



Castle Aggregate

549 East Cucharas, Street Colorado Springs, CO 80919 Ph:719-598-0215 Fax:719-598-3053

February 9, 2021

Colorado Division of Reclamation Mines and Safety
Attn: Patrick Lennberg
Room 215
1313 Sherman Street
Denver CO 80203

RE: Preliminary Adequacy Response (AM-05), Pueblo East, Permit No. M-1986-015

Dear Patrick:

Attached are the responses to the first adequacy review of our amendment application for your review. The narrative and maps are separate files due to size restraints. Please contact me with any questions.

Sincerely,

Jerald Schnabel

Jerald Schnabel, President
Castle Aggregate
549 Cucharas Street
Colorado Springs CO 80919
Email: Jerald_schnabel@castleaggregate.com



Castle Aggregate

549 East Cucharas, Street Colorado Springs, CO 80919 Ph:719-598-0215 Fax:719-598-3053

October 2, 2020

Colorado Division of Reclamation Mines and Safety
Attn: Patrick Lennberg
Room 215
1313 Sherman Street
Denver CO 80203

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Colorado Springs CO 80919
Email: Jerald_schnabel@castleaggregate.com

Receipt

Pueblo County Clerk

Signature

Debrah Estrada Date *2/9/2021*

Name Print

Debrah Estrada

Date: February 9, 2021

Colorado Division of Reclamation, Mining and Safety
Attn: Mr. Patrick Lennberg
1313 Sherman St, Room 215
Denver, CO 80203

Dear Patrick:

RE: Preliminary Adequacy Response (AM-05), Pueblo East, Permit No. M-1986-015

Dear Mr. Lennberg,

Following are our responses to the Division of Reclamation, Mining and Safety's (DRMS) comments on our Amendment Application, AM-05 for the Pueblo East Permit, Permit No. M1986-015.

DRMS Adequacy Comments:

Application Page:

- *Primary Mine Entrance Location. On page two, the coordinates of the mine entrance given do not match the mine entrance coordinates that were given by Dan Tucker in an email dated November 3, 2020. Please update with correct coordinates, 38°16'15.22" N, 104°32'58.60" W.*
 - Response:
 - ✓ The coordinates for the entrance to the property will be:
38 degrees 16 minutes 15.22 seconds north
Based on Google Earth I have: 38° 16' 15.26" N
104 degrees 32 minutes 59.60 seconds west 104° 32' 58.53" W, which gives the location on the attached Google Earth photo. I would include something similar.



Will this be Amended under CMC?

- 2 -

6. **Name of owner of subsurface rights of affected land:** Continental Materials Corp
If 2 or more owners, "refer to Exhibit O".
7. **Name of owner of surface of affected land:** Continental Materials Corp
8. **Type of mining operation:** ☒ Surface ☐ Underground
9. **Location Information:** The center of the area where the majority of mining will occur:
COUNTY: Pueblo
PRINCIPAL MERIDIAN (check one): ☒ 6th (Colorado) ☐ 10th (New Mexico) ☐ Ute
SECTION (write number): S 35
TOWNSHIP (write number and check direction): T 20 ☐ North ☒ South
RANGE (write number and check direction): R 64 ☐ East ☒ West
QUARTER SECTION (check one):
QUARTER/QUARTER SECTION (check one):

☐	☐	☐	☐
NE	NW	SE	SW

GENERAL DESCRIPTION: (the number of miles and direction from the nearest town and the approximate elevation): _____
2 miles east of Pueblo Colorado
10. **Primary Mine Entrance Location** (report in either Latitude/Longitude **OR** UTM):
Latitude/Longitude:
Example: (N) 39° 44' 12.98"
(W) 104° 59' 3.87"
Latitude (N): deg 38 min 16 sec 15.26 (2 decimal places)
Longitude (W): deg 104 min 32 sec 58.53 (2 decimal places)
OR
Example: (N) 39.73691°
(W) -104.98449°
Latitude (N) _____ (5 decimal places)
Longitude (W) _____ (5 decimal places)
OR
Universal Transverse Mercator (UTM)
Example: 201336.3 E NAD27 Zone 13
4398351.2 N
UTM Datum (specify NAD27, NAD83 or WGS 84) Nad 83 Zone 13
Easting _____
Northing _____

