



STATE OF
COLORADO

Ebert - DNR, Jared <jared.ebert@state.co.us>

Berthoud Sunset, M-1994-080, TR02 Adequacy Review No. 2

Troy Campbell <tcampbell@coffey-engineering.com>

Tue, Nov 21, 2017 at 1:29 PM

To: "Ebert - DNR, Jared" <jared.ebert@state.co.us>

Cc: "dewey.chandler (dewey.chandler@arkinsparkstone.com)" <dewey.chandler@arkinsparkstone.com>

Jared,

Please see attached revised plans and response letter.

If you need additional information, please don't hesitate to contact us.

Thanks,

Troy

970-622-2095 [O] 970-217-9148 [M]

TCampbell@Coffey-Engineering.com

From: Ebert - DNR, Jared [mailto:jared.ebert@state.co.us]

Sent: Wednesday, November 15, 2017 1:44 PM

To: Dewey Chandler <dewey.chandler@arkinsparkstone.com>

Cc: Troy Campbell <tcampbell@coffey-engineering.com>

Subject: Berthoud Sunset, M-1994-080, TR02 Adequacy Review No. 2

Hello Dewey,

[Quoted text hidden]

2 attachments



BerthoudSunset_M1994080_Response_2017-11-21.pdf
105K



BerthoudSunset_M1994080_ExhibitE_2017-11-21.pdf
512K

November 21, 2017

**RESPONSE TO COMMENTS DATED NOVEMBER 15, 2017 FOR:
Berthoud Sunset, M-1994-080, Technical Revision No. 2 (TR02), Adequacy Review No. 1**

Original comments are incorporated into the response.

General Requirements

1. Both maps should be labeled Exhibit E, in accordance with Rule 6.3.5.
RESPONSE: Both maps are now labeled Exhibit E.
2. Please insure the maps meet the minimum requirements of Rule 6.2.1(2)
RESPONSE: Applicable information from Rule 6.2.1(2) has been included on the maps.

Rule 6.3.5(2) – Mining Plan Map

3. Please label the names of owner(s) of record of the surface of the affected area and of the land within two hundred (200) feet of the affected area, identify the owner of the substance to be mined, and the type of structure and owners of record of any permanent or man-made structures within 200 feet of the affected area.
RESPONSE: The names of the owners of record of the surface and of the land within 200' have been added to the Map. The owner of the substance mined has been added. There are no permanent or man-made structures within 200' of the affected area.
4. Please outline and label all major surface features to be used in connection with the proposed operation such as: existing and proposed roads, pit boundary, topsoil stockpiles, overburden stockpiles, product stockpiles, waste rock fills, stream channels, buildings, processing plant, underground openings such as adits or ventilation facilities, ponds, impoundments, dewatering pumps, diversions or waste disposal areas;
RESPONSE: The applicable major surface features have been added to the plan. Information was also added in the notes on the plan.
5. Please indicate the direction that construction material extraction will proceed.
RESPONSE: The direction for material extraction has been added.
6. Please note the location of any significant, valuable, and permanent man-made structures within two hundred (200) feet of the affected area.
RESPONSE: There are no permanent or man-made structures within 200' of the affected area.
7. Please outline and label existing disturbance within and/or adjacent to the permit boundary (e.g., previously mined areas, roads or excavations resulting from utility construction).
RESPONSE: Existing disturbed areas are being shown on the plan.

Rule 6.3.5(3) – Reclamation Plan Map

8. Please show the gradient of all reclaimed slopes (horizontal:vertical) sufficient to describe the post mine topography.

RESPONSE: The gradient has been added to the plan.

