1. ONLY THOSE SOIL BORING, MONITORING WELLS, PIEZOMETERS, AND TEST PITS LOCATED WITHIN THE AREA OF THE WORK, OR THAT ARE APPLICABLE TO THE WORK, ARE SHOWN.
2. EMBANKMENT DESIGN CONTOURS INDICATE TOP OF PHASE 1 SURFACES AT ELEVATION 4218 AMSL.
3. INITIAL SURVEY WAS CONDUCTED BY NM GROUP, FEB 12, 2015. AN UPDATE SURVEY WAS CONDUCTED BY RBB, MARCH 27, 2019, ALONG THE NORTHWEST CURRENT WASTE POND NORTHERN DIKE.
4. REFER TO C031 FOR CONTROL POINT TABLE.
5. EXTENT OF EMBANKMENT REQUIRED THROUGH BORROW AREA WEST OF STA -5+50 WILL BE FINALIZED AS PART OF PHASE II.

NOTES:

CONTOUR INTERVAL = 2 FOOT

SCALE IN FEET

SOUTH-career WASTE POND

PHASE 1 DESIGN

LEGEND:
- SOIL BORING (DEPTH OF TOP OF CONFINING LAYER)
- MONITORING WELL
- PIEZOMETER
- TEST PIT
- AMSL ABOVE MEAN SEA LEVEL
- EXTENT OF PHASE 1

EXTENT OF PHASE II HBW

OLD WASTE POND

NORTHWEST CURRENT WASTE POND

SOUTHEAST CURRENT WASTE POND

PORTION OF EMBANKMENT WITHIN BORROW AREA TO BE CONSTRUCTED DURING PHASE 2 DESIGN (NOTE 5)

FORMER SKULL VALLEY DIVERSION DITCH (NO LONGER USED)

HYDRAULIC BARRIER DITCH

FORMER SKULL VALLEY DIVERSION DITCH

PORTION OF EMBANKMENT WITHIN BORROW AREA TO BE CONSTRUCTED DURING PHASE 2 DESIGN (NOTE 5)
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

NOTES:

1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.
1. Elevation of Confining Layer is approximate based on soil boring information. Contractor shall verify depth of confining layer during construction.

2. Original ground represents topography prior to Phase 1 embankment construction.
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

STA 25+00.00 TOP OF HBW EL 4218.00 FT

STA 25+00.00 BOTTOM OF HBW EL 4188.29 FT

STA 35+00.00 TOP OF HBW EL 4218.00 FT

STA 35+00.00 BOTTOM OF HBW EL 4183.10 FT

CONFINING LAYER EL 4191.29 FT

CONFINING LAYER EL 4186.10 FT

ORIGINAL GROUND (NOTE 2)

CONTOUR INTERVAL = SCALE IN FEET 1 FOOT

NORTHWEST CURRENT WASTE POND

ORIGINAL GROUND (NOTE 2)
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

1. STA 35+00.00 TOP OF HWY EL 4218.00 FT
2. STA 45+00.00 BOTTOM OF HWY EL 4178.40 FT
3. CONFINING LAYER EL 4186.10 FT
4. CONFINING LAYER EL 4181.40 FT
5. STA 35+00.00 BOTTOM OF HWY EL 4183.10 FT
6. STA 45+00.00 TOP OF HWY EL 4218.00 FT

CONTOUR INTERVAL = 1 FOOT

SCALE IN FEET
CONTOUR INTERVAL = 1 FOOT

1. ELEVATION OF CONFIRMING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFIRMING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

1. ELEVATION OF CONFIRMING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFIRMING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

MARK DATE DESCRIPTION

Checked By: 
Drawn By: 
Project No.: 
Designed By: 

PHASE 2 RETROFITTED WASTE POND HYDRAULIC BARRIER WALL DESIGN

US MAGNESIUM
GRANTSVILLE, UTAH
4750 West 2100 South, Suite 400
Salt Lake City, Utah 84120
PHONE: 801-972-9100

ISSUED FOR CONSTRUCTION 11/12/21
ISSUED FOR CONSTRUCTION 03/30/22

SLURRY WALL PLAN AND PROFILE
STA. 55+00 TO STA. 65+00
NOTES:

1. ELEVATION OF CONFining LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPT. OF CONFining LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

1. ELEVATION OF CONFining LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPT. OF CONFining LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.
PHASE 2 RETROFITTED WASTE POND HYDRAULIC BARRIER WALL DESIGN