- 2. *In the incompleteness response dated October 28, 2020, the operator states that no trucks will use the new mine entrance. Please clarify how heavy equipment will access the site given the amount of reclamation work remaining to be done at the site.*
 - Response:
 - ✓ The new entrance will not be used for aggregate trucks hauling from this site. Construction trucks will be using this entrance to deliver equipment to complete the water storage project.
 - ✓ All operating traffic for the water storage project in the future will be using the new entrance.
 - ✓ At times it may be allowed by Aggregate Industries to access the site through the ready-mix plant site.
- *Exhibit A – Legal Description (Rule 6.4.1)*
 - Response:

No change to the legal description.
- 3. *Please provide the missing mine entrance location coordinates.*
 - Response:

Please see our first response above which show the mine access point coordinates.

Exhibit B – Index Map (Rule 6.4.2)

- 4. *Please provide an updated Index Map that depicts the current approved permit boundary along with acreage. The map provided depicts the cement plant being in the permit boundary.*
 - Response: Reference, Pueblo East Pits, Amendment 5, Index Map B-1

EXHIBIT C – Pre-mining and Mining Plan Map(s) of Affected Lands (Rule 6.4.3)

- Response:
 - ✓ With the exception of new structures, we request the DRMS not require a new Exhibit D – Mine Plan Map. We agree new Pre-mine and Reclamation Maps are needed. Any new permanent, man-made structures will be shown on the new Pre-mine Map.
 - ✓ In essence, this is a reclamation only permit amendment.
 - ✓ No mining shall occur since all the available resource within Phases 1, 2 and 7 has been removed. Any material on the site will be used to meet backfill requirements. It would be more expensive to sell material, have it hauled off-site, then have to buy material and have it brought back onto the site.
 - ✓ Backfilling and grading will occur using on-site, available material.

- 5. Please provide a map or maps, meeting the requirements specified in Rule 6.2.1(2), depicting the following:
 - all adjoining surface owners of record;
 - the name and location of all creeks, roads, buildings, oil and gas wells and lines, and power and communication lines on the area of affected land and within two hundred (200) feet of all boundaries of such area;

➤ Response: Reference, Pueblo East Pits, Amendment 5, Pre-mine, C-1
- The existing topography of the area with contour lines of sufficient detail to portray the direction and rate of slope of the affected land;

➤ Response: Reference, Pueblo East Pits, Amendment 5, Pre-mine, C-1
- the total area to be involved in the operation and the area of affected lands;

➤ Response: Total area of affected land is 341 acres

 - ✓ Is this the total acreage or a map?
 - ✓ Revised Map C
- the type of present vegetation covering the affected lands;

➤ Response:

 - ✓ The full site has been affected by the present mining operation. Therefore, there is no “present” vegetation. The site is in various stages of reclamation and will be seeded to the approved seed mix once grading and topsoil replacement/soil amendments are applied as specified in the existing and/or proposed Amendment application.
 - ✓ Please see the original and past amendments for the list of present vegetation. We recommend you review Amendment 4 Exhibit.
- in conjunction with Exhibit G - Water Information, Rule 6.4.7, if required by the Office, further water resources information will be presented on a map in this section;

➤ Response:

 - ✓ Previous Amendment maps show these features. We have included these features on the new map (Exhibits C-1 and F-1), and added new/revised structures to the new map as needed and as indicated above for the new Pre-mine and Reclamation Plan Maps.
- Show the owner's name, type of structures, and location of all significant, valuable, and permanent man-made structures contained on the area of affected land and within two hundred (200) feet of the affected land (i.e. Quonset hut, permanent conveyor belts, relic processing equipment, location and volumes of topsoil stockpiles) and;

- Response:
 - ✓ Items which will be removed from the current mine site as part of the construction of the Reservoir Project are not shown on the map but are listed in a table along the side of the map, along with an estimated date of removal.
 - ✓ We request these structures (relic equipment) should not be included in the bond calculation. If they are not removed by the estimated removal date, we will provide the DRMS a revision/rider to the bond documents to cover their removal.
 - ✓ We will provide the DRMS a list of items disposed in the Phase 7 pit.
 - ✓ Note: Processing plant conveyors and equipment have been substantially removed prior to this application.
- *In conjunction with Exhibit I - Soils Information, Rule 6.4.9, soils information may be presented on a map in this section.*
 - Response:
 - ✓ We respectfully request information on the affected area soils be waived. No additional areas will be affected. Any soils which were on the site have been removed. This information is available in Amendment 4.
- *6. It appears that the operator may have provided some of these details in maps E-01 through E-04 but the maps do not meet all the requirements of Rule 6.2.1(2) and the Division could not determine where these maps are referenced in the amendment application.*
 - Response:
 - ✓ We have revised the Maps E-01 through E-04 to include the information required by Rule 6.2.1(2). In addition, there is some requested information we request the DRMS waive given the nature of the site, i.e., soils, wildlife and vegetation, as discussed in this document.
 - ✓ Please refer to Maps B-1 and C-1

