8/7/09

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**LANDSCAPING PLAN**  
 CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



DATE	REVISION

**VILLAGE OF LAKE IN THE HILLS**  
 600 Harvest Gate  
 Lake in the Hills, Illinois 60156 Telephone:  
 847.960.7410  
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Hanson No. 08A0150	LAYOUT	LDH	7/26/09
Filename 157-SEEDING PLAN.DWG	DRAWN	LDH	7/26/09
Scale 1"=50'	REVIEWED	RMH	8/7/09
Date AUGUST 14, 2009			

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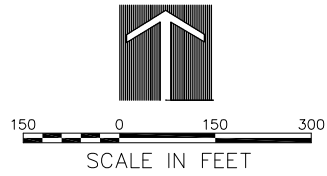
**LANDSCAPING PLAN**

**CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12

AUG 18, 2009 6:53 AM BLAIN01219  
 I:\08\JOBS\00841\08A0150\DRAWINGS\SHEETS\158-BORING\_MAP.DWG



BORING LOCATIONS			
DESCRIPTION	NORTHING	EASTING	ELEVATION
B1-1	2017396.28	985324.11	879.0
B1-2	2017377.01	985553.70	875.4
B1-3	2017436.93	985687.70	877.4
B1-4	2017337.68	985706.32	879.0
B1-5	2017526.77	986042.36	871.4
B1-6	2017506.60	986265.02	863.1
B1-7	2017597.15	986398.45	864.6
B1-8	2017636.78	986787.75	863.8
B1-9	2017636.35	986963.69	861.9
B1-10	2017732.88	987176.84	865.7
B1-11	2017828.97	987565.93	876.1
B1-12	2017783.66	987792.06	886.3
B1-13	2017866.94	987914.76	870.4
B1-16	2017417.30	985216.00	882.9
B1-17	2017531.37	985843.84	878.4
B1-18	2017590.95	986199.90	872.9
B1-19	2017666.95	986601.22	869.5
B1-20	2017806.10	987356.20	876.6
B1-21	2017916.55	988170.53	882.9



BORING LOCATION PLAN AND SOIL BORING LOGS HAVE BEEN MADE AVAILABLE SOLELY FOR THE CONVENIENCE OF THE BIDDER AND/OR CONTRACTOR. NEITHER THE OWNER NOR THE PROJECT ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE AVAILABLE INFORMATION AND THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE CONDITIONS DESCRIBED IN THE SOIL TEST DATA ARE REPRESENTATIVE OF ALL CONDITIONS THAT MAY BE ENCOUNTERED.