9. Please state the average thickness of replaced overburden by reclamation area or phase.

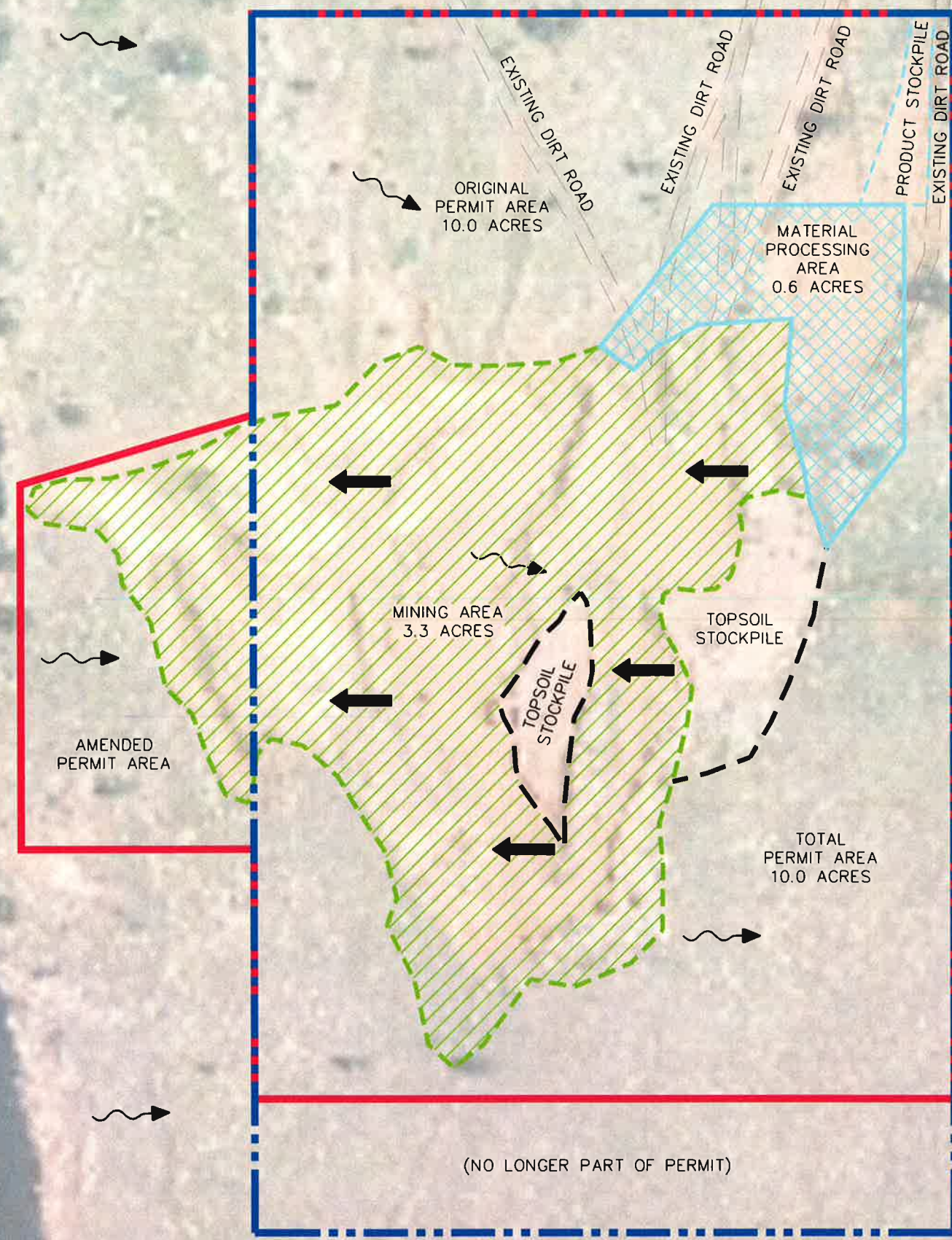
RESPONSE: The average thickness of overburden is 2".

10. Please state the average thickness of replaced topsoil by reclamation area or phase.

RESPONSE: The average thickness of topsoil is 2".

