

DRAWING INDEX

DRAWING NUMBER	DRAWING TITLE
MT13-AC-01	GENERAL SITE PLAN AND DRAWING INDEX
MT13-AC-02	MINE WATER TREATMENT UNIT (MWTU) UPGRADES
MT13-AC-03	MWTU - SEDIMENTATION PONDS
MT13-AC-03A	MWTU - TYPICAL POND LAYOUT
MT13-AC-04	MWTU - IX PLANT AND RADIUM REMOVAL PONDS
MT13-AC-05	MWTU - CLEAN WATER HOLDING PONDS AND DISTRIBUTION
MT13-AC-06A	POND LINER DETAILS-A
MT13-AC-06B	POND LINER DETAILS-B
MT13-AC-07	HYDRAULIC CONTROL STRUCTURES MODIFICATION DETAILS
MT13-AC-08	SOUTH WASTE ROCK PILE AT MINE REACTIVATION -PLAN VIEW
MT13-AC-09	SOUTH WASTE ROCK PILE AT MINE REACTIVATION -SECTIONS
MT13-AC-10	NORTH WASTE PILE - PLAN VIEW
MT13-AC-11	NORTH WASTE PILE - SECTIONS
MT13-AC-12	ORE PAD AND APPURTENANT FACILITIES - PLAN VIEW
MT13-AC-13	ORE PAD AND APPURTENANT FACILITIES - SECTIONS
MT13-AC-14	SURFACE GRADING AND DRAINAGE UPGRADES
MT13-AC-15	ORE PAD RUNOFF COLLECTION AND RETENTION
MT13-AC-16	SOUTH STORM WATER RETENTION POND

LEGEND

- Mine Surface Units Area
- Dewatering Wells
- Ponds
- Support Buildings
- Mine Shaft

NOT FOR CONSTRUCTION



500' GRID = NAD 83 NEW MEXICO WEST

REV	DESCRIPTION	DATE	DRAWN BY	ENGINEER	APPROVED	<div><div></div><div><b>RIO GRANDE RESOURCES CORPORATION</b></div><div>MOUNT TAYLOR MINE - San Mateo, NM 87020</div></div>	PROJECT TITLE: <b>MT. TAYLOR MINE MINE REACTIVATION PLAN</b>		SHEET TITLE: <b>GENERAL SITE PLAN AND DRAWING INDEX</b>	REV <b>2</b>
0	Final	3-15-13	EL	AK	AK	Prepared By:	SIZE <b>B</b>	SCALE: As Shown		
1	2013 Review Comments	12-17-13	EL	AK	AK	Alan Kuhn Associates LLC	DWG NO. <b>MT13-AC-01</b>			
2	Add Mo/Se Building	6-24-15	EL	AK	AK					