DATE	REVISION

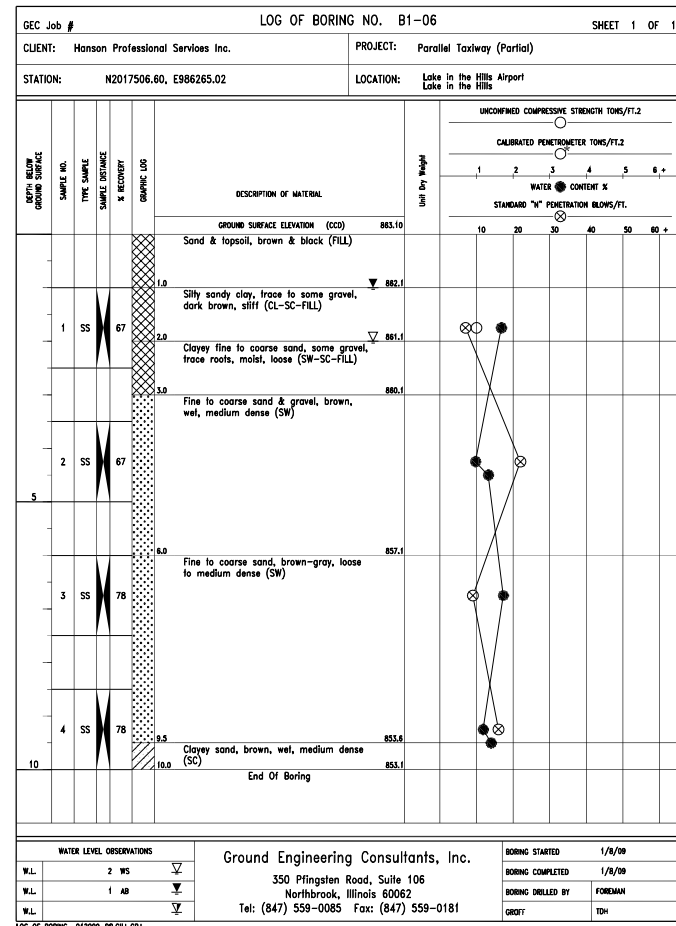
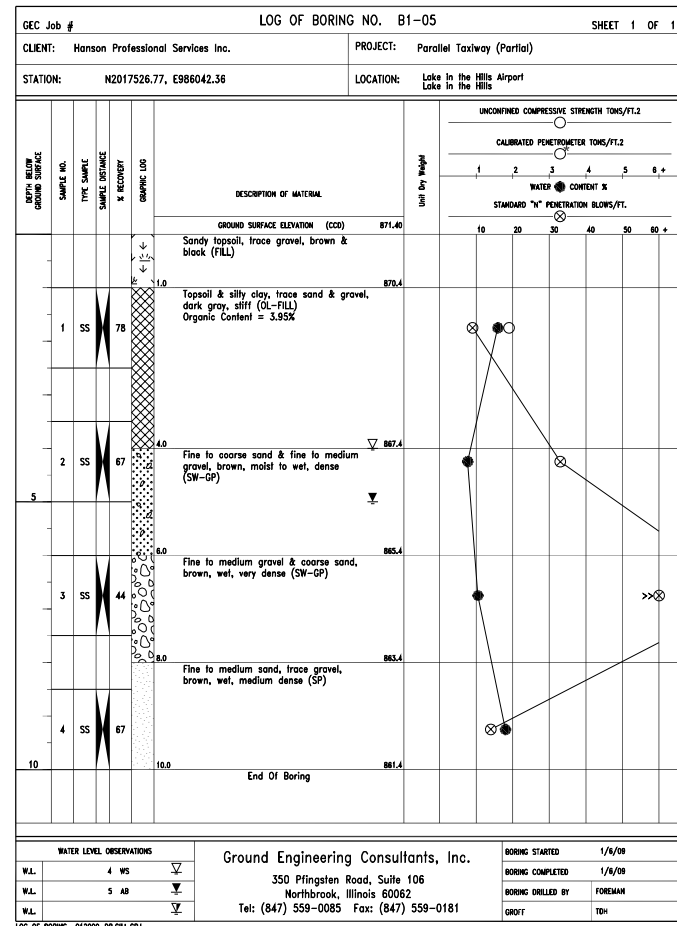
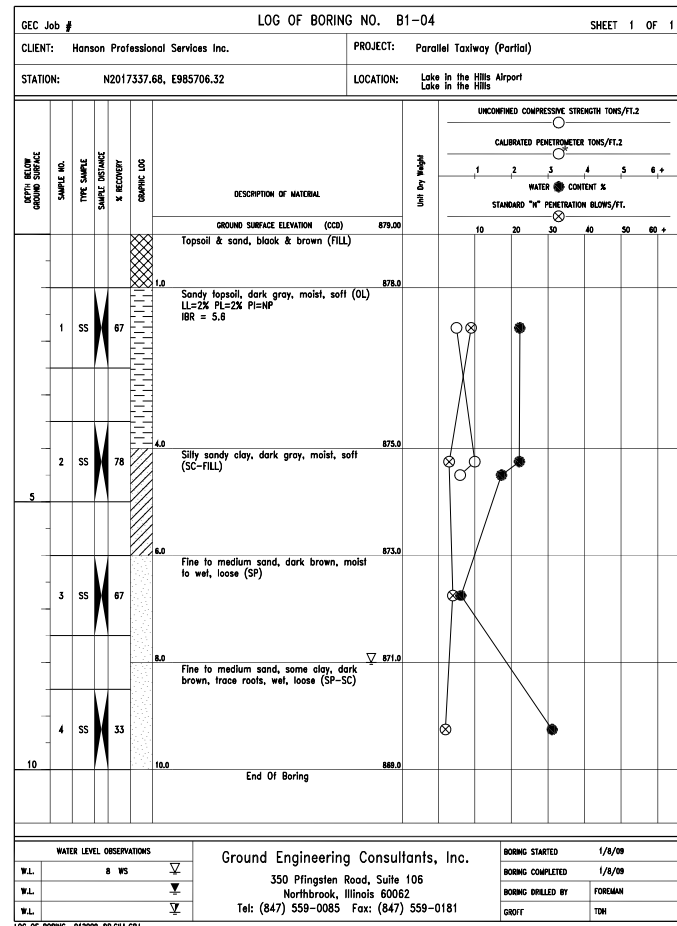
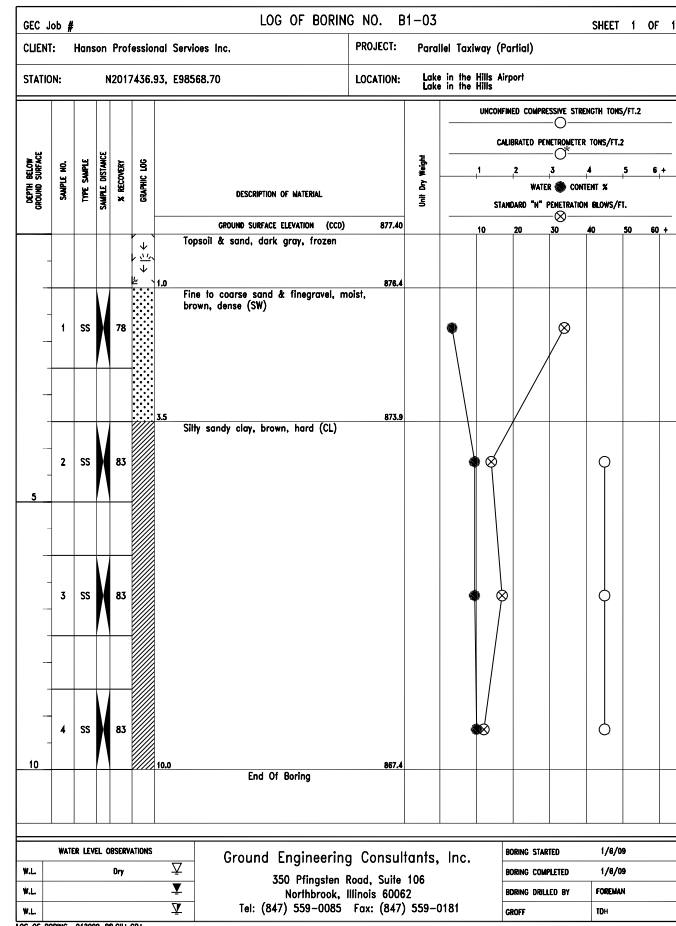
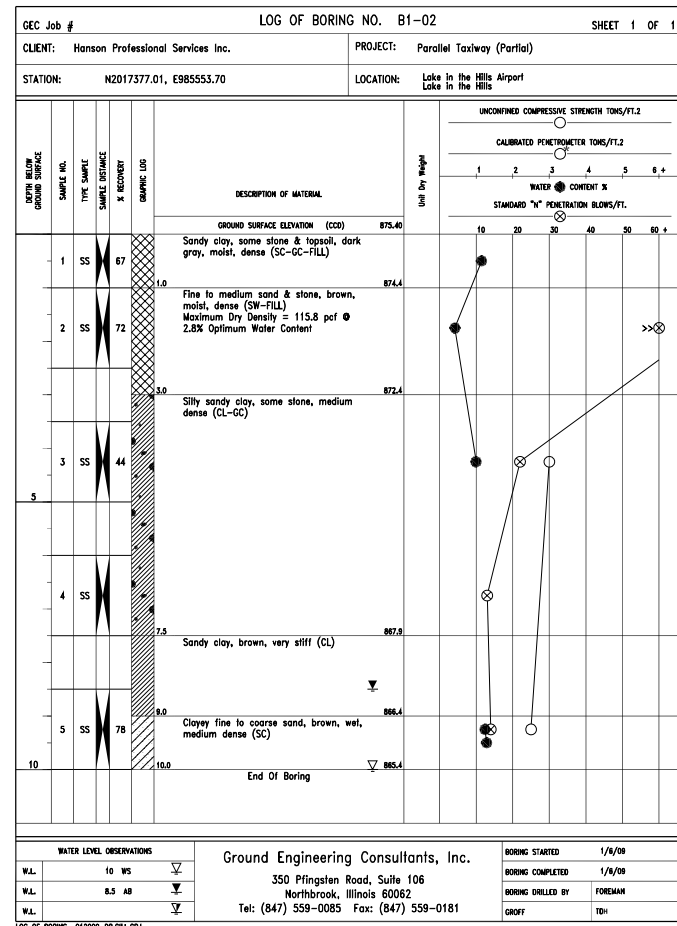
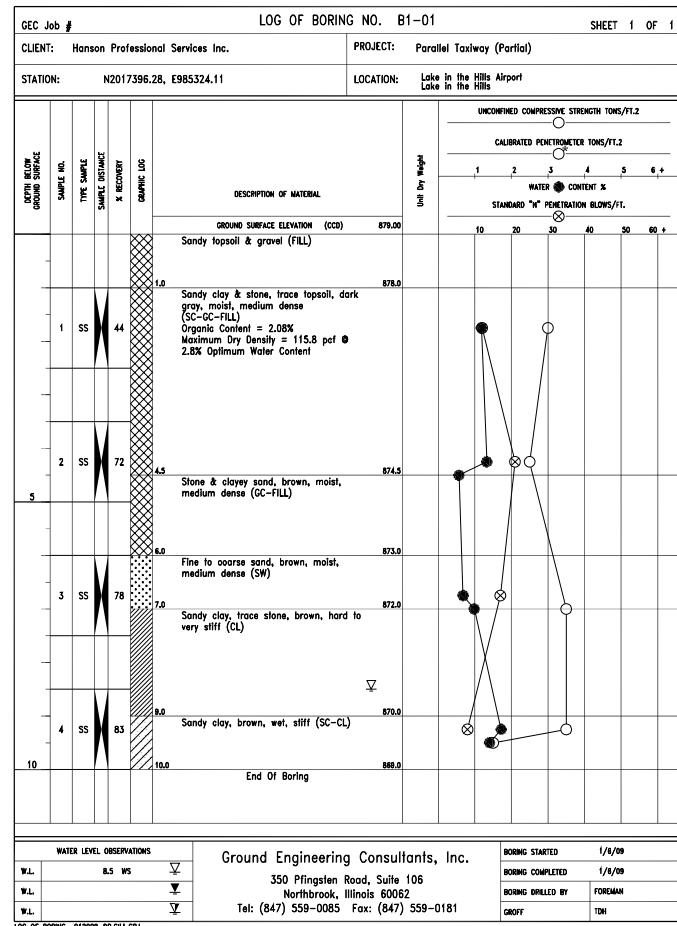
**VILLAGE OF LAKE IN THE HILLS**  
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 Lake in the Hills, Illinois 60156 Telephone:  
 847.960.7410  
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Hanson No.	08A0150
Filename	158-BORING_MAP.DWG
Scale	1" = 150'
Date	AUGUST 14, 2009
LAYOUT	LDH 7/24/09
DRAWN	LDH 7/24/09
REVIEWED	RMH 8/7/09