LIST OF XREFS: [XR-SS_TBLK-11x17-2186.02] [2186.02-2186.02] [2186.02-Topo01] [2186.02-SS-EXH_BNDY] [2186.02-SS-EXH_BNDY]

PARCEL #0428000044
OWNERS: MIKE &
TERI HANRATTY



PARCEL #0428000046
OWNERS: J A M
QUARRIES, LLC

LEGEND:

- ORIGINAL PERMIT BOUNDARY
- AMENDED PERMIT BOUNDARY
- PARCEL LINE
- MINING AREA/PIT BOUNDARY (ACTIVE)
- MATERIAL PROCESSING AREA
- TOPSOIL STOCKPILE
- PRODUCT STOCKPILE
- FLOW ARROW
- DIRECTION OF MINING/EXTRACTION

NOTES

- ON THE QUARRY SITE THERE IS SPARSE EXISTING VEGETATION CONSISTING OF ANNUALS, SAGE AND A FEW HARDY GRASSES. NEARBY THE SITE EXISTING VEGETATION CONSISTS OF GRIFFITHS WHEATGRASS, BIG AND LITTLE BLUESTEM, BLUE GRAMA, SIDE OATS GRAMA GRASSES, MOUNTAIN MAHOGANY, PONDEROSA PINE AND SHRUBS.
- THE ACCESS ROAD GOES THROUGH THE OLD BERTHOUD PINK QUARRIES (SAME OWNER) TO ACCESS THIS AREA AND CONNECTS TO OLD ACCESS ROADS THAT HAVE BEEN THERE FOR OVER 50 YEARS. NO IMPROVEMENT OR WIDENING IS NECESSARY ON THE EXISTING ROAD BEDS. THIS ACCESS ROAD WILL REMAIN IN PLACE AFTER THE FINAL MINING AND RECLAMATION PROCESS IS COMPLETE.
- AFFECTED AREA LAND OWNER: J A M QUARRIES, LLC
- MINED SUBSTANCE OWNER: BLM
- THERE ARE NO SIGNIFICANT, VALUABLE OR PERMANENT MAN-MADE STRUCTURES WITHIN 200 FEET OF THE AFFECTED AREA.
- OVERBURDEN AND WASTE ROCK AREAS AREA WITHIN THE MINING AREA/PIT BOUNDARY.



