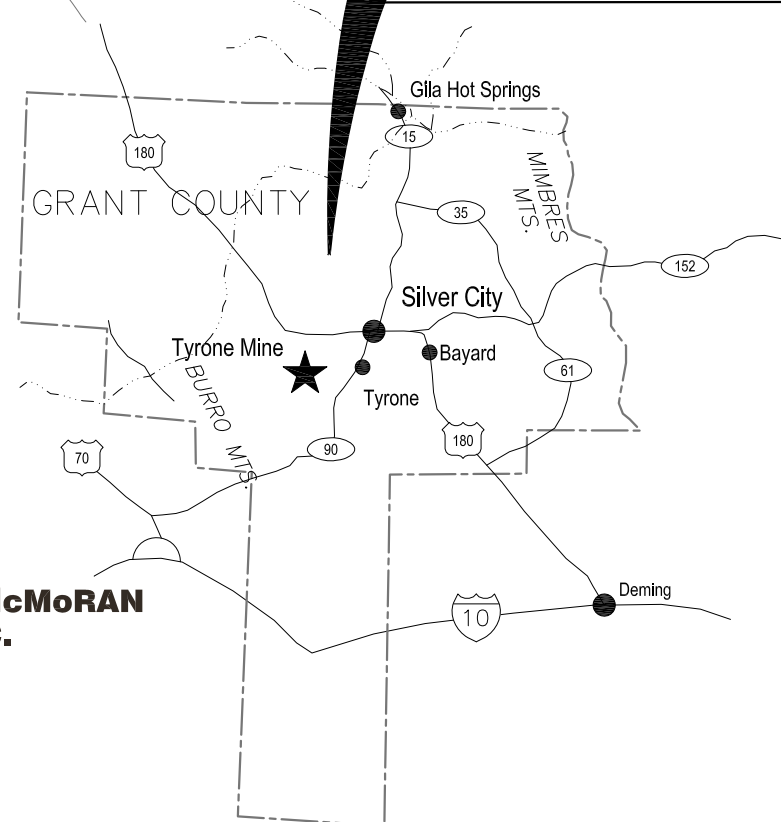
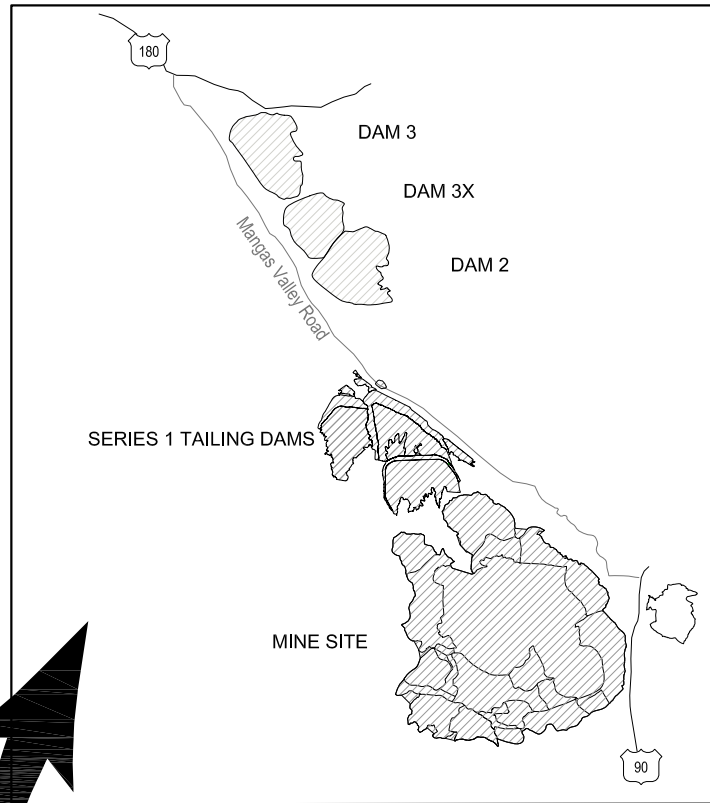


# APPENDIX A TYRONE MINE SITE CLOSURE CLOSEOUT PLAN

JUNE 2013  
Rev. 1- Issued for Bond Calculation

## LIST OF DRAWINGS

DRAWING NO.	DRAWING TITLE
1.	COVER SHEET
2.	MINE SITE - OVERALL
3.	OVERALL GRADING SITE PLAN
4.	Nos. 1A AND 1B LEACH STOCKPILES AND 1C WASTE - 2014 CONFIGURATION
5.	Nos. 1A AND 1B LEACH STOCKPILES AND 1C WASTE - GRADING AND DRAINAGE PLAN
6.	Nos. 1A AND 1B LEACH STOCKPILES AND 1C WASTE - CUT/FILL ISOPACH MAP
7.	Nos. 1A AND 1B LEACH STOCKPILES AND 1C WASTE - CROSS SECTIONS
8.	Nos. 2A, 2B LEACH AND 2B WASTE STOCKPILES - 2014 CONFIGURATION
9.	Nos. 2A, 2B LEACH AND 2B WASTE STOCKPILES - GRADING AND DRAINAGE PLAN
10.	Nos. 2A, 2B LEACH AND 2B WASTE STOCKPILES - CUT/FILL ISOPACH MAP
11.	Nos. 2A, 2B LEACH AND 2B WASTE STOCKPILES - CROSS SECTIONS
12.	Nos. 2C, 4A, 4B, 4C, 7B LEACH STOCKPILES, SOUTH RIM PIT AND SAN SALVADOR PITS - 2014 CONFIGURATION
13.	Nos. 2C, 4A, 4B, 4C, 7B LEACH STOCKPILES, SOUTH RIM AND SAN SALVADOR PITS - GRADING AND DRAINAGE PLAN
14.	Nos. 2C, 4A, 4B, 4C, 7B LEACH STOCKPILES, SOUTH RIM AND SAN SALVADOR PITS - CUT/FILL ISOPACH MAP
15.	Nos. 2C, 4A, 4B, 4C, 7B LEACH STOCKPILES, SOUTH RIM AND SAN SALVADOR PITS - CROSS SECTIONS
16.	No. 3A LEACH AND 3B WASTE STOCKPILES - 2014 CONFIGURATION
17.	No. 3A LEACH AND 3B WASTE STOCKPILES - GRADING AND DRAINAGE PLAN
18.	No. 3A LEACH AND 3B WASTE STOCKPILES - CUT/FILL ISOPACH MAP
19.	No. 3A LEACH AND 3B WASTE STOCKPILES - CROSS SECTIONS - 1
20.	No. 3A LEACH AND 3B WASTE STOCKPILES - CROSS SECTIONS - 2
21.	No. 5A WASTE STOCKPILE - 2014 CONFIGURATION
22.	No. 5A WASTE STOCKPILE - GRADING AND DRAINAGE PLAN
23.	No. 5A WASTE STOCKPILE - CUT/FILL ISOPACH MAP
24.	No. 5A WASTE STOCKPILE - CROSS SECTIONS
25.	Nos. 6B, 6C, AND SAVANNA IN-PIT LEACH STOCKPILES - 2014 CONFIGURATION
26.	Nos. 6B, 6C, AND SAVANNA IN-PIT LEACH STOCKPILES - GRADING AND DRAINAGE PLAN
27.	Nos. 6B, 6C, AND SAVANNA IN-PIT LEACH STOCKPILES - CUT/FILL ISOPACH MAP
28.	Nos. 6B, 6C, AND SAVANNA IN-PIT LEACH STOCKPILES - CROSS SECTIONS
29.	No. 9A WASTE STOCKPILE - 2014 CONFIGURATION
30.	No. 9A WASTE STOCKPILE - GRADING AND DRAINAGE PLAN
31.	No. 9A WASTE STOCKPILE - CUT/FILL ISOPACH MAP
32.	No. 9A WASTE STOCKPILE - CROSS SECTIONS
33.	DRAINAGE DETAILS
34.	HAUL ROUTE MAP



PREPARED FOR:

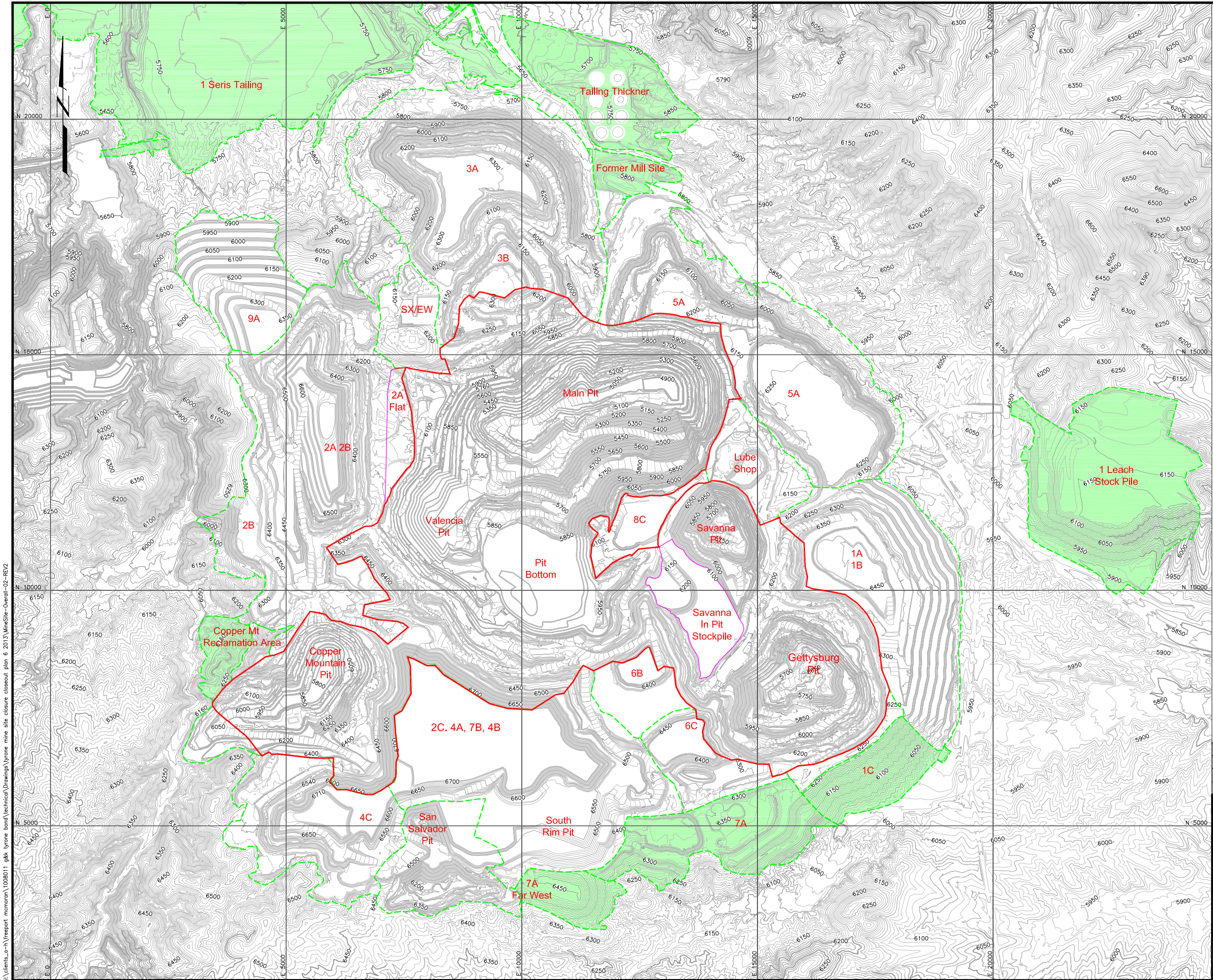


PREPARED BY:








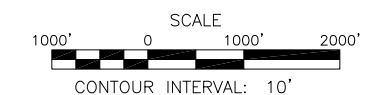
STEAMBOAT SPRINGS, CO  
DENVER, CO  
SILVER CITY, NM

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### LEGEND

-  6250 EXISTING CONTOURS
-  CONDITIONAL WAIVER AREA
-  RECLAMATION AREA
-  INTERIOR FLAT AREA
-  RECLAIMED AREAS (2014)



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	



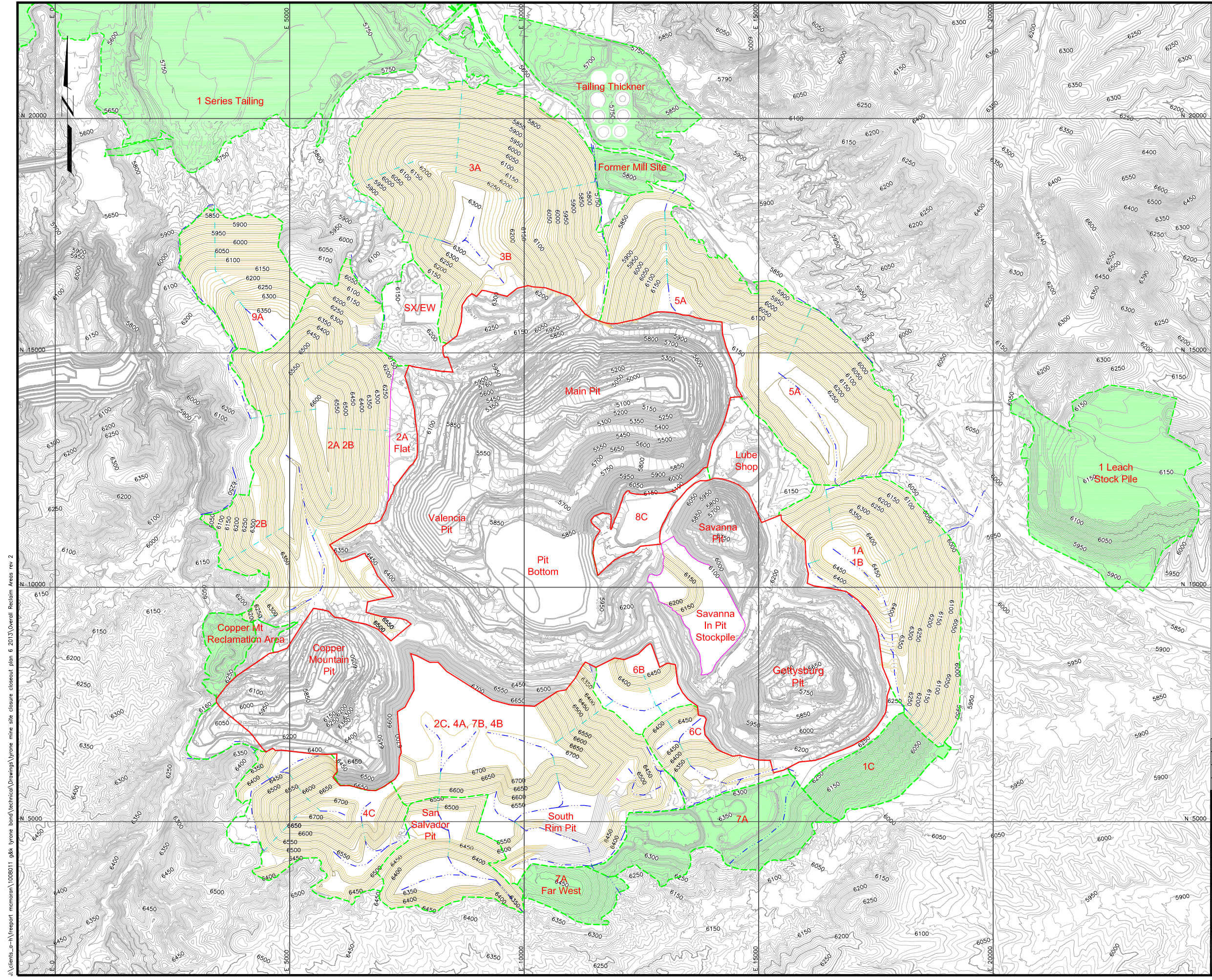
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DRAWING TITLE: MINE SITE - OVERALL



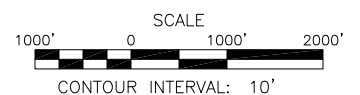
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 DRAWING No. 2

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**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- INTERIOR FLAT AREAS
- CHANNEL
- DOWN CHUTE CHANNEL
- RECLAIMED AREAS (2014)



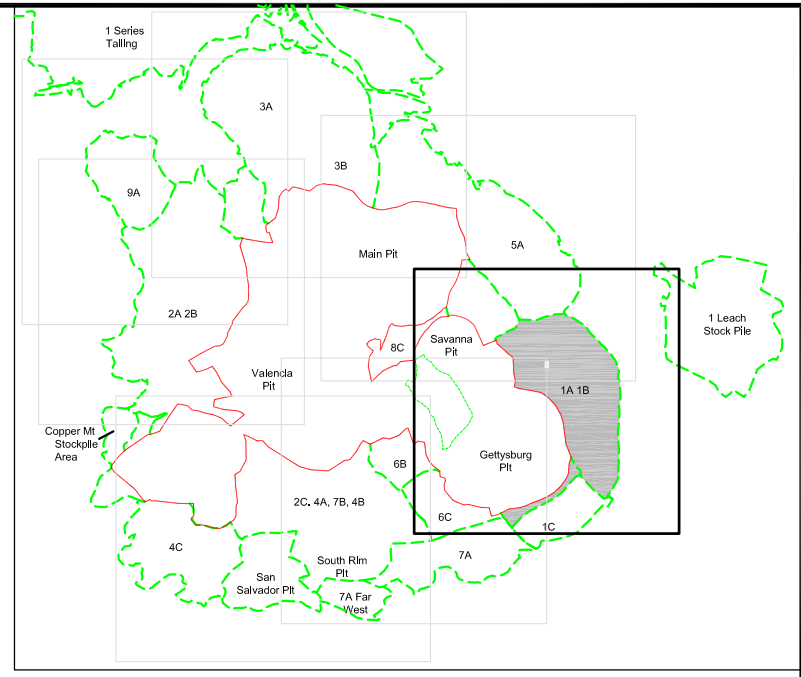
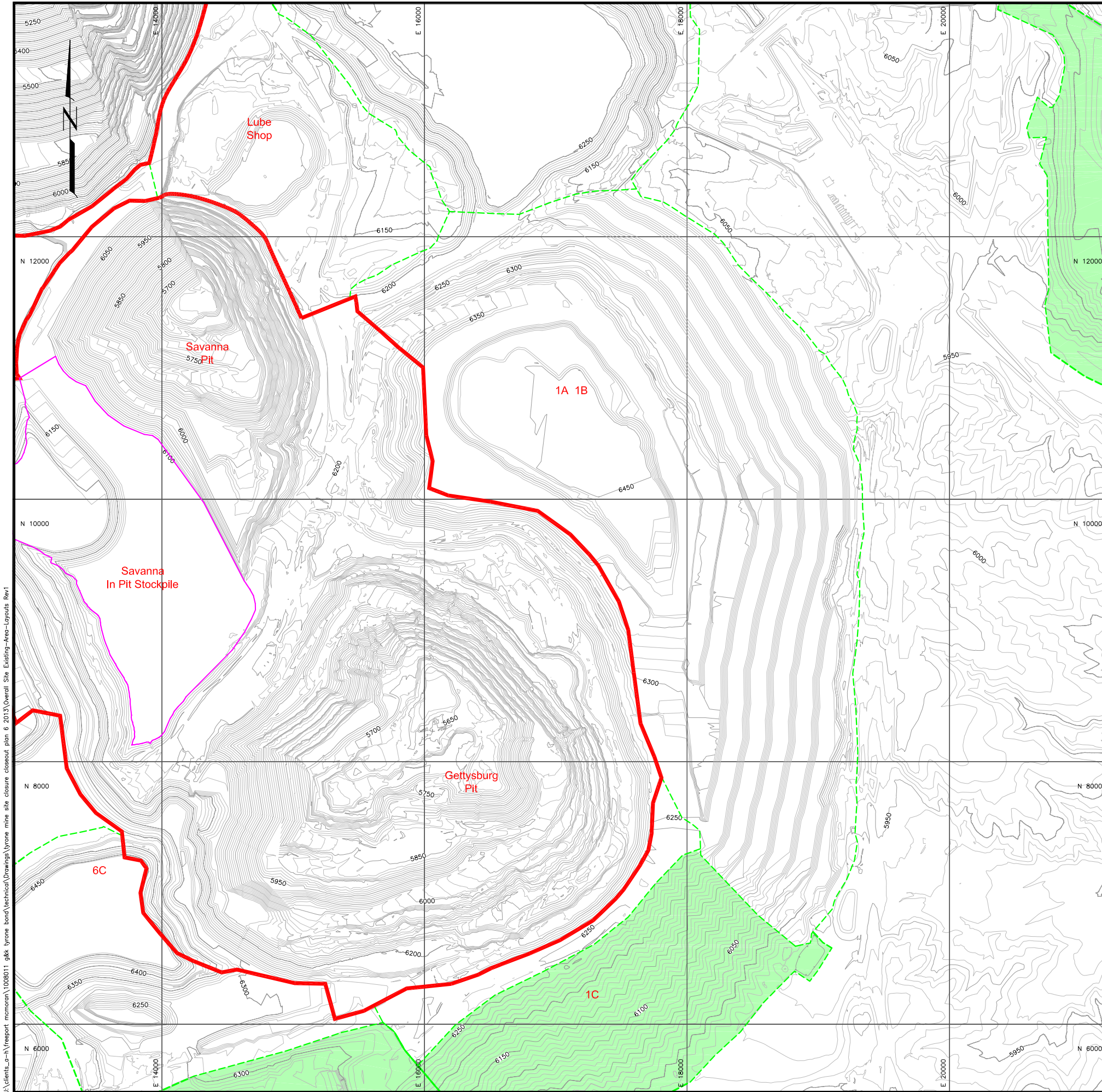
1	ISSUED FOR BOND CALCULATION	6/13	T. IEDICH	T. Leidich	
0	DRAFT	09/12	T. Liedich	J. Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



PROJECT: **TYRONE MINE AREA RECLAMATION**  
 DRAWING TITLE: **OVERALL GRADING SITE PLAN**



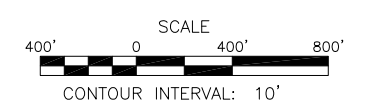
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KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	05/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

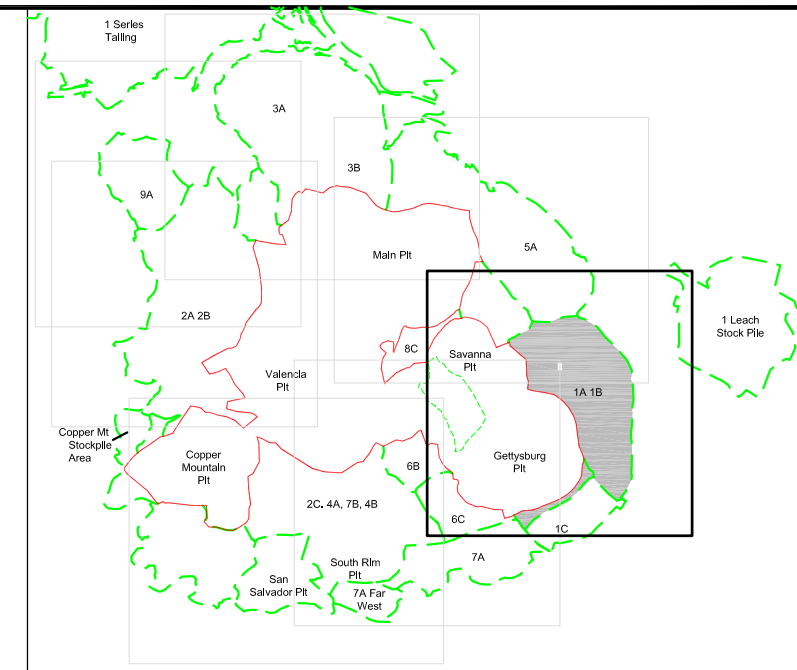
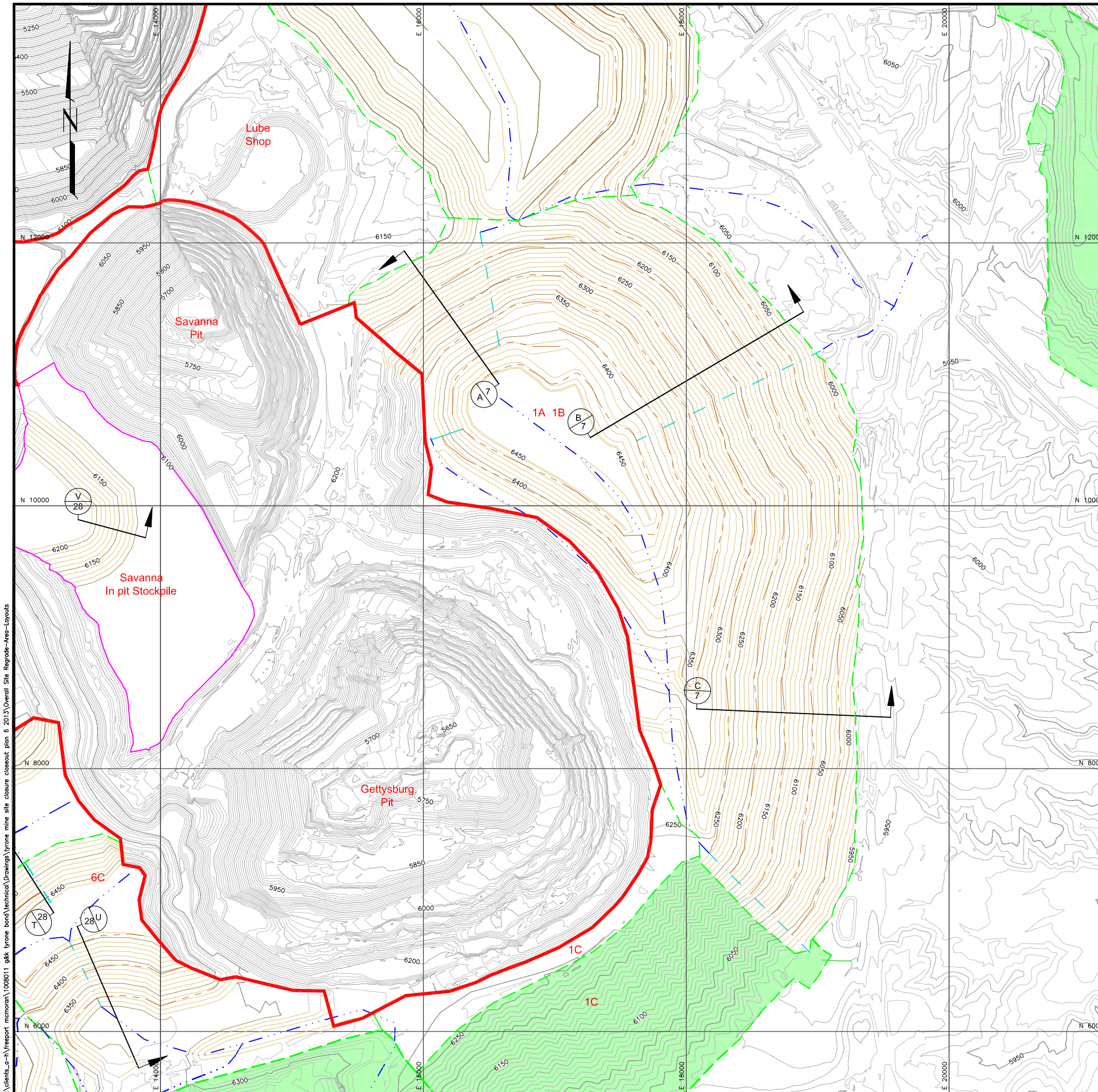