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**BORING LOCATION MAP**  
**CONSTRUCT PARALLEL TAXIWAY A,  
 STAGE 1, GRADING AND DRAINAGE**  
 IDA No. 3CK-3877 AIP No. 3-17-0112-B12



AUG 18, 2009 6:53 AM BLAIN01219 I:\JOB\0841\08A0150\DRAWINGS\SHEETS\159-BORINGS.DWG

REVISION	
DATE	

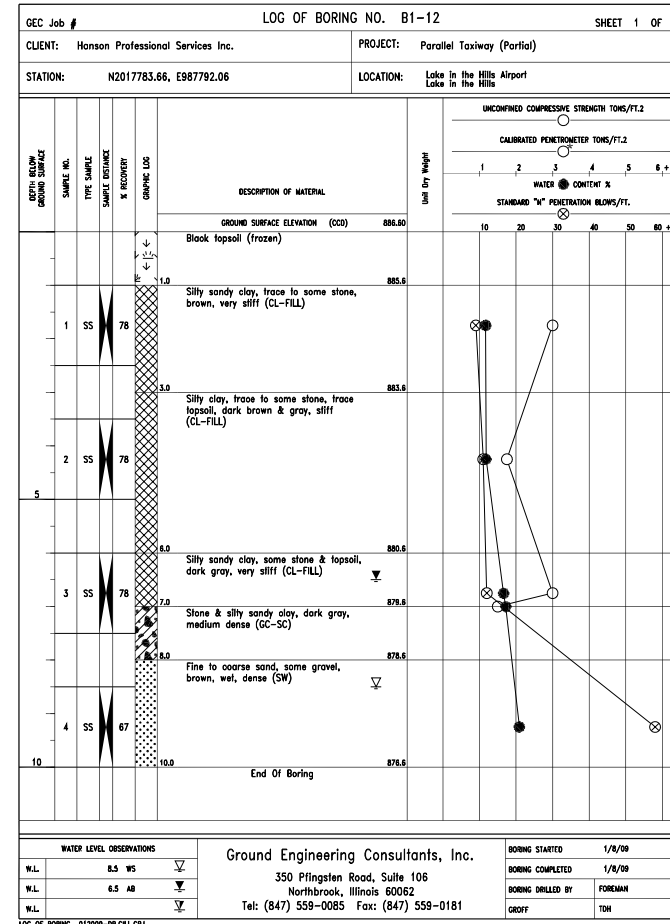
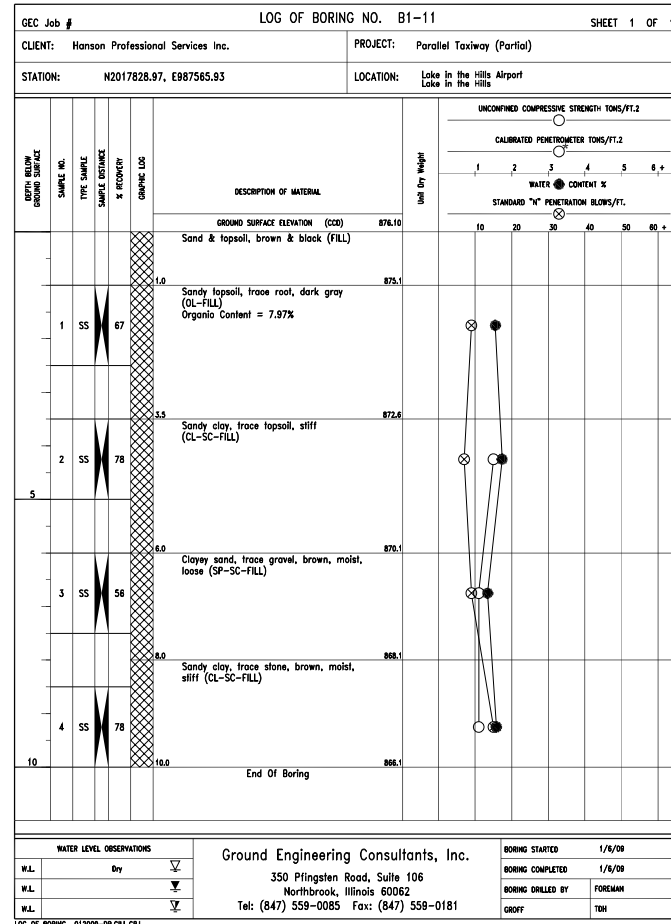