Landowner	Structure	Distance from Affected Boundary
Landowner	Structure	Distance to affected boundary-feet
E.1 Schedule: 433010012 Davison Matt E. 1507 30TH LN PUEBLO CO 81006-9553	Barb Wire Fence House	90 560
E2. Schedule: 433010002 SHAHSAVARY NADER 4164 STAHL RD SAN ANTONIO TX 78217-1610	Barb Wire Fence Warehouse	90 400
E3. Schedule: 433010009 MARTIN DONALD H + JOY M 3114 MC CORMICK AVE PUEBLO CO 81001-4247	Fence	90
E4. Schedule: 43400700 BLIND SQUIRREL VENTURES #2 LLC 1147 S RUSSETT DR PUEBLO WEST CO 81007-1910	Metal Shop Warehouse Barb Wire Fence	175 85
E5. Schedule: 434002005 CORSON JESSICA S 315 25TH LN PUEBLO CO 81001-6001	Horse Barns Fence	185 35
E6. Schedule: 434002009 COOPER MELANIE LOU 401 25TH LN PUEBLO CO 81006-6003	House Fence	362 35
E7. Schedule: 434002018 WINTERS DOUGLAS ALAN , WINTERS JUDY ANN 409 25TH LN PUEBLO CO 81006-6003	House Quonset and Garage Fence	157 35
E8. Schedule: 434002008 LUCZAK JAMES C + ARLENE K 1441 GREENE AVE PUEBLO CO 81004-2452	House Garage Fence	147 25

Landowner	Structure	Distance to affected boundary-feet
E9. Schedule: 434002007 MRAOVICH GEORGE ALLEN JR 314 25TH LN PUEBLO CO 81006-6002	House Fence	347 25
E10. Schedule: 434002057 MRAOVICH GEORGE A 304 25TH LN PUEBLO CO 81006-6002	Shop Warehouse Fence	147 25
E11. Schedule: 434004001 HELMSING DETTA L BARR BARBARA 2023 OVERTON RD PUEBLO CO 81008-9619 □ 304 25TH LN PUEBLO CO 81001-6002	House Barn Garage Fence	125 35
E12. Schedule: 434004002 GONZALES JOHN 2567 VISTA GLEN CT WOODLAND PARK CO 80863-7005	Shop Fence Temp Tank	247 25 85
E13. Schedule: 434005001 AGGREGATE INDUSTRIES WCD INC 6211 N ANN ARBOR RD DUNDEE MI 48131-9527	Shop Fuel Tank Waste pit	100 65 35
E14. Schedule: 435004001 WELLS JEFFERY L + KELLI M 6991 WATERBARREL RD BEULAH CO 81023-9731	White Metal Fence	185
E15. Schedule: 435000021 LOPEZ JOSE A + SONIA 26200 E STATE HIGHWAY 96 PUEBLO CO 81001-6064	House Fence	370 90

Landowner	Structure	Distance to affected boundary-feet
E16. Schedule: 435000022 MARES SAUCEDO ROBERTO JAIME DELGADO CHAVIRA SONIA 1440 CEDAR ST PUEBLO CO 81004-3435	Tan Barn Fence	156 35
E17. Schedule: 435000023 MONTANO RAUL LUIS 140 27TH LN PUEBLO CO 81006-6008	White Barn Fence	187 35
E18. Schedule: 435000015 CALZADILLAS SUAREZ SIGIFREDO 916 E 4TH ST PUEBLO CO 81001-3931	Horse barns Fence	155 35
E19. Schedule: 435000014 MOUNTAIN STATES SHEET METAL CO 27350 E STATE HIGHWAY 96 PUEBLO CO 81001-6063	Fence Shop	35 384
E20. Schedule: 435000013 ☐ Name(s): MOUNTAIN STATES SHEET METAL CO ☐ Location Address: 126 27 1/4 LN PUEBLO CO 81006-6006 ☐ Mailing Address: 27350 E STATE HWY 96 PUEBLO CO 81001-6063	Fence	35
E21. Schedule: 435005001 ☐ Name(s): MOUNTAIN STATES SHEET METAL CO ☐ Location Address: 27350 E STATE HWY 96 PUEBLO CO 81001-6015 ☐ Mailing Address: 27350 E STATE HIGHWAY 96 PUEBLO CO 81001-6015	Fence	35

