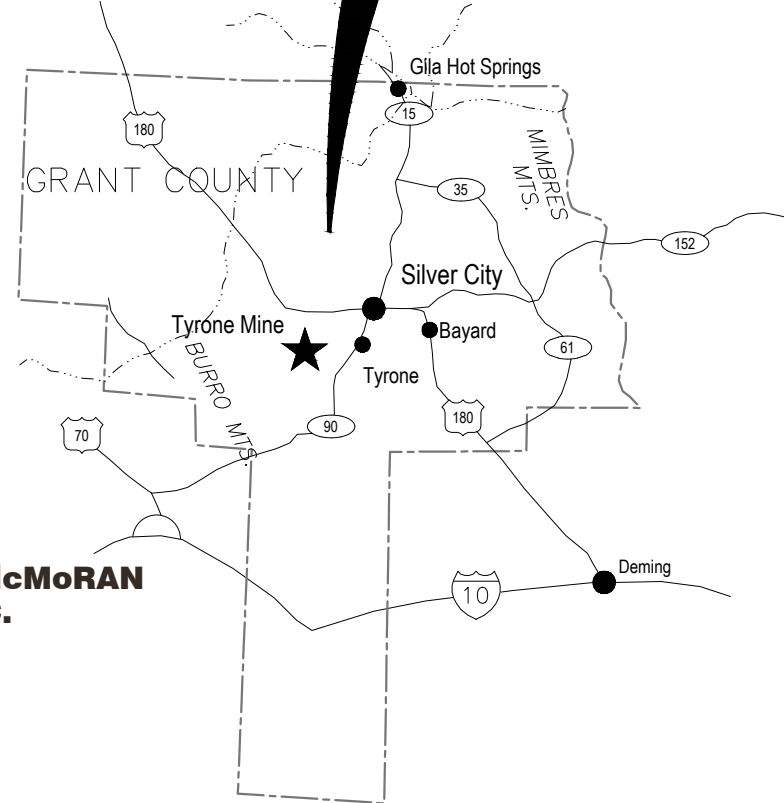
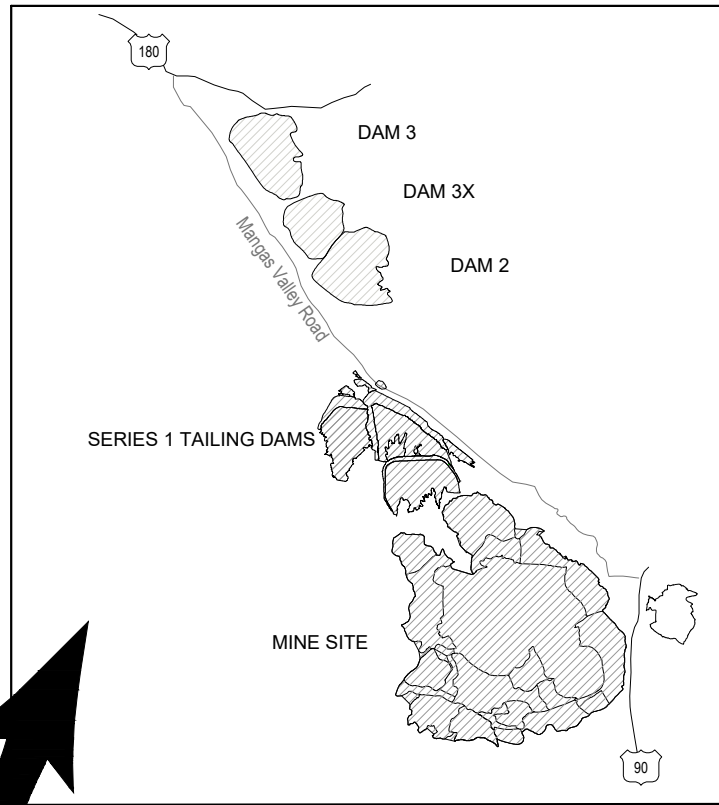


APPENDIX A  
TYRONE MINE SITE CLOSURE CLOSEOUT PLAN

April 2020  
Rev. 3- Revised Client Comments

LIST OF DRAWINGS

DRAWING NO.	DRAWING TITLE
1.	COVER SHEET
2.	MINE SITE - OVERALL
3.	OVERALL GRADING SITE PLAN
4.	1A LEACH, 1B LEACH AND RECLAIMED 1C WASTE
5.	1A LEACH, 1B LEACH AND RECLAIMED 1C WASTE - GRADING AND DRAINAGE PLAN
6.	1A LEACH, 1B LEACH AND RECLAIMED 1C WASTE - CUT/FILL ISOPACH MAP
7.	1A LEACH, 1B LEACH AND RECLAIMED 1C WASTE - CROSS SECTIONS
8.	2A LEACH, 2B LEACH AND 2B WASTE
9.	2A LEACH, 2B LEACH AND 2B WASTE - GRADING AND DRAINAGE PLAN
10.	2A LEACH, 2B LEACH AND 2B WASTE - CUT/FILL ISOPACH MAP
11.	2A LEACH, 2B LEACH AND 2B WASTE - CROSS SECTIONS
12.	2 LEACH (AREAS 1 AND 2), 7B LEACH, 7B WASTE, 7C WASTE AND SAN SALVADOR WASTE BACKFILL
13.	2 LEACH (AREAS 1 AND 2), 7B LEACH, 7B WASTE, 7C WASTE AND SAN SALVADOR WASTE BACKFILL - GRADING AND DRAINAGE PLAN
14.	2 LEACH (AREAS 1 AND 2), 7B LEACH, 7B WASTE, 7C WASTE AND SAN SALVADOR WASTE BACKFILL - CUT/FILL ISOPACH MAP
15.	2 LEACH (AREAS 1 AND 2), 7B LEACH, 7B WASTE, 7C WASTE AND SAN SALVADOR WASTE BACKFILL - CROSS SECTIONS
16.	3A LEACH AND 3B WASTE STOCKPILES
17.	3A LEACH AND 3B WASTE STOCKPILES - GRADING AND DRAINAGE PLAN
18.	3A LEACH AND 3B WASTE STOCKPILES - CUT/FILL ISOPACH MAP
19.	3A LEACH AND 3B WASTE STOCKPILES - CROSS SECTIONS - 1
20.	3A LEACH AND 3B WASTE STOCKPILES - CROSS SECTIONS - 2
21.	5A WASTE
22.	5A WASTE - GRADING AND DRAINAGE PLAN
23.	5A WASTE - CUT/FILL ISOPACH MAP
24.	5A WASTE - CROSS SECTIONS
25.	6A LEACH, 6B LEACH, 6C LEACH AND 6D LEACH
26.	6A LEACH, 6B LEACH, 6C LEACH AND 6D LEACH - GRADING AND DRAINAGE
27.	6A LEACH, 6B LEACH, 6C LEACH AND 6D LEACH - CUT/FILL ISOPACH MAP
28.	6A LEACH, 6B LEACH, 6C LEACH AND 6D LEACH - CROSS SECTIONS
29.	9A WASTE AND 9AX WASTE
30.	9A WASTE AND 9AX WASTE - GRADING AND DRAINAGE
31.	9A WASTE AND 9AX WASTE - CUT/FILL ISOPACH MAP
32.	9A WASTE AND 9AX WASTE- CROSS SECTIONS
33.	DRAINAGE DETAILS
34.	HAUL ROUTE MAP

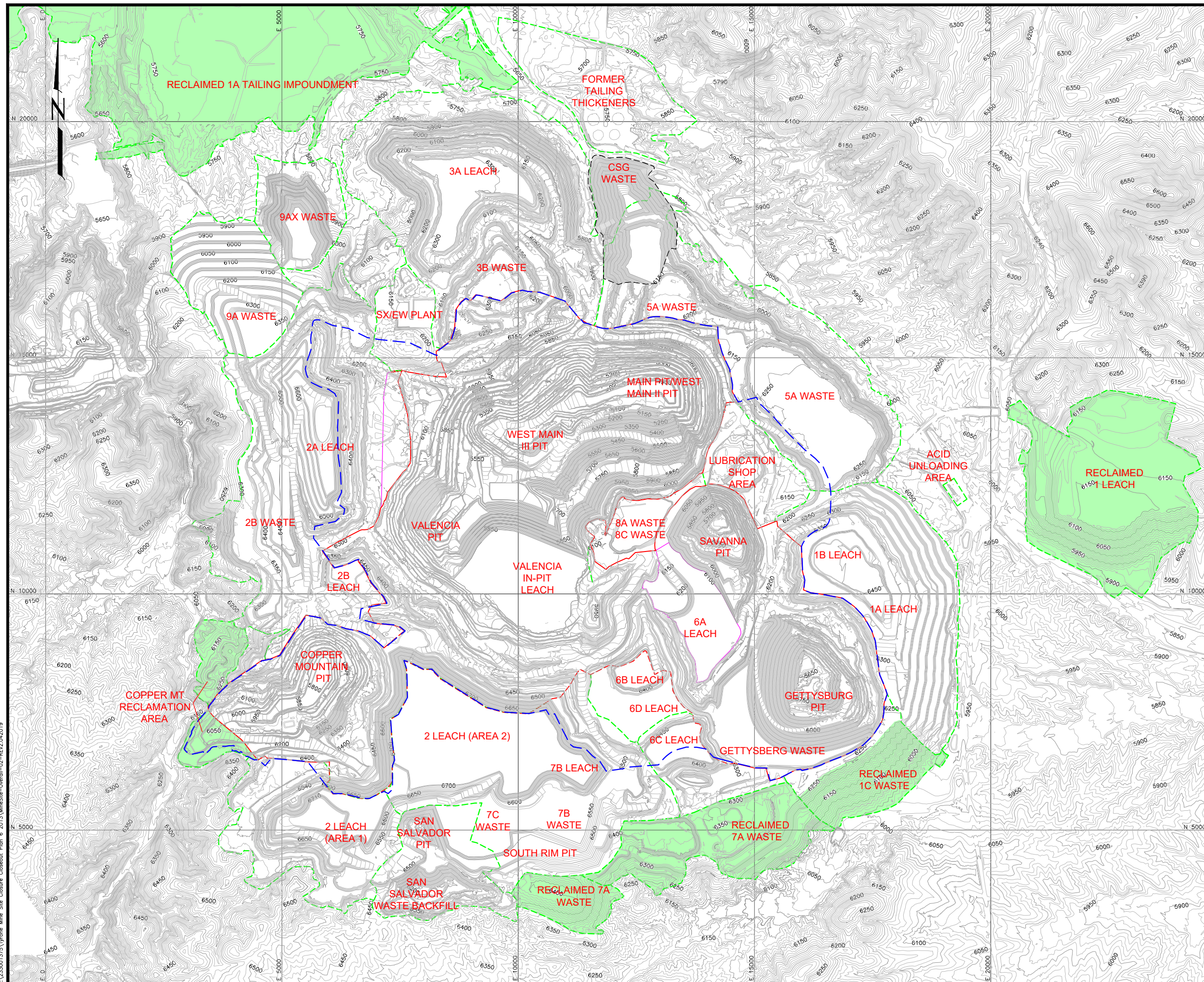


PREPARED FOR:  
**Fm** **FREEPORT-McMoRAN**  
**TYRONE, INC.**

PREPARED BY:  
**Stantec**  
DENVER, CO

U:\213001375\Tyrone Mine Site Closure Closeout Plan 6 2013\Cover-Sheet-01-REV1 042019



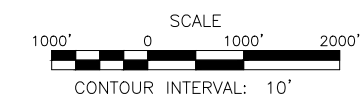


## LEGEND

- 
- |  |      |   |
|--|------|---|
|  | 6250 | EXISTING CONTOURS   |
|  |      | 2013 CONDITIONAL WAIVER AREA  |
|  |      | REVISED CONDITIONAL WAIVER AREA<br>(based on 2014 mine configuration) |
|  |      | RECLAMATION AREA  |
|  |      | INTERIOR FLAT AREA  |
|  |      | RECLAIMED AREAS (2019)  |
|  |      | CSG LIMITS  |
|  |      | REVISED OPSDA<br>(based on 2014 mine configuration)                   |

NOTES:

1. THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
2. FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
3. THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T. LEIDICH		
2	REVISED BOND CALCULATIONS	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED BY	AND BY



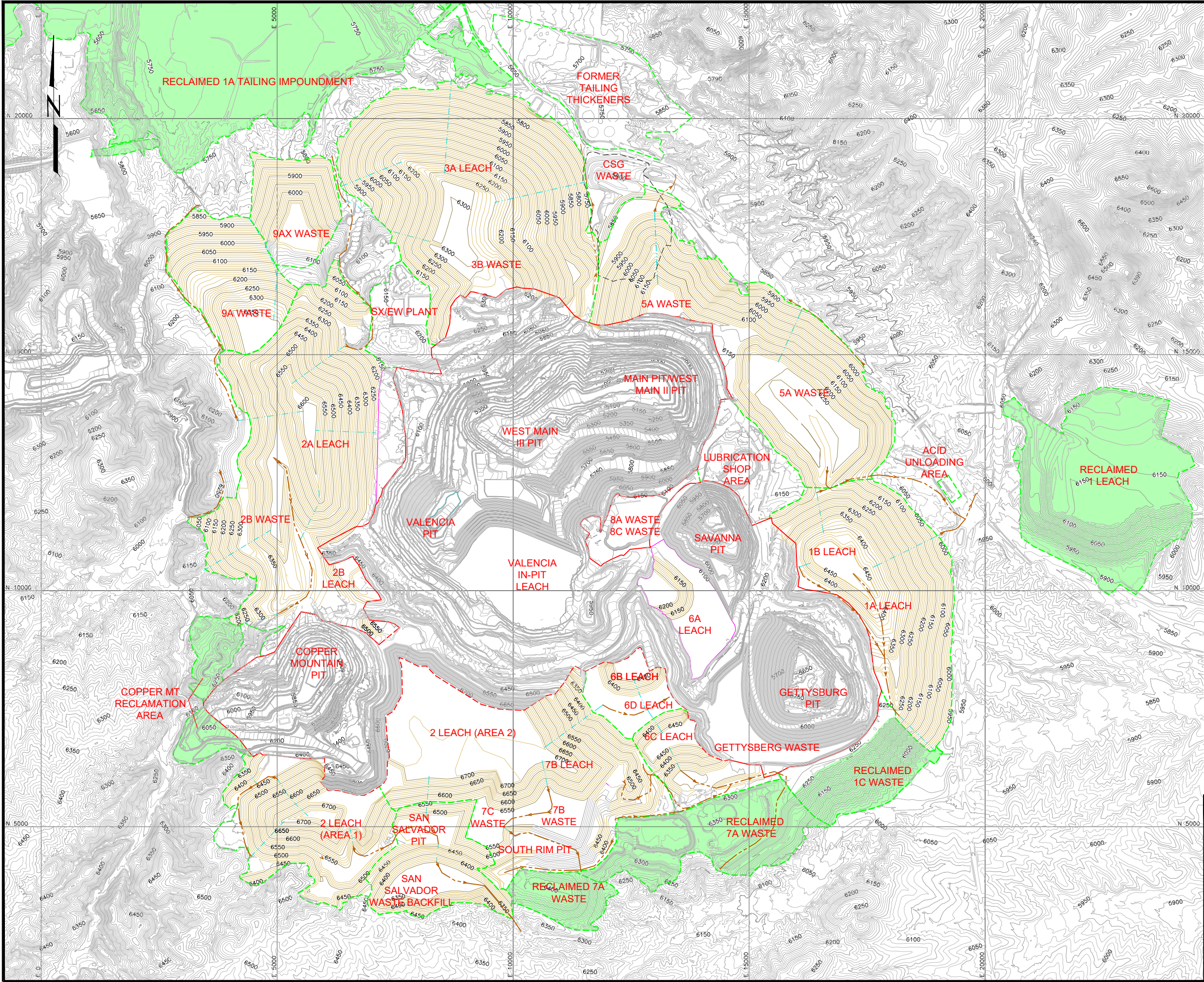
PROJECT: *TYRONE MINE AREA RECLAMATION*

DRAWING TITLE: *MINE SITE - OVERALL*



Sheet <u>2</u> Of <u>34</u> Sheets	
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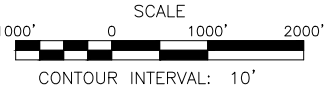




LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- INTERIOR FLAT AREAS
- BENCH CHANNEL
- DOWNDRAIN
- CSG LIMITS
- RECLAIMED AREAS (2019)

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATIONS	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	8/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

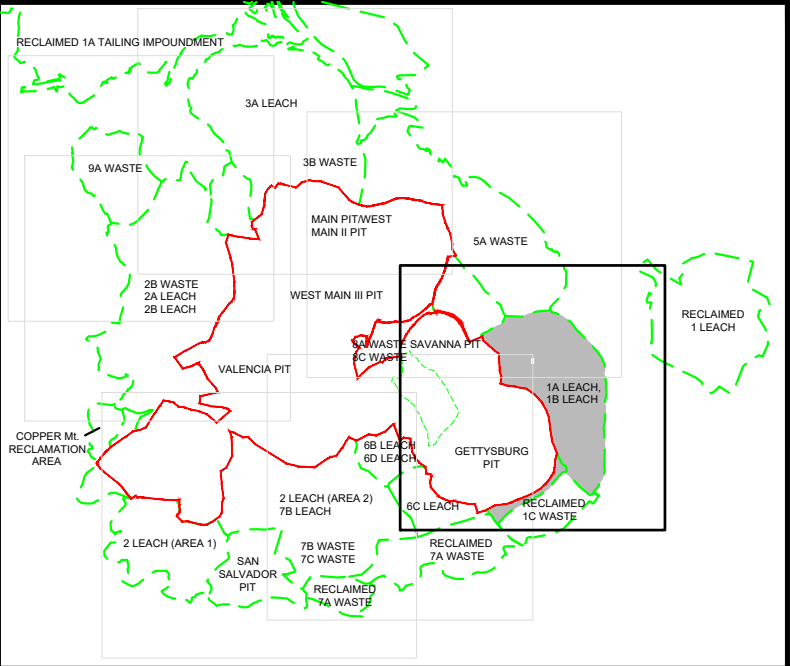
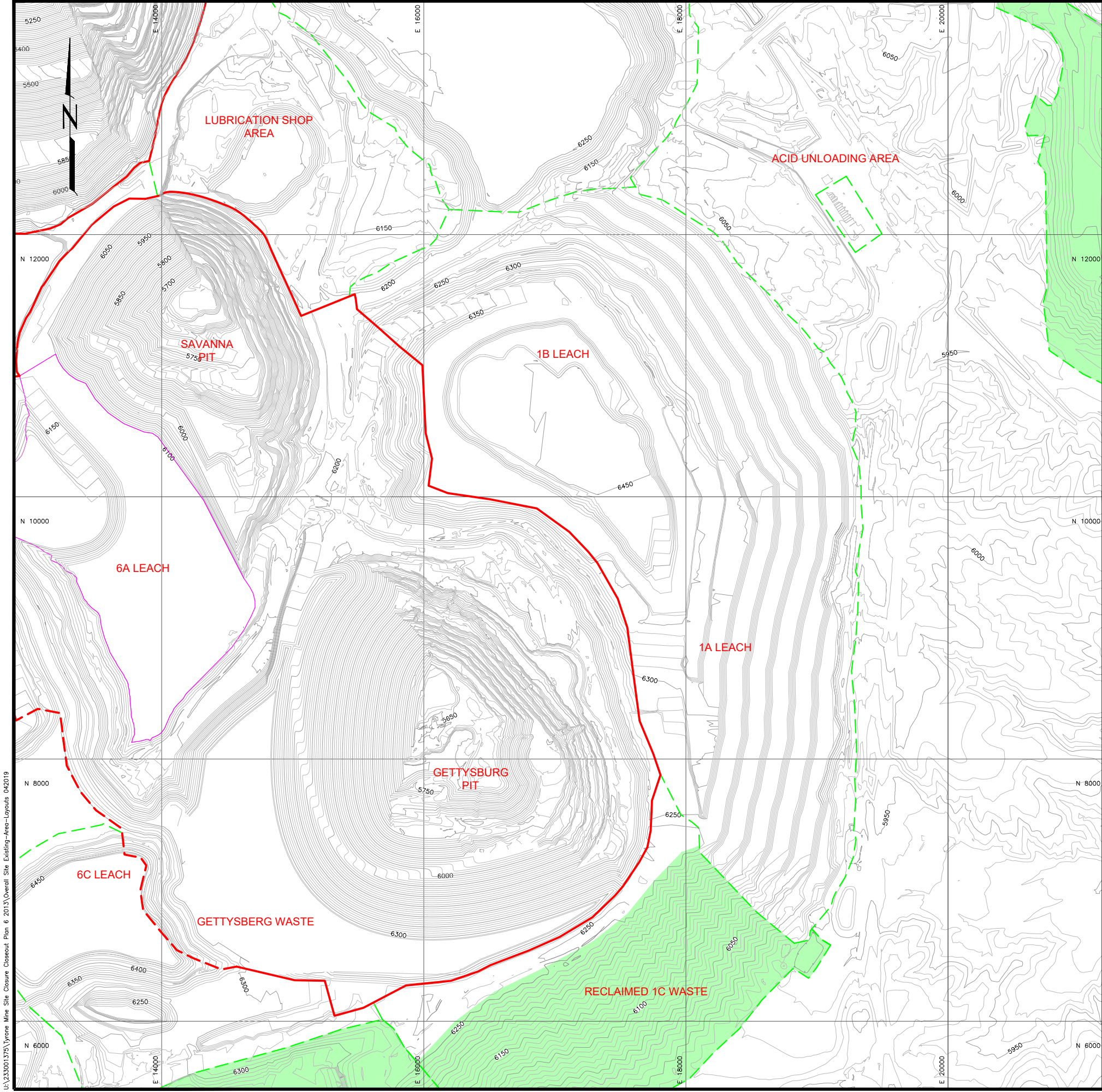


PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: OVERALL GRADING SITE PLAN





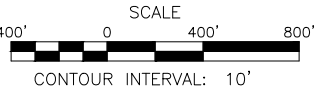


KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)
- CSG LIMITS

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	05/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

**FREEPORT-McMoRAN TYRONE, INC.**

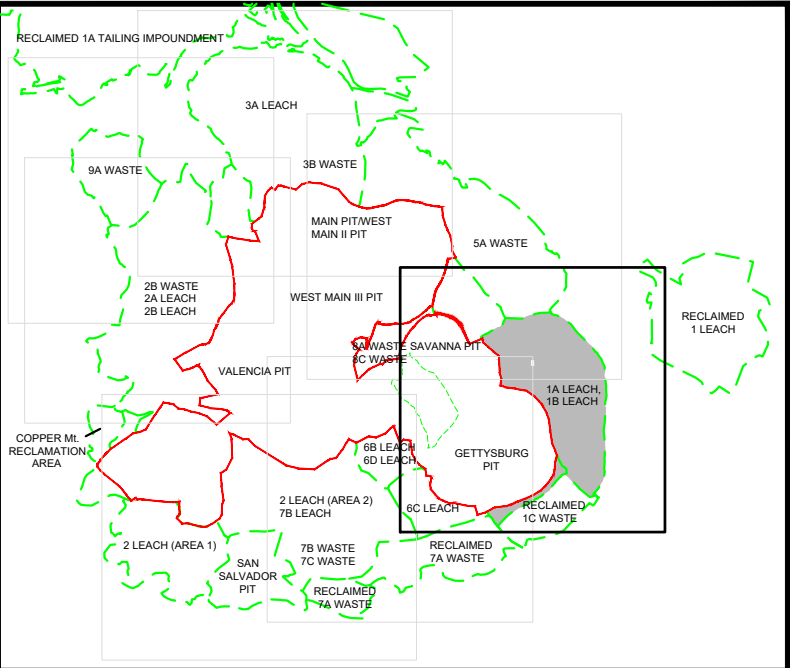
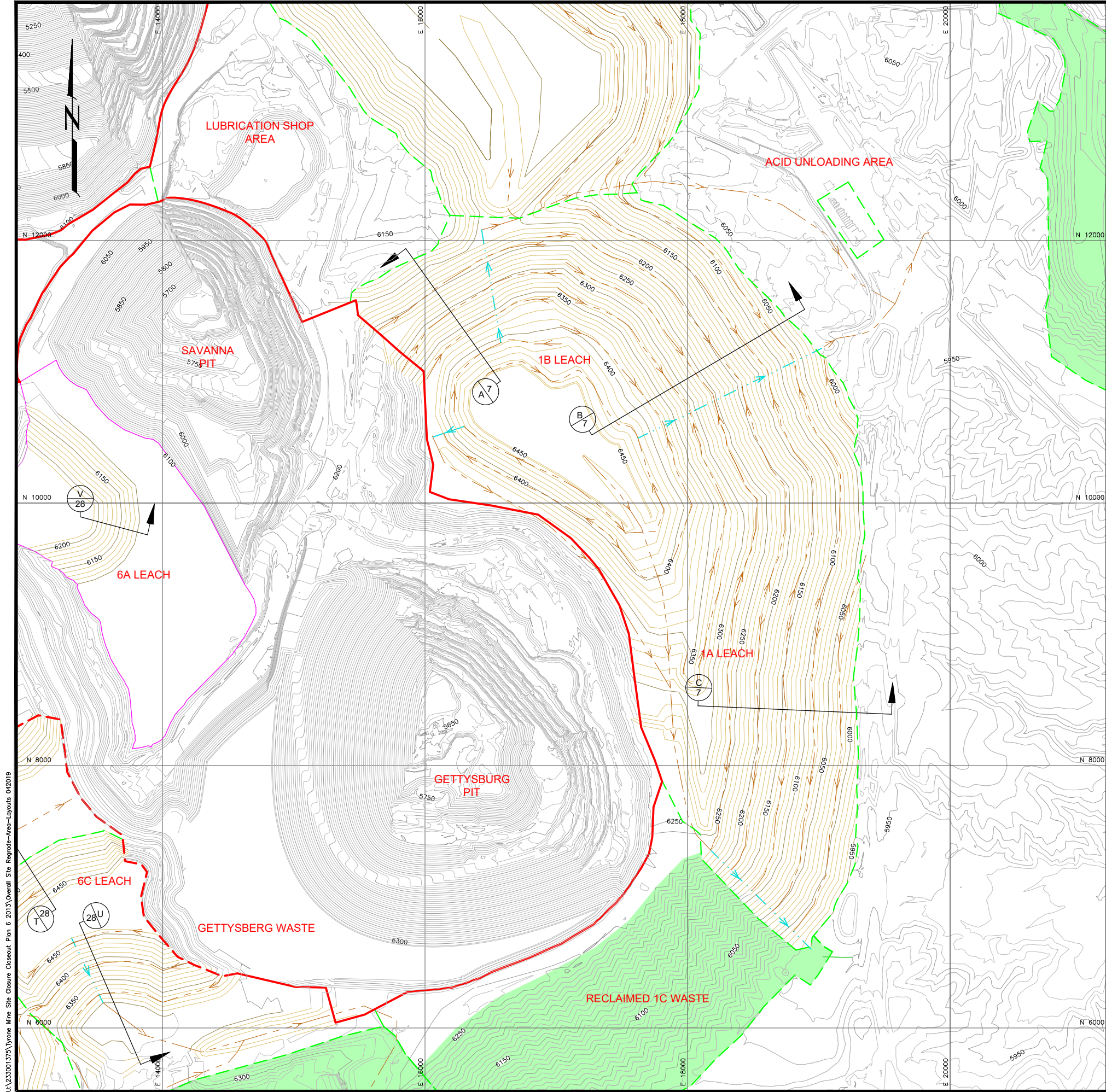
PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: 1A LEACH, 1B LEACH AND RECLAIMED 1C WASTE



