

FOR CULVERT DETAILS SEE SHEET 574
 FOR ESTIMATED QUANTITIES SEE SHEET 206
 FOR PAVEMENT QUANTITIES SEE SHEET 135
 FOR STORM SEWER PROFILE SEE SHEETS 588
 FOR UNDERDRAIN DETAILS SEE SHEET 591
 FOR UNDERDRAIN QUANTITIES SEE SHEETS 142 THRU 152

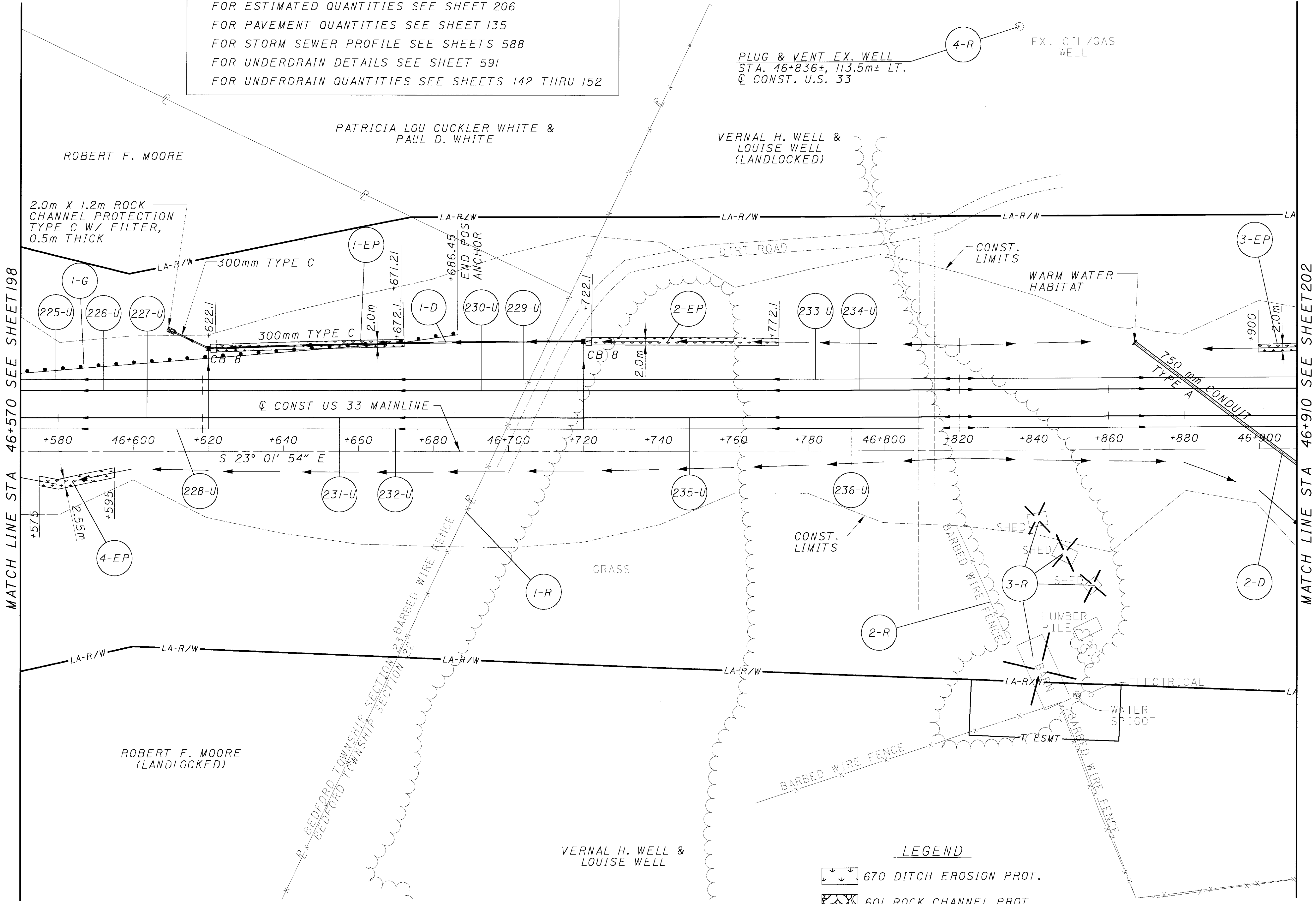
CALCULATED
 BDD
 CHECKED
 TDW

0 10 20
 HORIZONTAL
 SCALE IN METERS

US 33 MAINLINE PLAN
 STA. 46+570 TO STA. 46+910

ATH-33-40.981

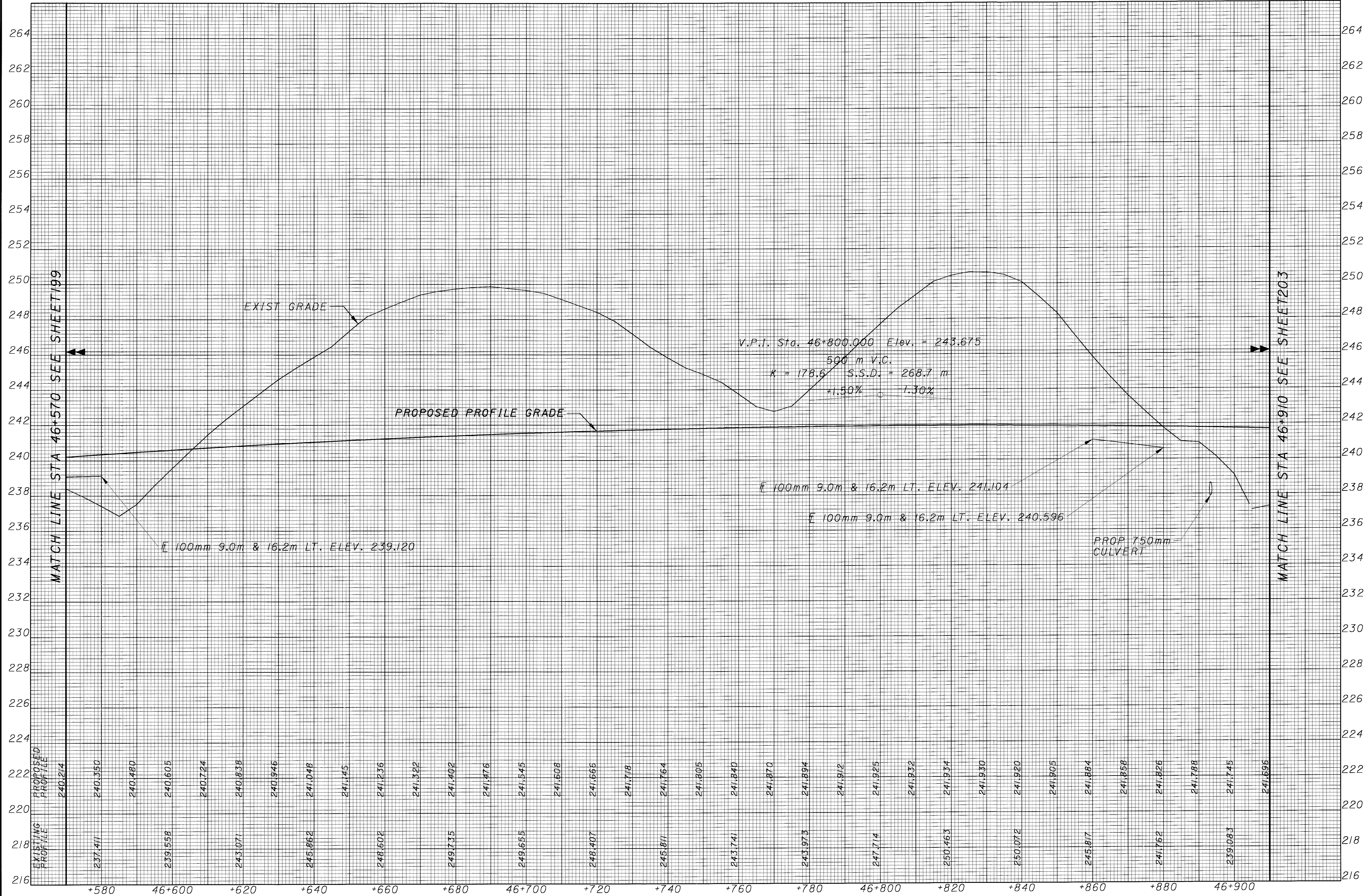
200
 949



- LEGEND**
- [Symbol] 670 DITCH EROSION PROT.
 - [Symbol] 601 ROCK CHANNEL PROT.

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MATCH LINE STA 46+570 SEE SHEET 199

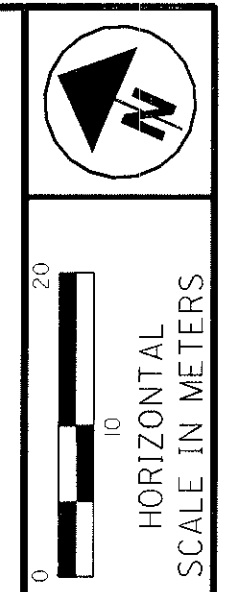
MATCH LINE STA 46+910 SEE SHEET 203

CALCULATED
 BDD
 CHECKED
 TDW

PROFILE - US 33
STA. 46+570 TO STA. 46+910

ATH-33-40.981

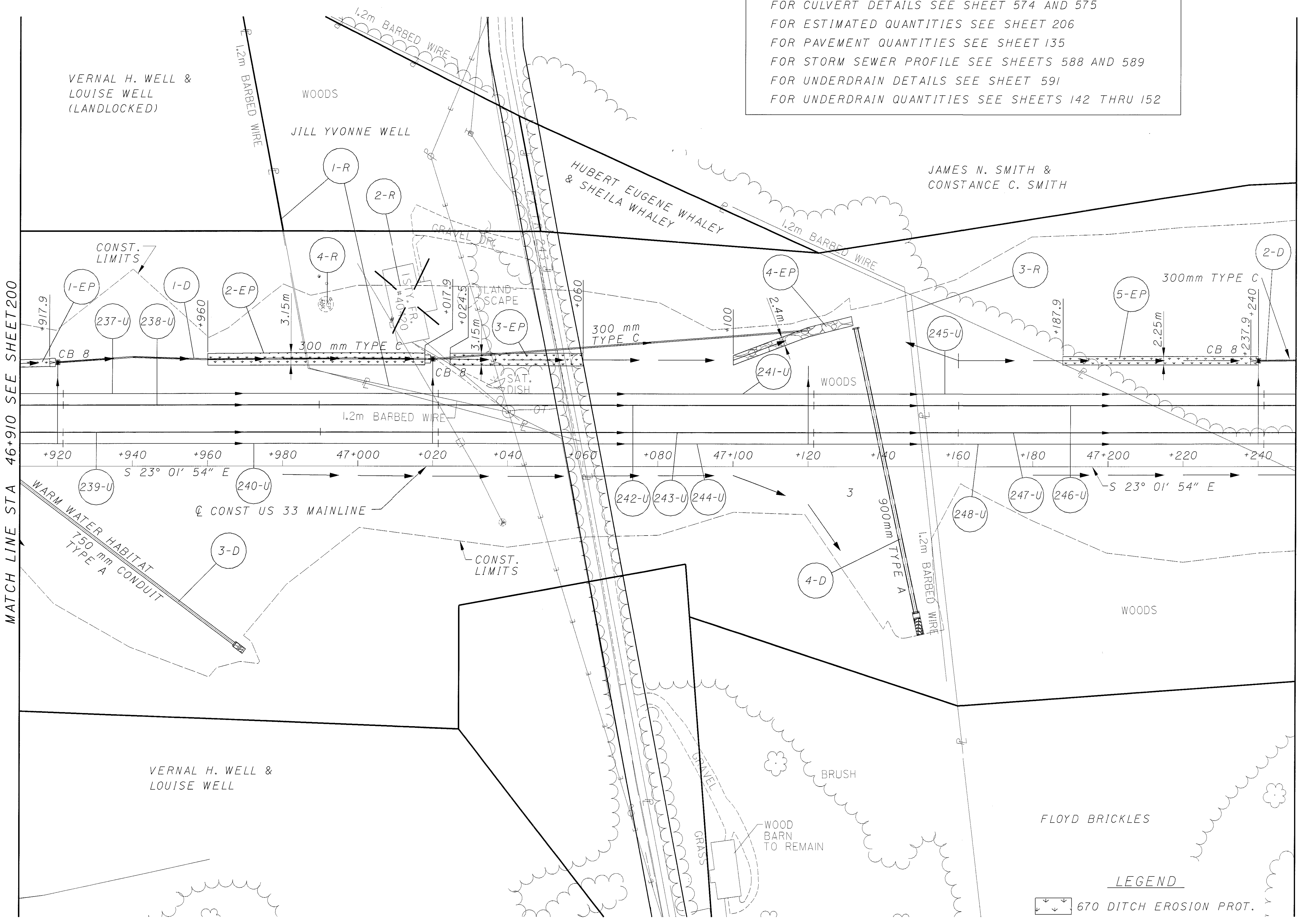
201
 949



FOR CULVERT DETAILS SEE SHEET 574 AND 575
FOR ESTIMATED QUANTITIES SEE SHEET 206
FOR PAVEMENT QUANTITIES SEE SHEET 135
FOR STORM SEWER PROFILE SEE SHEETS 588 AND 589
FOR UNDERDRAIN DETAILS SEE SHEET 591
FOR UNDERDRAIN QUANTITIES SEE SHEETS 142 THRU 152

MATCH LINE STA 46+910 SEE SHEET 200

MATCH LINE STA 47+250 SEE SHEET 204



LEGEND

	670 DITCH EROSION PROT.
	601 ROCK CHANNEL PROT.

CALCULATED
BBD
CHECKED
JBY

US 33 MAINLINE PLAN
STA. 46+910 TO STA. 47+250

ATH-33-40.981

202
949

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VERNAL H. WELL & LOUISE WELL (LANDLOCKED)

WOODS
JILL YVONNE WELL

HUBERT EUGENE WHALEY & SHEILA WHALEY

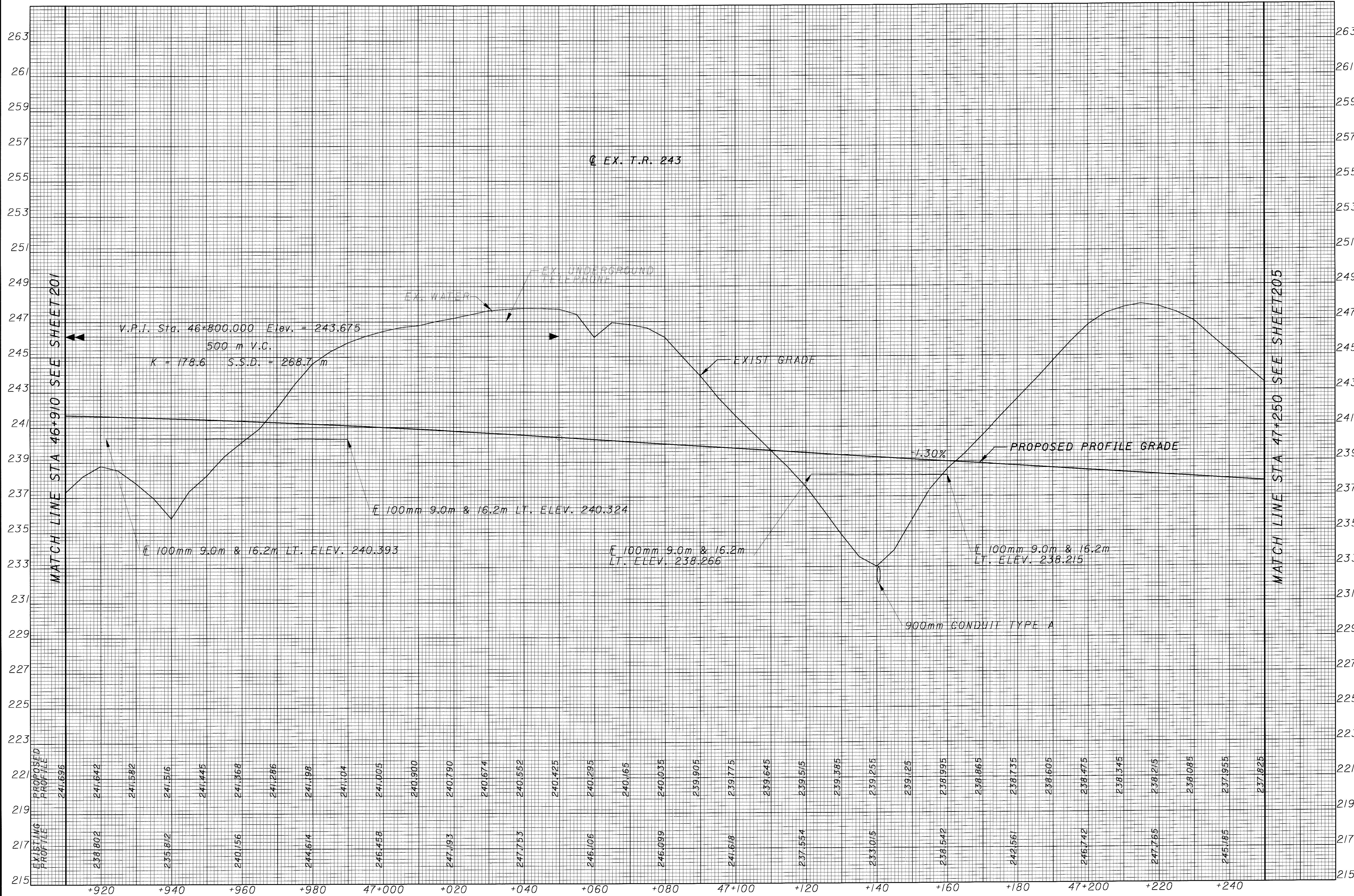
JAMES N. SMITH & CONSTANCE C. SMITH

WARM WATER HABITAT
750 mm CONDUIT
TYPE A

Q CONST US 33 MAINLINE

HUBERT EUGENE WHALEY & SHEILA WHALEY

FLOYD BRICKLES

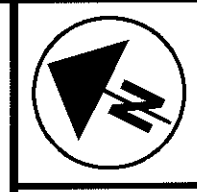


CALCULATED
 BBD
 CHECKED
 TDW

**PROFILE - US 33
 STA. 46+910 TO STA. 47+250**

ATH-33-40.981

203
 949



0 10 20
HORIZONTAL
SCALE IN METERS

CALCULATED
CHECKED

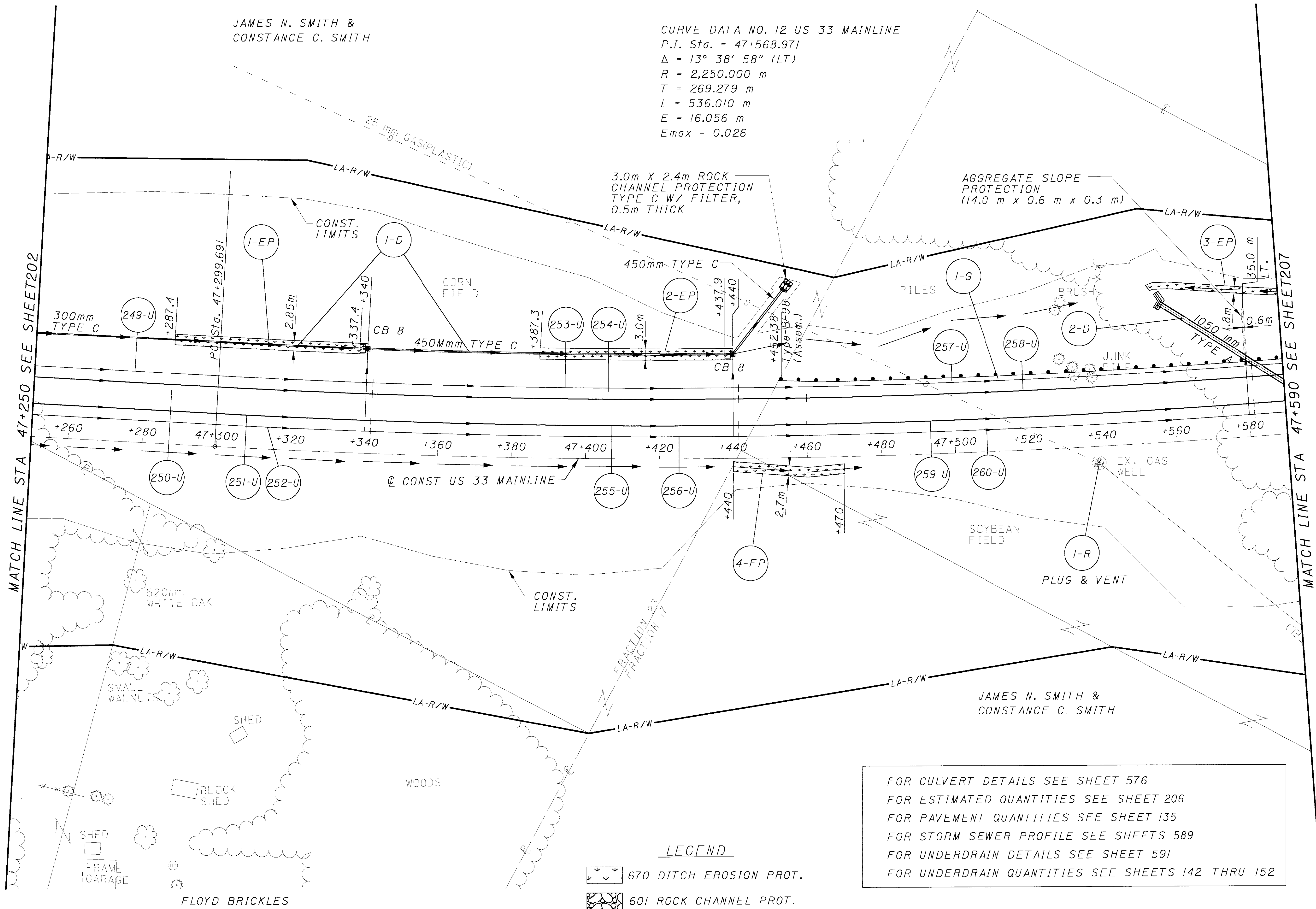
US 33 MAINLINE PLAN
STA. 47+250 TO STA. 47+590

ATH-33-40.981

204
949

JAMES N. SMITH &
CONSTANCE C. SMITH

CURVE DATA NO. 12 US 33 MAINLINE
P.I. Sta. = 47+568.971
 $\Delta = 13^\circ 38' 58''$ (LT)
 $R = 2,250.000$ m
 $T = 269.279$ m
 $L = 536.010$ m
 $E = 16.056$ m
 $E_{max} = 0.026$



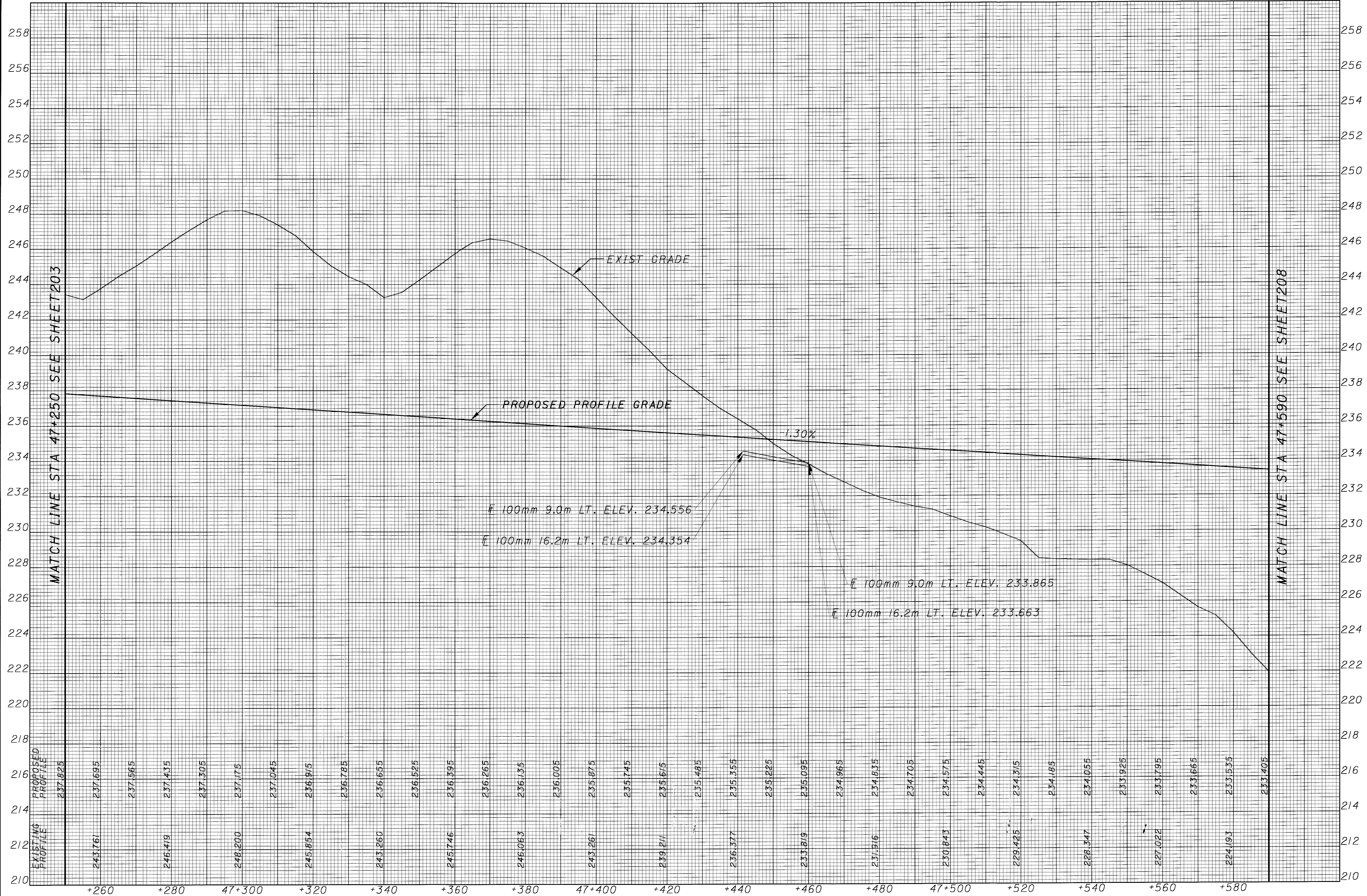
FOR CULVERT DETAILS SEE SHEET 576
 FOR ESTIMATED QUANTITIES SEE SHEET 206
 FOR PAVEMENT QUANTITIES SEE SHEET 135
 FOR STORM SEWER PROFILE SEE SHEETS 589
 FOR UNDERDRAIN DETAILS SEE SHEET 591
 FOR UNDERDRAIN QUANTITIES SEE SHEETS 142 THRU 152

LEGEND

-  670 DITCH EROSION PROT.
-  60I ROCK CHANNEL PROT.

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CALCULATED
 BDD
 CHECKED
 TDW

PROFILE - US 33
 STA. 47+250 TO STA. 47+590

ATH-33-40.981

205
 949

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REF NO.	SHEET NO.	STATION TO STATION			202	202	202	SPEC	601	601	601	602	603	603	603	603	603	604	606	606	606	670		
		TO	FROM	SIDE	FENCE REMOVED METER	BUILDING DEMOLISHED EACH	SEPTIC TANK REMOVED EACH	PLUGGING & VENTING GAS & OIL WELLS EACH	RIRRAP USING 150mm REINFORCED CONCRETE SLAB SQ. M	ROCK CHANNEL PROTECTION TYPE A, W/ FILTER CU. M.	ROCK CHANNEL PROTECTION TYPE C, W/ FILTER CU. M.	CONCRETE MASONRY CU. M.	300mm CONDUIT TYPE C METER	375mm CONDUIT TYPE C METER	450mm CONDUIT TYPE C METER	750mm CONDUIT TYPE A * METER	900mm CONDUIT TYPE A * METER	1050mm CONDUIT TYPE A * METER	CATCH BASIN TYPE 8 EACH	GUARDRAIL TYPE 5 METER	GUARDRAIL TYPE 8 METER	ANCHOR ASSEMBLY TYPE B-98 EACH	POST END ANCHOR EACH	DITCH EROSION PROTECTION SQ. M
1-D	198	46+230	46+440	LT.								100	100	10			3							
1-EP	198	46+241.1	46+292.1	LT.																				100
2-EP	198	46+342.1	46+430	LT.																				204
3-EP	198	46+442.1	46+492.1	LT.																				100
4-EP	198	46+230	46+500	RT.																				932
1-G	198	46+499.76	46+570	LT.														60.96	5.715	1				
1-D	200	46+609	46+720	LT.						1.2	0.2	113					2							
2-D	200	46+866.67	46+910	LT.&RT.							0.5				54									
1-EP	200	46+622.1	46+672.1	LT.																				100
2-EP	200	46+772.1	46+772.1	LT.																				100
3-EP	200	46+900	46+910	LT.																				20
4-EP	200	46+575	46+995	RT.																				51
1-R	200	46+696		RT.<.	131																			
2-R	200	46+820		RT.	33																			
3-R	200	46+840		RT.		4																		
1-G	200	46+570	46+686.45	LT.																	116.205	1		
1-D	202	46+920	47+111	LT.							0.2	191					2							
2-D	202	47+240	47+250	LT.								10					1							
3-D	202	46+190	46+967.399	RT.											71									
4-D	202	47+140.528		LT.&RT.				2.7	10.3	3.4	0.5					77.4								
1-EP	202	46+910	46+917.9	LT.																				16
2-EP	202	46+960	47+017.9	LT.																				182
3-EP	202	47+024.5	47+060	LT.																				112
4-EP	202	47+100	47+132	LT.						40.8														
5-EP	202	47+187.9	47+237.9	LT.																				113
1-R	202	46+987	47+055	LT	108																			
2-R	202	47+013		LT		1																		
3-R	202	47+151		LT.&RT.	128																			
4-R	202	46+990		LT																				
1-D	204	47+250	47+454	LT.						3.6	0.3	90		123			2							
2-D	204	47+557.128	47+510	LT.							6.7					40								
1-EP	204	47+287.4	47+337.5	LT																				143
2-EP	204	47+387.3	47+437.9	LT																				150
3-EP	204	47+555	47+590	LT.																				63
4-EP	204	47+440	47+490	RT.																				81
1-R	204	47+539,5.0m Rt		RT																				
1-G	204	47+452.38	47+590	LT																				
* SEE CULVERT DETAIL SHEETS FOR FULL CULVERT DESCRIPTIONS																								
TOTALS THIS SHEET					400	5	1	1	3	10.3	49.0	9.8	504	100	133	125	77.4	40	10	133.35	1			2467
TOTALS CARRIED TO GENERAL SUMMARY					400	5	1	1	2.7	11	49	9.8	504	100	133	125	77.5	40	10	194.31	121.92	2	1	2467

CALCULATED
 BEG
 CHECKED
 TDW
ESTIMATED QUANTITIES - STA. 46+230 TO STA. 47+590
ATH-33-40.981
 206
 949

LEGEND

-  670 DITCH EROSION PROT.
-  601 ROCK CHANNEL PROT.

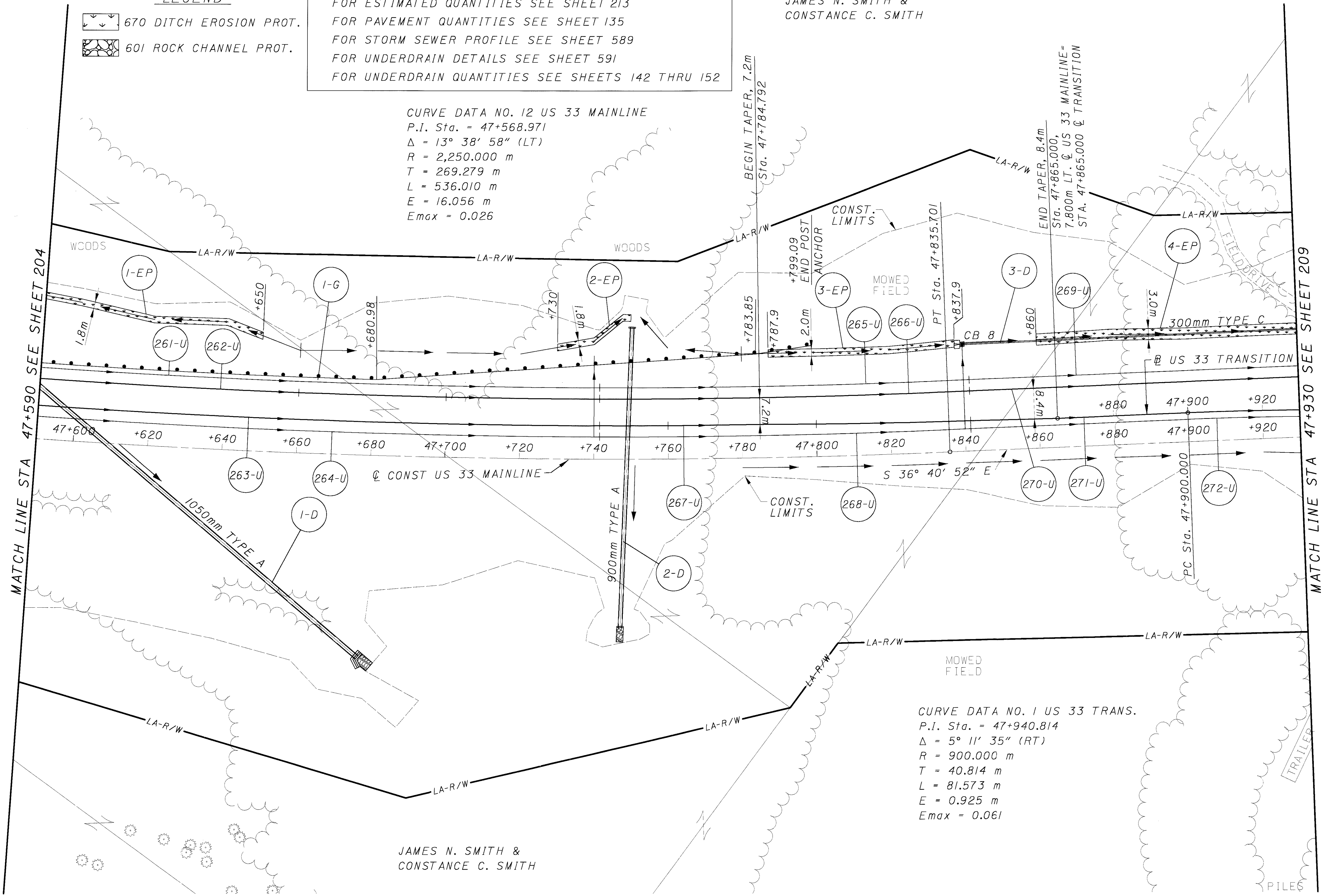
FOR CULVERT DETAILS SEE SHEETS 576 AND 577
 FOR ESTIMATED QUANTITIES SEE SHEET 213
 FOR PAVEMENT QUANTITIES SEE SHEET 135
 FOR STORM SEWER PROFILE SEE SHEET 589
 FOR UNDERDRAIN DETAILS SEE SHEET 591
 FOR UNDERDRAIN QUANTITIES SEE SHEETS 142 THRU 152

JAMES N. SMITH &
 CONSTANCE C. SMITH

CURVE DATA NO. 12 US 33 MAINLINE
 P.I. Sta. = 47+568.971
 $\Delta = 13^\circ 38' 58''$ (LT)
 R = 2,250.000 m
 T = 269.279 m
 L = 536.010 m
 E = 16.056 m
 E_{max} = 0.026

CURVE DATA NO. 1 US 33 TRANS.
 P.I. Sta. = 47+940.814
 $\Delta = 5^\circ 11' 35''$ (RT)
 R = 900.000 m
 T = 40.814 m
 L = 81.573 m
 E = 0.925 m
 E_{max} = 0.061

JAMES N. SMITH &
 CONSTANCE C. SMITH



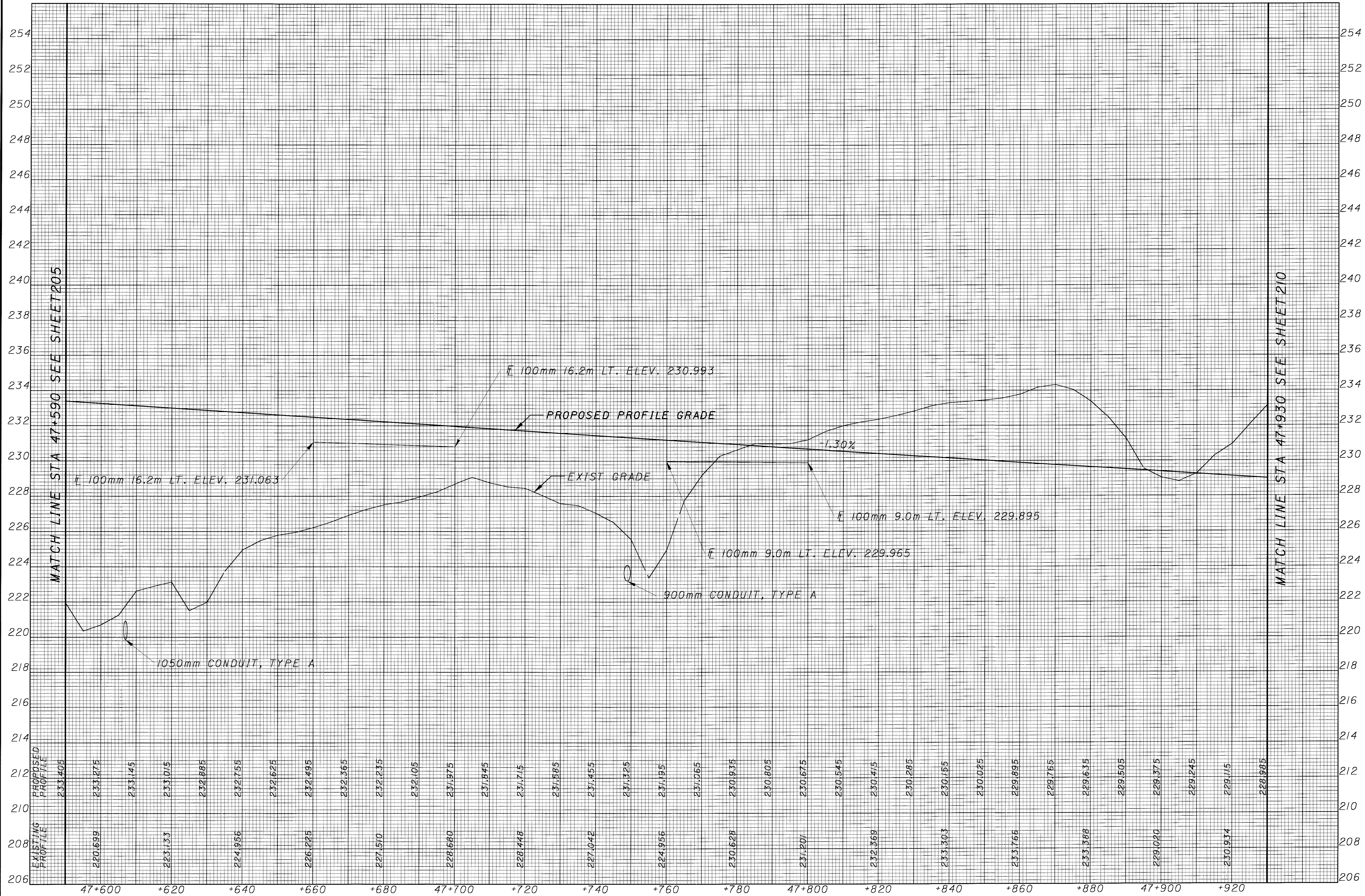
CALCULATED
 BBD
 CHECKED
 TDM

0 10 20
 HORIZONTAL
 SCALE IN METERS

**US 33 MAINLINE PLAN
 STA. 47+590 TO STA. 47+930**

ATH-33-40.981

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CALCULATED
 BDD
 CHECKED
 TDW

PROFILE - US 33
STA. 47+590 TO STA. 47+930

ATH-33-40.981

208
 949



0 10 20
HORIZONTAL
SCALE IN METERS

CALCULATED
BDD
CHECKED
TDW

US 33 MAINLINE PLAN
STA. 47+930 TO STA. 48+270

ATH-33-40.981

209
949

LEGEND

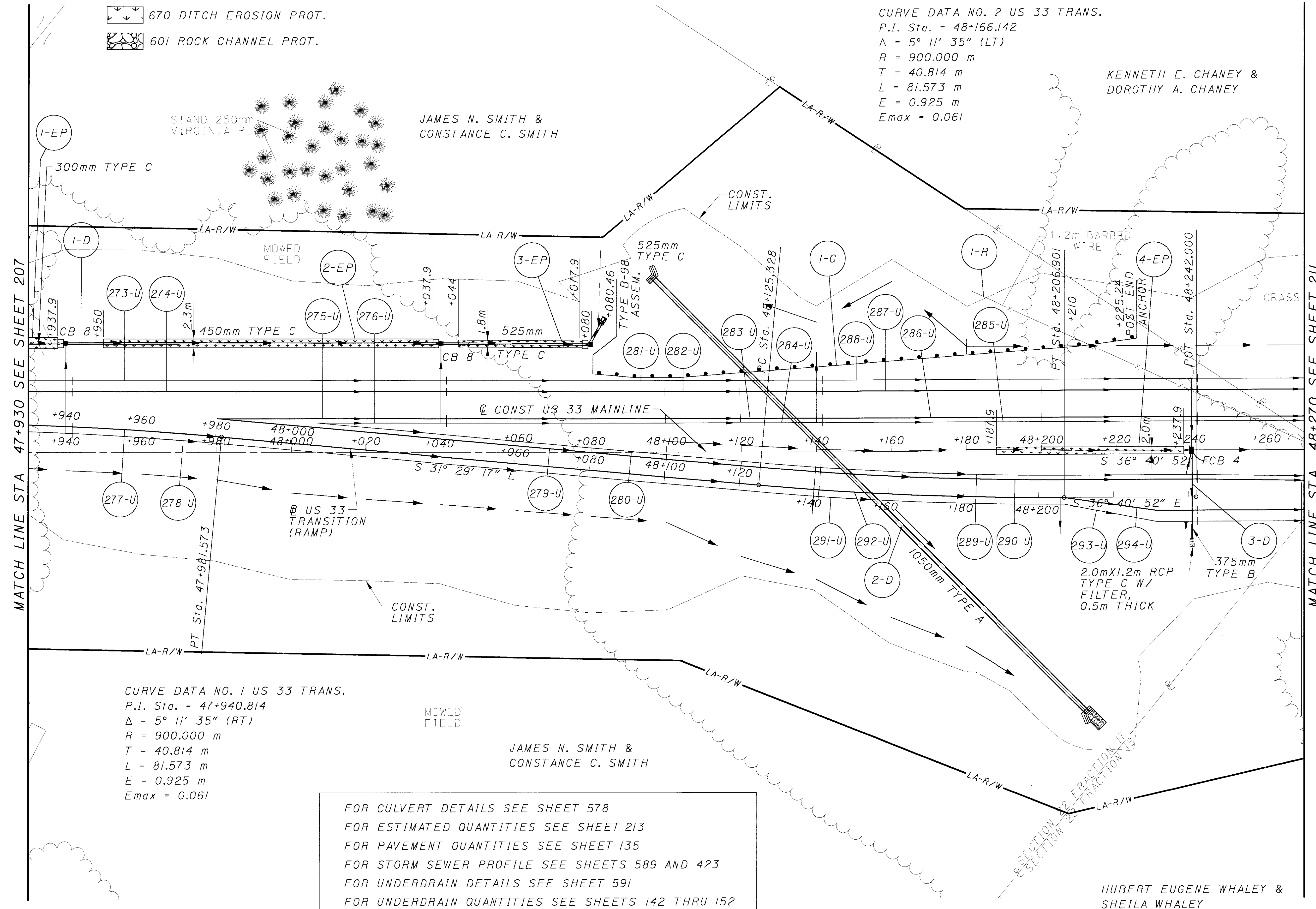
- 670 DITCH EROSION PROT.
- 60I ROCK CHANNEL PROT.