EXHIBIT PREPARED BY: TROY W. CAMPBELL, P.E. #41159

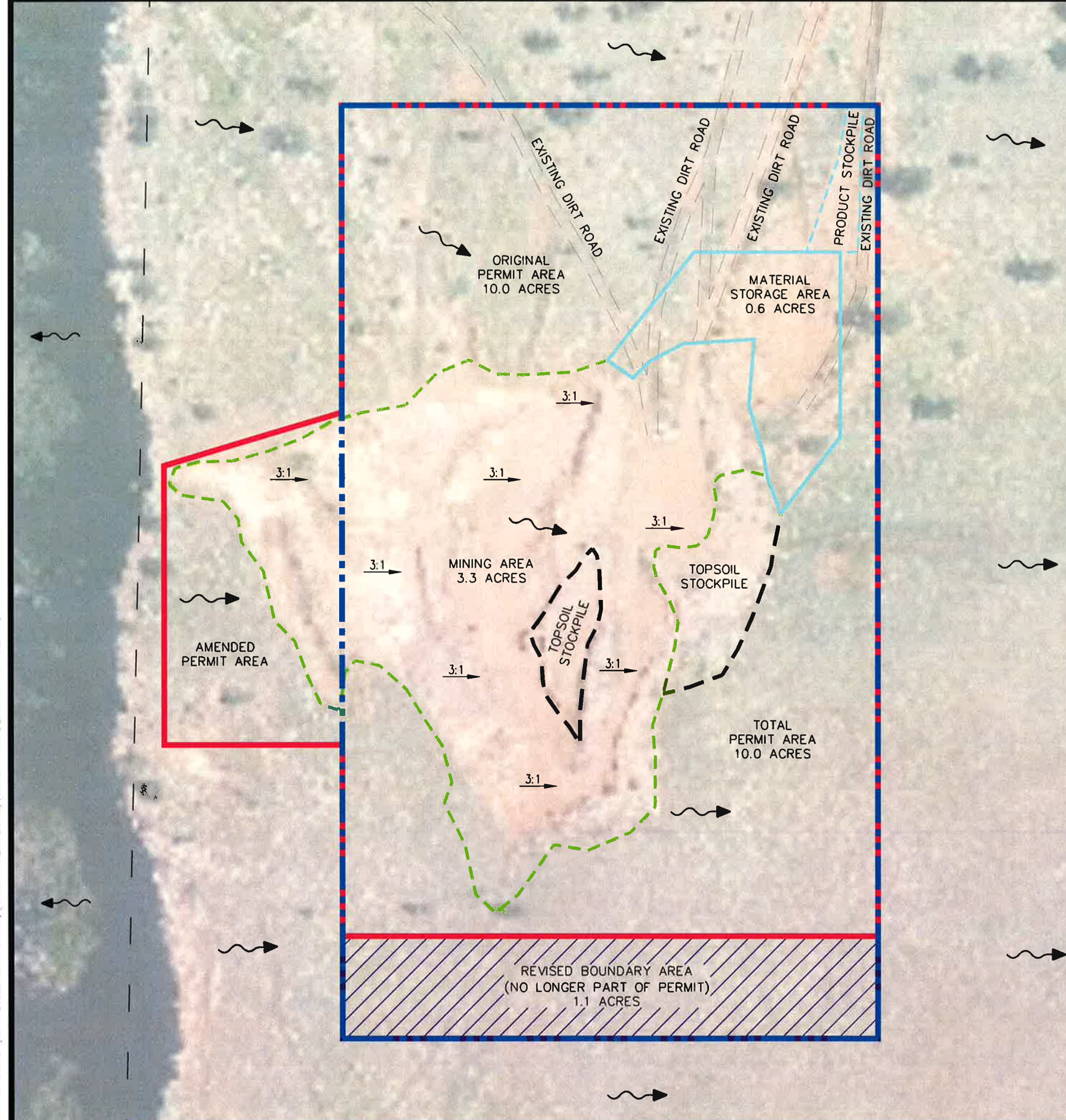
Project: 2186.02
Drawing: SS_EXH
Drafted By: CJD
Date Prep: 11/20/17
Checked By: TWC

MINING PLAN MAP
SUNSET QUARRY
APPLICANT: ARKINS PARK STONE, DEWEY CHANDLER
LOCATED IN THE SE/4 OF SECTION 28, TOWNSHIP 4 NORTH, RANGE 70 WEST
OF THE 6TH P.M., COUNTY OF LARIMER, STATE OF COLORADO



EXHIBIT:
E
Sheet: 1 of 2

LIST OF XREFS: [XR-SS-11x17-2186 02] [2186 02-SP-SIX BNDY] [2186 02-TOPD01] [2186 02-SS-EXH-BNDY]



LEGEND:

	ORIGINAL PERMIT BOUNDARY	10.0 ACRES
	AMENDED PERMIT BOUNDARY	10.0 ACRES
	PARCEL LINE	
	MINING AREA/PIT BOUNDARY (ACTIVE)	3.3 ACRES
	MATERIAL STORAGE AREA	0.6 ACRES
	REVISED BOUNDARY AREA	1.1 ACRES
	TOPSOIL STOCKPILE	0.5 ACRES
	PRODUCT STOCKPILE	0.1 ACRES
	FLOW ARROW	
	TOPOGRAPHIC SLOPE	