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



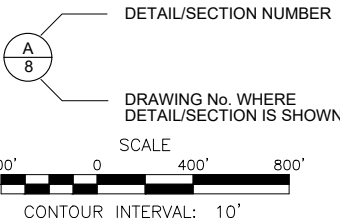


KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CSG LIMITS
- DOWNDRAIN
- BENCH CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



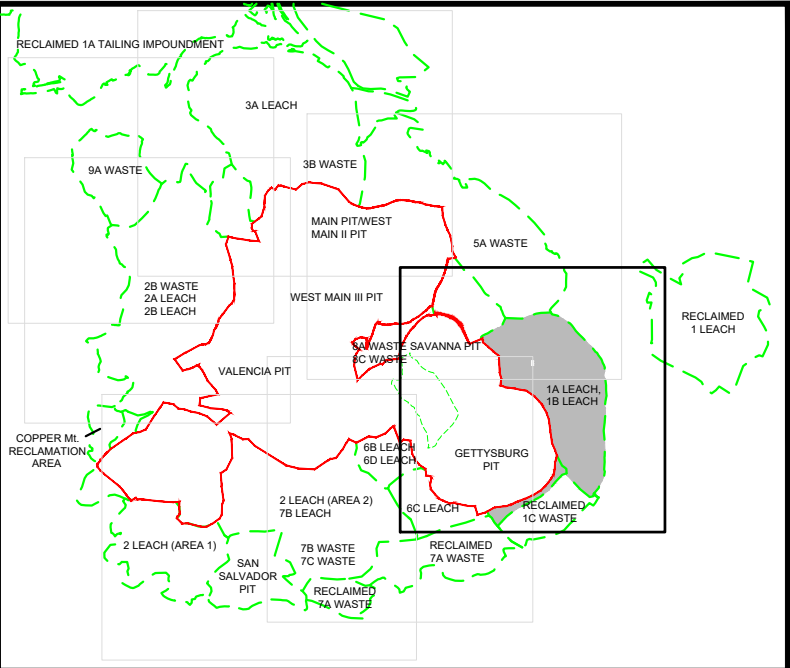
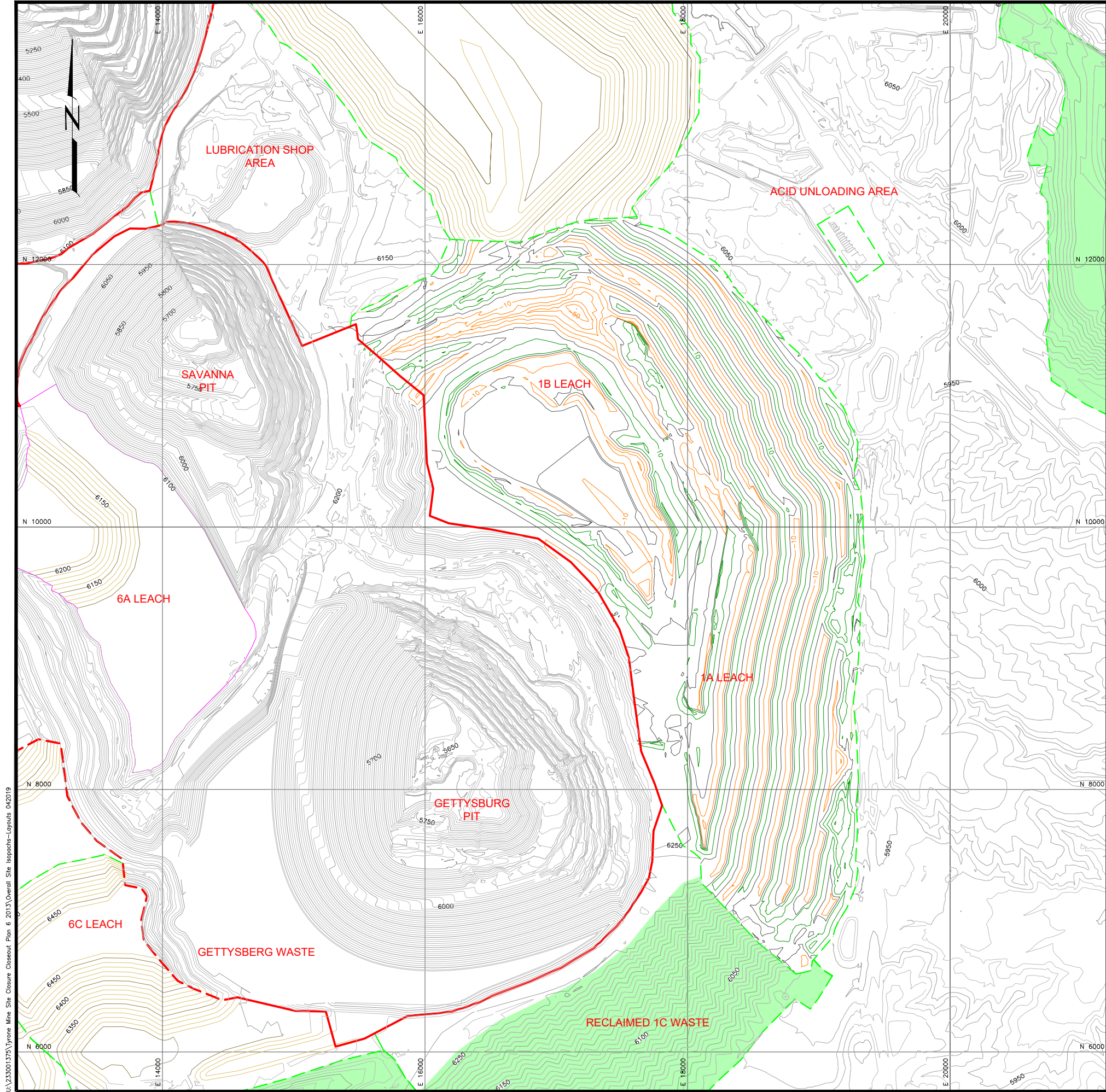
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DRAWING TITLE: 1A LEACH, 1B LEACH AND RECLAIMED 1C WASTE GRADING AND DRAINAGE PLAN



Sheet 5 Of 34 Sheets  
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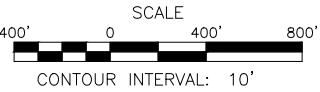




KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- CSG LIMITS
- RECLAIMED AREAS (2019)



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

**FREEPORT-McMoRAN**  
**TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**

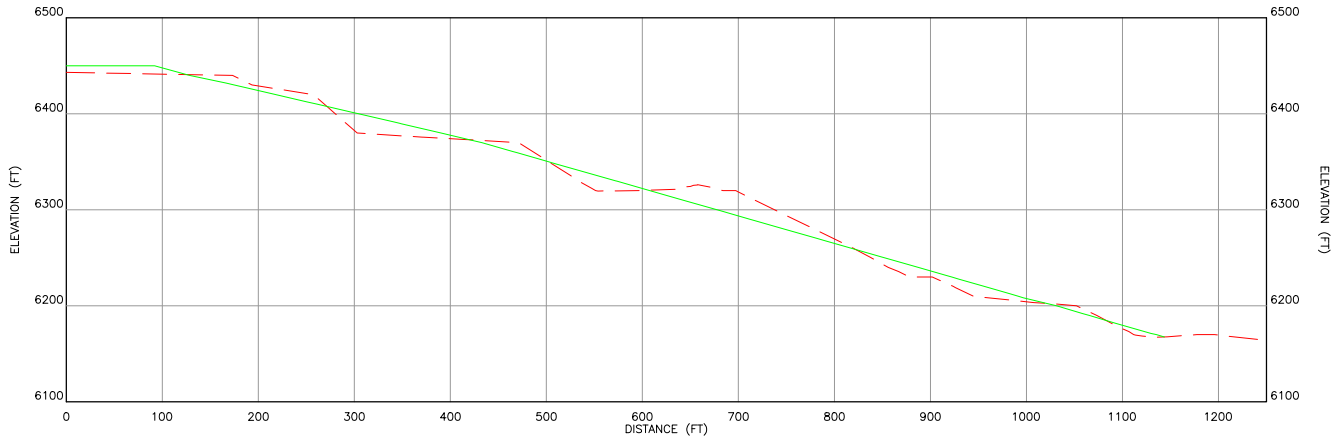
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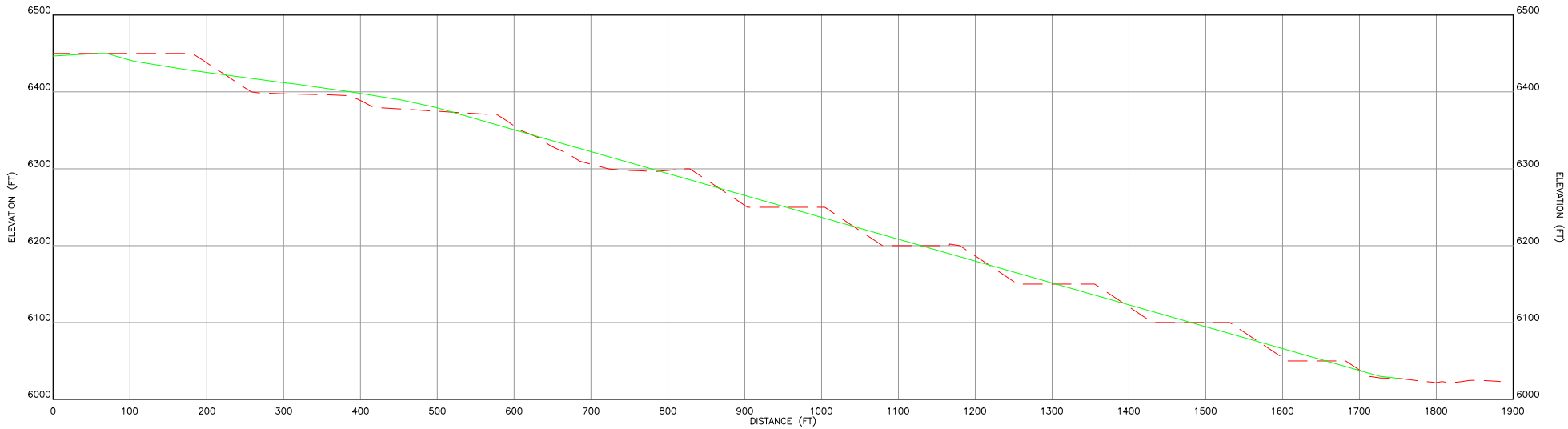
Sheet 6 Of 34 Sheets  
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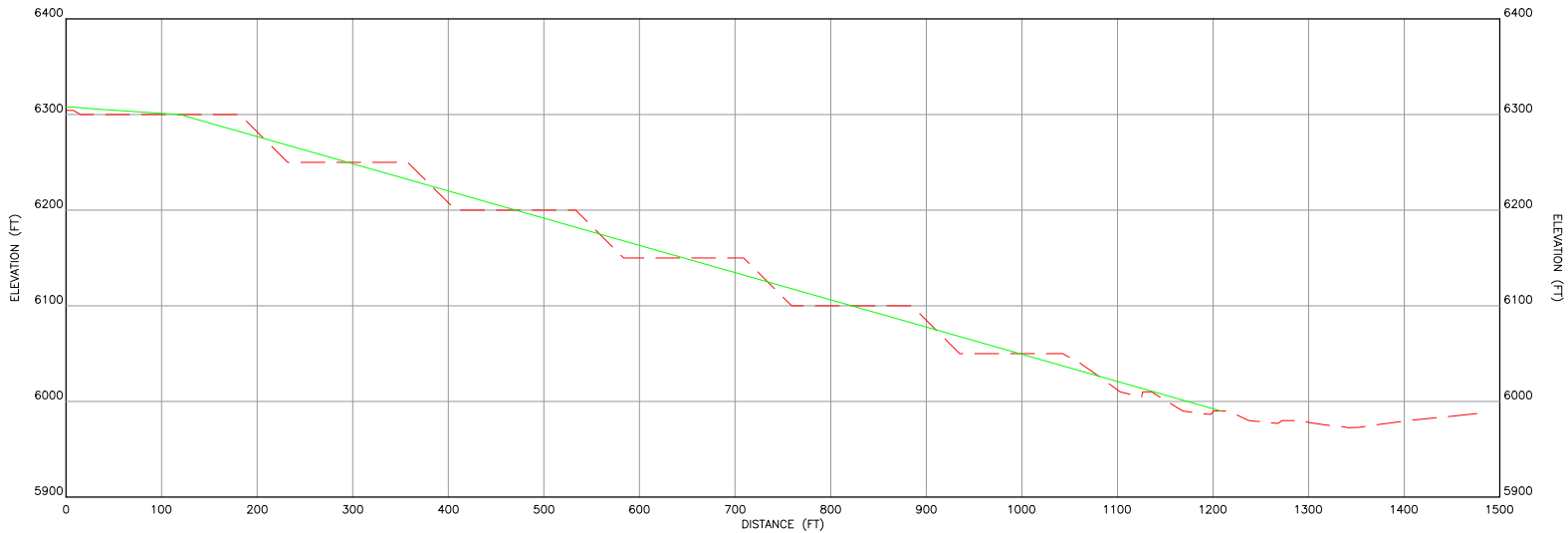
U:\233001\375\Tyronne Mine Site Closure Checklist Plan & 2013\Overall Site Cross-Sections-LayoutrREV1 042019



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





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



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

## LEGEND

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



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	06/13	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



**FREEPORT-McMoRAN**  
**TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE:  
**1A LEACH, 1B LEACH AND RECLAIMED  
1C WASTE - CROSS SECTIONS**

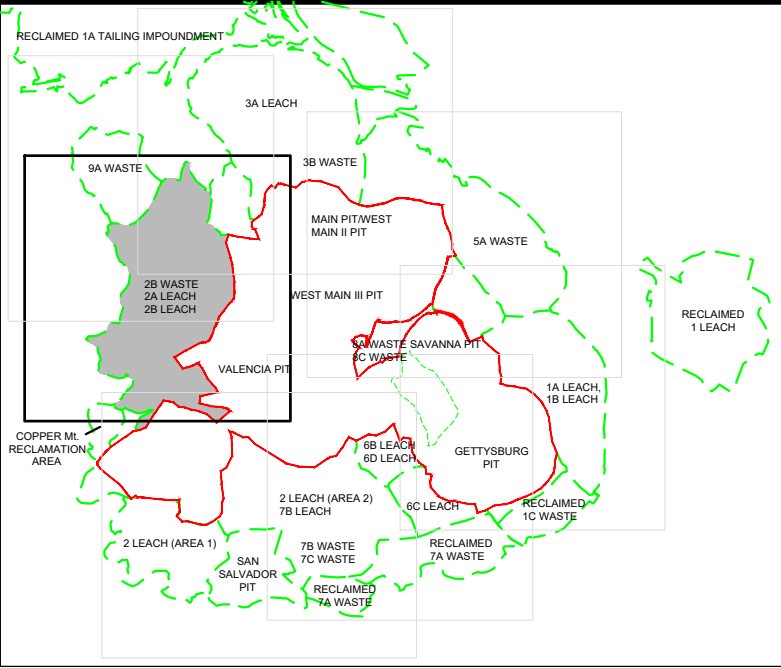
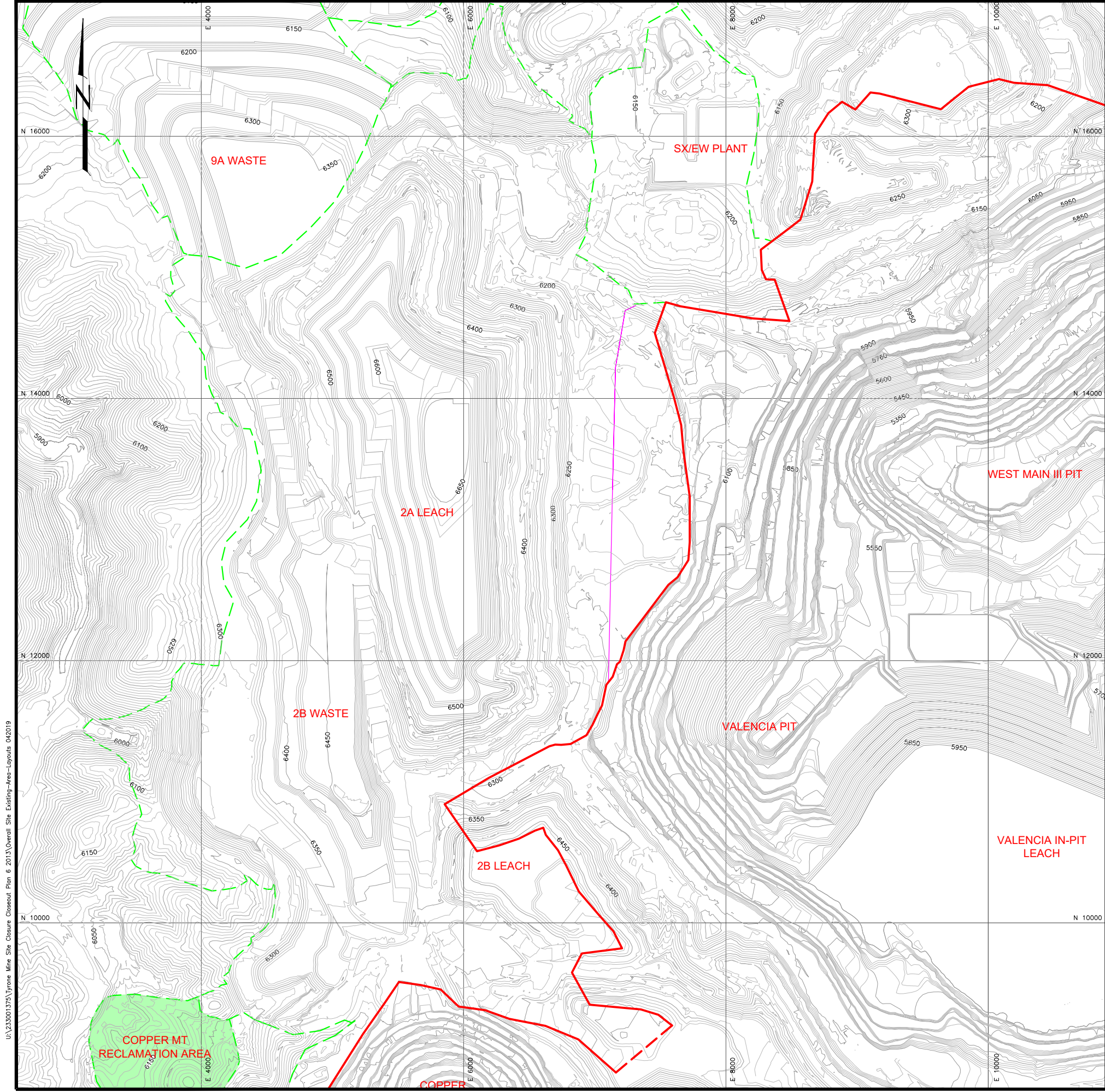


**Stantec**

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



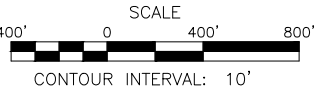


KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)
- CSG LIMITS

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
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  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

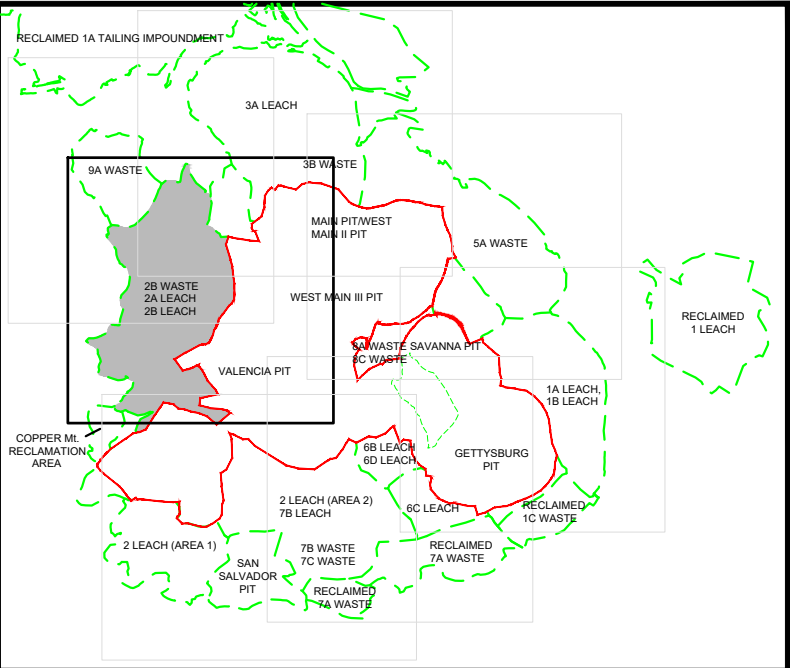
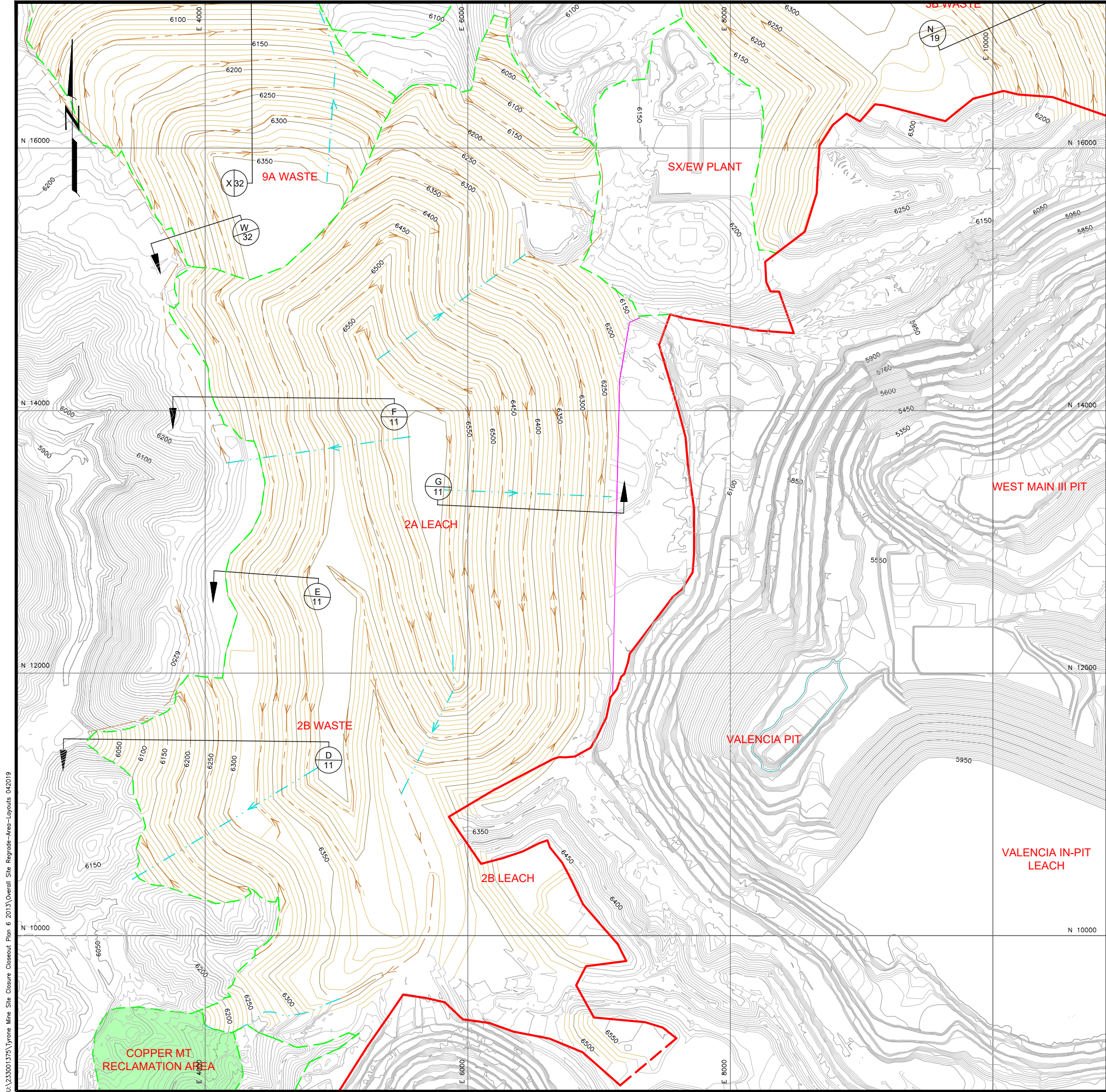
**FREEPORT-McMoRAN**  
**TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**  
DRAWING TITLE: **2A LEACH, 2B LEACH AND 2B WASTE**