Landowner	Structure	Distance to affected boundary-feet
E22. Schedule: 435005002 M S S M CORP 27350 E STATE HIGHWAY 96 PUEBLO CO 81001-6015	Fence	35
E23. Schedule: 435005003 ☐ Name(s): M S S M CORP ☐ Location Address: 00000- ☐ Mailing Address: 27350 E STATE HIGHWAY 96 PUEBLO CO 81001-6015	Fence	35
E24. Schedule: 435001002 QUINT JOHN F + LISA M 646 N LIMON CT PUEBLO WEST CO 81007-2139	Conex Containers 90 Shop 150 Fence 90	
E25. Schedule: 435001003 MORTON JOSEPH 1049 MEADOW LN PUEBLO CO 81006-9519	Fence 60 Shop 90	
E26. Schedule: 435001004 ORTEGA LOUIS H + RICKY R 1833 E 16TH ST PUEBLO CO 81001-2708	Fence	60
E27. Schedule: 435001005 ORTEGA LOUIE H + RICKY R 1833 E 16TH ST PUEBLO CO 81001-2708	Fence 60 Containers 90	
E28. Schedule: 435001006 ORTEGA LOUIS H + RICKY R 1833 E 16TH ST PUEBLO CO 81001-2708	Fence 60 Storage 90	
E29. Schedule: 435001007 GLENN TRUDY 27770 E STATE HWY 96 PUEBLO CO 81001-	Fence 60 Rail Cars 60	

Landowner	Structure	Distance to affected boundary-feet
E30. Schedule: 435001008 CULLEN CHRIS 1900 SAINT CHARLES RD PUEBLO CO 81006-9705	No structures?	
E31. Schedule: 435003002 28 LANE LLC 129 COLORADO AVE PUEBLO CO 81004-4213	NO Structures	

- *EXHIBIT D –Mining Plan (Rule 6.4.4)*
 - Response:
 - ✓ We request the DRMS not require a new Exhibit D – Mining Plan Map C-1
 - ✓ In essence, this is a reclamation only permit amendment.
 - ✓ No mining shall occur since all the available resource within Phases 1, 2 and 7 has been removed. Any material on the site will be used to meet backfill requirements. It would be more expensive to sell material, have it hauled off - site, then have to buy material and have it brought back onto the site.
 - ✓ Backfilling and grading will be completed using on-site, available material.

- *7. Please confirm that no mining is expected to take place at the site but if mining does occur it will follow all relevant sections of the Mine Plan found throughout the approved amendments.*
 - Response:
 - ✓ We confirm no mining is expected.
 - ✓ If, in the unlikely event, additional mining is needed in order to complete site reclamation, we will follow the relevant sections of the mining plan's approved amendments.
 - ✓ We propose any extraction of material which does not leave the site will be part of site reclamation.
 - ✓ We agree to notify the DRMS if we have a need to export material from the site, so the DRMS may determine if a permit revision is required.

EXHIBIT E –Reclamation Plan (Rule 6.4.5)