CURVE DATA NO. 2 US 33 TRANS.
 P.I. Sta. = 48+166.142
 $\Delta = 5^\circ 11' 35''$ (LT)
 $R = 900.000$ m
 $T = 40.814$ m
 $L = 81.573$ m
 $E = 0.925$ m
 $E_{max} = 0.061$

KENNETH E. CHANEY &
DOROTHY A. CHANEY

JAMES N. SMITH &
CONSTANCE C. SMITH

STAND 250mm
VIRGINIA PI



CURVE DATA NO. 1 US 33 TRANS.
 P.I. Sta. = 47+940.814
 $\Delta = 5^\circ 11' 35''$ (RT)
 $R = 900.000$ m
 $T = 40.814$ m
 $L = 81.573$ m
 $E = 0.925$ m
 $E_{max} = 0.061$

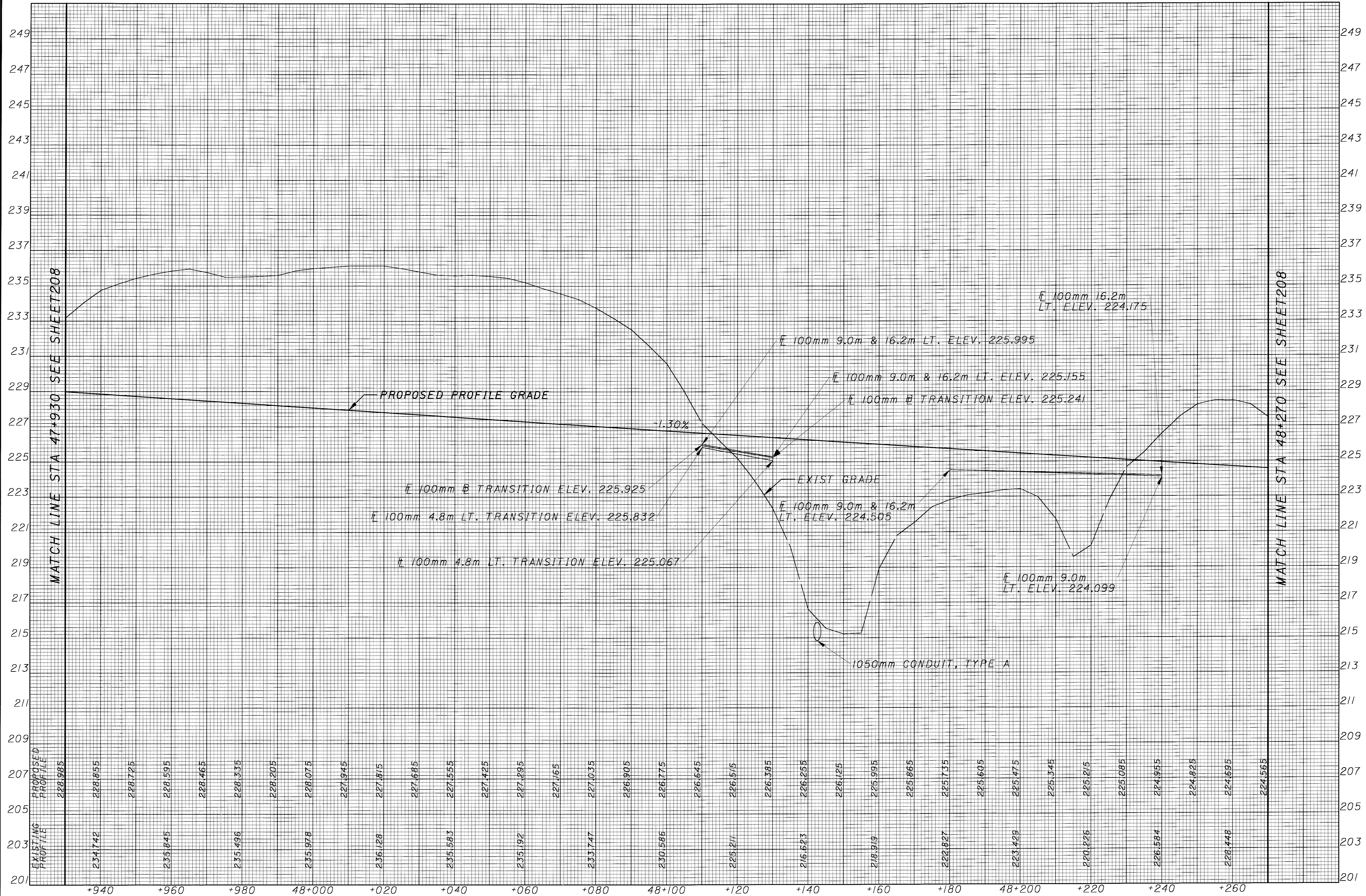
JAMES N. SMITH &
CONSTANCE C. SMITH

HUBERT EUGENE WHALEY &
SHEILA WHALEY

FOR CULVERT DETAILS SEE SHEET 578
 FOR ESTIMATED QUANTITIES SEE SHEET 213
 FOR PAVEMENT QUANTITIES SEE SHEET 135
 FOR STORM SEWER PROFILE SEE SHEETS 589 AND 423
 FOR UNDERDRAIN DETAILS SEE SHEET 591
 FOR UNDERDRAIN QUANTITIES SEE SHEETS 142 THRU 152

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MATCH LINE STA 47+930 SEE SHEET 208

MATCH LINE STA 48+270 SEE SHEET 208

CALCULATED
 BDD
 CHECKED
 TDW

PROFILE - US 33
 STA. 47+930 TO STA. 48+270

ATH-33-40.981

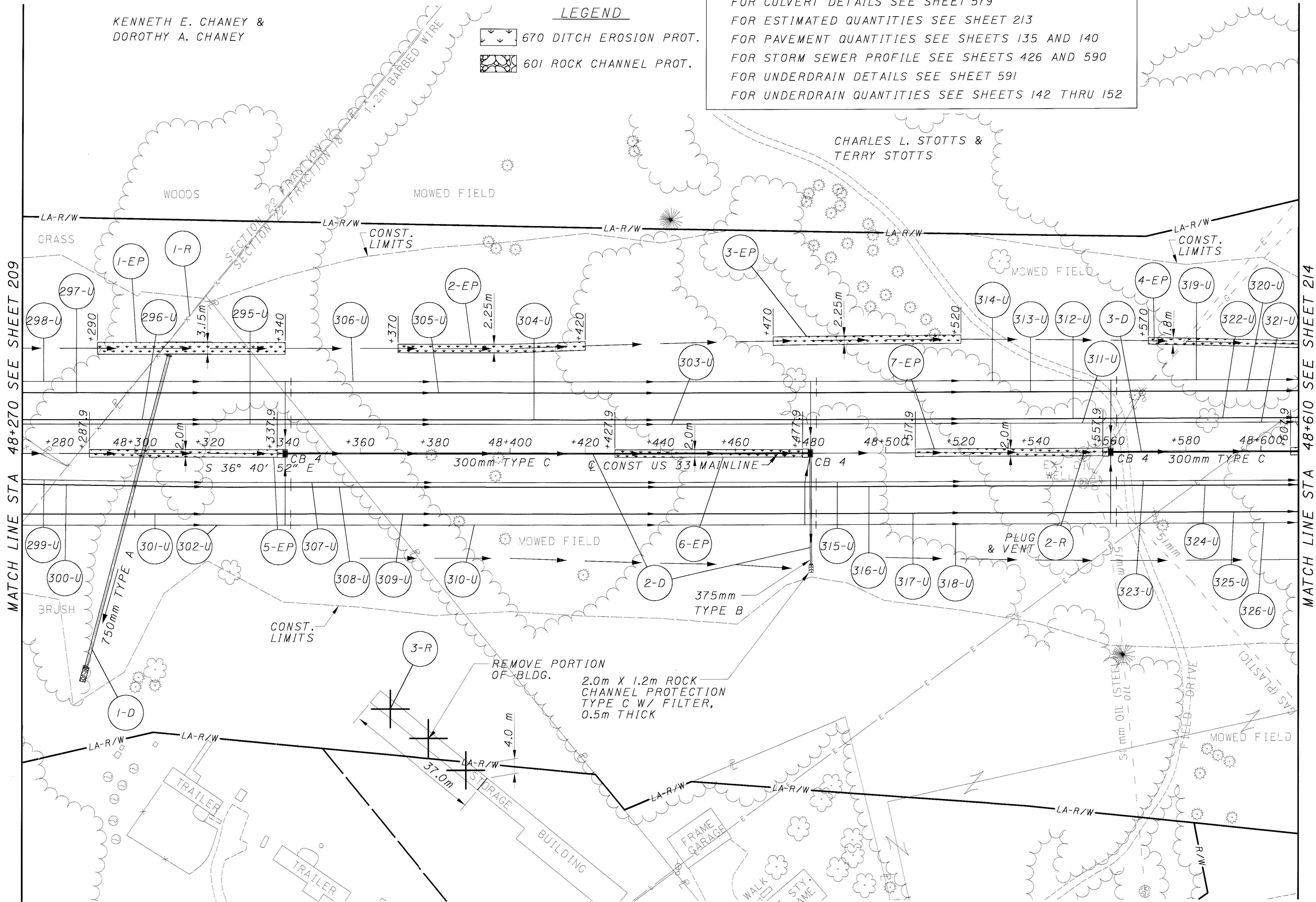
210
 949

KENNETH E. CHANEY &
DOROTHY A. CHANEY

LEGEND

-  670 DITCH EROSION PROT.
-  601 ROCK CHANNEL PROT.

FOR CULVERT DETAILS SEE SHEET 579
FOR ESTIMATED QUANTITIES SEE SHEET 213
FOR PAVEMENT QUANTITIES SEE SHEETS 135 AND 140
FOR STORM SEWER PROFILE SEE SHEETS 426 AND 590
FOR UNDERDRAIN DETAILS SEE SHEET 591
FOR UNDERDRAIN QUANTITIES SEE SHEETS 142 THRU 152



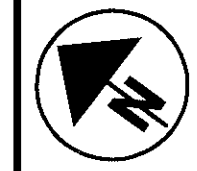
MATCH LINE STA 48+270 SEE SHEET 209

MATCH LINE STA 48+610 SEE SHEET 214

HUBERT EUGENE WHALEY &
SHEILA WHALEY

JERRY E. FIELDS JR.

CHARLES L. STOTTS &
TERRY STOTTS

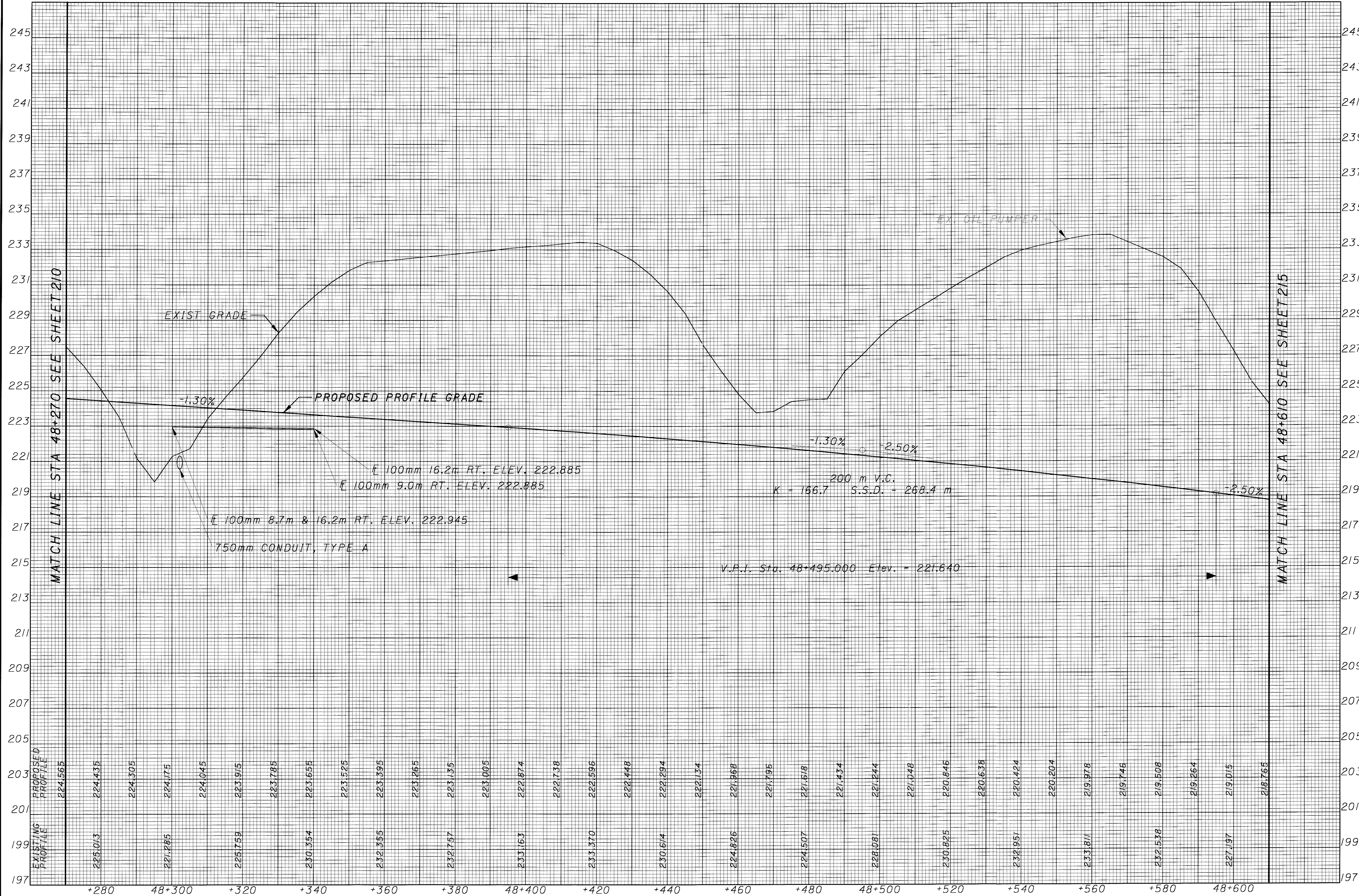


CALCULATED
BDD
CHECKED
TDW

US 33 MAINLINE PLAN
STA. 48+270 TO STA. 48+610

ATH-33-40.981

211
949



CALCULATED
 BBD
 CHECKED
 TDW

PROFILE - US 33
 STA. 48+270 TO STA. 48+610

ATH-33-40.981

212
 949

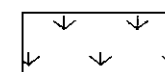

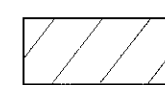
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		202	202	SPEC	601	601	601	602	603	603	603	603	603	603	604	606	606	606	670								
		TO	FROM	SIDE	METER	LUMP	EACH	CU. M	CU. M.	CU. M.	CU. M.	METER	METER	METER	METER	METER	METER	EACH	METER	METER	EACH	SQ. M					
1-D	207	45+590	47-677.9	LT.&RT.					7.6		6.7						112.3										
2-D	207	45+748.890		LT.&RT.					5.3		1.4					81.1											
3-D	207	47+840	47+930	LT.								90						1									
1-EP	207	47+590	47+650	LT																		106					
2-EP	207	47+730	47+750	LT																		38					
3-EP	207	47+787.9	47+837.9	LT																		100					
4-EP	207	47+860	47+930	LT																		210					
1-G	207	47+590	47+779.09	LT															91.44	118.11	1						
1-D	209	47+930	48+083	LT						3.6	0.3	10		100	46				3								
2-D	209	48+142.751		LT.&RT.			16.8										165.1										
3-D	209	48+240		RT.						1.2	0.2		25.2					1									
1-EP	209	47+930	47+937.9	LT.																		24					
2-EP	209	47+950	48+037.9	LT.																		202					
3-EP	209	48+044	48+077.9	LT.																		61					
4-EP	209	48+187.9	48+237.9	C.L.																		100					
1-R	209	48+181	48+270	LT	98																						
1-G	209	48+080.46	48+225.24	LT															19.05	121.92	1	1					
1-D	211	48+302.124		LT.&RT.					4.2		1.1				86.5												
2-D	211	48+340	48+480	C.L.						1.2	0.2	140	28.2						2								
3-D	211	48+560	48+610	C.L.								50							1								
1-EP	211	48+290	48+340	LT																		158					
2-EP	211	48+370	48+420	LT																		113					
3-EP	211	48+470	48+520	LT																		113					
4-EP	211	48+570	48+610	LT																		72					
5-EP	211	48+289.9	48+337.9	C.L.																		100					
6-EP	211	48+427.9	48+477.9	C.L.																		100					
7-EP	211	48+517.9	48+557.9	C.L.																		100					
1-R	211	48+270	48+335	LT.&RT.	103																						
2-R	211	48+552		C.L.																							
3-R	211	48+365,65.0m	RT	RT.		LUMP																					
* SEE CULVERT DETAIL SHEETS FOR FULL CULVET DESCRIPTIONS																											
TOTALS THIS SHEET					201	LUMP	1	16.8	17.1	6	23.21	290	53.4	100	46	86.5	81.1	112.3	165.1	4	4	110.49	240.03	1	2	1597	
TOTALS CARRIED TO GENERAL SUMMARY					201	LUMP	1	17	18	6	23.2	290	53.5	100	46	86.5	81.5	112.5	165.5	4	4	110.49	240.03	1	2	1597	

ESTIMATED QUANTITIES - STA. 47+590 TO STA. 48+610

ATH-33-40.981

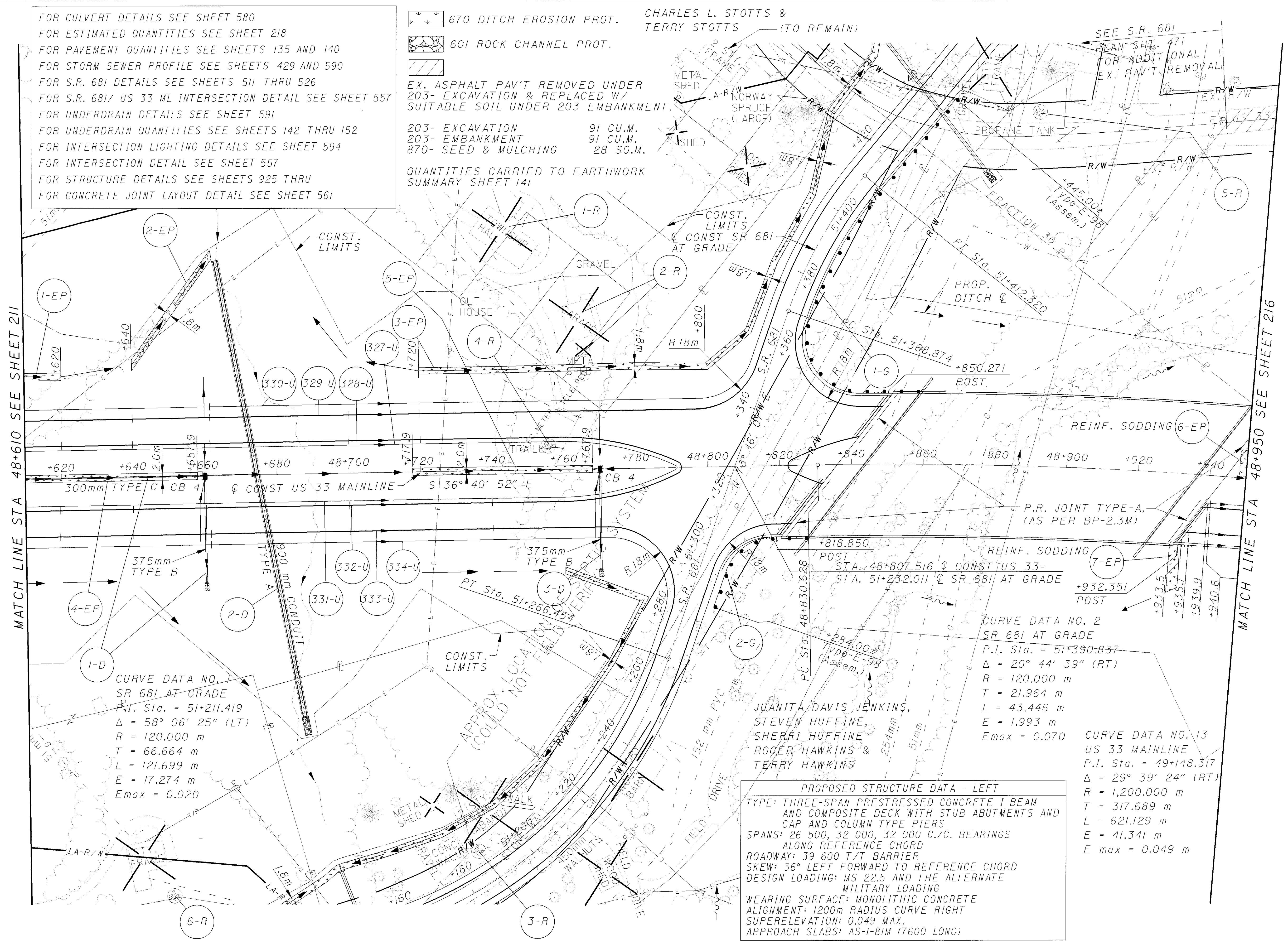
FOR CULVERT DETAILS SEE SHEET 580
 FOR ESTIMATED QUANTITIES SEE SHEET 218
 FOR PAVEMENT QUANTITIES SEE SHEETS 135 AND 140
 FOR STORM SEWER PROFILE SEE SHEETS 429 AND 590
 FOR S.R. 681 DETAILS SEE SHEETS 511 THRU 526
 FOR S.R. 681/ US 33 ML INTERSECTION DETAIL SEE SHEET 557
 FOR UNDERDRAIN DETAILS SEE SHEET 591
 FOR UNDERDRAIN QUANTITIES SEE SHEETS 142 THRU 152
 FOR INTERSECTION LIGHTING DETAILS SEE SHEET 594
 FOR INTERSECTION DETAIL SEE SHEET 557
 FOR STRUCTURE DETAILS SEE SHEETS 925 THRU
 FOR CONCRETE JOINT LAYOUT DETAIL SEE SHEET 561

-  670 DITCH EROSION PROT.
-  601 ROCK CHANNEL PROT.
-  EX. ASPHALT PAV'T REMOVED UNDER 203- EXCAVATION & REPLACED W/ SUITABLE SOIL UNDER 203 EMBANKMENT.

203- EXCAVATION 91 CU.M.
 203- EMBANKMENT 91 CU.M.
 870- SEED & MULCHING 28 SQ.M.

QUANTITIES CARRIED TO EARTHWORK SUMMARY SHEET 141

CHARLES L. STOTTS & TERRY STOTTS (TO REMAIN)



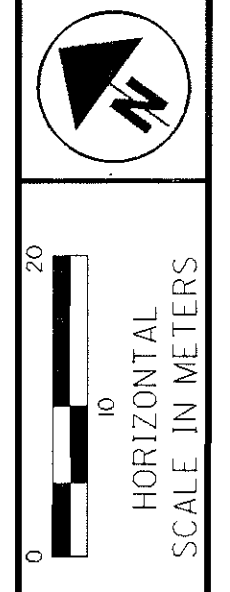
CURVE DATA NO. 1
 SR 681 AT GRADE
 P.I. Sta. = 51+211.419
 $\Delta = 58^\circ 06' 25''$ (LT)
 R = 120.000 m
 T = 66.664 m
 L = 121.699 m
 E = 17.274 m
 Emax = 0.020

CURVE DATA NO. 2
 SR 681 AT GRADE
 P.I. Sta. = 51+390.837
 $\Delta = 20^\circ 44' 39''$ (RT)
 R = 120.000 m
 T = 21.964 m
 L = 43.446 m
 E = 1.993 m
 Emax = 0.070

CURVE DATA NO. 13
 US 33 MAINLINE
 P.I. Sta. = 49+148.317
 $\Delta = 29^\circ 39' 24''$ (RT)
 R = 1,200.000 m
 T = 317.689 m
 L = 621.129 m
 E = 41.341 m
 E max = 0.049 m

PROPOSED STRUCTURE DATA - LEFT
 TYPE: THREE-SPAN PRESTRESSED CONCRETE I-BEAM AND COMPOSITE DECK WITH STUB ABUTMENTS AND CAP AND COLUMN TYPE PIERS
 SPANS: 26 500, 32 000, 32 000 C./C. BEARINGS ALONG REFERENCE CHORD
 ROADWAY: 39 600 T/T BARRIER
 SKEW: 36° LEFT FORWARD TO REFERENCE CHORD
 DESIGN LOADING: MS 22.5 AND THE ALTERNATE MILITARY LOADING
 WEARING SURFACE: MONOLITHIC CONCRETE
 ALIGNMENT: 1200m RADIUS CURVE RIGHT
 SUPERELEVATION: 0.049 MAX.
 APPROACH SLABS: AS-1-81M (7600 LONG)

JUANITA DAVIS JENKINS,
 STEVEN HUFFINE,
 SHERRI HUFFINE,
 ROGER HAWKINS &
 TERRY HAWKINS



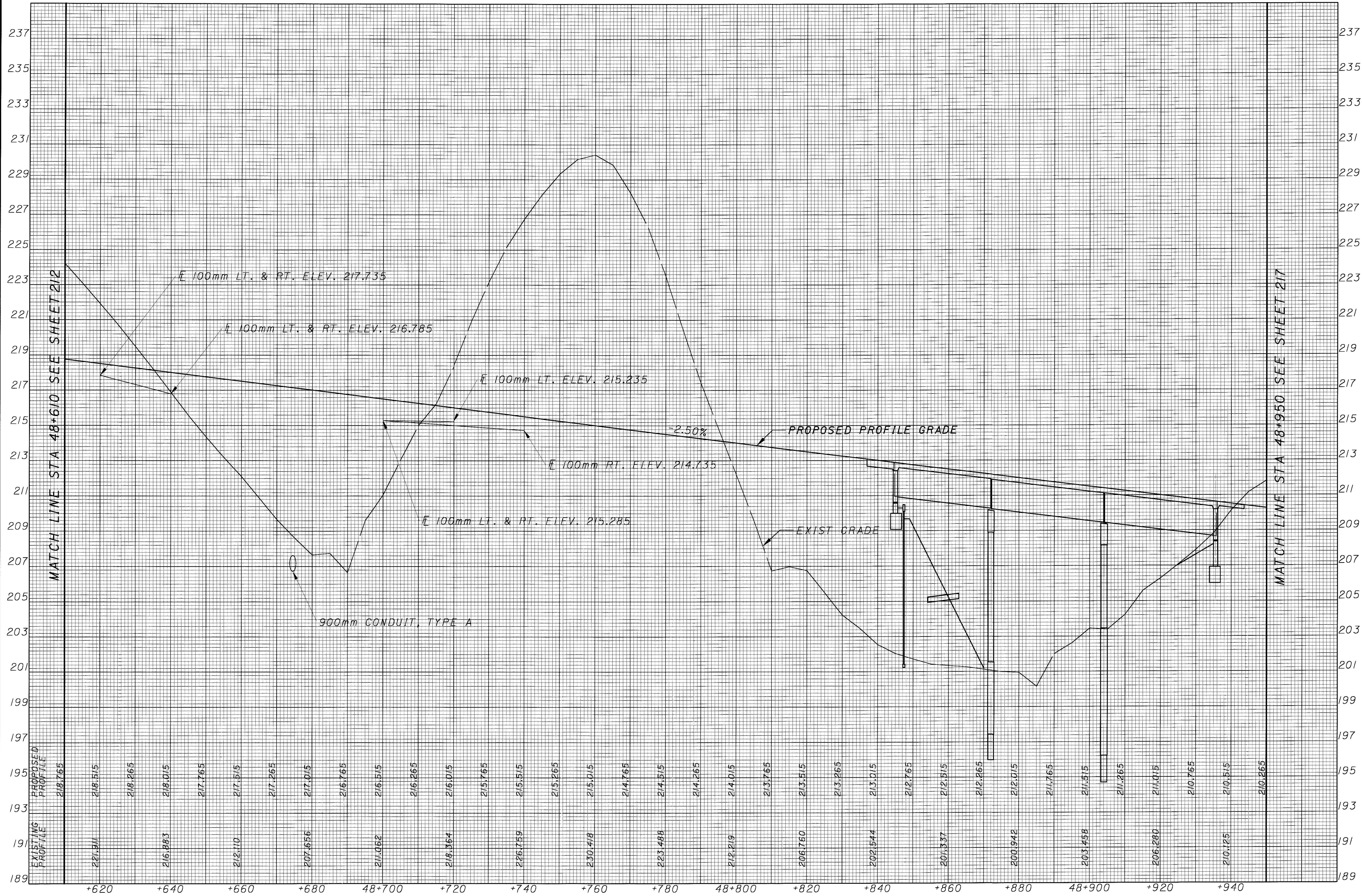
CALCULATED: BBD
 CHECKED: TDW

US 33 MAINLINE PLAN
STA. 48+610 TO STA. 48+950

ATH-33-40.981

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MATCH LINE STA 48+610 SEE SHEET 212

MATCH LINE STA 48+950 SEE SHEET 217

CALCULATED
 BBD
 CHECKED
 TDW

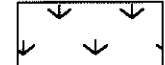

PROFILE - US 33
 STA. 48+610 TO STA. 48+950

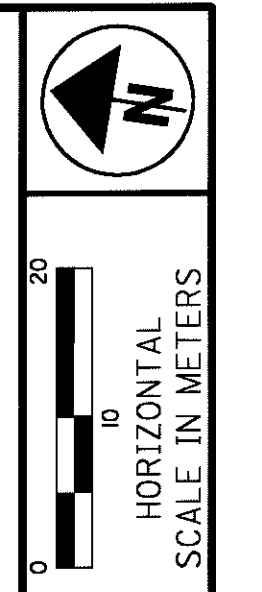
ATH-33-40.981

215
 949

FOR ESTIMATED QUANTITIES SEE SHEET 223
 FOR PAVEMENT QUANTITIES SEE SHEETS 135 THRU 140
 FOR STORM SEWER PROFILES SEE SHEETS 456 THRU 590
 FOR UNDERDRAIN DETAILS SEE SHEET 591
 FOR UNDERDRAIN QUANTITIES SEE SHEETS 142 THRU 152

LEGEND

-  670 DITCH EROSION PROT.
-  601 ROCK CHANNEL PROT.

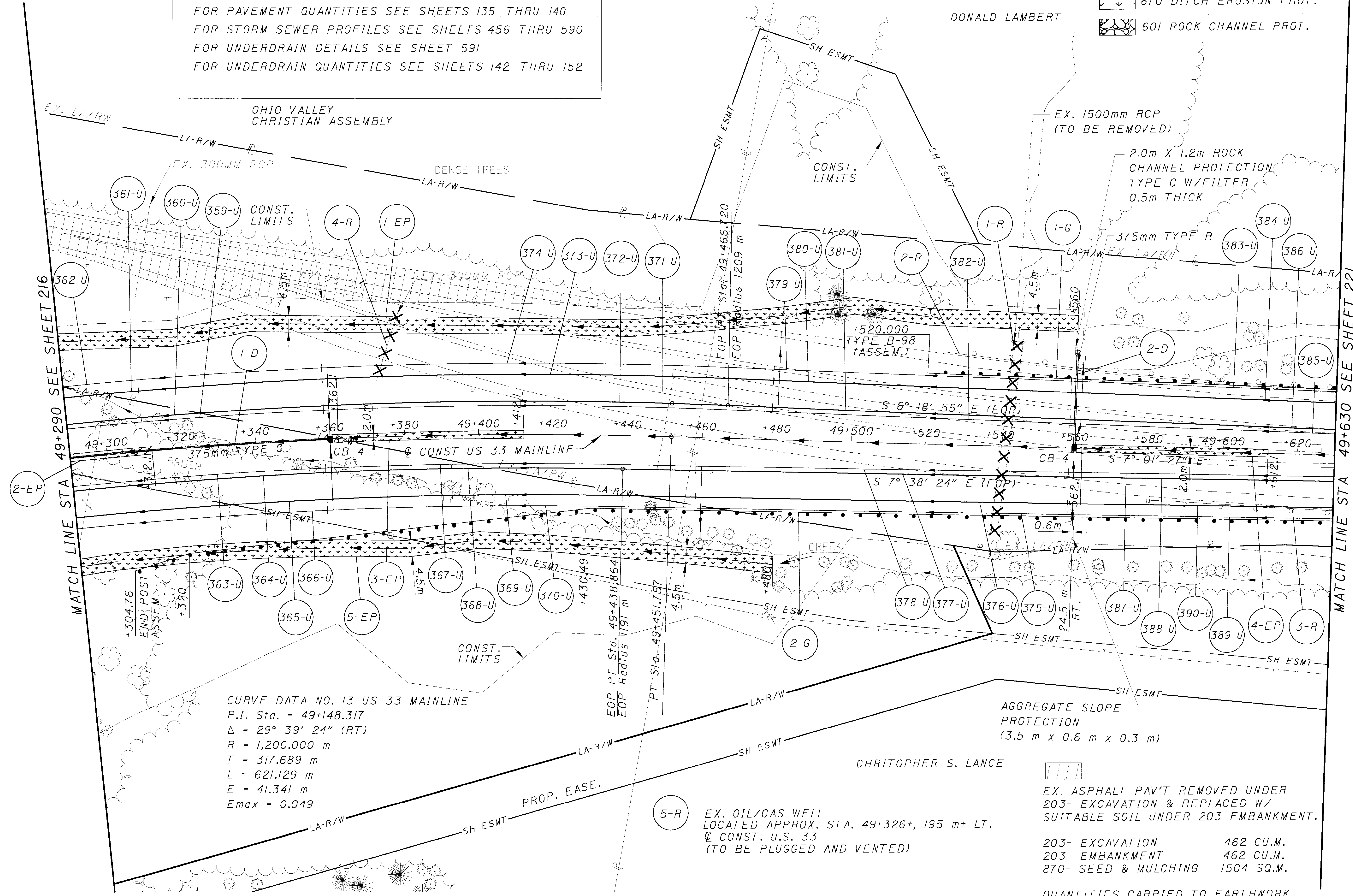


CALCULATED
 BDD
 CHECKED
 TDW

US 33 MAINLINE PLAN
 STA. 49+290 TO STA. 49+630

ATH-33-40.981

219
 949



CURVE DATA NO. 13 US 33 MAINLINE
 P.I. Sta. = 49+148.317
 $\Delta = 29^\circ 39' 24''$ (RT)
 $R = 1,200.000$ m
 $T = 317.689$ m
 $L = 621.129$ m
 $E = 41.341$ m
 $E_{max} = 0.049$

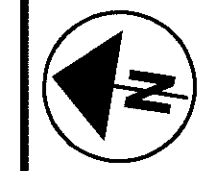
AGGREGATE SLOPE PROTECTION
 (3.5 m x 0.6 m x 0.3 m)

EX. ASPHALT PAV'T REMOVED UNDER
 203- EXCAVATION & REPLACED W/
 SUITABLE SOIL UNDER 203 EMBANKMENT.

203- EXCAVATION	462 CU.M.
203- EMBANKMENT	462 CU.M.
870- SEED & MULCHING	1504 SQ.M.