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



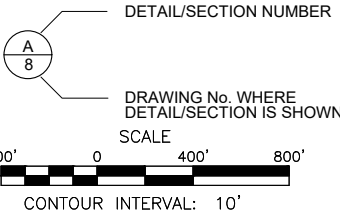


KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CSG LIMITS
- DOWNDRAIN
- BENCH CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)

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  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



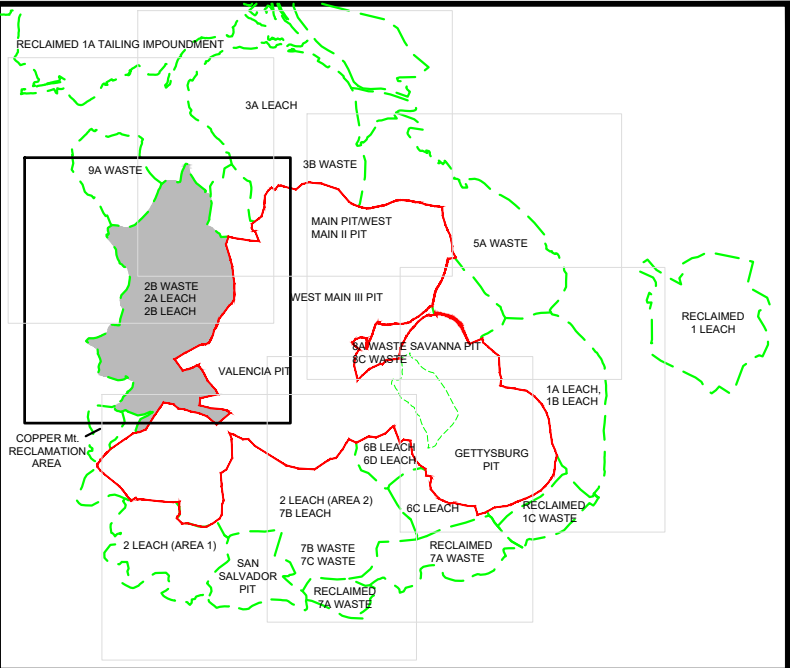
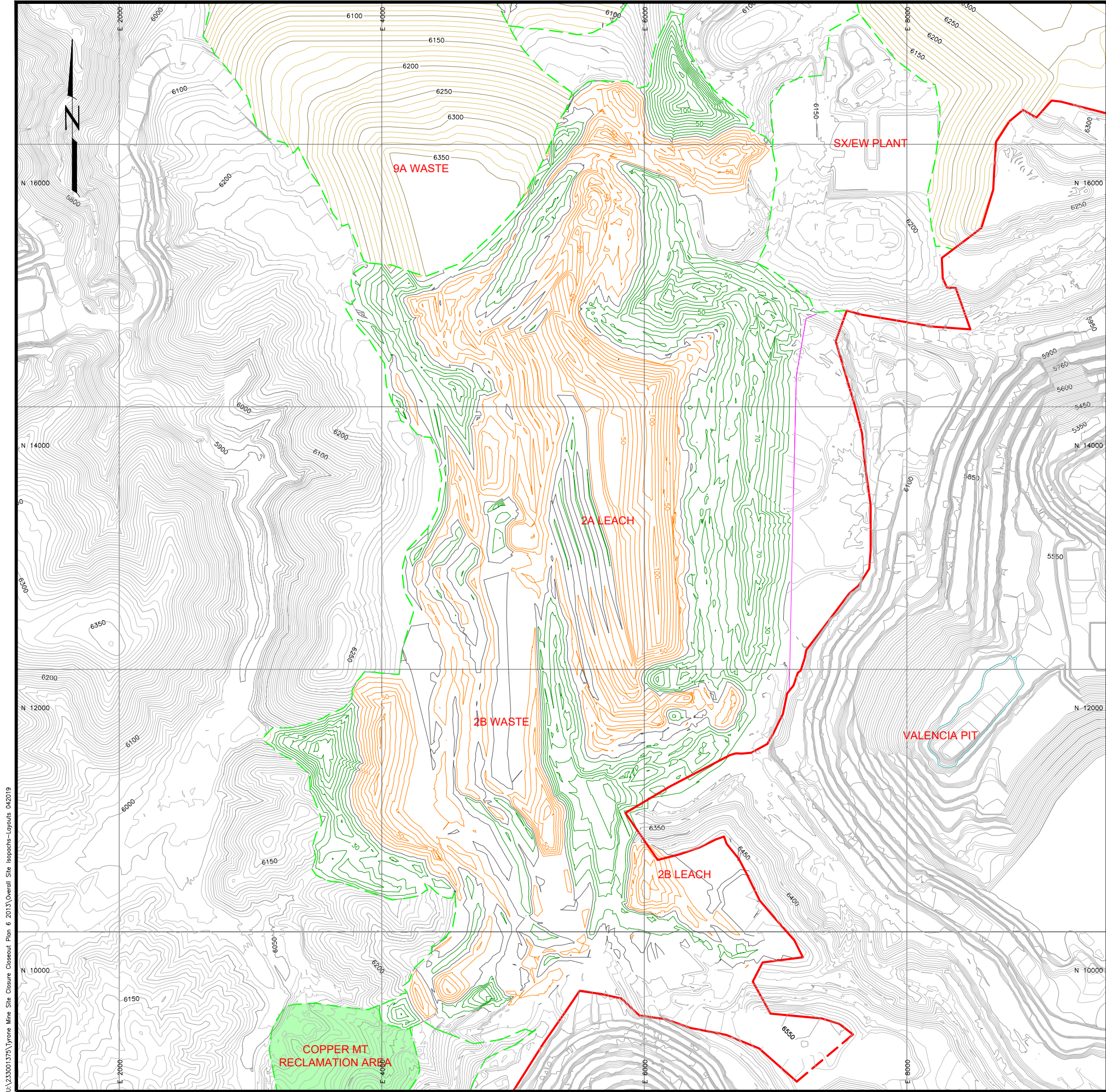
PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: 2A LEACH, 2B LEACH AND 2B WASTE GRADING AND DRAINAGE PLAN



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

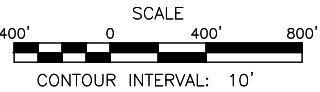




KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- CSG LIMITS
- RECLAIMED AREAS (2019)



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

**FREEPORT-McMoRAN TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE: **2A LEACH, 2B LEACH AND 2B WASTE CUT/FILL ISOPACH MAP**

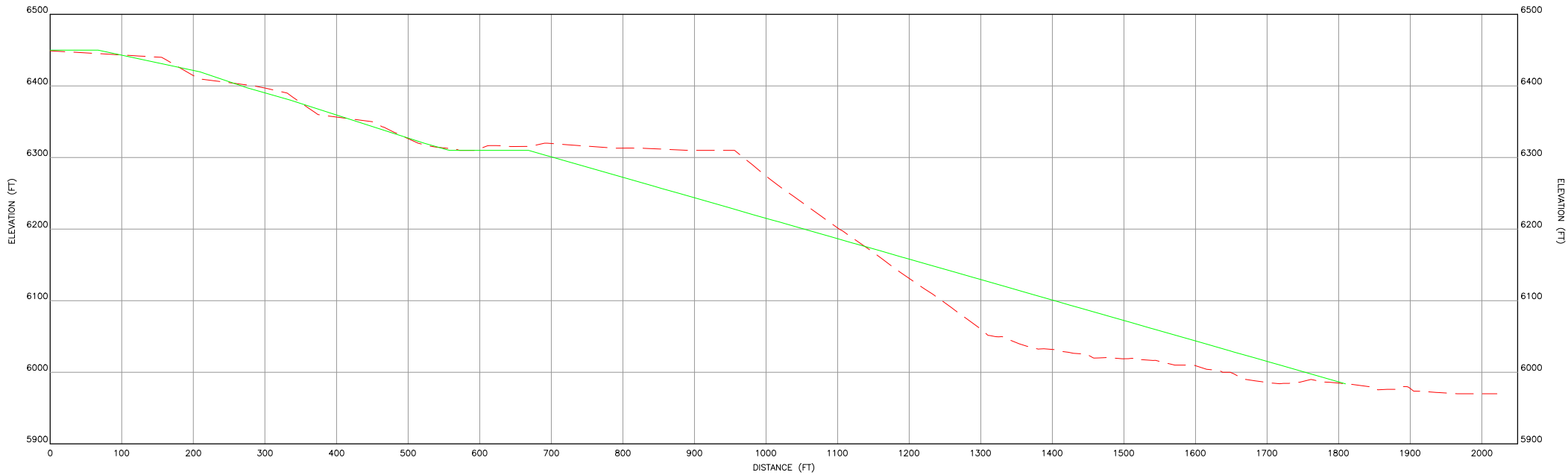


Sheet 10 Of 34 Sheets

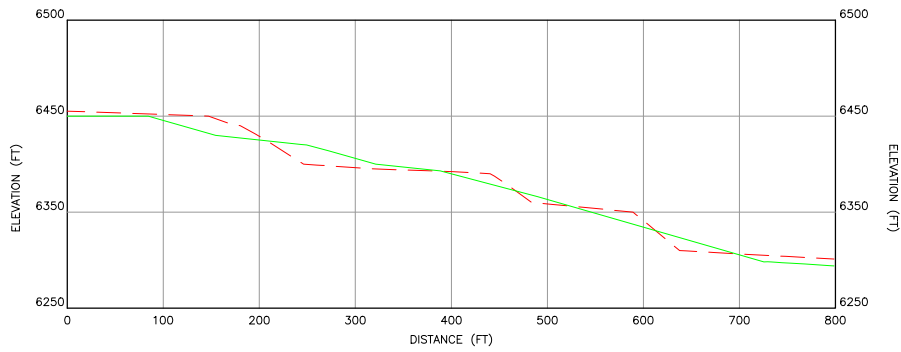
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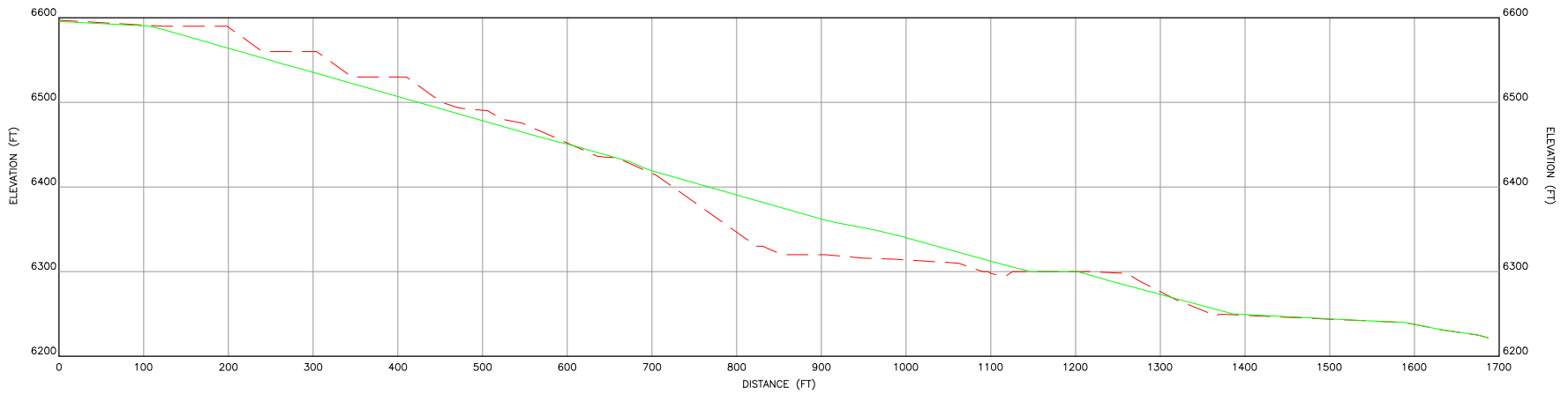
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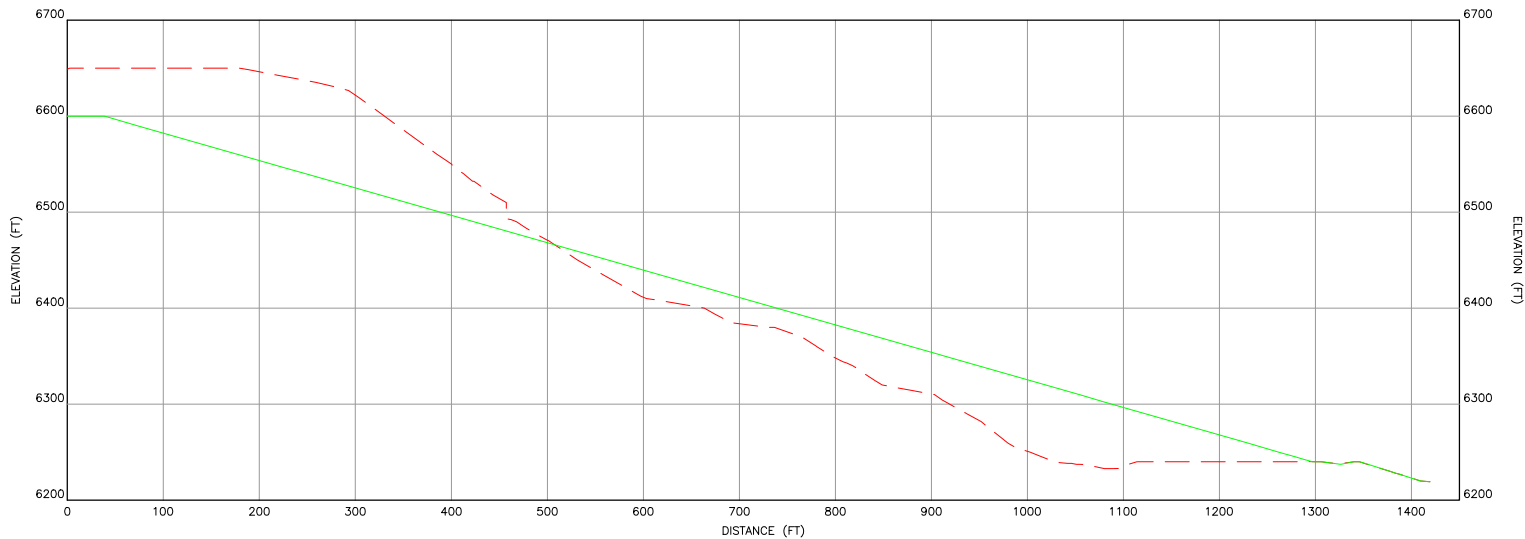
**D**  
9 AREA 2B WASTE - CROSS SECTION D



**E**  
9 AREA 2B WASTE - CROSS SECTION D





**F**  
9 AREA 2A LEACH - CROSS SECTION D



**G**  
9 AREA 2A LEACH - CROSS SECTION D

## LEGEND

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



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	06/13	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

**FREEPORT-McMoRAN**  
**TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE: **2A LEACH, 2B LEACH AND 2B WASTE CROSS SECTIONS**

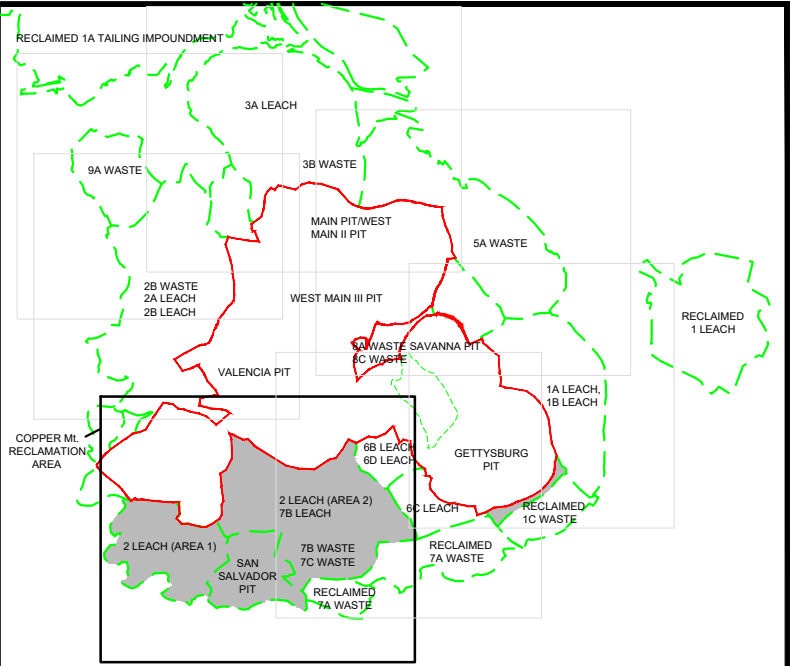
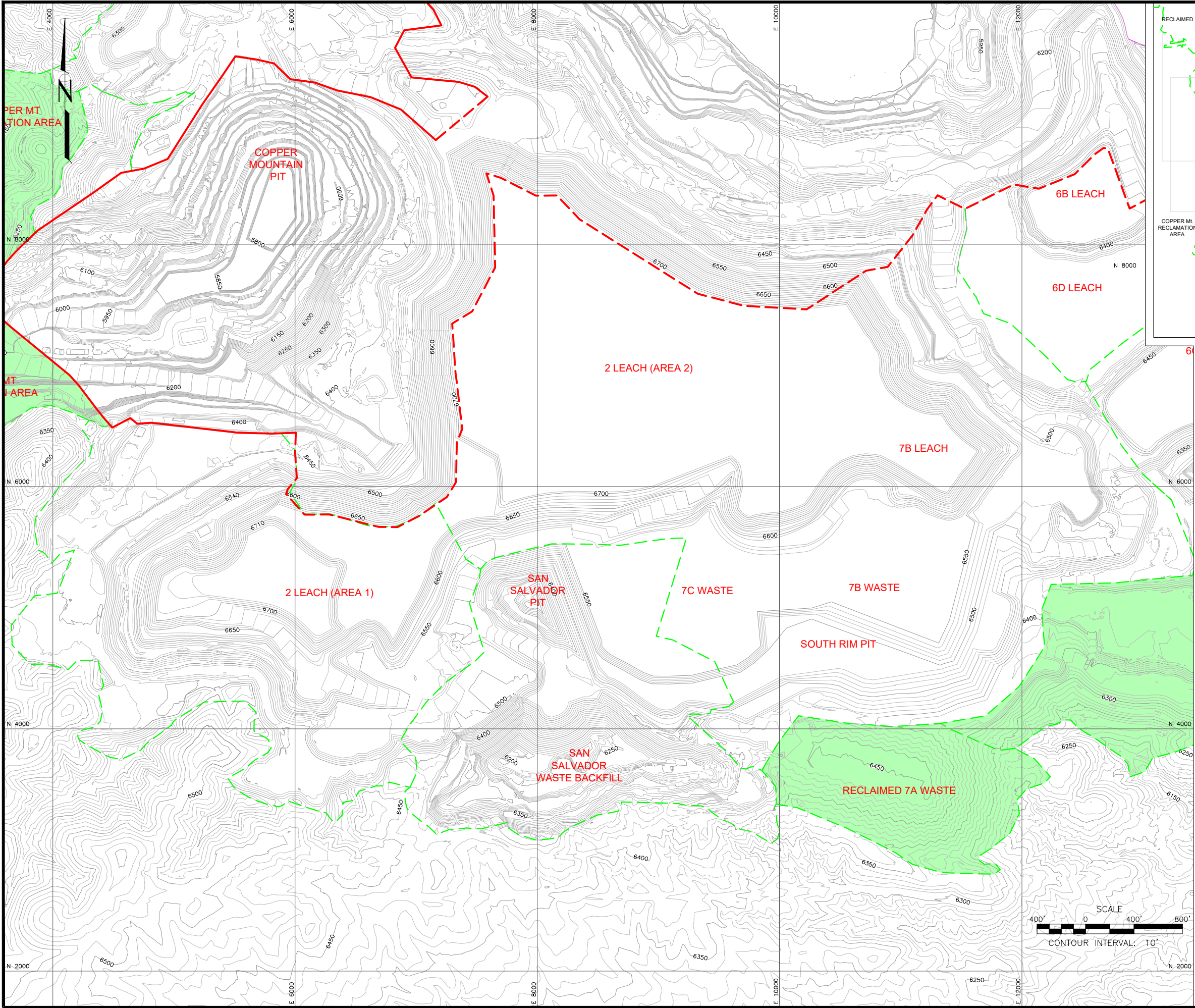
**Stantec**

Sheet 11 Of 34 Sheets  
SCALE: 1"=100' DRAWING No. 11

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



UA-233001-375-Tyrone Mine Site Closure Closeout Plan & 2013 Overall Site Existing Area-Layouts 042019



KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)
- CSG LIMITS

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.