MARQUEZ CANYON

EXISTING STORM WATER DIVERSION CHANNEL

COUNTY ROAD 334

Ore Pad

Truck Wash

Pond 1

Mo/Se Building

IX BUILDING

Pond 3

Pond 5

Pond 4

Ponds 6 & 7

TREATED WATER DISCHARGE PIPE

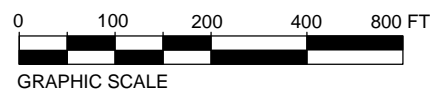
PUMP HOUSE

South Storm Water Retention Pond

## UPGRADES

- ALL MINE WATER TREATMENT PONDS (PONDS 1-8) AND ORE PAD RUNOFF RETENTION POND
  - REMOVE ALL BRUSH AND VEGETATION.
  - REPAIR OR REPLACE EXISTING CONCRETE HYDRAULIC STRUCTURES (SEE NOTE 5)
  - REMOVE SEDIMENTS FROM THE PONDS AND PLACE IN DISPOSAL CELL IN THE SOUTH WASTE ROCK AREA.
  - GRADE THE POND BOTTOM TO SLOPE 1% TOWARDS THE SUMP AREA.
  - POND SLOPES TO BE 3H TO 1V
  - PONDS 1-5 AND 8 TO RECEIVE A DOUBLE LINER SYSTEM
  - PONDS 6 AND 7 TO RECEIVE A SINGLE LINER
- REMOVE 48" CONCRETE PIPE AND REDIRECT STORM WATER TO SOUTH STORM WATER RETENTION POND
- INSTALL NEW 36" CMP PIPE AND MANHOLES
- PIPING, PUMPING AND MECHANICAL SYSTEMS UPGRADE AS NEEDED
- POND HYDRAULIC STRUCTURES (ALL PONDS) (MT13-AC-07)
  - REPAIR DAMAGED CONCRETE
  - ADD NEW CONCRETE SPILLWAYS AND CURB FOR LINER CONNECTIONS
  - APPLY POLIBRID COATING ON ALL CONCRETE SURFACES
  - REPLACE STEEL STRUCTURES WITH NEW CONCRETE STRUCTURES AS NEEDED
- ORE PAD WITH TRUCK WASH (MT13-AC-12)  
GRADED TO DRAIN TO COLLECTION POINTS - INSTALL LINER
- STORM WATER SYSTEM TO CONVEY ORE PAD AND TRUCK WASH RUNOFF TO ORE PAD RUNOFF RETENTION POND
- ADDITIONAL BYPASS PIPING AROUND POND 5
- NEW MO/SE ADSORPTION BUILDING (PLANS BY OTHERS)

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0	FINAL	3-15-13	EL	AK	AK
1	Review Comments	12-17-13	EL	AK	AK
2	Add Mo/Se Adsorption Bldg.	6-24-15	EL	AK	AK



**RIO GRANDE RESOURCES CORPORATION**  
MOUNT TAYLOR MINE - San Mateo, NM 87020

Prepared By:  
Alan Kuhn Associates LLC

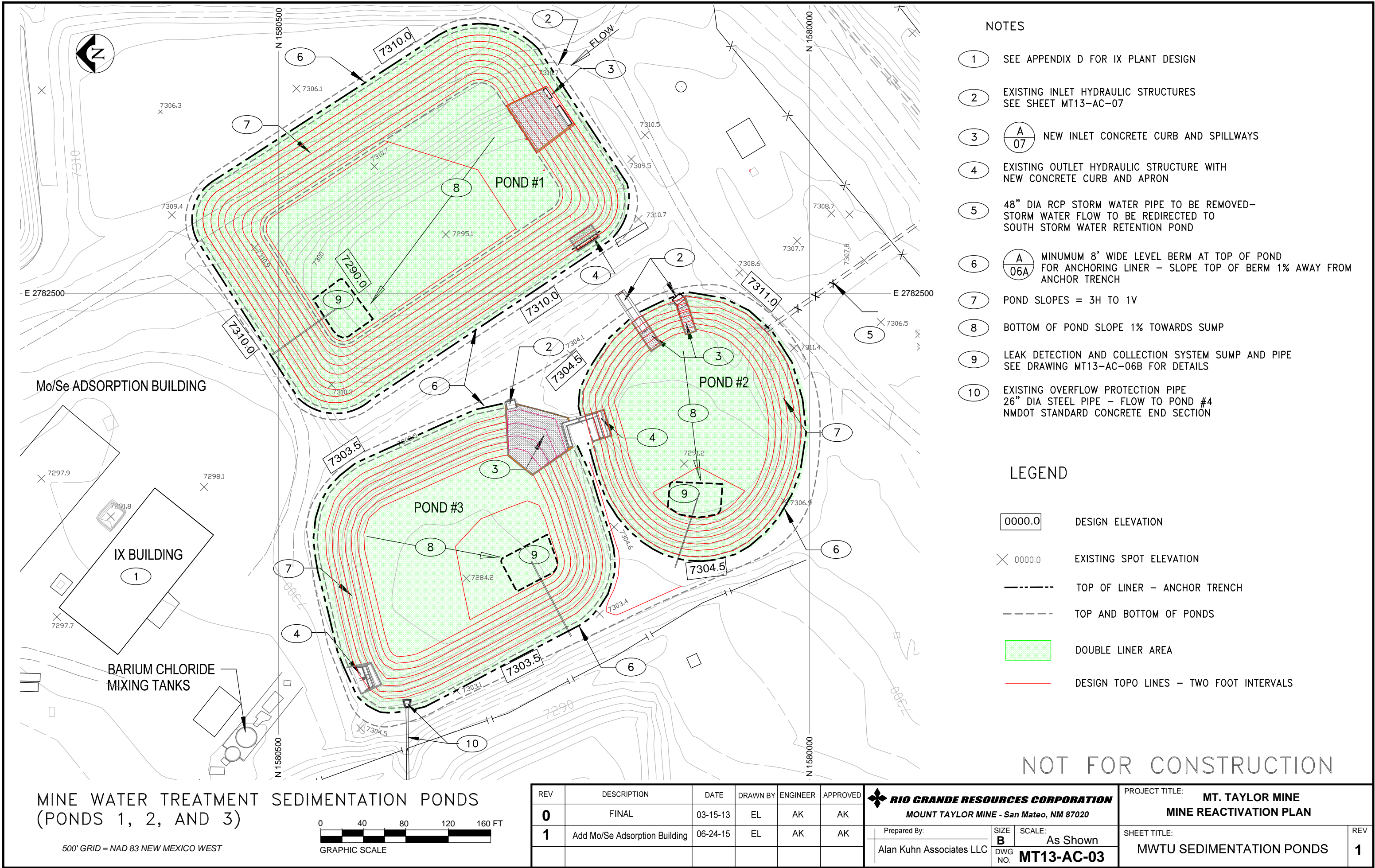
SIZE  
DWG NO. **B**  
SCALE:  
**As Shown**  
**MT13-AC-02**