QUANTITIES CARRIED TO EARTHWORK
 SUMMARY SHEET 141

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20
10
0
HORIZONTAL
SCALE IN METERS

CALCULATED
BDD
CHECKED
TDW

US 33 MAINLINE PLAN
STA. 49+630 TO STA. 49+890.950

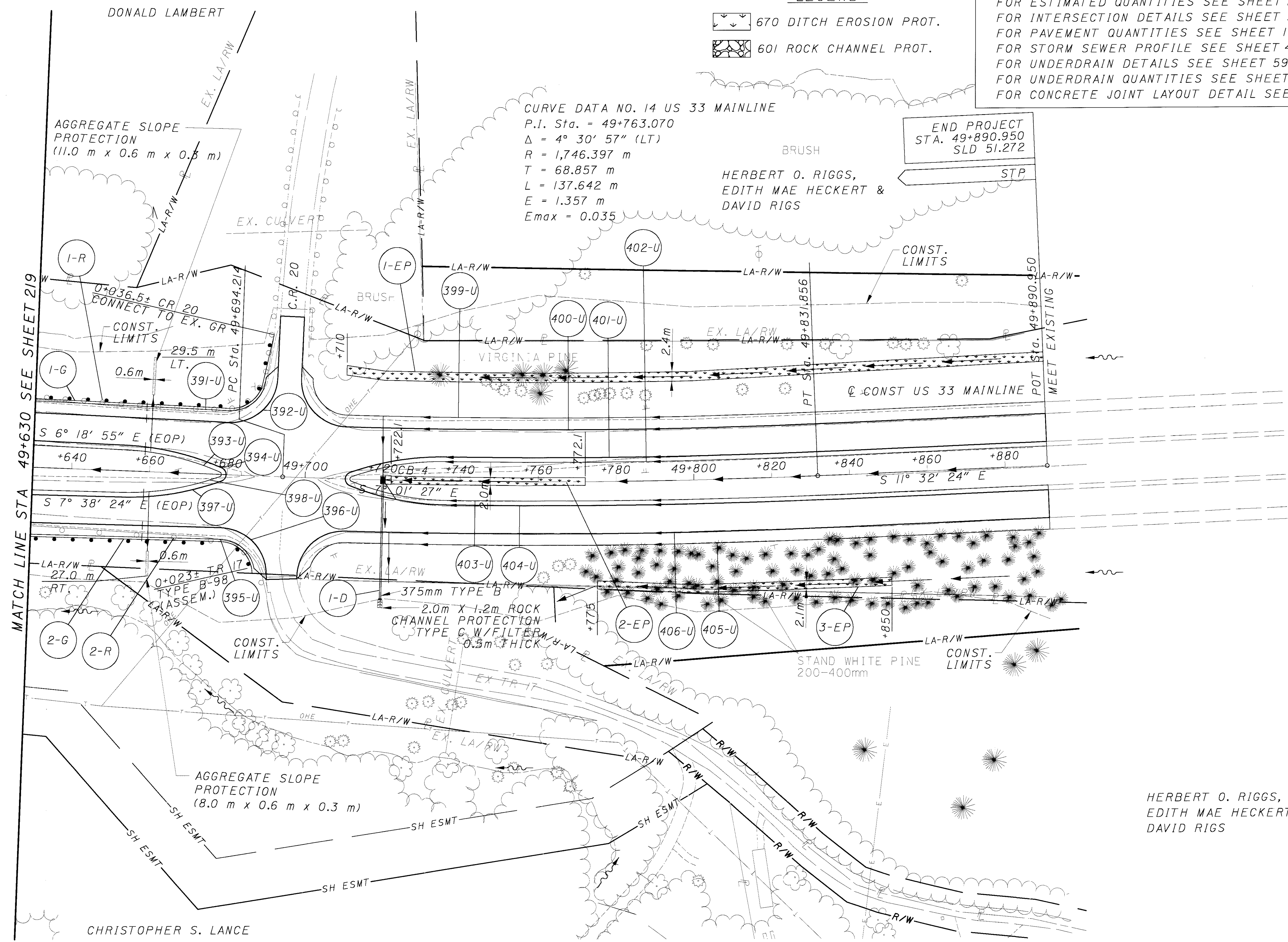
ATH-33-40.981

221
949

LEGEND

-  670 DITCH EROSION PROT.
-  601 ROCK CHANNEL PROT.

FOR C.R. 20 & T.R. 17 PROFILES SEE SHEET 458
 FOR ESTIMATED QUANTITIES SEE SHEET 223
 FOR INTERSECTION DETAILS SEE SHEET 559
 FOR PAVEMENT QUANTITIES SEE SHEET 135 THRU 140
 FOR STORM SEWER PROFILE SEE SHEET 459
 FOR UNDERDRAIN DETAILS SEE SHEET 591
 FOR UNDERDRAIN QUANTITIES SEE SHEETS 142 THRU 152
 FOR CONCRETE JOINT LAYOUT DETAIL SEE SHEET 562



END PROJECT
 STA. 49+890.950
 SLD 51.272

HERBERT O. RIGGS,
 EDITH MAE HECKERT &
 DAVID RIGS

AGGREGATE SLOPE
 PROTECTION
 (11.0 m x 0.6 m x 0.3 m)

AGGREGATE SLOPE
 PROTECTION
 (8.0 m x 0.6 m x 0.3 m)

2.0m X 1.2m ROCK
 CHANNEL PROTECTION
 TYPE C W/FILTER
 0.5m THICK

STAND WHITE PINE
 200-400mm

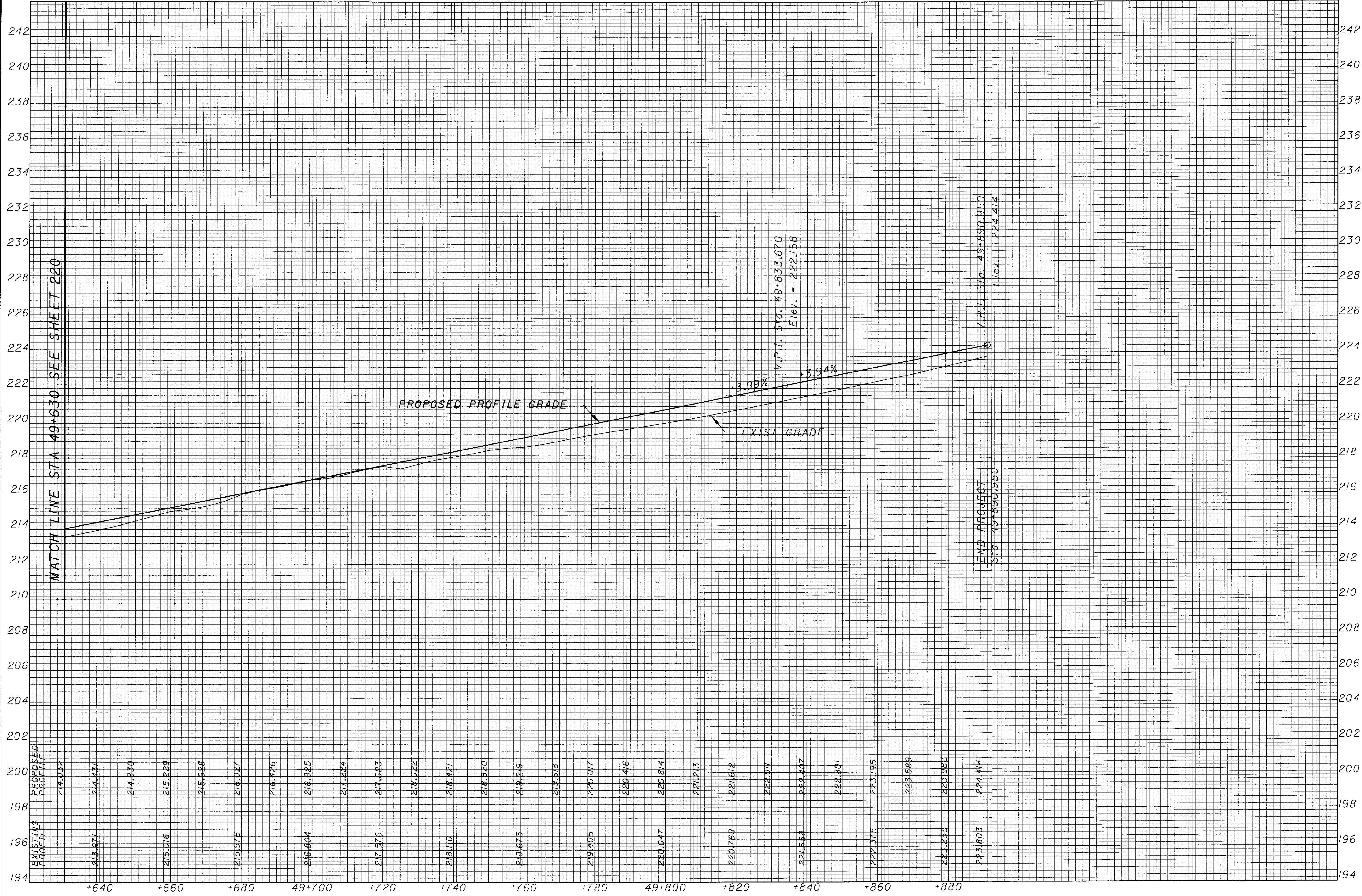
HERBERT O. RIGGS,
 EDITH MAE HECKERT &
 DAVID RIGS

MATCH LINE STA 49+630 SEE SHEET 219

CHRISTOPHER S. LANCE

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MATCH LINE STA 49+630 SEE SHEET 220

PROPOSED PROFILE GRADE

EXIST GRADE

V.P.I. Sta. 49+833.670
 Elev. = 222.158

END PROJECT
 Sta. 49+890.950
 Elev. = 224.414

CALCULATED
 BDD
 CHECKED
 TOW

PROFILE - US 33
 STA. 49+630 TO STA. 49+890.950

ATH-33-40.981

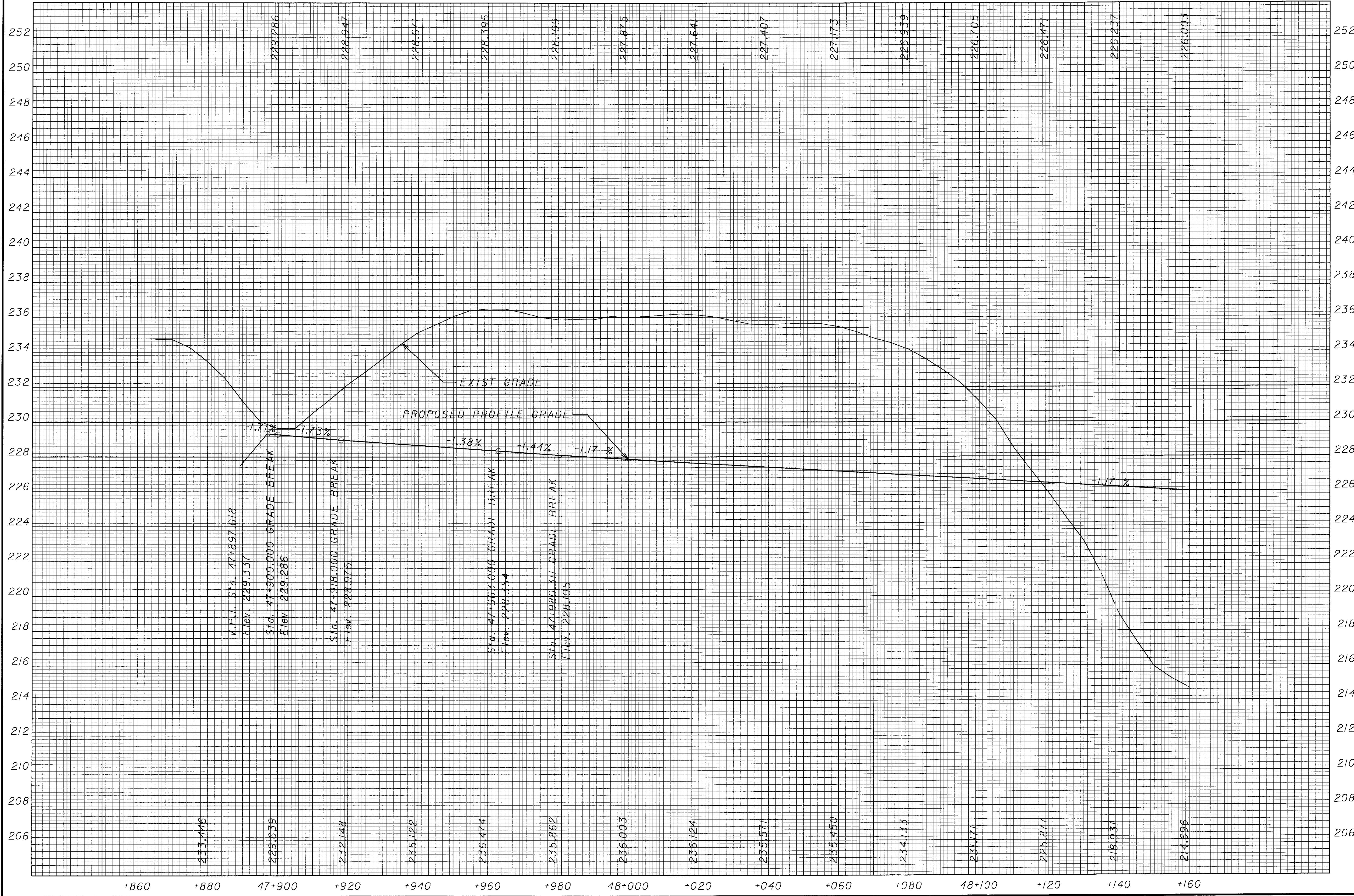
222
 949

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REF NO.	SHEET NO.	STATION TO STATION			202	202	202	SPEC	601	602		603	603		604		606	606	606	606		670
		TO	FROM	SIDE	PIPE REMOVED 600mm & UNDER METER	PIPE REMOVED OVER 600mm METER	GUARDRAIL REMOVED METER	PLUGGED & VENTING GAS & OIL WELLS EACH	ROCK CHANNEL PROTECTION TYPE C, W/ FILTER CU. M.	CONCRETE MASONRY CU. M.		300mm CONDUIT TYPE C METER	375mm CONDUIT TYPE B METER		CATCH BASIN NO. 4 EACH		GUARDRAIL TYPE 5 METER	GUARDRAIL TYPE 8 METER	ANCHOR ASSEMBLY TYPE B-98 EACH	POST END ANCHOR EACH		DITCH EROSION PROTECTION SQ. M
1-D	219	49+290	49+360	C.L.							70			1								
2-D	219	49+560		LT.				1.2	0.2			25.1		1								
1-EP	219	49+290	49+560	LT.																		1238
2-EP	219	49+290	49+312.1	C.L.																		44
3-EP	219	49+362.1	49+412.1	C.L.																		100
4-EP	219	49+562.1	49+612.1	C.L.																		100
5-EP	219	49+290	49+480	RT.																		833
1-R	219	49+541.5		LT.&RT.		52																
2-R	219	49+526	49+630	LT																		
3-R	219	49+580	49+630	RT																		105
4-R	219	49+376		LT.&RT.	18																	50
5-R	219	49+326 +, 195m RT +		RT																		1
1-G	219	49+520	49+630	LT.																		106.19
2-G	219	49+304.76	49+630	RT.																		199.51
																						125.73
1-D	221	49+720		RT				1.2	0.2			30.5		1								
1-EP	221	49+710	49+890.95	LT																		190
2-EP	221	49+722.1	49+772.1	C.L.																		100
3-EP	221	49+775	49+850	RT																		158
1-R	221	49+630	49+691	LT																		79
2-R	221	49+630	49+690	RT																		65
1-G	221	49+630(US33)	0+036.5(CR20)	LT																		76.69
2-G	221	49+630(US33)	0+023(TR17)	RT																		51.95
* SEE CULVERT DETAIL SHEETS FOR FULL CULVERT DESCRIPTIONS																						
TOTALS THIS SHEET					18	52	299	1	2.4	0.44		70	55.6		3		434.34	125.73	2	1		2763
TOTALS CARRIED TO GENERAL SUMMARY					18	52	299	1	3	0.4		70	56		3		434.34	125.73	2	1		2763

CALCULATED
 BBG
 CHECKED
 TDW
ESTIMATED QUANTITIES - STA. 49+290 TO STA. 49+890.95
ATH-33-40.981
 (223)
 949

* SEE CULVERT DETAIL SHEETS FOR CULVERT TYPES



CALCULATED
 BDD
 CHECKED
 TDW

PROFILE - US 33 TRANSITION 2 LANES TO 4 LANES
 STA 47+850.000 TO STA 48+160.000

ATH-33-40.981

224
 949

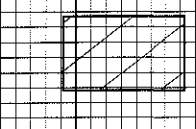
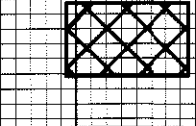

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SEEDING
 END SO.
 WIDTH METERS

END AREA
 CUT FILL
 VOLUME
 CUT FILL
 CALCULATED
 BBO
 CHECKED
 TDW



87

-  EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
-  MATERIAL TO BE REMOVED AND RECOMPACTED
-  GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

972	0
*6	
ROCK TOTAL	
0	0

SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS - US 33
 STA. 39+600.000

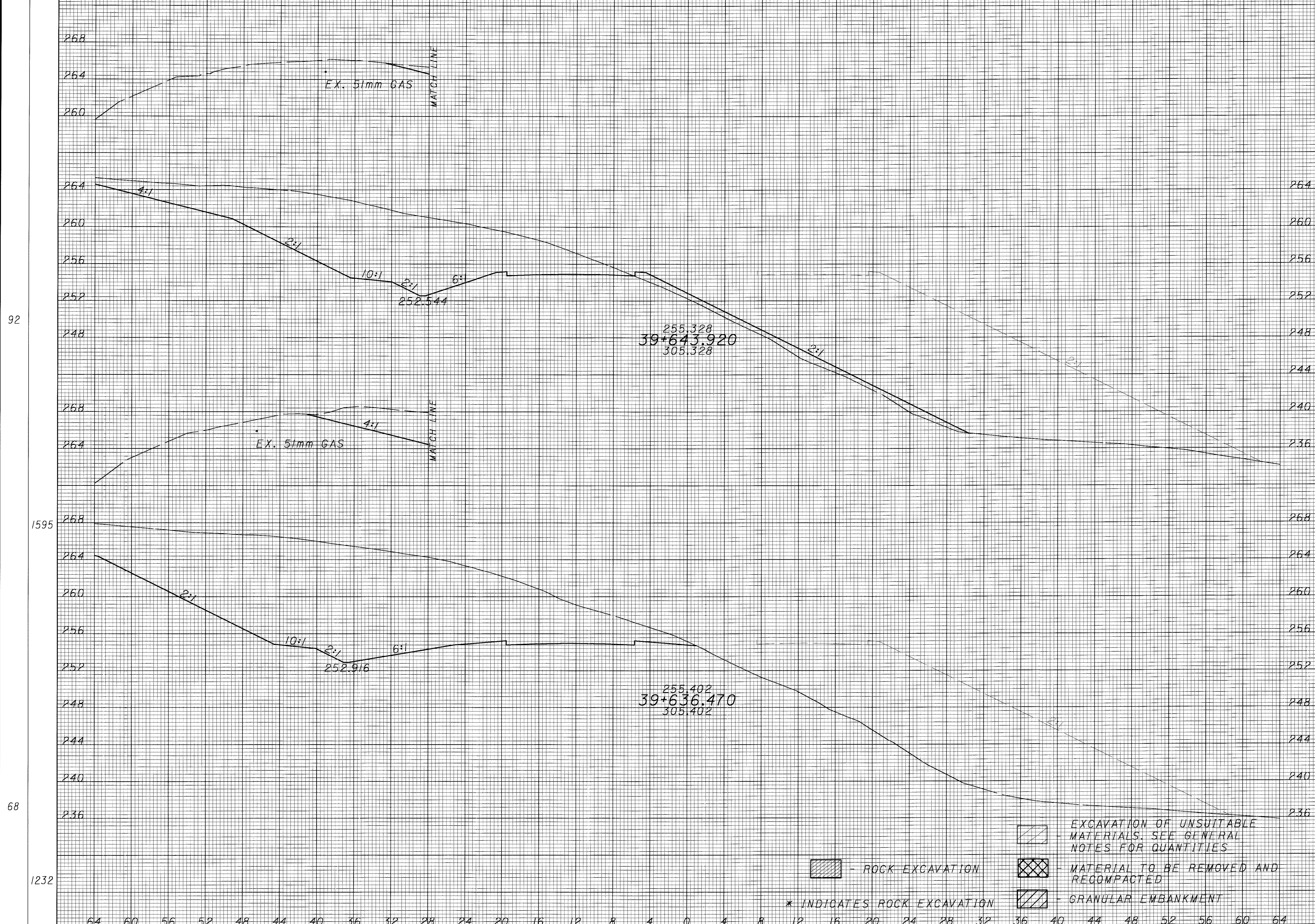
ATH-33-40.981

225
 949

SEEDING
END WIDTH SQ. METERS

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
RBD
CHECKED
TDW



END AREA	VOLUME
CUT	FILL
264	24
2869	88
506	0
*0	
10599	0
*60	
ROCK TOTAL	*60
13468	88

160 2827 SHEET TOTAL SHEET TOTAL

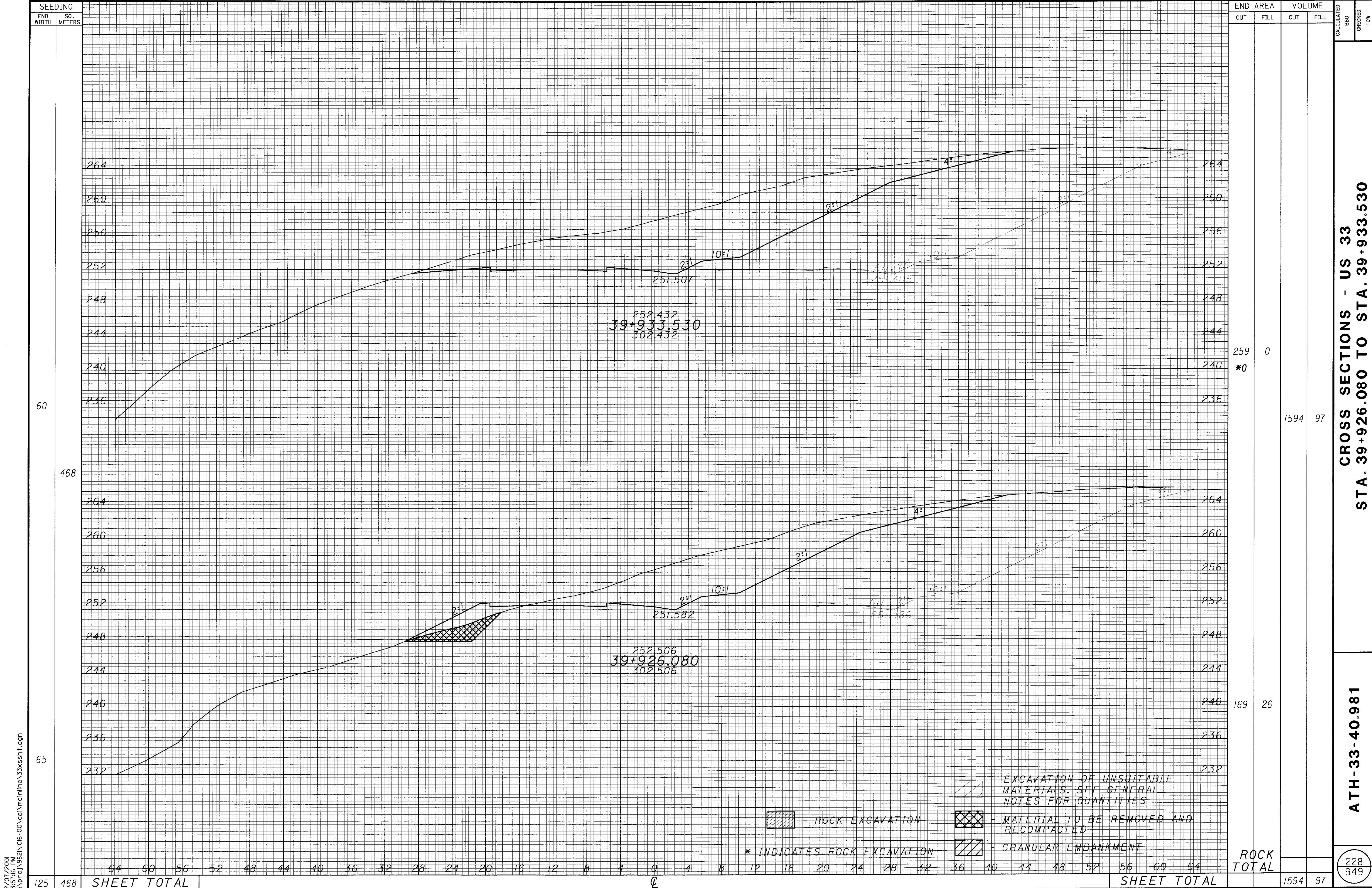
- ROCK EXCAVATION
 - MATERIAL TO BE REMOVED AND RECOMPACTED
 - GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

CROSS SECTIONS - US 33
STA. 39+636.470 TO STA. 39+643.920

ATH-33-40.981

227
949

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CROSS SECTIONS - US 33
STA. 39+926.080 TO STA. 39+933.530

ATH-33-40.981

228
949

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125 468 SHEET TOTAL

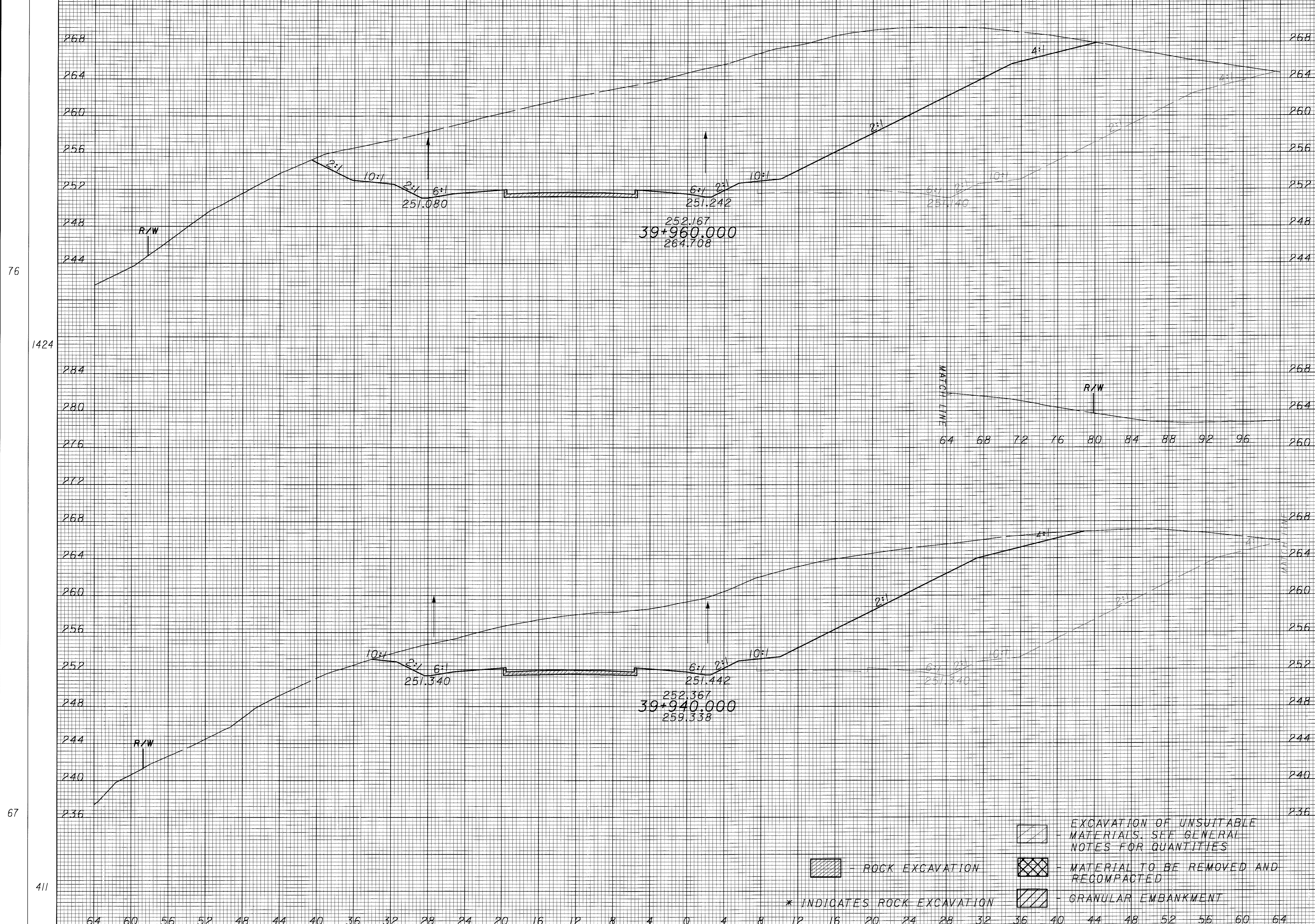
SHEET TOTAL

1594 97

SEEDING
END SQ.
WIDTH METERS

END AREA
CUT FILL
VOLUME
CUT FILL

CALCULATED
BDD
CHECKED
TDW



END AREA	VOLUME	CALCULATED	CHECKED
CUT	FILL	BDD	TDW
724	0		
*6			
11066	0		
*129			
383	0		
*6			
2078	0		
*60			
ROCK TOTAL			
*189			

143 1835 SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS - US 33
STA. 39+940.000 TO STA. 39+960.000

ATH-33-40.981

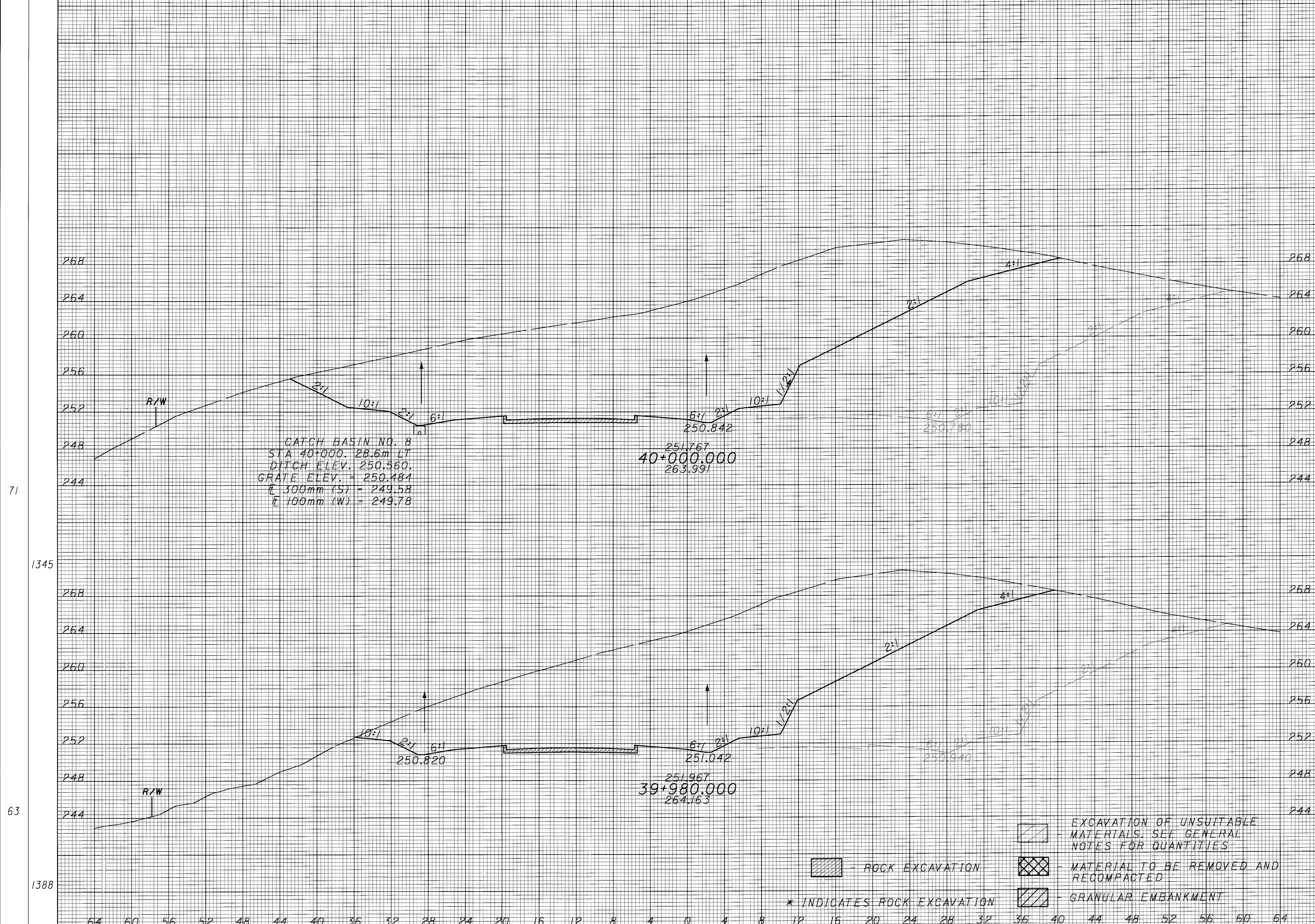
229
949

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SEEDING
END SQ.
WIDTH METERS

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
BDD
CHECKED
TDW



693 0
*6
13056 0
*128

613 0
*6
13362 0
*129

ROCK TOTAL *257
26418 0

CROSS SECTIONS - US 33
 STA. 39+980.000 TO STA. 40+000.000

ATH-33-40.981

230
949

134 2733 SHEET TOTAL

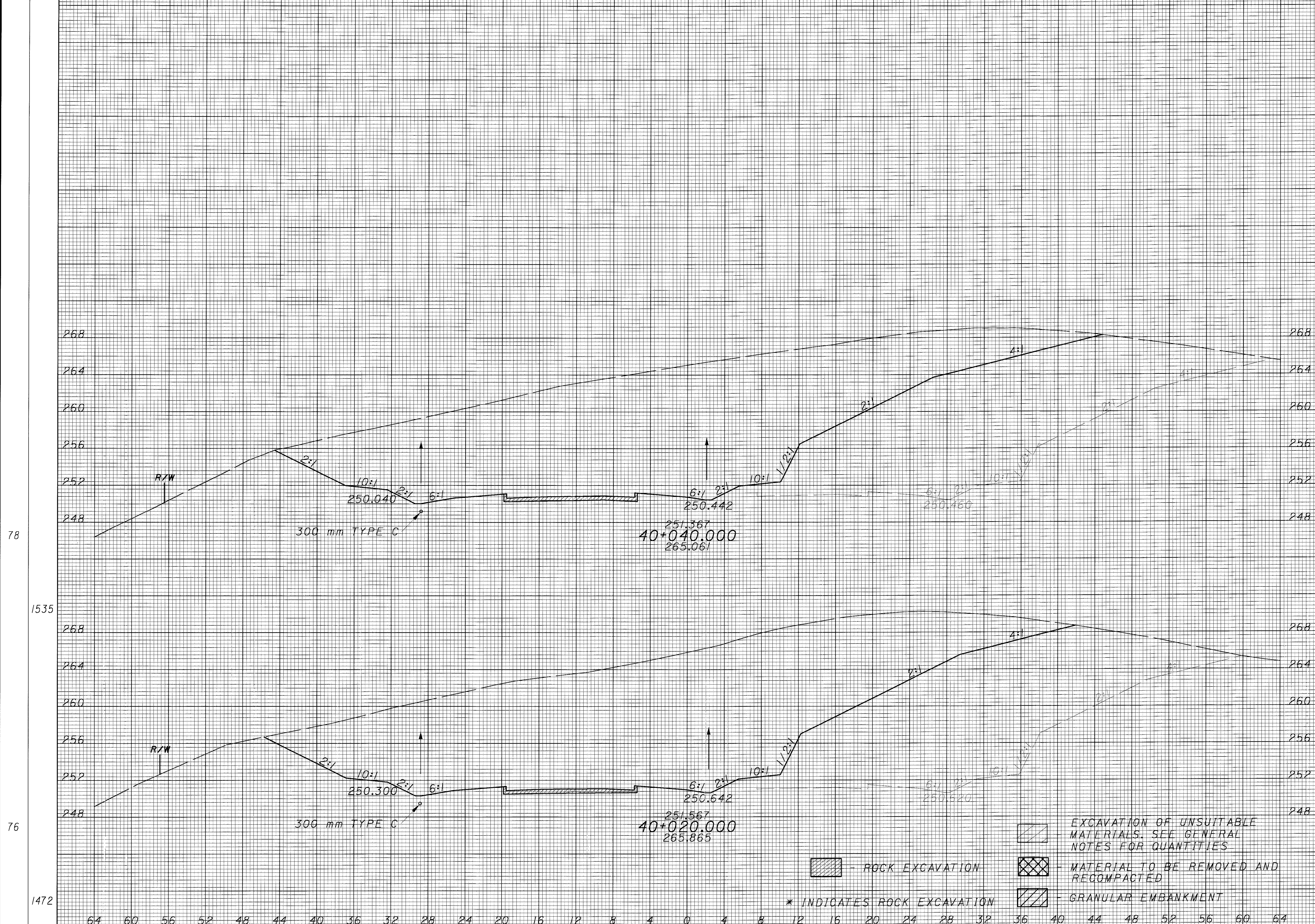
SHEET TOTAL

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SEEDING
END SQ.
WIDTH METERS

END AREA
CUT FILL
VOLUME
CUT FILL

CALCULATED
BY
CHECKED
TOW



END AREA	VOLUME
CUT	FILL
745	0
*7	
15518	0
*129	
806	0
*6	
14995	0
*127	
ROCK TOTAL	*256
SHEET TOTAL	30513

154 3007 SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS - US 33
STA. 40+020.000 TO STA. 40+040.000

ATH-33-40.981

231
949

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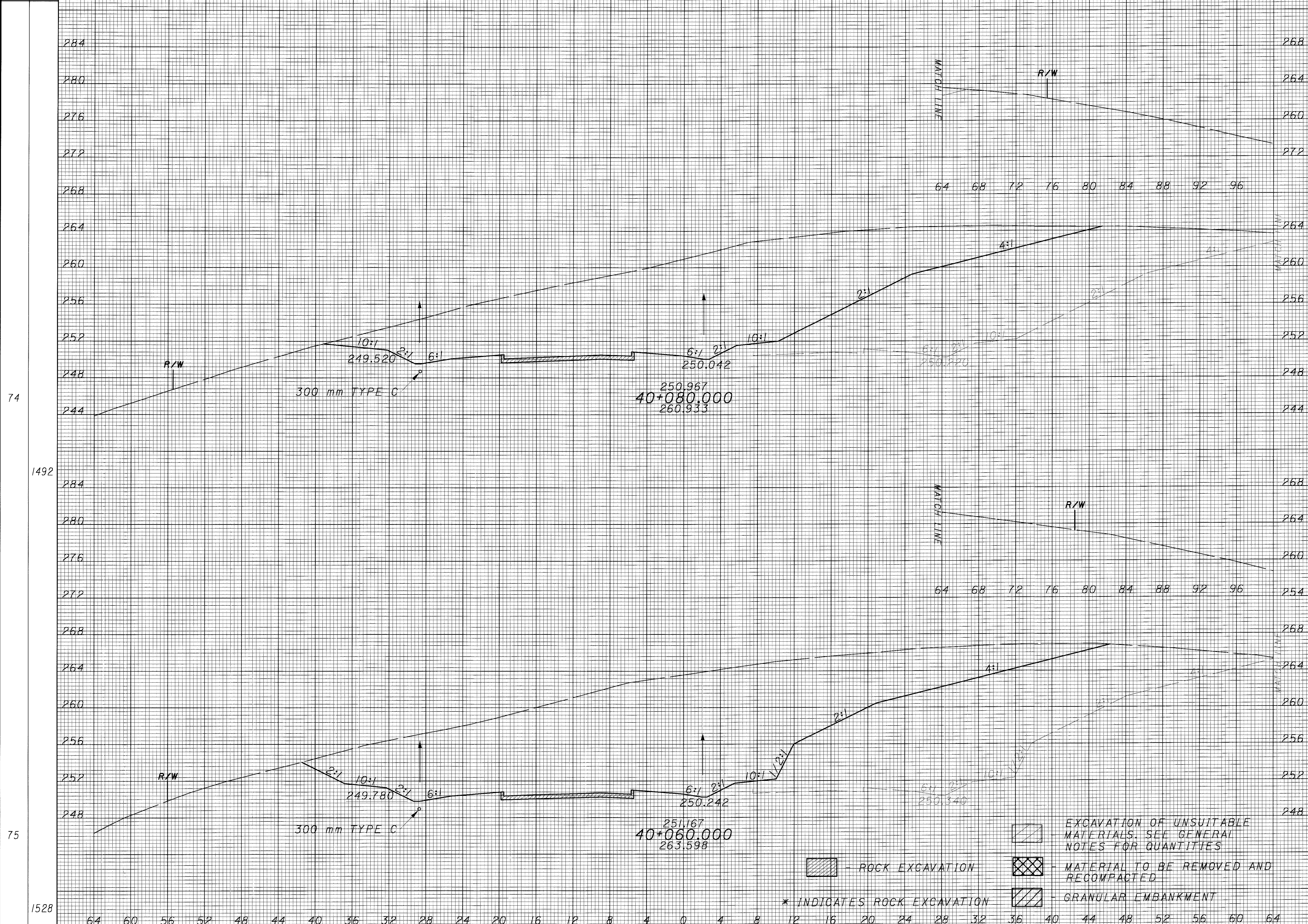
* INDICATES ROCK EXCAVATION