US MAGNESIUM
GRANTSVILLE, UTAH

4750 West 2100 South, Suite 400
Salt Lake City, Utah 84120
PHONE: 801-972-9100

ISSUED FOR CONSTRUCTION 11/12/21
ISSUED FOR CONSTRUCTION 03/30/22

SLURRY PLAN AND PROFILE
STA. 75+00 TO STA. 85+00

NOTES:
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

STA 75+00.00
TOP OF HBW
EL 4218.89 FT

STA 85+00.00
TOP OF HBW
EL 4218.89 FT

STA 75+00.00
BOTTOM OF HBW
EL 4169.76 FT

STA 85+00.00
BOTTOM OF HBW
EL 4168.17 FT

CONFINING LAYER (NOTE 1)
EL 4172.76 FT

CONFINING LAYER (NOTE 1)
EL 4171.17 FT

CONFINING LAYER
EL 4173.00 FT

CONFINING LAYER
EL 4168.17 FT

ORIGINAL GROUND (NOTE 2)

EMBANKMENT CENTER (EL 4214 FT)

EMBANKMENT CENTER (EL 4214 FT)

EMBANKMENT CENTER (EL 4214 FT)

EMBANKMENT CENTER (EL 4214 FT)

EMBANKMENT CENTER (EL 4214 FT)

EMBANKMENT CENTER (EL 4214 FT)

EMBANKMENT CENTER (EL 4214 FT)

EMBANKMENT CENTER (EL 4214 FT)
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

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1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

STA 105+45.00
TOP OF ABY
EL 4218.00 FT

STA 105+00.00
BOTTOM OF HBW
EL 4160.70 FT

STA 115+00.00
TOP OF HBW
EL 4218.00 FT

STA 115+00.00
BOTTOM OF HBW
EL 4161.09 FT

EMBANKMENT CENTERLINE EL 4218 FT

CONFINING LAYER EL 4163.70 FT

EXISTING GROUND (SEE NOTE 2)

CONFINING LAYER (SEE NOTE 1)

1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.
1. Elevation of confining layer is approximate based on soil boring information. Contractor shall verify depth of confining layer during construction.

2. Original ground represents topography prior to Phase 1 embankment construction.

Notes:

Old Waste Pond

Original Ground (Note 2)

Confining Layer (Note 1)

STA 115+00.00

Top of HBW

EL 4218.00 FT

STA 125+00.00

Bottom of HBW

EL 4161.67 FT

STA 115+00.00

Top of HBW

EL 4218.00 FT

STA 125+00.00

Top of HBW

EL 4218.00 FT

Confining Layer (Note 1)

Confining Layer EL 4164.67 FT

Original Ground (Note 2)

Confining Layer EL 4164.09 FT

STA 115+00.00

Bottom of HBW

EL 4161.09 FT

STA 125+00.00

Bottom of HBW

EL 4161.67 FT

117-8733003 - CQA AND EOR SERVICES

PHASE 2 RETROFITTED WASTE POND HYDRAULIC BARRIER WALL DESIGN

US MAGNESIUM

GRANTSVILLE, UTAH

4750 West 2100 South, Suite 400
Salt Lake City, Utah 84120
PHONE: 801-972-9100

0 11/12/21

1 03/30/22

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3/31/2022 8:41 AM - C:\_R-DRIVE_\T-Z\US MAGNESIUM LLC\117-8733003 - CQA AND EOR SERVICES\07-CAD\SHEETFILES\PHASE 2\RWP-SLURRY WALL-C016 SLURRY WALL PLAN AND PROFILE STA 115+00 TO 125+00.DWG
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

STA 125+00.00 TO STA 135+00.00

- TOP OF HBW EL 4218.00 FT
- BOTTOM OF HBW EL 4160.71 FT
- TOP OF HBW EL 4218.00 FT
- BOTTOM OF HBW EL 4161.67 FT
- SB-13 EL 4159.79 FT

CONFINING LAYER EL 4163.71 FT
CONFINING LAYER EL 4164.67 FT
CONFINING LAYER EL 4164.79 FT
CONFINING LAYER EL 4162.71 FT

NOTES:

- MARK DATE
- DESCRIPTION
- CHECKED BY
- DRAWN BY
- PROJECT NO.
- DESIGNED BY

PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN
US MAGNESIUM
GRANTSVILLE, UTAH
4750 West 2100 South, Suite 400
Salt Lake City, Utah 84120
PHONE: 801-972-9100

ISSUED FOR CONSTRUCTION 03/30/22
ISSUED FOR CONSTRUCTION 11/12/21

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SLURRY WALL PLAN AND PROFILE STA 125+00 TO STA 135+00
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