PROJECT TITLE:  
**MT. TAYLOR MINE  
MINE REACTIVATION PLAN**

SHEET TITLE:  
**MINE WATER TREATMENT UNIT  
(MWTU) UPGRADES**

REV  
**2**





NOTES

- 1 SEE APPENDIX D FOR IX PLANT DESIGN
- 2 EXISTING INLET HYDRAULIC STRUCTURES  
SEE SHEET MT13-AC-07
- 3  $\frac{A}{07}$  NEW INLET CONCRETE CURB AND SPILLWAYS
- 4 EXISTING OUTLET HYDRAULIC STRUCTURE WITH  
NEW CONCRETE CURB AND APRON
- 5 48" DIA RCP STORM WATER PIPE TO BE REMOVED-  
STORM WATER FLOW TO BE REDIRECTED TO  
SOUTH STORM WATER RETENTION POND
- 6  $\frac{A}{06A}$  MINIMUM 8' WIDE LEVEL BERM AT TOP OF POND  
FOR ANCHORING LINER - SLOPE TOP OF BERM 1% AWAY FROM  
ANCHOR TRENCH
- 7 POND SLOPES = 3H TO 1V
- 8 BOTTOM OF POND SLOPE 1% TOWARDS SUMP
- 9 LEAK DETECTION AND COLLECTION SYSTEM SUMP AND PIPE  
SEE DRAWING MT13-AC-06B FOR DETAILS
- 10 EXISTING OVERFLOW PROTECTION PIPE  
26" DIA STEEL PIPE - FLOW TO POND #4  
NMDOT STANDARD CONCRETE END SECTION

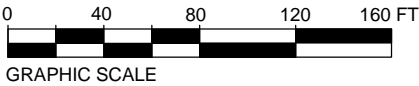
LEGEND

- 0000.0 DESIGN ELEVATION
- X 0000.0 EXISTING SPOT ELEVATION
- TOP OF LINER - ANCHOR TRENCH
- - - TOP AND BOTTOM OF PONDS
- DOUBLE LINER AREA
- DESIGN TOPO LINES - TWO FOOT INTERVALS