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT

SEEDING
END WIDTH SQ. METERS

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
BDD
CHECKED
TDW



END AREA	VOLUME
CUT	FILL
523	0
*7	
11528	0
*134	
630	0
*7	
13748	0
*133	
ROCK TOTAL	*267
SHEET TOTAL	25276

74

1492

75

1528

149 3020 SHEET TOTAL

SHEET TOTAL

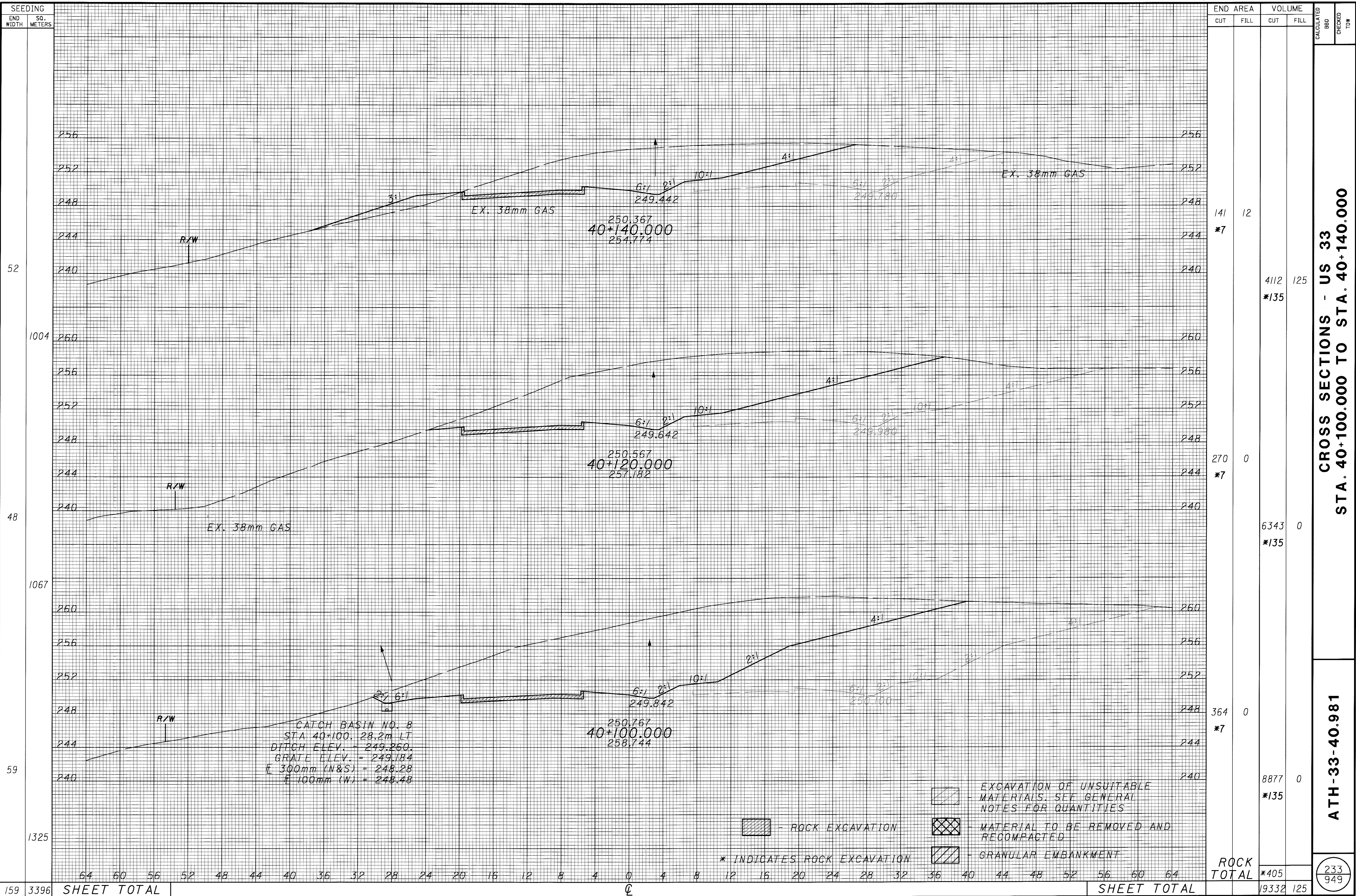
- ROCK EXCAVATION
- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED

CROSS SECTIONS - US 33
STA. 40+060.000 TO STA. 40+080.000

ATH-33-40.981

232
949

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SEEDING END WIDTH	SQ. METERS	END AREA		VOLUME		CALCULATED BBO	CHECKED TOW	
		CUT	FILL	CUT	FILL			
52	1004	141	12	4112	125			
48	1067	270	0	6343	0			
59	1325	364	0	8877	0			
159	3396	SHEET TOTAL		19332	125			
							ROCK TOTAL	*405

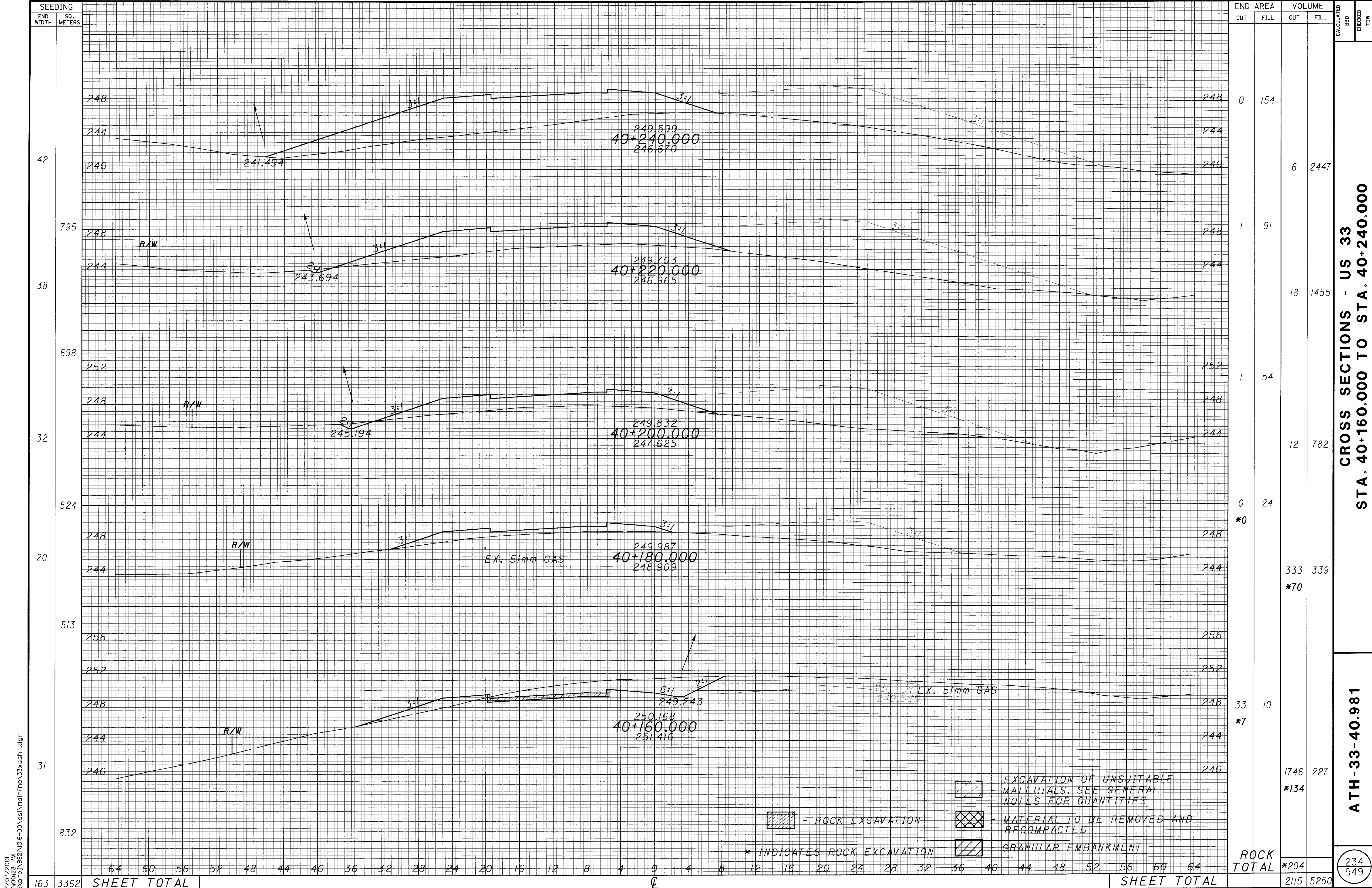
CROSS SECTIONS - US 33
 STA. 40+100.000 TO STA. 40+140.000

ATH-33-40.981

233
 949

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- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION



CROSS SECTIONS - US 33
STA. 40+160.000 TO STA. 40+240.000

ATH-33-40.981

234
 949

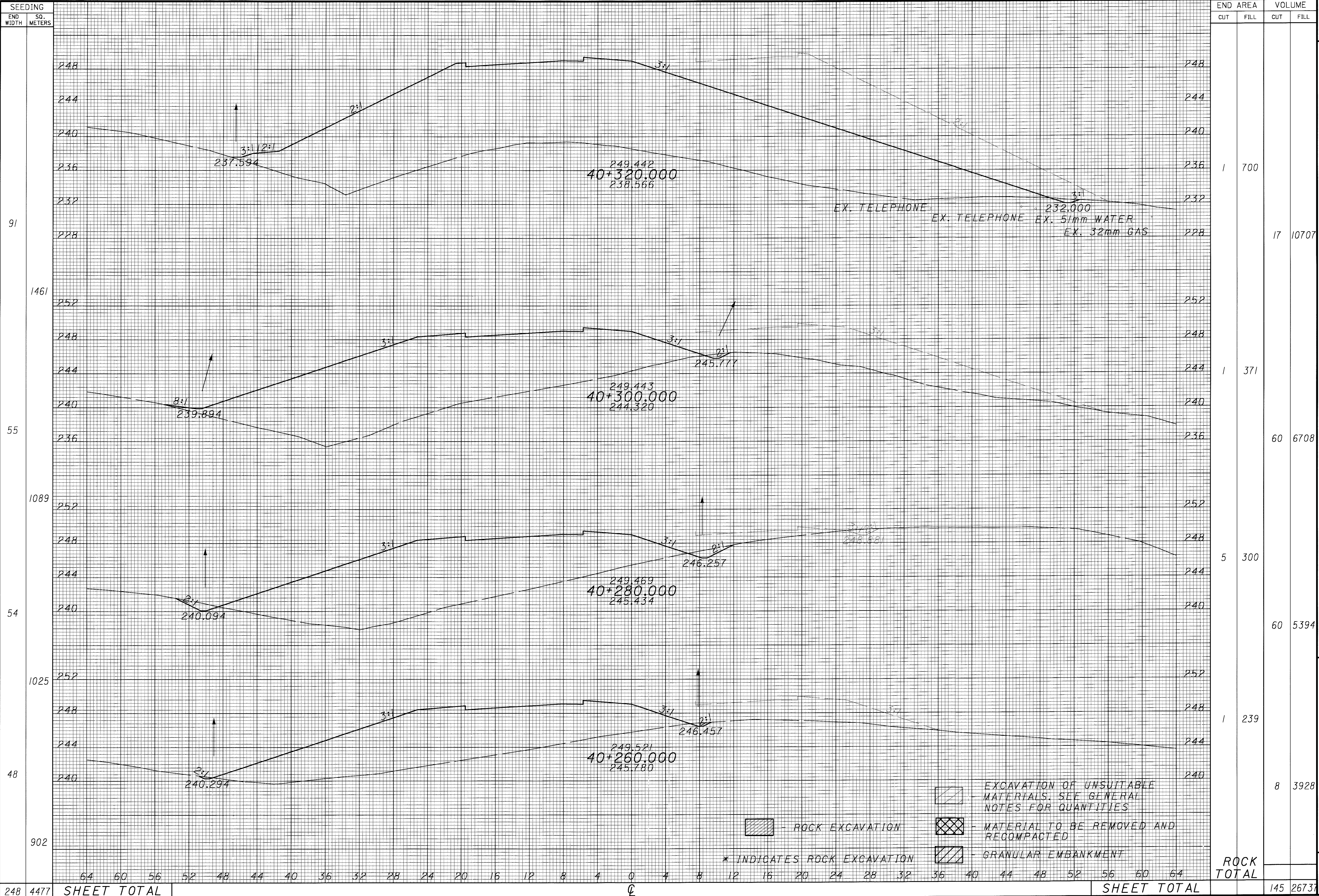
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163 3362 SHEET TOTAL

SHEET TOTAL

ROCK TOTAL *204
 2115 5250

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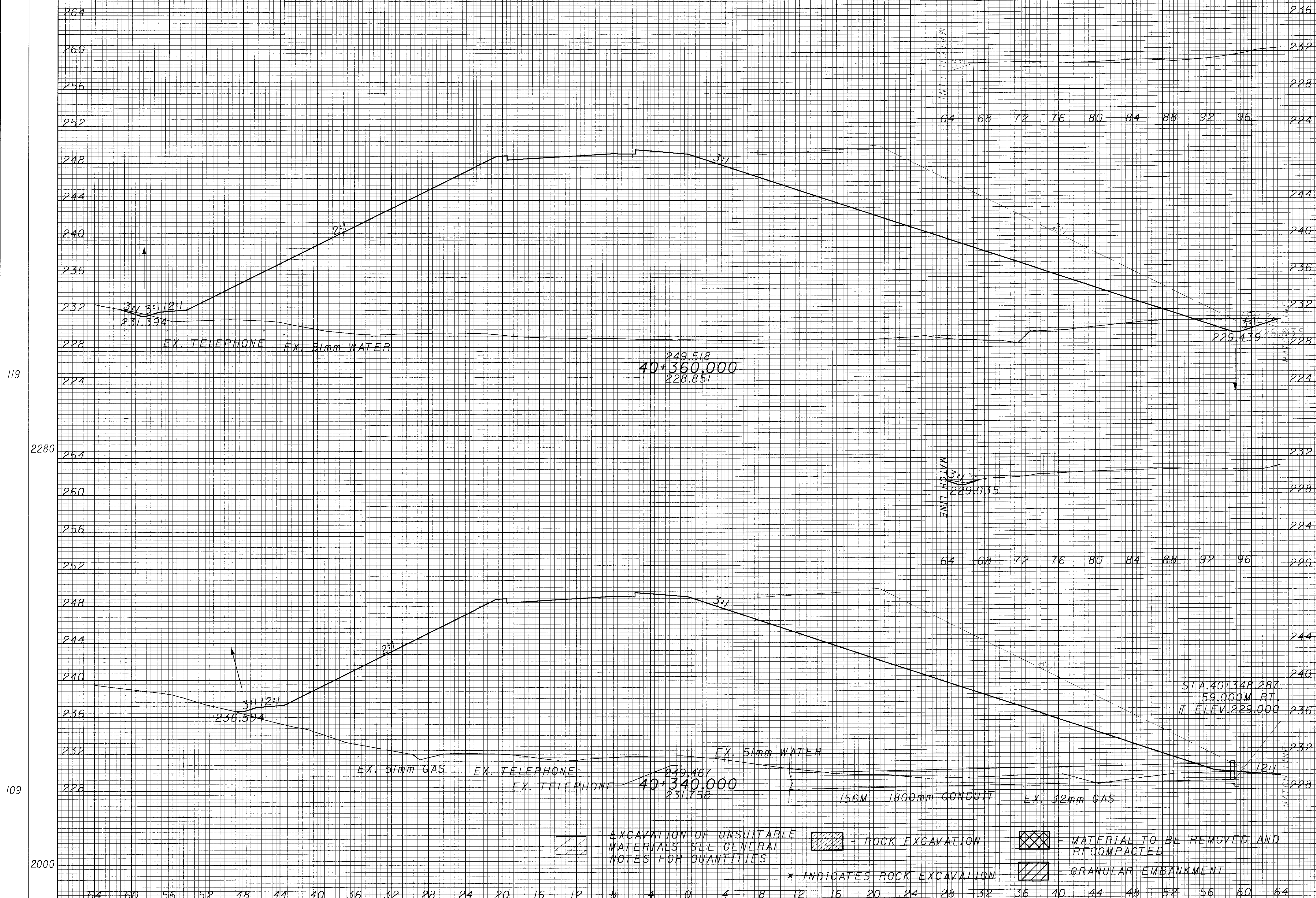
SEEDING END WIDTH	SQ. METERS	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
91			700		
1461				17	10707
55			371	60	6708
1089				5	300
54				60	5394
1025				1	239
48				8	3928
902					
248	4477	SHEET TOTAL		145	26737

CALCULATED BBD CHECKED TOW
ATH-33-40.981
CROSS SECTIONS - US 33
STA. 40+260.000 TO STA. 40+320.000
 235
949

SEEDING
END SQ.
WIDTH METERS

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
BBD
CHECKED
TDW



7 1344

82 24911

1 1147

16 18475

ROCK TOTAL

98 43386

CROSS SECTIONS - US 33
STA. 40+340.000 TO STA. 40+360.000

ATH-33-40.981

236
949

119

2280

109

2000

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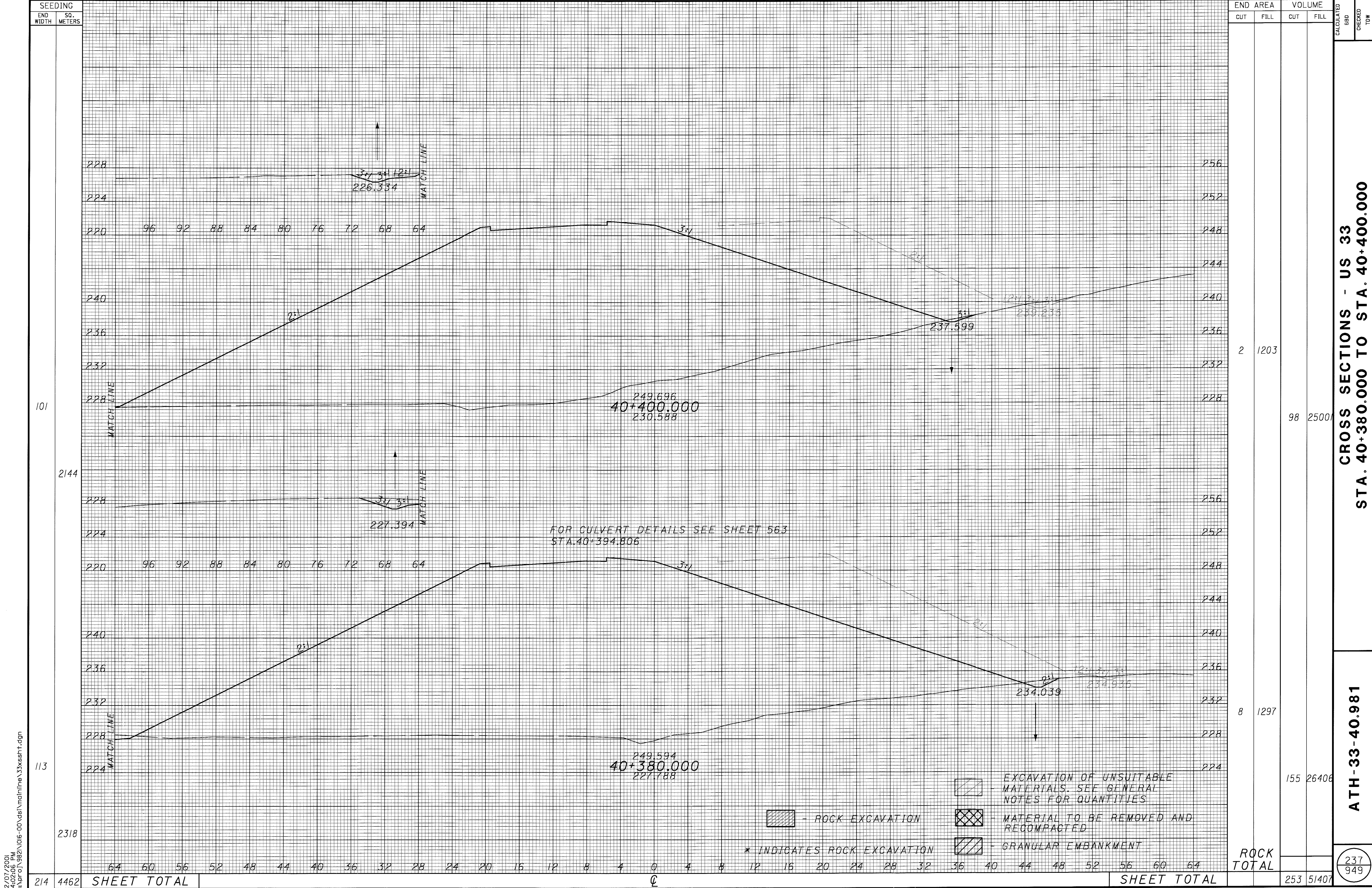
228 4280 SHEET TOTAL

SHEET TOTAL

249.518
40+360.000
228.851

249.467
40+340.000
231.758

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION



END AREA	VOLUME	CALCULATED	CHECKED						
				CUT	FILL	CUT	FILL	BY	TOW
		2	1203						
		98	2500						
		8	1297						
		155	26406						
ROCK TOTAL									
		253	51407						

CROSS SECTIONS - US 33
STA. 40+380.000 TO STA. 40+400.000

ATH-33-40.981

237
 949

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SEEDING	END WIDTH	SQ. METERS
	214	4462

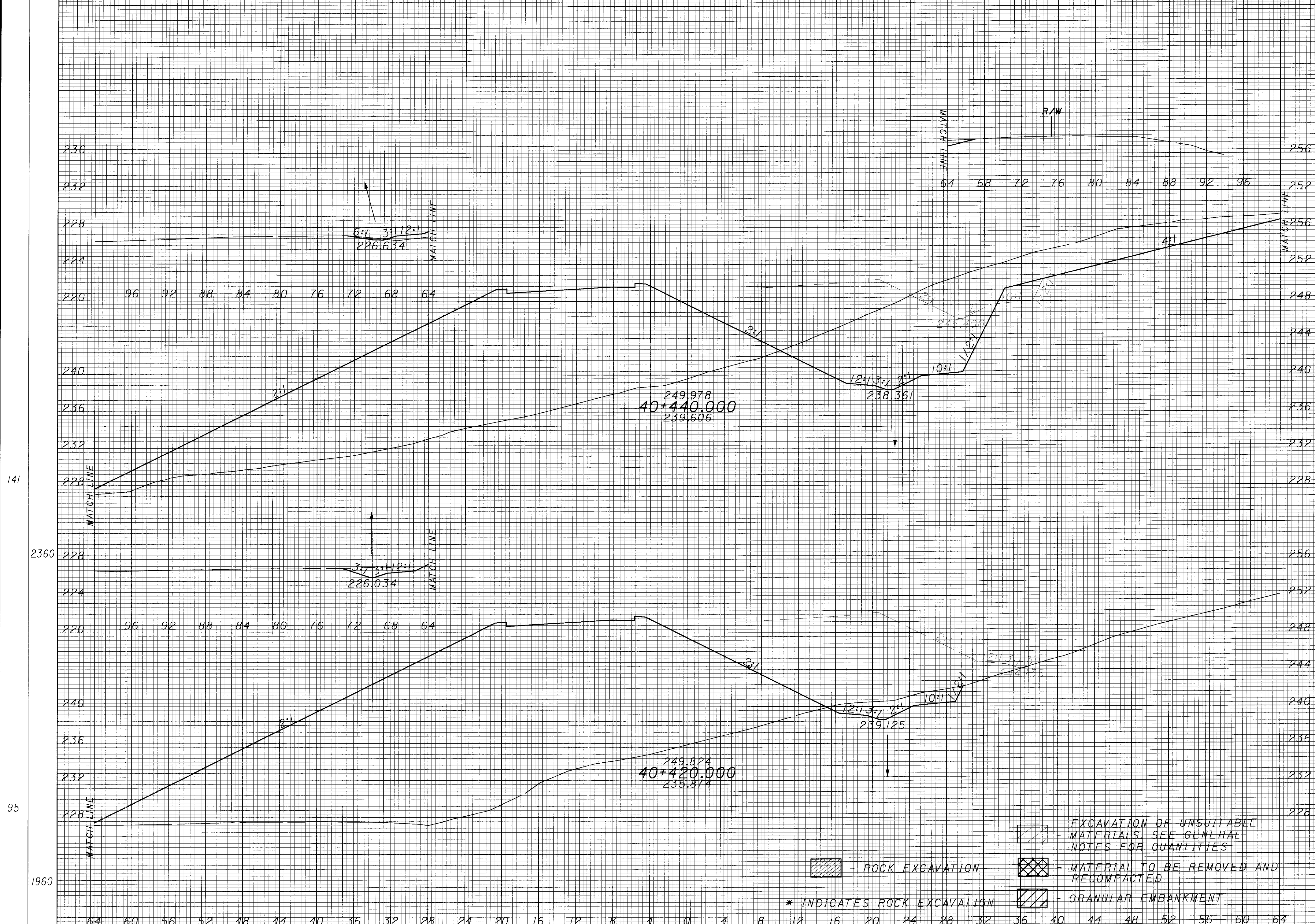
SHEET TOTAL

SHEET TOTAL

Q

SEEDING
END WIDTH SO. METERS

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED BBO CHECKED TDW



END AREA	VOLUME	CALCULATED BBO	CHECKED TDW
242	627	2619	15102
20	883	217	20861
ROCK TOTAL			
		238	949

36 4320 SHEET TOTAL 236 3596 SHEET TOTAL

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CROSS SECTIONS - US 33
STA. 40+420.000 TO STA. 40+440.000

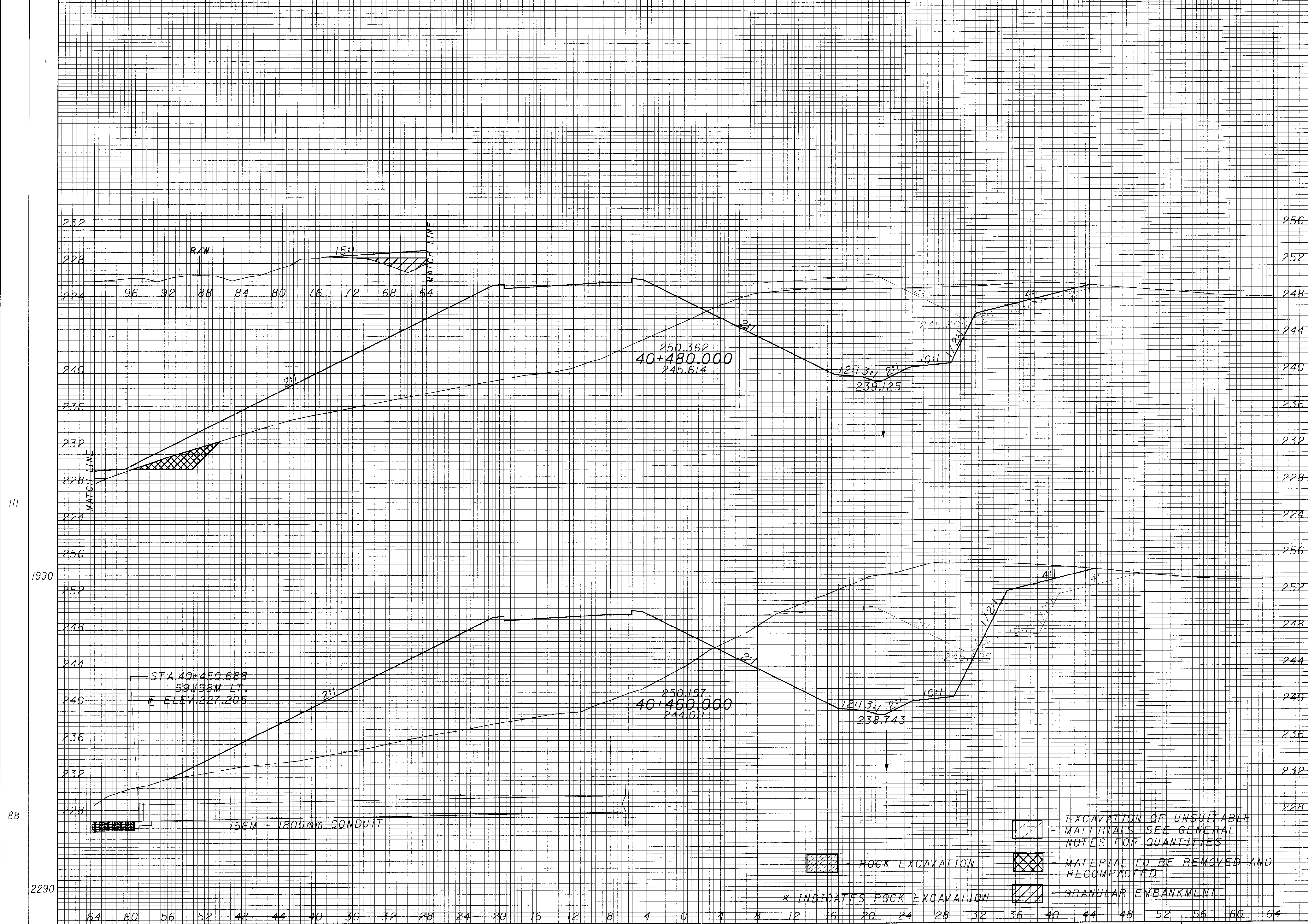
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- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

SEEDING
END WIDTH SQ. METERS

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
BDD
CHECKED
TDW



END AREA	VOLUME	CUT	FILL	ROCK TOTAL
234	380			
5700	7900			
336	410			
5784	10375			
SHEET TOTAL				ROCK TOTAL
11484	18275			

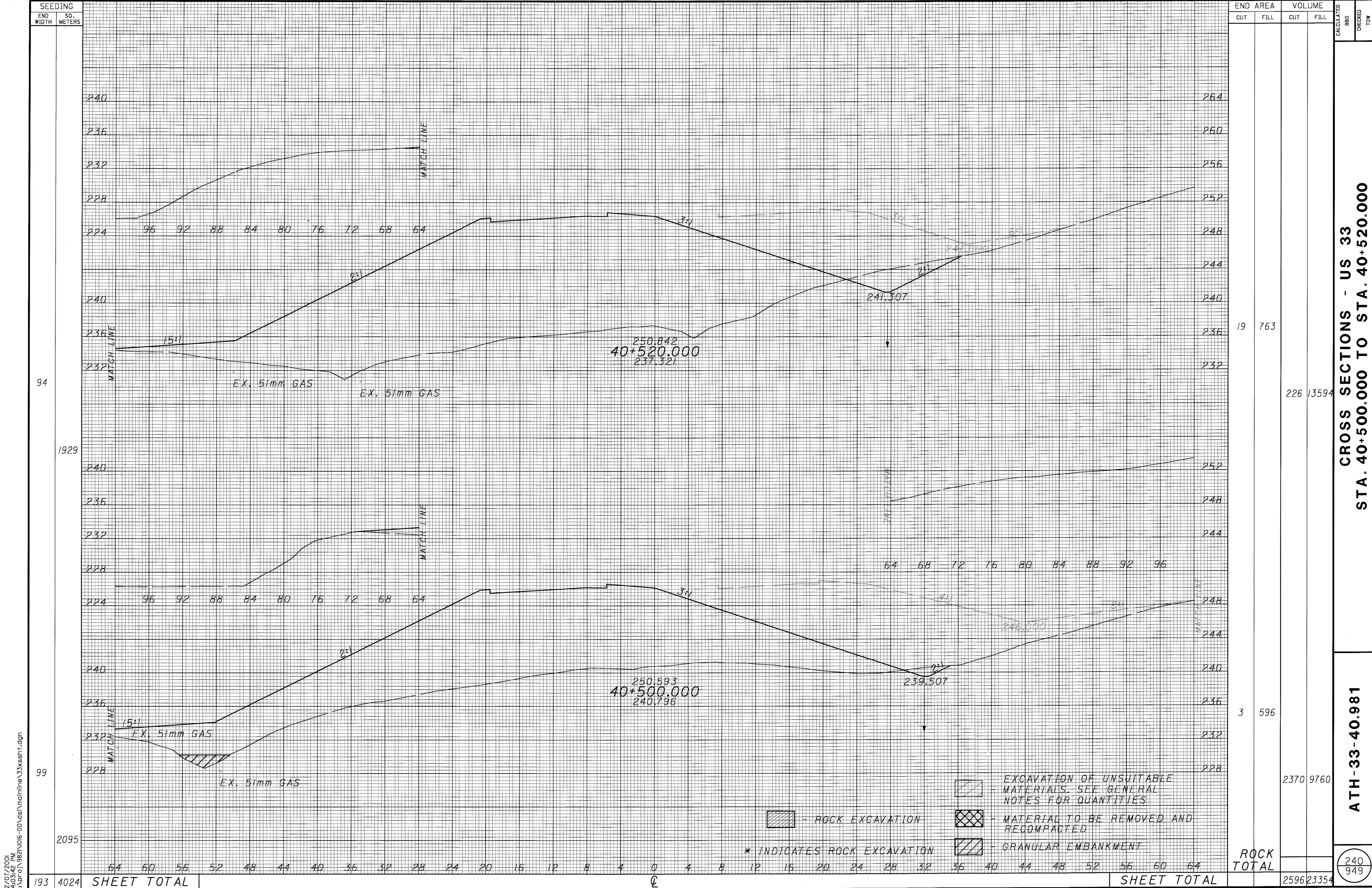
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CROSS SECTIONS - US 33
STA. 40+460.000 TO STA. 40+480.000

ATH-33-40.981

239
949

199 4280 SHEET TOTAL 11484 18275 SHEET TOTAL



SEEDING END WIDTH	SQ. METERS	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
94	1929	19	763	226	13594
99	2095	3	596	2370	9760
193	4024	SHEET TOTAL		SHEET TOTAL	

CALCULATED BY	CHECKED TOW	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
		19	763	226	13594
		3	596	2370	9760
		ROCK TOTAL		ROCK TOTAL	
		2596	23354		

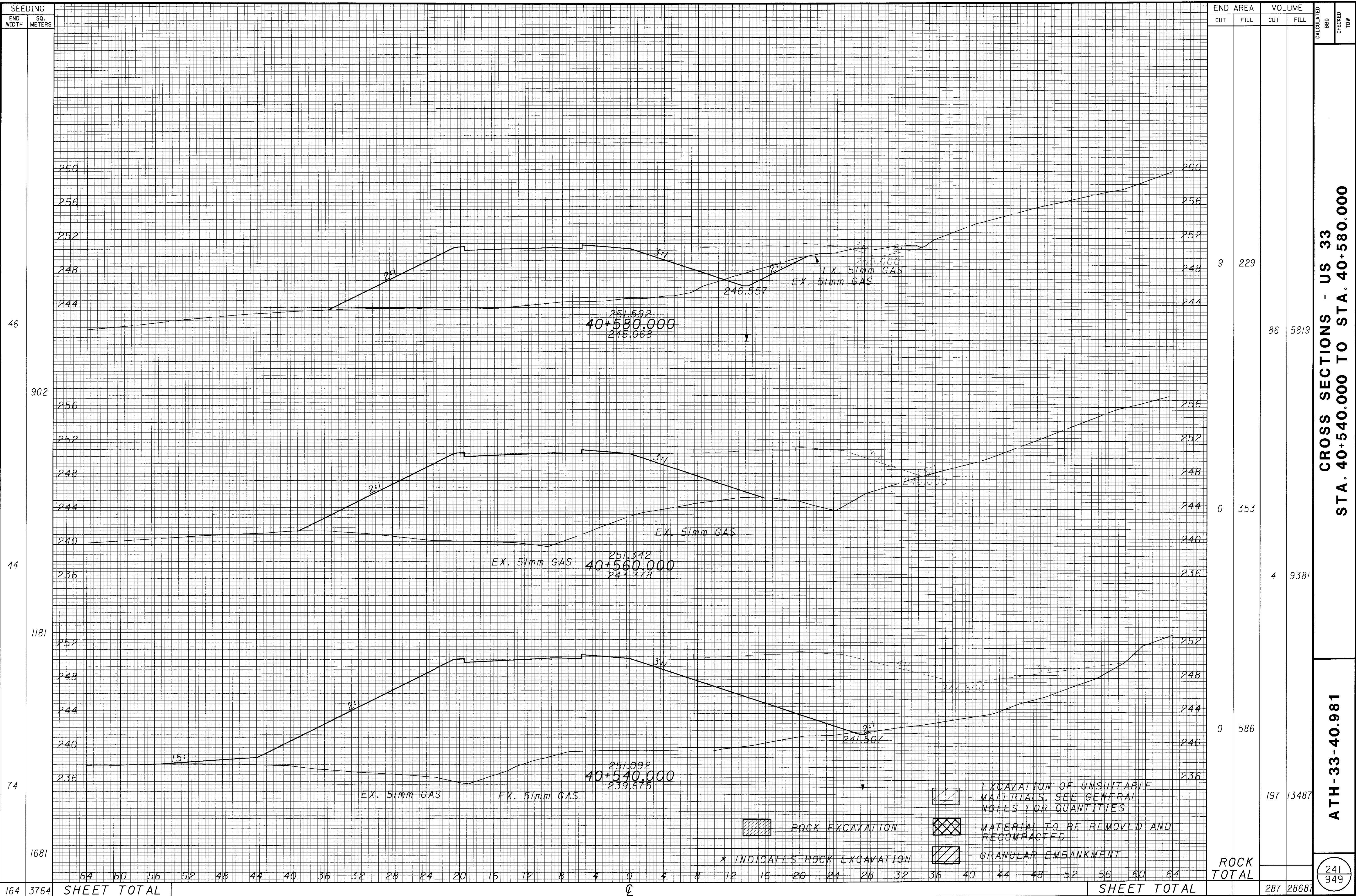
CROSS SECTIONS - US 33
STA. 40+500.000 TO STA. 40+520.000

ATH-33-40.981

240
949

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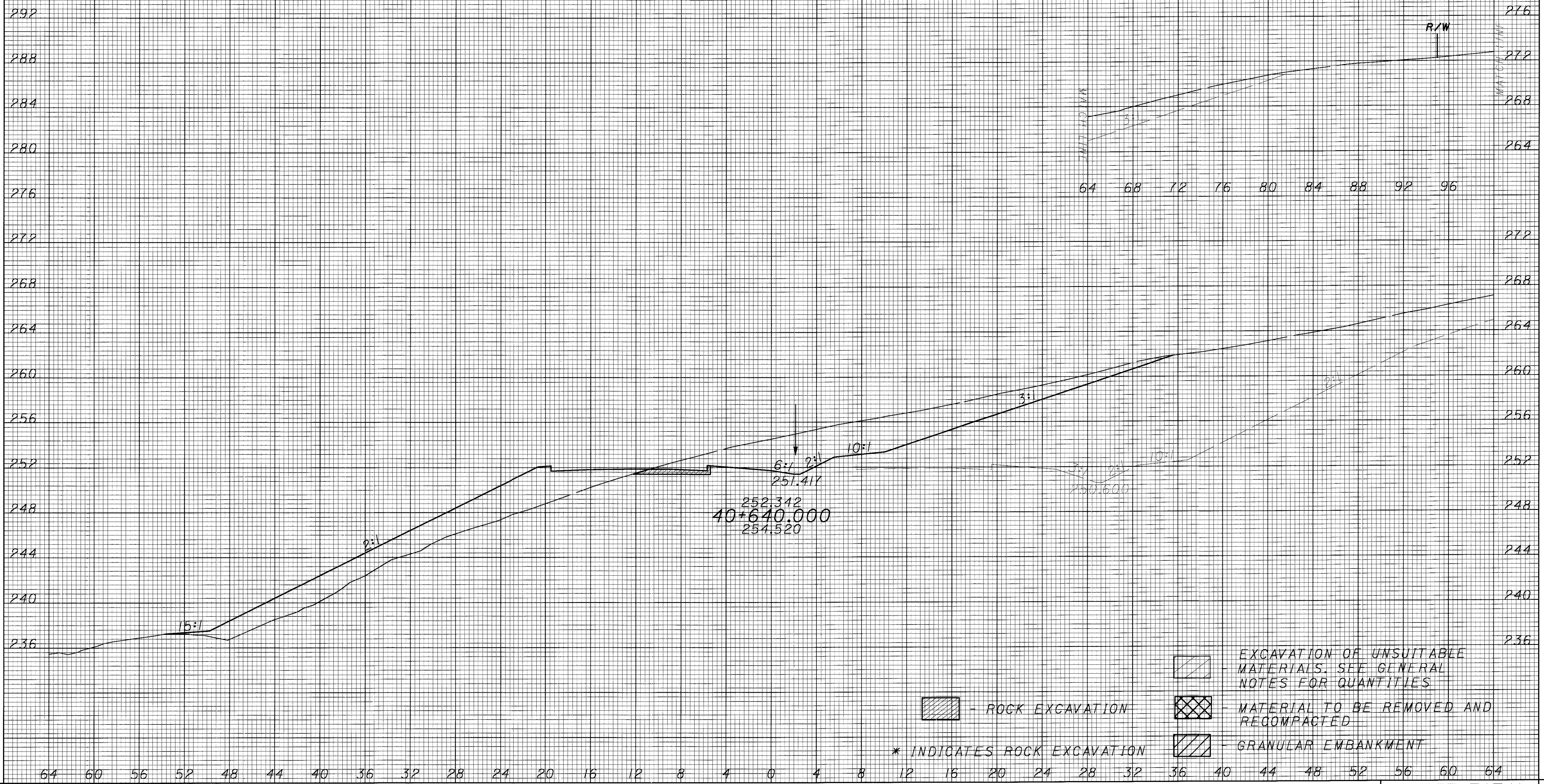
CROSS SECTIONS - US 33
STA. 40+540.000 TO STA. 40+580.000