PROJECT: TYRONE MINE AREA RECLAMATION  
 DRAWING TITLE: Nos. 1A AND 1B LEACH STOCKPILES AND 1C WASTE -2014 CONFIGURATION



Sheet 4 Of 34 Sheets  
 SCALE: 1"=400'  
 DRAWING No. 4

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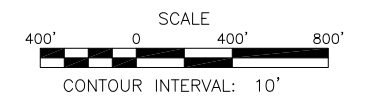


KEY MAP

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CHANNEL
- DOWN CHUTE CHANNEL
- SIDE SLOPE CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)

- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



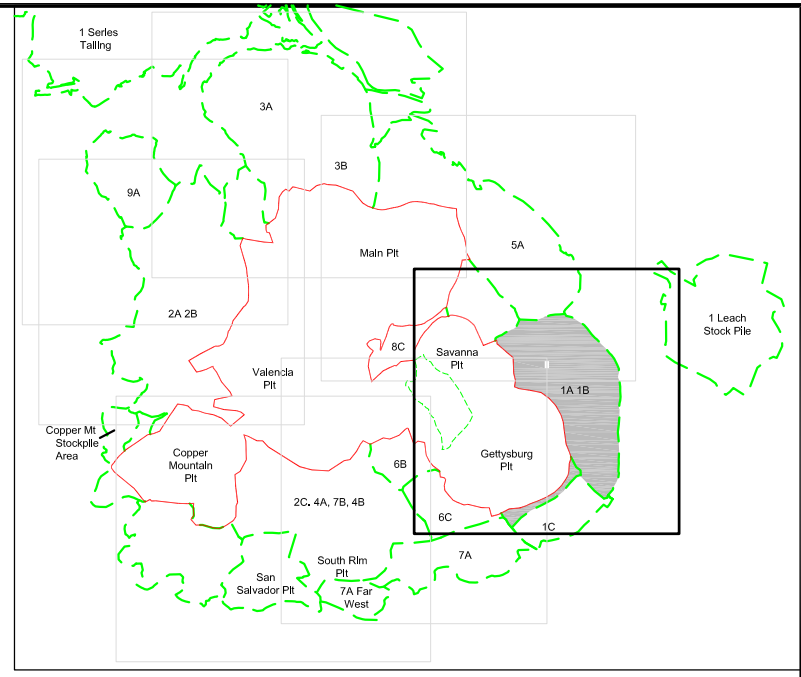
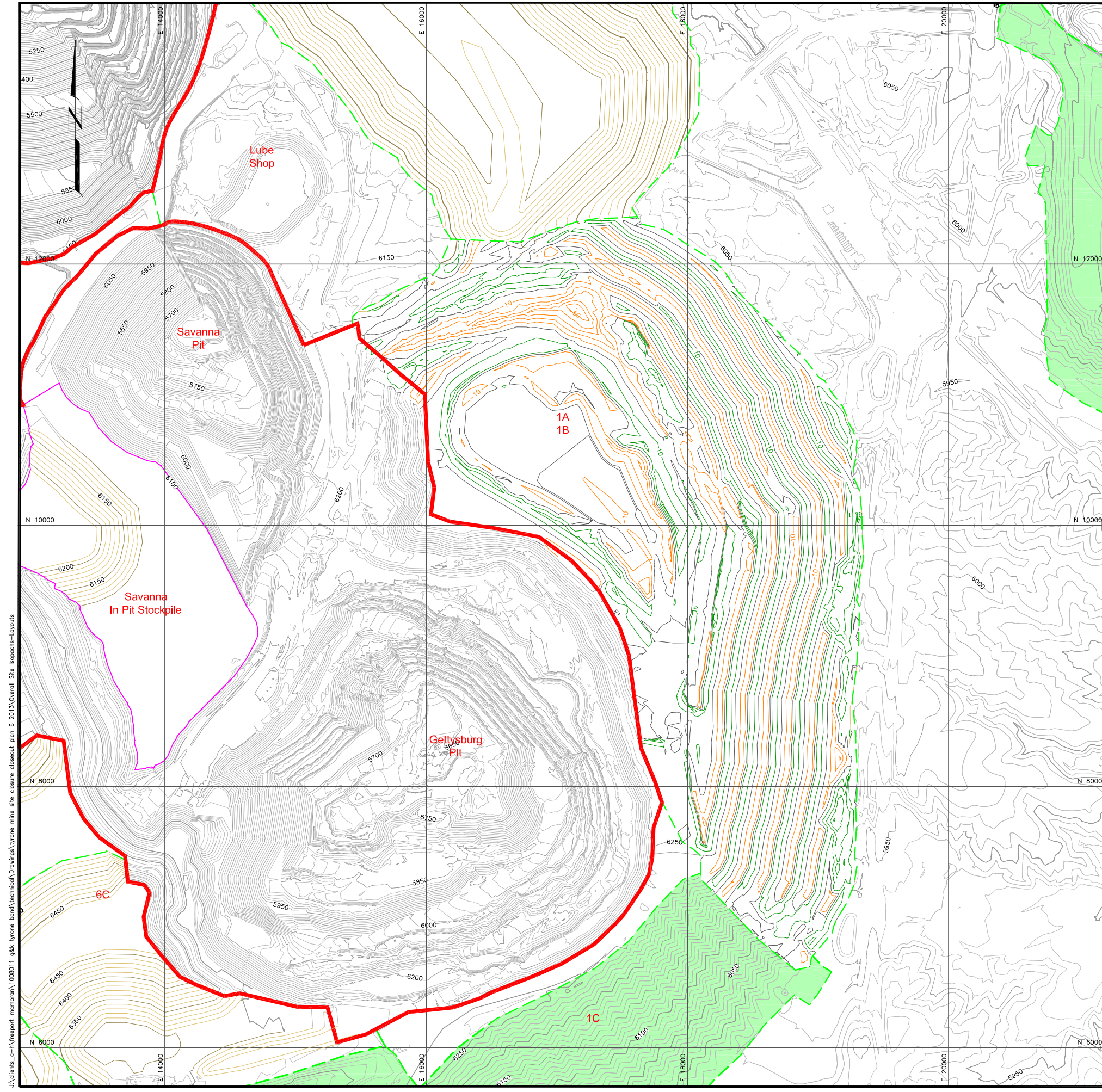
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Sheet 5 Of 34 Sheets  
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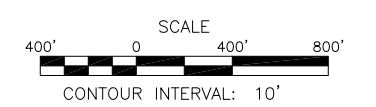
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KEY MAP

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



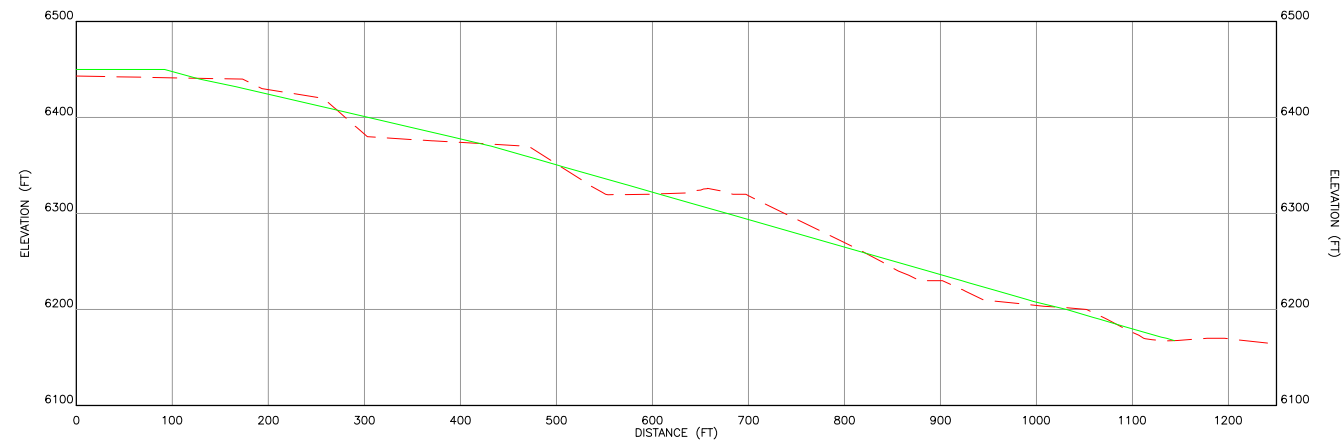
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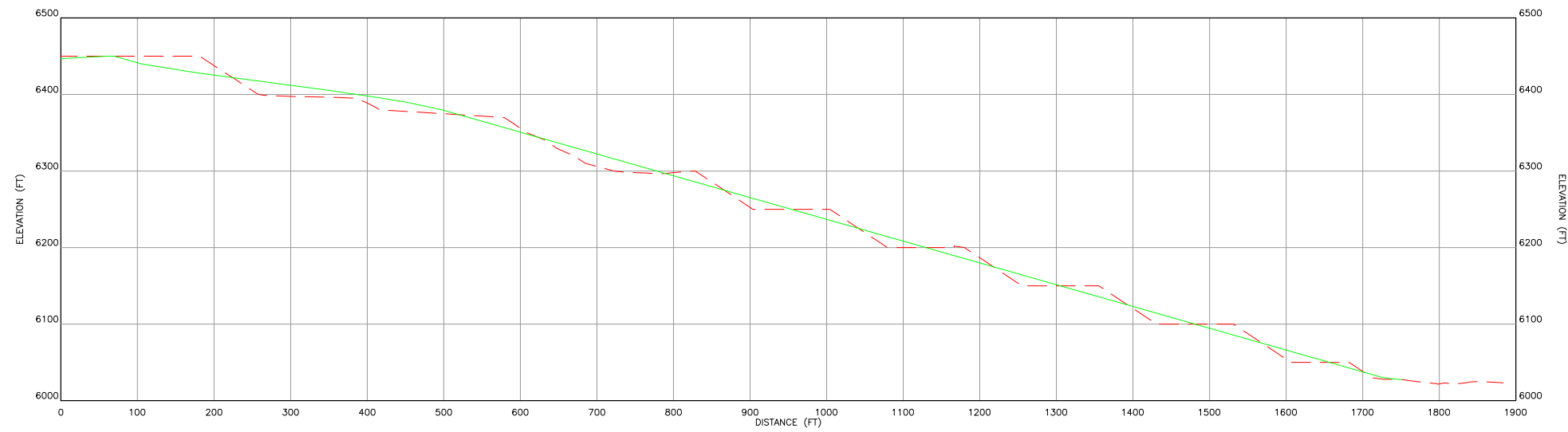
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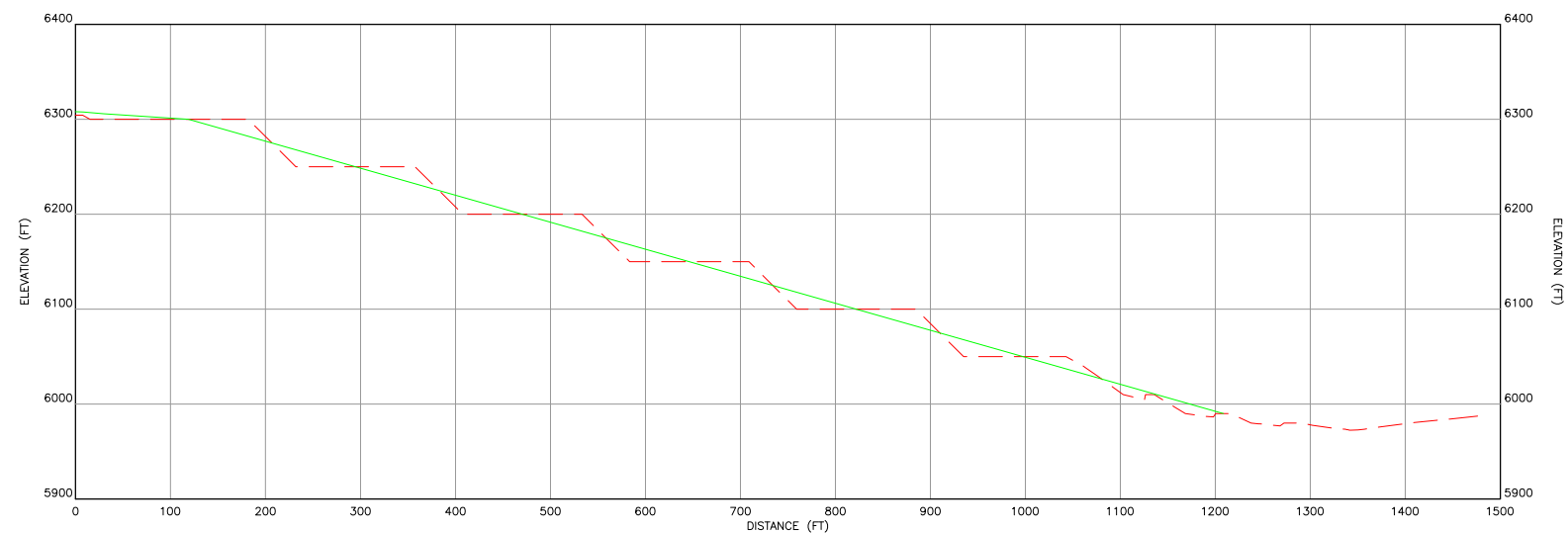
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**A**  
5 AREA 1A-1B - CROSS SECTION A



**B**  
5 AREA 1A-1B - CROSS SECTION B



**C**  
5 AREA 1A-1B - CROSS SECTION C

**LEGEND**

- EXISTING GROUND SURFACE
- REGRADE SURFACE
- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Leidich	
0	DRAFT	09/12	T.Liedich	J.Bever	



PROJECT: TYRONE MINE AREA RECLAMATION

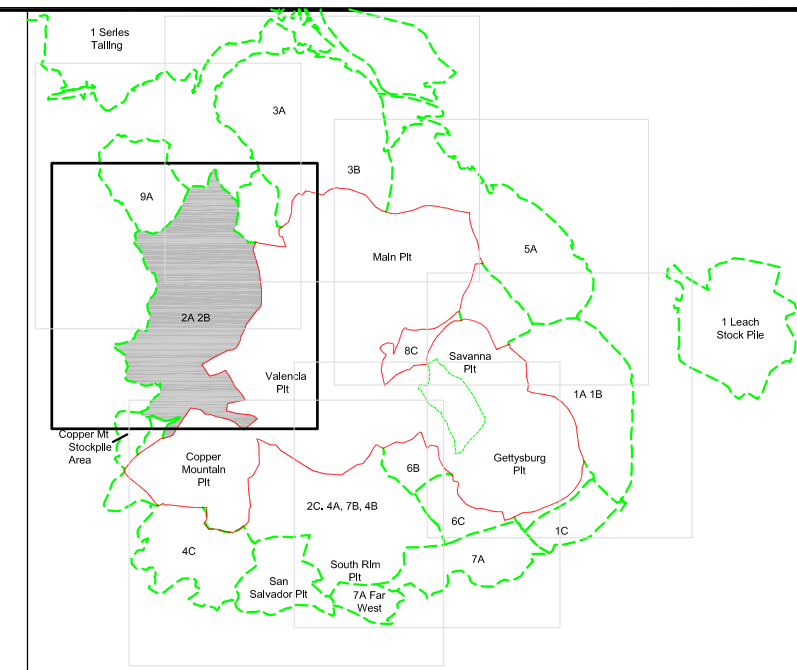
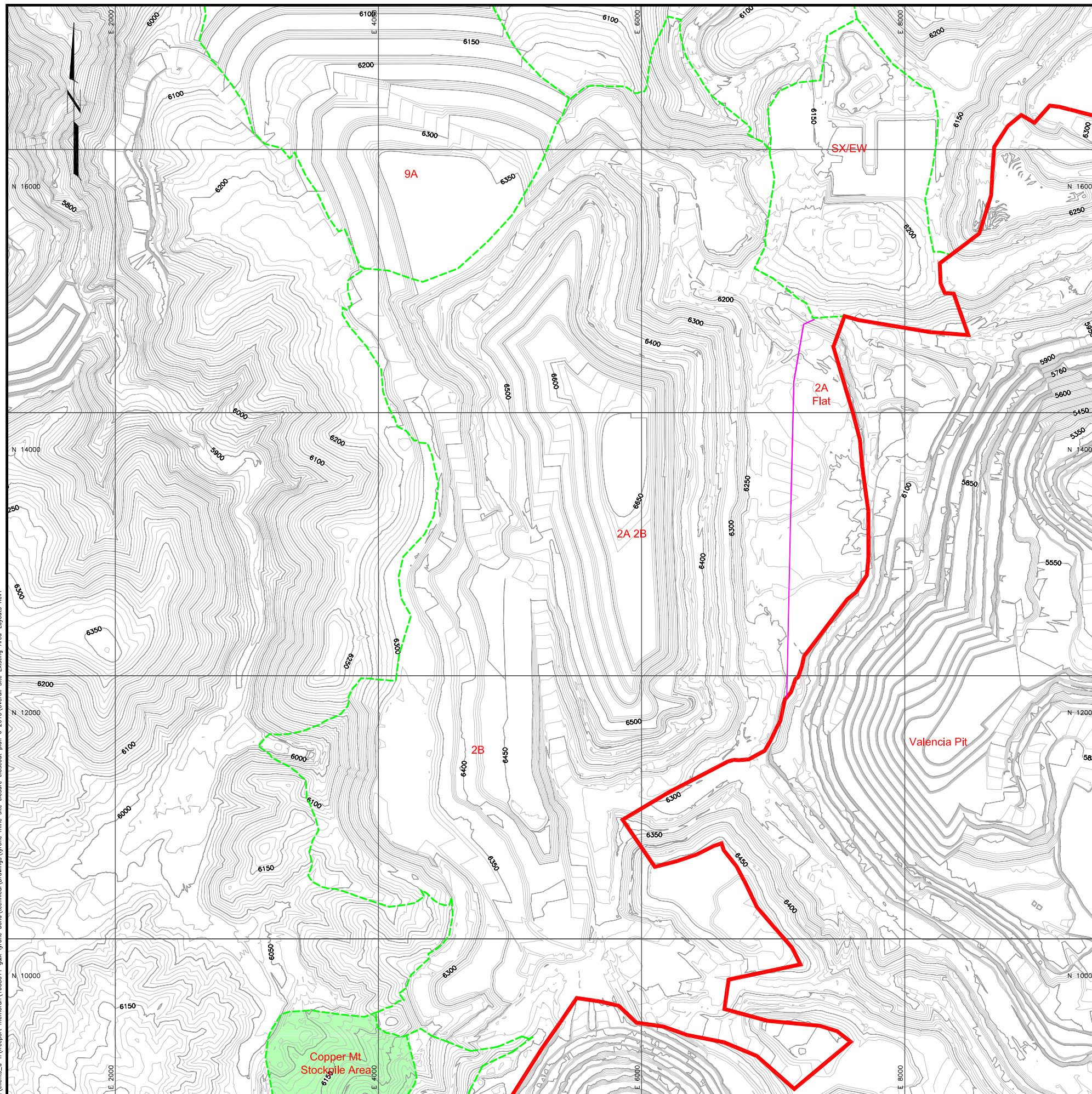
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Nos. 1A, 1B LEACH STOCKPILES AND  
1C WASTE - CROSS SECTIONS



Sheet 7 Of 34 Sheets  
SCALE: DRAWING No.  
1"=100' 7

Note: The regrade surface shows the overall slope and does not show the terrace benches that will be constructed on inter-bench outslope angles of 3H:1V at slope lengths no greater than 200'. For the typical final slope configuration refer to Drawing No. 33

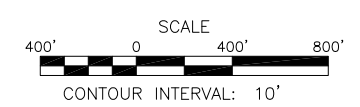
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KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



PROJECT: TYRONE MINE AREA RECLAMATION

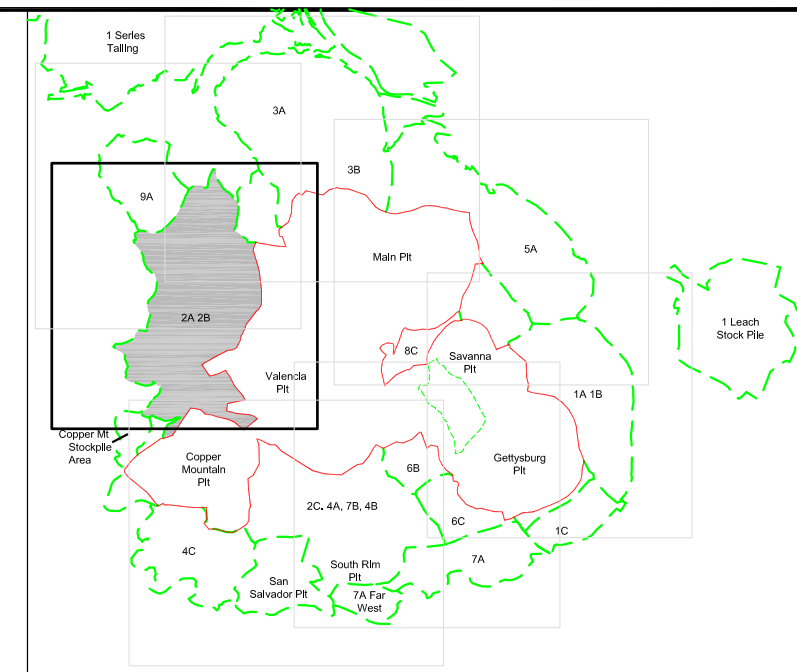
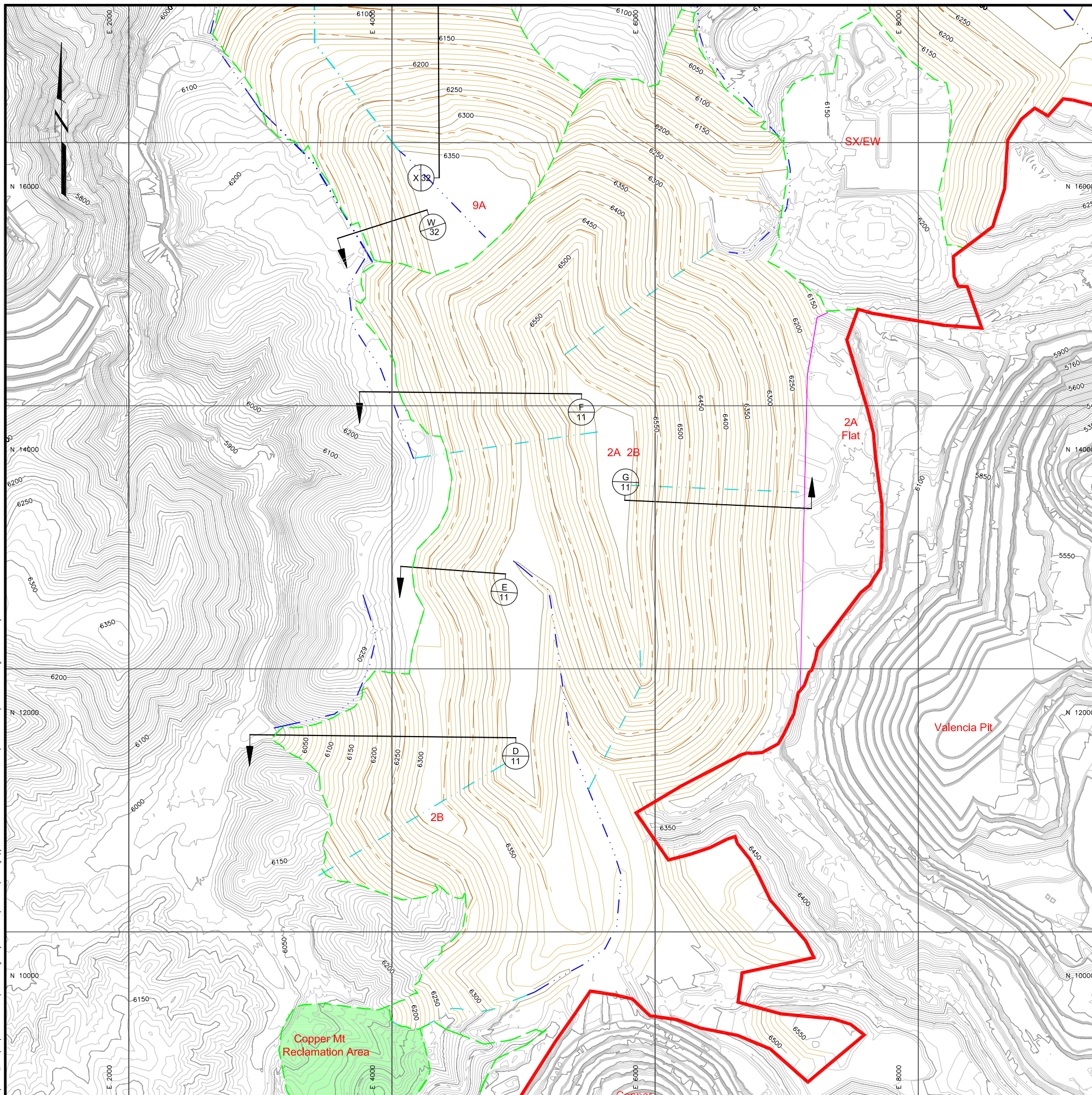
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Sheet 8 Of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 8