NOT FOR CONSTRUCTION

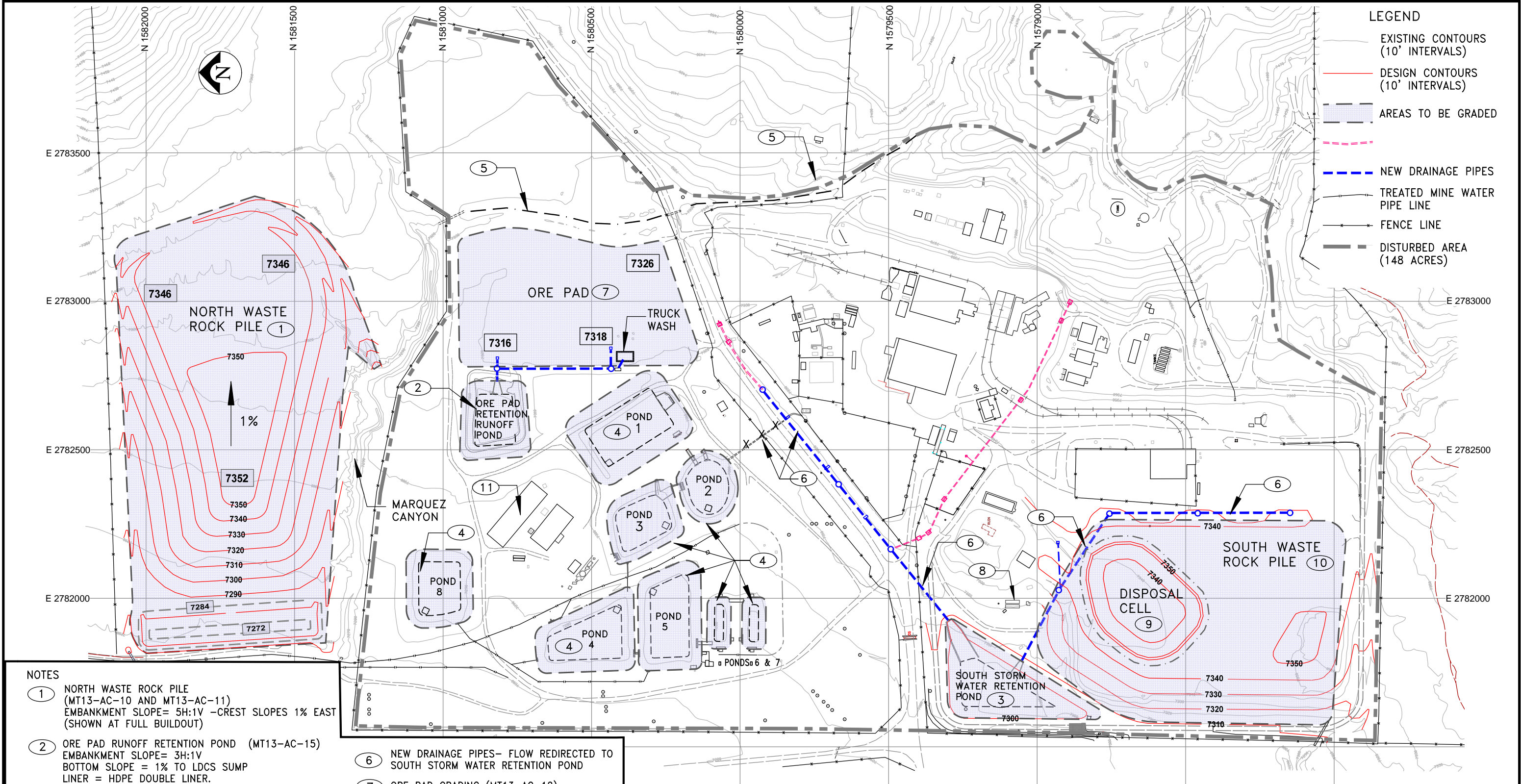
MINE WATER TREATMENT SEDIMENTATION PONDS  
(POND #1, POND #2, POND #3)