ATH-33-40.981

241
949

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SEEDING	
END WIDTH	SO. METERS
81	1308
SHEET TOTAL	



- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION
- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

END AREA		VOLUME		CALCULATED BDD	CHECKED TDW
CUT	FILL	CUT	FILL		
84	80				
*3					
		1705	1032		
		*65			
ROCK TOTAL		*65			
SHEET TOTAL		1705	1032		

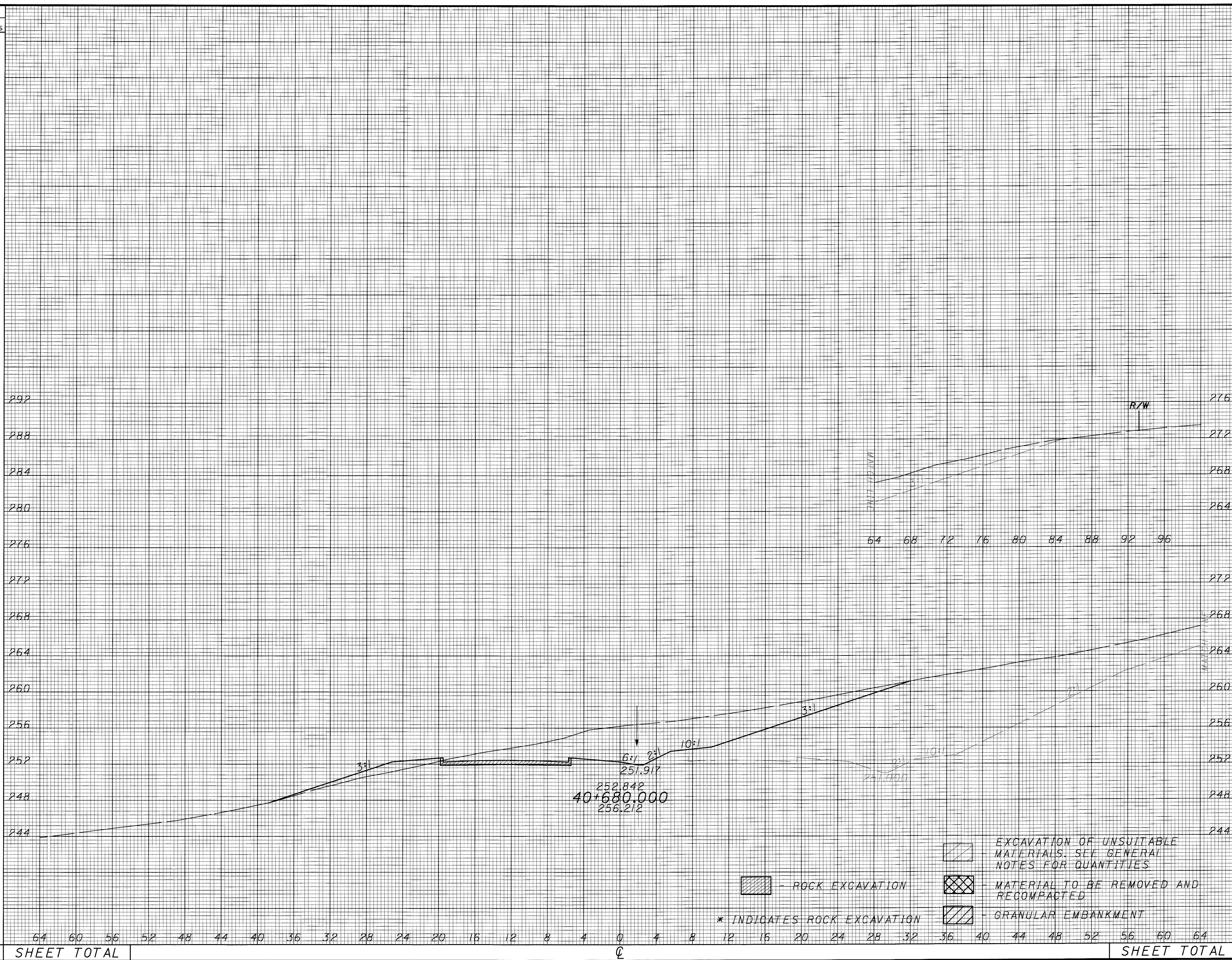
CROSS SECTIONS - US 33
STA. 40+640.000

ATH-33-40.981

244
949

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SEEDING	
END WIDTH	SQ. METERS
59	844
SHEET TOTAL	



40+680.000
252.842
251.917
256.212

- ROCK EXCAVATION
 - MATERIAL TO BE REMOVED AND RECOMPACTED
 - GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

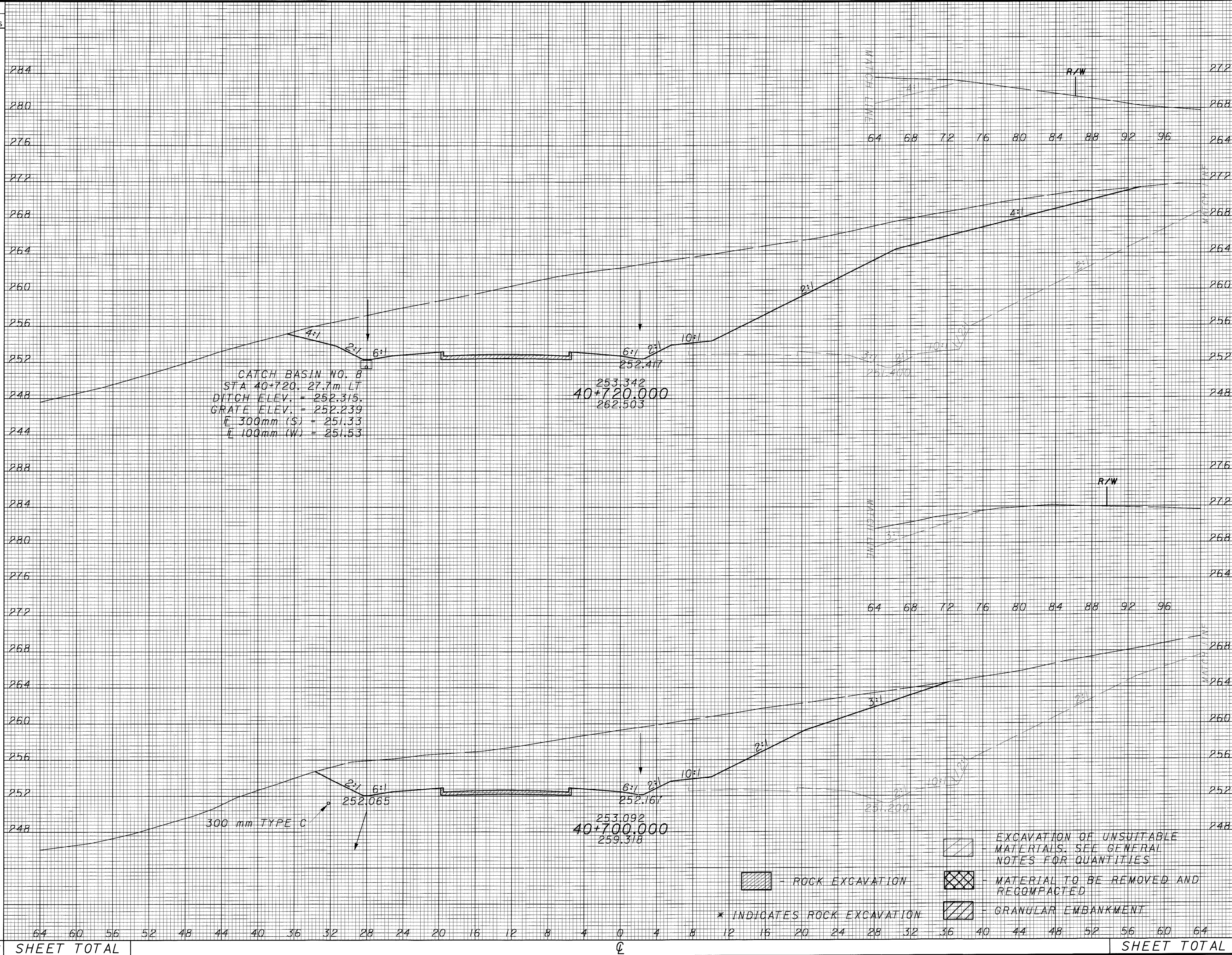
END AREA	VOLUME	CALCULATED	BDD	CHECKED	TDW
1108	2015				
*180					
ROCK TOTAL					
1108	2015				

CROSS SECTIONS - US 33
STA. 40+680.000

ATH-33-40.981

246
949

SEEDING	
END WIDTH	SO. METERS
144	2621
85	
59	
1183	

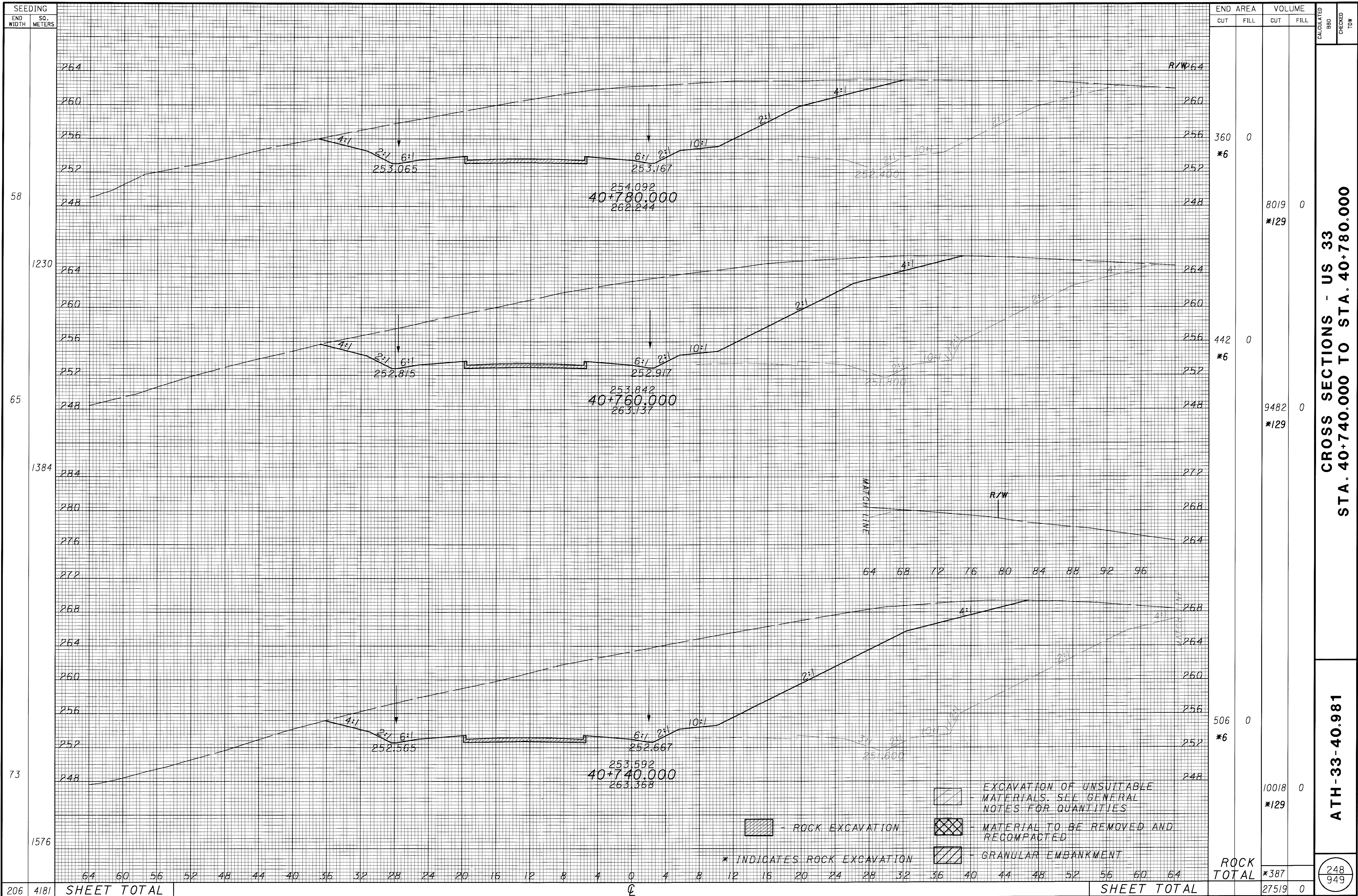


END AREA	VOLUME	CALCULATED	BDD	CHECKED	TDW
495	0	*6			
7837	0	*129			
288	0	*6			
3991	100	*128			
ROCK TOTAL		*257			
		11828	100		

CROSS SECTIONS - US 33
 STA. 40+700.000 TO STA. 40+720.000
 ATH-33-40.981
 247
 949

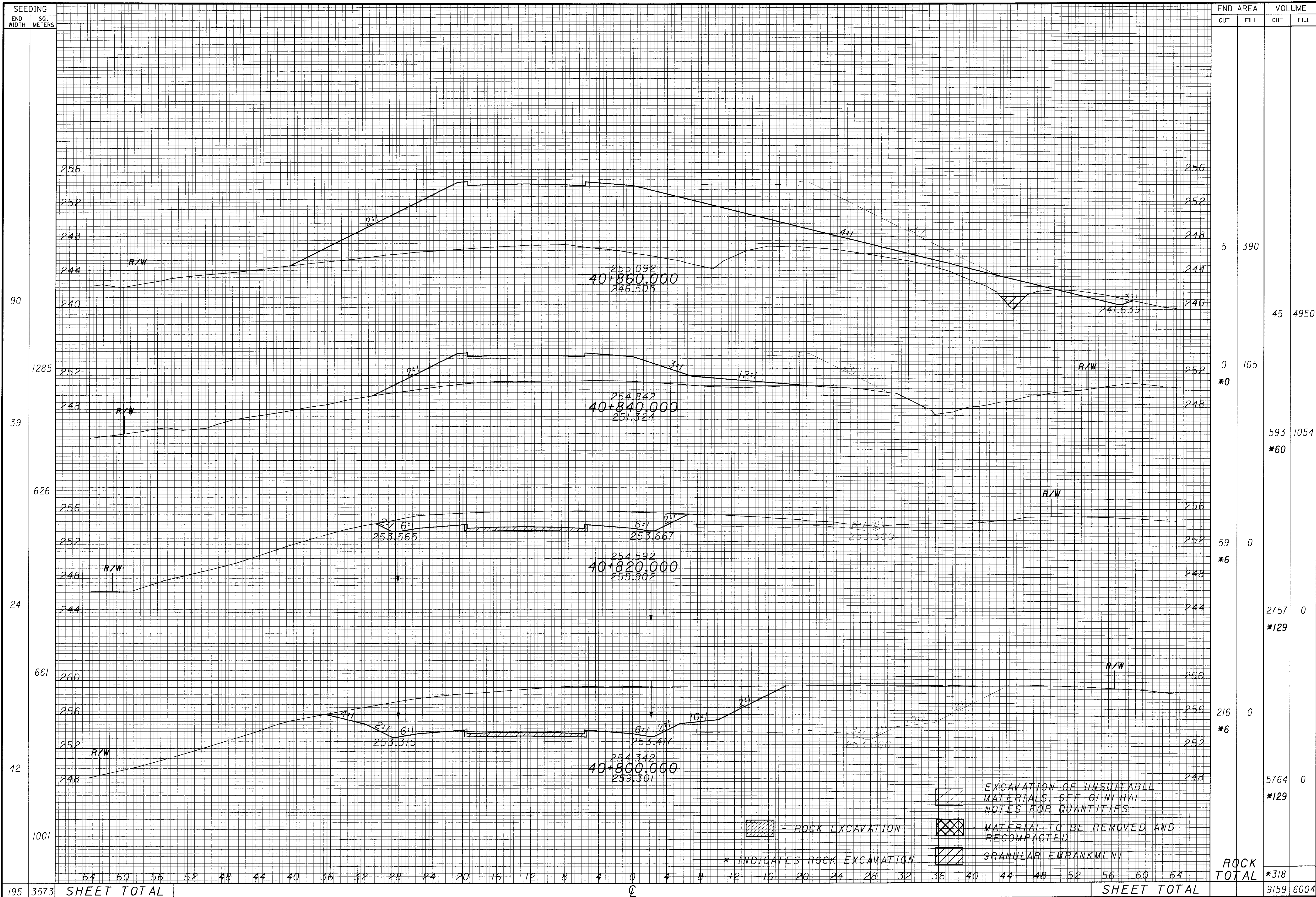
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206	4181	SHEET TOTAL																SHEET TOTAL																248	949
																																		*387	0
																																		27519	0

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END	AREA		VOLUME		CALCULATED	CHECKED	TDW
	CUT	FILL	CUT	FILL			
5		390					
45		4950					
0		105					
*0							
593		1054					
*60							
59		0					
*6							
2757		0					
*129							
216		0					
*6							
5764		0					
*129							
ROCK TOTAL		*318					
SHEET TOTAL		9159	6004				

CROSS SECTIONS - US 33
STA. 40+800.000 TO STA. 40+860.000

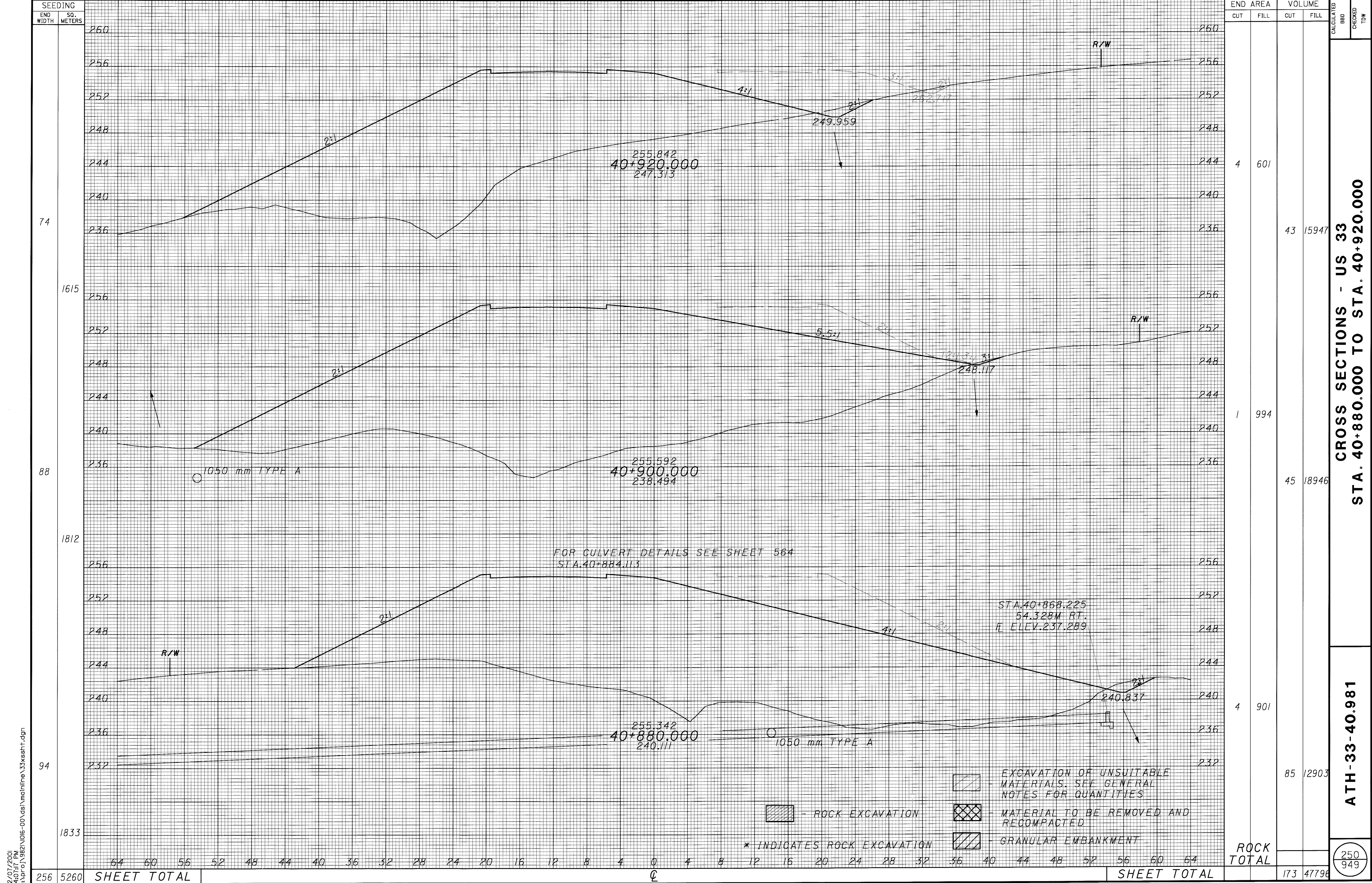
ATH-33-40.981

249
949

195 3573 SHEET TOTAL

SHEET TOTAL

Q



SEEDING	SQ. METERS	
	END WIDTH	END
74	260	236
1615	256	236
88	256	236
1812	256	236
94	256	232
1833	256	232
SHEET TOTAL	5260	5260

END AREA	VOLUME		CALCULATED	CHECKED	TDW
	CUT	FILL			
4	601				
1	994				
4	901				
ROCK TOTAL					
SHEET TOTAL	173	47796			

CROSS SECTIONS - US 33
STA. 40+880.000 TO STA. 40+920.000

ATH-33-40.981

250
949

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FOR CULVERT DETAILS SEE SHEET 564
 STA. 40+884.113

STA. 40+868.225
 54.328M RT.
 F. ELEV. 237.289

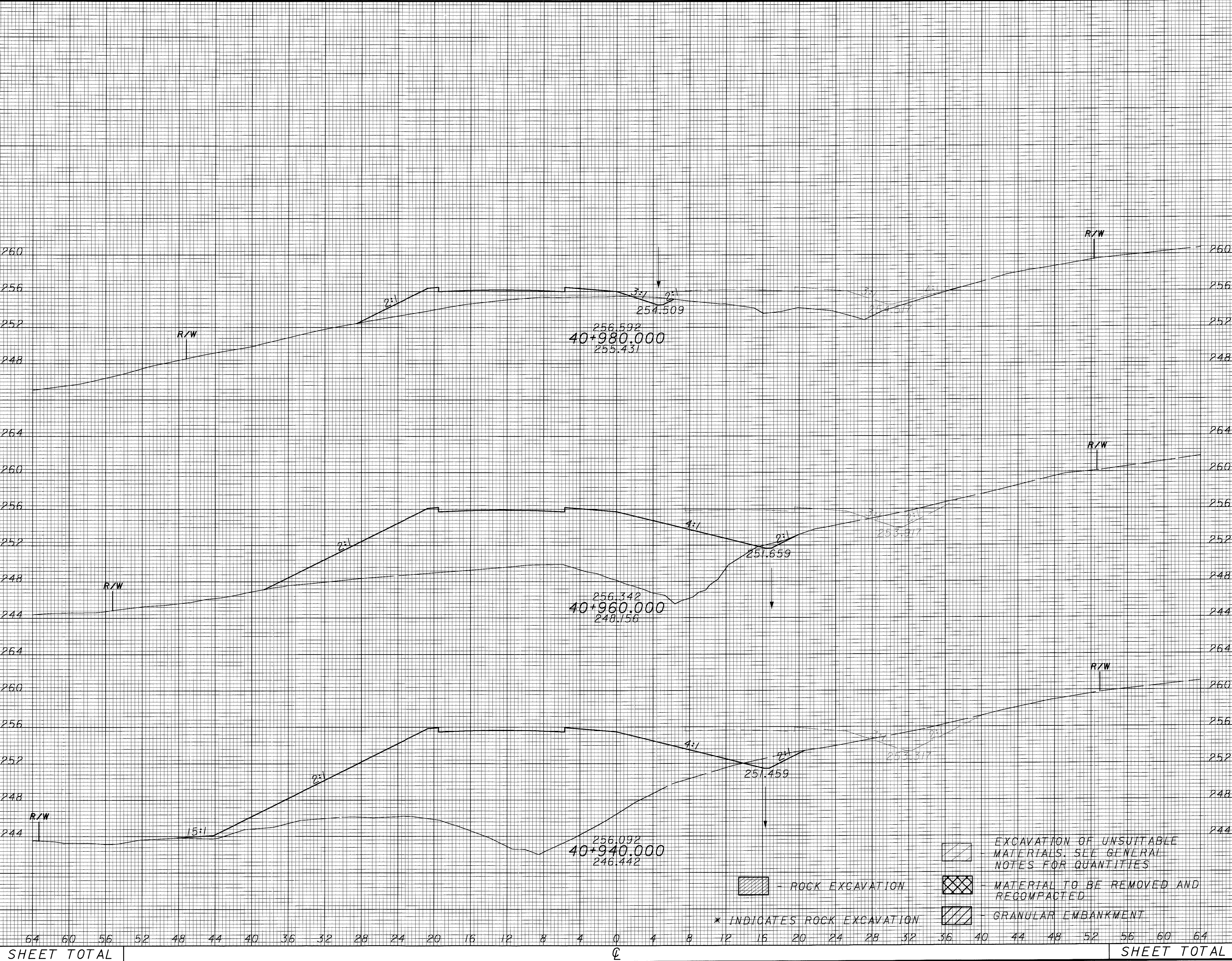
- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

ROCK TOTAL

SEEDING
END WIDTH SQ. METERS

22
699
48
1065
59
1327

129 3091 SHEET TOTAL



END AREA	VOLUME		CALCULATED	CHECKED	
	CUT	FILL			CUT
2		35			
*0					
	31	3243			
	52	6904			
	4	401			
	80	10014			
ROCK TOTAL					
	163	20161			

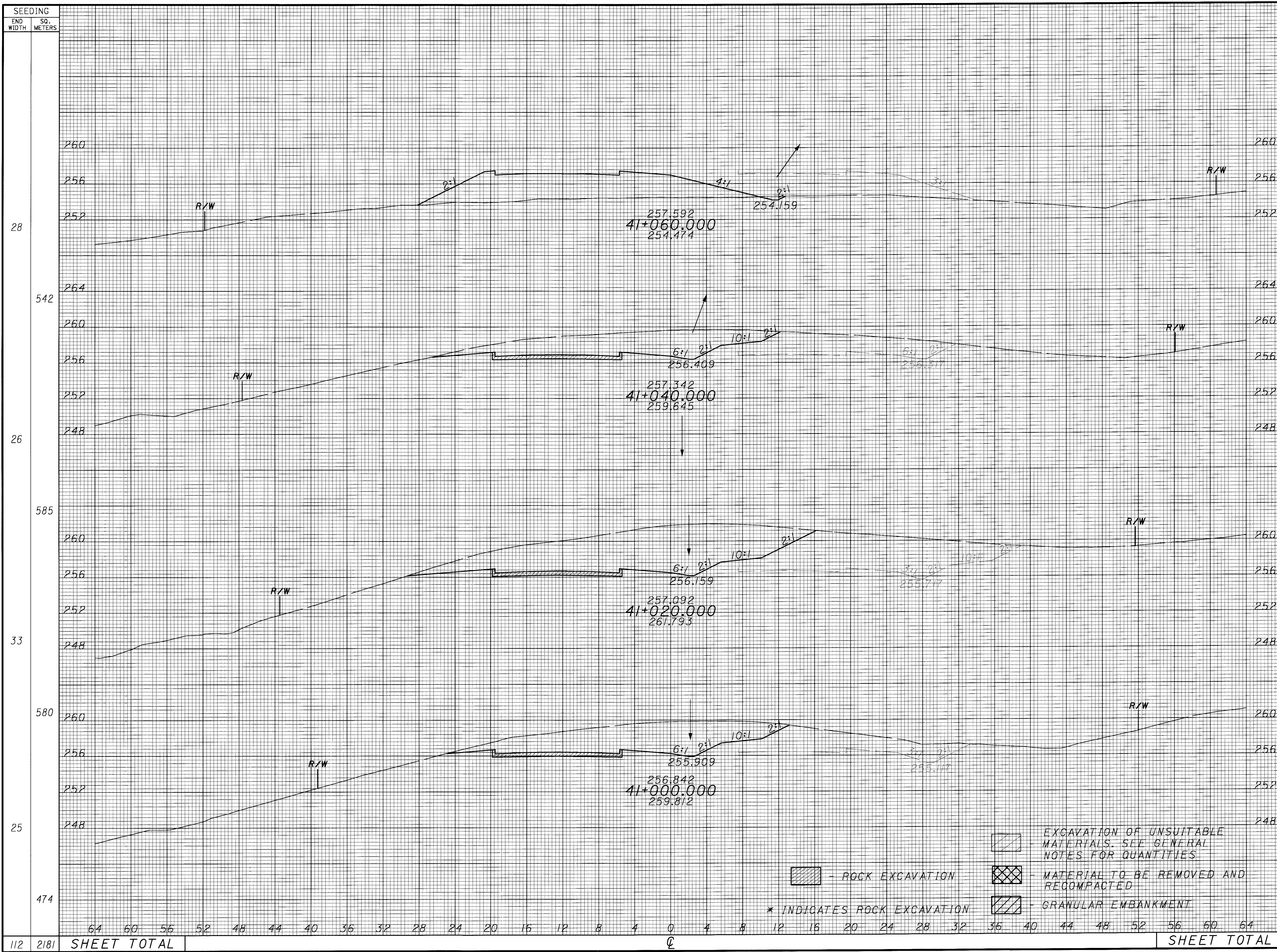
CROSS SECTIONS - US 33
STA. 40+940.000 TO STA. 40+980.000

ATH-33-40.981

251
949

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112	2181	SHEET TOTAL		64	60	56	52	48	44	40	36	32	28	24	20	16	12	8	4	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	SHEET TOTAL	
-----	------	-------------	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-------------	--

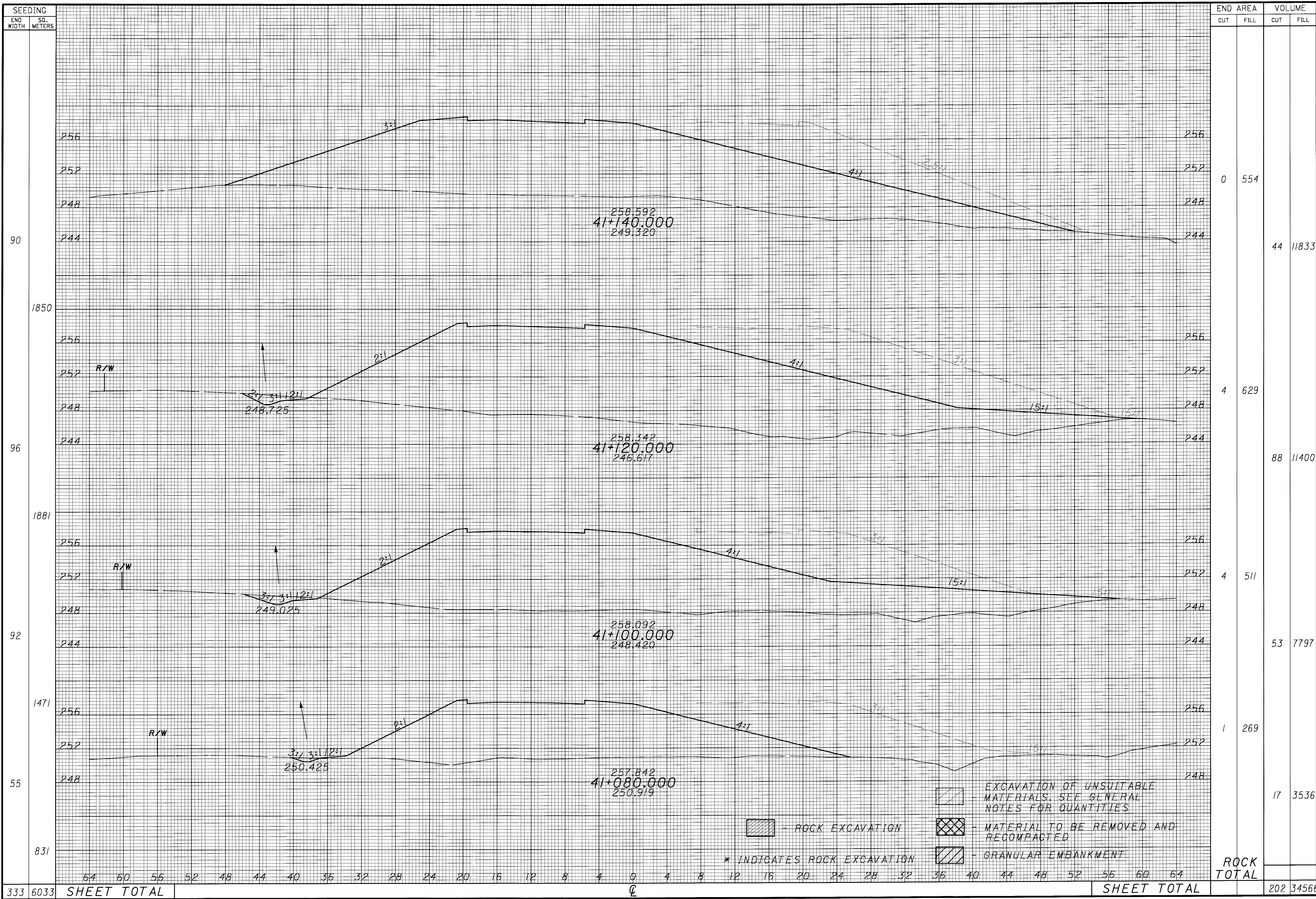
END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
1	85			
*0			696	845
*60				
69	0		2124	0
*6				
*129				
144	0		2280	0
*6				
*129				
84	0		865	346
*6				
*60				
ROCK TOTAL		*378		
		5965	1191	

CROSS SECTIONS - US 33
 STA. 41+000.000 TO STA. 41+060.000

ATH-33-40.981

252
 949

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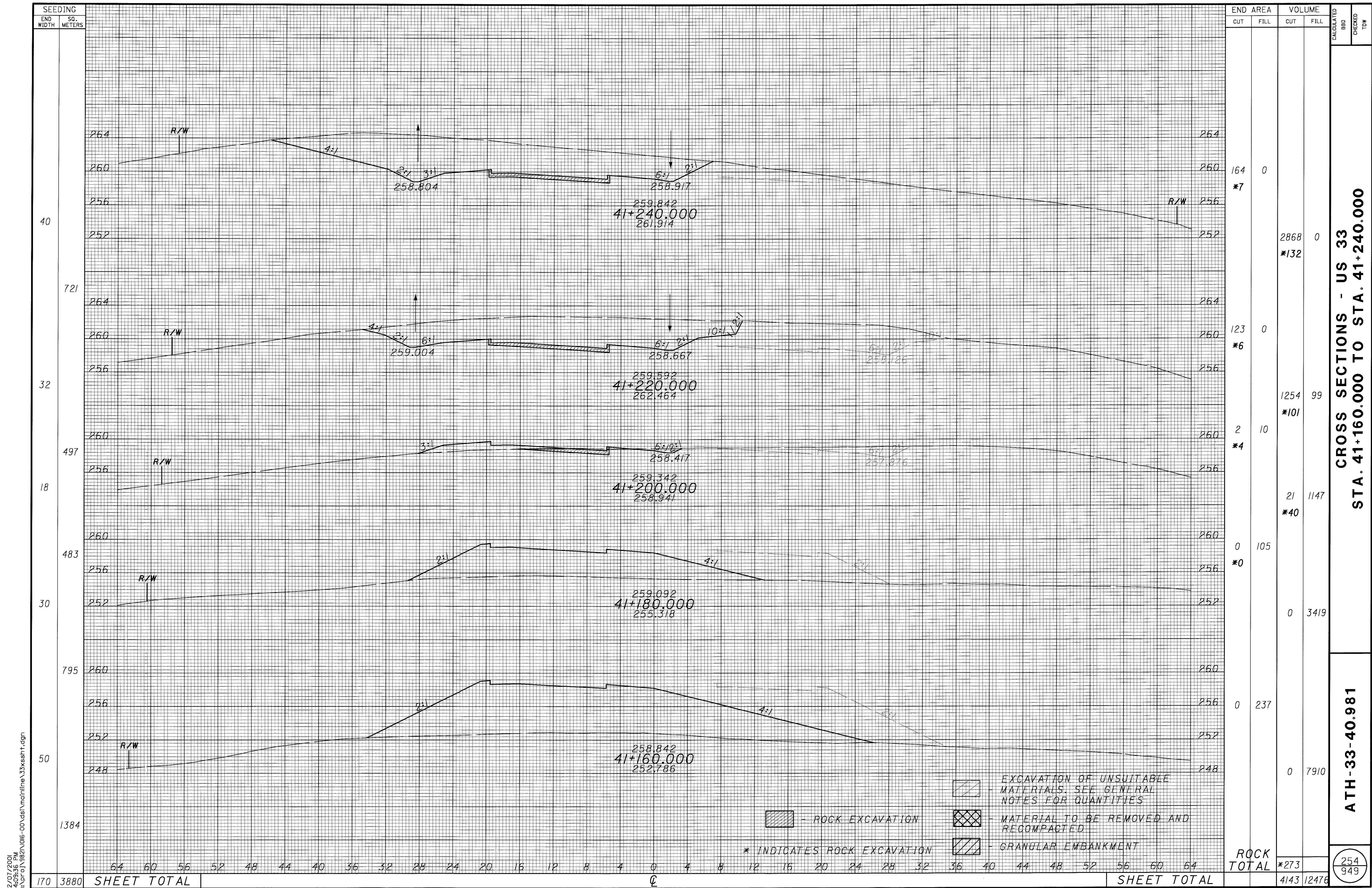
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END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
0	554			
44	11833			
88	11400			
53	7797			
17	3536			
ROCK TOTAL				
		202	34564	

CROSS SECTIONS - US 33
STA. 41+080.000 TO STA. 41+140.000

ATH-33-40.981

253
949



SEEDING	
END WIDTH	SO. METERS
64	
60	
56	
52	
48	
44	
40	
36	
32	
28	
24	
20	
16	
12	
8	
4	
0	
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	
44	
48	
52	
56	
60	
64	

END AREA	VOLUME		CALCULATED	CHECKED	TDW
	CUT	FILL			
164	0		*7		
2868	0		*132		
123	0		*6		
1254	99		*101		
2	10		*4		
21	1147		*40		
0	105		*0		
0	3419				
0	237				
0	7910				
ROCK TOTAL			*273		
SHEET TOTAL		4143	12476		