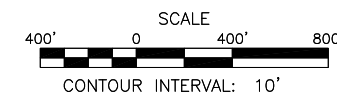
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KEY MAP

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CHANNEL
- DOWN CHUTE CHANNEL
- SIDE SLOPE CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)
- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

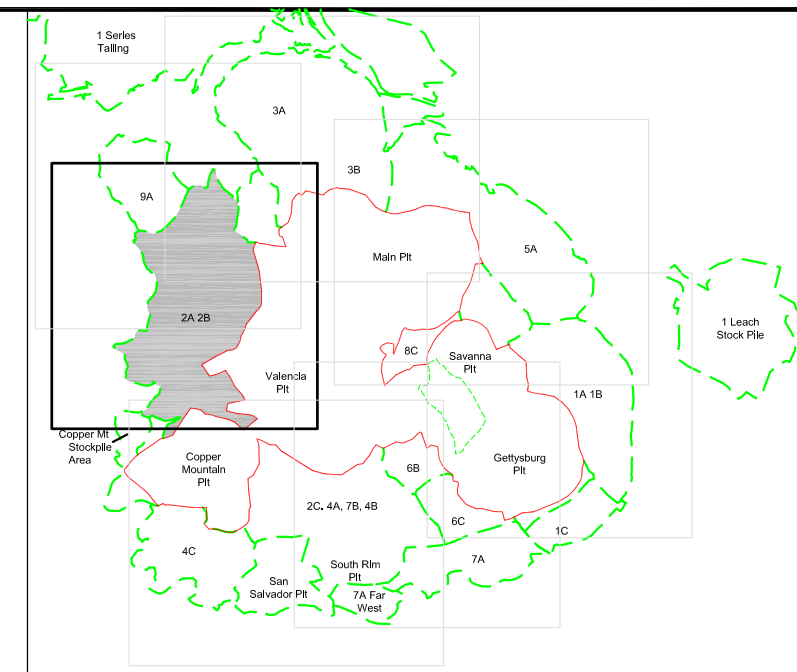
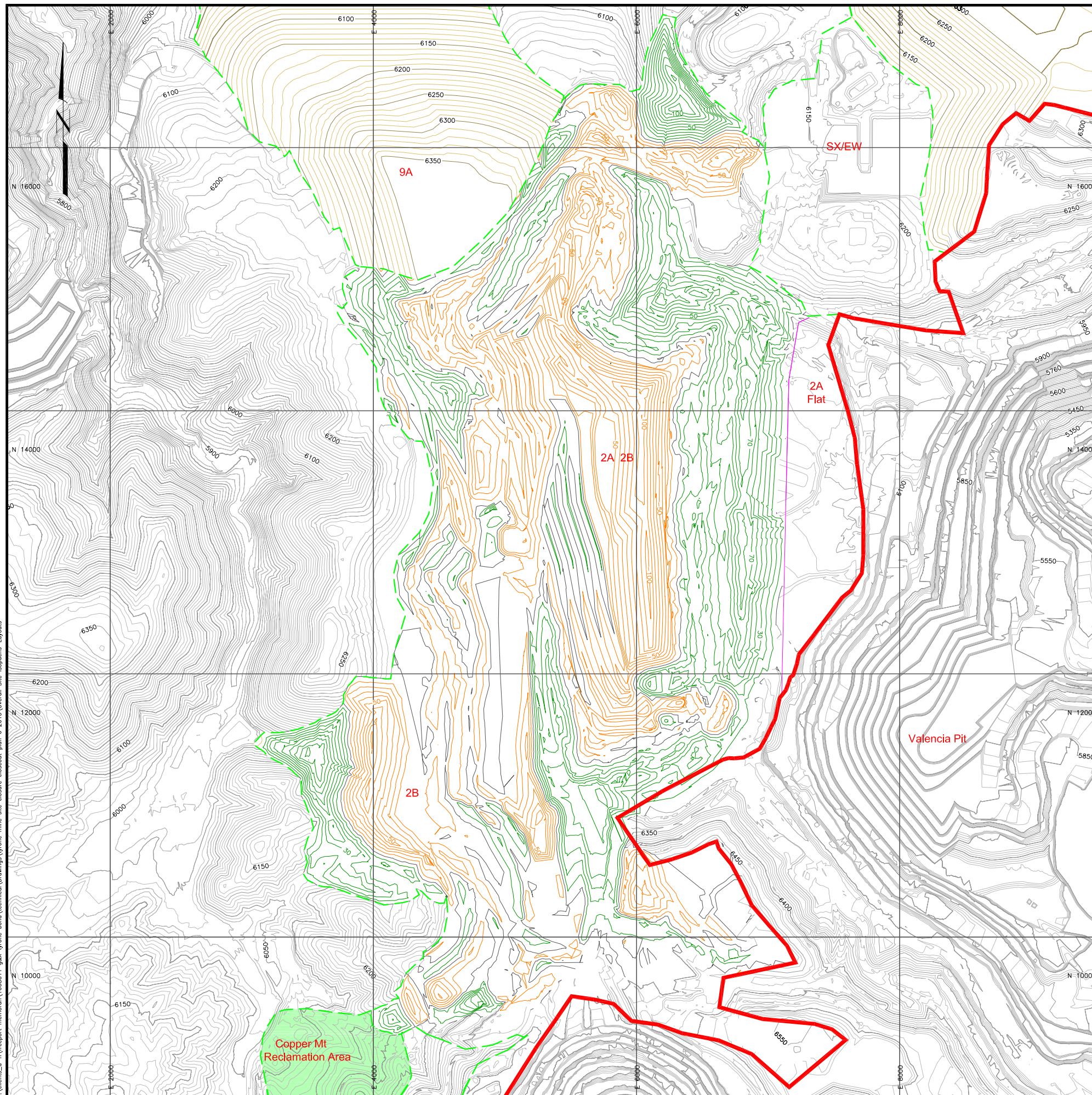


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 DRAWING TITLE: Nos. 2A, 2B LEACH AND 2B WASTE STOCKPILES - GRADING AND DRAINAGE PLAN



Sheet 9 Of 34 Sheets  
 SCALE: 1"=400'  
 DRAWING No. 9

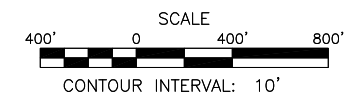
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KEY MAP

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



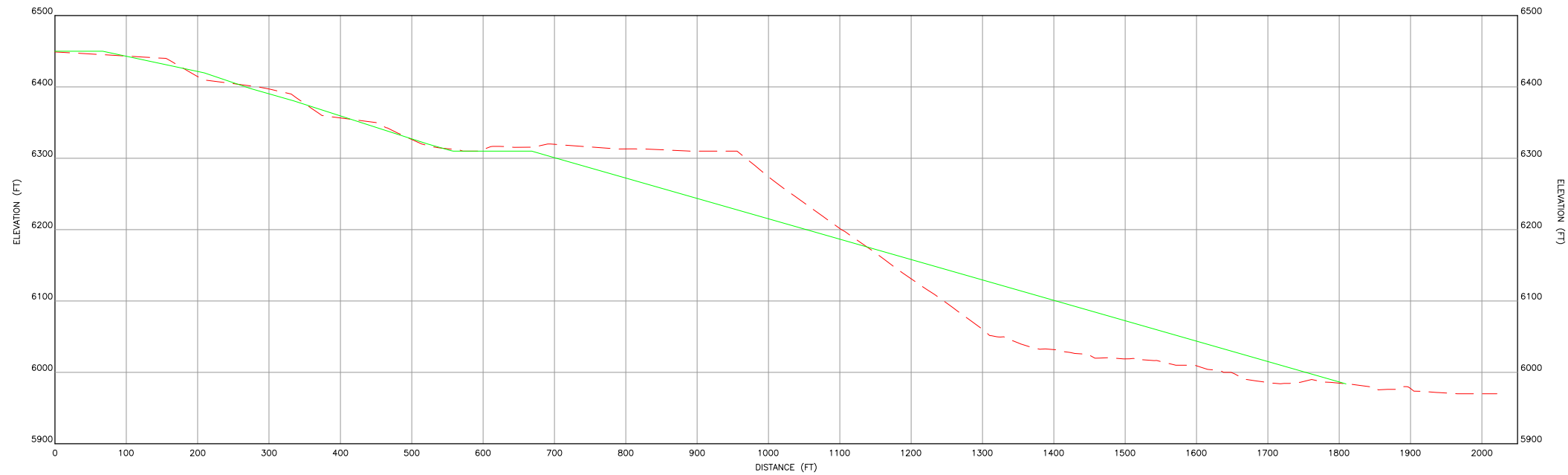
PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: Nos. 2A, 2B LEACH AND 2B WASTE STOCKPILES - CUT/FILL ISOPACH MAP



Sheet 10 Of 34 Sheets  
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DRAWING No. 10

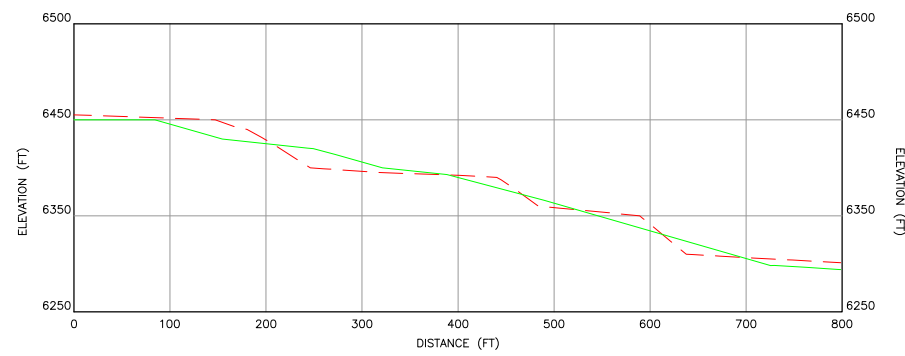
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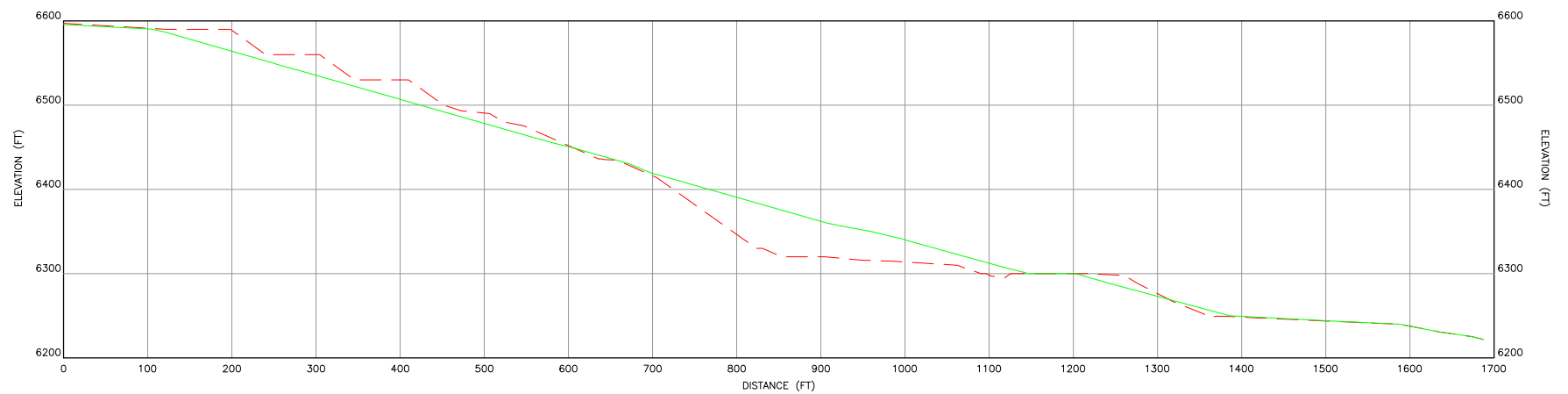
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**LEGEND**

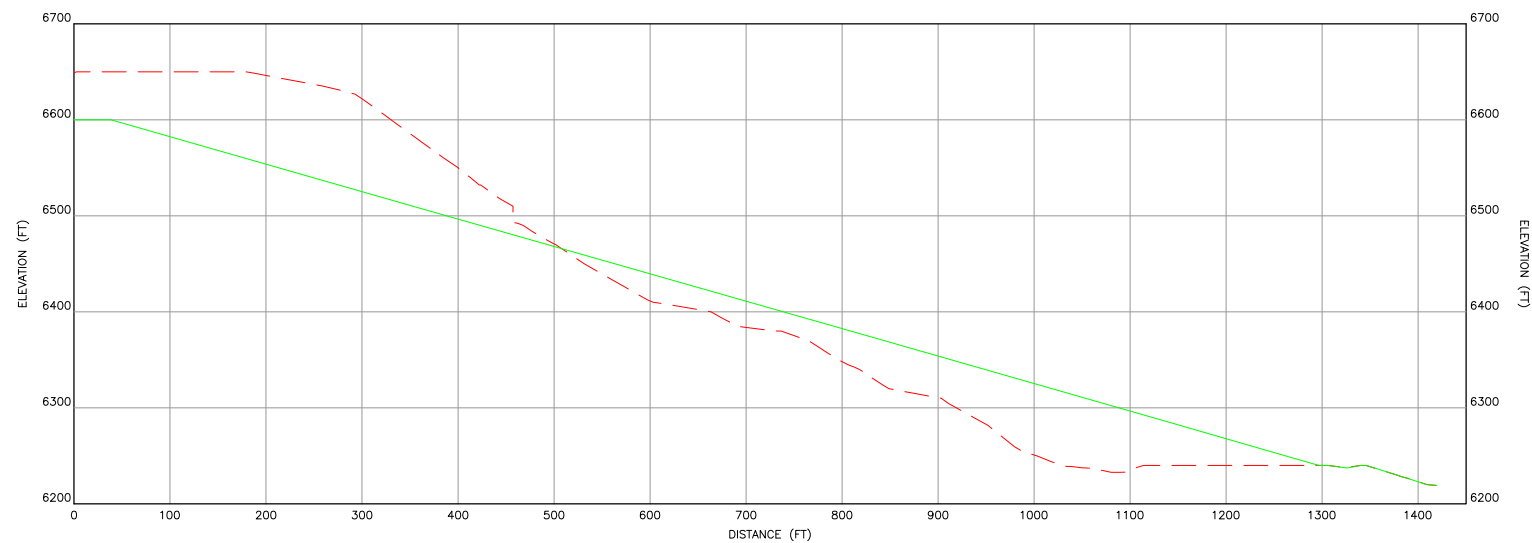
- EXISTING GROUND SURFACE
- REGRADE SURFACE
- A  
8 DETAIL/SECTION NUMBER
- A  
8 DRAWING No. WHERE DETAIL/SECTION IS SHOWN



**E**  
9 AREA 2A-2B - CROSS SECTION E



**F**  
9 AREA 2A-2B - CROSS SECTION F



**G**  
9 AREA 2A-2B - CROSS SECTION G



Note: The regrade surface shows the overall slope and does not show the terrace benches that will be constructed on inter-bench outslope angles of 3H:1V at slope lengths no greater than 200'. For the typical final slope configuration refer to Drawing No. 33

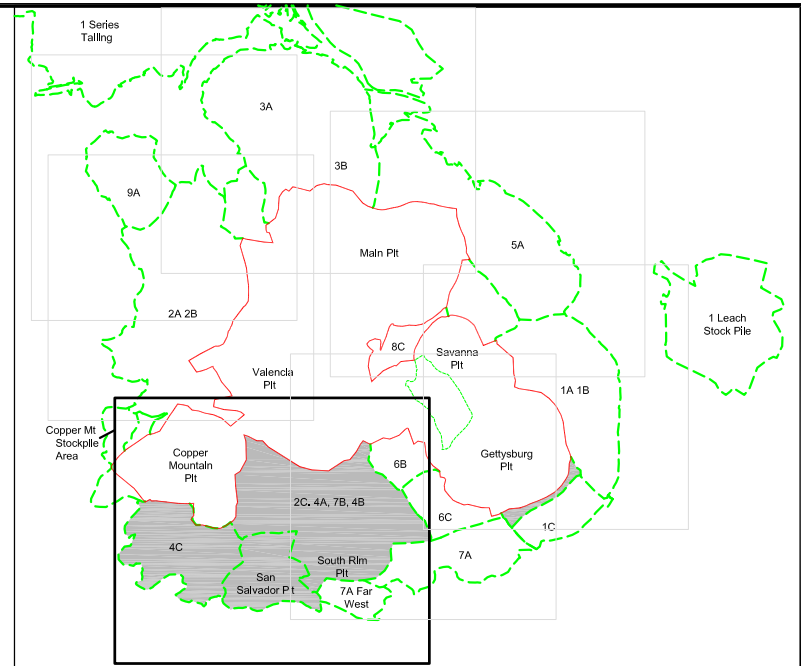
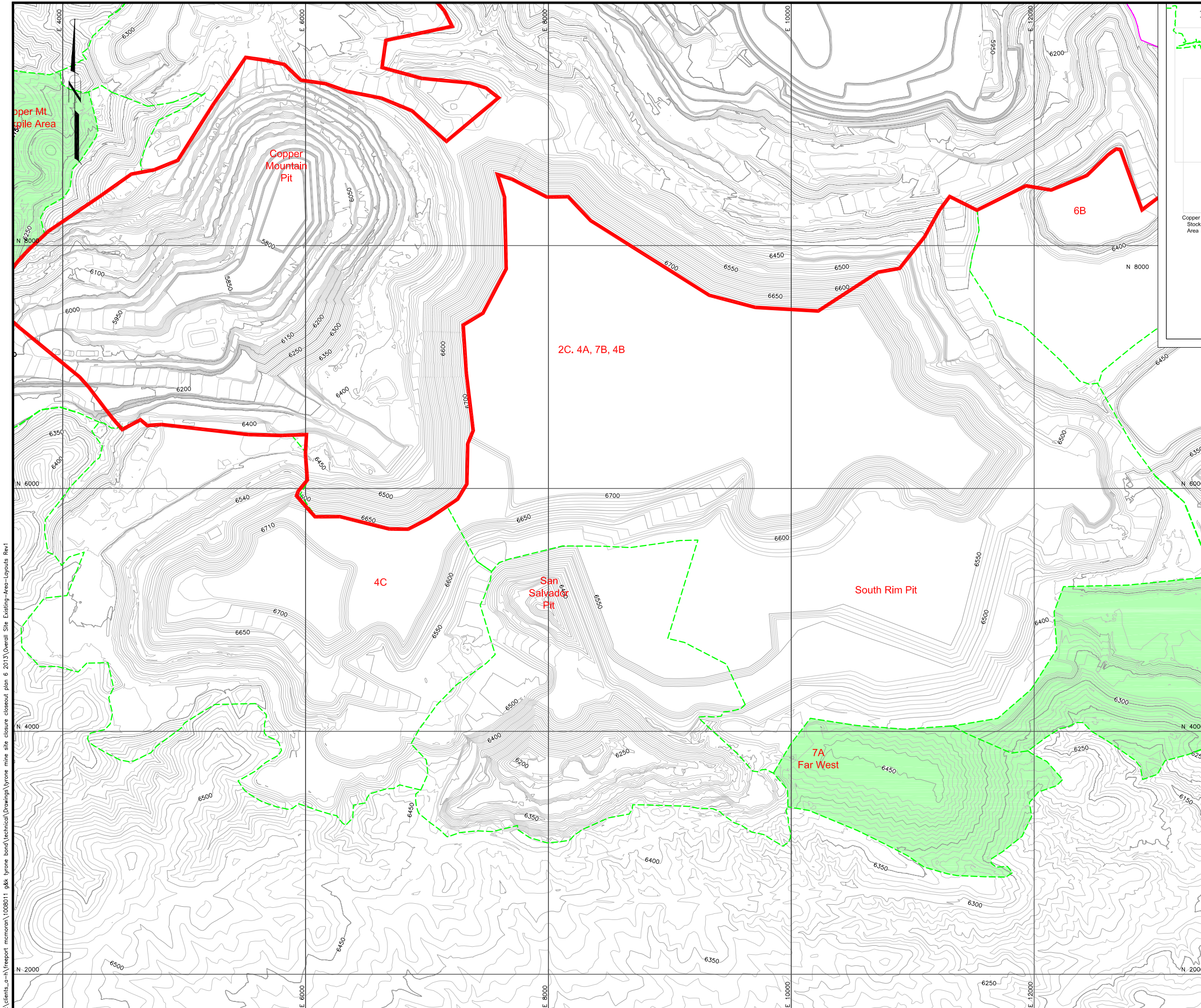
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1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	



PROJECT: **TYRONE MINE AREA RECLAMATION**  
 DRAWING TITLE: **Nos. 2A, 2B LEACH AND 2B WASTE STOCKPILES - CROSS SECTIONS**



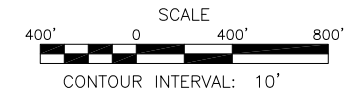
Sheet 11 of 34 Sheets  
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 DRAWING No. 11



KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



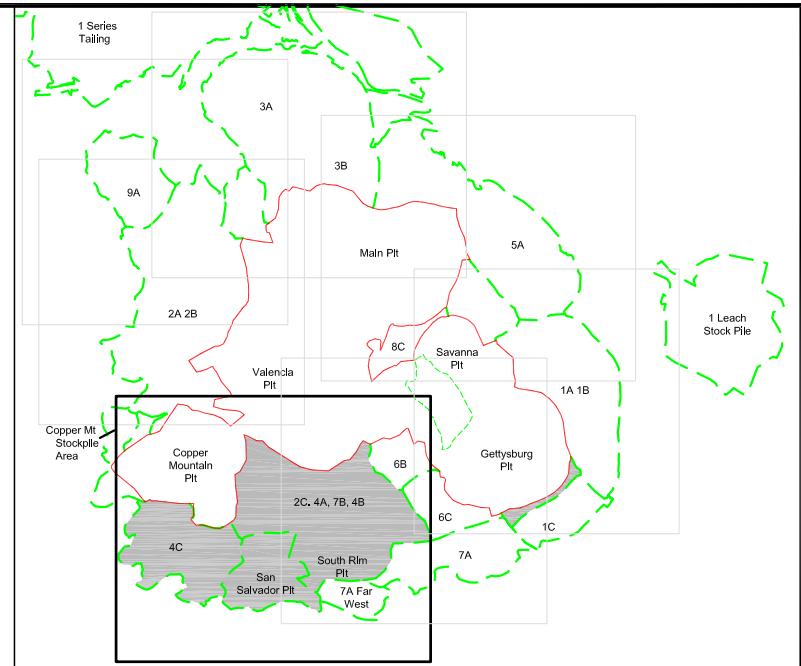
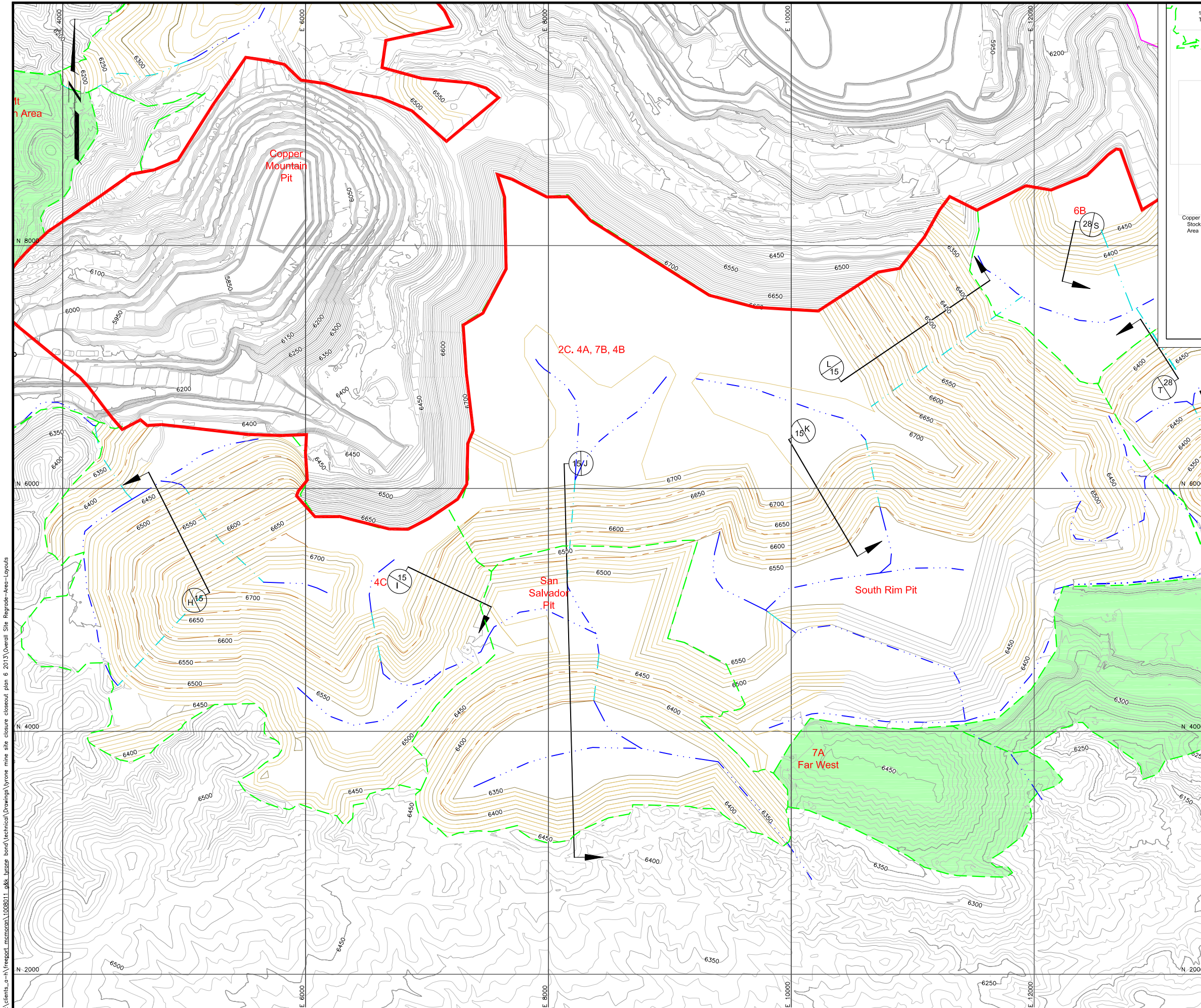
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DRAWING TITLE:  
Nos. 2C, 4A, 4B, 4C, 7B LEACH STOCKPILES,  
SOUTH RIM AND SAN SALVADOR PITS  
2014 CONFIGURATION



Sheet 12 Of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 12

J:\clients\_gm\freemoran\1008011\_ga\tyrone\_bond\Technical\Drawings\tyrone\_mine\_site\_closure\closure\_plan\_6\_2013\Overall\_Site\_Existing-Proposed-Layouts\_Rvr1



**KEY MAP**

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CHANNEL
- DOWN CHUTE CHANNEL
- SIDE SLOPE CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)
- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



1	ISSUED FOR BOND CALCULATION	06/13	T.Ledich	T.Ledich	
0	DRAFT	09/12	T.Ledich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



PROJECT: **TYRONE MINE AREA RECLAMATION**

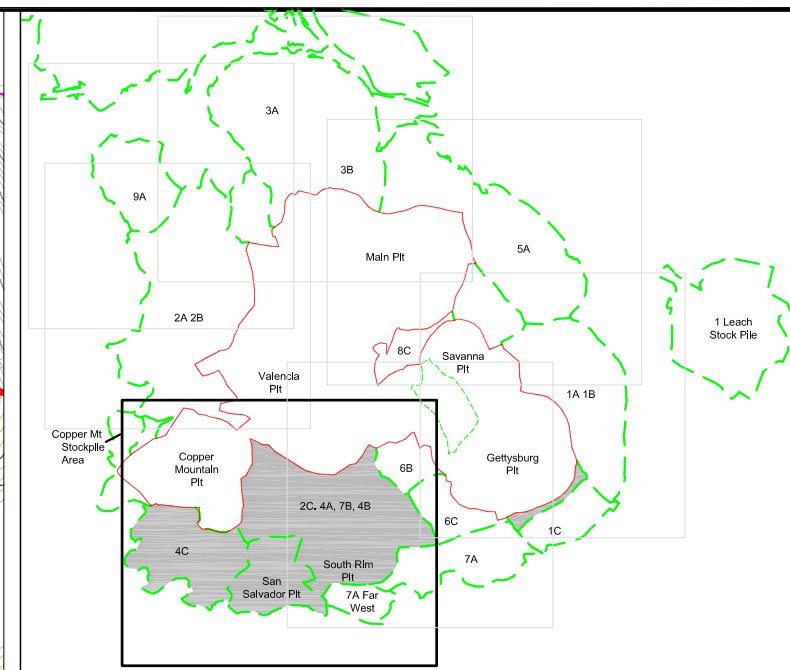
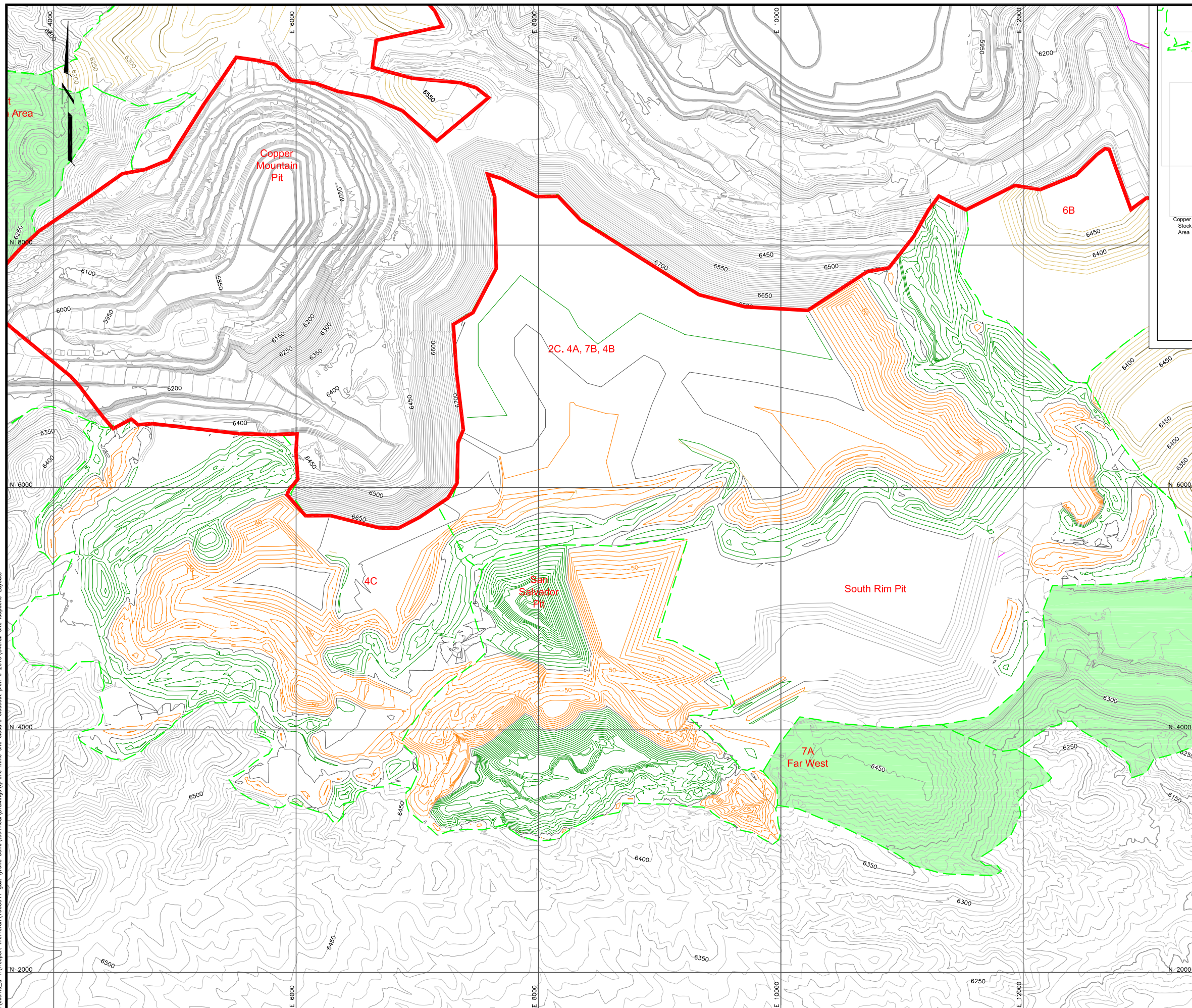
DRAWING TITLE: **Nos. 2C, 4A, 4B, 4C, 7B LEACH STOCKPILES, SOUTH RIM AND SAN SALVADOR PITS GRADING & DRAINAGE PLAN**



Sheet **13** Of **34** Sheets  
 SCALE: **1"=400'**  
 DRAWING No. **13**

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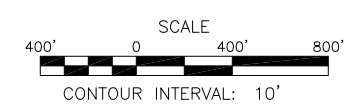
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KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- RECLAIMED AREAS (2014)



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	06/13	T.Ledich	T.Ledich	
0	DRAFT	09/12	T.Ledich	J.Bever	



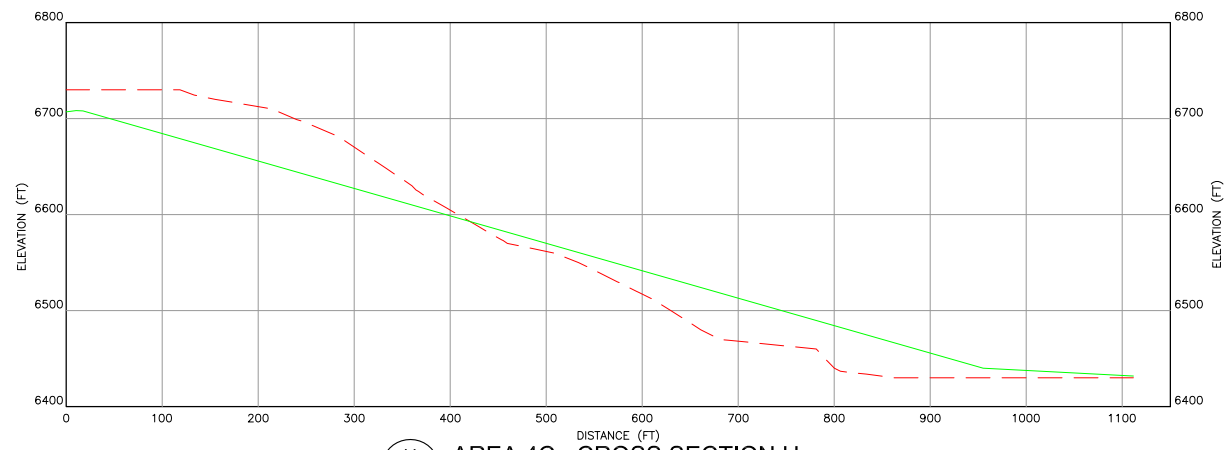
PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE:  
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SOUTH RIM AND SAN SALVADOR PITS  
CUT/FILL ISOPACH MAP

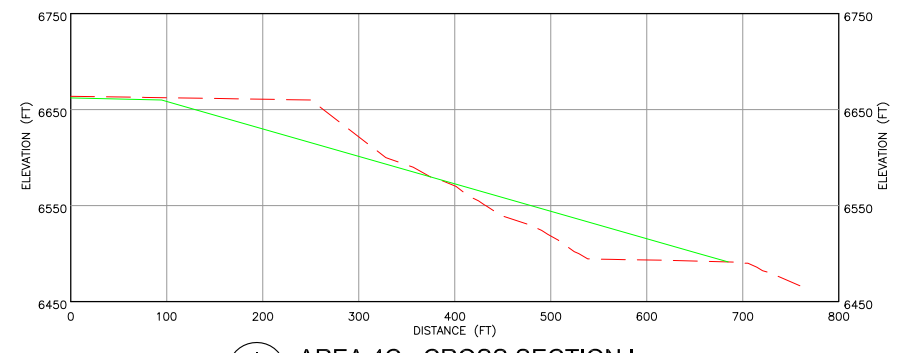


Sheet 14 Of 34 Sheets  
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DRAWING No. 14

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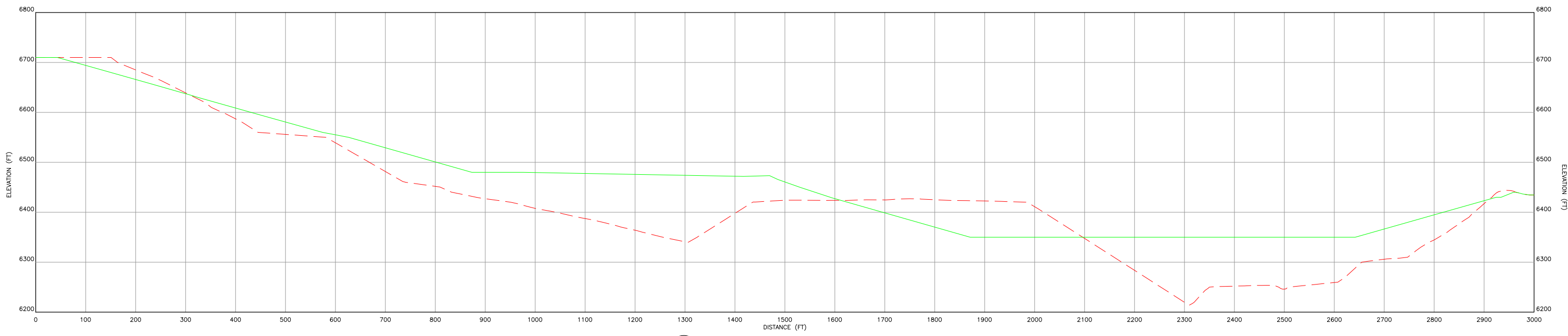
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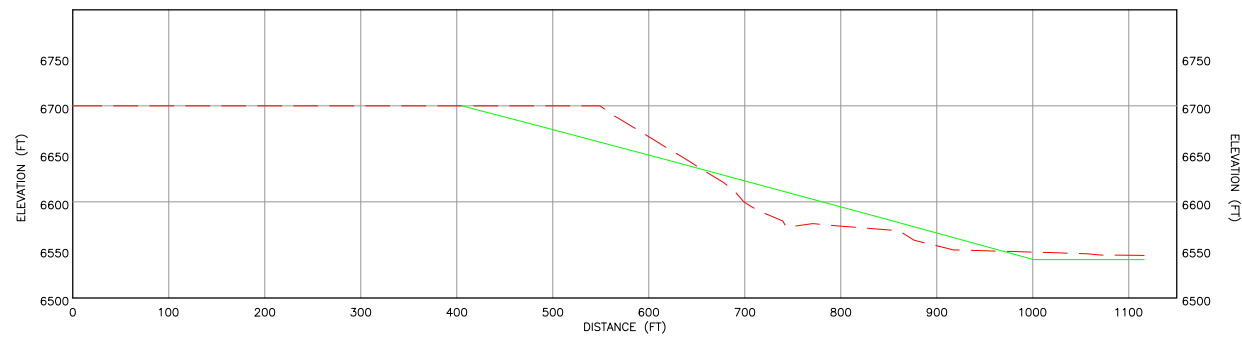
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**AREA 4C - CROSS SECTION I**

**LEGEND**

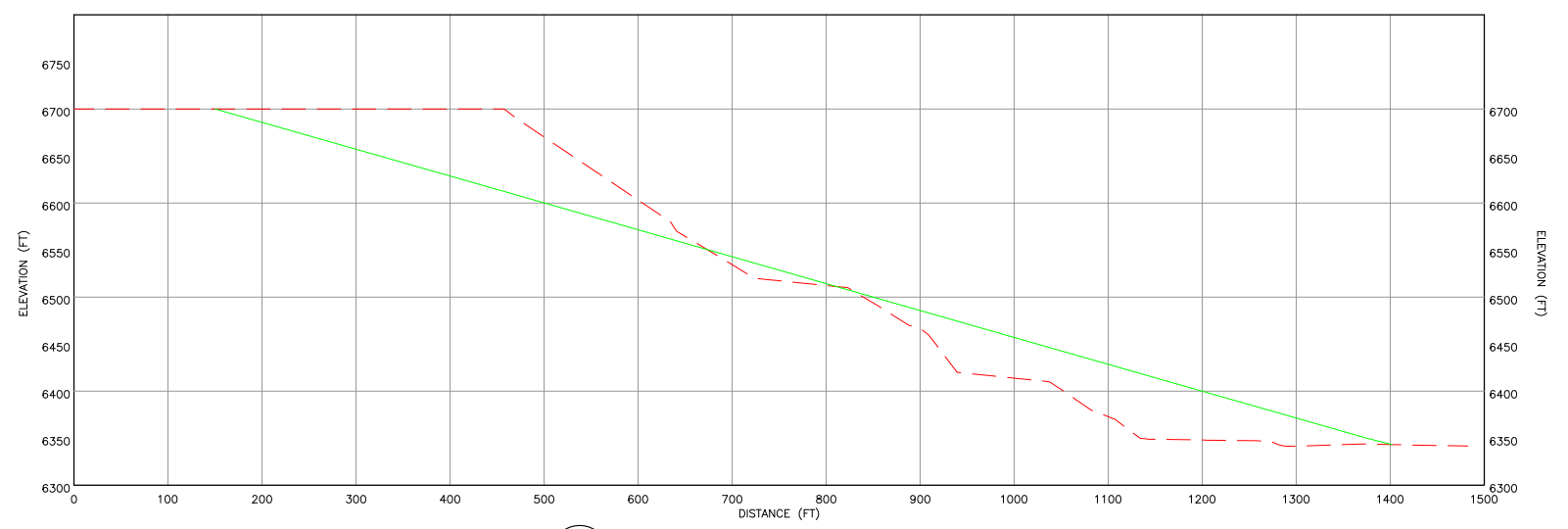
- EXISTING GROUND SURFACE
- REGRADE SURFACE
- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



**J**  
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**AREA 7B - CROSS SECTION J**



**K**  
13  
**AREA 7B - CROSS SECTION K**



**L**  
13  
**AREA 7B - CROSS SECTION L**

Note: The regrade surface shows the overall slope and does not show the terrace benches that will be constructed on inter-bench outslope angles of 3H:1V at slope lengths no greater than 200'. For the typical final slope configuration refer to Drawing No. 33



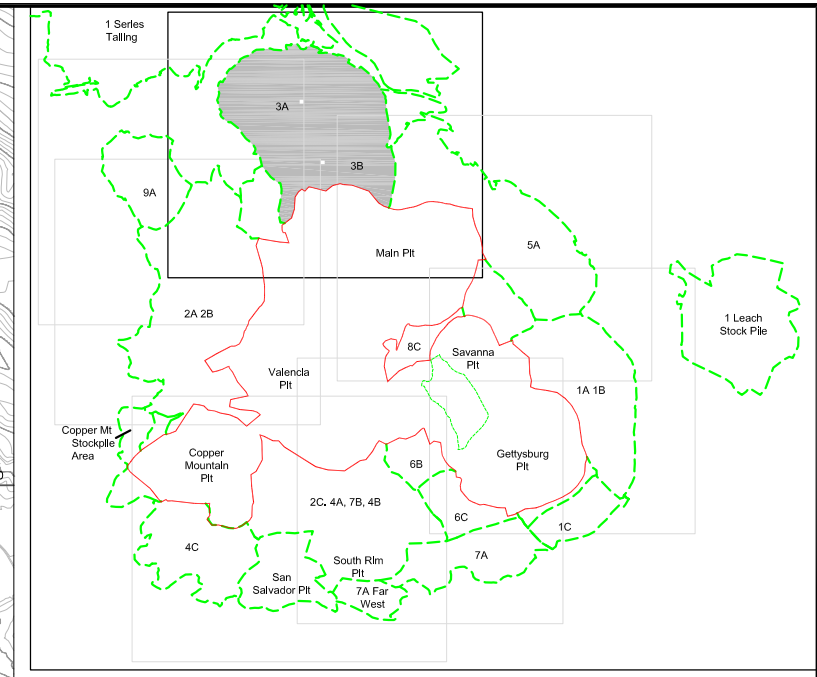
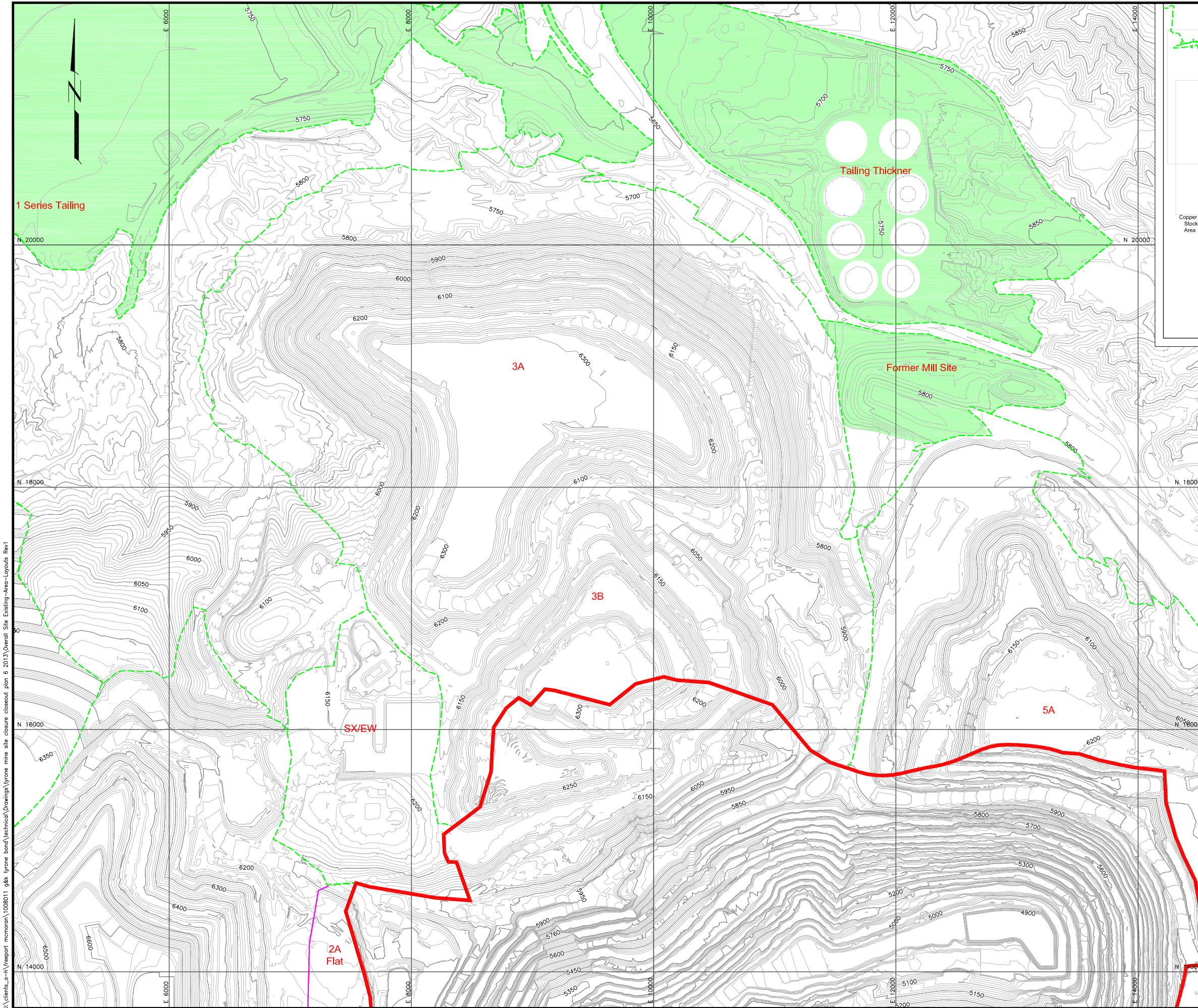
1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



PROJECT: **TYRONE MINE AREA RECLAMATION**  
 DRAWING TITLE: **Nos. 2C, 4A, 4B, 4C, 7B LEACH STOCKPILES, SOUTH RIM AND SAN SALVADOR PITS CROSS SECTIONS**



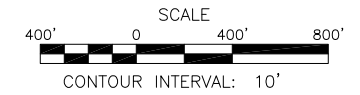
Sheet **15** Of **34** Sheets  
 SCALE: **1"=100'**  
 DRAWING No. **15**



KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT FOR DISCUSSION	05/07	T.Liedich	L.Berkness	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