500' GRID = NAD 83 NEW MEXICO WEST



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0	FINAL	03-15-13	EL	AK	AK				SHEET TITLE: <b>MWTU SEDIMENTATION PONDS</b>	REV <b>1</b>
1	Add Mo/Se Adsorption Building	06-24-15	EL	AK	AK	Prepared By: Alan Kuhn Associates LLC	SIZE <b>B</b> DWG NO. <b>MT13-AC-03</b>	SCALE: As Shown		

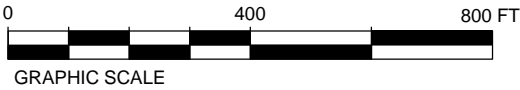




NOTES


- 1 NORTH WASTE ROCK PILE (MT13-AC-10 AND MT13-AC-11)  
EMBANKMENT SLOPE= 5H:1V -CREST SLOPES 1% EAST (SHOWN AT FULL BUILDOUT)
- 2 ORE PAD RUNOFF RETENTION POND (MT13-AC-15)  
EMBANKMENT SLOPE= 3H:1V  
BOTTOM SLOPE = 1% TO LDGS SUMP  
LINER = HDPE DOUBLE LINER.
- 3 SOUTH STORM WATER RETENTION POND (MT13-AC-16)  
EMBANKMENT SLOPE= 4H:1V  
LINER = 1' COMPACTED CLAY
- 4 MINE WATER TREATMENT PONDS (MT13-AC-03, 03A, 04 AND 05)  
EMBANKMENT SLOPE 3H:1V  
BOTTOM SLOPE = 1% TO LDGS SUMP  
DOUBLE HDPE LINER (PONDS 1-5 AND 8)  
SINGLE HDPE LINER (PONDS 6 AND 7)
- 5 DRAINAGE DIVERSION CHANNEL TO REMAIN

- 6 NEW DRAINAGE PIPES- FLOW REDIRECTED TO SOUTH STORM WATER RETENTION POND
- 7 ORE PAD GRADING (MT13-AC-12)
- 8 SEWAGE TREATMENT PLANT (STP)
- 9 SEDIMENT IN PONDS TO BE REMOVED AND PLACED IN DISPOSAL CELL IN SOUTH WASTE ROCK PILE
- 10 SOUTH WASTE ROCK PILE (MT13-AC-08 AND MT13-AC-09)  
EMBANKMENT SLOPE= 5H:1V  
CREST SLOPES 1% EAST (SHOWN AT REACTIVATION STAGE)
- 11 NEW MO/SE ADSORPTION BUILDING (DESIGN BY OTHERS)



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<b>0</b>	FINAL	03-15-13	EL	AK	<table border="1"><tr><td>Prepared By:</td><td>SIZE <b>B</b></td><td>SCALE: <b>As Shown</b></td></tr><tr><td>Alan Kuhn Associates LLC</td><td>DWG NO. <b>MT13-AC-14</b></td><td></td></tr></table>			Prepared By:	SIZE <b>B</b>	SCALE: <b>As Shown</b>	Alan Kuhn Associates LLC	DWG NO. <b>MT13-AC-14</b>		SHEET TITLE: <b>SURFACE GRADING AND DRAINAGE UPGRADES</b>		REV
Prepared By:	SIZE <b>B</b>	SCALE: <b>As Shown</b>														
Alan Kuhn Associates LLC	DWG NO. <b>MT13-AC-14</b>															
<b>1</b>	2013 Review Comments	03-15-13	EL	AK			<b>2</b>									
<b>2</b>	Add Mo/Se Adsorption Building	06-24-15	EL	AK												