CROSS SECTIONS - US 33
STA. 41+160.000 TO STA. 41+240.000

ATH-33-40.981

254
 949

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170 3880 SHEET TOTAL

SHEET TOTAL

CL

SEEDING
END WIDTH SQ. METERS

27.2
26.8
26.4
26.0
25.6
25.2

26

15.4
26.8
26.4
26.0
25.6
25.2

16

26.4
26.0
25.6
25.2
24.8

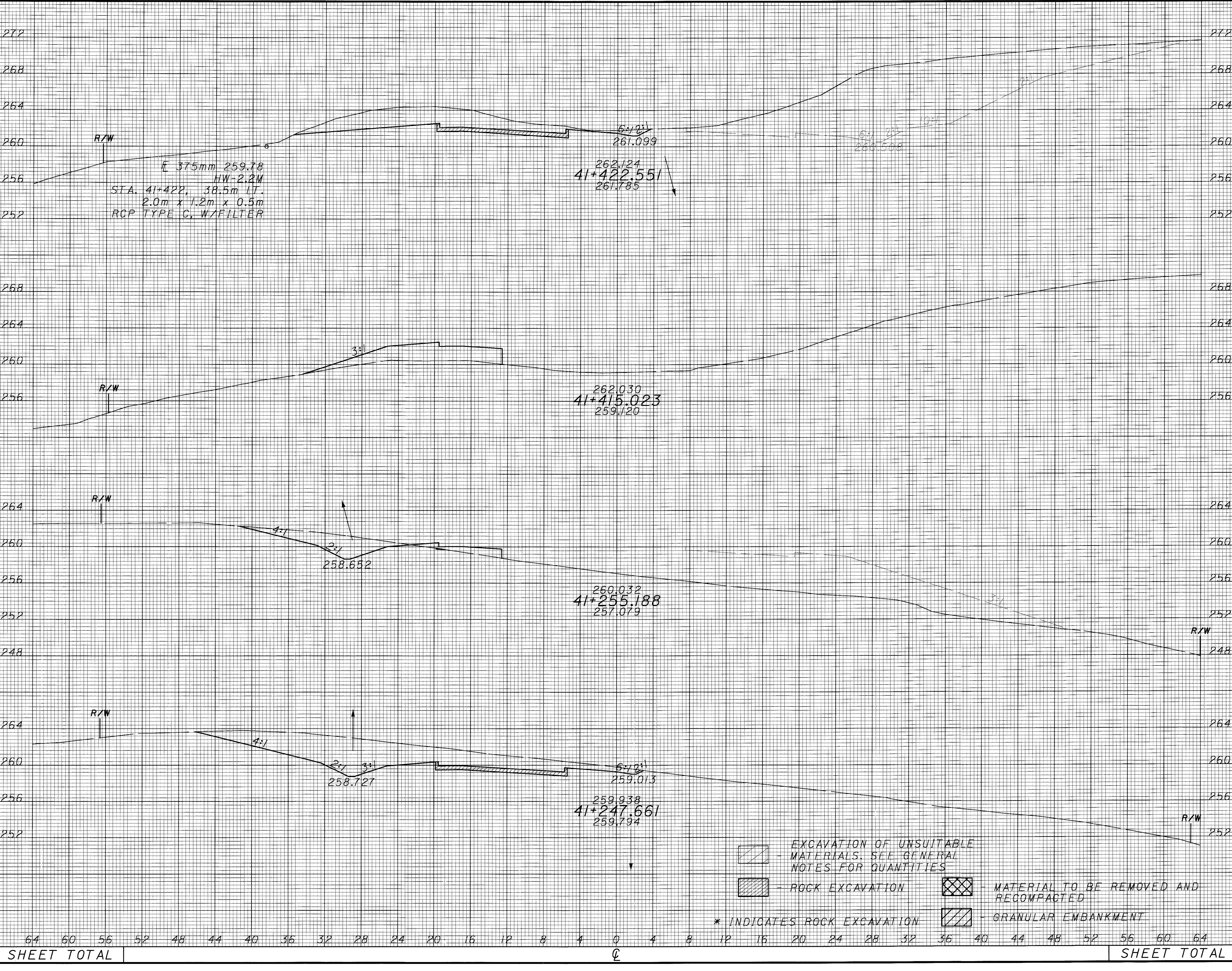
23

22.3
26.4
26.0
25.6
25.2

36

29.5
64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64

101 672 SHEET TOTAL



END AREA		VOLUME		CALCULATED BDD	CHECKED TDW
CUT	FILL	CUT	FILL		
47	0				
*7					
		176	107		
*70					
0	28				
*0					
		0	0		
21	6				
*0					
		404	21		
*70					
86	0				
*7					
		958	0		
*52					
ROCK TOTAL		*192			
SHEET TOTAL		1538	128		

CROSS SECTIONS - US 33
STA. 41+247.661 TO STA. 41+422.551

ATH-33-40.981

255
949

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SEEDING
END WIDTH SQ. METERS

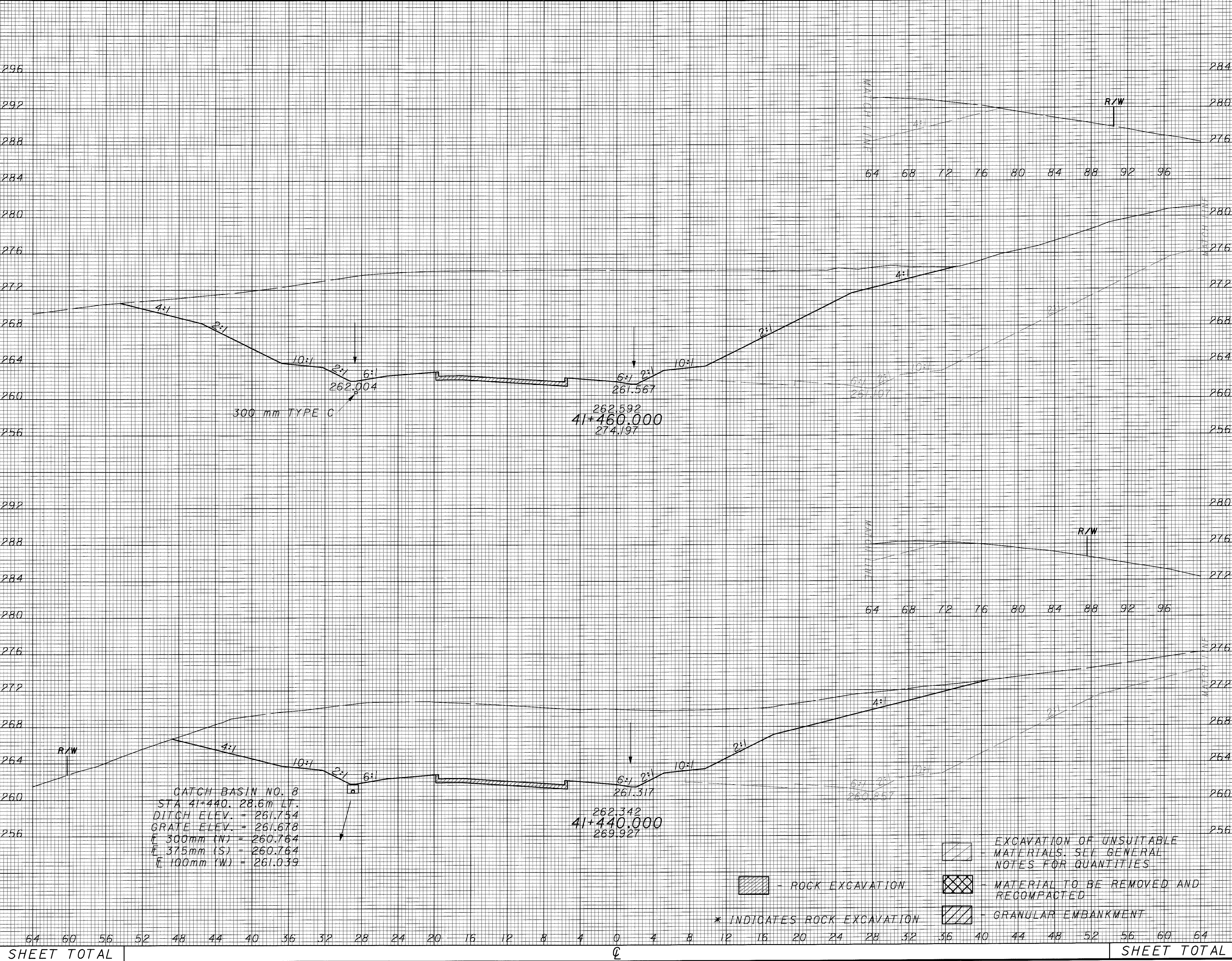
82

1605

78

907

160 2512



CATCH BASIN NO. 8
STA 41+440.28.6m LF.
DITCH ELEV. = 261.754
GRATE ELEV. = 261.678
E 300mm (N) = 260.764
E 375mm (S) = 260.764
E 100mm (W) = 261.039

41+440.000
262.342
269.927

41+460.000
262.592
274.197

- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

END AREA	VOLUME	CALCULATED	CHECKED				
				CUT	FILL	CUT	FILL
708	0	*7					
11880	0	*135					
480	0	*7					
4592	0	*118					
ROCK TOTAL		*253					
SHEET TOTAL		16472	0				

CROSS SECTIONS - US 33
 STA. 41+440.000 TO STA. 41+460.000

ATH-33-40.981

256
949

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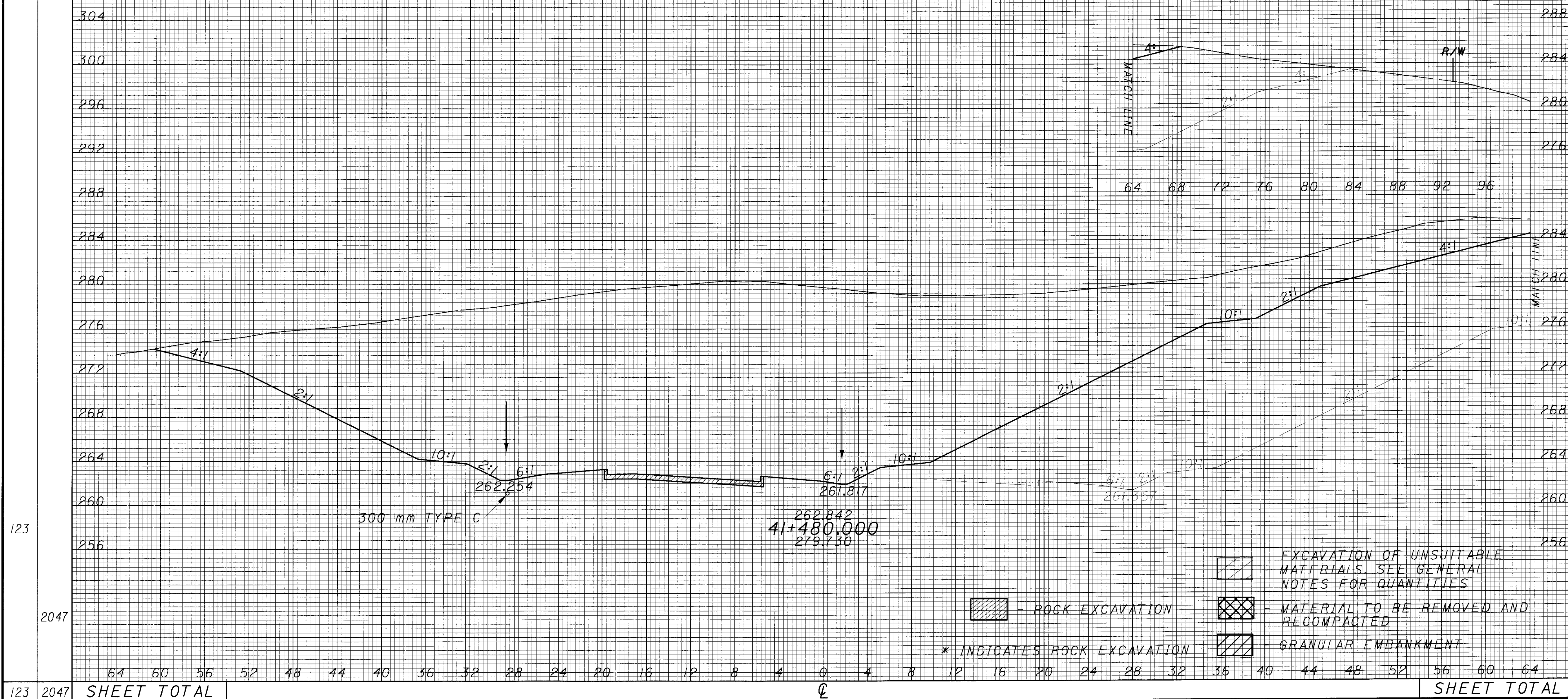
SEEDING	
END WIDTH	SO. METERS
123	2047
123	2047

END	AREA		VOLUME		CALCULATED	BDD	CHECKED	TDW
	CUT	FILL	CUT	FILL				
1233	0							
*7								
19412	0							
*135								
ROCK TOTAL	*135							
19412	0							

CROSS SECTIONS - US 33
STA. 41+480.000

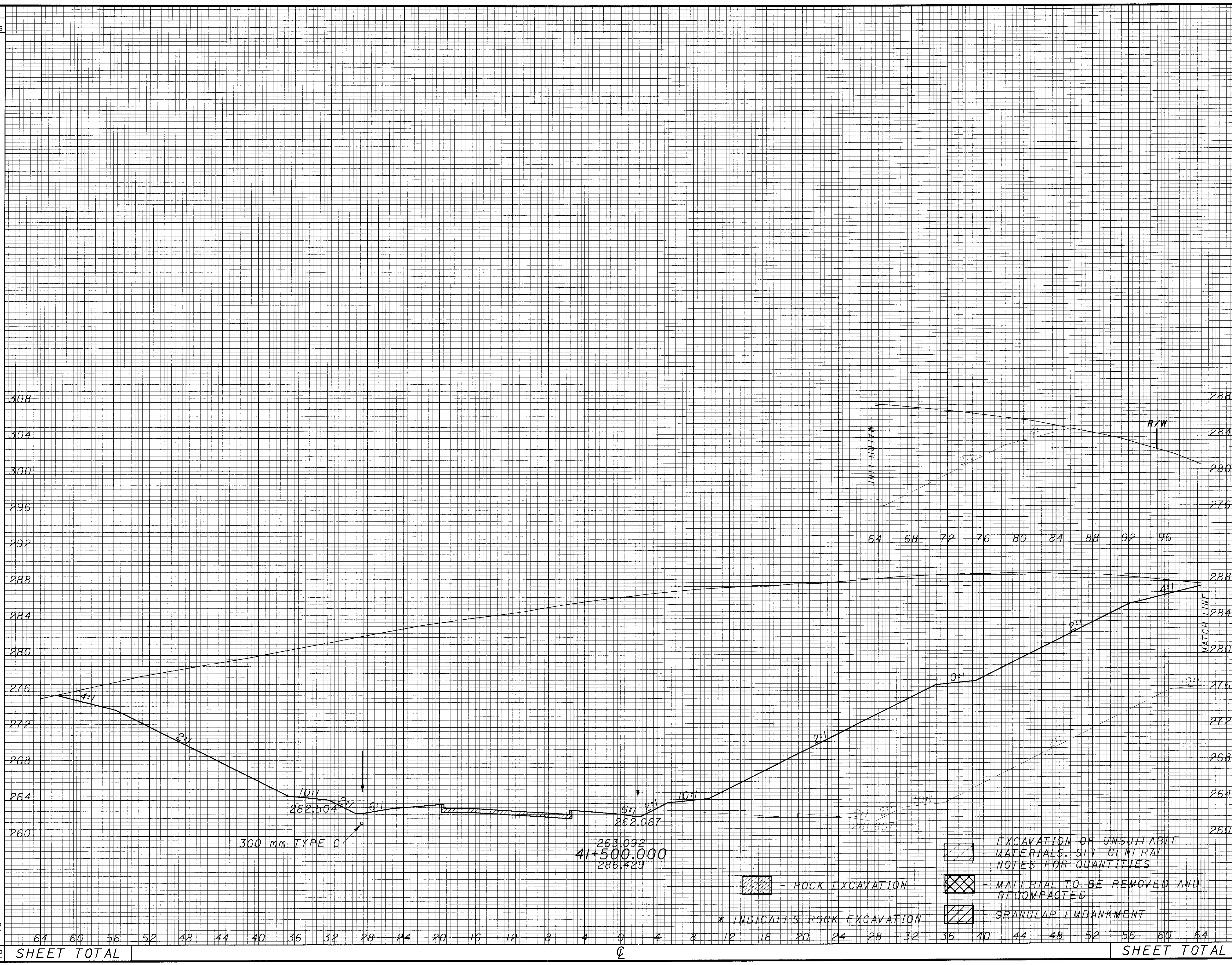
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257
949



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SEEDING	
END WIDTH	SG. METERS
122	2442
122	2442

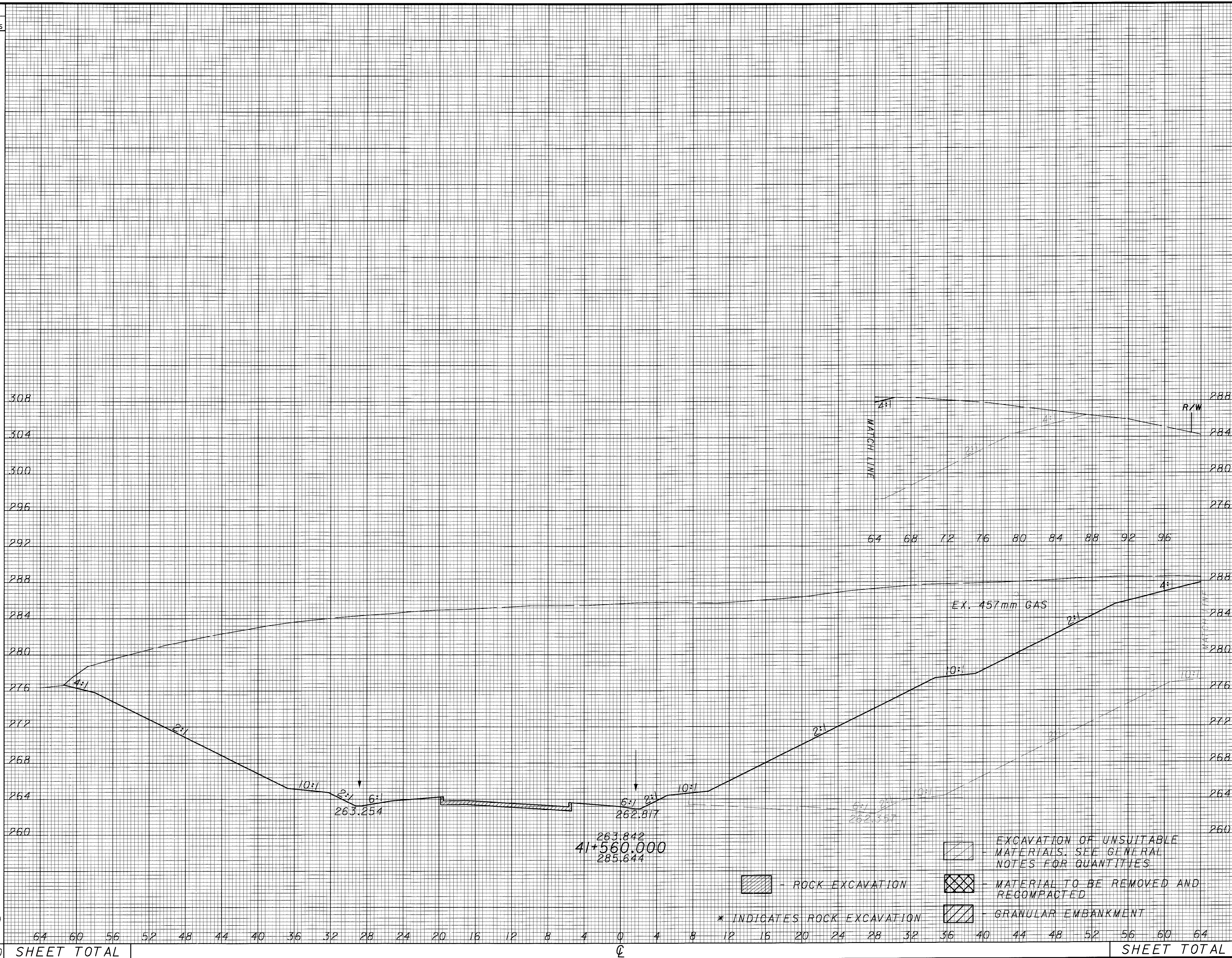


END AREA	VOLUME	
	CUT	FILL
1816	0	
*7		
	30485	0
	*135	
ROCK TOTAL	*135	
SHEET TOTAL	30485	0

CALCULATED BY: _____
 CHECKED BY: _____
 TOWN: _____
CROSS SECTIONS - US 33
STA. 41+500.000
ATH-33-40.981
 258
 949

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SEEDING	
END WIDTH	SQ. METERS
122	2400
SHEET TOTAL	



END AREA	VOLUME	CALCULATED	BDD	CHECKED	TDW
1775	0	*7			
			37710	0	
			*135		
ROCK TOTAL					
			*135		
SHEET TOTAL			37710	0	

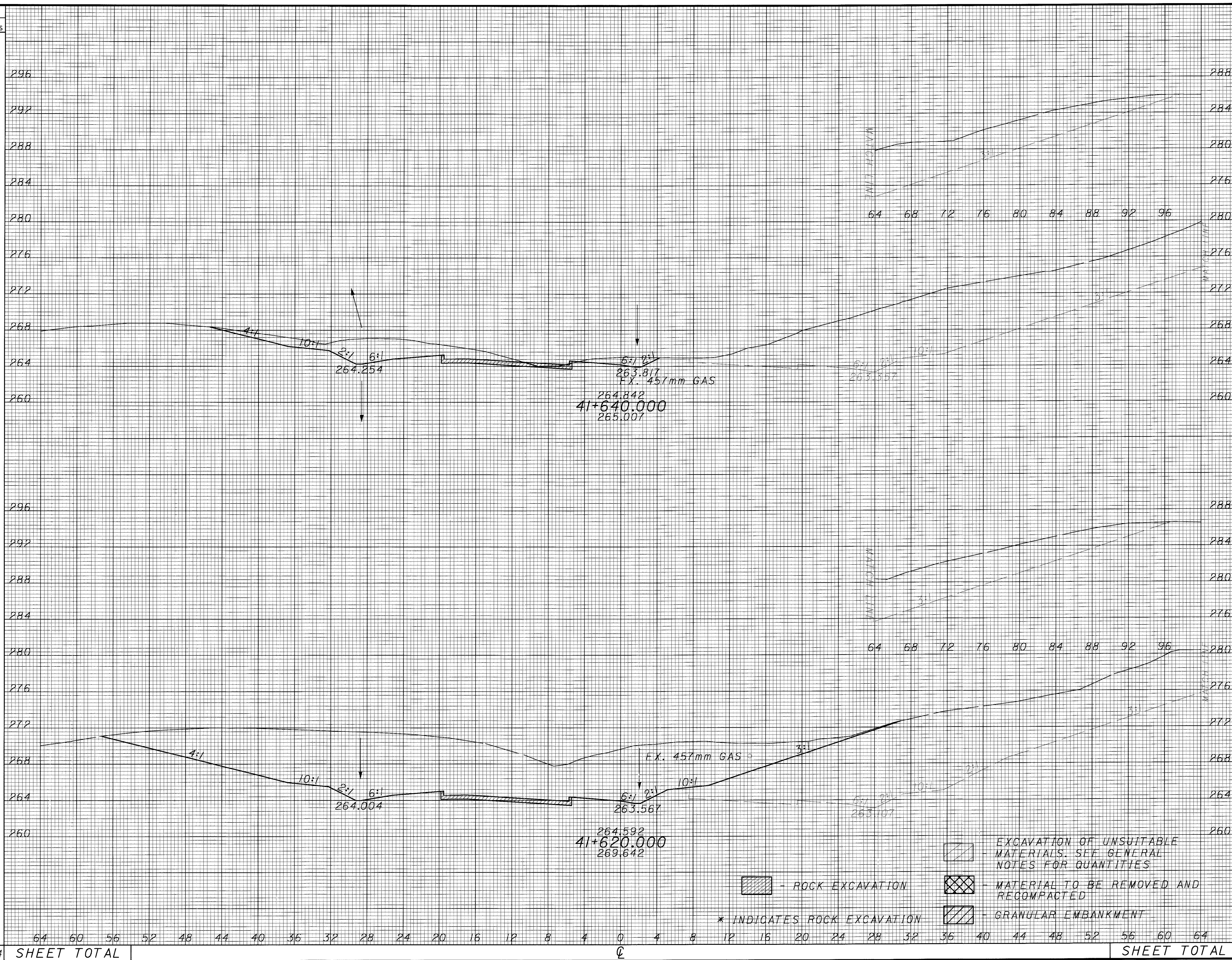
CROSS SECTIONS - US 33
 STA. 41+560.000

ATH-33-40.981

261
 949

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SEEDING	END WIDTH		SQ. METERS
	CUT	FILL	
37	47	1	4135
1137	*7		*134
77	367	0	11552
1837	*7		*135
114	2974		SHEET TOTAL



- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

END AREA	VOLUME	
	CUT	FILL
47	1	4135
*7		*134
367	0	11552
*7		*135
ROCK TOTAL	*269	
SHEET TOTAL	15687	12

CROSS SECTIONS - US 33
 STA. 41+620.000 TO STA. 41+640.000

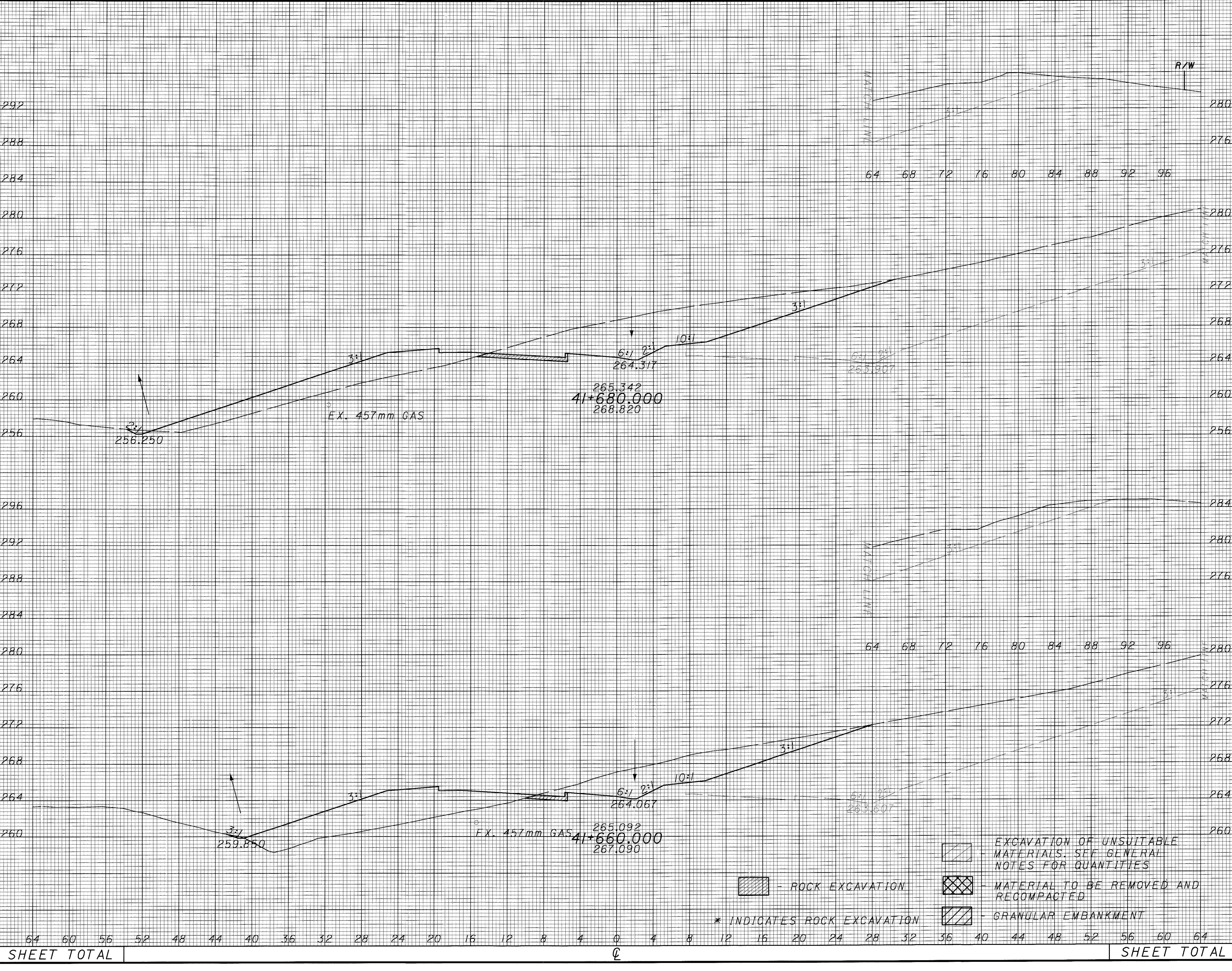
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264
949

SEEDING
END WIDTH SQ. METERS

73
1326
59
961

132 2287



END AREA	VOLUME		CALCULATED	CHECKED	TDW
	CUT	FILL			
116	64				
*4					
1823	1457				
*63					
66	82				
*2					
1128	827				
*86					
ROCK TOTAL	*149				
	2951	2284			

CROSS SECTIONS - US 33
STA. 41+660.000 TO STA. 41+680.000

ATH-33-40.981

265
949

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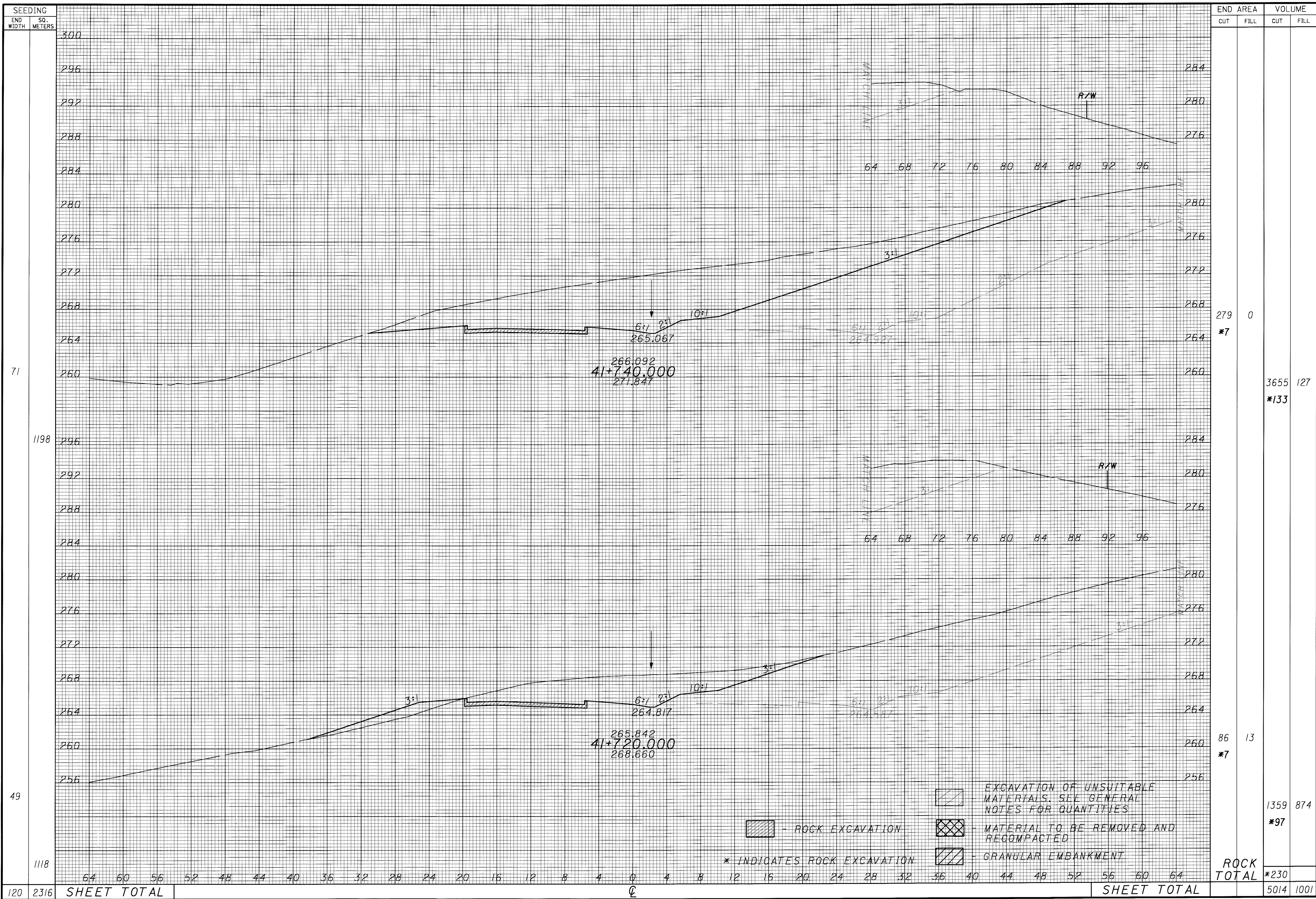
SHEET TOTAL

SHEET TOTAL

* INDICATES ROCK EXCAVATION

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT

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SEEDING	
END WIDTH	SO. METERS
120	2316
71	
1198	
49	
1118	

END AREA	VOLUME	
	CUT	FILL
279 *7	0	
	3655 *133	127
86 *7	13	
	1359 *97	874
ROCK TOTAL	*230	
SHEET TOTAL	5014	1001

CALCULATED BY: BBO
 CHECKED BY: TDW
CROSS SECTIONS - US 33
STA. 41+720.000 TO STA. 41+740.000
ATH-33-40.981
 267
 949

SEEDING
END SO.
WIDTH METERS

100
1894
90
1606

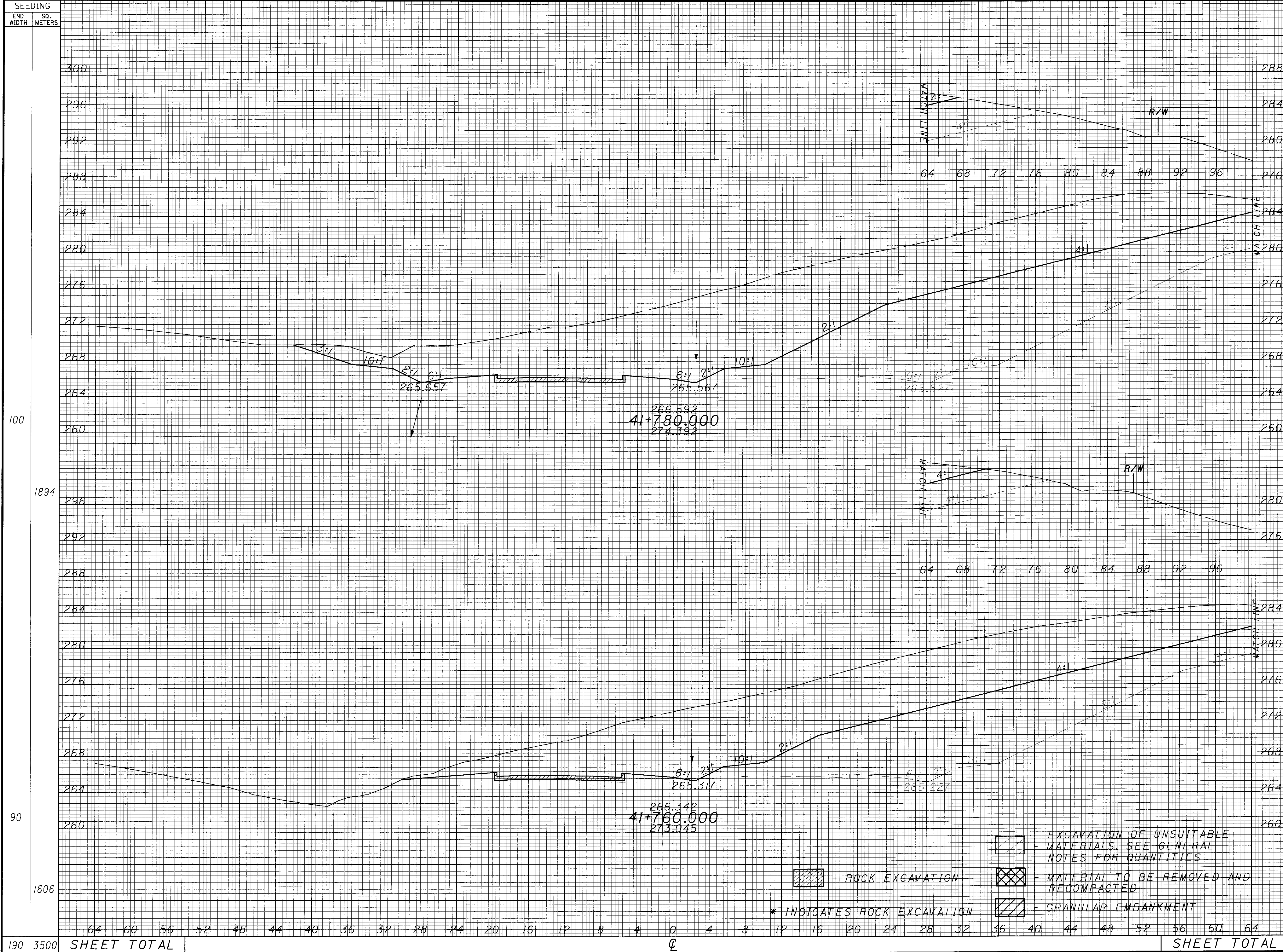
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END AREA	VOLUME	CALCULATED	CHECKED						
				CUT	FILL	CUT	FILL	BY	DATE
583	0	*7							
10693	0	*132							
486	0	*7							
7657	0	*132							
ROCK TOTAL		*264							
SHEET TOTAL		18350	0						

CROSS SECTIONS - US 33
STA. 41+760.000 TO STA. 41+780.000

ATH-33-40.981

268
949

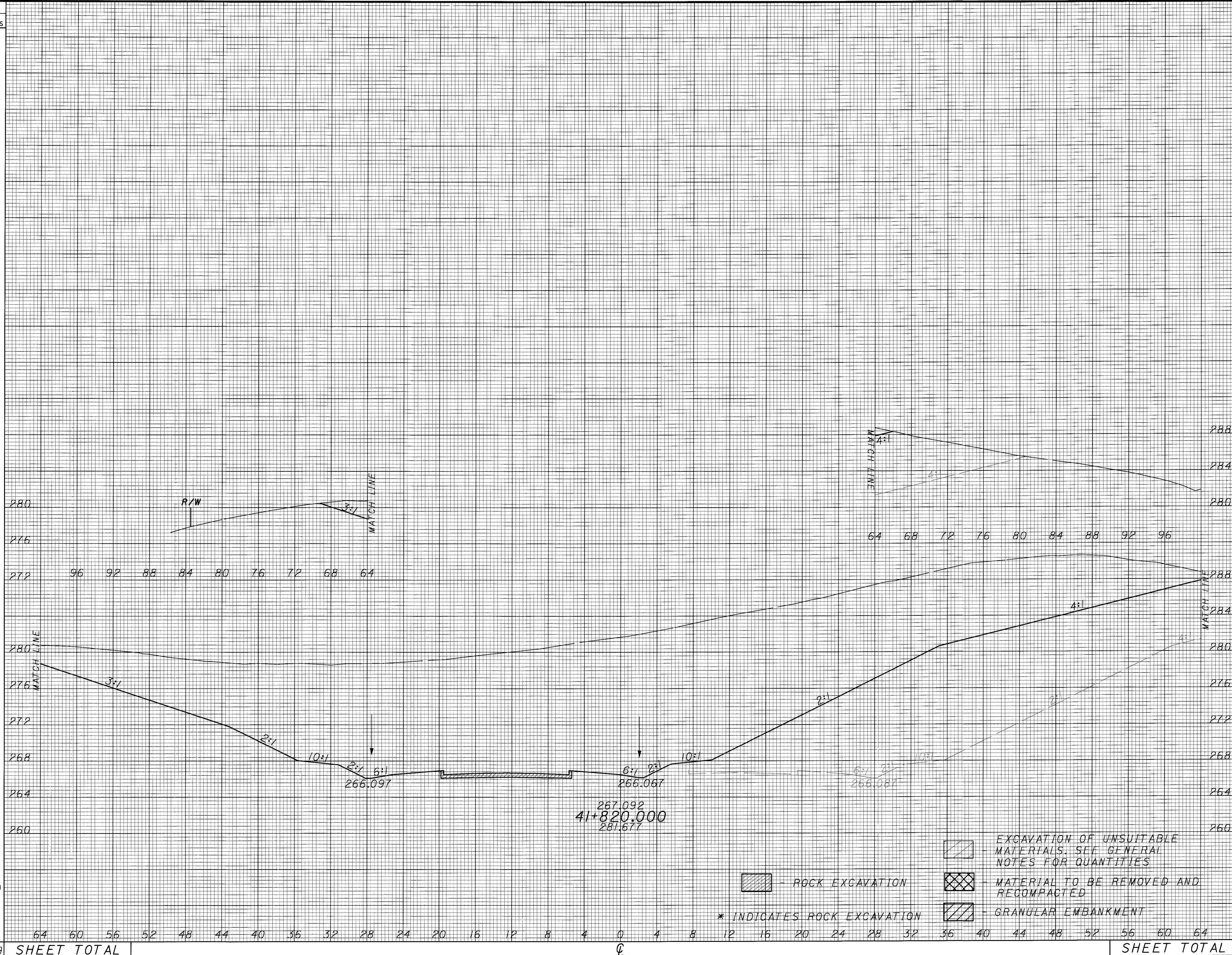


190 3500 SHEET TOTAL

SHEET TOTAL

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SEEDING	
END WIDTH	SO. METERS
128	2429
SHEET TOTAL	