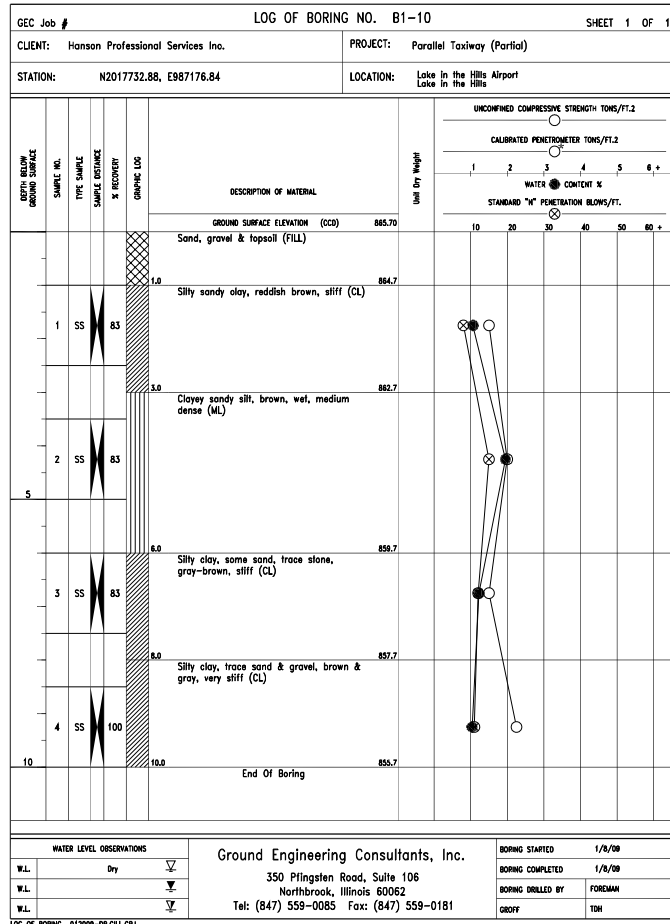
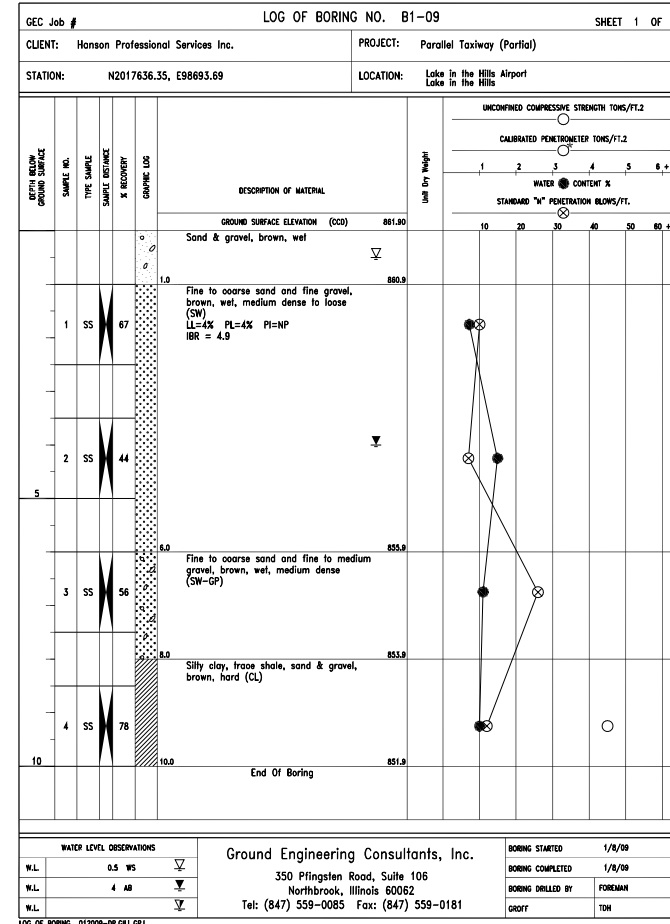
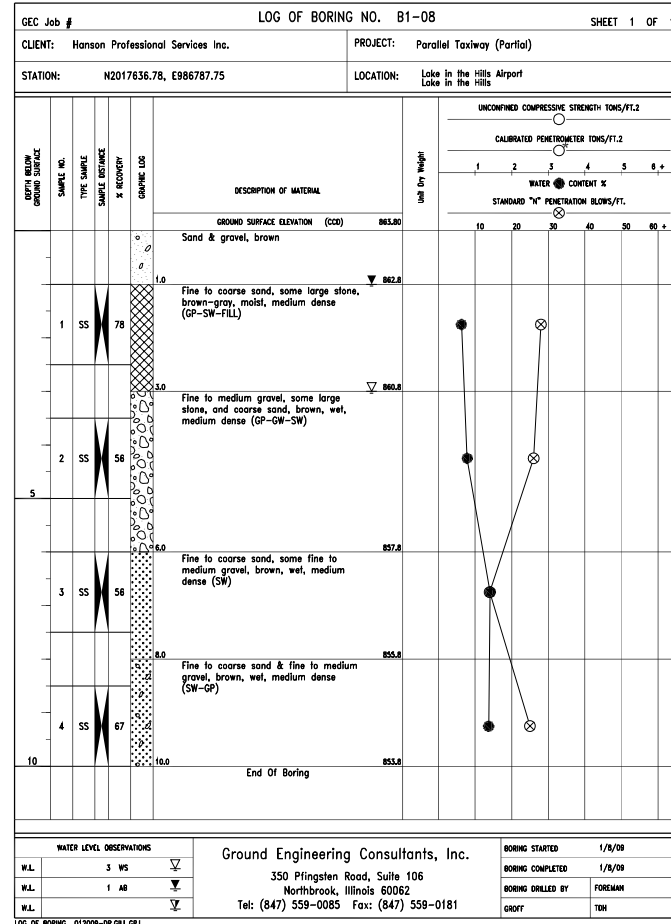
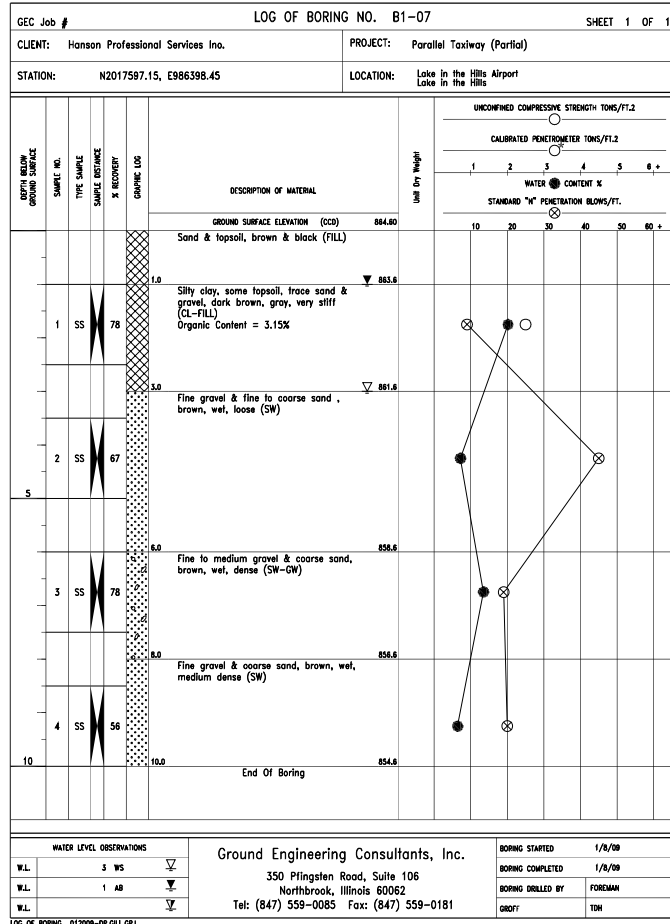
VILLAGE OF LAKE IN THE HILLS  
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Hanson No. 08A0150	7/21/09
Filename 159-BORINGS.DWG	LDH
Scale	LDH
Date AUGUST 14, 2009	RMH
	7/21/09
	8/7/09