- STA 135+00
  - Top of HW
  - EL 4218.00 FT

- STA 145+00
  - Top of HW
  - EL 4218.00 FT

- STA 142+42.69
  - Bottom of HW
  - EL 4159.71 FT

- EL 4162.71 FT

EMBANKMENT

- CREST EL 4216.71 FT

CONFINING LAYER

- EL 4163.71 FT

ORIGINAL GROUND (NOTE 2)

CONFINING LAYER (NOTE 1)

SB-14

TD EL 4159.21 FT
PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER DESIGN

US MAGNESIUM
GRANTSVILLE, UTAH
4750 West 2100 South, Suite 400
Salt Lake City, Utah 84120
PHONE: 801-972-9100

NOTES:
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

STA 145+00.00
TOP OF HBW
EL 4218.00 FT

STA 155+00.00
BOTTOM OF HBW
EL 4161.82 FT

CONFINING LAYER (NOTE 1)
EL 4164.82 FT

EMBANKMENT CREST EL 4219 FT

ORIGINAL GROUND (NOTE 2)

MARK DATE DESCRIPTION

CHECKED BY:
DRAWN BY:
PROJECT NO.
DESIGNED BY:

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NOTES:

1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

CONTOUR INTERVAL = 1 FOOT

---

STA 155+00.00 TO STA 165+00.00

TOP OF HBW EL 4218.00 FT

CONFINING LAYER EL 4166.50 FT

STA 165+00.00

TOP OF HBW EL 4218.00 FT

CONFINING LAYER EL 4164.82 FT

STA 155+00.00

BOTTOM OF HBW EL 4161.82 FT

---

EMBANKMENT CENTER EL 4216.77 FT

CONFINING LAYER EL 4164.82 FT

ORIGINAL GROUND (NOTE 2)

CONFINING LAYER (NOTE 1)

MATCHLINE STA 155+00 SHEET C019

MATCHLINE STA 165+00 SHEET C021
NOTES:

1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

1. CHECKED BY:
2. DRAWN BY:
3. PROJECT NO.:
4. DESIGNED BY:

PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN
US MAGNESIUM
GRANTSVILLE, UTAH

4750 West 2100 South, Suite 400
Salt Lake City, Utah 84120
PHONE: 801-972-9100

ISSUED FOR CONSTRUCTION
CT 1 03/30/22
CT 0 11/12/21

SLURRY WALL PLAN AND PROFILE
STA. 165+00 TO STA. 175+00
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

- **Matchline STA 175+00**: Sheet C021
- **Matchline STA 185+00**: Sheet C023

**General Information**

- **Project No.**: 117-8733003 - CQA AND EOR SERVICES
- **Sheet**: PHASE 2\RWP-SLURRY WALL-C022 SLURRY WALL PLAN AND PROFILE STA 175+00 TO 185+00.DWG
- **Copyright Tetra Tech**

**Design Details**

- **HBW Centerline**: EMBANKMENT CREST EL 4218 FT
- **CONFINING LAYER**: EL 4168.18 FT
- **STA 175+00.00**: Bottom of HBW EL 4165.18 FT
- **STA 185+00.00**: Top of HBW EL 4218.00 FT

**Scale**

- **Scale in Feet**: 1 FOOT

**Bar Measures**

- **1 inch**

**References**

- Tetra Tech
- US MAGNESIUM
- Grantville, Utah
- 4750 West 2100 South, Suite 400
- Salt Lake City, Utah 84120
- Phone: 801-972-9100

**Dates**

- **03/30/22**: ISSUED FOR CONSTRUCTION
- **11/12/21**: ISSUED FOR CONSTRUCTION
NOTES:

1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

1. STA 185+00.00
   TOP OF HBW
   EL 4218.00 FT

2. STA 195+00.00
   BOTTOM OF HBW
   EL 4168.58 FT

3. STA 185+00.00
   TOP OF HBW
   EL 4218.00 FT

4. STA 195+00.00
   BOTTOM OF HBW
   EL 4168.58 FT

5. EL 4218 FT

6. HBW CENTERLINE

7. EMBANKMENT CREST EL 4218 FT

8. ORIGINAL GROUND (NOTE 2)

9. CONFINING LAYER (NOTE 1)

10. CONFINING LAYER
    EL 4171.58 FT

11. STA 185+00.00
    BOTTOM OF HBW
    EL 4166.78 FT

12. CONFINING LAYER
    EL 4169.78 FT

13. CONFINING LAYER
    EL 4167.00 FT

14. MATCHLINE STA
    185+00 SHEET C022

15. MATCHLINE STA
    195+00 SHEET C024

16. EMBANKMENT CENTERLINE

17. CENTERLINE

18. EMBANKMENT CENTERLINE

19. CENTERLINE

20. CENTERLINE

21. CENTERLINE

22. CENTERLINE

23. CENTERLINE

24. CENTERLINE

25. CENTERLINE

26. CENTERLINE

27. CENTERLINE

28. CENTERLINE

29. CENTERLINE

30. CENTERLINE

31. CENTERLINE

32. CENTERLINE

33. CENTERLINE

34. CENTERLINE

35. CENTERLINE

36. CENTERLINE

37. CENTERLINE

38. CENTERLINE

39. CENTERLINE

40. CENTERLINE

41. CENTERLINE

42. CENTERLINE

43. CENTERLINE

44. CENTERLINE

45. CENTERLINE

46. CENTERLINE

47. CENTERLINE

48. CENTERLINE

49. CENTERLINE

50. CENTERLINE
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

- STA 195+00.00:
  - Top of HBW: EL 4218.00 FT
  - Bottom of HBW: EL 4168.58 FT

- STA 205+00.00:
  - Top of HBW: EL 4218.00 FT
  - Bottom of HBW: EL 4170.23 FT

- CONFINING LAYER:
  - EL 4170.23 FT

- ORIGINAL GROUND:
  - EL 4171.58 FT

- MATCHLINE STA 195+00 SHEET C023

- MATCHLINE STA 205+00 SHEET C025

- Bar Measures 1 inch
NOTES:

1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

- STA 205+00.00
  - TOP OF HBW
  - EL 4218.00 FT

- STA 215+00.00
  - BOTTOM OF HBW
  - EL 4172.00 FT

- STA 215+00.00
  - TOP OF HBW
  - EL 4218.00 FT

- STA 212+80.25
  - BOTTOM OF HBW
  - EL 4171.63 FT

- EL 4175.00 FT
  - CONFINING LAYER

- EL 4173.23 FT
  - CONFINING LAYER

- EL 4170.23 FT
  - BOTTOM OF HBW

- TD EL 4169.63 FT

- SB-16

- CONFINING LAYER (NOTE 1)

- CONFINING LAYER (NOTE 2)

- CONTOUR INTERVAL = 1 FOOT

- SCALE IN FEET

- EMBANKMENT CREST EL 4218.00 FT

- MATCHLINE STA
  - STA 205+00 SHEET C024
  - STA 215+00 SHEET C026

- OLD WASTE POND

- SOUTHEAST CURRENT WASTE POND

- HBW CENTERLINE

- CREST EL 4218 FT

- CENTERLINE

- EMBANKMENT

- CREATION

- EL 4175.00 FT

- BASEMENT

- EL 4172.00 FT

- BASEMENT

- EL 4170.23 FT

- BASEMENT
HBW CENTERLINE

CONFINING LAYER
EL 4177.63 FT

STA 225+00.00
TOP OF HBW
EL 4218.00 FT

CONFINING LAYER
EL 4175.00 FT

STA 215+00.00
BOTTOM OF HBW
EL 4172.00 FT

MATCHLINE STA 215+00 SHEET C025
MATCHLINE STA 225+00 SHEET C027

NOTES:

1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.
SOUTHEAST CURRENT WASTE POND

CONFINING LAYER (NOTE 1)
EL 4177.21 FT
STA 235+00.00

TOP OF HBW
EL 4218.00 FT

BOTTOM OF HBW
EL 4174.63 FT
STA 225+00.00

CONFINING LAYER
EL 4177.63 FT
STA 225+00.00

EMBANKMENT CREST EL 4216.00 FT

ORIGINAL GROUND (NOTE 2)

ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

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2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

HBW CENTERLINE
EMBANKMENT CREST EL 4218 FT

SOUTHEAST CURRENT WASTE POND

PROJECT NO.: CT 117-8733003

US MAGNESIUM LLC
GRANTSVILLE, UTAH

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Salt Lake City, Utah 84120
PHONE: 801-972-9100

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PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN

Phase 2 Retrofitted Waste Pond
Hydraulic Barrier Wall Design

SLURRY WALL PLAN AND PROFILE
STA. 225+00 TO STA 235+00

CHECKED BY:

DRAWN BY:

DESIGNED BY:

PROJECT NO.: CT 117-8733003

ISSUED FOR CONSTRUCTION

3/31/2022 9:06 AM

C:\_R-DRIVE\_T-Z\US MAGNESIUM LLC\117-8733003 - CQA AND EOR SERVICES\07-CAD\SHEETFILES\PHASE 2\RWP-SLURRY WALL-C027 SLURRY WALL PLAN AND PROFILE STA 225+00 TO 235+00.DWG
SOUTHEAST CURRENT WASTE POND