- *8. Phase 2 Area – What is the estimated volume of topsoil needed to reclaim the slopes around the pond and what depth will topsoil be placed?*
 - Response:
 - ✓ To the best of our knowledge topsoil has been placed on all of the Phase 2 area at an average depth of 6 inches. The topsoil in place will remain in place and simply regraded and reseeded to the approved seed mix.
- *9. Phase 2 Area – Please clearly show on a map the areas that require grading and topsoil placement?*
 - Response:
 - ✓ Please see the revised Reclamation Plan Map F-1
- *10. Phase 2 Area – Where is the proposed source of topsoil and what methods will be used to transport the topsoil.*
 - Response:
 - ✓ Topsoil: As stated above, we have already applied the required topsoil to Phase Two. The area needs some minor grading, seedbed preparation and seeding.
 - ✓ In addition, we may need to apply soil amendments based on the site specific soil test already provided to the DRMS.
 - ✓ The total area in Phase 2 which received replaced topsoil is approximately 19.0 acres.
- *11. Phase 2 Area - Does the operator anticipate that topsoil stockpiles located in the Phase 2 Area will be used for reclamation in other phases? If so, please describe how these areas will be reclaimed.*
 - Response:
 - ✓ We have identified six topsoil piles on-site. The estimated cubic yards in each topsoil stockpile are as follows:
 - ❖ Phase 2, north of the reservoir, equals an estimated 51,000 cyds.
 - ❖ The pile north of the Phase 2 reservoir and just west of Phase 1, equals approximately 3,348 cyds.
 - ✓ Topsoil Removal Reclamation:
 - ❖ Each Phase which has backfill material removed will involve first stripping and stockpiling or direct haul of the topsoil to the area needing topsoil replacement
 - ❖ Once available overburden has been removed, the area will have the topsoil replaced, the seedbed will be prepared by disking and harrowing, as needed.

- ❖ The approved seed mix will be drill seeded and the area mulched with 2 tons per acre of weed-free straw, crimped into the soil surface in two directions.
 - ❖ If only disking occurs, the area will be broadcast seeded at double the drill seed rate. No mulching will occur if the area is broadcast seeded.
 - ✓ Please see the attached map for the location of the referenced Phases.
- 12. *Phase 2 Area – During the 2019 inspection it was noted that there were areas that needed weed management and reseeding. What is the anticipated total area that will require initial seeding and reseeding in the Phase 2 Area?*
 - Response:
 - ✓ We propose to regrade and reseed on the Phase 2 area just north and west of Phase 1, approximately 9.0 acres.
 - ✓ The regrading should initially remove the weed infestation. We will follow up with weed control in following years by using the currently approved weed control plan, Amendment 1, Exhibit E, Pages 14-15 as amended in subsequent permit revisions.
 - 13. *Phase 2 Area – Will the areas that are seeded be crimped and mulched, if so at what rate?*
 - Response:
 - ✓ The approved seed mix will be drill seeded and the area mulched with 2 tons per acre of weed-free straw, crimped into the soil surface in two directions.
 - ✓ If only disking occurs, the area will be broadcast seeded at double the drill seed rate. No mulching will occur if the area is broadcast seeded.
 - ✓ Please see the attached map for the location of the referenced Phases.
 - 14. *Phase 1 Area – Has the Division of Water Resources (DWR) been consulted about pumping the water into the Arkansas River, if so, what were their comments? If they have not been consulted should they be, if not why?*
 - Response: The Division of Water Resources has been contacted and they have no comments concerning the return of water to the Arkansas River.
 - 15. *Phase 1 Area – The material in the northwest corner of the phase consists of primarily of clean-out material from cement trucks and other large concrete debris. Please describe how this material will be broken up and used for backfill. What is the estimated volume of this material? The Division would like the operator to commit to removing any exposed rebar and disposing of it at an appropriate landfill.*
 - Response:
 - ✓ The concrete rubble is only waste from the concrete operation. It does not, nor has it ever had any rebar contained in the material.
 - ✓ Offsite construction demolition concrete will not brought onto the site.
 - ✓ Stockpile volume of rubble is approximately 16,156 cys

- 16. Phase 1 Area – How does the operator plan on disposing of the relic processing plant near the Quonset hut along with permanent conveyor belt features? For bonding purposes, the volume of material will have to be provided.
 - Response:
 - ✓ Quonset Building will remain for future use as a shop for the water project.
 - ✓ All plant and conveyor parts have been removed from the site.