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BORING LOGS  
B-1 THRU B-6  
CONSTRUCT PARALLEL TAXIWAY A,  
STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12



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REVISION	
DATE	

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600 Harvest Gate  
Lake in the Hills, Illinois 60156 Telephone: 847.960.7410  
847.960.7410  
Fax: 847.960.7515

Hanson No. 08A0150  
Filename 160-BORINGS.DWG  
Scale  
Date AUGUST 14, 2009

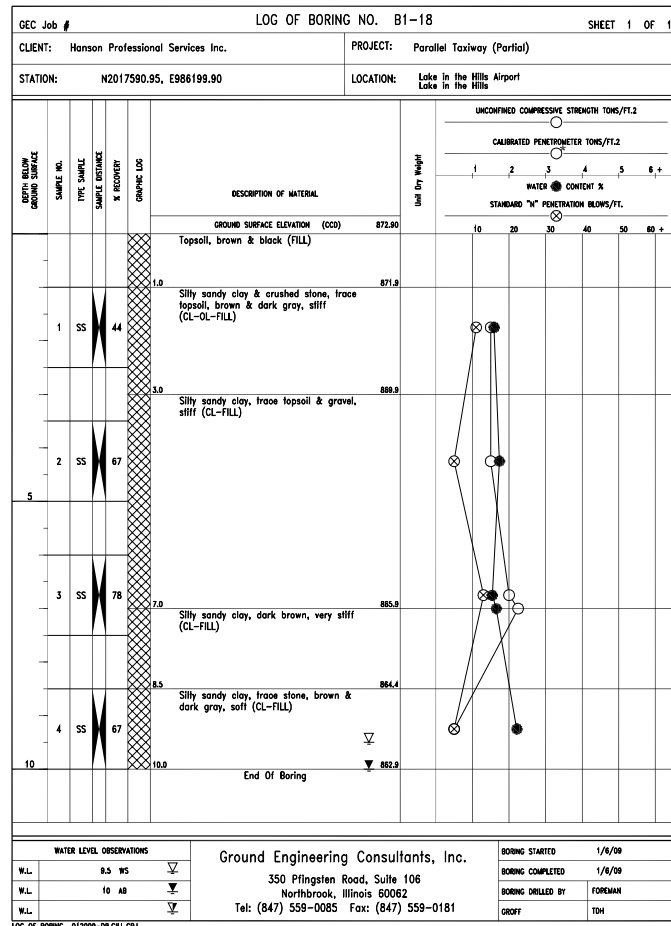
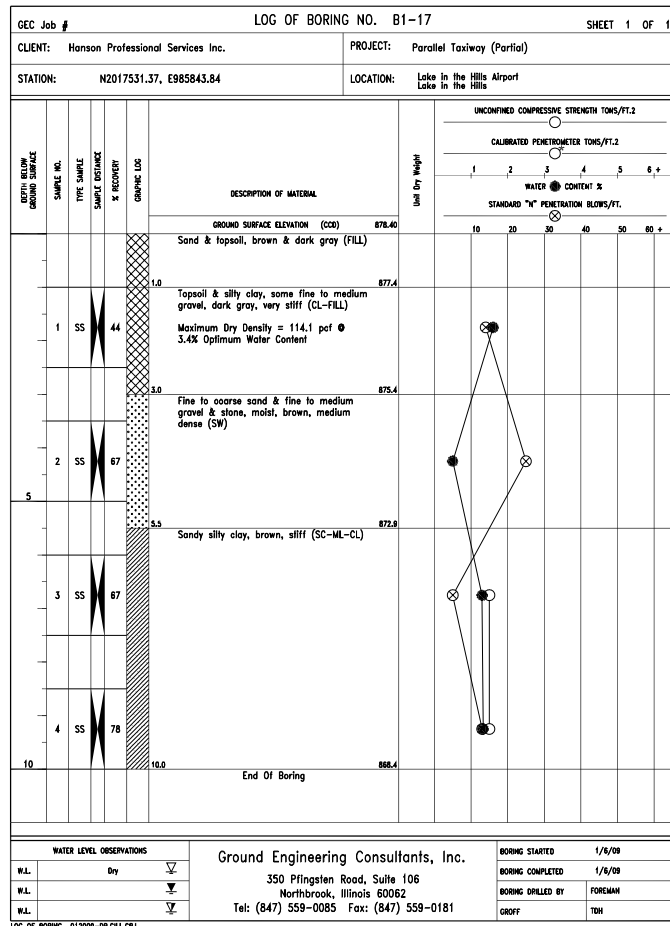
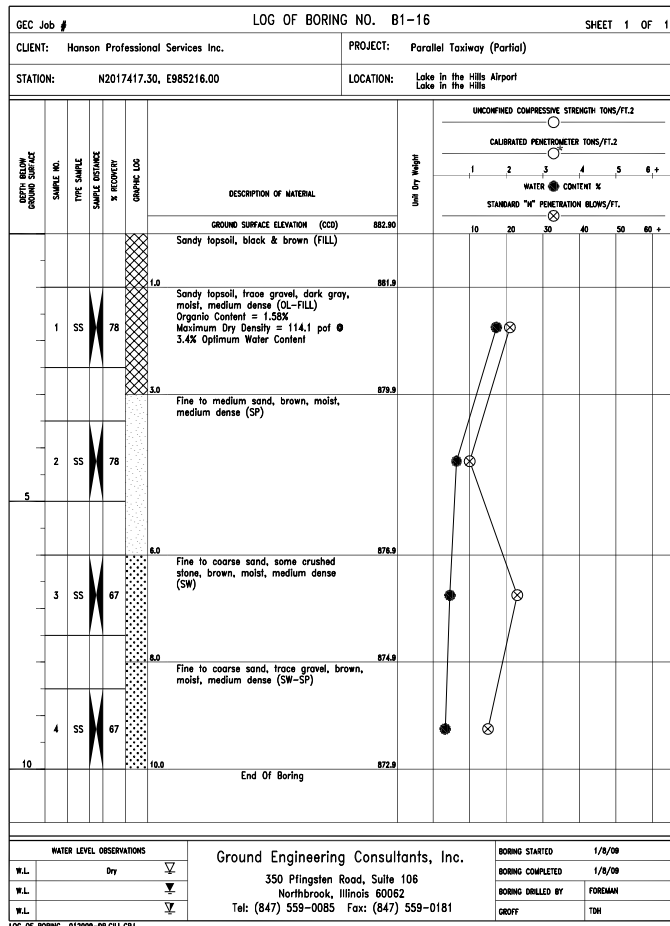
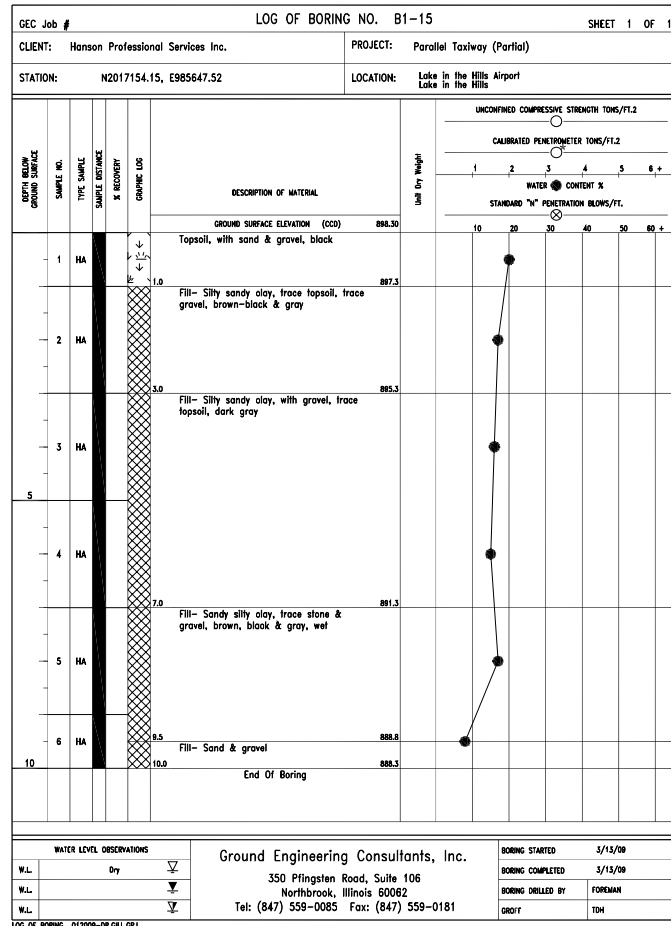
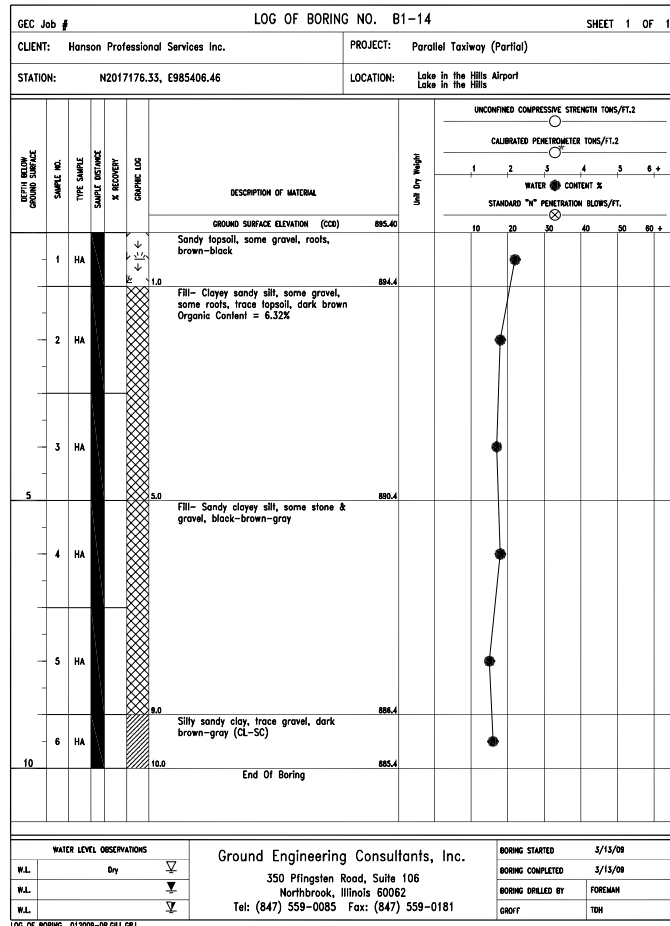
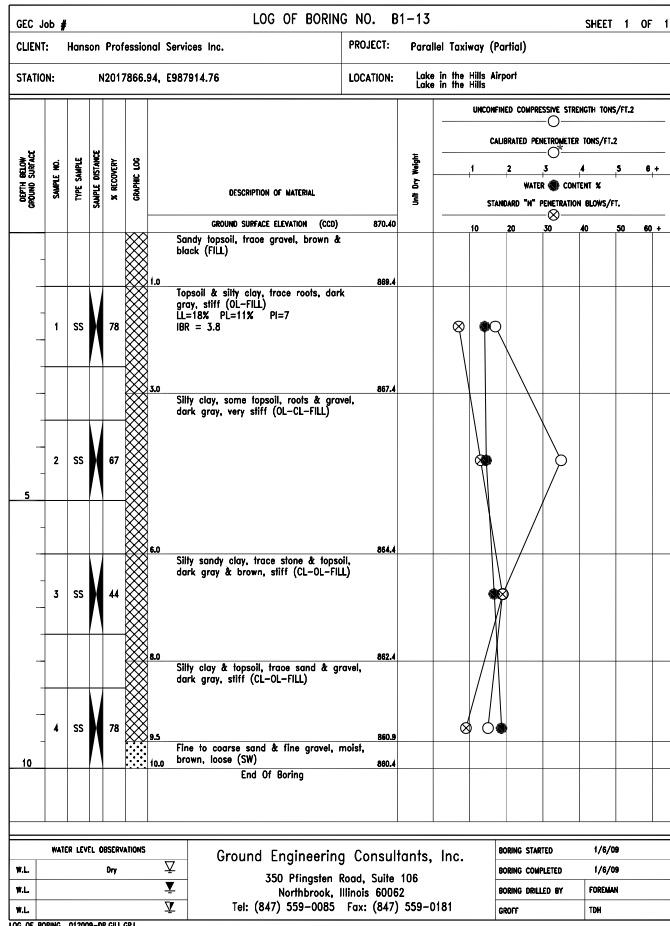
LAYOUT	LDH	7/21/09
DRAWN	LDH	7/21/09
REVIEWED	RMH	8/7/09