3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

**FREEPORT-McMoRAN TYRONE, INC.**

PROJECT: TYRONE MINE AREA RECLAMATION

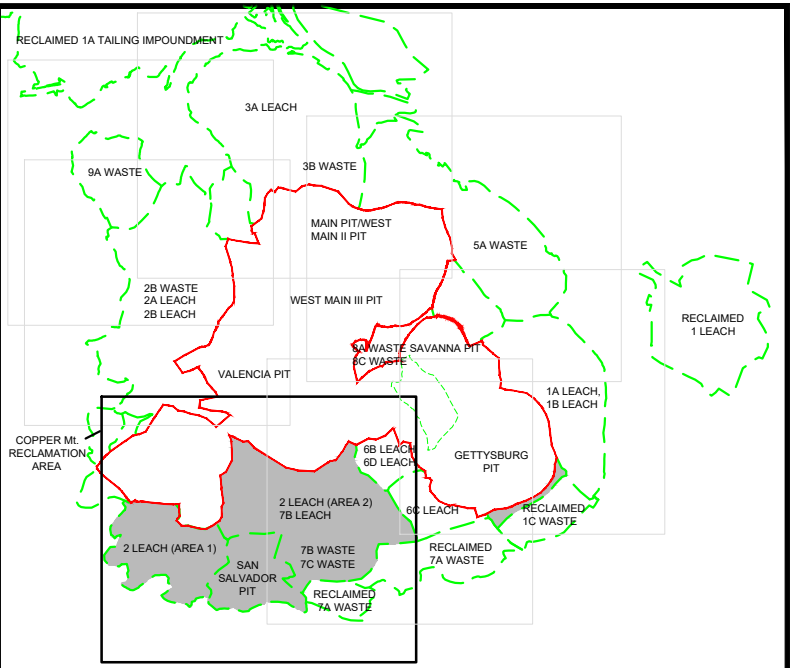
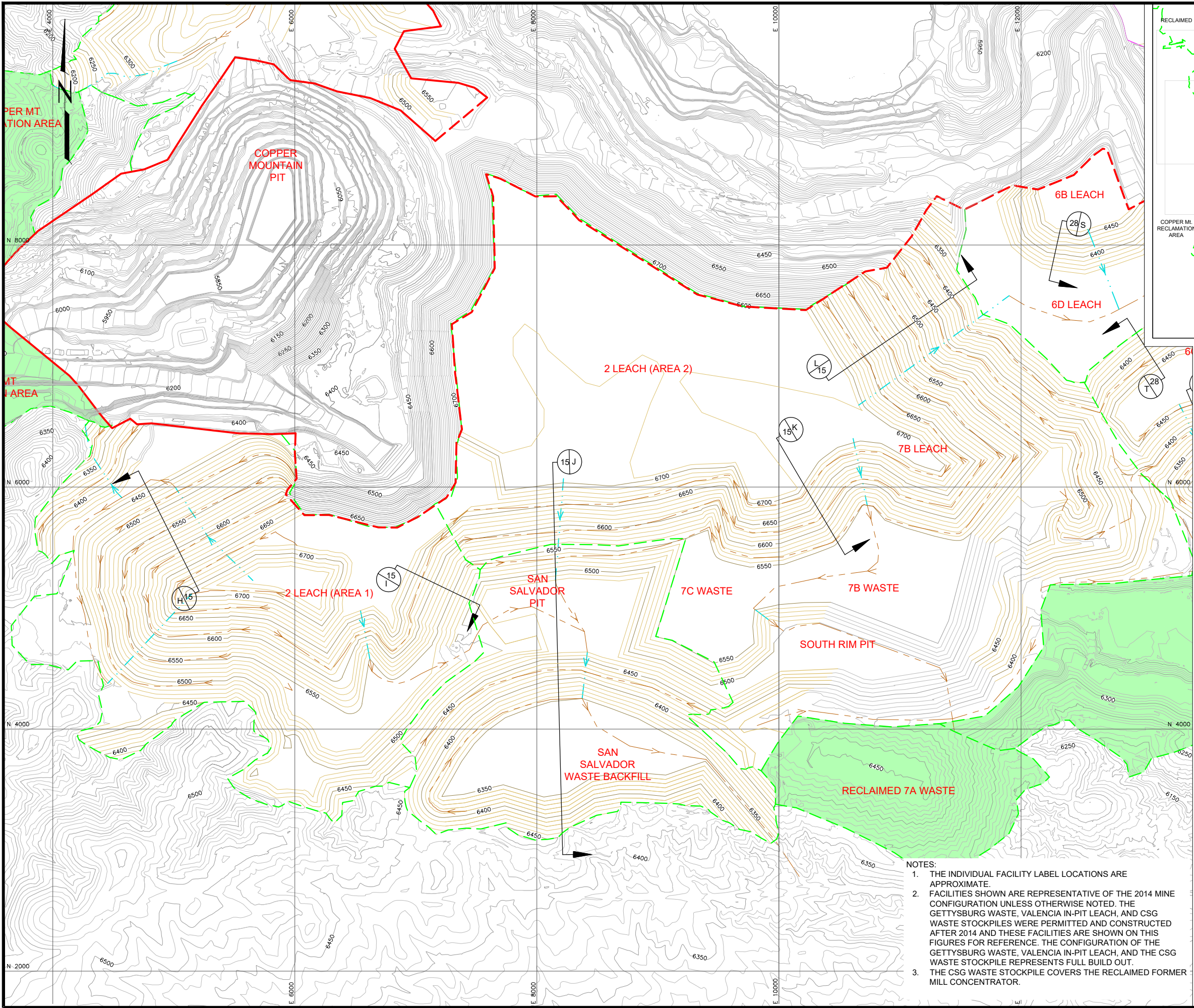
DRAWING TITLE: 2 LEACH (AREAS 1 AND 2), 7B LEACH, 7B WASTE, 7C WASTE AND SAN SALVADOR WASTE BACKFILL



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



LA-233001-175 Tyrone Mine Site Closure Checklist, Plan & 2013 Overall Site Regrade-Area Layouts 04/2019



KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CSG LIMITS
- DOWNDRAIN
- BENCH CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)

DETAIL/SECTION NUMBER  
A  
8

DRAWING No. WHERE  
DETAIL/SECTION IS SHOWN

SCALE  
400' 0 400' 800'

CONTOUR INTERVAL: 10'

3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	08/14	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



**FREEPORT-McMoRAN  
TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE:  
**2 LEACH (AREAS 1 & 2), 7B LEACH, 7B WASTE,  
7C WASTE AND SAN SALVADOR WASTE  
BACKFILL- GRADING & DRAINAGE PLAN**

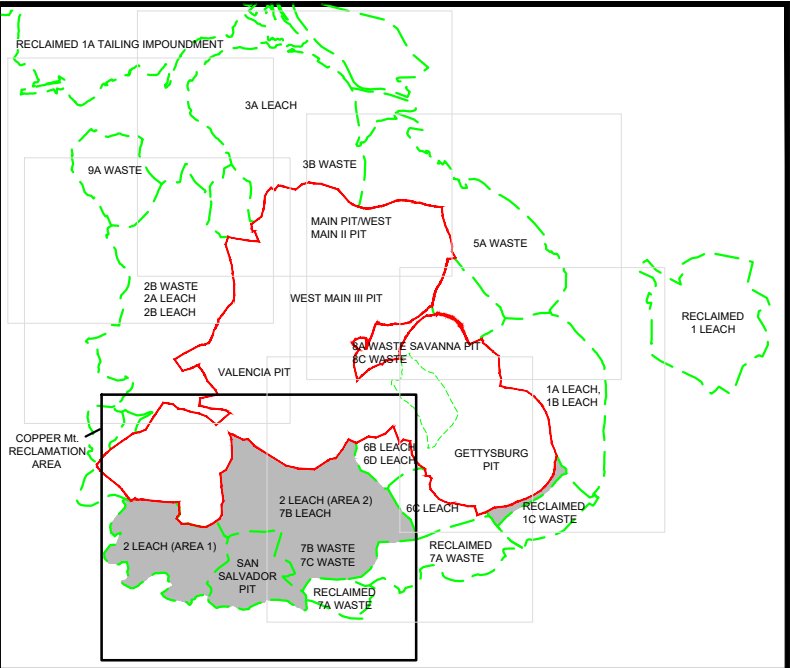
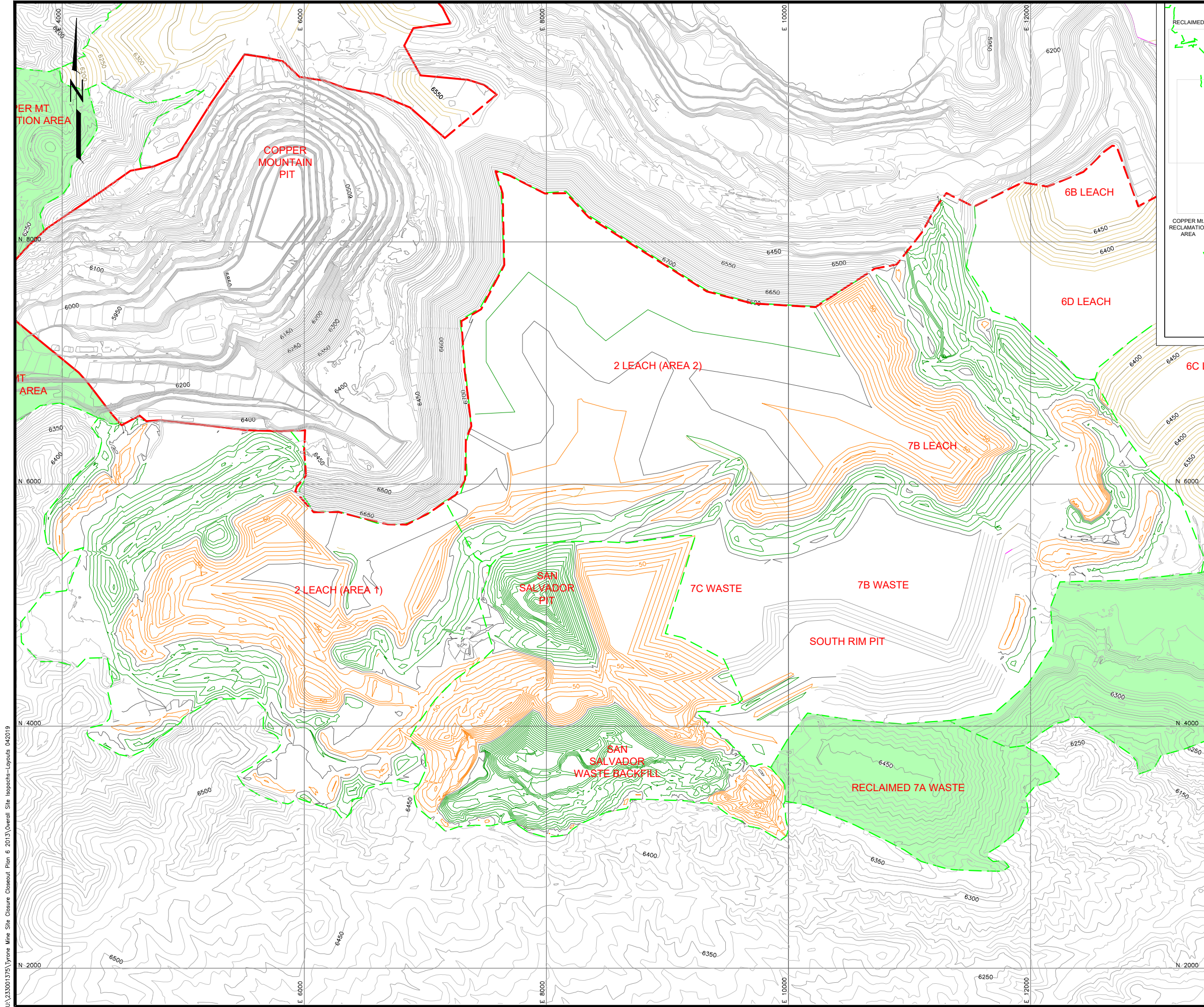


**Stantec**

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

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.

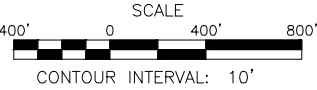




KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- CSG LIMITS
- RECLAIMED AREAS (2019)



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



PROJECT: TYRONE MINE AREA RECLAMATION

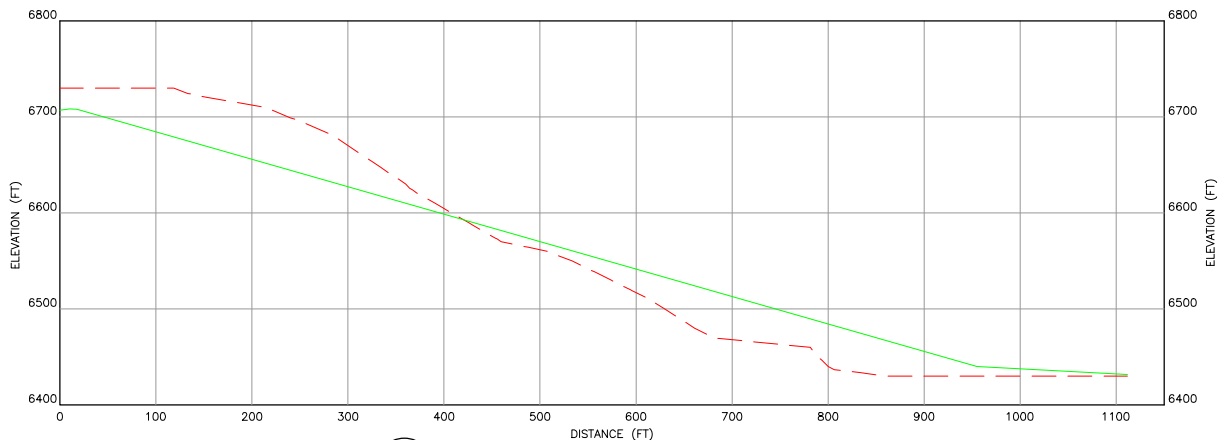
DRAWING TITLE:  
2 LEACH (AREAS 1 AND 2), 7B LEACH, 7B WASTE, 7C WASTE AND SAN SALVADOR WASTE BACKFILL-CUT/FILL ISOPACH MAP



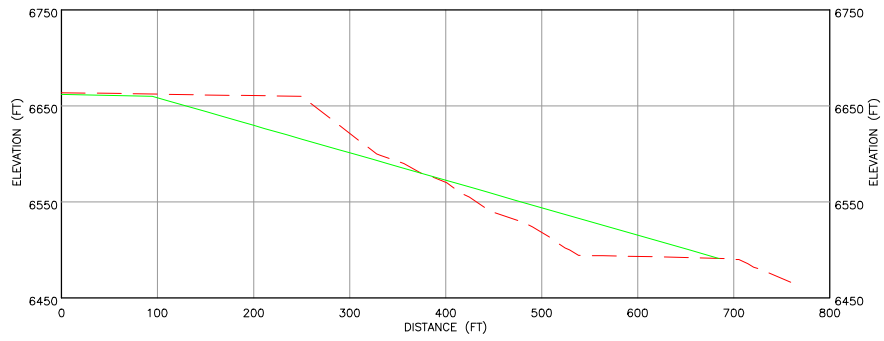
Sheet 14 Of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 14



U:\233001\375\Tyrone Mine Site Closure Closeout Plan & 2013\Overall Site Cross-Sections-LayoutREV1 042019



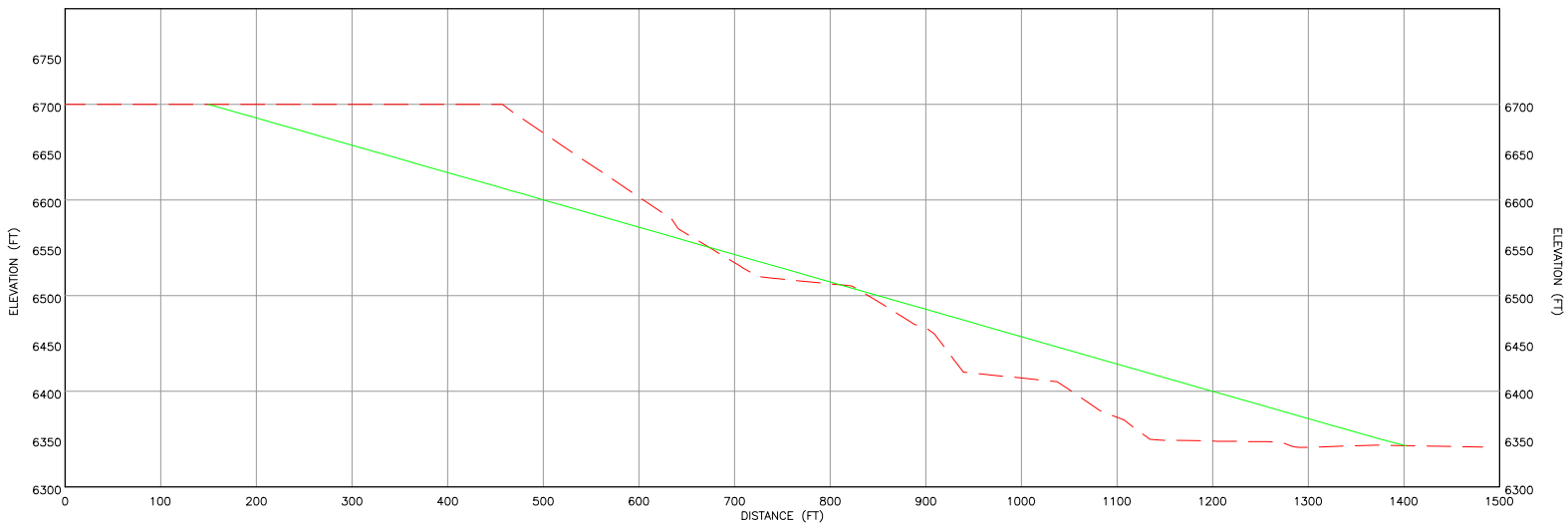
**H**  
13 AREA 2 LEACH (AREA 1) - CROSS SECTION H



**I**  
13 AREA 2 LEACH (AREA 1) AND SAN SALVADOR WASTE BACKFILL - CROSS SECTION I



**J**  
13 AREA 2 LEACH (AREA 2) AND SAN SALVADOR PIT - CROSS SECTION J

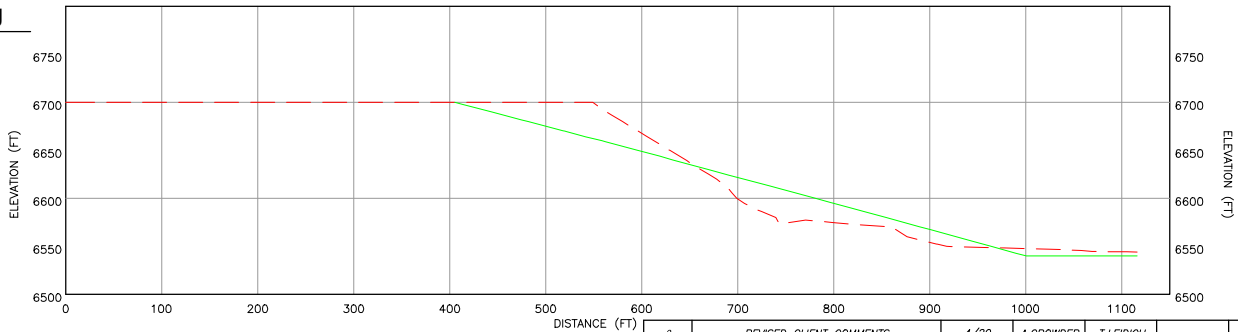


**L**  
13 AREA 7B LEACH AND 6D LEACH - CROSS SECTION L



## LEGEND

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



**K**  
13 AREA 2 LEACH (AREA 2) AND 7B WASTE CROSS SECTION K

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

3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	06/13	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



**FREEPORT-McMoRAN**  
**TYRONE, INC.**

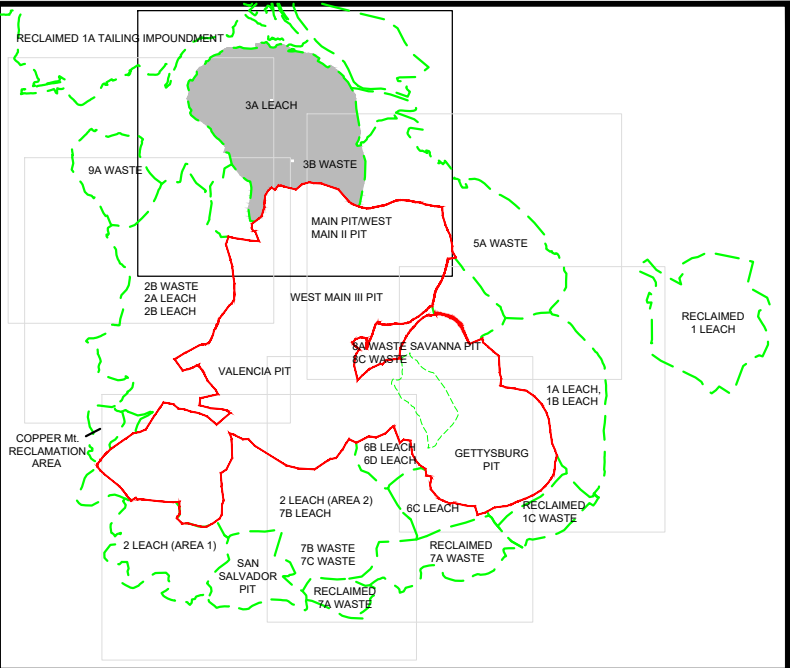
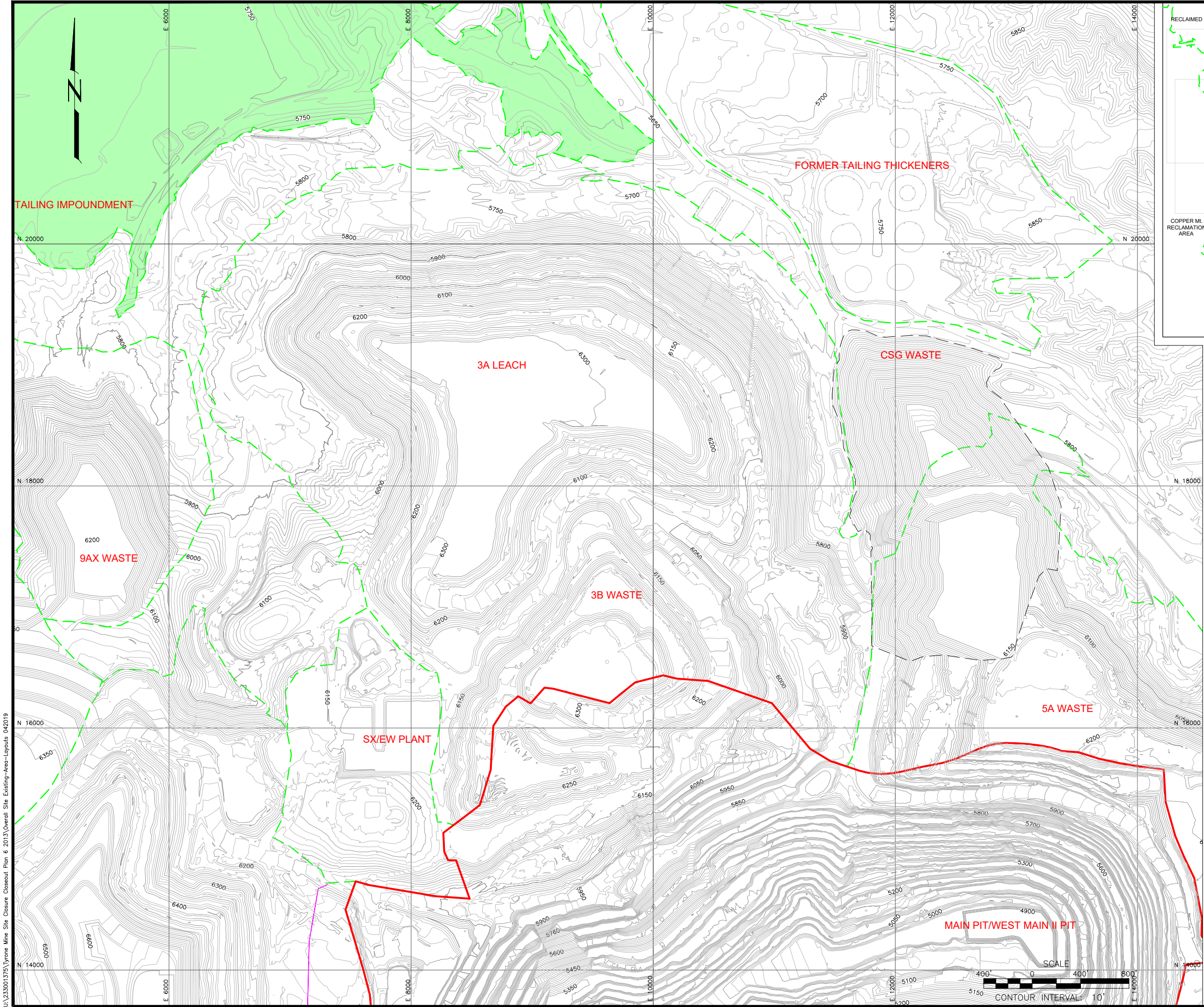
PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE:  
**2 LEACH (AREAS 1 AND 2), 7B LEACH, 7B WASTE, 7C WASTE AND SAN SALVADOR WASTE BACKFILL-CROSS SECTIONS**



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





KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)
- CSG LIMITS

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.