PROJECT: TYRONE MINE AREA RECLAMATION

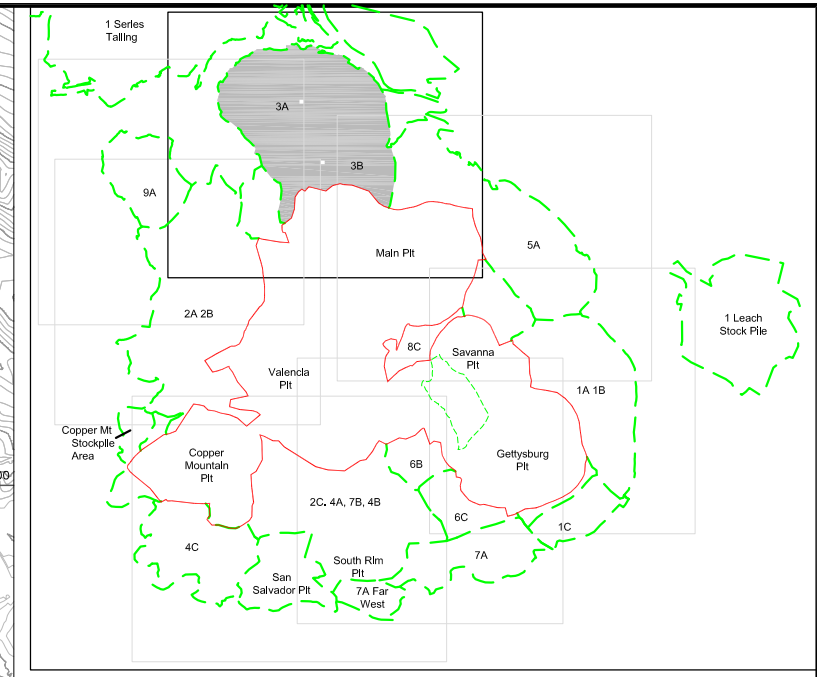
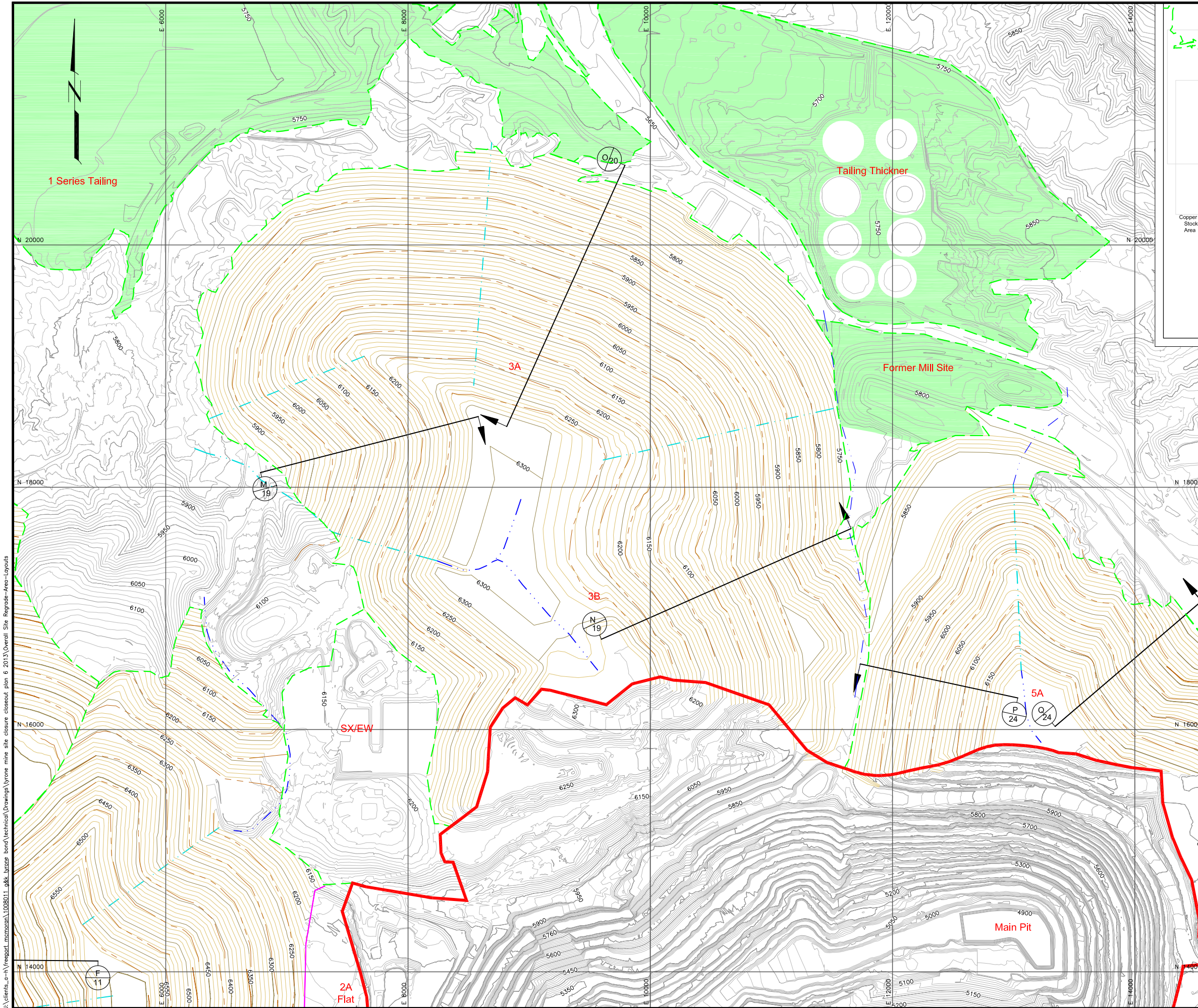
DRAWING TITLE: No. 3A LEACH AND 3B WASTE STOCKPILES 2014 CONFIGURATION



Sheet 16 Of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 16

J:\clients\_gm\freport\_mcmoran\1008011\_ga\tyrone\_bond\technical\Drawings\tyrone\_mine\_site\_closure\closure\_plan\_6\_2013\Overall\_Site\_Existing-As-Built-Layouts\_Rev1

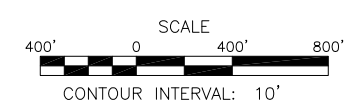




**KEY MAP**

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CHANNEL
- DOWN CHUTE CHANNEL
- SIDE SLOPE CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)
- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT FOR DISCUSSION	05/07	T.Liedich	L.Berkness	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

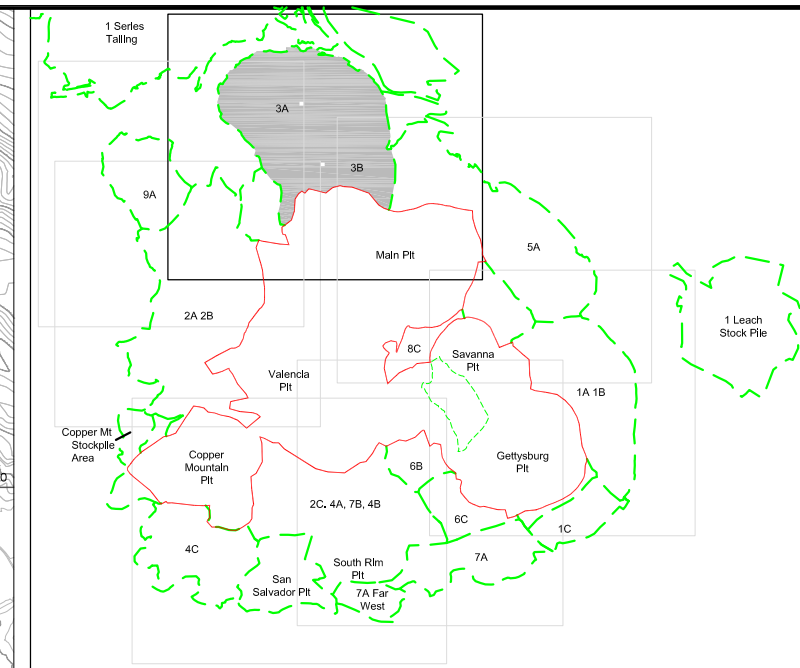
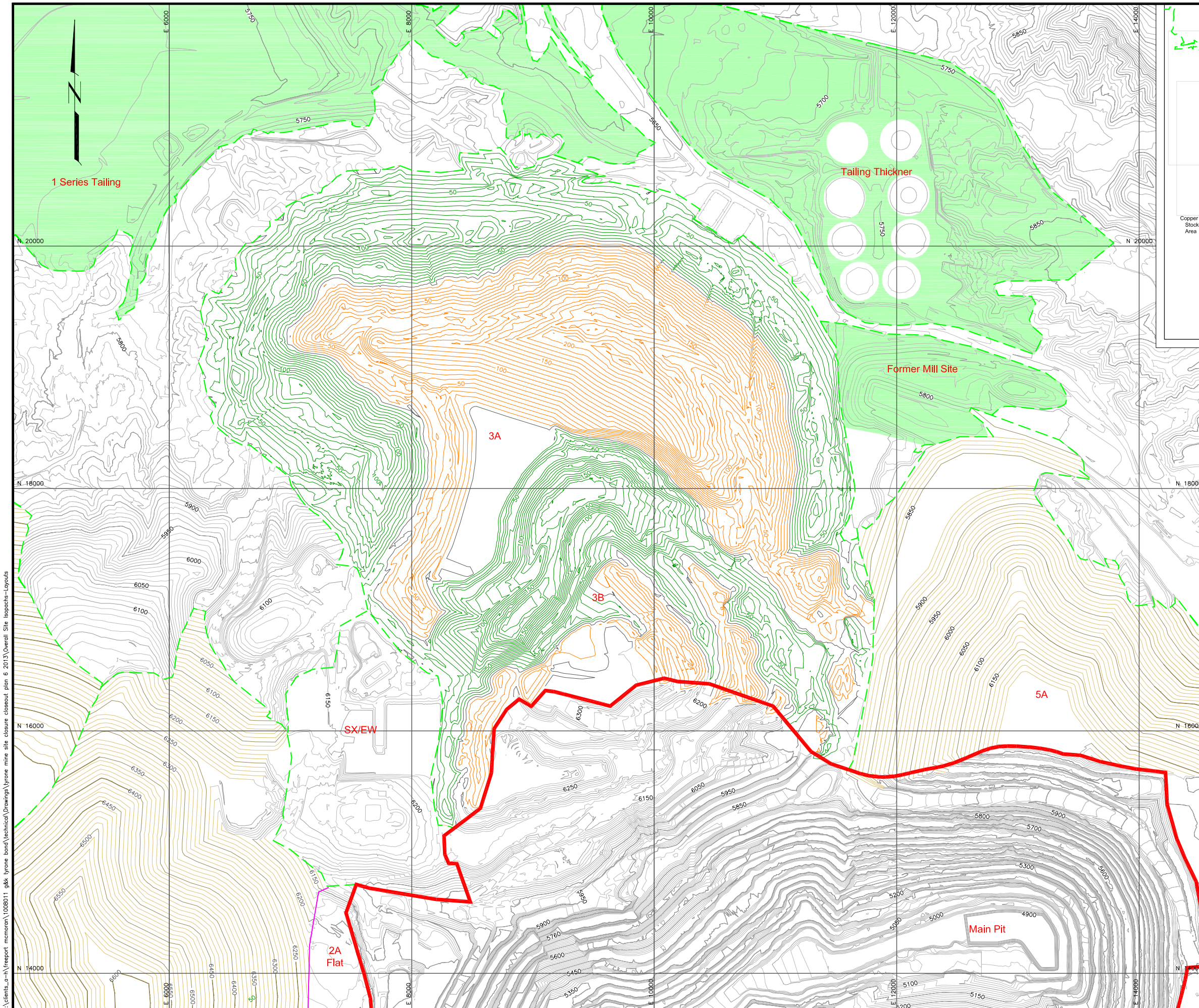


PROJECT: TYRONE MINE AREA RECLAMATION  
 DRAWING TITLE: No. 3A LEACH AND 3B WASTE STOCKPILES GRADING & DRAINAGE PLAN



Sheet 17 Of 34 Sheets  
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 DRAWING No. 17

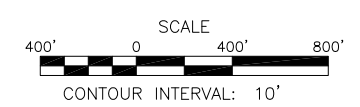
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**KEY MAP**

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	05/13	T.Liedich	L.Moore	
0	DRAFT FOR DISCUSSION	05/07	T.Liedich	L.Berkness	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: No. 3A LEACH AND 3B WASTE STOCKPILES CUT/FILL ISOPACH MAP







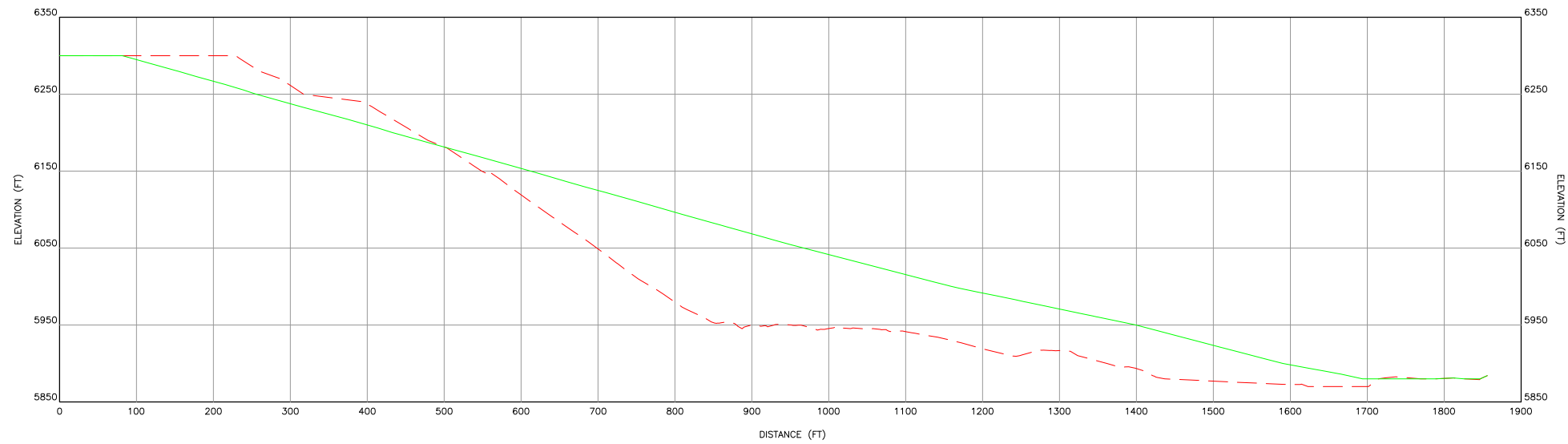
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DRAWING No. 18

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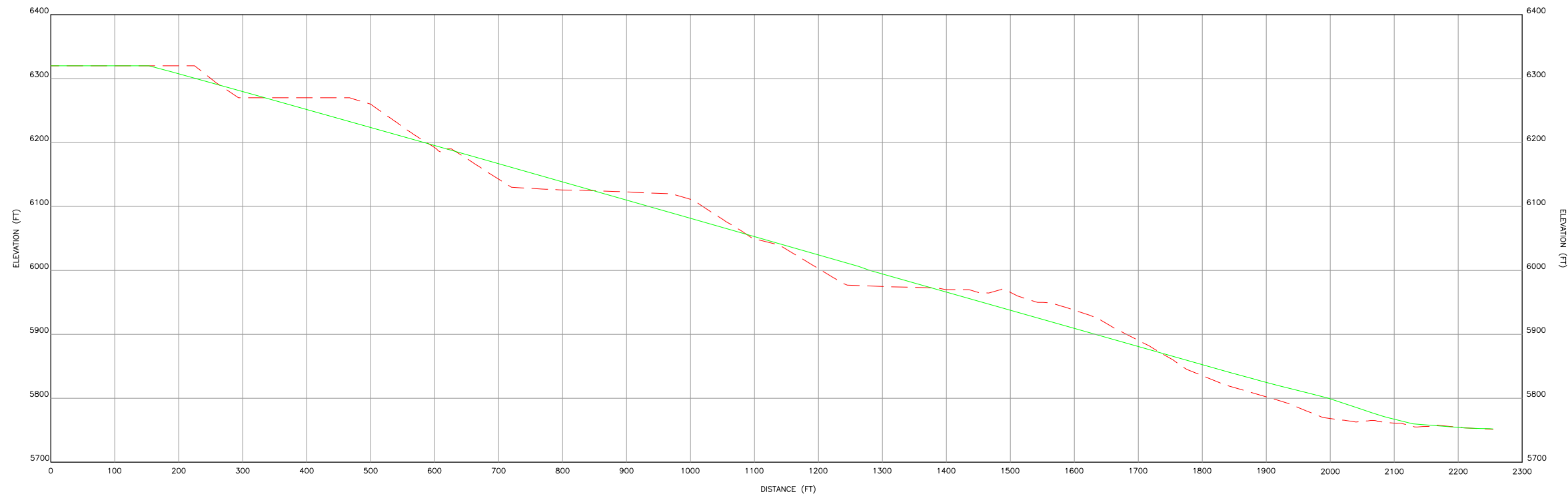
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### LEGEND

-  EXISTING GROUND SURFACE
-  REGRADE SURFACE
-  DETAIL/SECTION NUMBER
-  DRAWING No. WHERE DETAIL/SECTION IS SHOWN



**M**  
17 AREA 3A-3B CROSS SECTION M



**N**  
17 AREA 3A-3B CROSS SECTION N



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T. Leidich	
0	DRAFT	09/12	T.Liedich	J.Bever	



PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE: **Nos. 3A LEACH AND 3B WASTE STOCKPILES CROSS SECTIONS - 1**







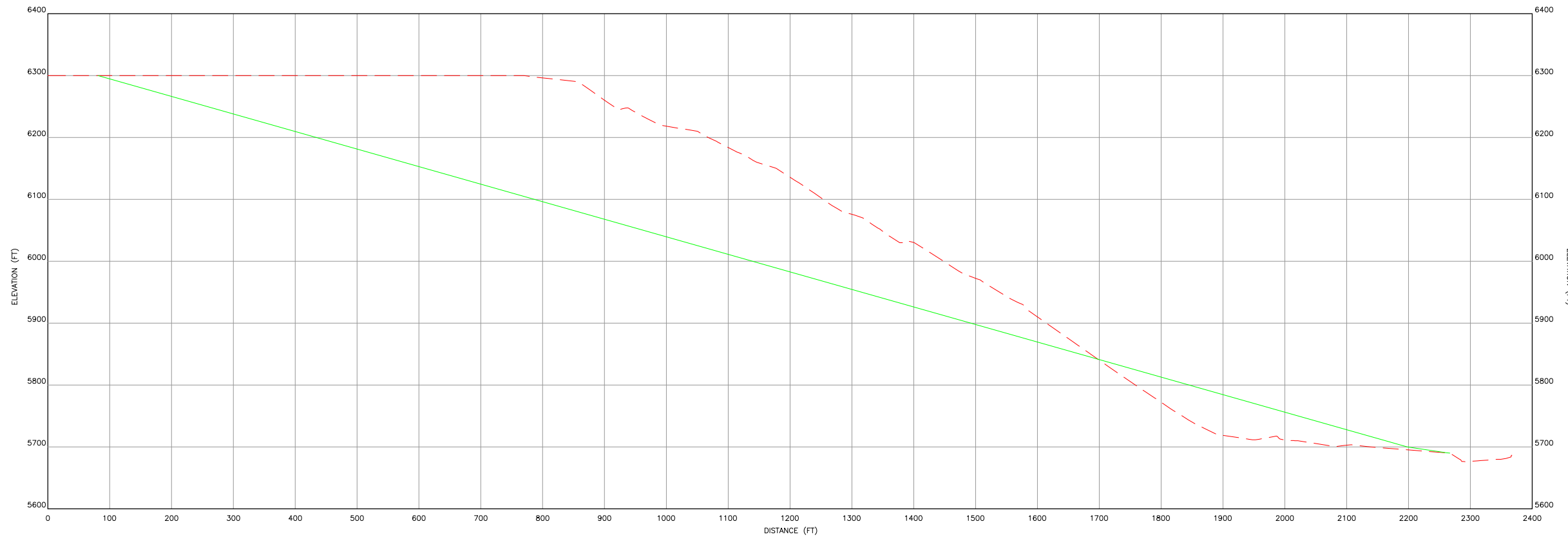
Sheet 19 of 34 Sheets  
SCALE: 1"=100' DRAWING No. 19


Note: The regrade surface shows the overall slope and does not show the terrace benches that will be constructed on inter-bench outslope angles of 3H:1V at slope lengths no greater than 200'. For the typical final slope configuration refer to Drawing No. 33

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### LEGEND

-  EXISTING GROUND SURFACE
-  REGRADE SURFACE
-  DETAIL/SECTION NUMBER
-  DRAWING No. WHERE DETAIL/SECTION IS SHOWN



 AREA 3A-3B CROSS SECTION 0



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	



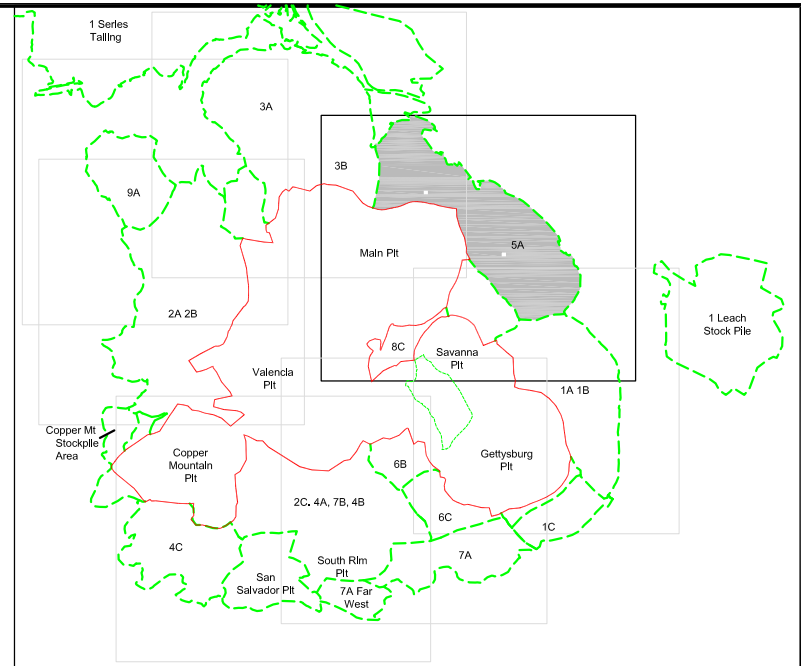
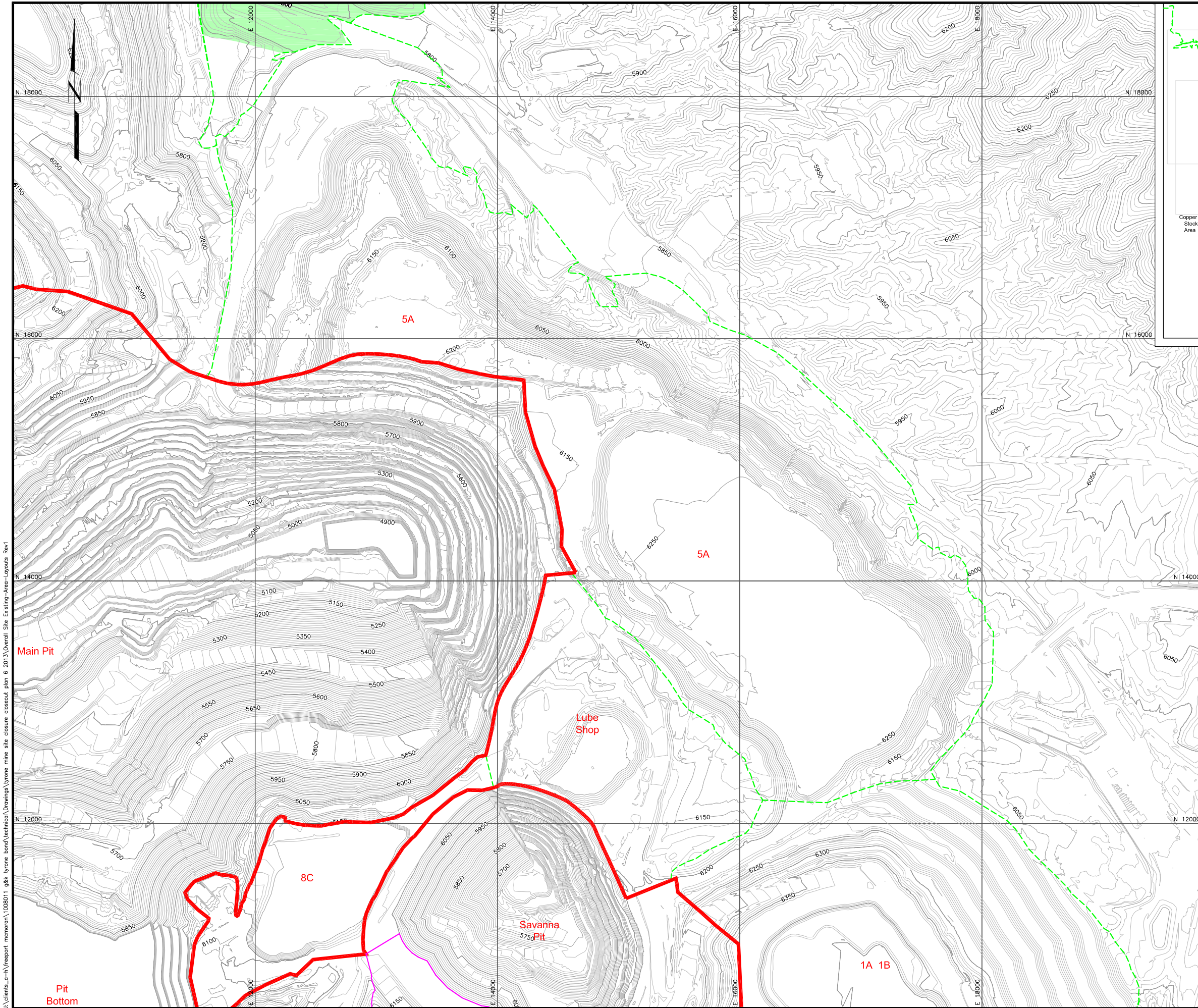
PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE:  
Nos. 3A LEACH AND 3B WASTE STOCKPILES  
CROSS SECTIONS - 2