END AREA		VOLUME		CALCULATED BY	CHECKED TOW
CUT	FILL	CUT	FILL		
1246	0				
*6					
		20661	0		
		*129			
ROCK TOTAL		*129			
SHEET TOTAL		20661	0		

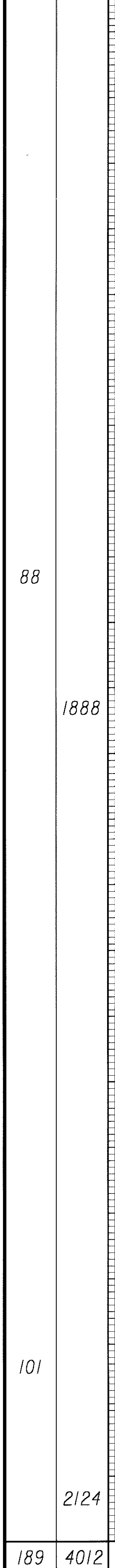
CROSS SECTIONS - US 33
 STA. 41+820.000

ATH-33-40.981

270
 949

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SEEDING END WIDTH	SQ. METERS	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
88				720	0
				*6	
1888				18208	0
				*129	
101				1101	0
				*6	
				24791	0
				*129	
2124				ROCK TOTAL	*258
					949
189	4012	SHEET TOTAL		42999	0



268.092
 41+900.000
 274.171

267.842
 41+880.000
 280.200

- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

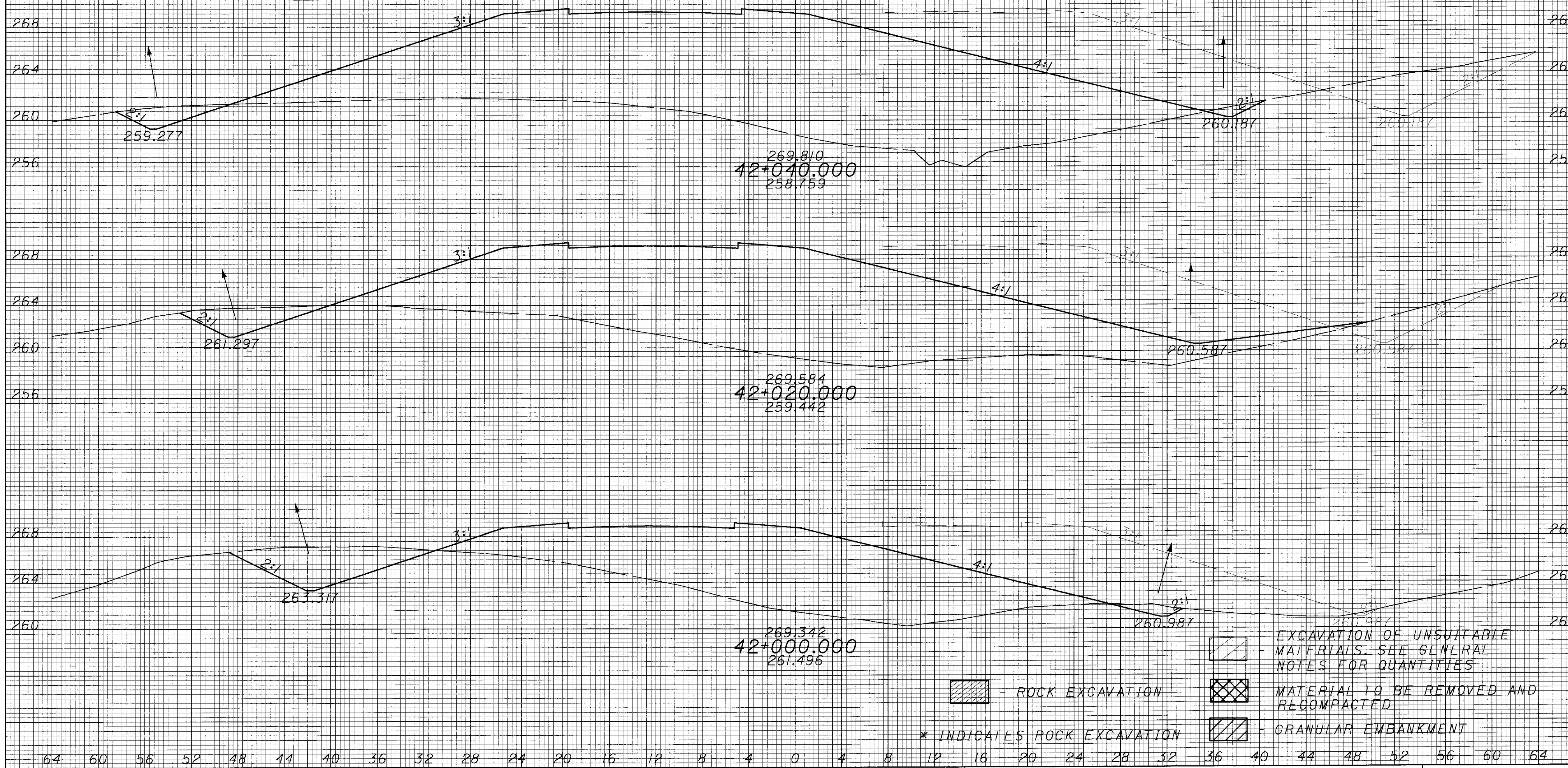
CROSS SECTIONS - US 33
 STA. 41+880.000 TO STA. 41+900.000

ATH-33-40.981

273
 949

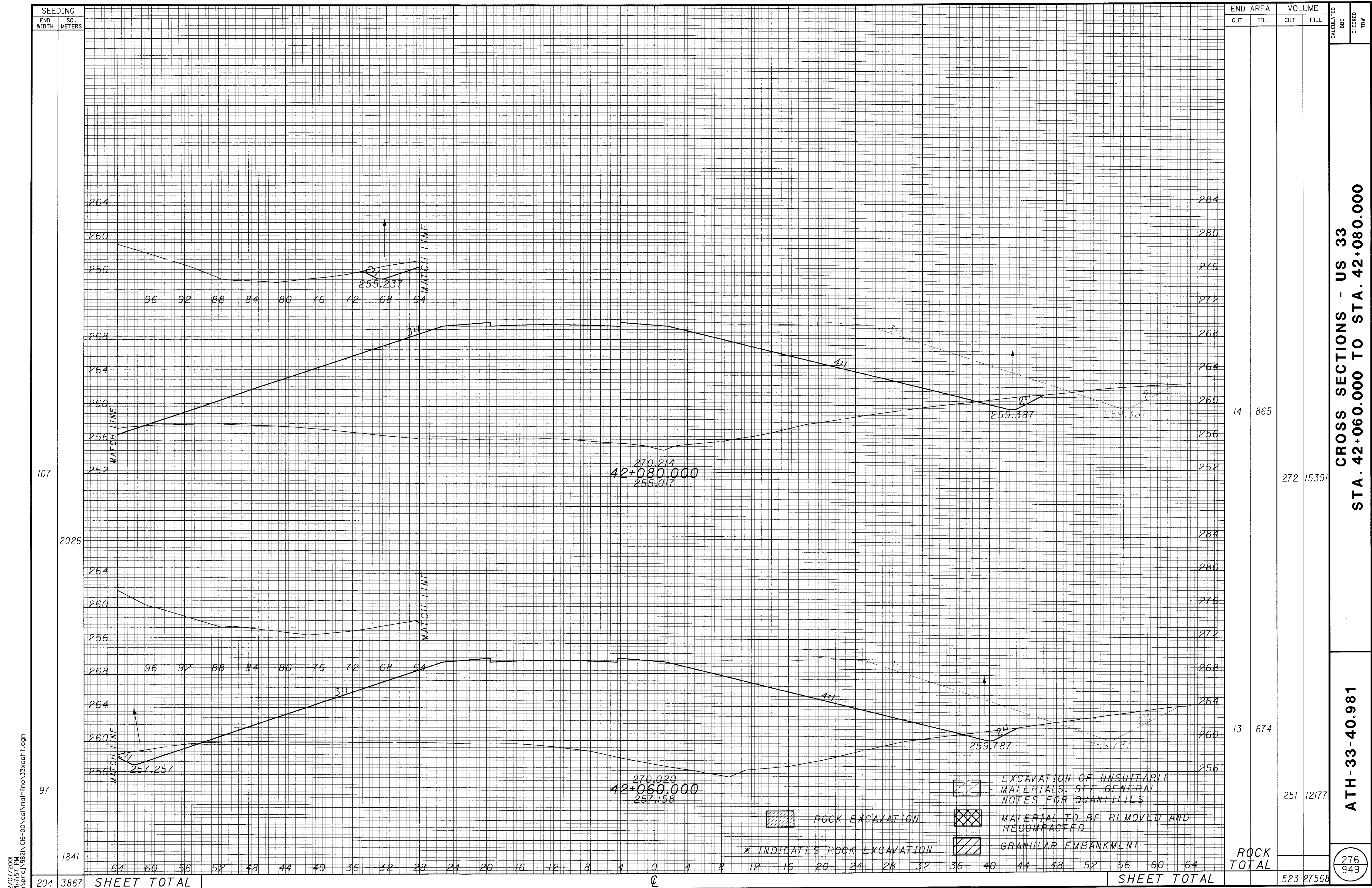
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SEEDING	
END WIDTH	SG. METERS
64	
60	
56	
52	
48	
44	
40	
36	
32	
28	
24	
20	
16	
12	
8	
4	
0	
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	
44	
48	
52	
56	
60	
64	
SHEET TOTAL	



END AREA	VOLUME	CALCULATED	CHECKED	TOW
12	543			
289	9815			
17	438			
563	6802			
40	242			
802	3636			
ROCK TOTAL				
SHEET TOTAL		1654	20253	

CROSS SECTIONS - US 33
STA. 42+000.000 TO STA. 42+040.000
ATH-33-40.981
 275
 949



SEEDING END WIDTH	SQ. METERS	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
107			14	865	
2026			272	15391	
97			13	674	
1841			251	12177	
204	3867	SHEET TOTAL			
				ROCK TOTAL	
				523	27566

CALCULATED
 BDD
 CHECKED
 TON

**CROSS SECTIONS - US 33
 STA. 42+060.000 TO STA. 42+080.000**

ATH-33-40.981

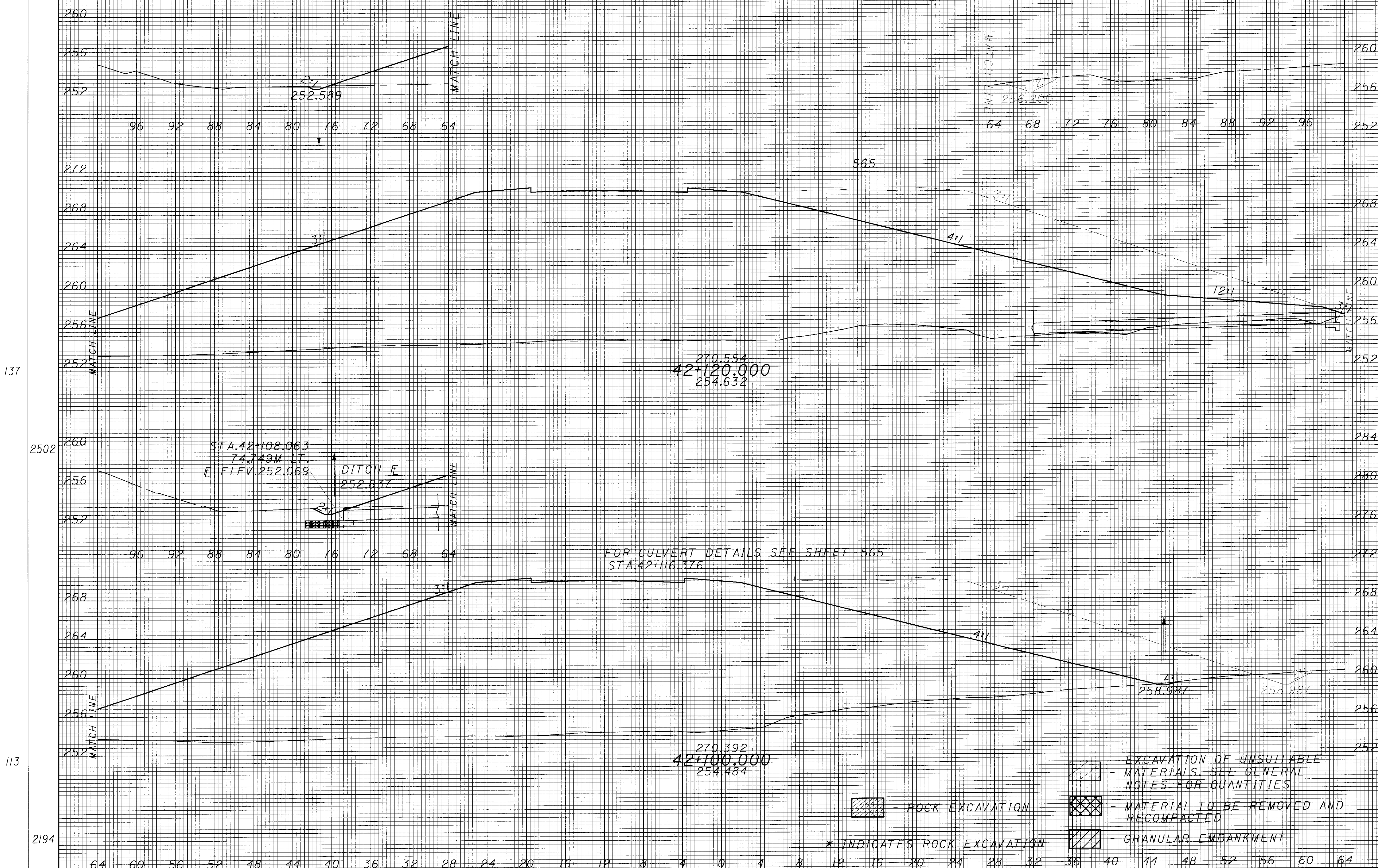
276
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- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION
- ROCK EXCAVATION

SEEDING
END WIDTH SQ. METERS

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
BDD
CHECKED
TDW



270.554
42+120.000
254.632

270.392
42+100.000
254.484

STA. 42+108.063
74.749M LT.
F. ELEV. 252.069

DITCH F
252.837

FOR CULVERT DETAILS SEE SHEET 565
STA. 42+116.376

- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

END AREA		VOLUME	
CUT	FILL	CUT	FILL
3	1259		
		51	23757
2	1117		
		159	19816
ROCK TOTAL			
		210	43573

CROSS SECTIONS - US 33
STA. 42+100.000 TO STA. 42+120.000

ATH-33-40.981

277
949

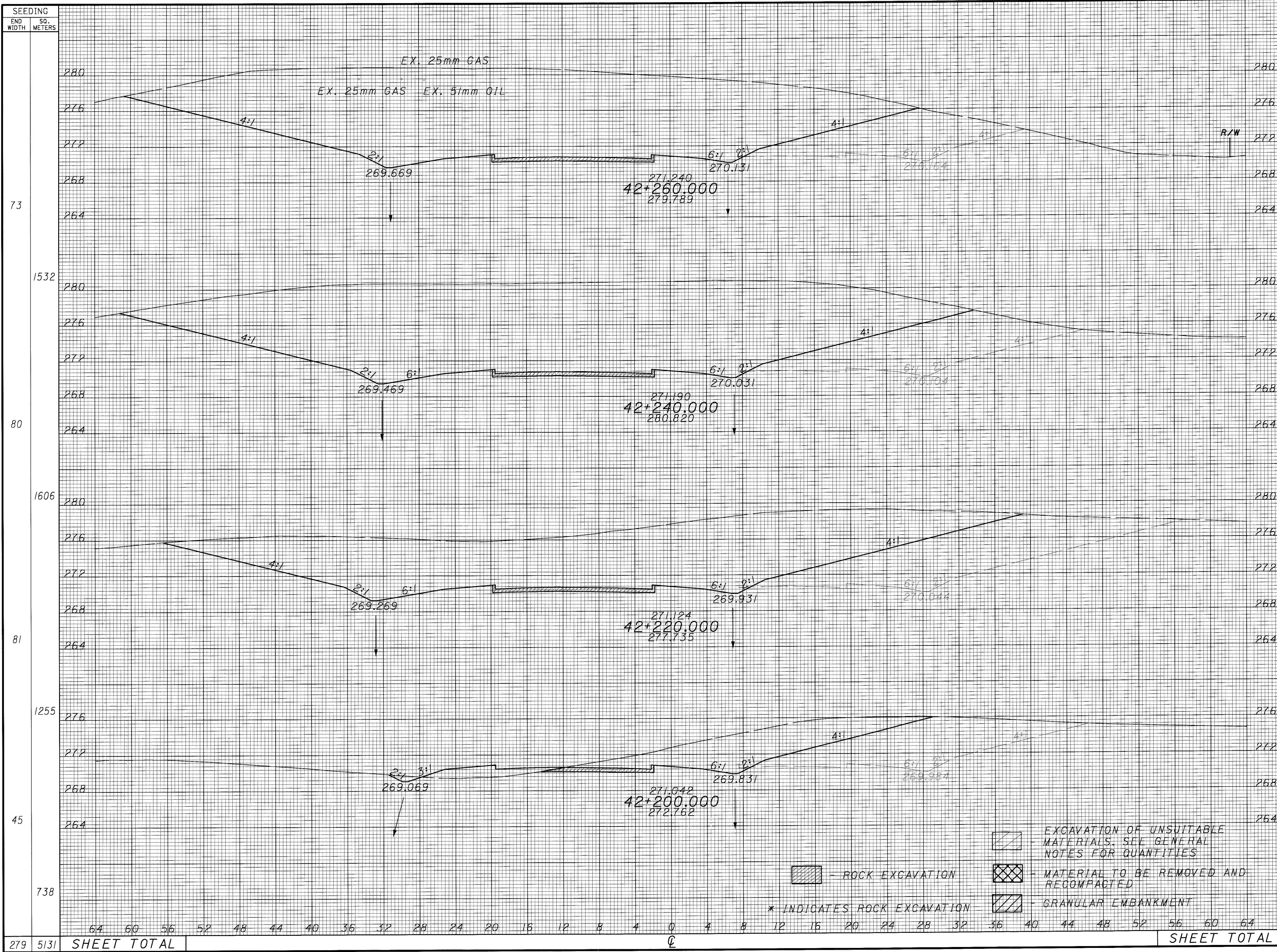
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250 4696 SHEET TOTAL

SHEET TOTAL

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SEEDING	END WIDTH	SO. METERS	END AREA		VOLUME		CALCULATED	CHECKED																														
			CUT	FILL	CUT	FILL																																
	64	60	56	52	48	44	40	36	32	28	24	20	16	12	8	4	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64					
	279	5131	SHEET TOTAL																																			



EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

ROCK EXCAVATION

MATERIAL TO BE REMOVED AND RECOMPACTED

GRANULAR EMBANKMENT

* INDICATES ROCK EXCAVATION

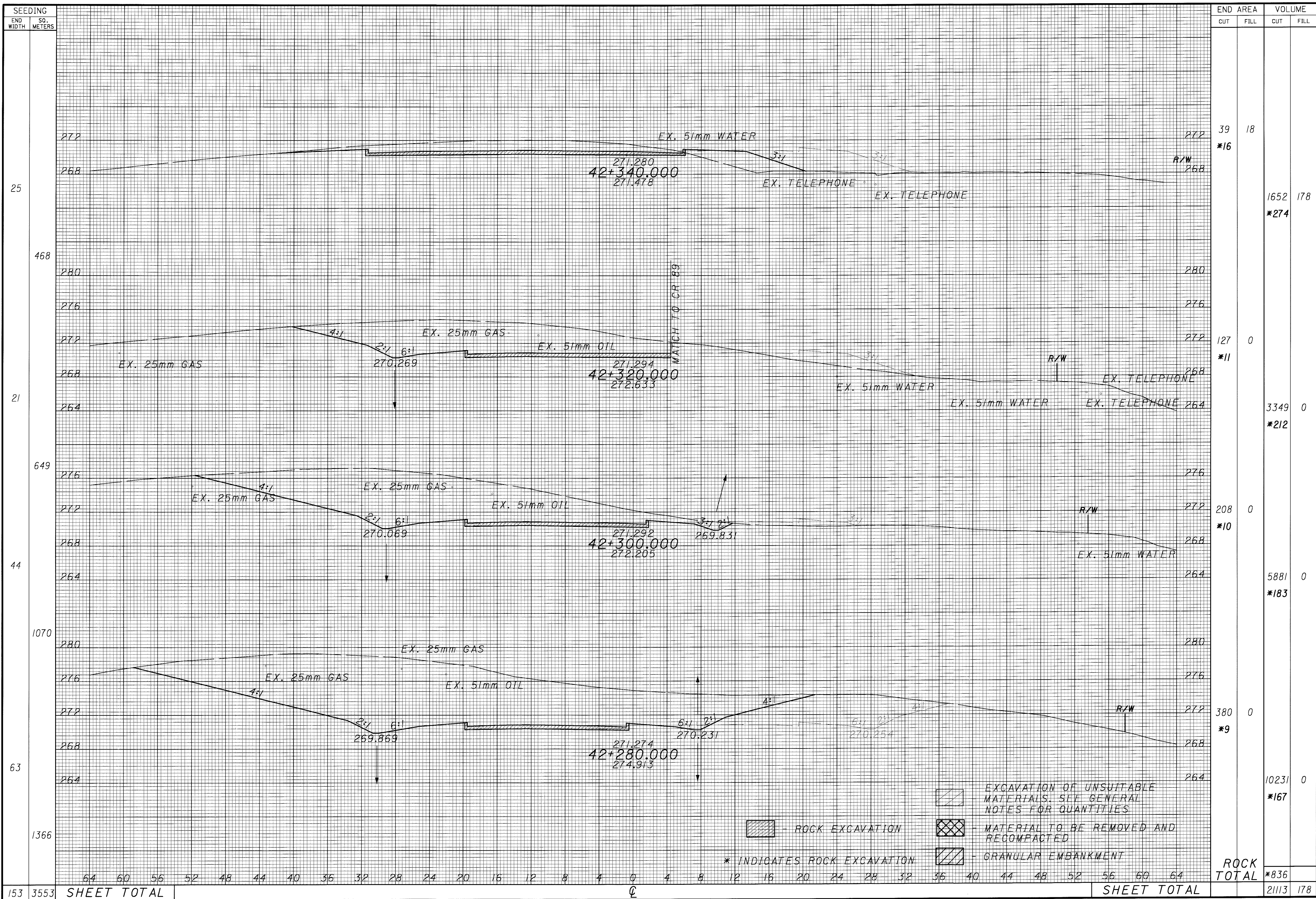
CROSS SECTIONS - US 33
 STA. 42+200.000 TO STA. 42+260.000

ATH-33-40.981

279
 949

END AREA	VOLUME	CALCULATED	CHECKED
643	0	*8	
13596	0	*161	
716	0	*8	
11920	0	*161	
476	0	*8	
5654	125	*131	
90	13	*5	
900	1569	*50	
ROCK TOTAL		*503	
SHEET TOTAL		32070	1694

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SEEDING	END WIDTH		SQ. METERS
	END WIDTH	END WIDTH	
	64	60	56
	52	48	44
	40	36	32
	28	24	20
	16	12	8
	4	0	4
	8	12	16
	20	24	32
	36	40	44
	48	52	56
	60	64	64
SHEET TOTAL	153	3553	

END AREA	VOLUME	
	CUT	FILL
39	18	
*16		
	1652	178
	*274	
127	0	
*11		
	3349	0
	*212	
208	0	
*10		
	5881	0
	*183	
380	0	
*9		
	10231	0
	*167	
ROCK TOTAL	*836	
SHEET TOTAL	2113	178

CALCULATED
 BDD
 CHECKED
 TDW

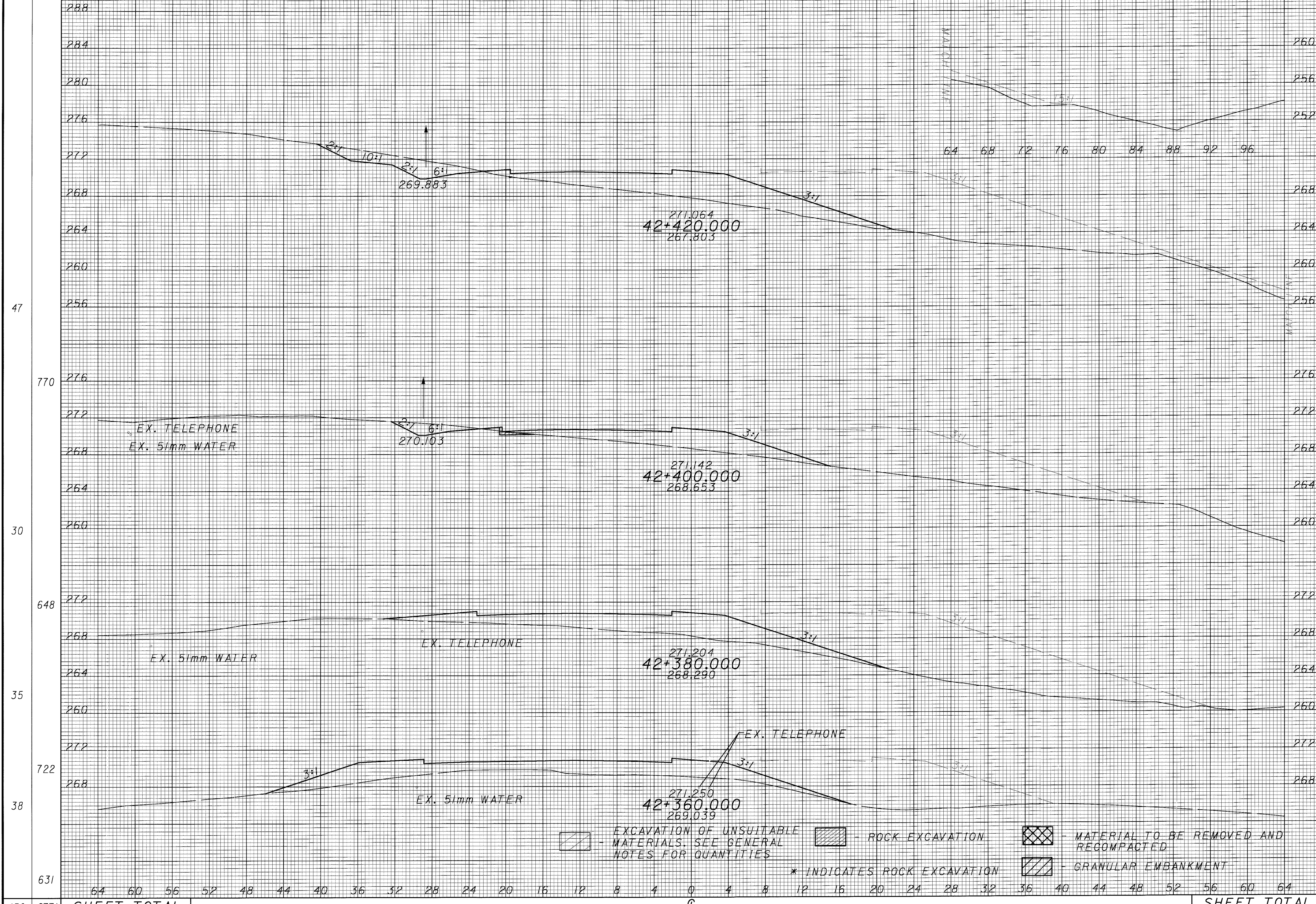
CROSS SECTIONS - US 33
STA. 42+280.000 TO STA. 42+340.000

ATH-33-40.981

280
 949

SEEDING
END WIDTH SO. METERS

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED 890 CHECKED TDW



STATION	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
42+420.000	19	73	*0	73
42+400.000	6	43	*1	43
42+380.000	0	73	*0	73
42+360.000	0	77	*0	77
ROCK TOTAL	*178			
SHEET TOTAL	709	4790		

EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
 ROCK EXCAVATION
 MATERIAL TO BE REMOVED AND RECOMPACTED
 GRANULAR EMBANKMENT
 * INDICATES ROCK EXCAVATION

CROSS SECTIONS - US 33
 STA. 42+360.000 TO STA. 42+420.000

ATH-33-40.981

281
 949

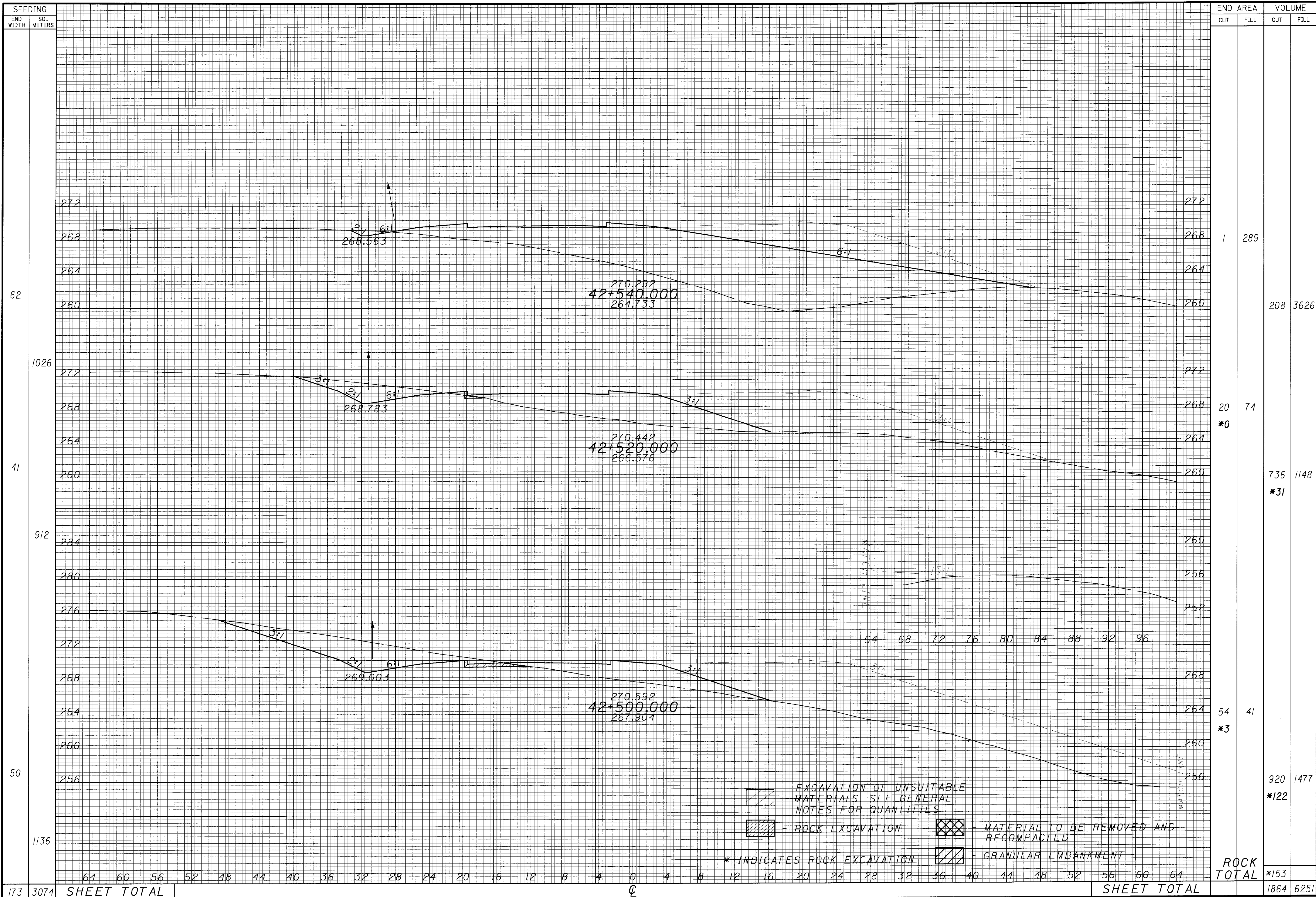
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150 2771 SHEET TOTAL

SHEET TOTAL

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173 3074 SHEET TOTAL

END	AREA		VOLUME		CALCULATED	BDD	CHECKED	TDW
	CUT	FILL	CUT	FILL				
272								
268	1	289						
264								
260			208	3626				
272								
268	20	74						
264	*0							
260			736	1148				
284								
280								
276								
272								
268								
264	54	41						
260	*3							
256			920	1477				
252			*122					
ROCK TOTAL			*153					
SHEET TOTAL			1864	6251				

CROSS SECTIONS - US 33
STA. 42+500.000 TO STA. 42+540.000

ATH-33-40.981

283
949

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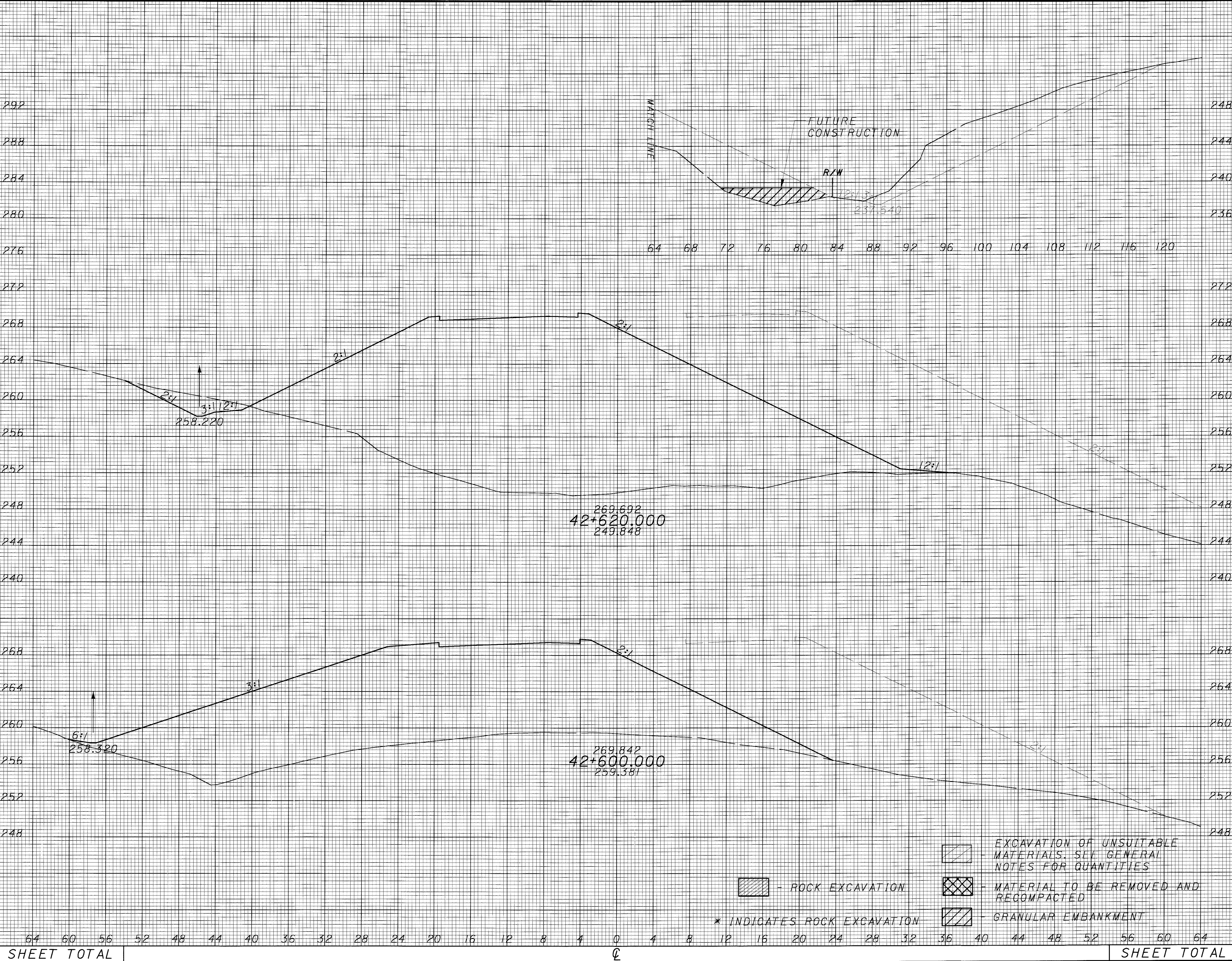
SEEDING	
END WIDTH	SO. METERS
156	1902
64	60
56	52
48	44
40	36
32	28
24	20
16	12
8	4
0	0
4	8
12	16
20	24
28	32
36	40
44	48
52	56
60	64



END AREA	VOLUME	CALCULATED	CHECKED					
				CUT	FILL	CUT	FILL	BY
0	314							
12	5848							
1	270							
20	5591							
ROCK TOTAL								
SHEET TOTAL				32	11439			

CROSS SECTIONS - US 33
STA. 42+560.000 TO STA. 42+580.000
ATH-33-40.981
 284
 949

SEEDING
 END WIDTH SO. METERS
 156 3/23



END AREA	VOLUME		CALCULATED	CHECKED	DW
	CUT	FILL			
16	834				
		156	14288		
0	595				
		0	9090		
ROCK TOTAL					
156	23378				