3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT FOR DISCUSSION	05/07	T.LEIDICH	L.BERKNES		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



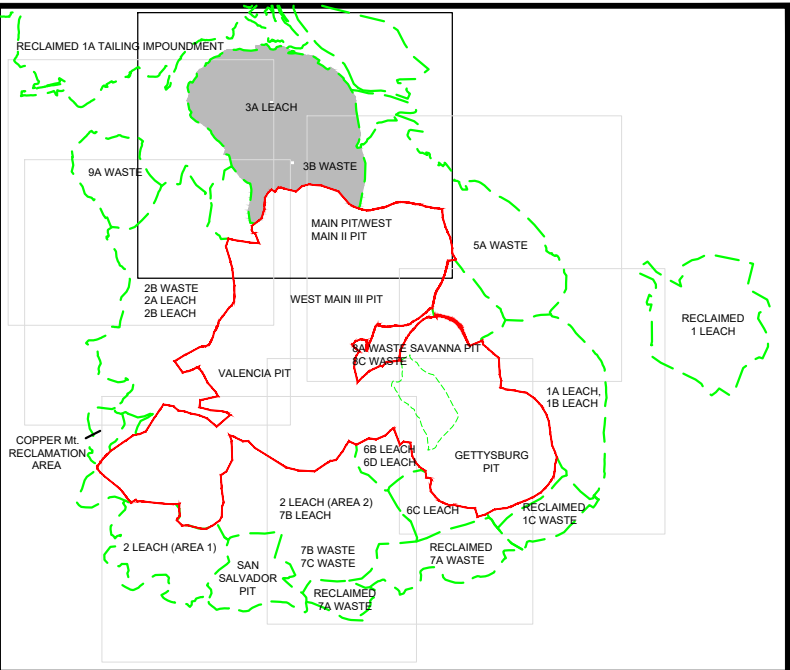
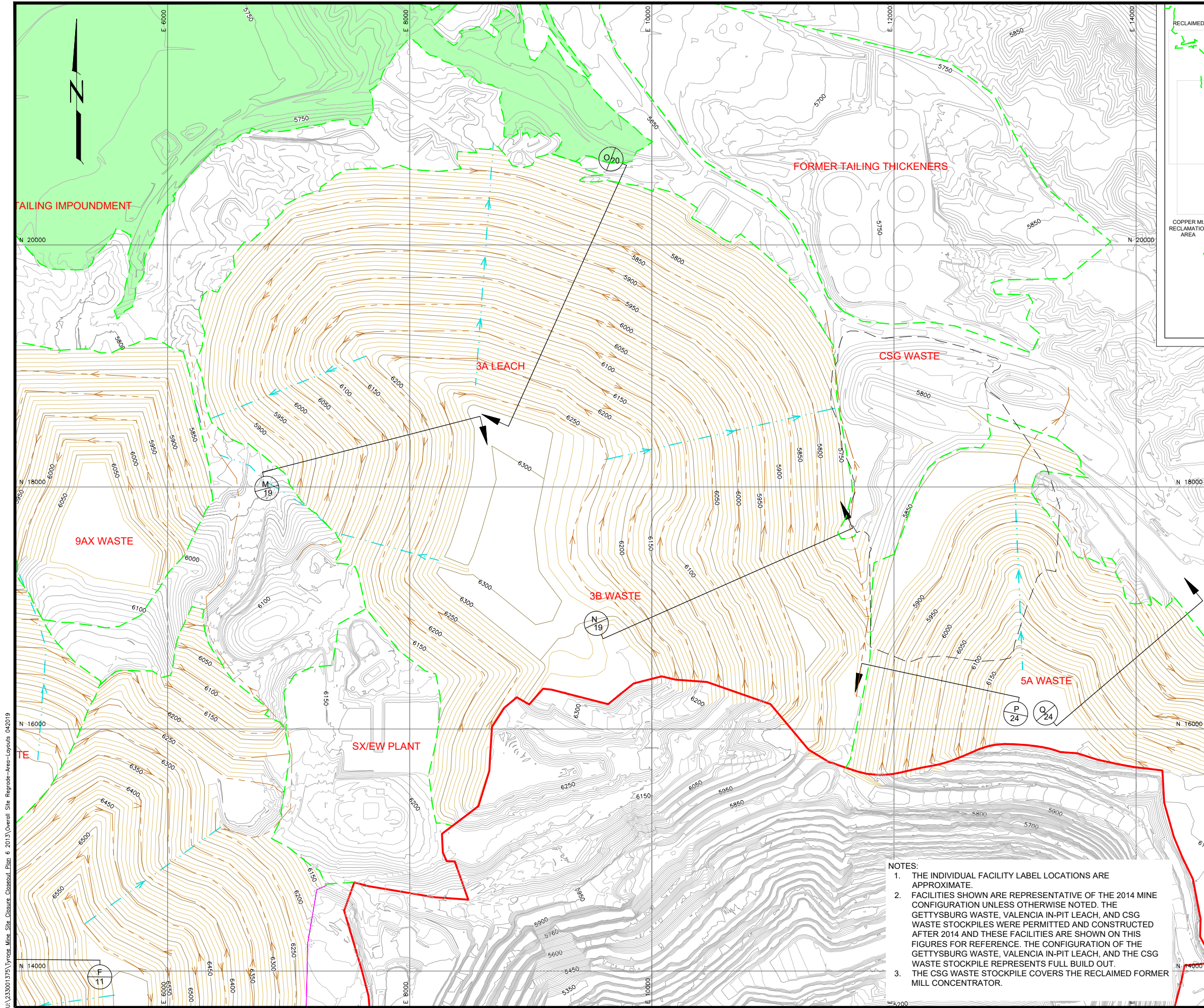
PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: 3A LEACH AND 3B WASTE



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



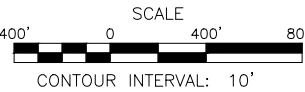


KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CSG LIMITS
- DOWNDRAIN
- BENCH CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)

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



- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.

3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT FOR DISCUSSION	05/07	T.LEIDICH	L.BERKNESS		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



**FREEPORT-McMoRAN  
TYRONE, INC.**

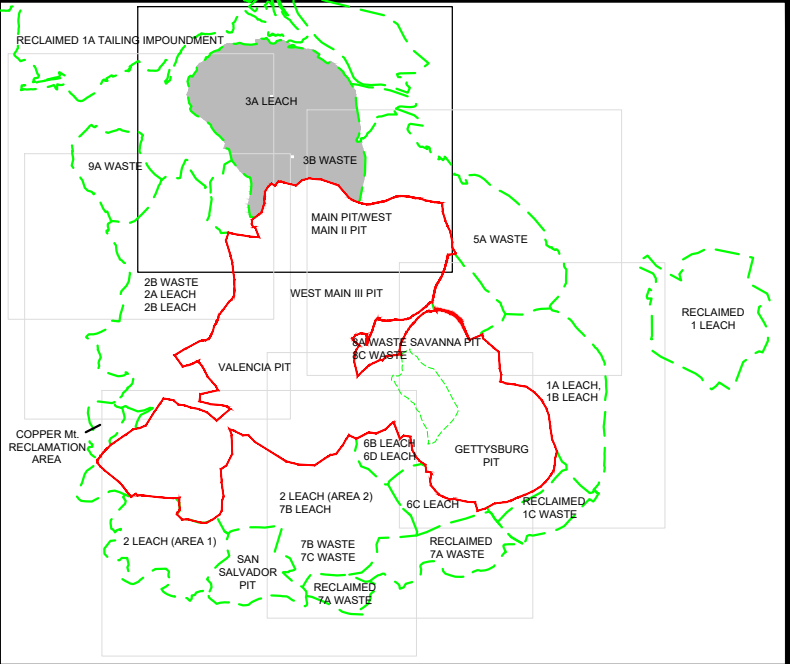
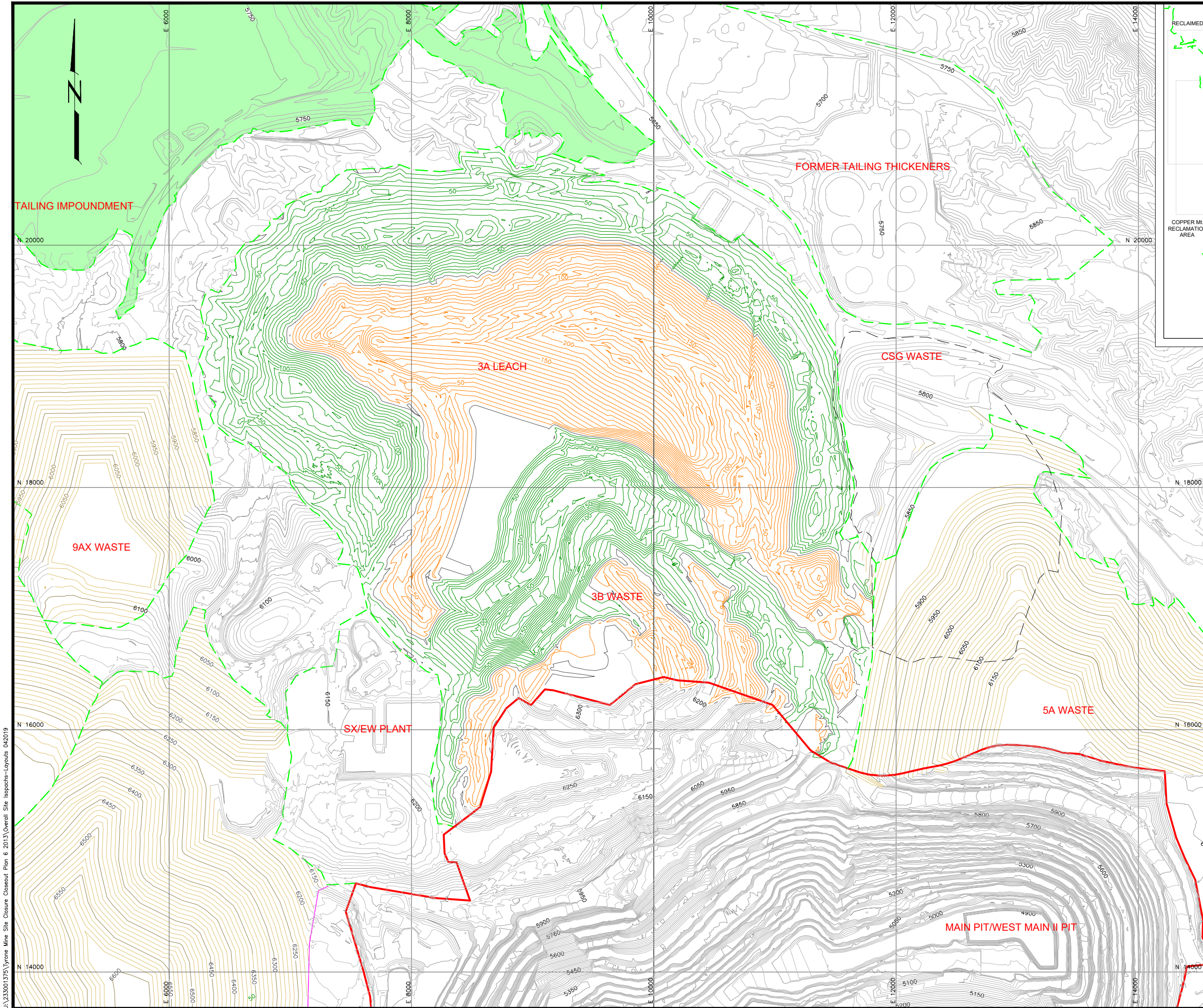
PROJECT: **TYRONE MINE AREA RECLAMATION**  
DRAWING TITLE: **3A LEACH AND 3B WASTE  
GRADING & DRAINAGE PLAN**



**Stantec**

Sheet 17 Of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 17

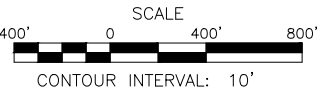




KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- CSG LIMITS
- RECLAIMED AREAS (2019)



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	L.MOORE		
0	DRAFT FOR DISCUSSION	05/07	T.LEIDICH	L.BERKNES		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

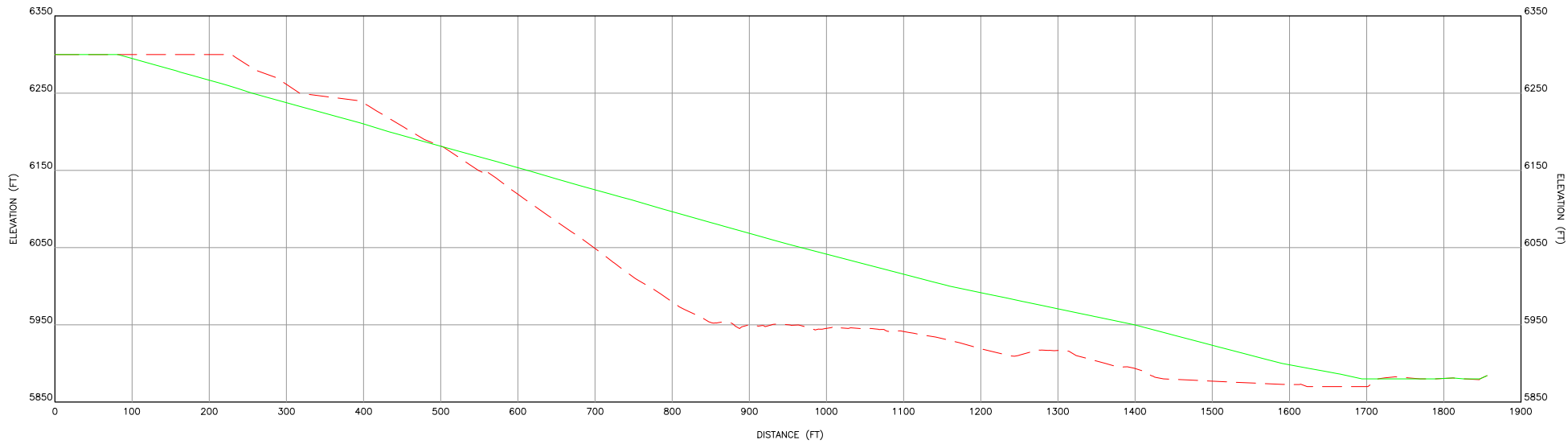


PROJECT: TYRONE MINE AREA RECLAMATION  
DRAWING TITLE: 3A LEACH AND 3B WASTE CUT/FILL ISOPACH MAP



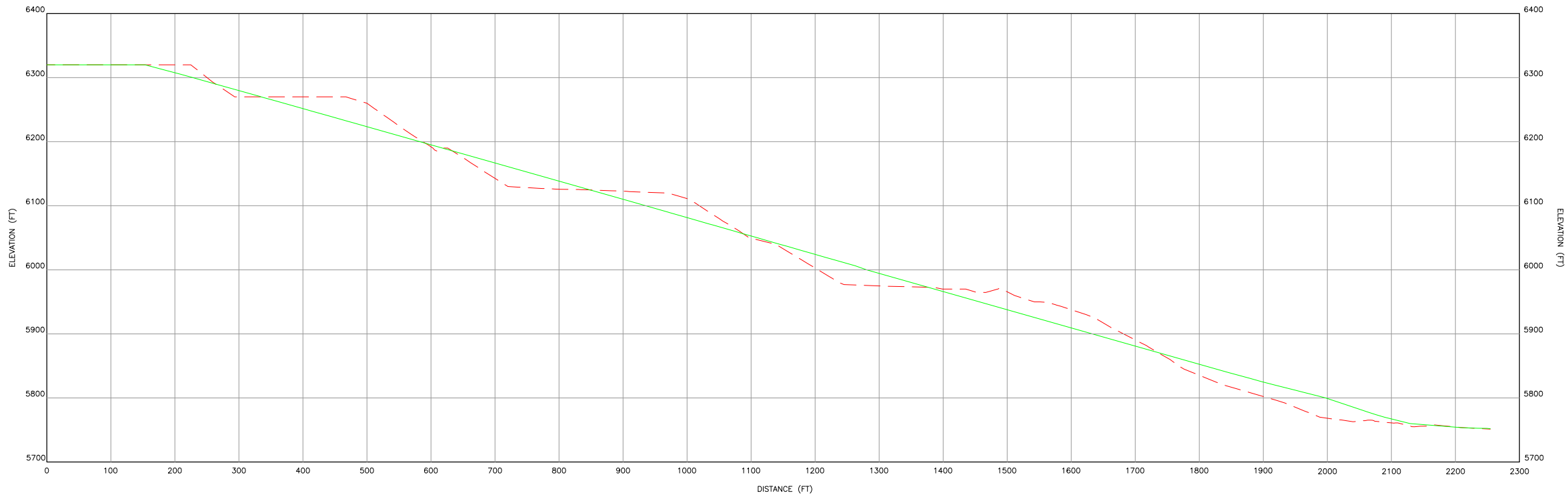


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M  
17

AREA 3A LEACH CROSS SECTION M



N  
17

AREA 3B WASTE CROSS SECTION N

## LEGEND

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



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	06/13	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

**FREEPORT-McMoRAN**  
**TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE: **3A LEACH AND 3B WASTE  
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



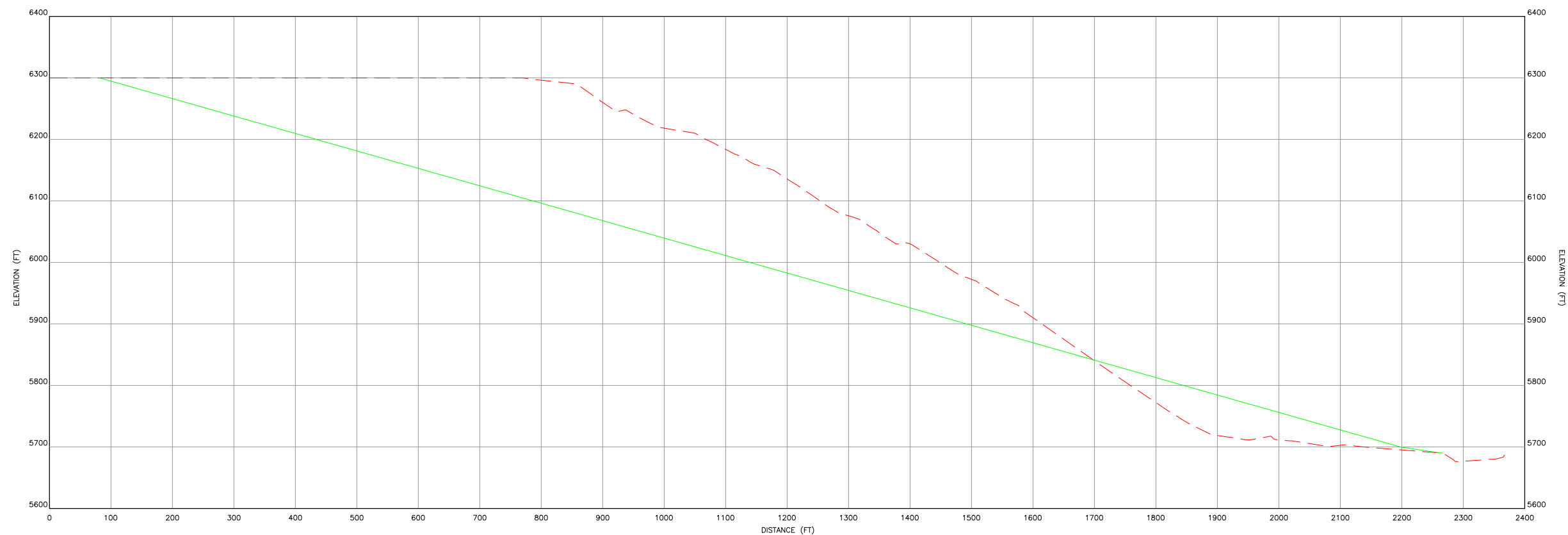
### LEGEND

— — — — — EXISTING GROUND SURFACE

REGRADE SURFACE

DETAIL/SECTION NUMBER

 DRAWING No. WHERE  
DETAIL/SECTION IS SHOWN



0 AREA 3A LEACH CROSS SECTION 0  
17



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	06/13	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. BY	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED BY	AND



PROJECT: *TYRONE MINE AREA RECLAMATION*

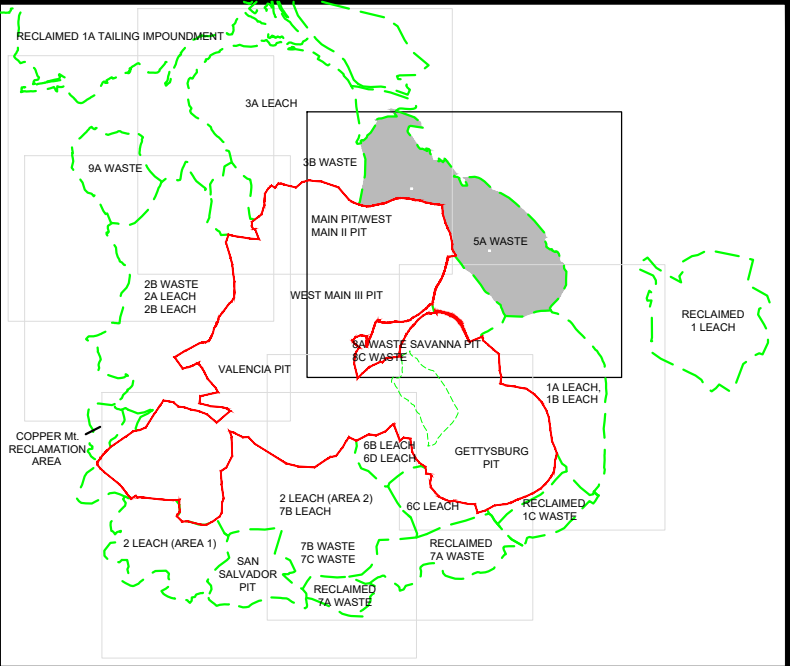
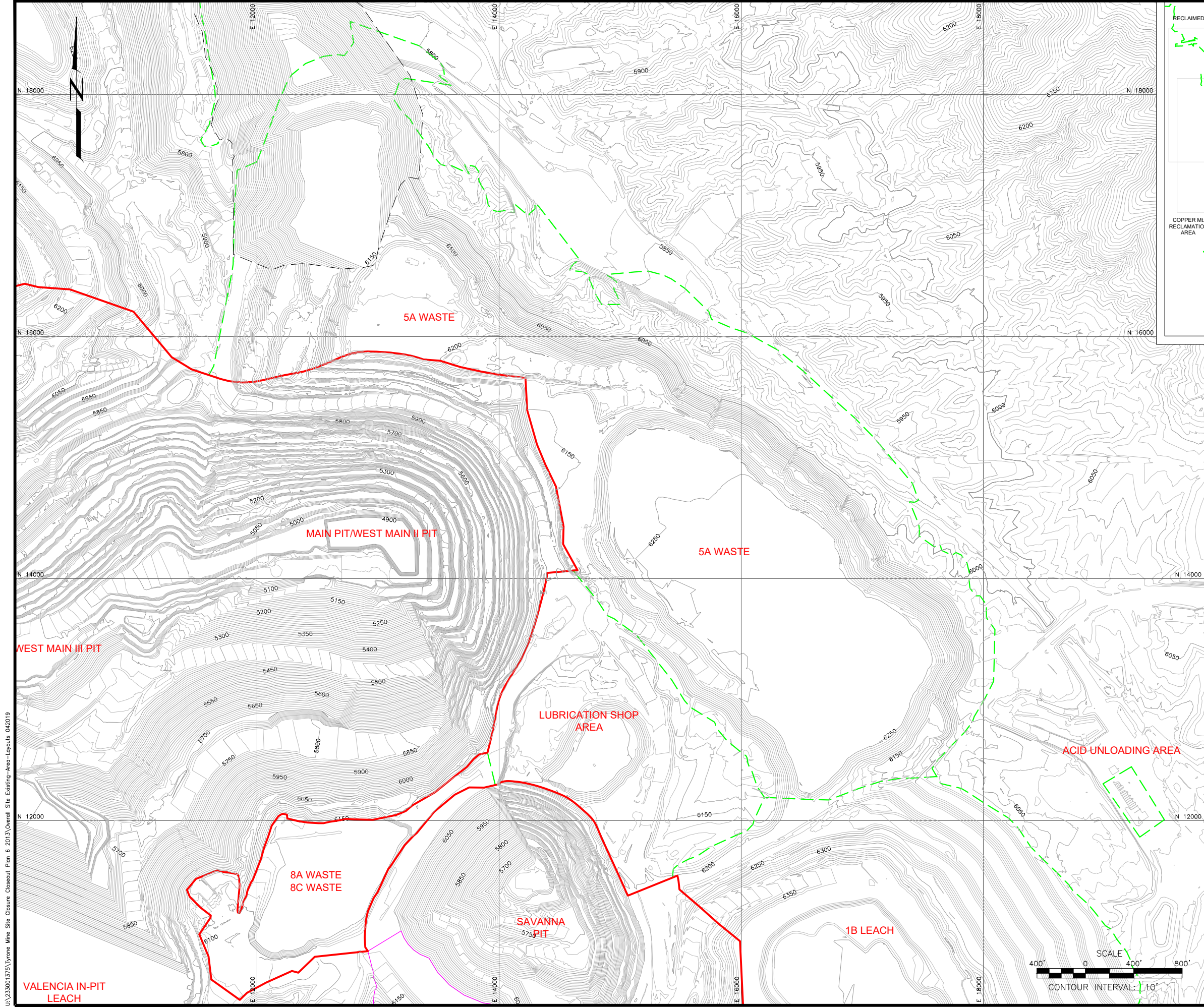
DRAWING TITLE: **3A LEACH AND 3B WASTE  
CROSS SECTIONS - 2**



Sheet <u>20</u> Of <u>34</u> Sheets	
SCALE:  <i>1"=100'</i>	DRAWING No.  <i>20</i>

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
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)
- CSG LIMITS

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.