Sheet 20 of 34 Sheets  
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DRAWING No. 20

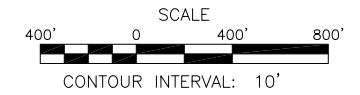
Note: The regrade surface shows the overall slope and does not show the terrace benches that will be constructed on inter-bench outslope angles of 3H:1V at slope lengths no greater than 200'. For the typical final slope configuration refer to Drawing No. 33



**KEY MAP**

**LEGEND**

- 6250 EXISTING CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	05/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	



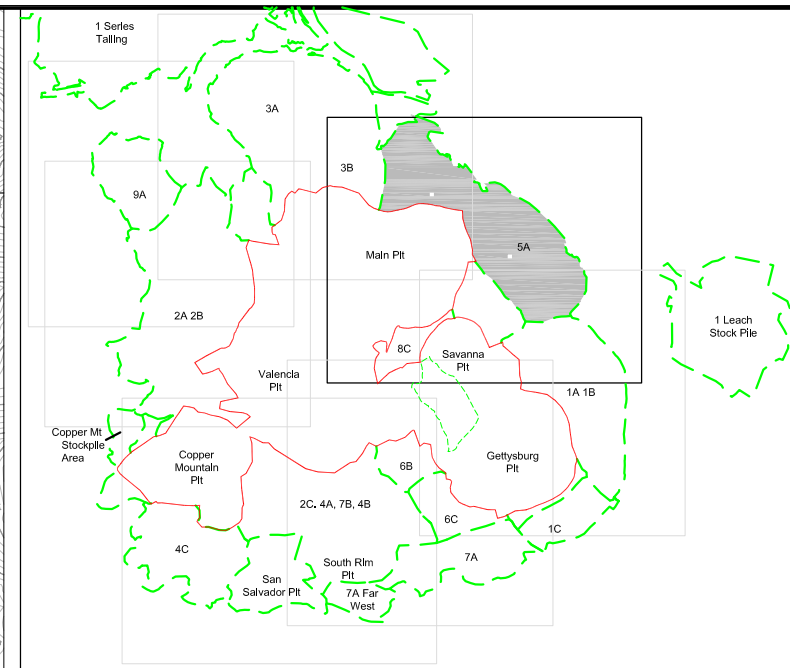
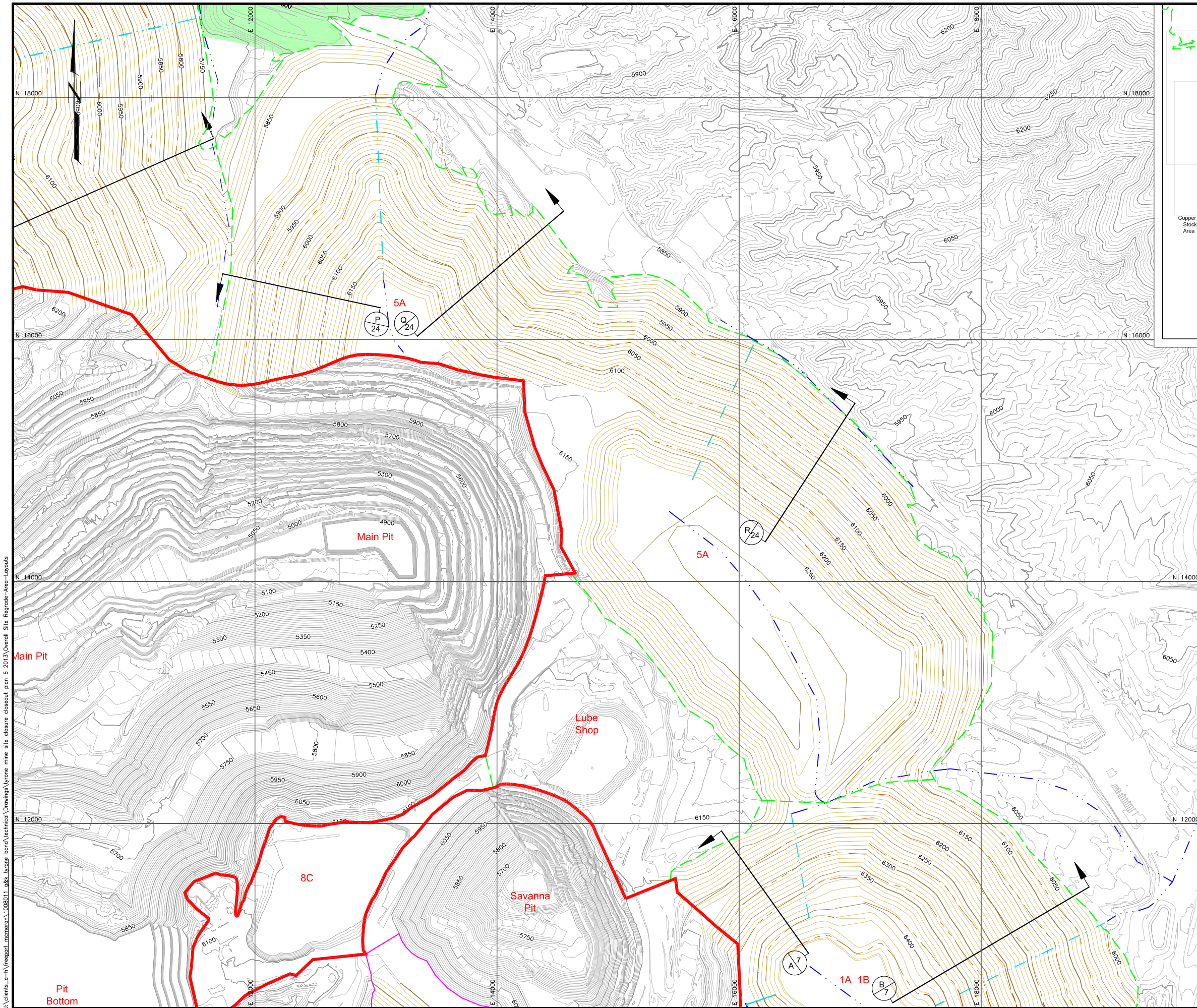
PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: No. 5A WASTE STOCKPILE 2014 CONFIGURATION



Sheet 21 of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 21

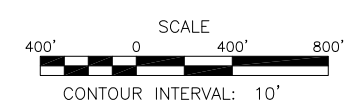
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**KEY MAP**

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CHANNEL
- DOWN CHUTE CHANNEL
- SIDE SLOPE CHANNEL
- INTERIOR FLAT AREAS
- RECLAIMED AREAS (2014)
- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



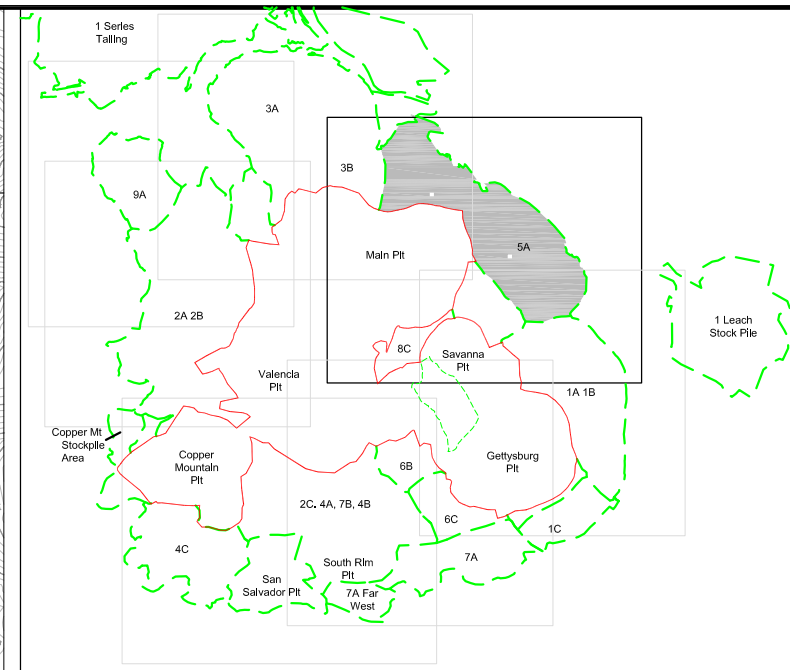
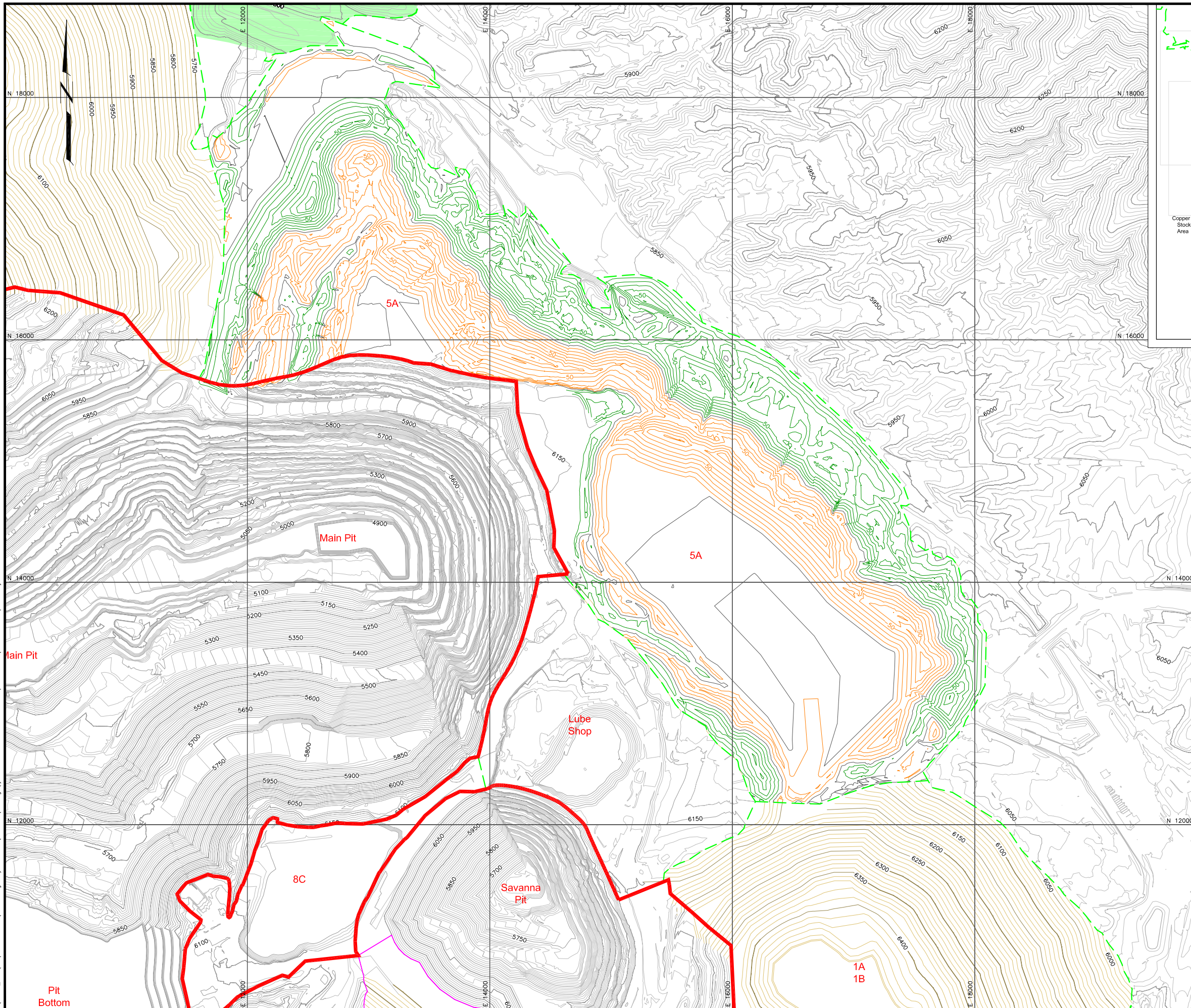
PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE: **No. 5A WASTE STOCKPILE GRADING & DRAINAGE PLAN**



Sheet **22** Of **34** Sheets  
 SCALE: 1"=400'  
 DRAWING No. **22**

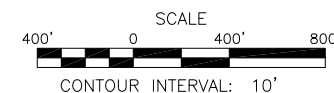
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**KEY MAP**

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



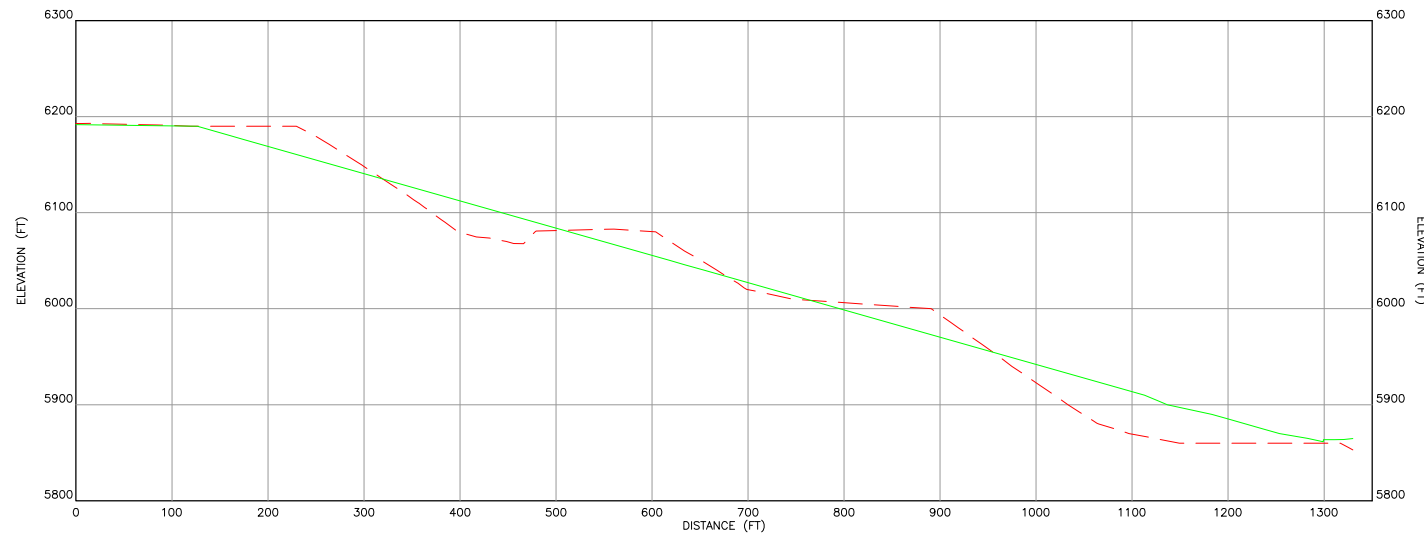
PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE: **No. 5A WASTE STOCKPILE CUT/FILL ISOPACH MAP**

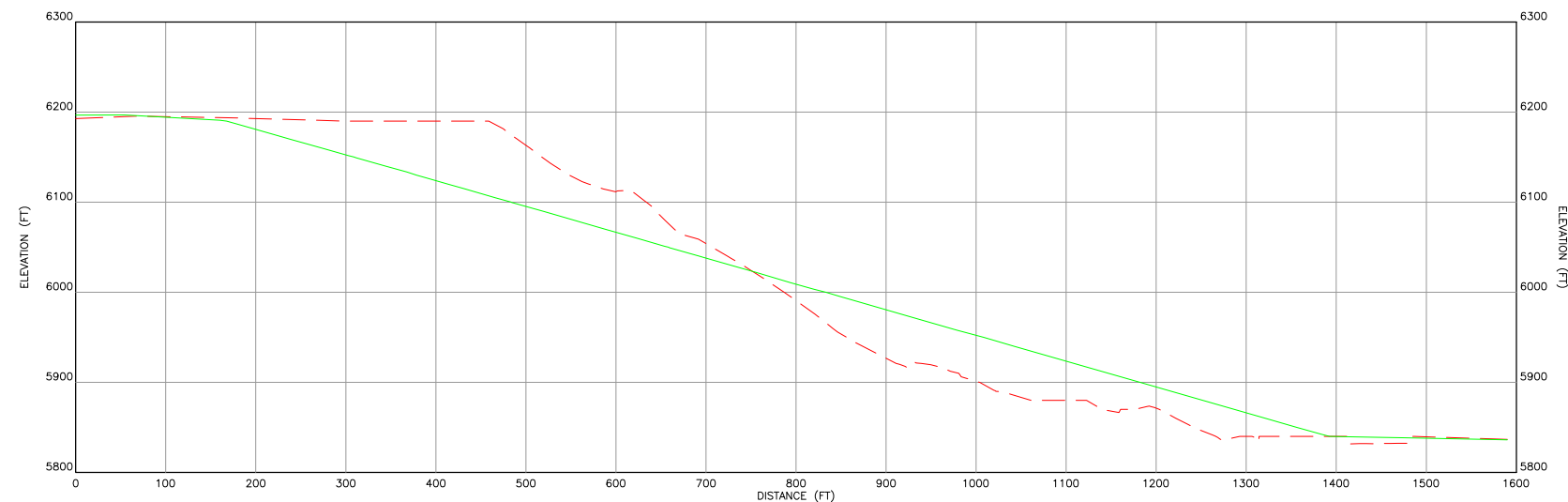


Sheet **23** Of **34** Sheets  
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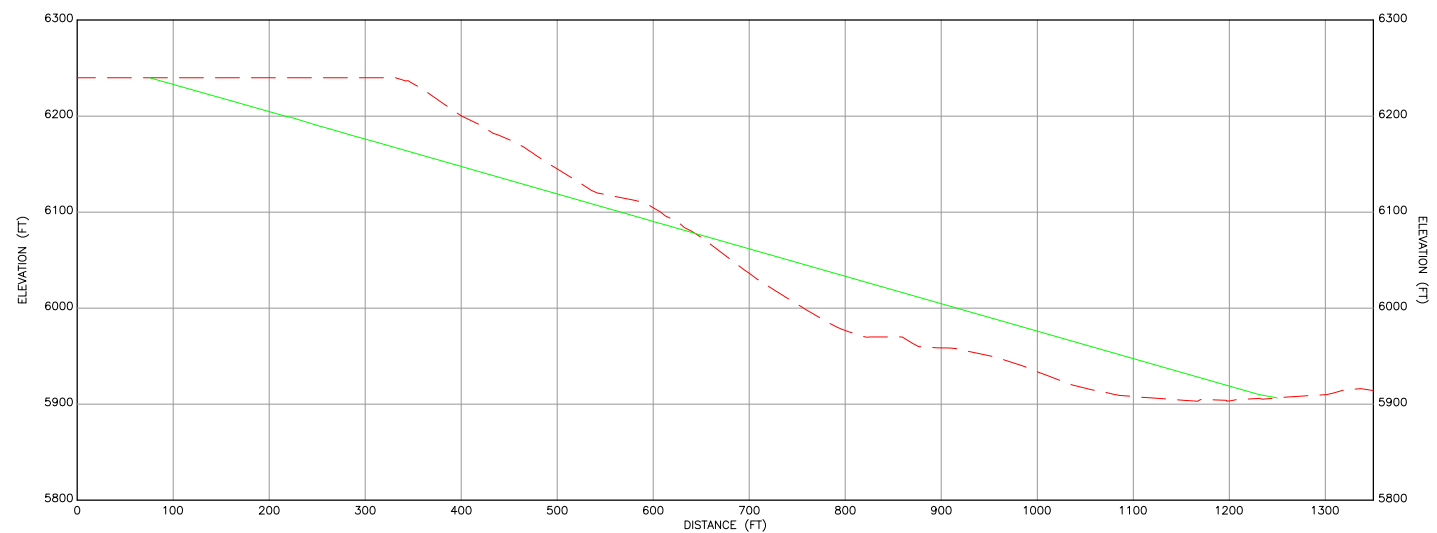
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**P**  
22 AREA 5A - CROSS SECTION P



**Q**  
22 AREA 5A - CROSS SECTION Q



**R**  
22 AREA 5A - CROSS SECTION R

**LEGEND**

- EXISTING GROUND SURFACE
- REGRADE SURFACE
- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	



PROJECT: **TYRONE MINE AREA RECLAMATION**

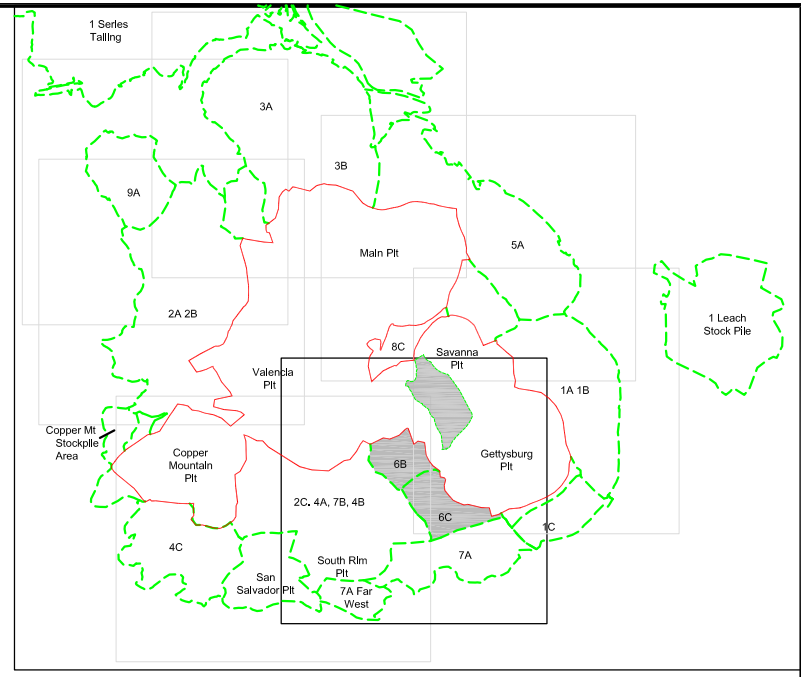
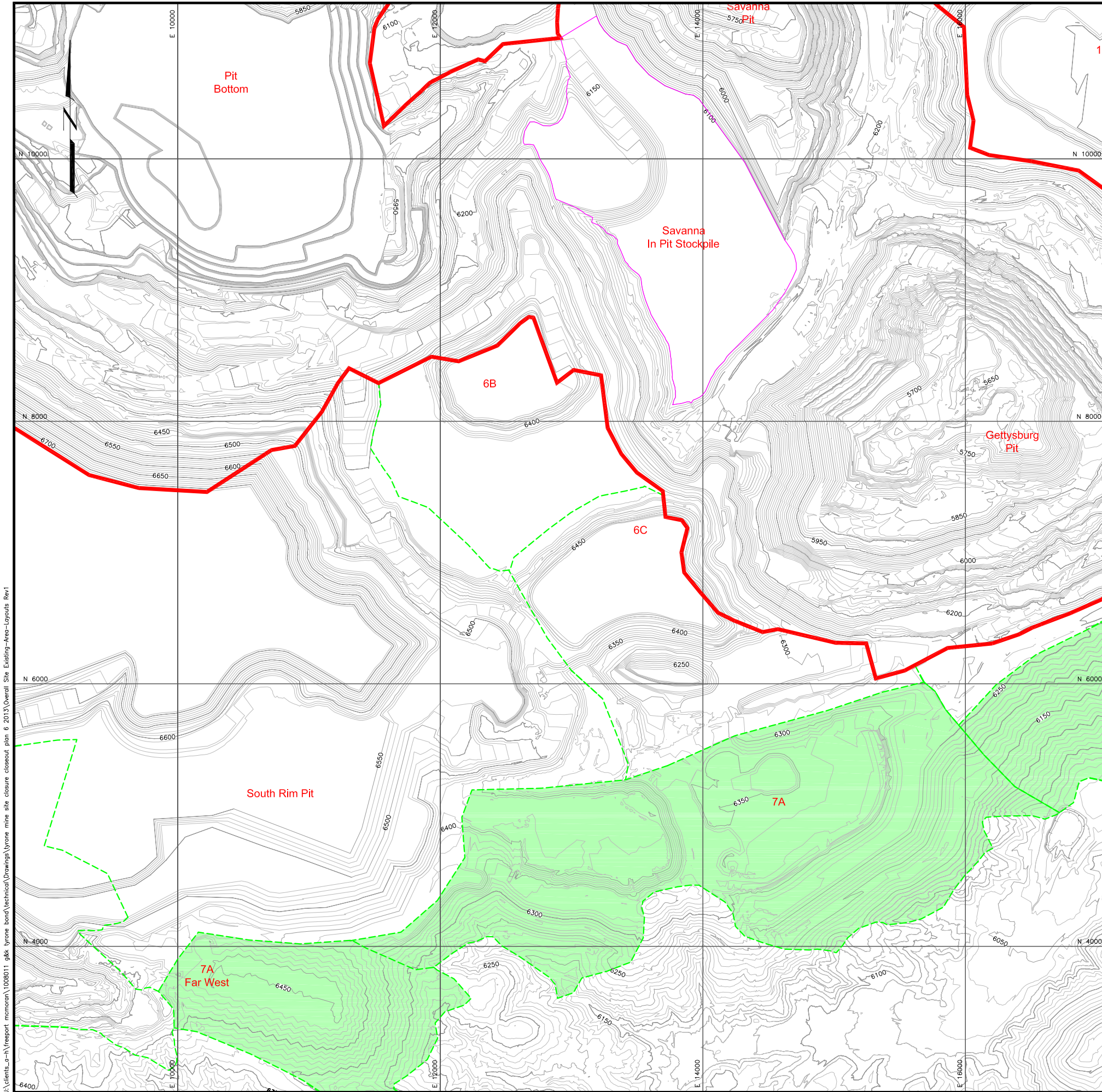
DRAWING TITLE: **No. 5A WASTE STOCKPILE CROSS SECTIONS**