STA 235+00.00
TOP OF HBW
EL 4218.00 FT

CONFINING LAYER
EL 4182.78 FT
STA 245+00.00
BOTTOM OF HBW
EL 4179.78 FT

ORIGINAL GROUND (NOTE 2)

CONFINING LAYER
EL 4180.21 FT
STA 235+00.00
BOTTOM OF HBW
EL 4177.21 FT

NOTES:

1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:
MARK DATE DESCRIPTION

CHECKED BY:

DRAWN BY:

DESIGNED BY:

ISSUED FOR CONSTRUCTION

PHASE 2 RETROFITTED WASTE POND HYDRAULIC BARRIER WALL DESIGN

US MAGNESIUM
GRANTSVILLE, UTAH

4750 West 2100 South, Suite 400
Salt Lake City, Utah 84120
PHONE: 801-972-9100

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3/31/2022 9:07 AM - C:\_R-DRIVE_\T-Z\US MAGNESIUM LLC\117-8733003 - CQA AND EOR SERVICES\07-CAD\SHEETFILES\PHASE 2\RWP-SLURRY WALL-C028 SLURRY WALL PLAN AND PROFILE STA 235+00 TO 245+00.DWG

Bar Measures 1 inch
CONTOUR INTERVAL = SCALE IN FEET 1 FOOT

ORIGINAL GROUND (NOTE 2)

CONFINING LAYER (NOTE 1)

STA 245+00.00
TOP OF HBW
EL 4218.00 FT

CONFINING LAYER
EL 4182.78 FT

STA 246+00.00
TOP OF HBW
EL 4180.57 FT

CONFINING LAYER
EL 4183.57 FT

STA 248+05.81
BOTTOM OF HBW
EL 4180.57 FT

CONFINING LAYER
EL 4179.56 FT

STA 253+36.00
BOTTOM OF HBW
EL 4180.57 FT

CONFINING LAYER
EL 4183.57 FT

STA 253+36.00
END HBW
TOP OF HBW
EL 4218.00 FT

EMBANKMENT CREST EL 4218 FT

MATCHLINE STA

245+00 SHEET C028

SOUTHEAST CURRENT WASTE POND

1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.

2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

NOTES:

MARK DATE DESCRIPTION

BY

Checked By:

Drawn By:

Project No.:

Designed By:

Copyright Tetra Tech
LEGEND:

- HBW: Hydraulic Barrier Wall
- AMSL: Above Mean Sea Level
- BGS: Below Ground Surface
- STA: Station
- ELEV: Elevation
- MIN: Minimum
- OWP: Old Waste Pond

NOTES:

1. Top of confining layer shall be verified during excavation by sampling excavation poils.
2. HBW shall extend one shovel length (a minimum of 3 ft) into confining layer.
3. Subgrade preparation to be performed in accordance with Earthworks Specification 02222.
4. HBW shall be a minimum of 2.5' wide but may be increased to accommodate contractor equipment.
5. HBW to be installed in accordance with Specification 02266-Hydraulic Barrier Wall.

OVER-EXCAVATE TO 2' BGS AND RECOMPACT

APPROX. 1/8 OF HBW

HBW MIXING PAD

HBW TRENCHING PAD

TYPICAL EMBANKMENT DETAIL

STA 45+00 TO STA 95+48

TYPICAL EMBANKMENT DETAIL

STA 95+00 TO STA 183+48

TYPICAL EMBANKMENT DETAIL

STA 183+48 TO STA 253+38

2.5' (NOTE 4)

FORMER SKULL VALLEY DIVERSION DITCH

CWP PERIMETER ACCESS ROAD

(TO BE USED AS HBW MIXING PAD)

APPROX. 1/8 OF HBW

TYPICAL EMBANKMENT DETAIL

STA 45+00 TO STA 95+48

TYPICAL EMBANKMENT DETAIL

STA 95+00 TO STA 183+48

TYPICAL EMBANKMENT DETAIL

STA 183+48 TO STA 253+38

2.5' (NOTE 4)
### Embankment Boring Information

<table>
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<tr>
<th>ID</th>
<th>Surface Elevation (FT)</th>
<th>Top of Confirming Layer Elevation (FT)</th>
<th>Total Depth Elevation (FT)</th>
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1. Bottom elevation of HBW is based on the elevation of the confining layer. The confining layer elevation is approximate and based on soil boring information. Contractor shall verify depth of confining layer during construction.

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**NOTE:**

Bottom elevation of HBW is based on the elevation of the confining layer. The confining layer elevation is approximate and based on soil boring information. Contractor shall verify depth of confining layer during construction.