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BORING LOGS  
B-7 THRU B-12

CONSTRUCT PARALLEL TAXIWAY A,  
STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12





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REVISION	
DATE	

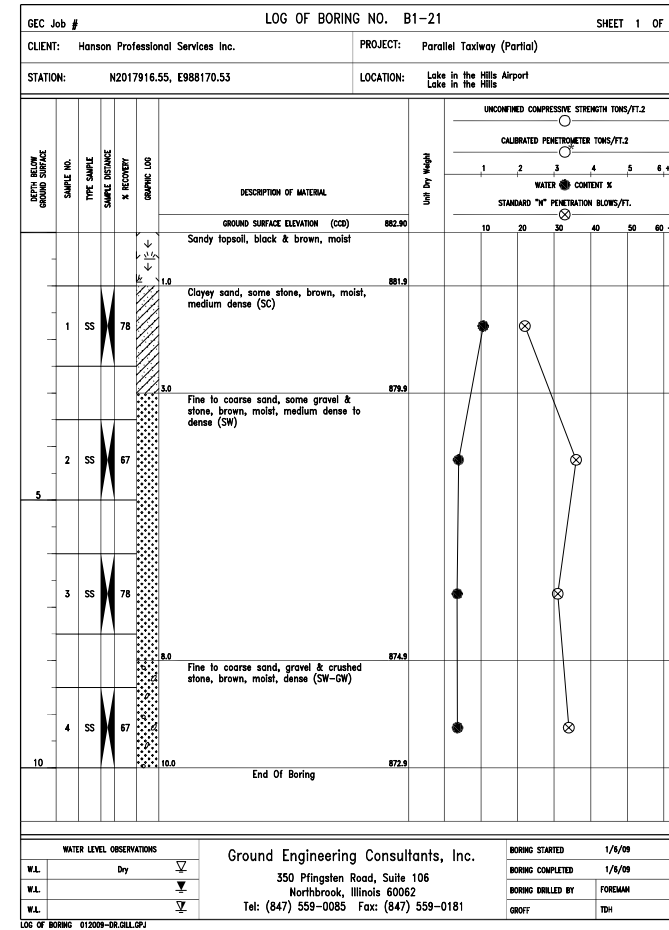
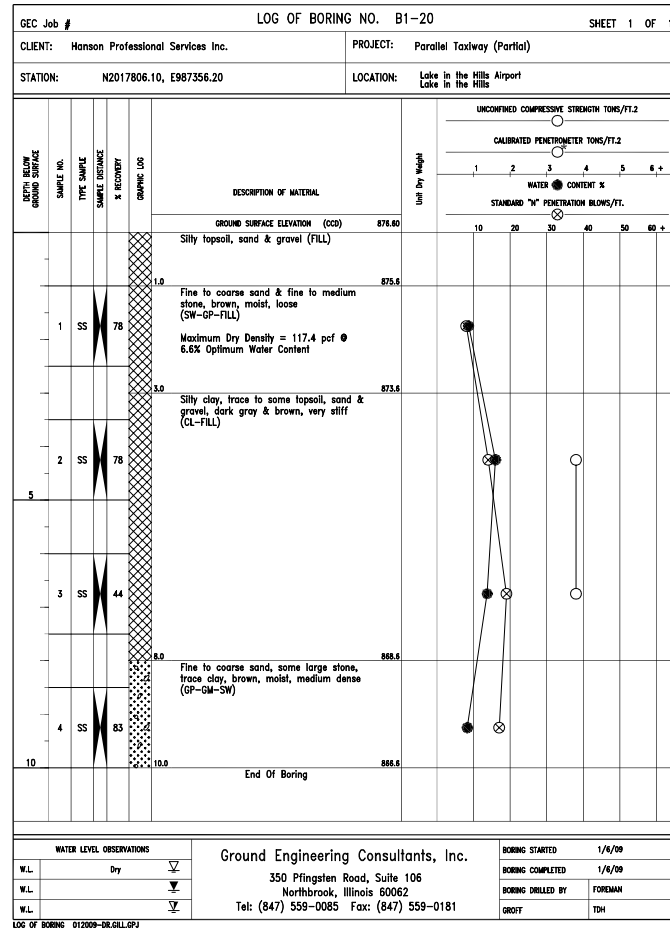
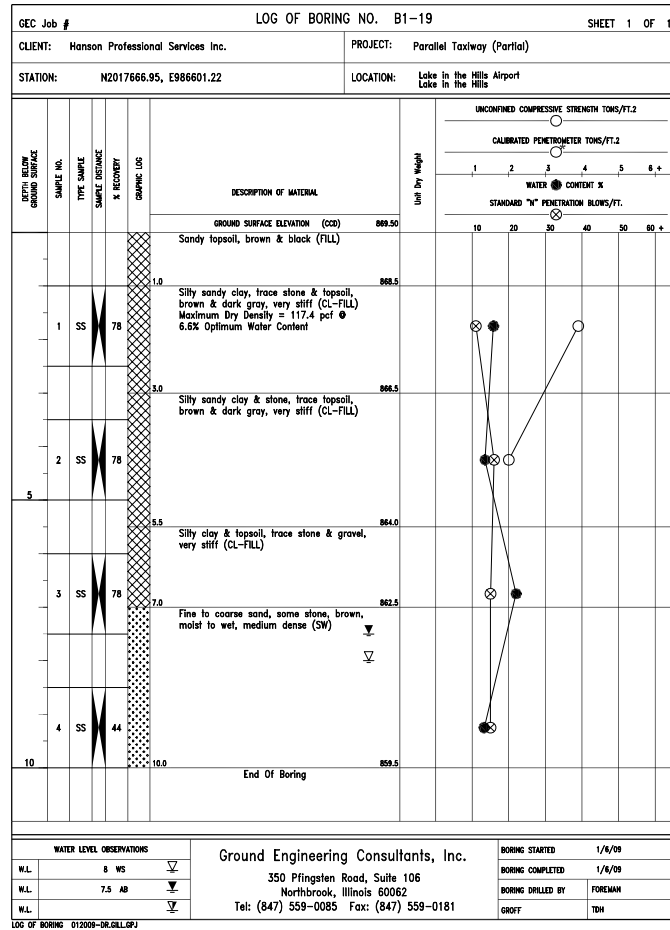
VILLAGE OF LAKE IN THE HILLS  
600 Harvest Gate  
Lake in the Hills, Illinois 60156  
Telephone: 847.960.7410  
Fax: 847.960.7515



08A0150	161-BORINGS.DWG	7/21/09
Scale	Scale	7/21/09
Date	AUGUST 14, 2009	8/7/09
LAYOUT	LDH	
DRAWN	LDH	
REVIEWED	RMH	

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BORING LOGS  
B-13 THRU B-18  
CONSTRUCT PARALLEL TAXIWAY A,  
STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12



DATE	REVISION

**VILLAGE OF LAKE IN THE HILLS**  
600 Harvest Gate  
Lake in the Hills, Illinois 60156 Telephone: 847.960.7410  
847.960.7410  
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Hanson No. 08A0150	LDH	7/21/09
Filename 162-BORINGS.DWG	LDH	7/21/09
Scale	RMH	8/7/09
Date AUGUST 14, 2009		
LAYOUT		
DRAWN		
REVIEWED		

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Oak Brook, Illinois 60523

**BORING LOGS B-19 THRU B-21**  
CONSTRUCT PARALLEL TAXWAY A, STAGE 1, GRADING AND DRAINAGE  
IDA No. 3CK-3877 AIP No. 3-17-0112-B12