Sheet **24** of **34** Sheets  
SCALE: **1"=100'** DRAWING No. **24**

Note: The regrade surface shows the overall slope and does not show the terrace benches that will be constructed on inter-bench outslope angles of 3H:1V at slope lengths no greater than 200'. For the typical final slope configuration refer to Drawing No. 33

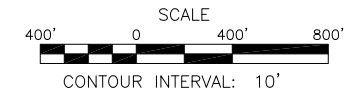




KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

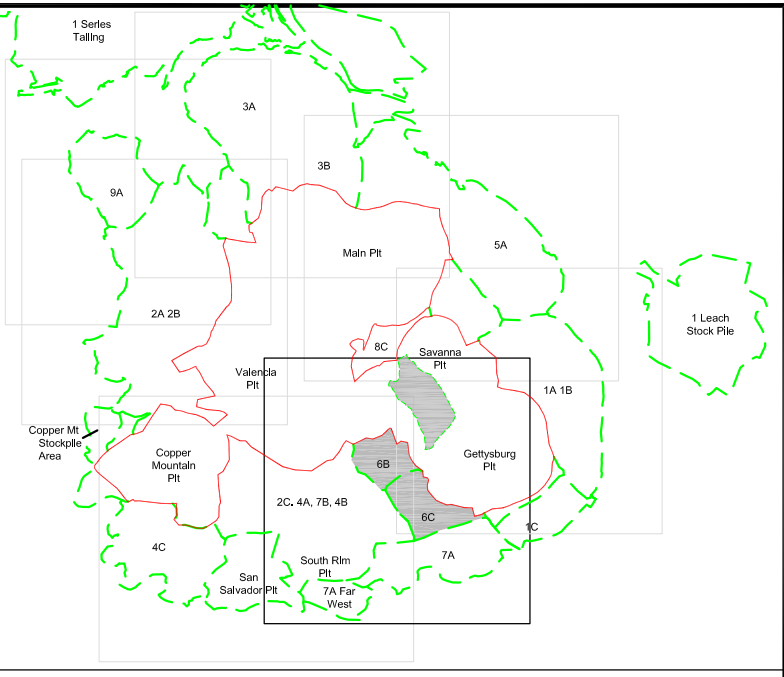
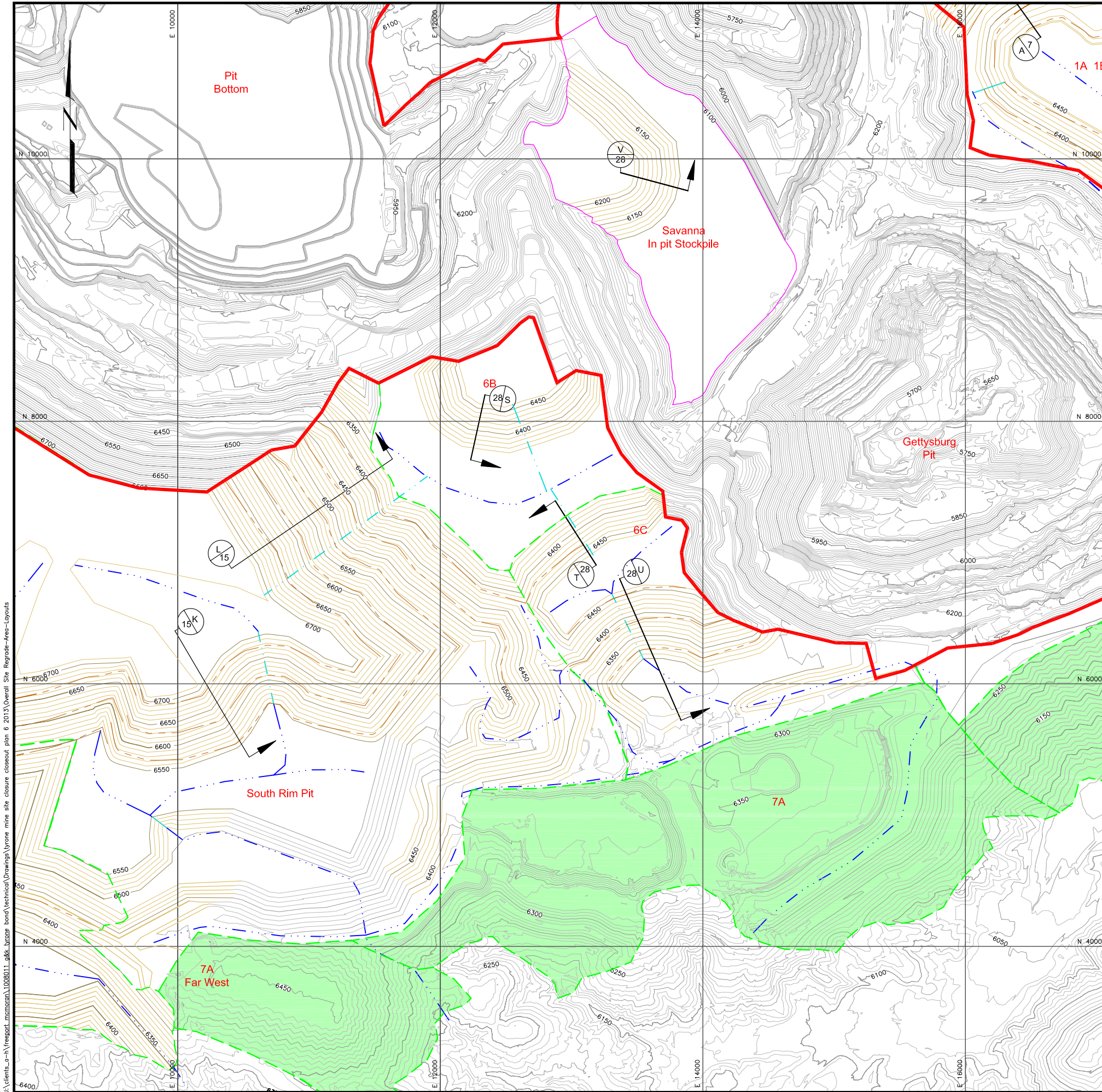


PROJECT: TYRONE MINE AREA RECLAMATION  
 DRAWING TITLE: Nos. 6B, 6C AND SAVANNA IN-PIT LEACH STOCKPILE - 2014 CONFIGURATION



Sheet 25 Of 34 Sheets  
 SCALE: 1"=400'  
 DRAWING No. 25

J:\clients\_e\A\Freepor\mcmoran\1008011\_g&e\tyrone\_bond\technical\Drawings\tyrone\_mine\_site\_closure\closure\_plan\_6\_2013\Overall\_Site\_Existing-Prop-Layouts\_Rev1

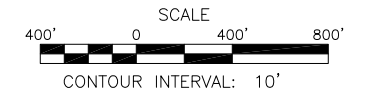


KEY MAP

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CHANNEL
- DOWN CHUTE CHANNEL
- SIDE SLOPE CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)

- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

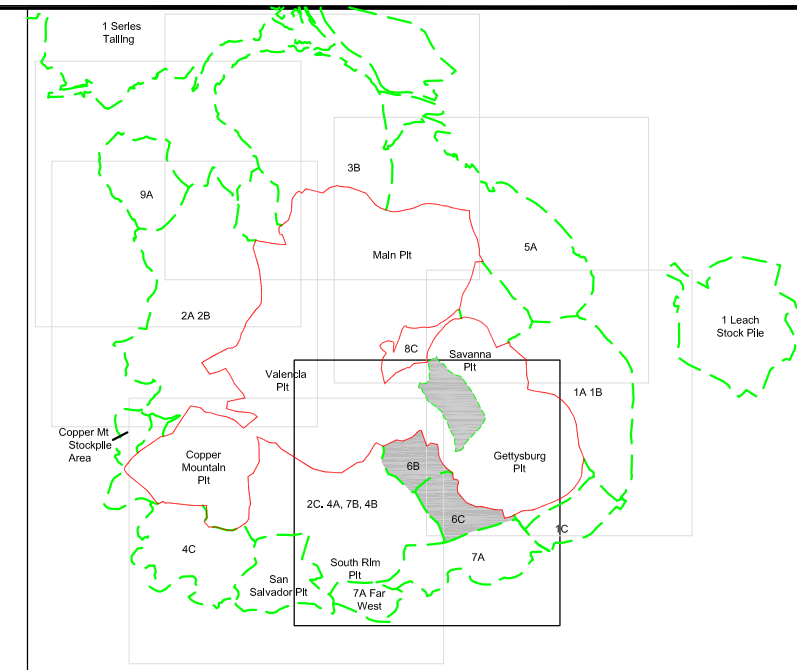
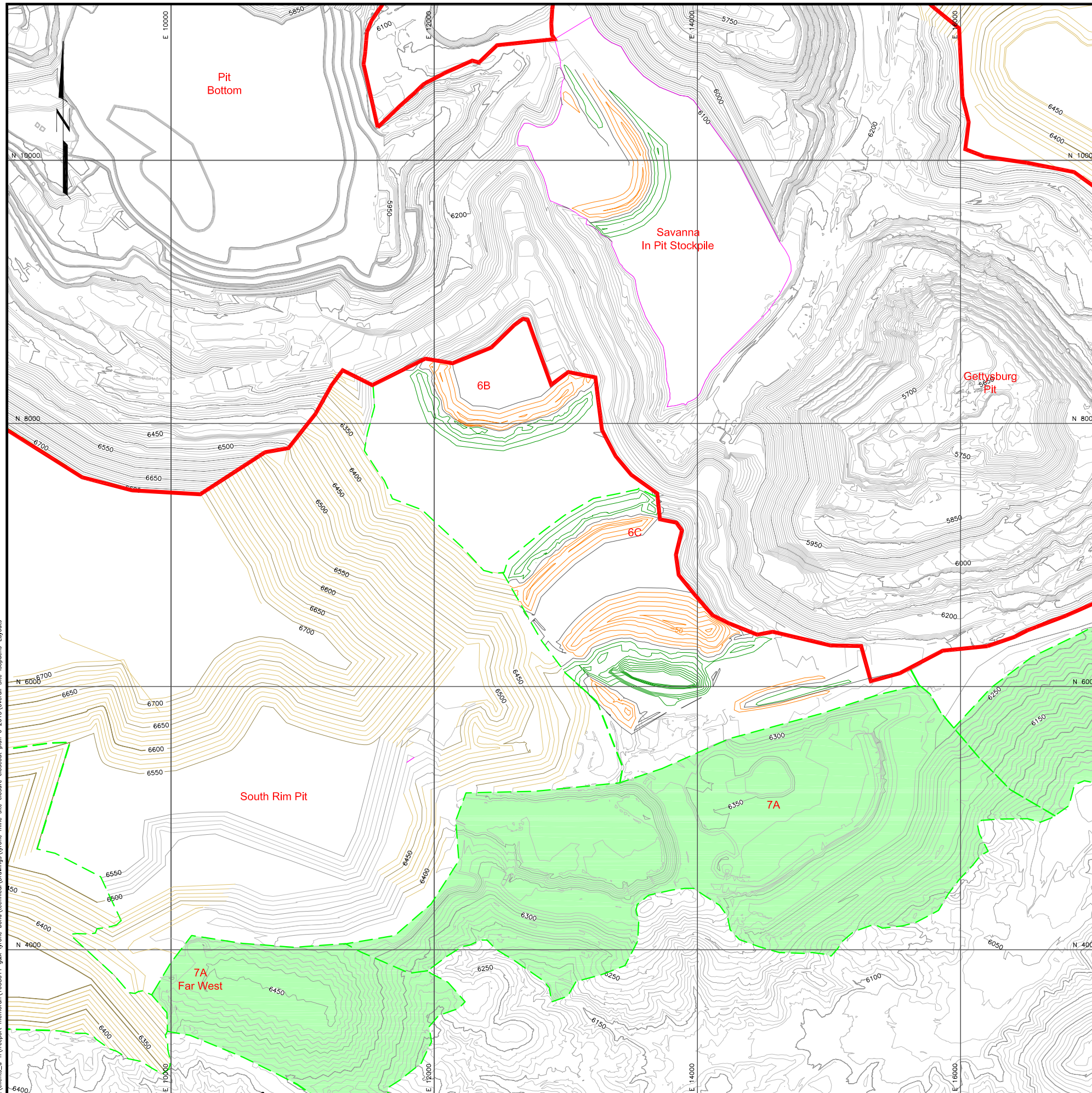


PROJECT: TYRONE MINE AREA RECLAMATION  
 DRAWING TITLE: Nos. 6B, 6C, AND SAVANNA IN- PIT LEACH STOCKPILES - GRADING & DRAINAGE PLAN












Sheet 26 Of 34 Sheets  
 SCALE: 1"=400'  
 DRAWING No. 26

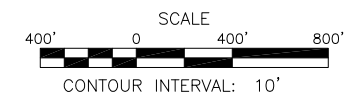
J:\clients\_e-h\freemoran\1008011\_s&h\_kurap\_bond\technical\Drawings\Tyron mine site closure\closure plan 6 2013\Overall Site Regrade-Are-Layouts



KEY MAP

LEGEND

-  6250 EXISTING CONTOURS
-  6250 REGRADED CONTOURS
-  CONDITIONAL WAIVER AREA
-  RECLAMATION AREA
-  CUT ISOPACH
-  FILL ISOPACH
-  ZERO ELEVATION ISOPACH
-  INTERIOR FLAT AREA
-  RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



PROJECT: TYRONE MINE AREA RECLAMATION

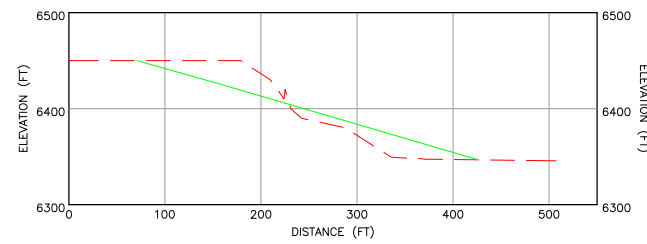
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Nos. 6B, 6C, AND SAVANNA IN-PIT LEACH STOCKPILE - CUT/FILL ISOPACH MAP



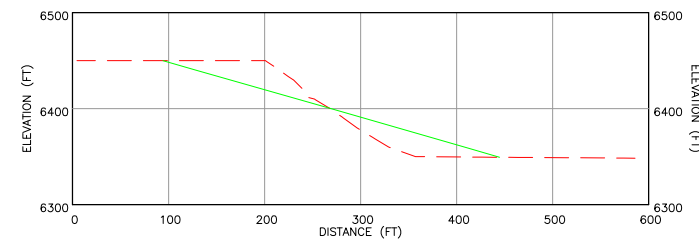
Sheet 27 Of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 27

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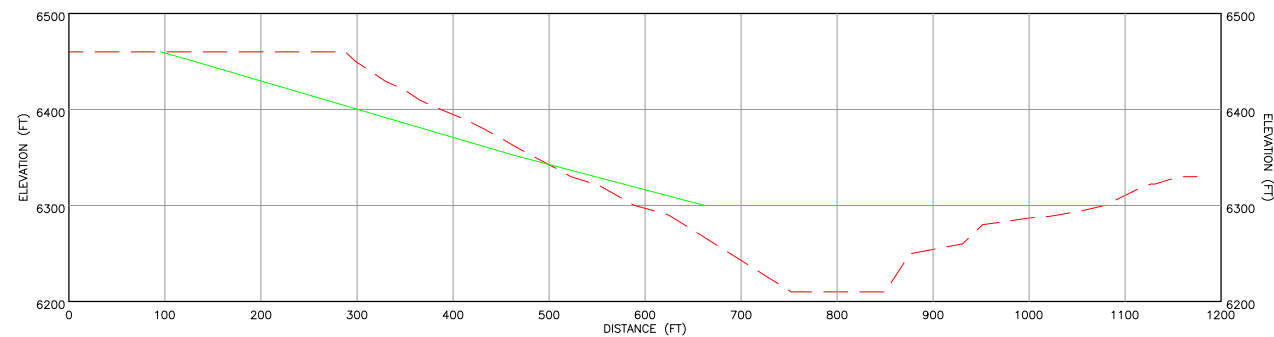
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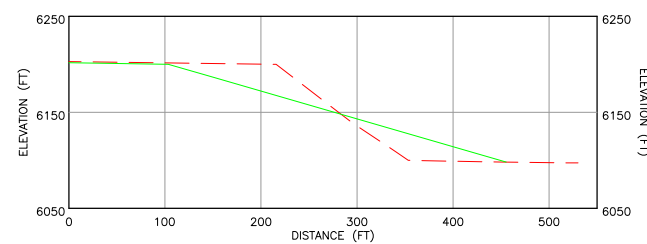
**S**  
26 AREA 6B - CROSS SECTION S



**T**  
26 AREA 6C - CROSS SECTION T



**U**  
26 AREA 6C - CROSS SECTION U



**V**  
26 AREA 8C - CROSS SECTION V

**LEGEND**

- EXISTING GROUND SURFACE
- REGRADE SURFACE
- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	



PROJECT: TYRONE MINE AREA RECLAMATION

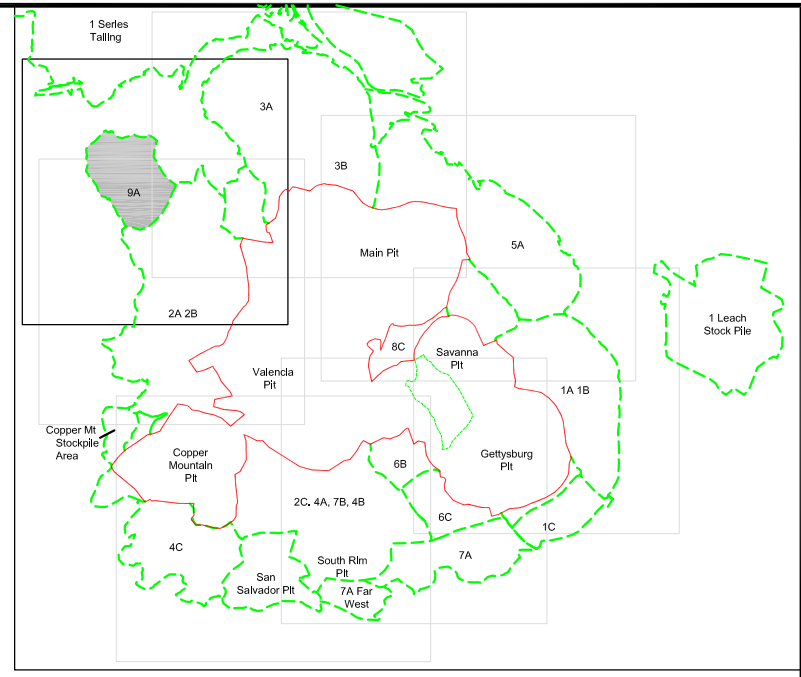
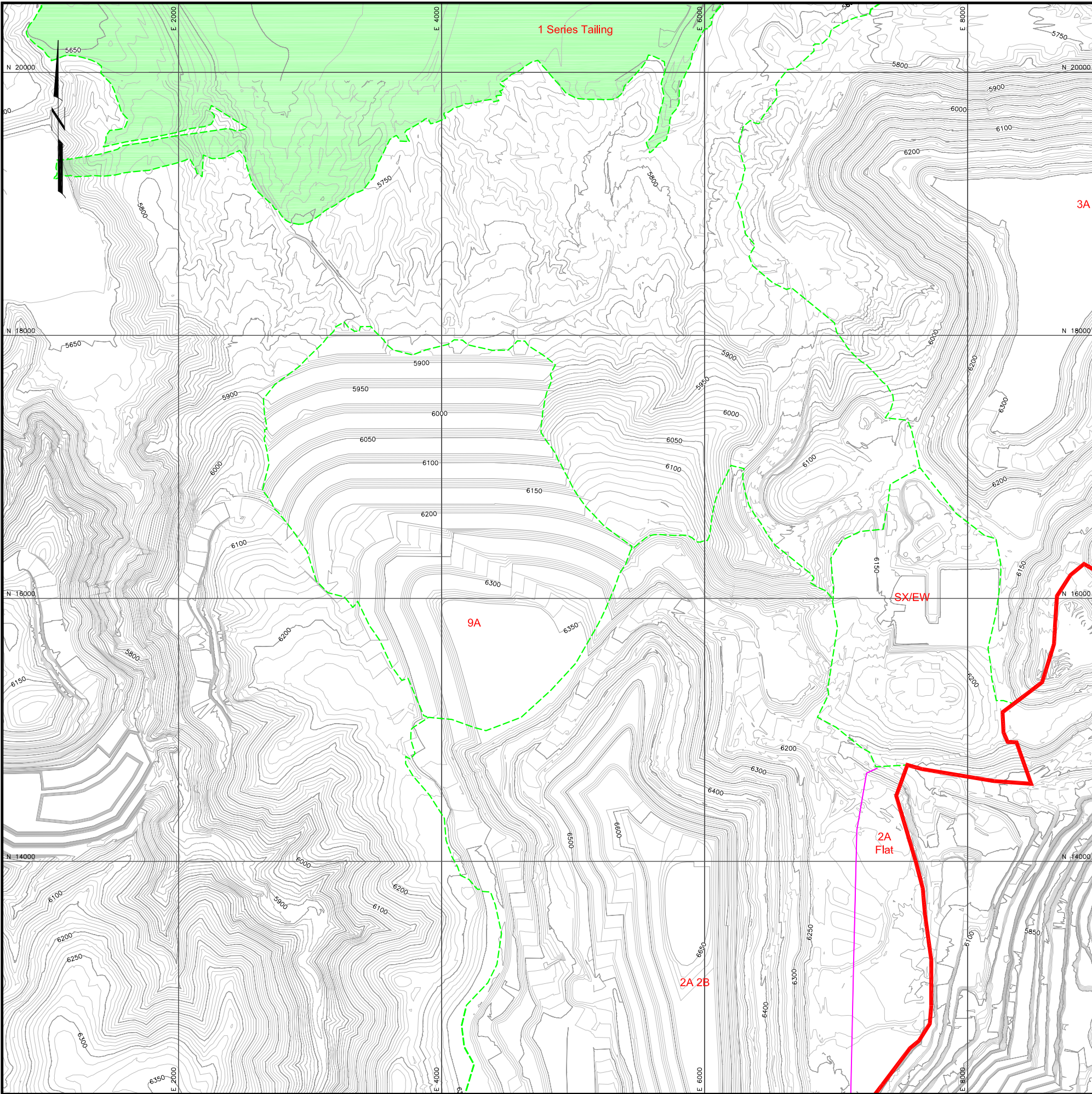
DRAWING TITLE:  
Nos. 6B, 6C, AND SAVANNA IN-PIT LEACH STOCKPILES - CROSS SECTIONS



Sheet 28 of 34 Sheets  
SCALE: 1"=100'  
DRAWING No. 28

Note: The regrade surface shows the overall slope and does not show the terrace benches that will be constructed on inter-bench outslope angles of 3H:1V at slope lengths no greater than 200'. For the typical final slope configuration refer to Drawing No. 33

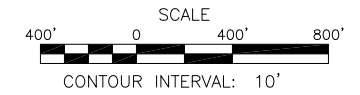
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KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