- 17. Phase 1 Area – What is the estimated volume of material needed to backfill the slopes of the dewatered pit area to a 3:1 slope?
 - Response:
 - ✓ Phase 1 Reclamation Cost Estimate:
 - ❖ Following is an estimate of the amount of material necessary to construct 3:1 slope in Phase 1. In calculating the amount of backfill material needed, certain assumptions are necessary:
 - ❖ Assumptions:
 - o The average depth of the pit is 34 feet (Taken from 1-31-2007, Exhibit F-2 Reclamation Final Land Use Map), equals a vertical fill of 34 feet with a horizontal leg of 102 feet.
 - o The average elevation across Phase 1 pit is 4604 MSL.
 - o The slope around the perimeter of the pit represents $\frac{1}{2}$ (34x102) = 1,734 square feet per lineal foot of perimeter.
 - o Calculating the estimated volume is $\frac{(1734 \text{ sf} \times 7000 \text{ lf})}{27 \text{ cf/cy}} = 449,555 \text{ cys}$
 - o Estimated slope fill needed is 450,000 cys
 - o Estimated backfill available in Phase 1:
 - o In the north east portion of the Phase 1 Pit are wash fines from the sand and gravel processing area. An estimate of the volume of cut material available for backfill is:
 - o $\frac{12 \text{ acres} \times 43,560 \times 34 \text{ feet deep}}{27 \text{ cf/cy}} = 658,240 \text{ cys available.}$

- 18. Phase 1 Area – It is unclear what Drawing is being referenced in the description of the Phase 1 Area reclamation.
 - Response:
 - ✓ Please see Reclamation Plan new map F-1

- 19. Phase 1 Area – If there is insufficient material in the northwest area of Phase 1 to grade the slopes to a 3:1 what other sources of material are available for backfill? If other sources of material is needed please provide details.
 - Response:
 - ✓ Calculations indicate 450,000 cys are needed to complete the 3:1 slopes in Phase 1.

- ✓ There is estimated to be 650,000 cys of material available in the northwest corner of phase 1. This material will be used to complete the slopes and allow for shrinkage or overruns.
 - ✓ Any material not needed in Phase 1 will be used in Phase 7 after the slopes are completed.
- 20. *Phase 1 Area – Please address the need for an emergency outfall since the proposed pond is located within the 100-year floodplain. If an outfall is required please show its proposed location along with relevant details.*
 - Response: Two outflow structures are shown on the Map F-1 to accommodate the location in the 100 year flood plain. Notes indicate the structures will be designed to accommodate site conditions for overflow. Those designs are not yet sized for the new configuration of the site.
 - 21. *Phase 1 Area – What areas will have to be topsoiled? What depth will topsoil be placed? What is the volume of topsoil estimated for Phase 1 reclamation? Please identify the sources of topsoil that will be used to reclaim Phase 1? What equipment does the operator propose to use to complete topsoil placement?*
 - Response - **Phase 1 Reclamation:**
 - ✓ *What areas will have to be topsoiled?*
 - ❖ Response:
 - We have identified six topsoil piles on-site. The estimated cubic yards in each topsoil stockpile are as follows:
 - Phase 2, north of the reservoir, equals an estimated 24,327 cyds.
 - The pile north of the Phase 2 reservoir and just west of Phase 1 equals approximately 3,348 cyds.
 - The combined volume of the two stockpiles north of Phase 1 equals approximately 4,093 cyds.
 - The topsoil stockpile at the far northeast end of Phase 7 equals approximately 1,479 cyds.
 - Total estimated known stockpile quantity equals 33,247 cyds.
 - ✓ *What depth will topsoil be placed?*
 - ❖ Response:
 - Topsoil will be replaced to an average depth of 6 inches.
 - Phase 2 to the best of our knowledge has already had topsoil replaced.
 - Phase 1 will have 15,357 cyds of topsoil replaced.
 - Phase 7 will have approximately 6,948 cyds of topsoil replaced.
 - We will not need to place topsoil on the topsoil/overburden stockpile footprint since there is topsoil beneath the stockpile.
 - Total estimated volume of topsoil needed, equals 22,305 cyds.
 - Phase 1 pit floor will be under water.
 - ⊕ Phase 1 will receive topsoil for the slopes on the west, north and east sides of Phase 1. Those slopes are approximately 19.0 acres.