CROSS SECTIONS - US 33
 STA. 42+600.000 TO STA. 42+620.000

ATH-33-40.981

285
949

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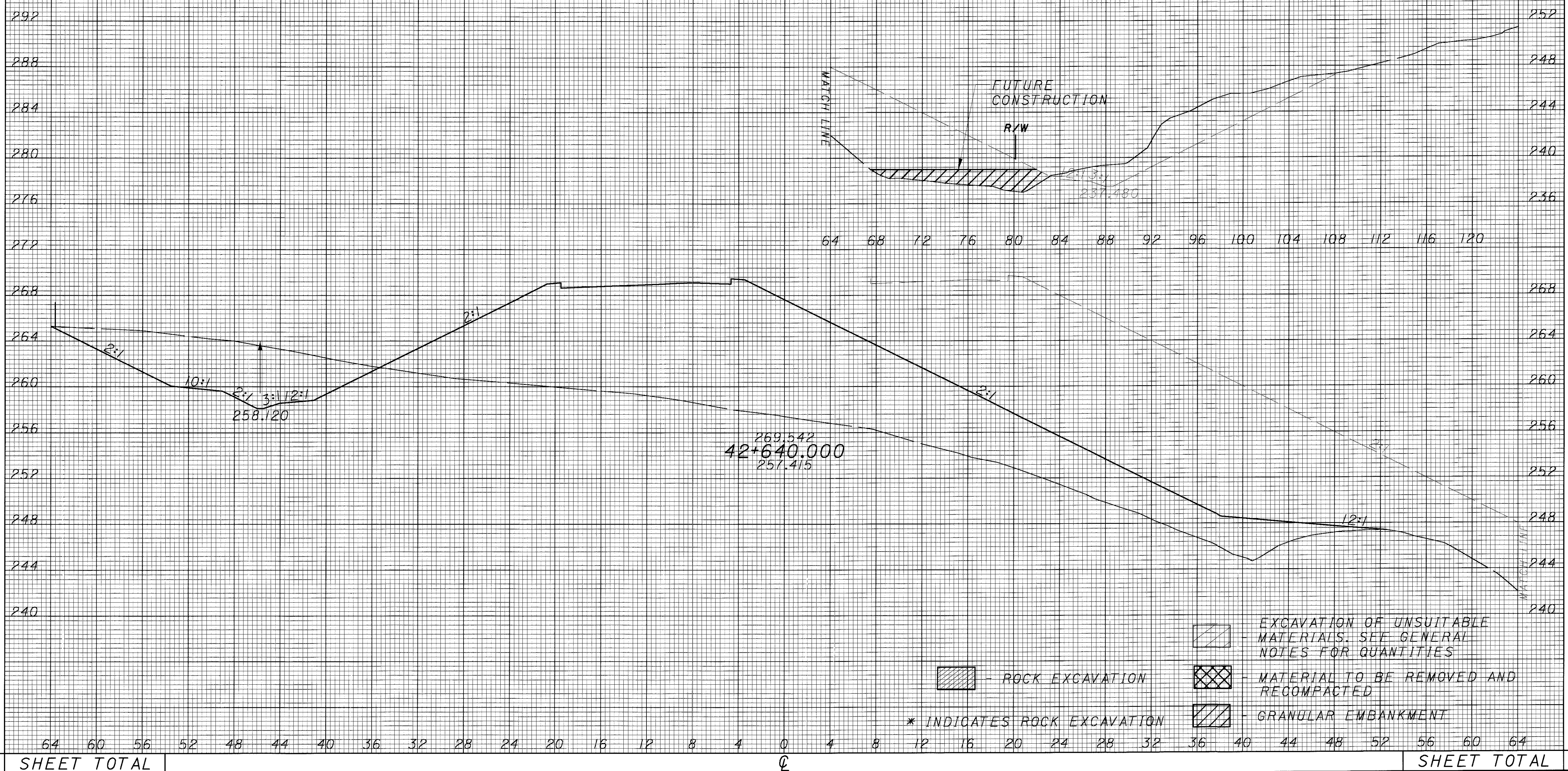
SHEET TOTAL

SHEET TOTAL

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

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SEEDING	
END WIDTH	SQ. METERS
64	
60	
56	
52	
48	
44	
40	
36	
32	
28	
24	
20	
16	
12	
8	
4	
0	
4	
8	
12	
16	
20	
24	
28	
32	
36	
40	
44	
48	
52	
56	
60	
64	
SHEET TOTAL	



END AREA		VOLUME		CALCULATED BY	CHECKED BY	TDW
CUT	FILL	CUT	FILL			
94	508					
		1096	13420			
ROCK TOTAL						
SHEET TOTAL		1096	13420			

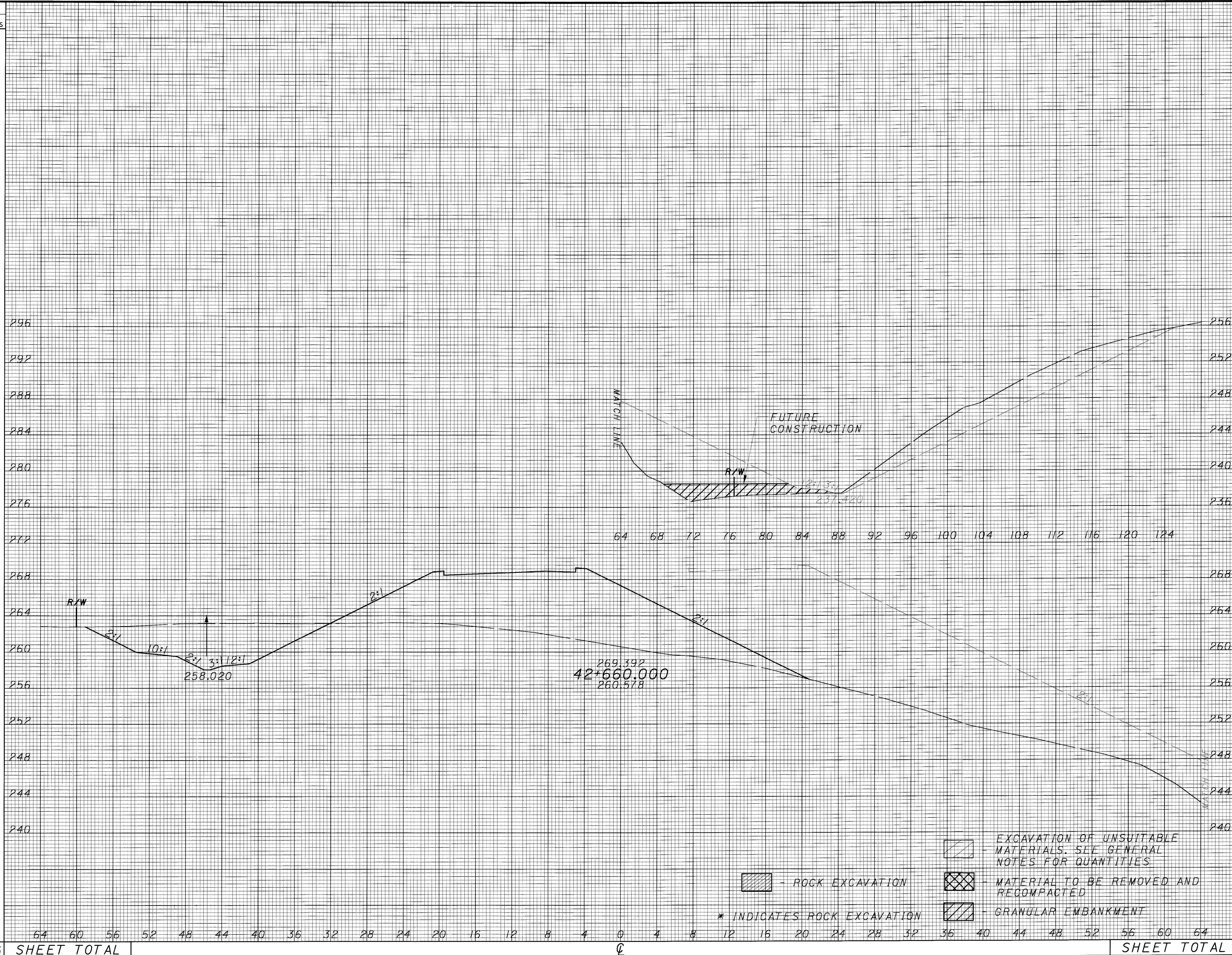
CROSS SECTIONS - US 33
STA. 42+640.000

ATH-33-40.981

286
949

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SEEDING	
END WIDTH	Sq. METERS
72	1825
72	1825



END AREA		VOLUME	
CUT	FILL	CUT	FILL
79	234	1727	7415
ROCK TOTAL			
SHEET TOTAL		1727	7415

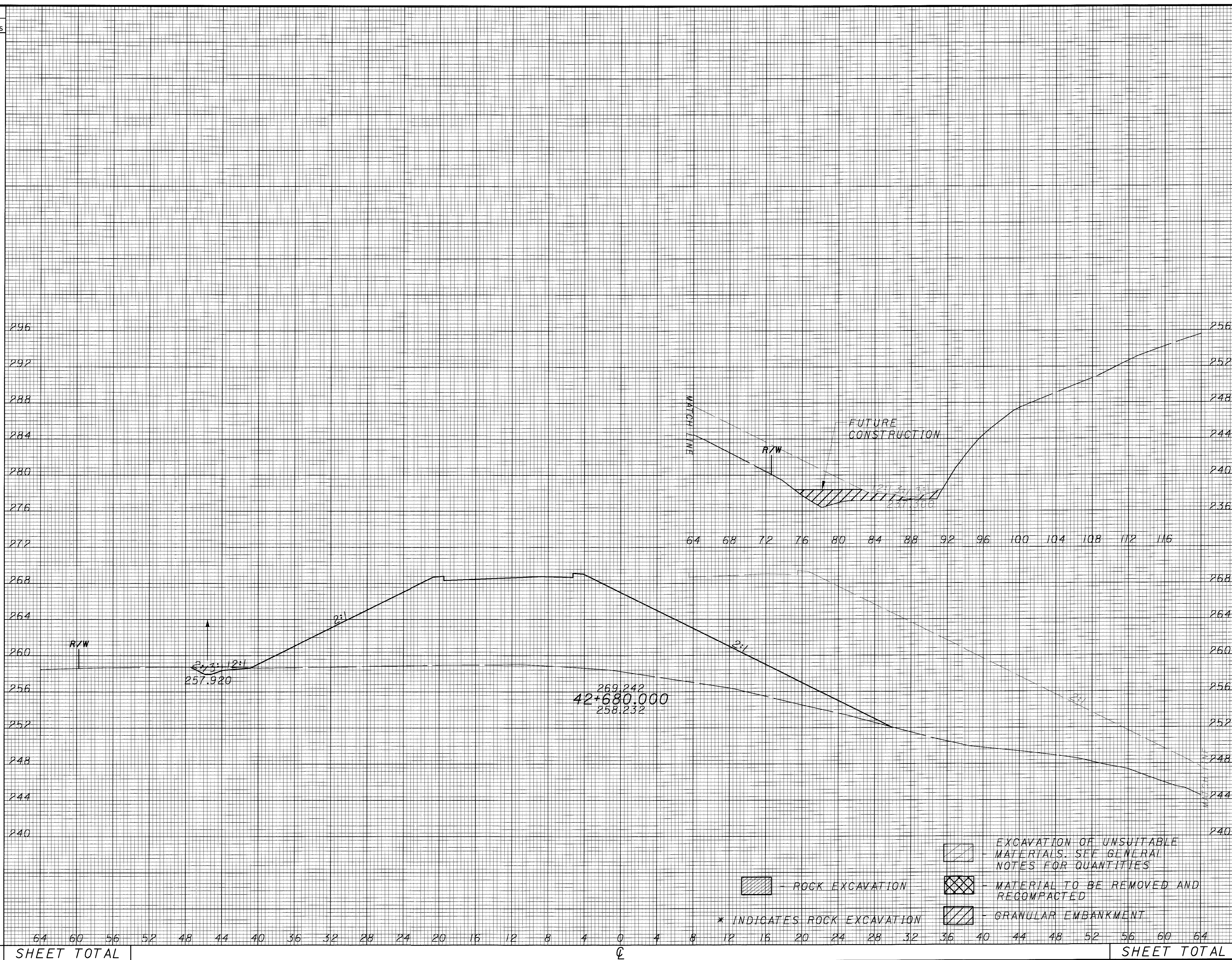
CROSS SECTIONS - US 33
 STA. 42+660.000

ATH-33-40.981

287
 949

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SEEDING	
END WIDTH	SQ. METERS
70	1414
SHEET TOTAL	



END AREA		VOLUME		CALCULATED BY	CHECKED BY	TDW
CUT	FILL	CUT	FILL			
3	421	811	6545			
ROCK TOTAL						
811	6545					

CROSS SECTIONS - US 33
 STA. 42+680.000

ATH-33-40.981

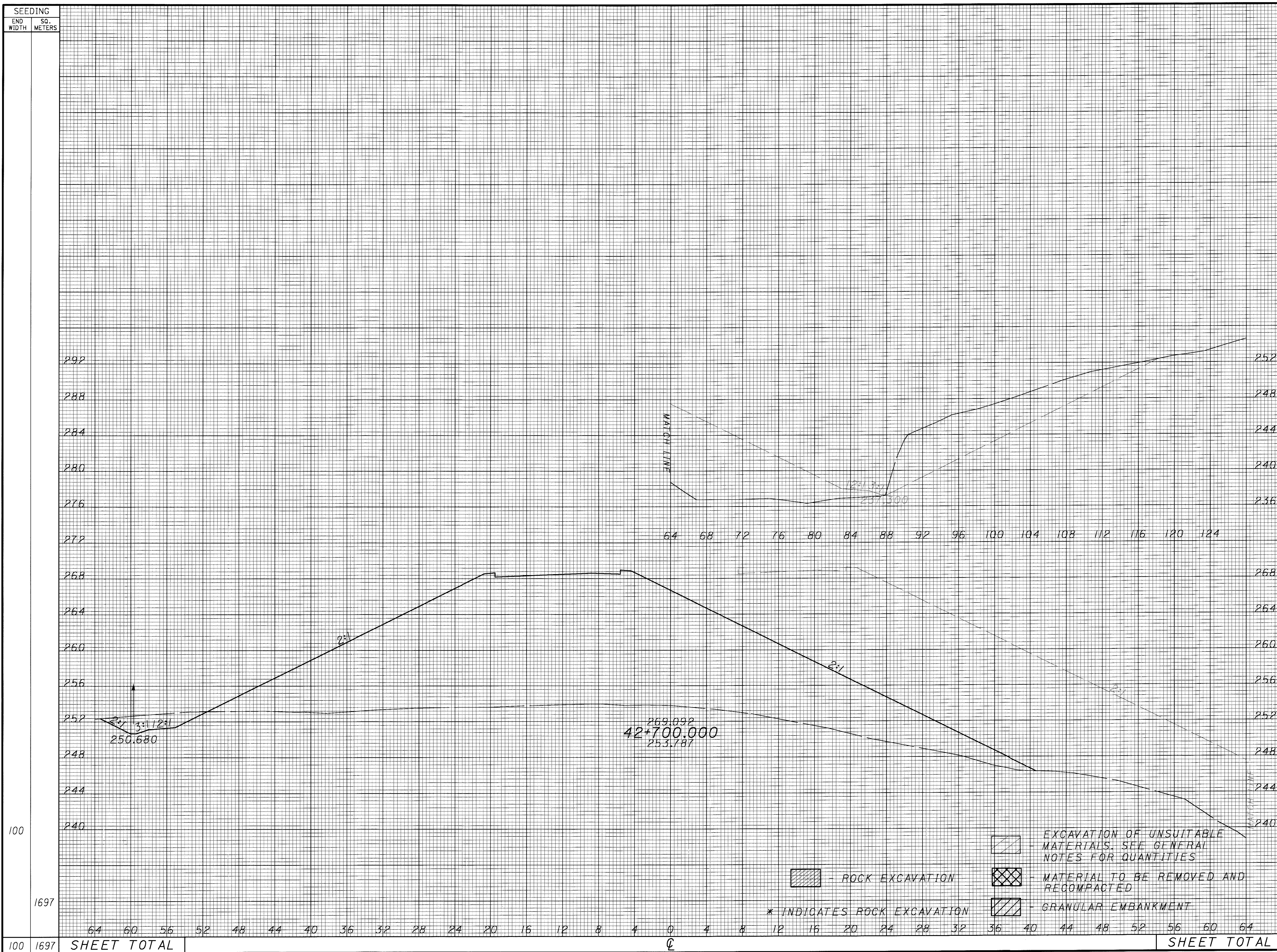
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SEEDING	
END WIDTH	SO. METERS
100	1697
SHEET TOTAL	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
15	784	173	12046
ROCK TOTAL			
		173	12046

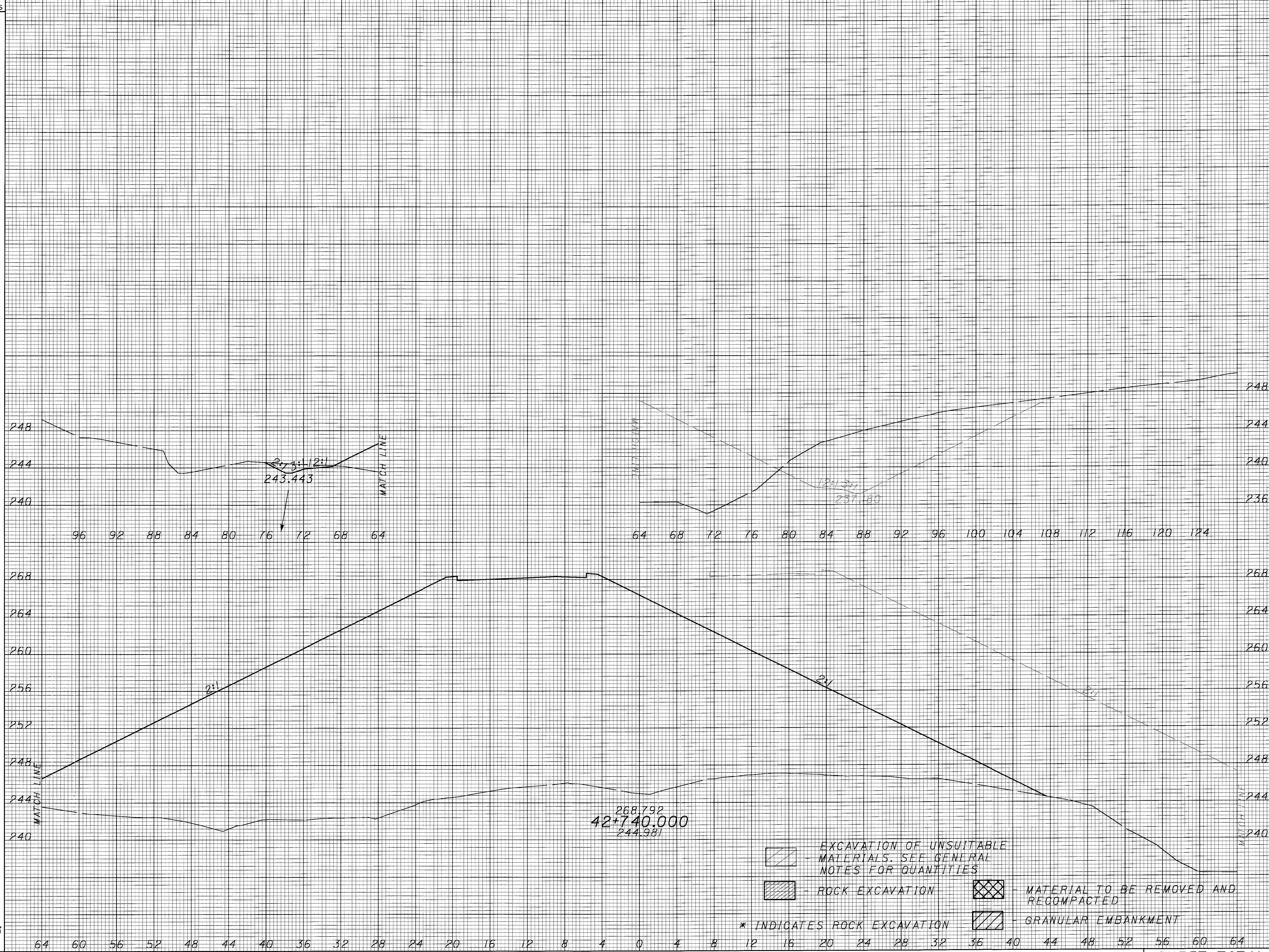
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CROSS SECTIONS - US 33
STA. 42+700.000
ATH-33-40.981
 289
 949



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SEEDING
 END SQ.
 WIDTH METERS

END AREA VOLUME
 CUT FILL CUT FILL
 CALCULATED 890
 CHECKED TDW



273:12:1
 243.443

12:1 3:1
 237.60

268.792
 42+740.000
 244.981

- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES
- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION

4	1520		
		73	28119
ROCK TOTAL			
SHEET TOTAL		73	28119

CROSS SECTIONS - US 33
 STA. 42+740.000

ATH-33-40.981

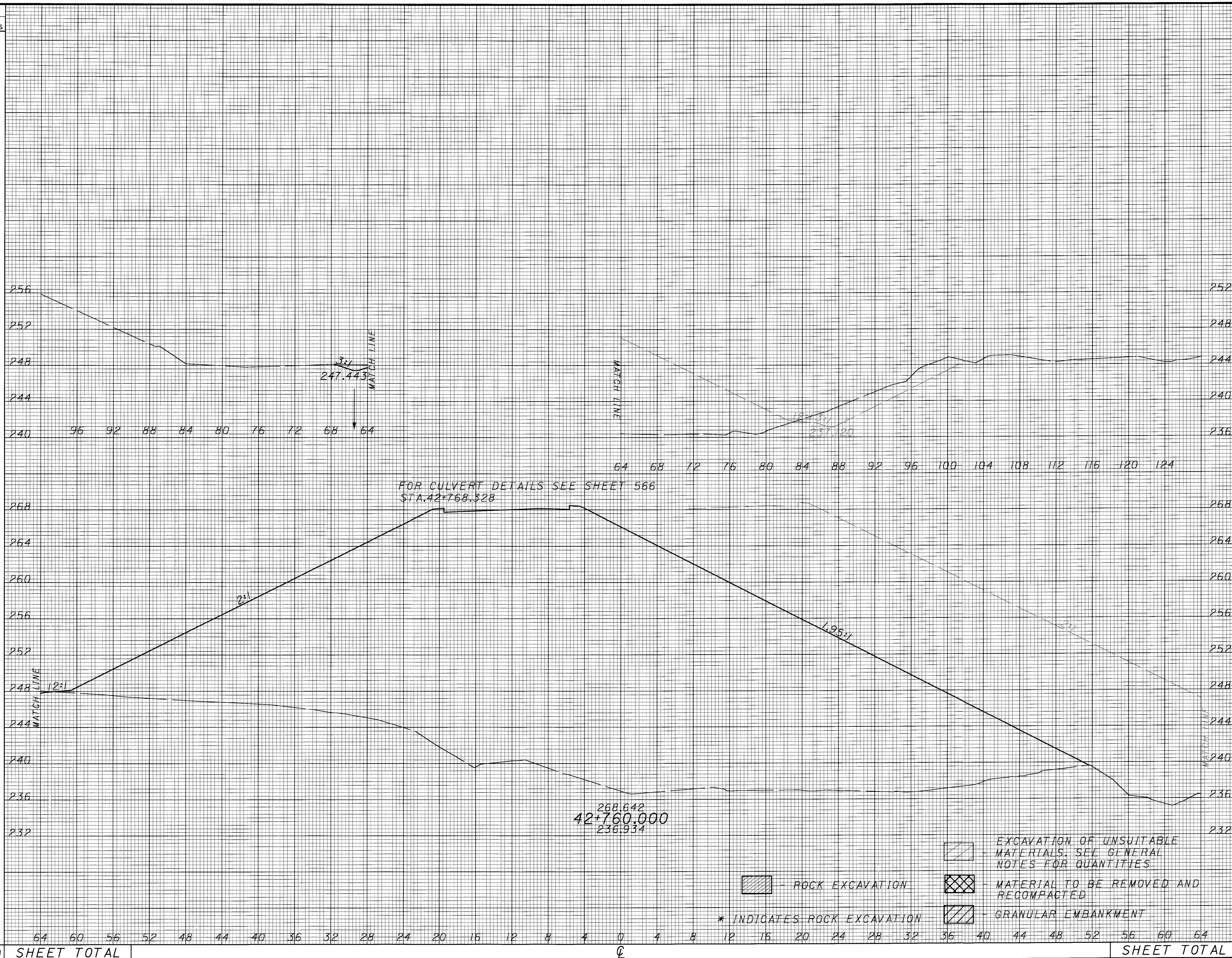
291
 949

118 2373 SHEET TOTAL

SHEET TOTAL

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SEEDING	
END WIDTH	SO. METERS
54	1720
54	1720



END AREA	VOLUME	CALCULATED	CHECKED	TOW
2	1862			
		52	33827	
ROCK TOTAL				
SHEET TOTAL		52	33827	

CROSS SECTIONS - US 33
STA. 42+760.000

ATH-33-40.981

292
949

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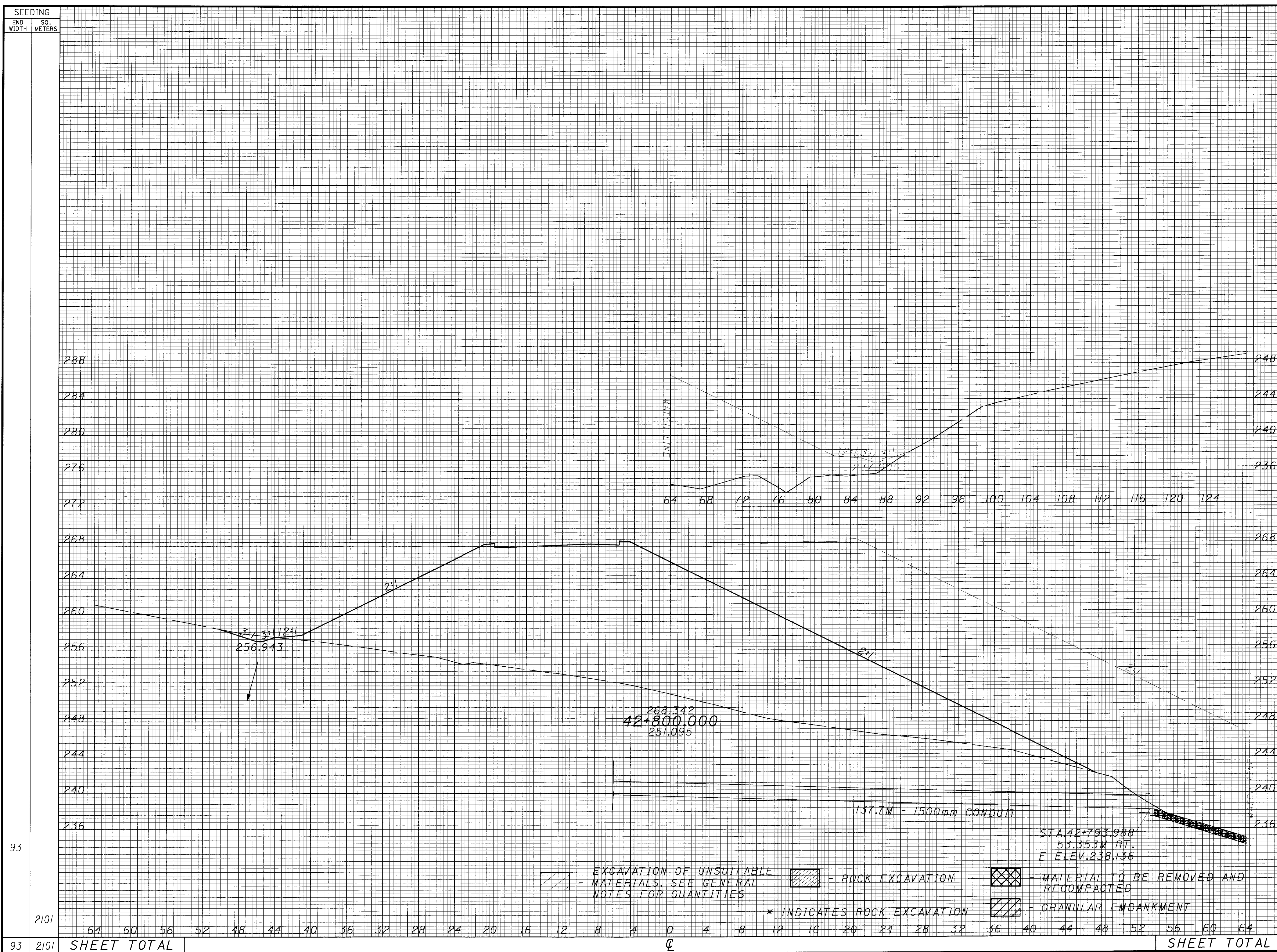
SEEDING	
END WIDTH	SO. METERS
93	2101
93	2101

END AREA		VOLUME		CALCULATED BY	CHECKED BY	TDW
CUT	FILL	CUT	FILL			
2	794	37	20655			
ROCK TOTAL						
37	20655					

**CROSS SECTIONS - US 33
 STA. 42+800.000**

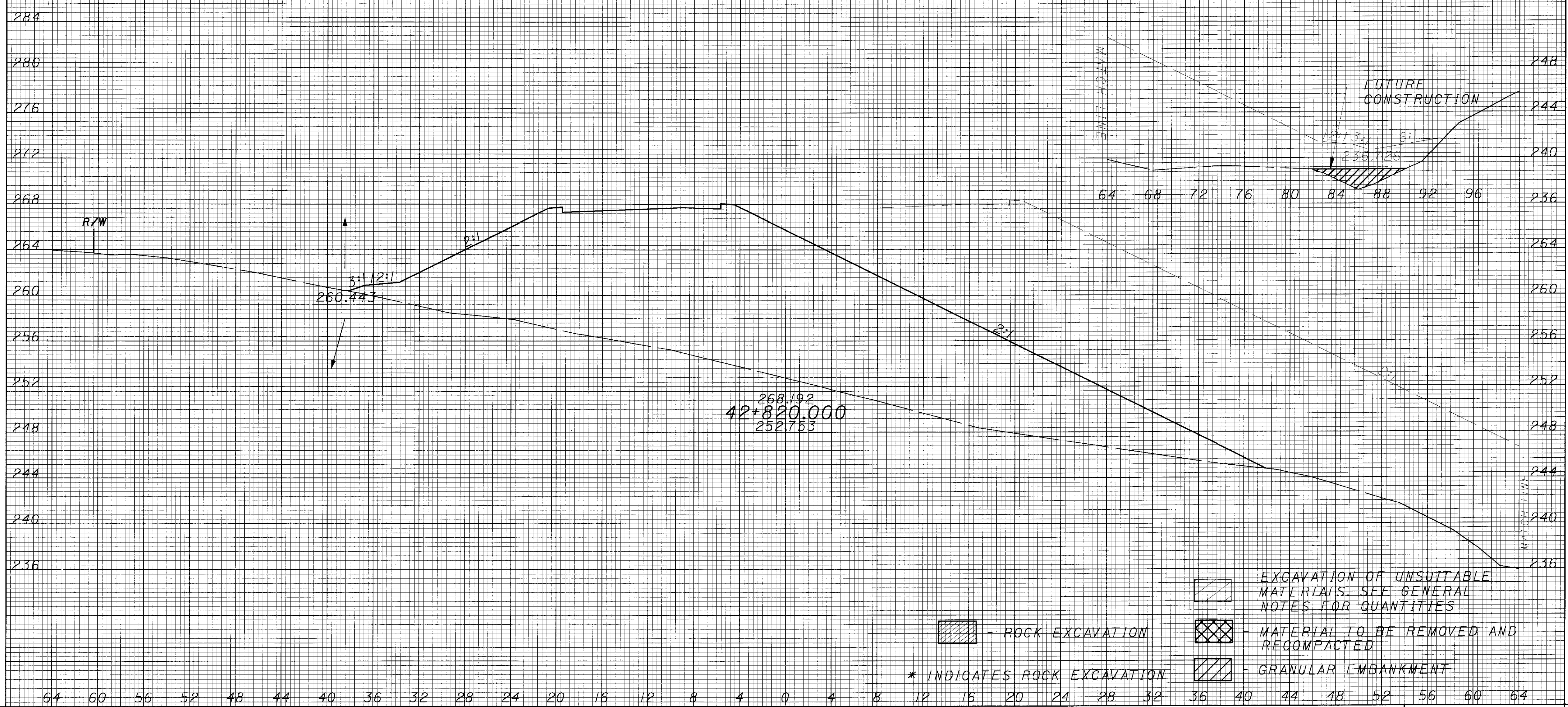
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294
 949



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SEEDING	
END WIDTH	Sq. METERS
74	1667
SHEET TOTAL	



- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION
- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

END AREA	VOLUME	CALCULATED	CHECKED				
				CUT	FILL	CUT	FILL
0	638						
21	14316						
ROCK TOTAL							
21	14316						

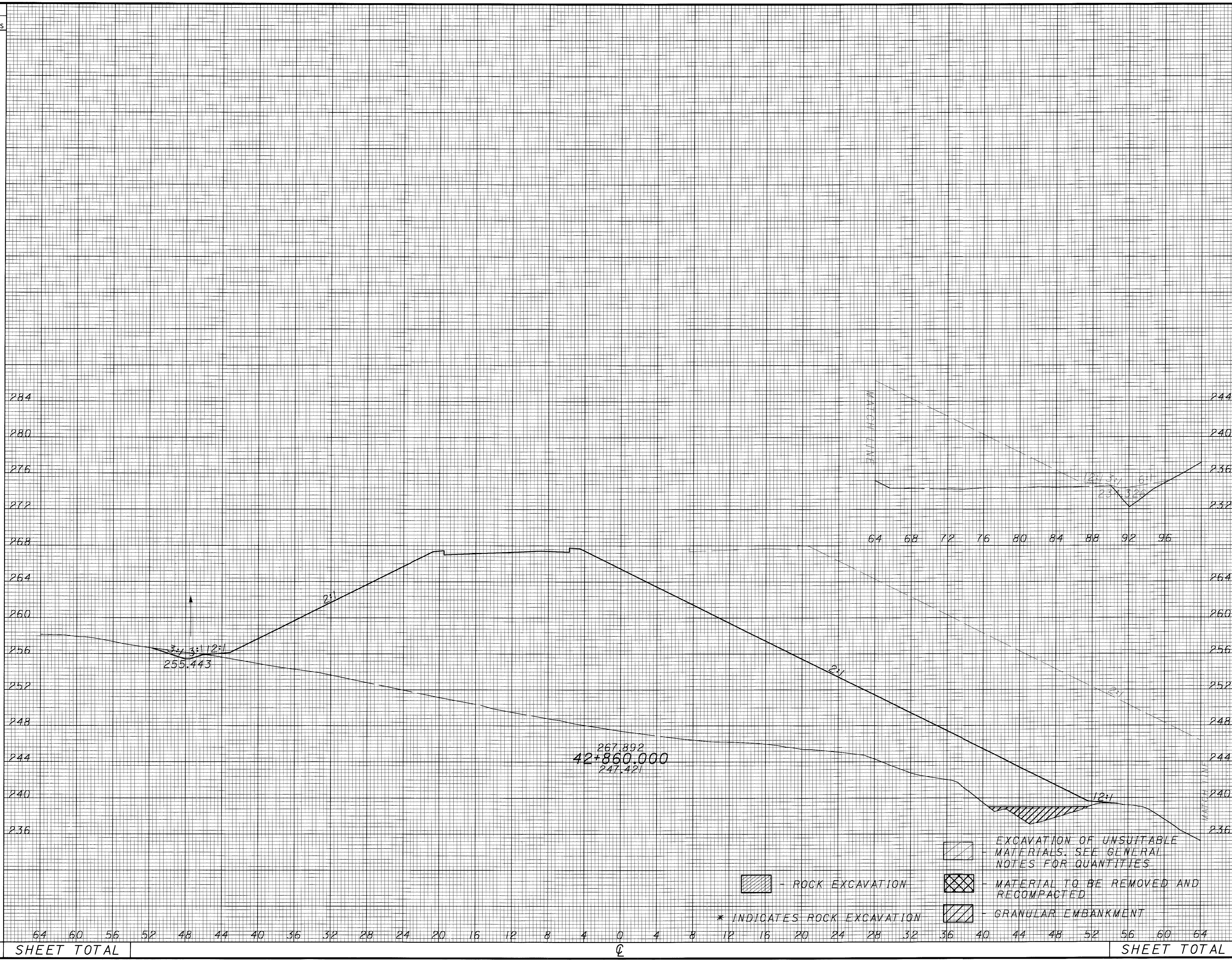
CROSS SECTIONS - US 33
STA. 42+820.000

ATH-33-40.981

295
 949

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SEEDING	
END WIDTH	SO. METERS
102	1817
SHEET TOTAL	



END AREA		VOLUME		CALCULATED BBD	CHECKED TDW
CUT	FILL	CUT	FILL		
2	1030				
		28	17253		
ROCK TOTAL					
		28	17253		

CROSS SECTIONS - US 33
STA. 42+860.000

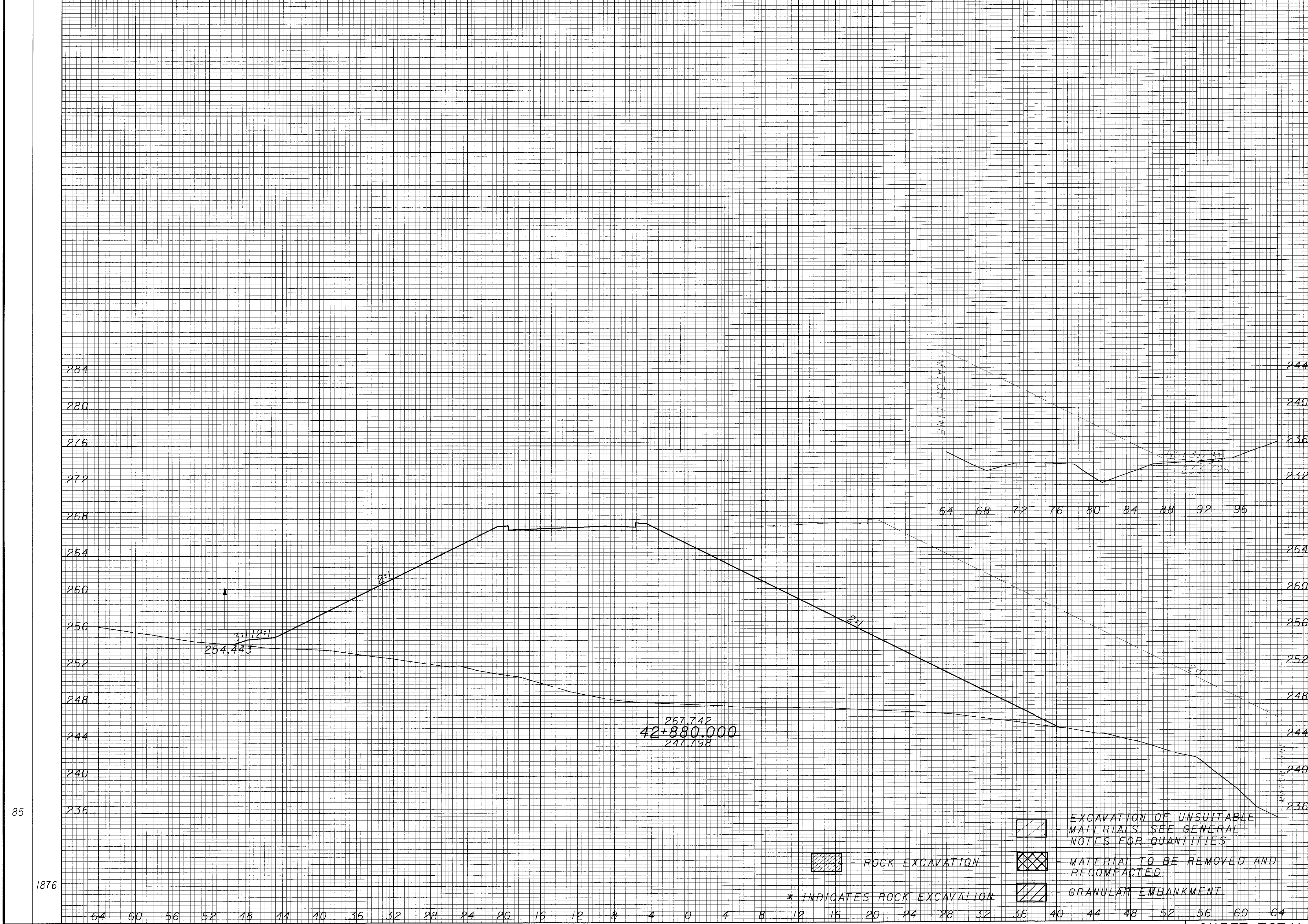
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297
949

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SEEDING
 END WIDTH SQ. METERS

END AREA VOLUME
 CUT FILL CUT FILL
 CALCULATED
 CHECKED
 BBO TDW



85	1876	SHEET TOTAL	64	60	56	52	48	44	40	36	32	28	24	20	16	12	8	4	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	SHEET TOTAL
----	------	-------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-------------

0	912	22	19414
ROCK TOTAL		22	19414

- ROCK EXCAVATION
- MATERIAL TO BE REMOVED AND RECOMPACTED
- GRANULAR EMBANKMENT
- * INDICATES ROCK EXCAVATION
- EXCAVATION OF UNSUITABLE MATERIALS. SEE GENERAL NOTES FOR QUANTITIES

CROSS SECTIONS - US 33
 STA. 42+880.000

ATH-33-40.981

298
 949