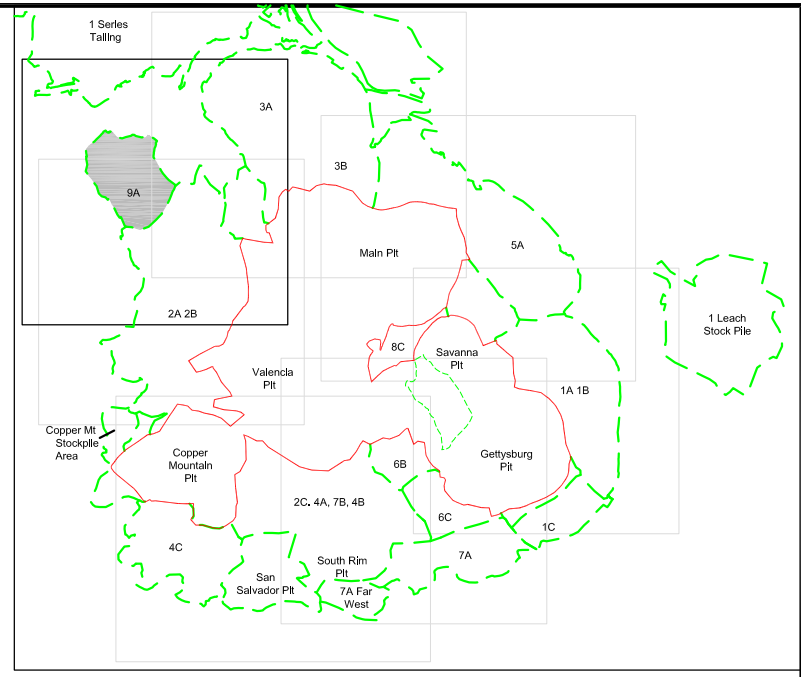
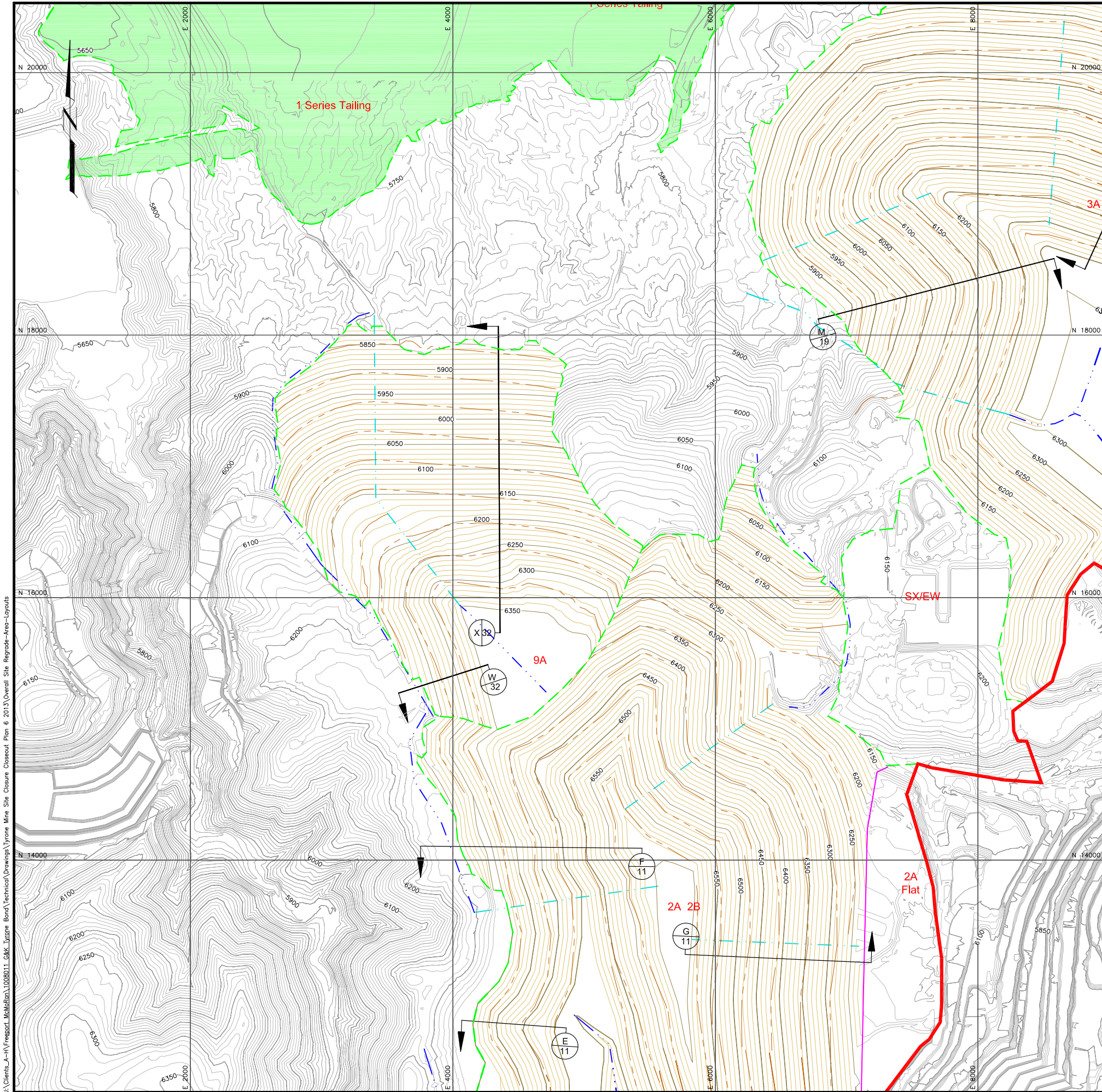


PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: No. 9A WASTE STOCKPILE 2014 CONFIGURATION



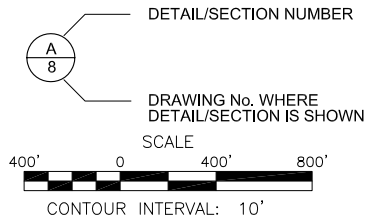
Sheet 29 Of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 29



KEY MAP

**LEGEND**

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- CHANNEL
- DOWN CHUTE CHANNEL
- SIDE SLOPE CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	05/13	T.Liedich	L.Moore	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

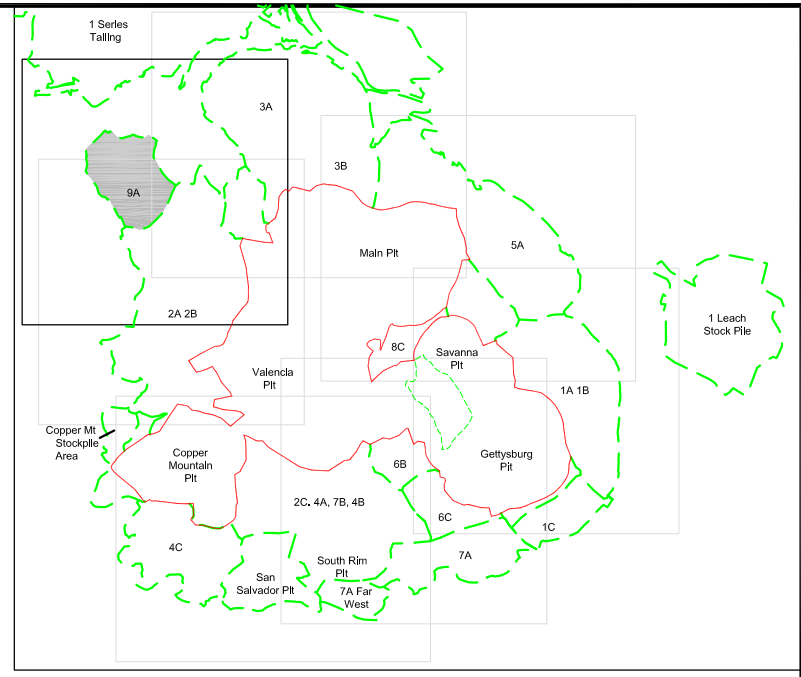
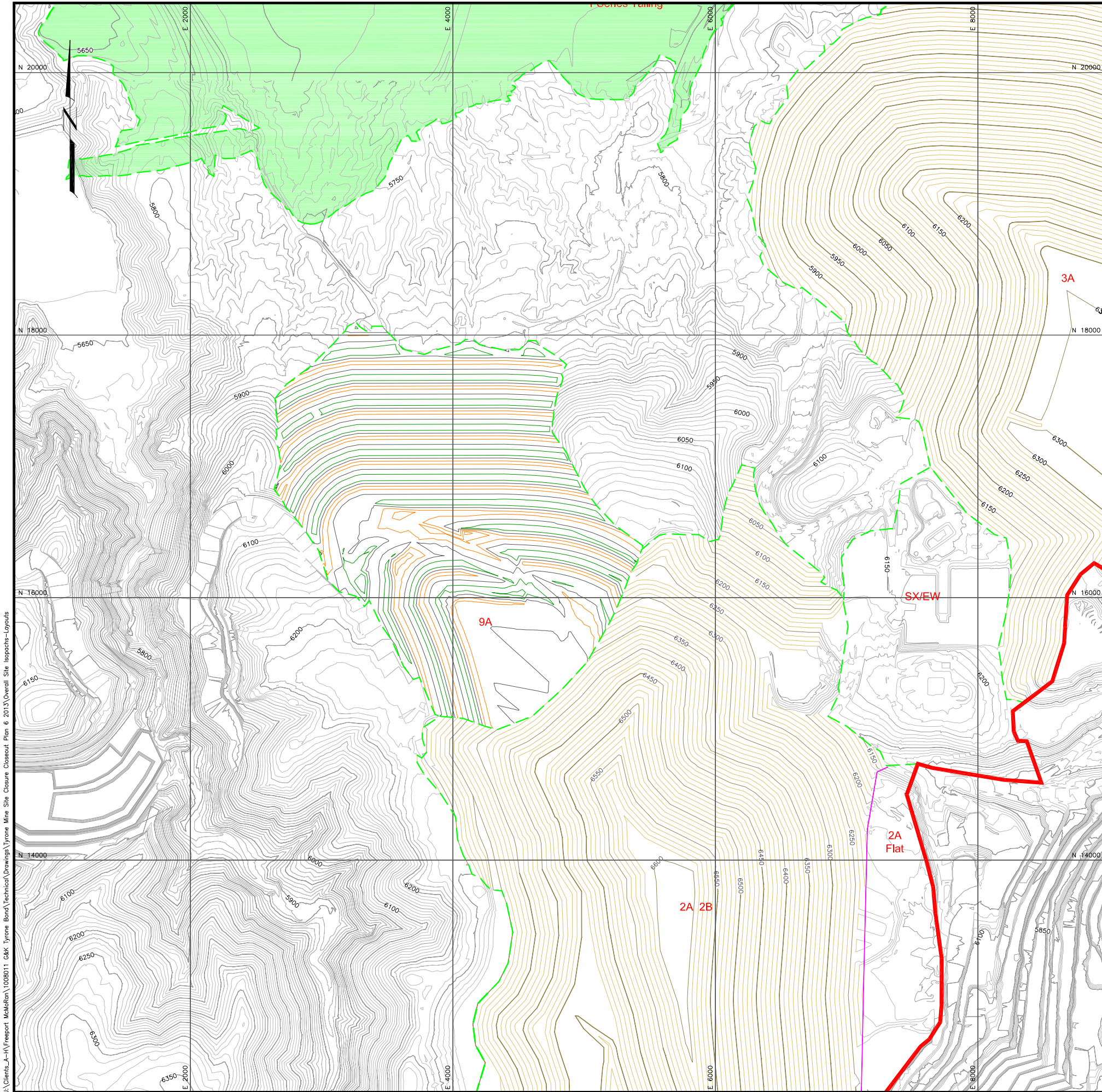


PROJECT: TYRONE MINE AREA RECLAMATION  
 DRAWING TITLE: No. 9A WASTE STOCKPILE GRADING & DRAINAGE PLAN












Sheet 30 of 34 Sheets  
 SCALE: 1"=400'  
 DRAWING No. 30

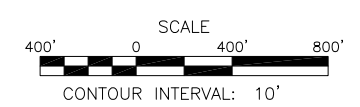
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KEY MAP

**LEGEND**

-  6250 EXISTING CONTOURS
-  6250 REGRADED CONTOURS
-  CONDITIONAL WAIVER AREA
-  RECLAMATION AREA
-  CUT ISOPACH
-  FILL ISOPACH
-  ZERO ELEVATION ISOPACH
-  INTERIOR FLAT AREA
-  RECLAIMED AREAS (2014)



1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY



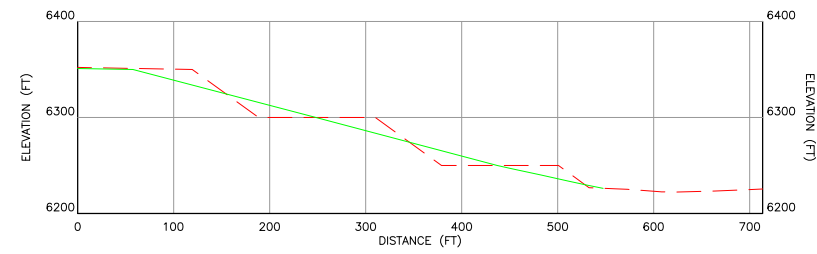
PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: No. 9A WASTE STOCKPILE CUT/FILL ISOPACH MAP

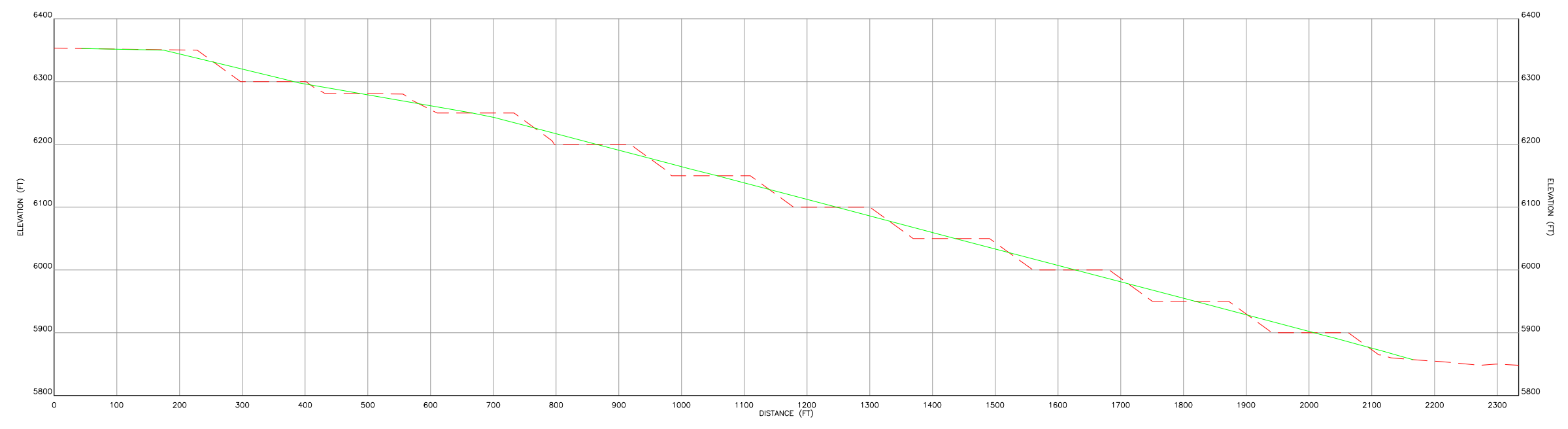


Sheet 31 of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 31

J:\Clients\_A\H\Freepor\_McMoRan\1008011\_G&K\_Tyrone\_Bond\Technical\Drawings\Tyrone Mine Site Closure\Crosscut\_Plan\_6\_2013\Overall\_Site\_Isopach-LAYOUTS



W  
30 AREA 9A - CROSS SECTION W



X  
30 AREA 9A - CROSS SECTION X

**LEGEND**

- - - EXISTING GROUND SURFACE
- REGRADE SURFACE
- DETAIL/SECTION NUMBER
- DRAWING No. WHERE DETAIL/SECTION IS SHOWN



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Leidich	
0	DRAFT	09/12	T.Liedich	J.Bever	



PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: No. 9A WASTE STOCKPILE - CROSS SECTIONS

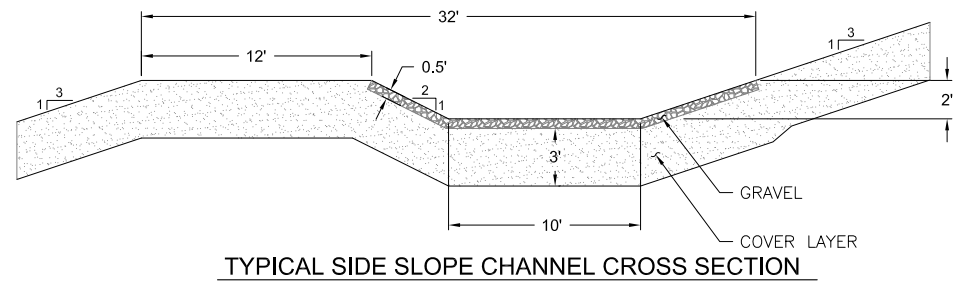


Sheet 32 of 34 Sheets  
SCALE: 1"=100'  
DRAWING No. 32

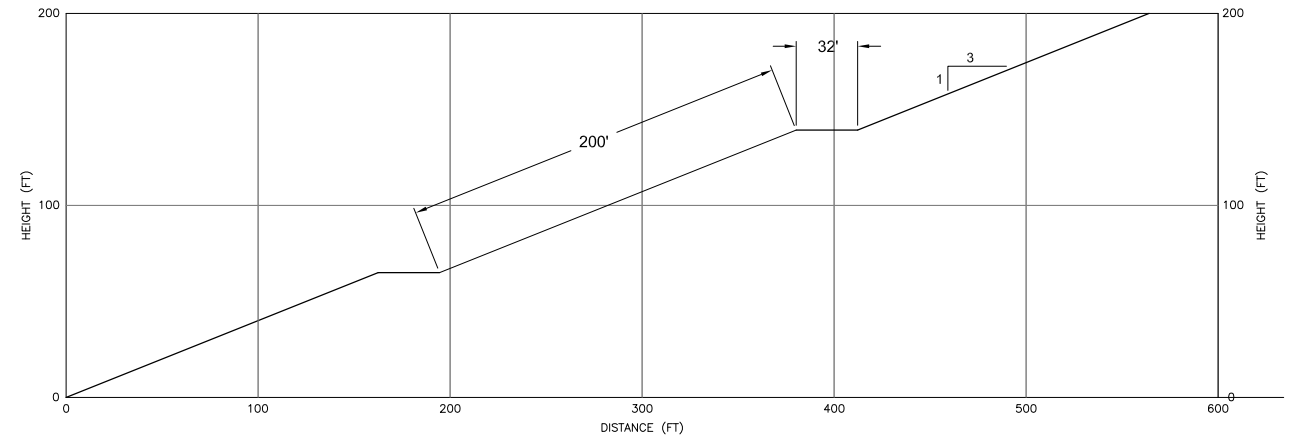
Note: The regrade surface shows the overall slope and does not show the terrace benches that will be constructed on inter-bench outslope angles of 3H:1V at slope lengths no greater than 200'. For the typical final slope configuration refer to Drawing No. 33

J:\clients\_e-a\freport\_mcmoran\1008011\_g&f\_tyronc\_bond\technical\Drawings\Tyronc\_mine\_site\_closure\_closout\_plan\_6\_2013\Overall\_Site\_Cross-Sections-Layouts\REV1

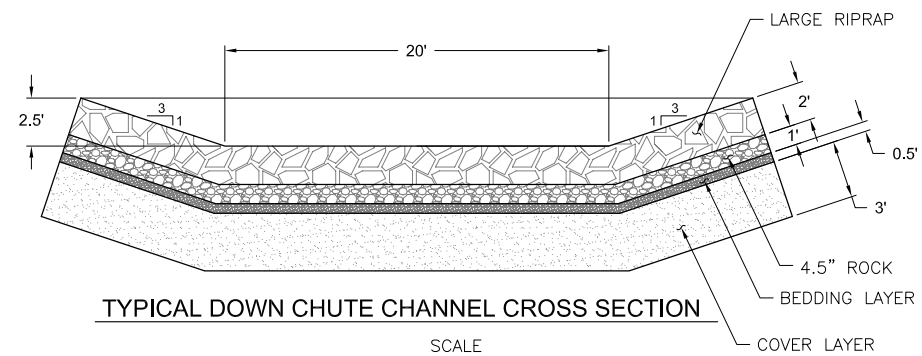
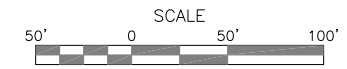




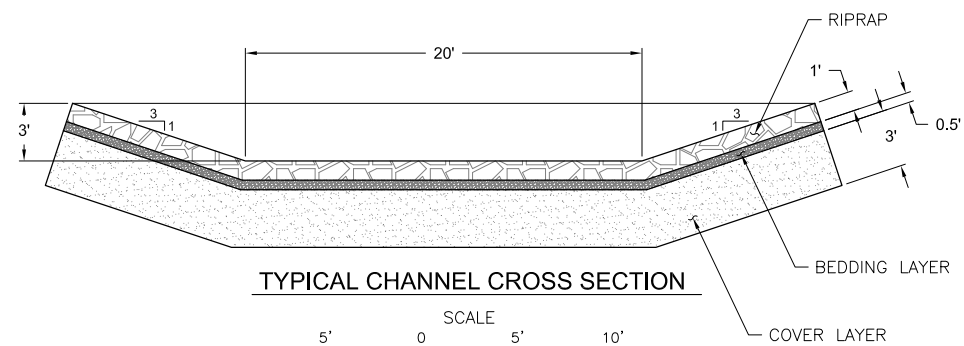
TYPICAL SIDE SLOPE CHANNEL CROSS SECTION



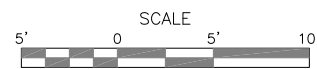
TYPICAL SLOPE CONFIGURATION



TYPICAL DOWN CHUTE CHANNEL CROSS SECTION



TYPICAL CHANNEL CROSS SECTION



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	06/13	T.Liedich	T.Liedich	
0	DRAFT	09/12	T.Liedich	J.Bever	

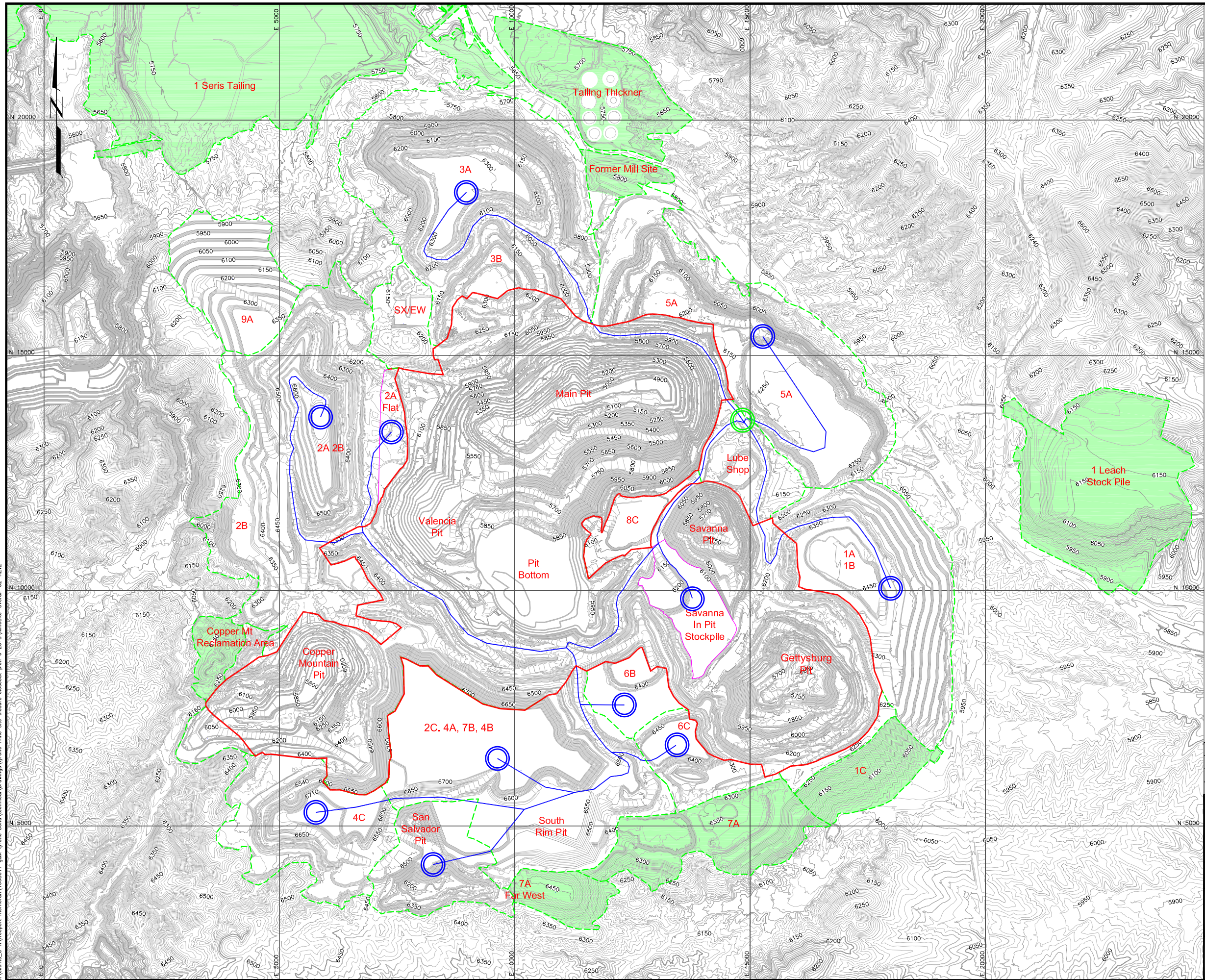


PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: DRAINAGE DETAILS

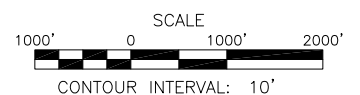


Sheet 33 of 34 Sheets  
SCALE: AS SHOWN DRAWING No. 33



**LEGEND**

- 6250 EXISTING CONTOURS
- CONDITIONAL WAIVER AREA
- RECLAMATION AREA
- INTERIOR FLAT AREA
- MINE HAUL ROAD
- CENTROID OF RECLAMATION AREA
- CENTER OF BORROW AREA
- RECLAIMED AREAS (2014)



REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	ISSUED FOR BOND CALCULATION	05/13	T.Liedich	L.Moore	
0	DRAFT	09/12	T.Liedich	J.Bever	



PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: HAUL ROUTE MAP



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