3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



PROJECT: TYRONE MINE AREA RECLAMATION

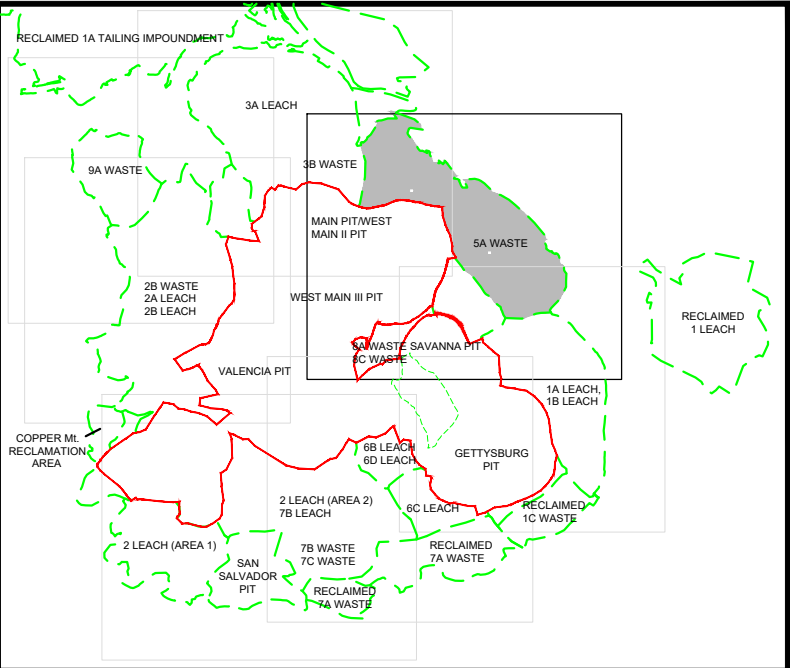
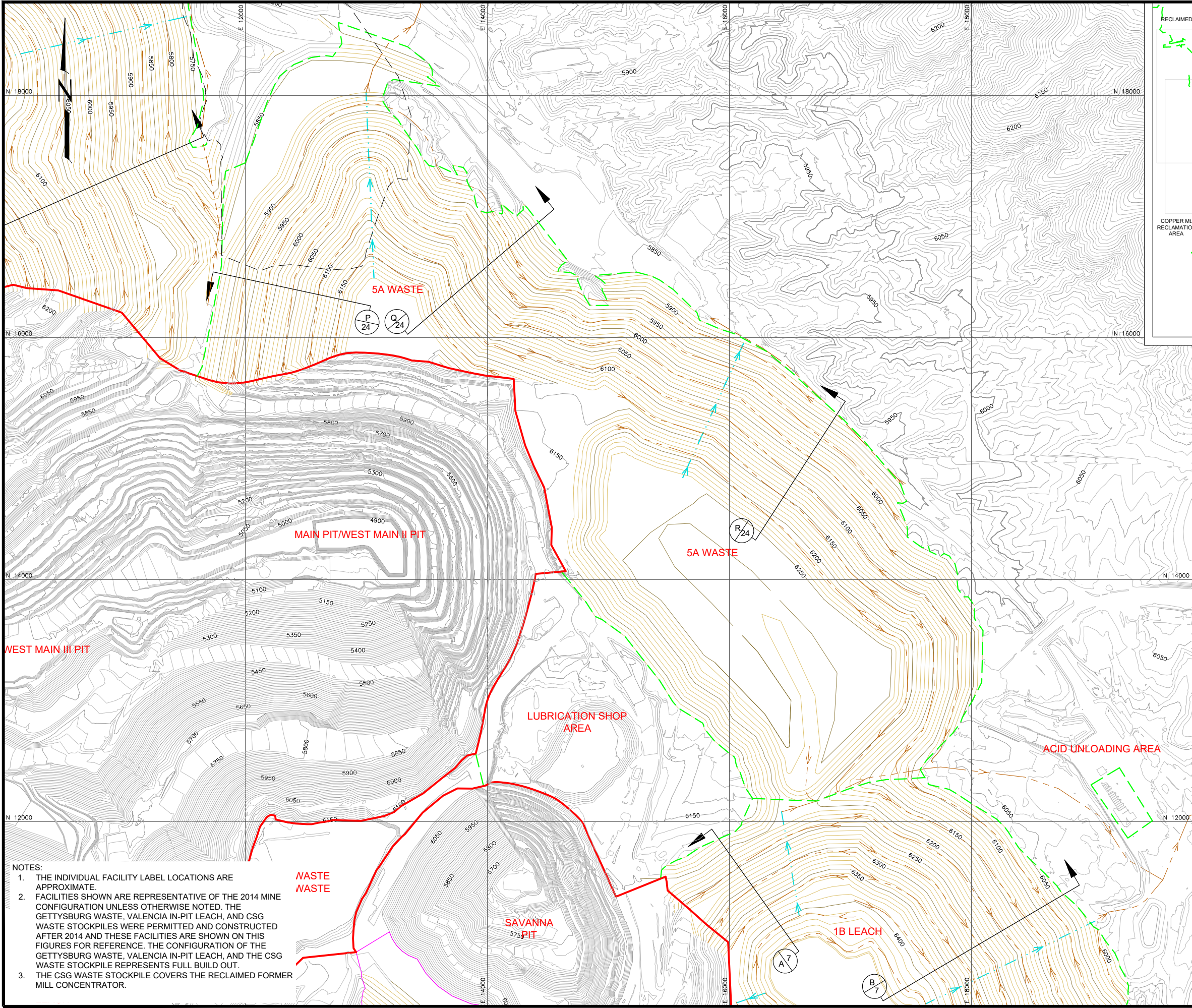
DRAWING TITLE: 5A WASTE



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



UA-233001-375-Tyrone Mine Site Closure Concept Plan & 2013 Overall Site Regrade-Area Layouts 04/2019

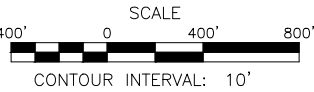


KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CSG LIMITS
- DOWNDRAIN
- BENCH CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)

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



- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.

3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

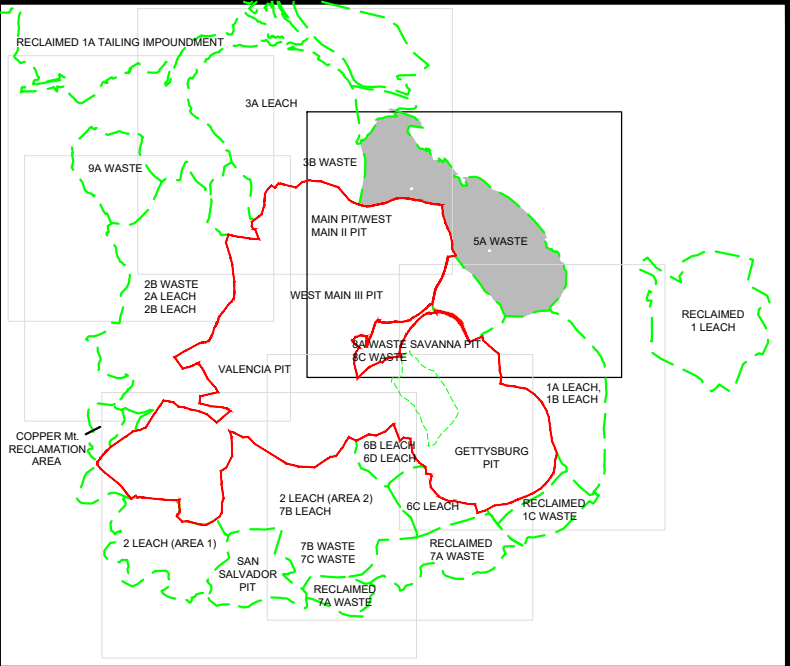
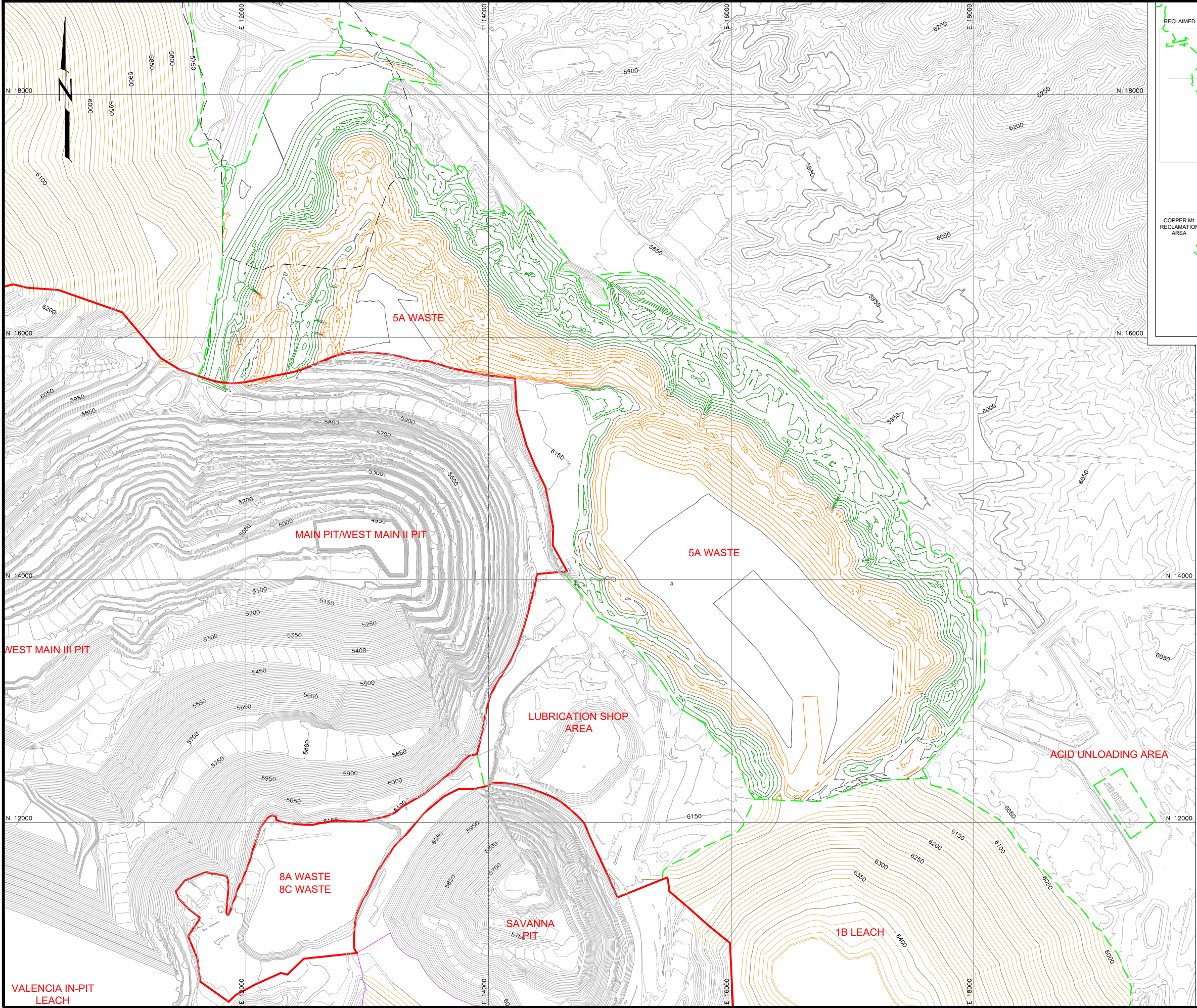
**FREEPORT-McMoRAN**  
**TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**  
DRAWING TITLE: **5A WASTE  
GRADING & DRAINAGE PLAN**

**Stantec**

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

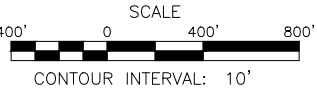




KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- CSG LIMITS
- RECLAIMED AREAS (2019)



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



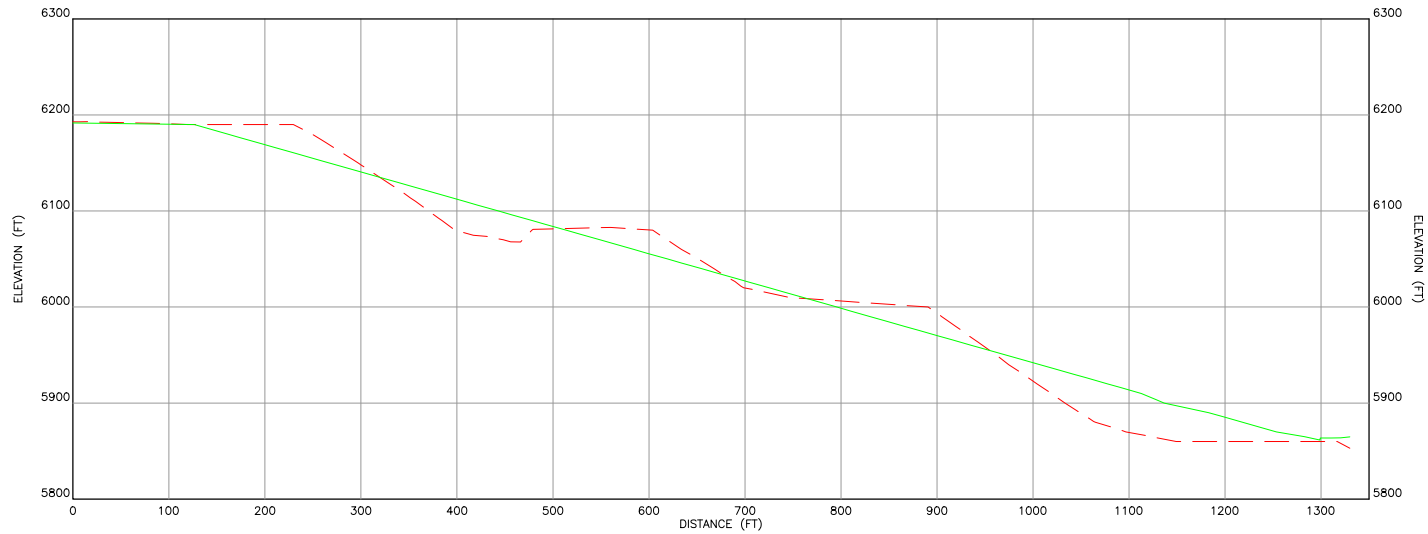
PROJECT: TYRONE MINE AREA RECLAMATION  
DRAWING TITLE: 5A WASTE CUT/FILL ISOPACH MAP



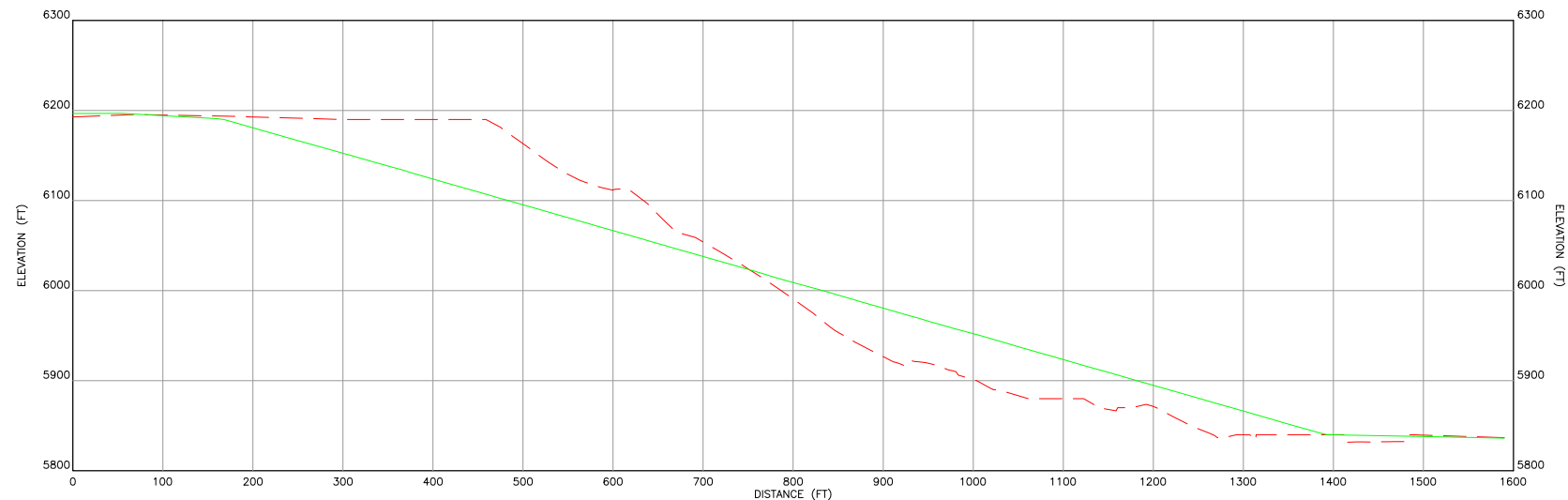
Sheet 23 Of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 23



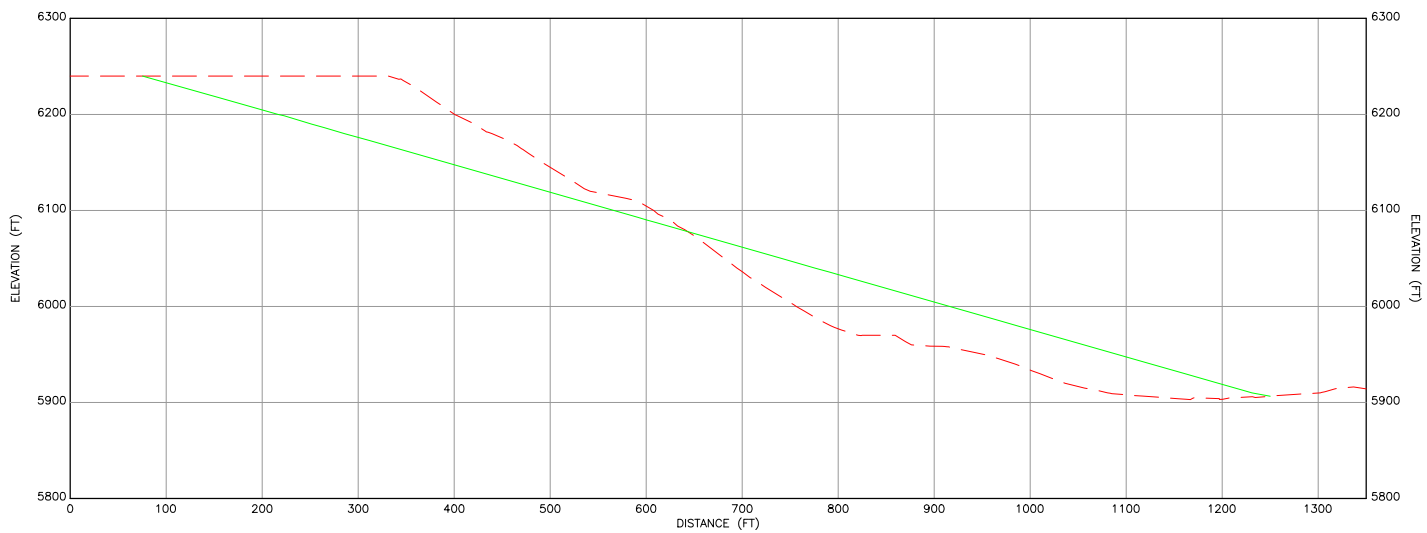
UA\233001\75\Tyrone Mine Site Closure Checklist Plan & 2013\Overall Site Cross-Sections-LayoutREV1 042019



**P**  
22 AREA 5A WASTE - CROSS SECTION P



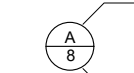
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22 AREA 5A WASTE - CROSS SECTION Q



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

## LEGEND

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



DRAWING No. WHERE  
DETAIL/SECTION IS SHOWN



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	06/13	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



**FREEPORT-McMoRAN**  
**TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE: **5A WASTE  
CROSS SECTIONS**

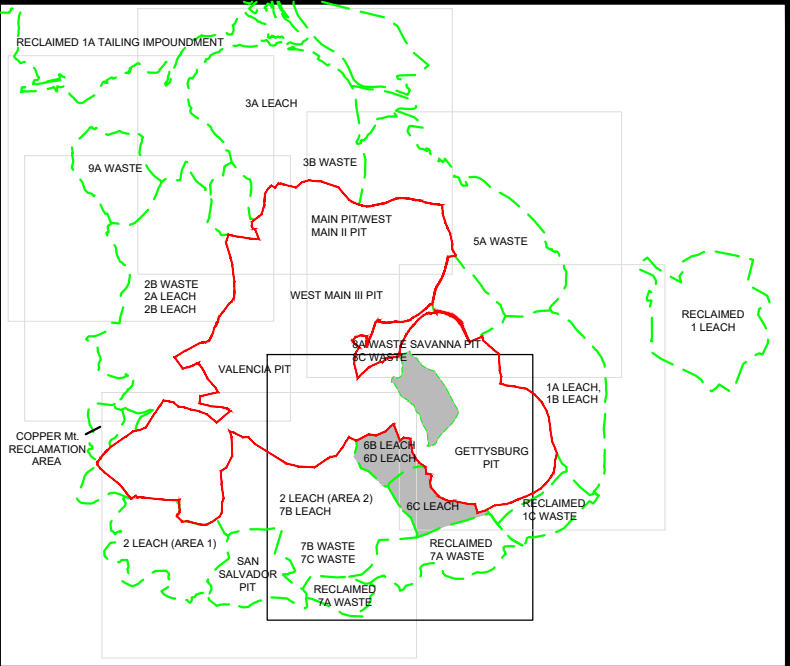
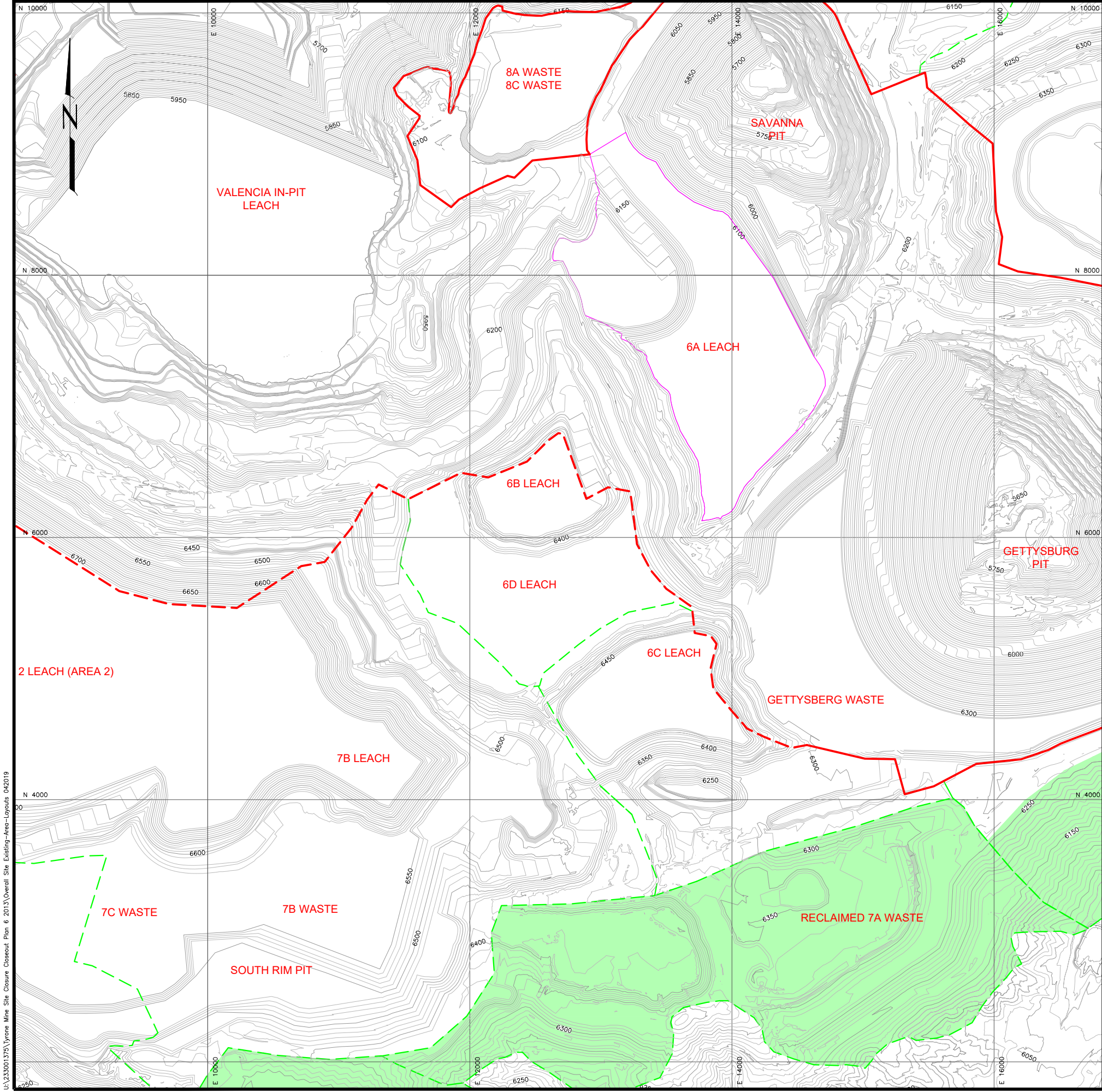


**Stantec**

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
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)
- CSG LIMITS

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.