AREA SUMMARY

ORIGINAL PERMIT AREA:	10.0 ACRES
AMENDED PERMIT AREA:	10.0 ACRES
TOTAL PERMIT AREA PROPOSED:	10.0 ACRES

NOTES

- ON THE QUARRY SITE THERE IS SPARSE EXISTING VEGETATION CONSISTING OF ANNUALS, SAGE AND A FEW HARDY GRASSES. NEARBY THE SITE EXISTING VEGETATION CONSISTS OF GRIFFITHS WHEATGRASS, BIG AND LITTLE BLUESTEM, BLUE GRAMA, SIDE OATS GRAMA GRASSES, MOUNTAIN MAHOGANY, PONDEROSA PINE AND SHRUBS.
- THE ACCESS ROAD GOES THROUGH THE OLD BERTHOUD PINK QUARRIES (SAME OWNER) TO ACCESS THIS AREA AND CONNECTS TO OLD ACCESS ROADS THAT HAVE BEEN EXISTING FOR OVER 50 YEARS. NO IMPROVEMENT OR WIDENING IS NECESSARY ON THE EXISTING ROAD BEDS. THIS ACCESS ROAD WILL REMAIN IN PLACE AFTER THE FINAL MINING AND RECLAMATION PROCESS IS COMPLETE.
- STRIPPED TOPSOIL AND CRUSHER FINES TAKEN FROM THE ACTIVE WORKING DECKS WILL BE STORED IN THE DESIGNATED AREA UNTIL IT IS NEEDED FOR RECLAMATION. IT WILL BE PROTECTED WITH "J" DAMS AROUND THE PERIMETER. IF THE TOPSOIL IS NOT NEEDED FOR RECLAMATION WITHIN A YEAR OF ITS PLACEMENT, IT WILL BE RE-SEEDING WITH THE APPROVED "HIGH PLAINS/FOOTHILLS GRASS MIX" TO HELP PREVENT EROSION.
- OVERBURDEN AND WASTE ROCK AREAS AREA WITHIN THE MINING AREA/PIT BOUNDARY.
- RECLAIMED AREAS WILL BE GRADED TO SUBSTANTIALLY MATCH TOPOGRAPHY PRIOR TO MINING AND TIE TO EXISTING GRADE AT EDGES.
- THE AVERAGE THICKNESS OF REPLACED OVERBURDEN BY RECLAMATION AREA OR PHASE IS 2 INCHES.
- THE AVERAGE THICKNESS OF REPLACED TOPSOIL BY RECLAMATION AREA OR PHASE IS 2 INCHES.
- EXISTING SLOPES SHOWN ARE APPROXIMATE.

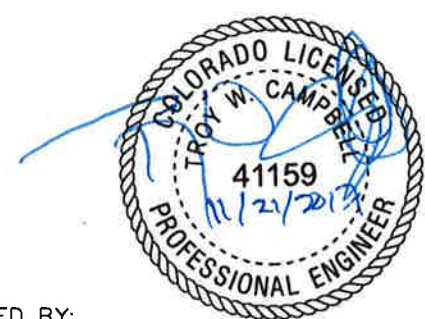
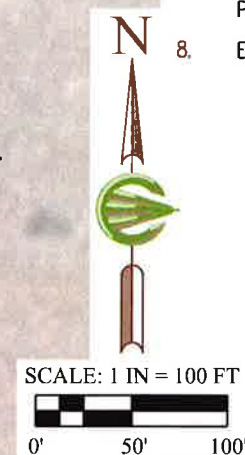


EXHIBIT PREPARED BY: TROY W. CAMPBELL, P.E. #41159

Project: 2186.02
Drawing: SS_EXH
Drafted By: CJD
Date Prep.: 11/20/17
Checked By: TWC

RECLAMATION PLAN MAP

SUNSET QUARRY

APPLICANT: ARKINS PARK STONE, DEWEY CHANDLER
LOCATED IN THE SE/4 OF SECTION 28, TOWNSHIP 4 NORTH, RANGE 70 WEST
OF THE 6TH P.M., COUNTY OF LARIMER, STATE OF COLORADO

COFFEY
ENGINEERING & SURVEYING
4045 St. Cloud Drive, Suite 180
Loveland, CO 80538 - 970-622-2095

EXHIBIT:
E

Sheet: 2 of 2