3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

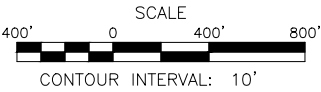


PROJECT: TYRONE MINE AREA RECLAMATION

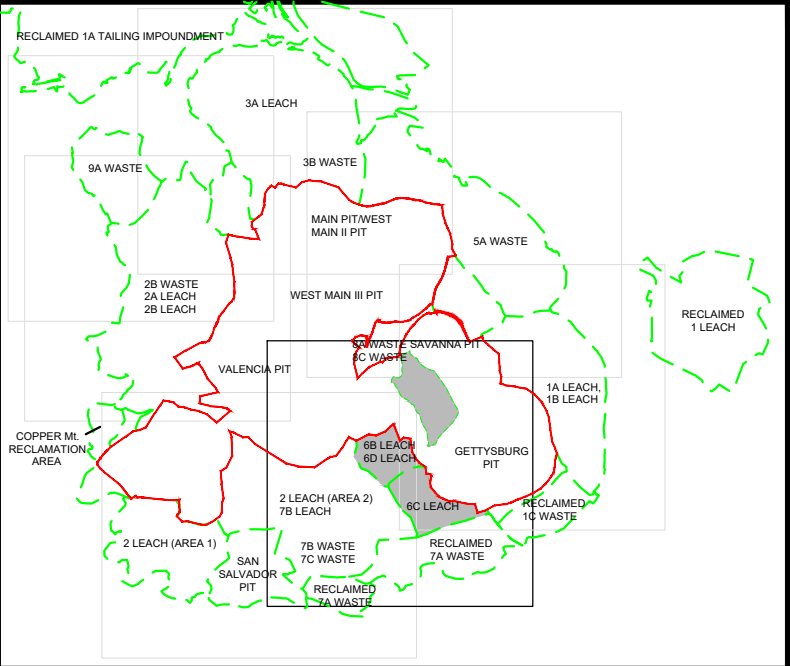
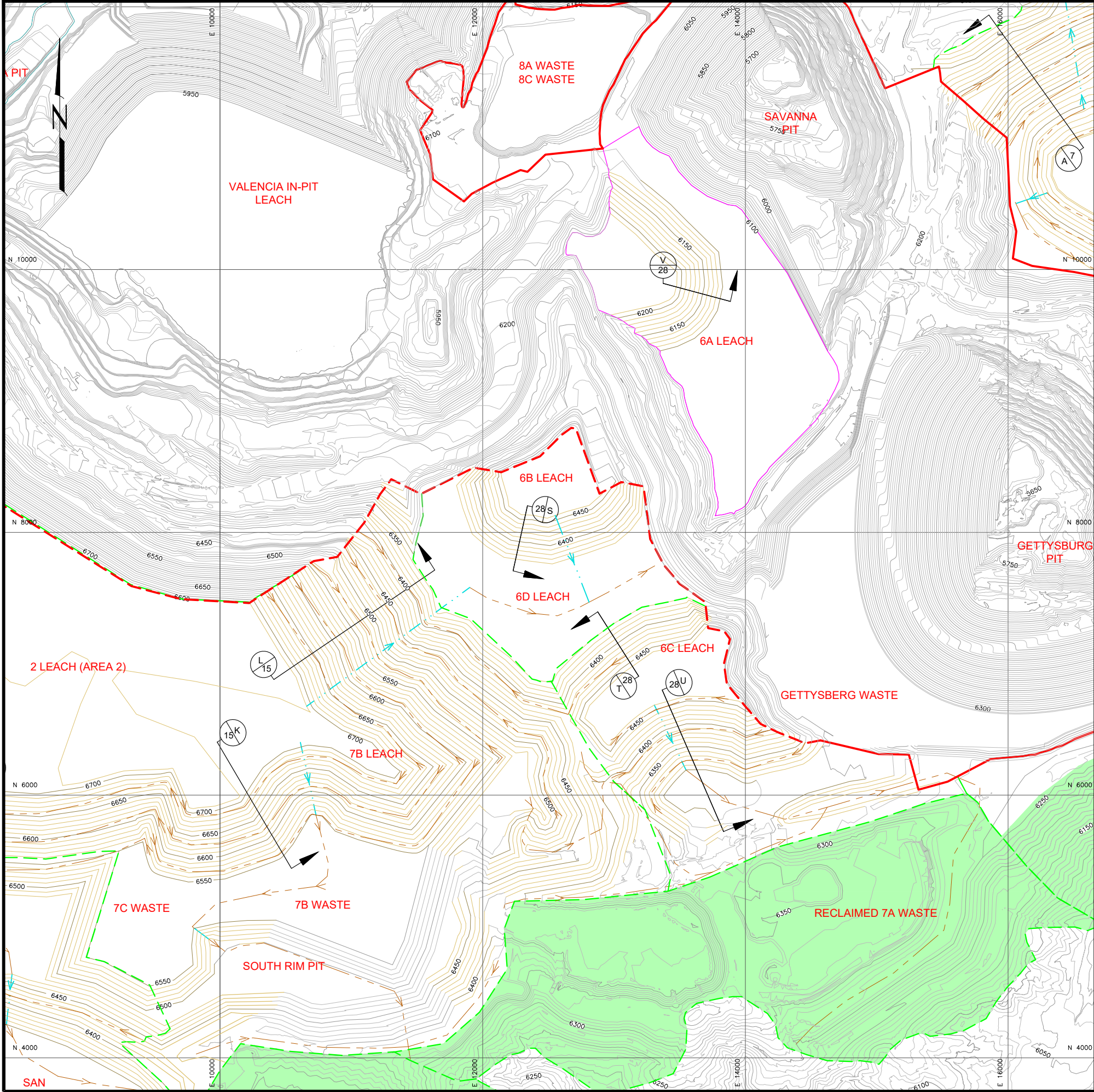
DRAWING TITLE: 6A LEACH, 6B LEACH, 6C LEACH AND 6D LEACH



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





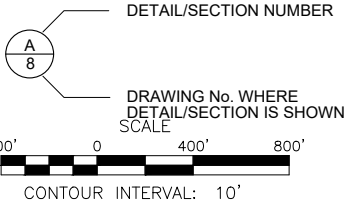


KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CSG LIMITS
- DOWNDRAIN
- BENCH CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/1	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: 6A LEACH, 6B LEACH, 6C LEACH, AND 6D LEACH GRADING & DRAINAGE PLAN

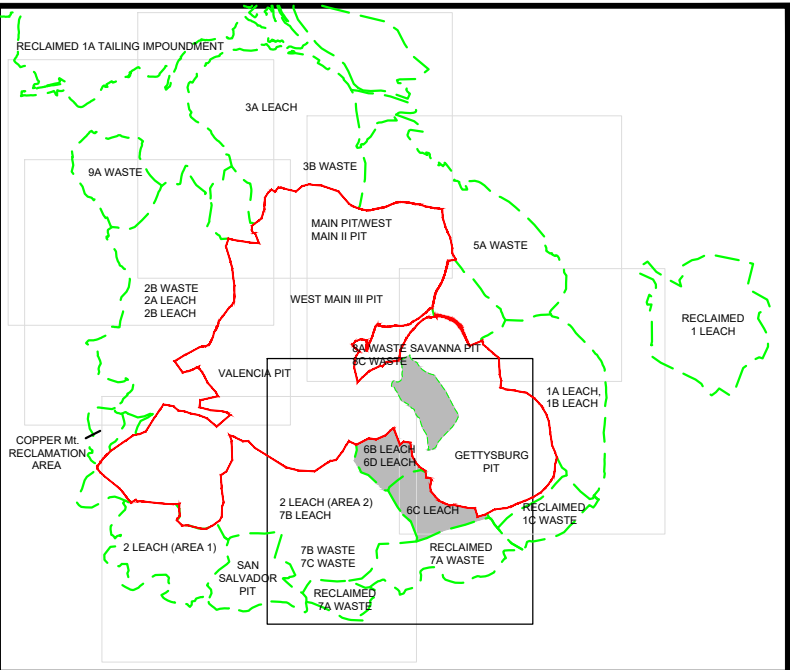
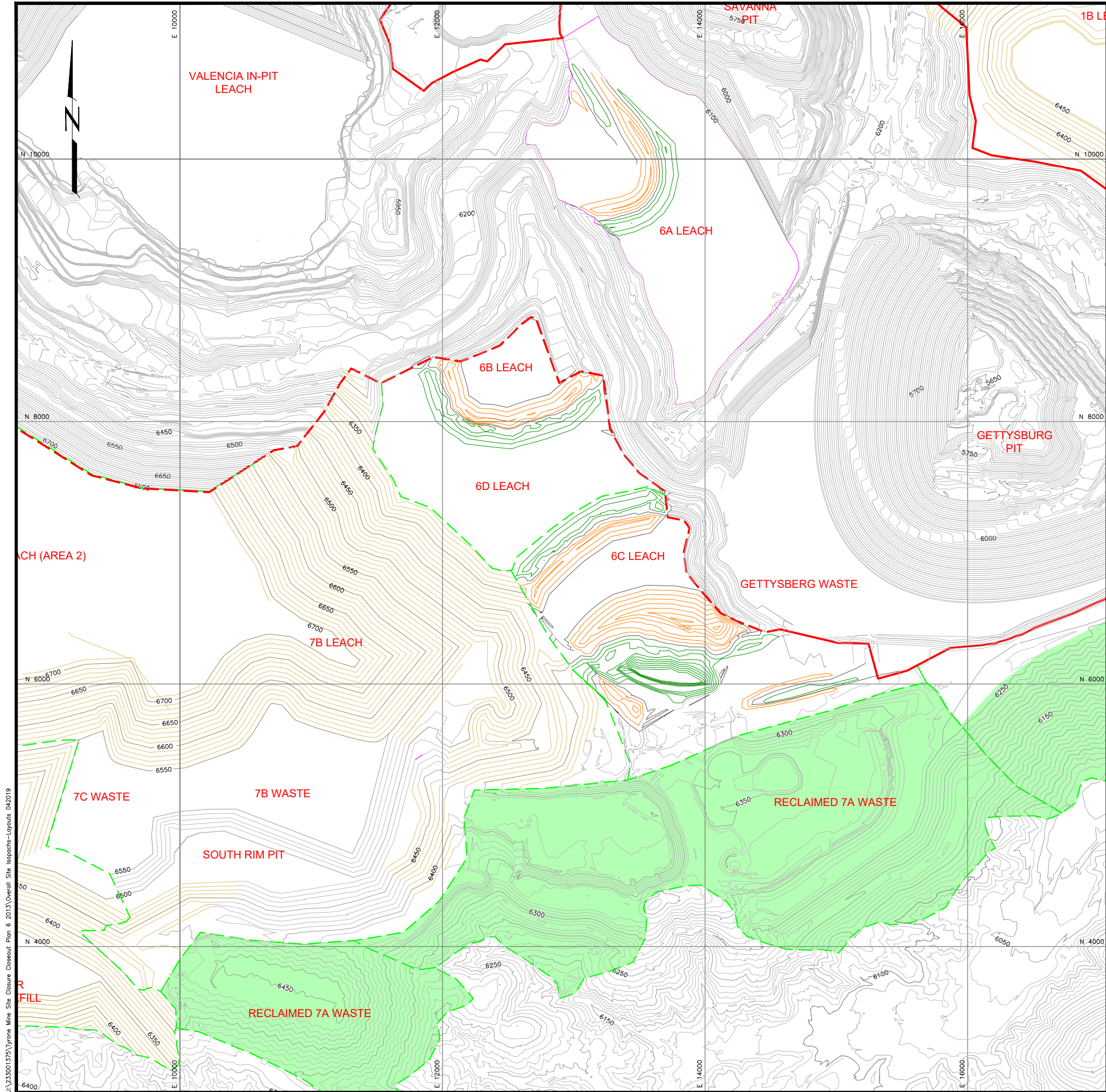


Sheet 26 Of 34 Sheets

SCALE: 1"=400'

DRAWING No. 26

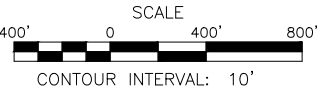




KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- CSG LIMITS
- RECLAIMED AREAS (2019)



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

**FREEPORT-McMoRAN**  
**TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**

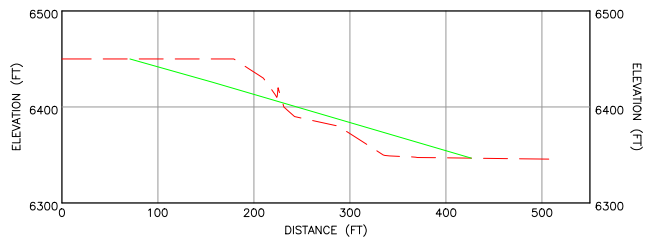
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6C LEACH, AND 6D LEACH  
CUT/FILL ISOPACH MAP**



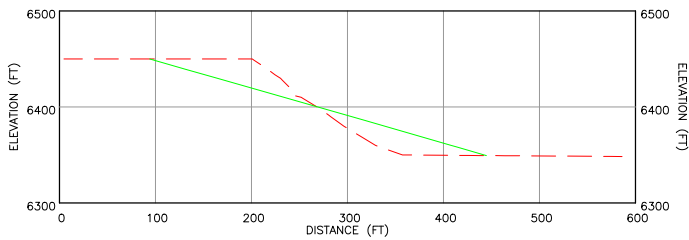
Sheet 27 of 34 Sheets  
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DRAWING No. 27



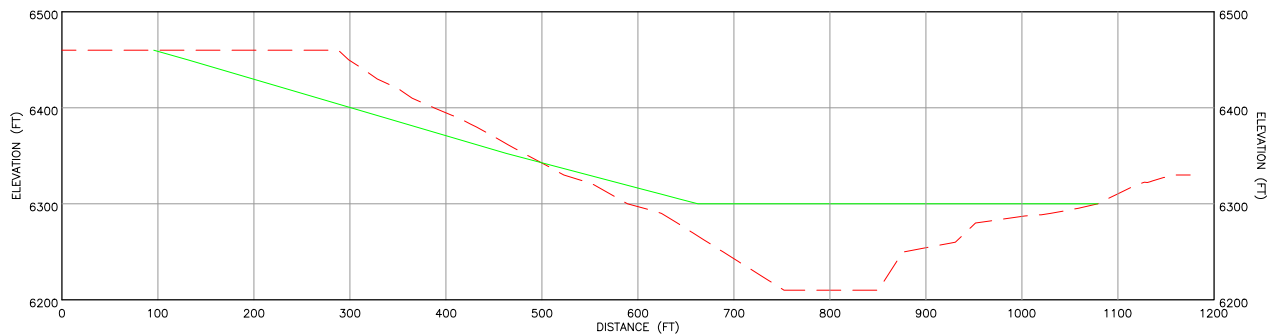
U:\233001\75\Tyrone Mine Site Closure Checklist Plan & 2013\Overall Site Cross-Sections-LAYOUTREV1 042019



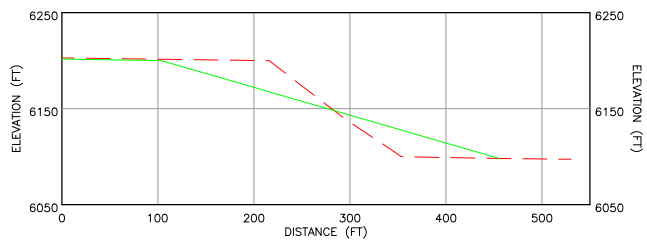
**S**  
26  
AREA 6B LEACH - CROSS SECTION S



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





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



**V**  
26  
AREA 6A LEACH - CROSS SECTION V

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

## LEGEND

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



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T. LEIDICH	T. LEIDICH		
1	ISSUED FOR BOND CALCULATION	06/13	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



**FREEPORT-McMoRAN**  
**TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE: **Nos. 6A LEACH, 6B LEACH, 6C LEACH, AND 6D LEACH - CROSS SECTIONS**

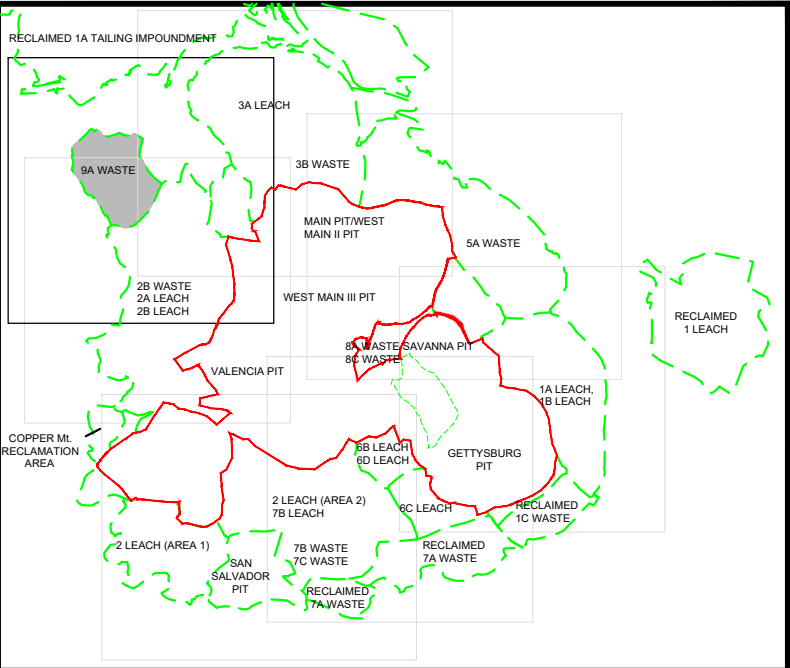
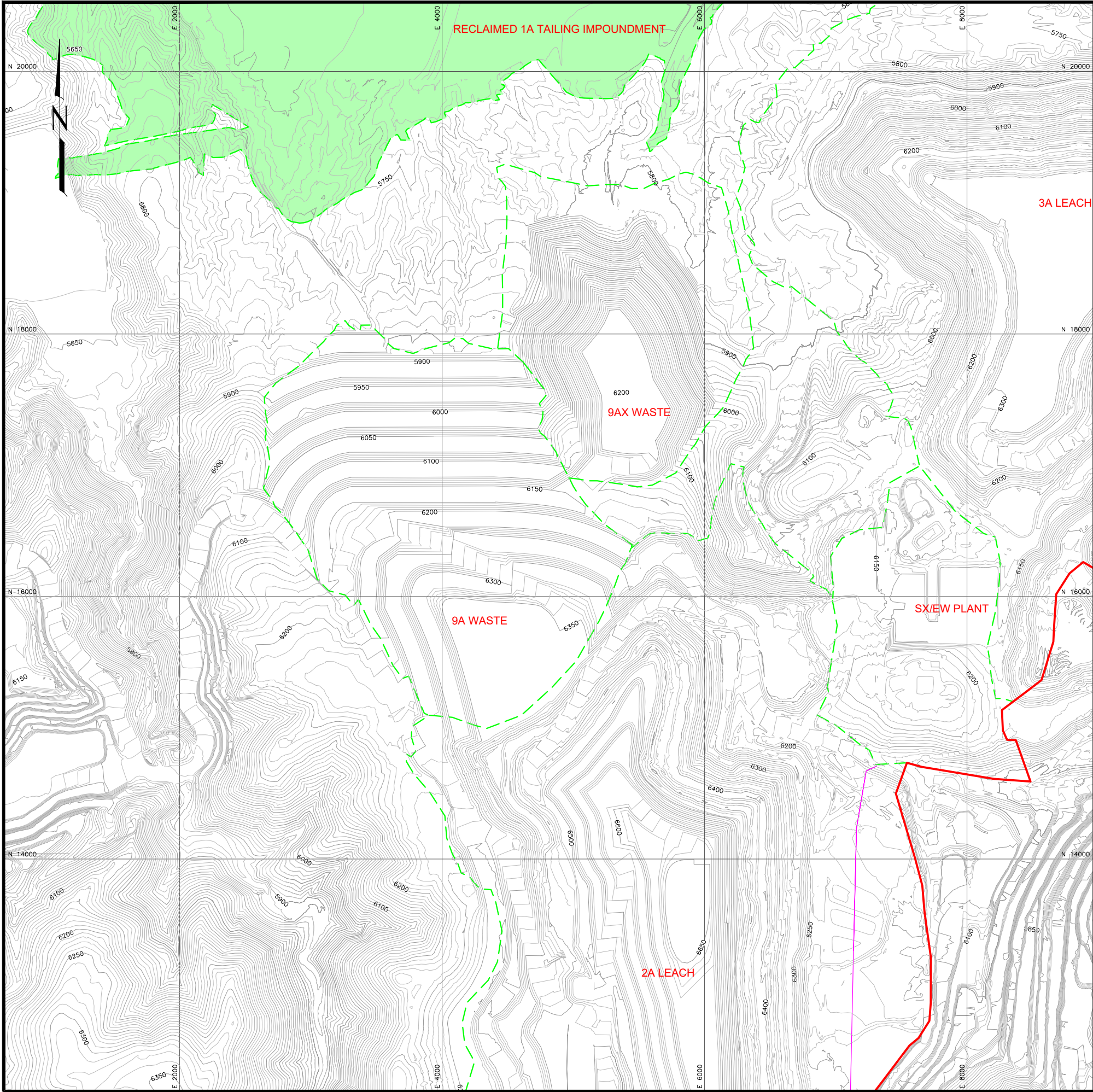


**Stantec**

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



U:\233001\375\Tyronne Mine Site Closure Checklist Plan & 2013\Overall Site Existing-Area-Layouts 042019



KEY MAP

LEGEND

- 6250 EXISTING CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)
- CSG LIMITS

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.

3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

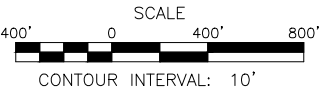


PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: 9A WASTE AND 9AX WASTE

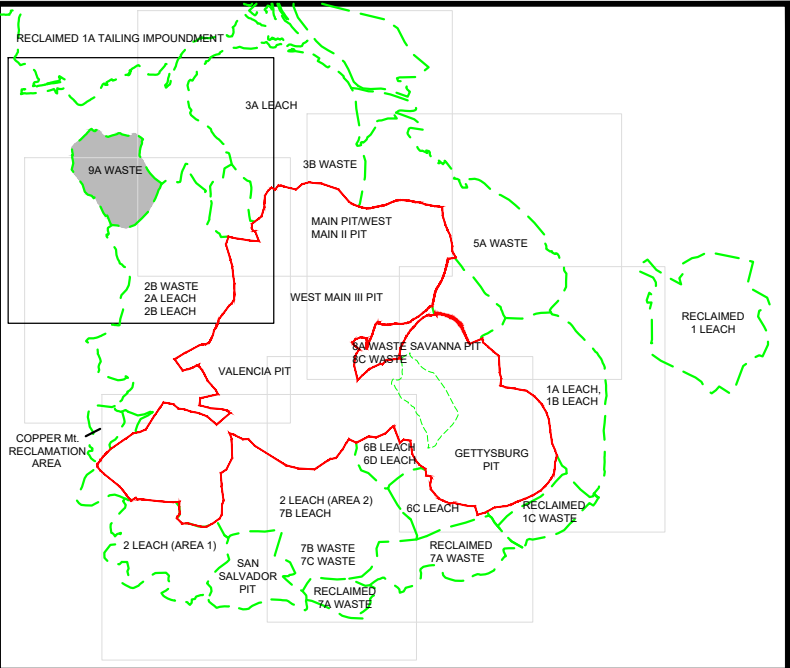
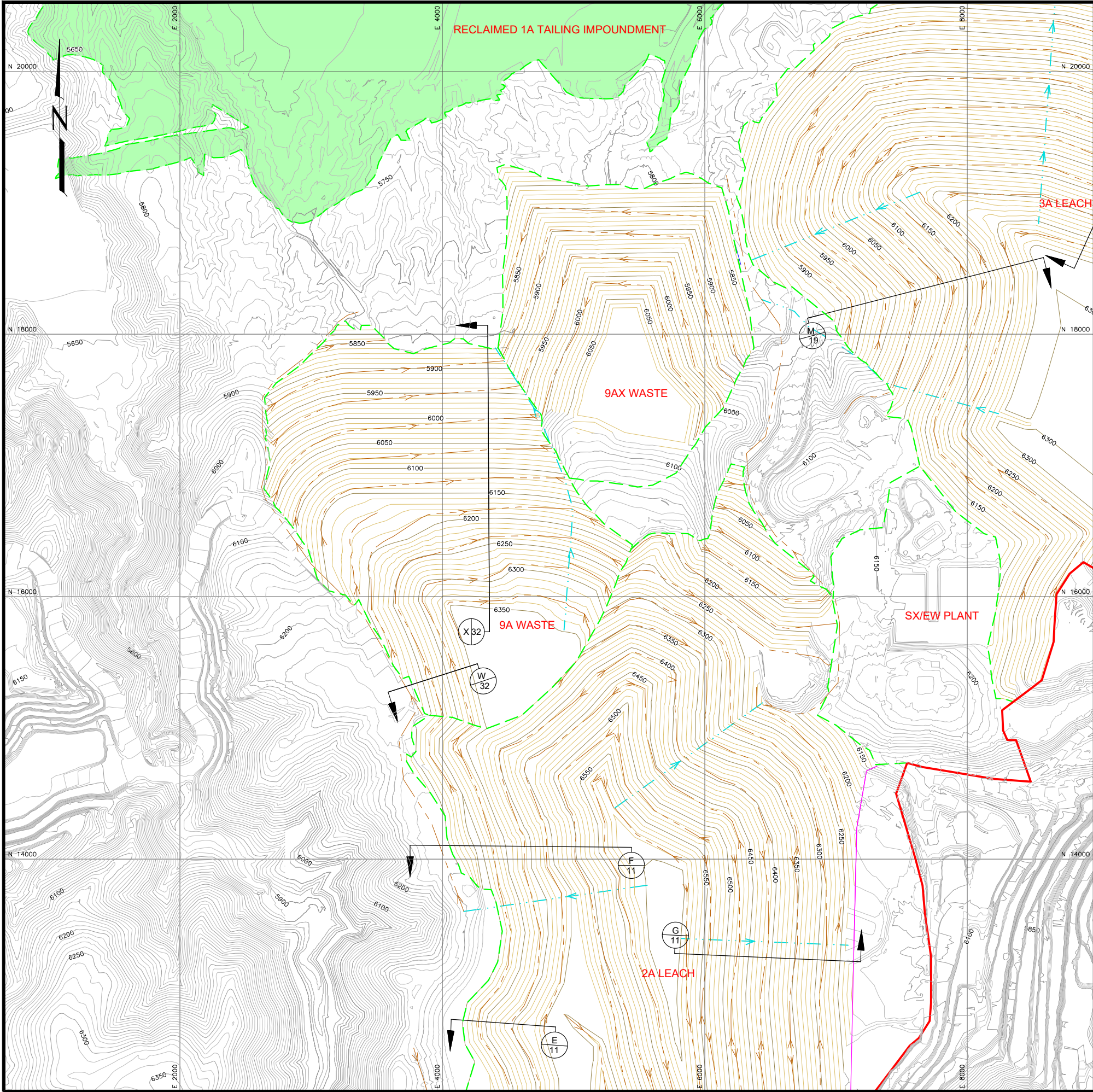


Sheet 29 Of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 29





U:\233001\TYRONE Mine Site Closure Checklist Plan & 2013 Overall Site Regrade-Area Layouts 04/2019

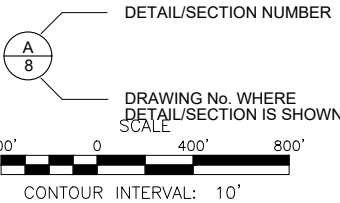


### KEY MAP

### LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CSG LIMITS
- DOWNDRAIN
- BENCH CHANNEL
- INTERIOR FLAT AREA
- RECLAIMED AREAS (2019)

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	L.MOORE		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

**FREEPORT-McMoRAN**  
**TYRONE, INC.**

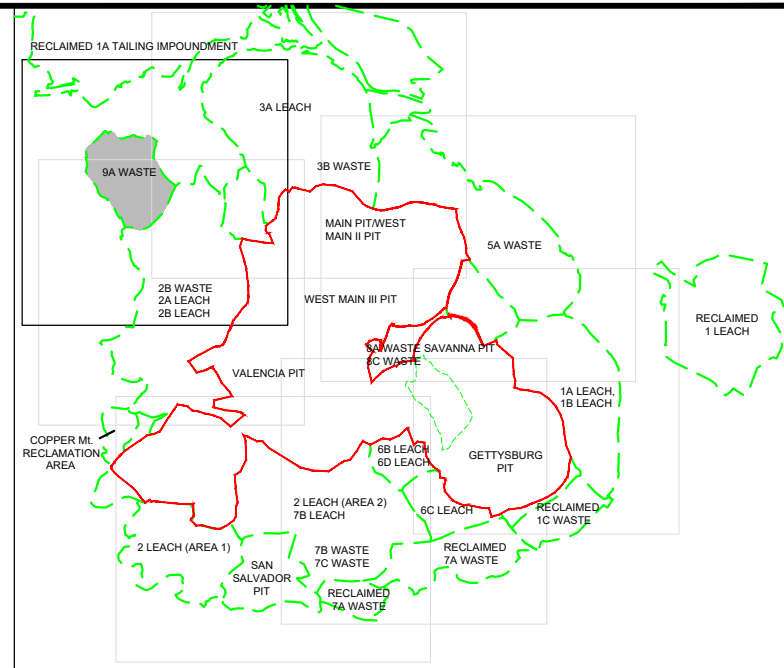
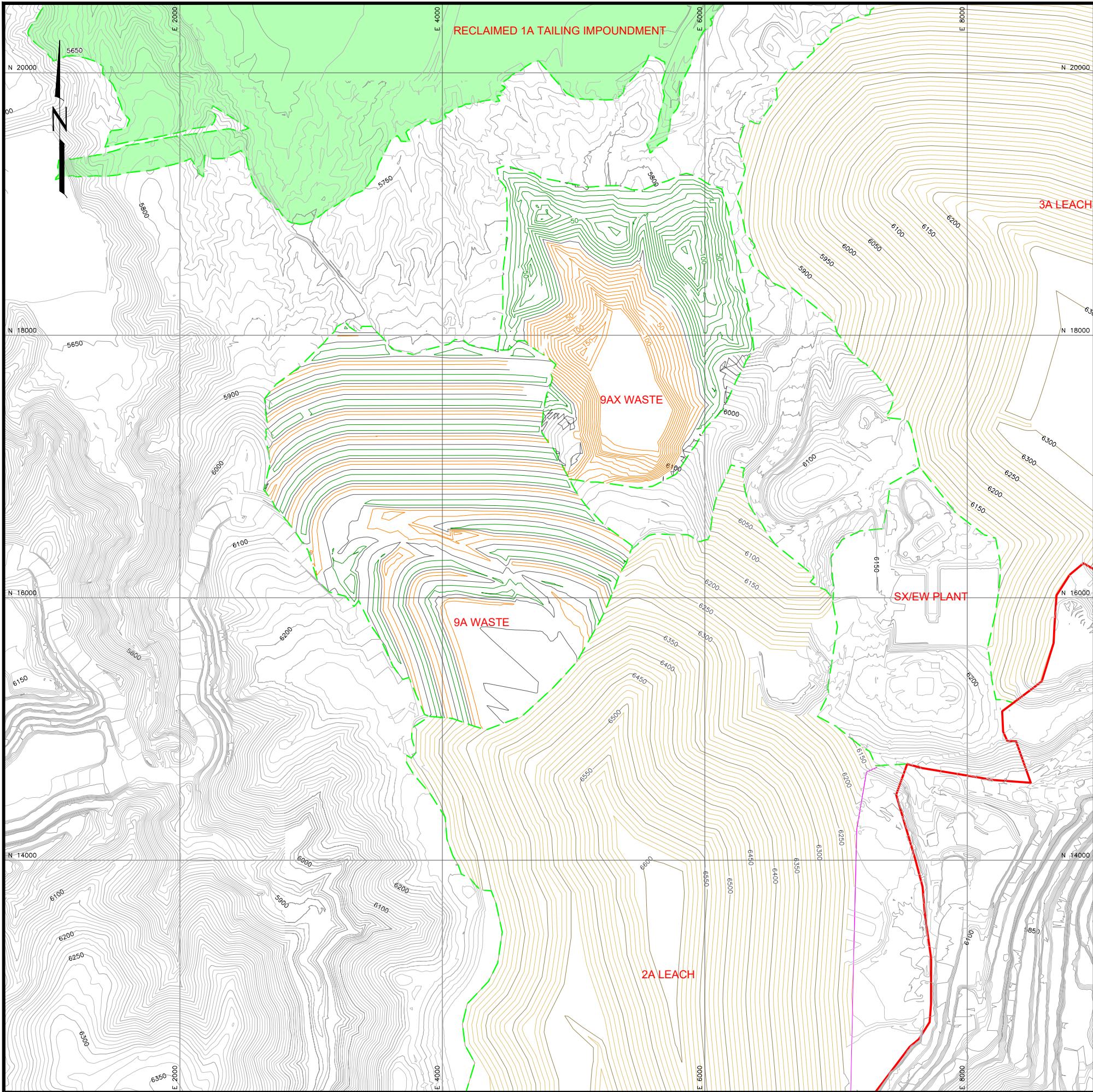
PROJECT: **TYRONE MINE AREA RECLAMATION**  
DRAWING TITLE: **9A WASTE AND 9AX WASTE  
GRADING & DRAINAGE PLAN**

**Stantec**

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



U:\233001\375\Tyronne Mine Site Closure Checklist Plan & 2013\Overall Site Isopachs-LAYOUTS 042019



### KEY MAP

### LEGEND

- 6250 EXISTING CONTOURS
- 6250 REGRADED CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- CUT ISOPACH
- FILL ISOPACH
- ZERO ELEVATION ISOPACH
- INTERIOR FLAT AREA
- CSG LIMITS
- RECLAIMED AREAS (2019)



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



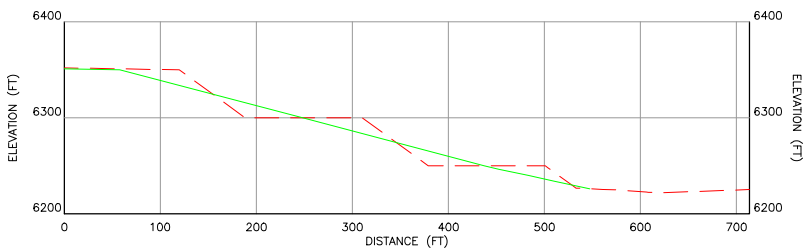
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DRAWING TITLE: 9A WASTE AND 9AX WASTE CUT/FILL ISOPACH MAP



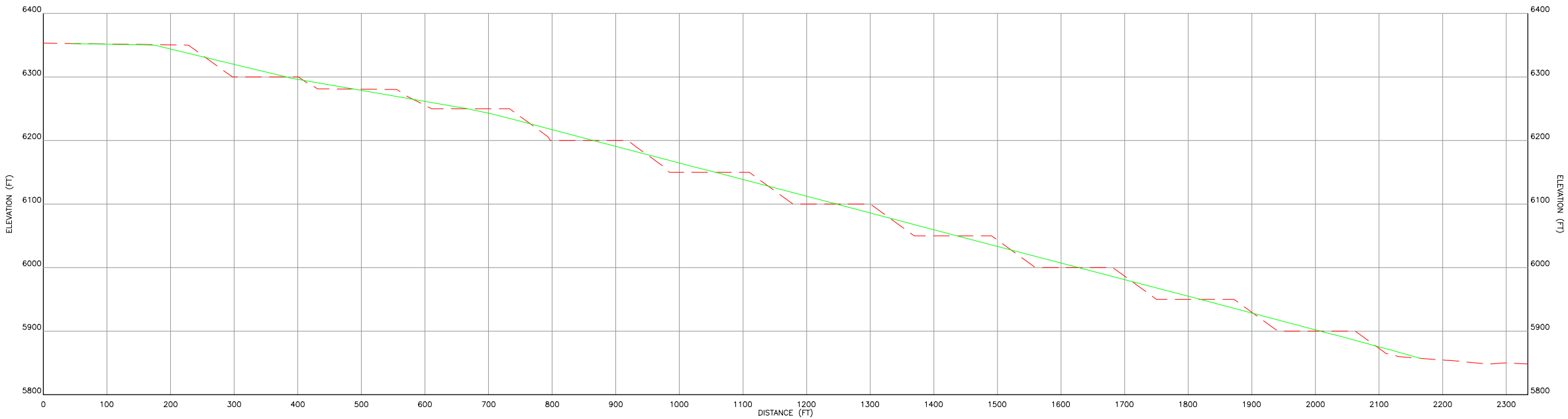
Sheet 31 Of 34 Sheets  
SCALE: 1"=400'  
DRAWING No. 31





W  
30

AREA 9A WASTE - CROSS SECTION W

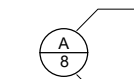


X  
30

AREA 9A WASTE - CROSS SECTION X

LEGEND

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



DRAWING No. WHERE  
DETAIL/SECTION IS SHOWN



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATION	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	06/13	T. LEIDICH	T.LEIDICH		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



**FREEPORT-McMoRAN**  
**TYRONE, INC.**

PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE: **9A WASTE AND 9AX WASTE  
- CROSS SECTIONS**

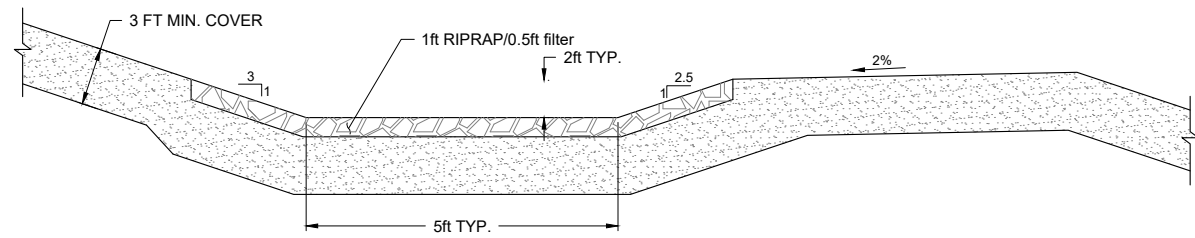


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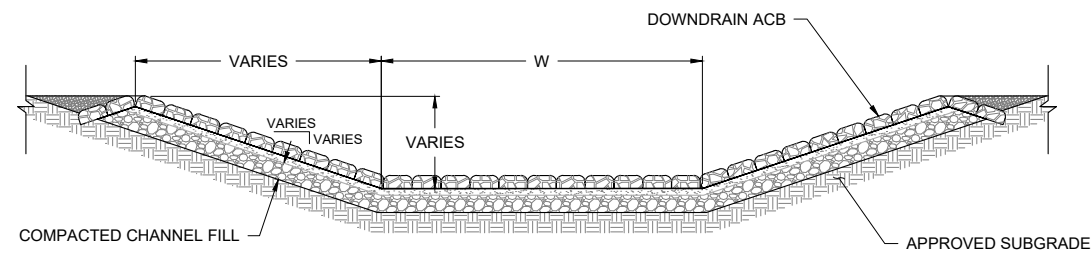
Sheet 32 Of 34 Sheets  
SCALE: 1"=100'  
DRAWING No. 32

- Notes:
- 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
  - For Cross Sections of the 9AX Waste Stockpile, see Figure 5 to Modification 14-1 to Permit GR010RE

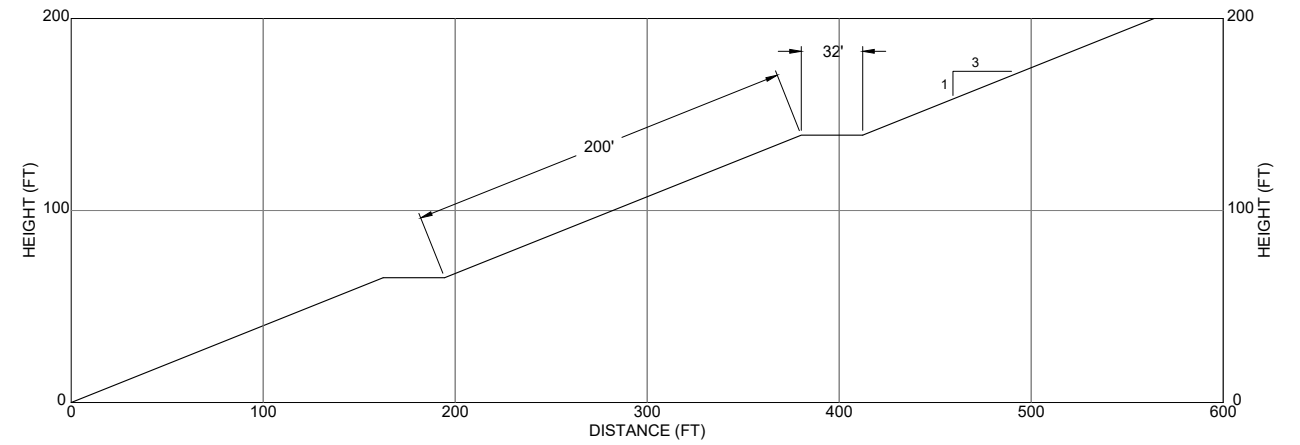




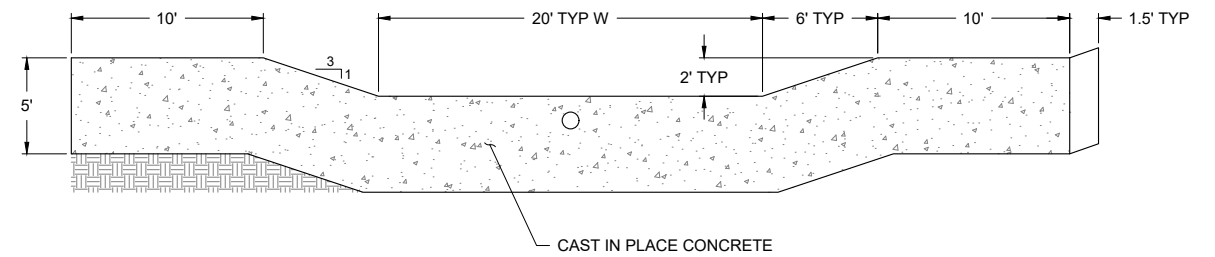
TYPICAL BENCH CHANNEL CROSS SECTION  
NOT TO SCALE



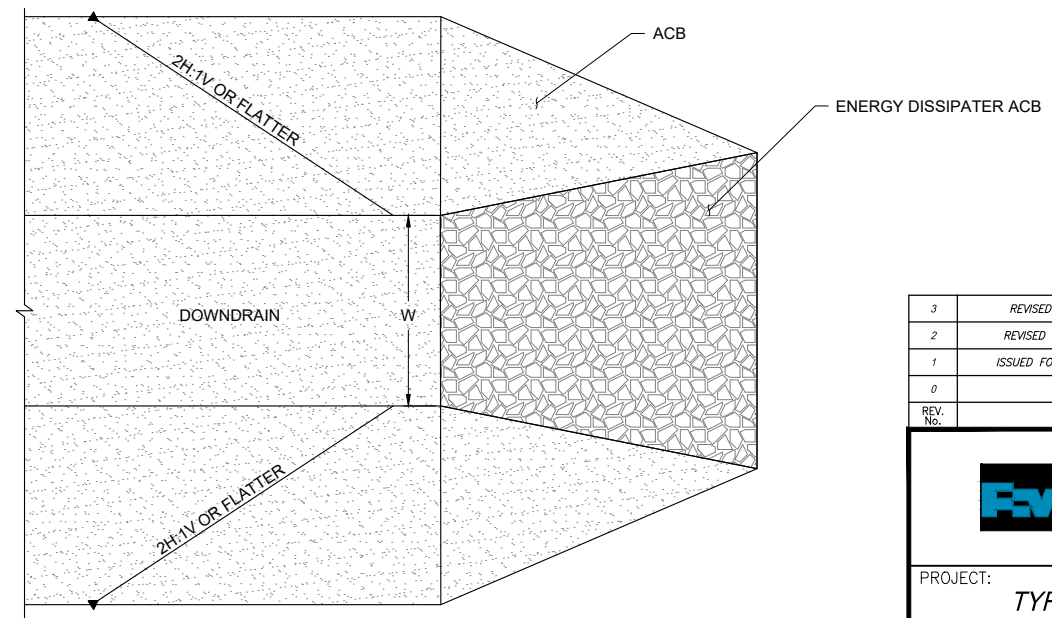
TYPICAL DOWNDRAIN CHANNEL CROSS SECTION  
NOT TO SCALE



TYPICAL SLOPE CONFIGURATION



TYPICAL CUTOFF WALL SECTION



TYPICAL TOE ENERGY DISSIPATOR PLAN DETAIL  
NOT TO SCALE

3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T. LEIDICH		
2	REVISED BOND CALCULATIONS	5/19	T.Leidich	T.Leidich		
1	ISSUED FOR BOND CALCULATION	06/13	T.Leidich	T. Leidich		
0	DRAFT	09/12	T.Leidich	J.Bever		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	

**FREEPORT-McMoRAN**  
**TYRONE, INC.**

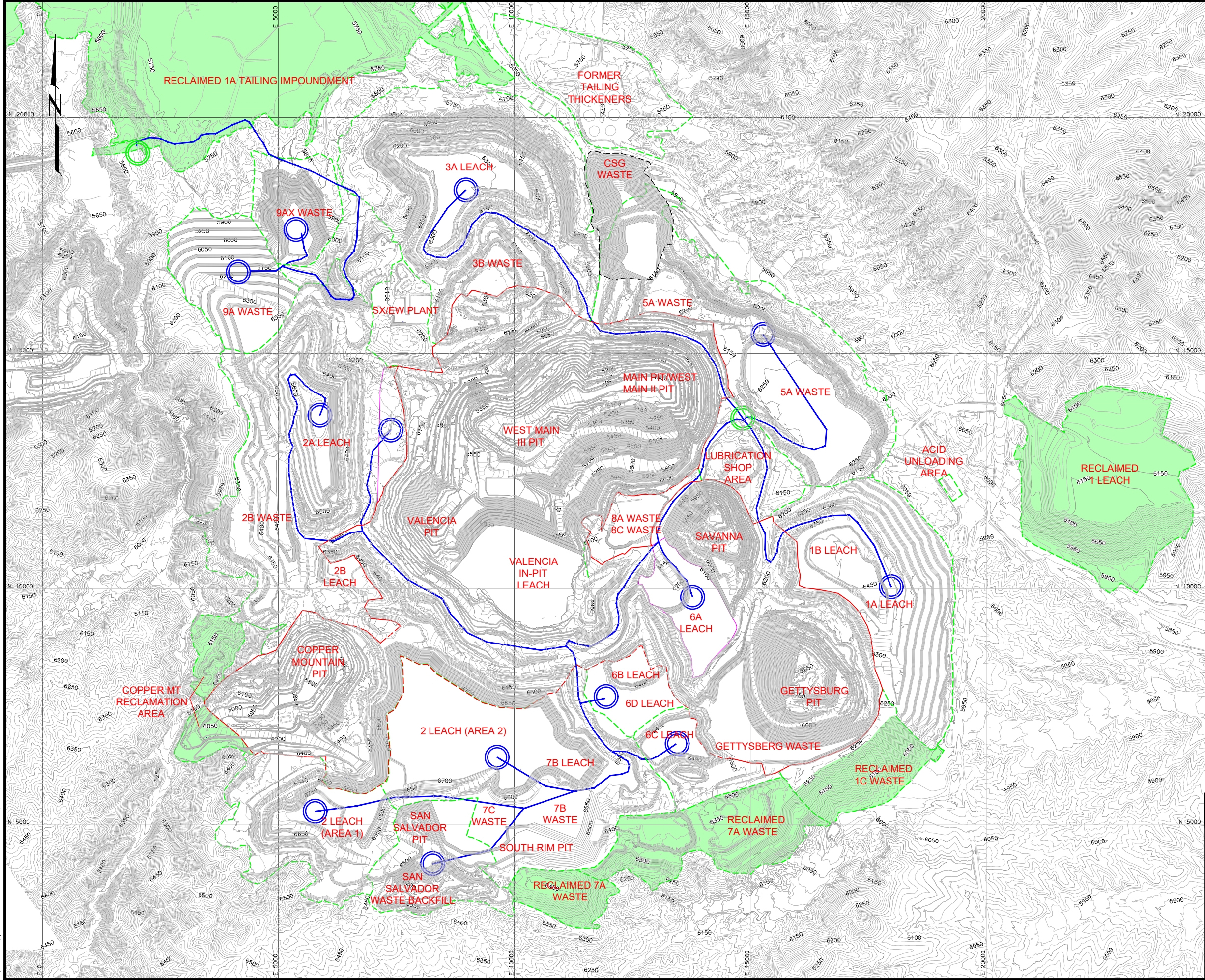
PROJECT: **TYRONE MINE AREA RECLAMATION**

DRAWING TITLE: **DRAINAGE DETAILS**

**Stantec**

Sheet **33** Of **34** Sheets  
SCALE: **AS SHOWN**  
DRAWING No. **33**

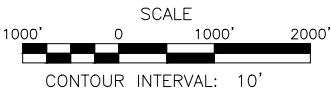




LEGEND

- 6250 EXISTING CONTOURS
- 2013 CONDITIONAL WAIVER AREA
- REVISED CONDITIONAL WAIVER AREA (based on 2014 mine configuration)
- RECLAMATION AREA
- INTERIOR FLAT AREA
- MINE HAUL ROAD
- CENTROID OF RECLAMATION AREA
- CENTER OF BORROW AREA
- RECLAIMED AREAS (2019)

- NOTES:
- THE INDIVIDUAL FACILITY LABEL LOCATIONS ARE APPROXIMATE.
  - FACILITIES SHOWN ARE REPRESENTATIVE OF THE 2014 MINE CONFIGURATION UNLESS OTHERWISE NOTED. THE GETTYSBURG WASTE, VALENCIA IN-PIT LEACH, AND CSG WASTE STOCKPILES WERE PERMITTED AND CONSTRUCTED AFTER 2014 AND THESE FACILITIES ARE SHOWN ON THIS FIGURES FOR REFERENCE. THE CONFIGURATION OF THE GETTYSBURGWASTE, VALENCIA IN-PIT LEACH, AND THE CSG WASTE STOCKPILE REPRESENTS FULL BUILD OUT.
  - THE CSG WASTE STOCKPILE COVERS THE RECLAIMED FORMER MILL CONCENTRATOR.



3	REVISED CLIENT COMMENTS	4/20	A.CROWDER	T.LEIDICH		
2	REVISED BOND CALCULATIONS	5/19	T.LEIDICH	T.LEIDICH		
1	ISSUED FOR BOND CALCULATION	08/14	T.LEIDICH	L.MOORE		
0	DRAFT	09/12	T.LEIDICH	J.BEVER		
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY	



PROJECT: TYRONE MINE AREA RECLAMATION

DRAWING TITLE: HAUL ROUTE MAP