- o The side slopes and flatter areas of Phase 7 are approximately 8.6 acres (excluding the pit floor).
- ✓ *What equipment does the operator propose to use to complete topsoil placement?*
 - o Response:
 - Topsoil will be loaded from stockpile with a front-end loader onto a haul truck. The haul truck will deliver the topsoil to the placement area and dumped on the ground. A motor grader will then be used to spread the topsoil to the appropriate depth and consistency
- 22. *Phase 1 Area – Will the areas that are seeded be crimped and mulched, if so at what rate?*
 - Response:
 - ✓ As approved in the existing Amendment(s), the floor of Phase-7 will not be seeded. If natural vegetation (excluding noxious weeds) do not establish sufficiently during the two-year period after the completion of slope reclamation, those areas will be interseeded with the approved seed mix, as needed.
 - ❖ We propose the following visual standard for Phase 7, pit floor areas.
 - o The areas must show obvious encroachment of desirable plant species at the end of two years.
 - o Desirable plant species include native grasses, forbs and trees.
 - ❖ Other Areas:
 - o Compacted areas will be loosened and harrowed as needed.
 - o Mulch will be applied at a rate of 2 tons/acres and crimped in on all reclaimed slopes.
 - o Soil amendments based on soils analyses are proposed for all Phases and will be applied to all reclaimed slopes and flat areas, with the exception of the floor of Phase 7.
 - ✓ The slopes of Phase 7 and the upper topography flat areas will be mulched at the rate of 2 tons per acres of weed free straw, crimped into the soil surface.
- 23. *Phase 1 Area – Please provide reclamation details on how the operator proposes to reclaim the settling basins between Phases 1 and 7.*
 - Response:
 - ✓ We will first need to determine if the two settling basins are now considered jurisdictional wetlands, if so, they will be left as is.
 - ✓ The settling basins at this point are scheduled to be backfilled, provided there is sufficient available backfill. They will be left for invasion by natural vegetation as proposed for the rest of Phase 7.
 - ✓ If sufficient backfill is not available, they will be backfilled to the extent available backfill is available and be left as a potential wetland. Again, they will be left for invasion by natural vegetation as proposed for the rest of Phase 7

- 24. *Phase 1 Area – Please provide a summary of the proposed slurry wall in this exhibit as in Exhibit G.*
 - Response: The proposed slurry wall is shown on Map F-1 and details follow on exhibit F-2.
 - ✓

- 25. *Phase 7 Area – It is unclear to the Division what map is being referenced.*
 - Response: Reference to phase 7 area is included in Map F-1

- 26. *Phase 7 Area – What is the estimated volume of backfill needed for reclamation of this phase?*
 - Response:
The estimated volume of backfill needed is 200,000 cys.

Phase 7 Reclamation

ITEM	Quantity	Units	Unit Cost (1)	Total
Ripping Compacted Areas	8.6 Acres	1.7 Hrs.	\$227.47	\$387.00
Backfill, Assume All Material Will Be Obtained On-site.	200,000 cyds	Cys	\$2.83/cy	\$566,000.00
Topsoil Replacement: 50.6, Acres, 6 Inches Deep (Replace as a top dressing)	5,814 Lcy Available	Lcy	\$1.59/Lcy	\$9,244.00
Seedbed Preparation (1)	8.6 Acres	Acre	\$138.00	\$1,548.00
Drill Seeding (Includes Seed Cost) (2)	8.6 Acres	Acre	\$387.51	\$3,333.00
Amendments (3) (Includes Amendment cost)	8.6 Acres	Acre	\$180.00	\$1,548.00
Mulch and Crimp (4)	8.6Acres	Acre	\$1,207.14	\$10,381.00

(Includes Straw)				
Weed Control (1st Year)	57.0 Acres	Acre	\$249.37	\$14,214.00
Total				\$606,294.00

Footnotes:

1. Assumes all material to backfill Phase 7 will be obtained on-site.
 2. From Grisenti Farms 2019 seedbed preparation costs, inflated 2.3%.
 3. Seed cost from Grisenti Farms 2019 per acres seeding cost, inflated 2.3%.
 4. Soil amendment costs from Grisenti Farms Pit per acre costs, inflated 2.3%.
 5. From 2019 Grisenti Farms per acre mulching costs, inflated 2.3%.
- 27. *Phase 7 Area – There are numerous near vertical slopes around the Phase 7 Area that need to be graded to a 3:1 slope or shallower. What is the total length of slope that needs to be grade to a 3:1 slope, average height, and locations?*
 - Response:
 - ✓ The total length of slopes in phase 7 equals 2300 lf, average height of 15ft
 - ✓ Slopes are located on the north and east boundaries of phase 7 (map F-1)
 - ✓ As the surrounding dirt stockpiles are placed back into the fill area some of the steep slopes will be eliminated and the elevation of the ground will be returned to it original grade. Areas along the perimeter that are to remain in a sloped condition will be graded to a 3:1 slope and reseeded. Areas along the Arkansas River will be leveled and allow runoff to return to the river.
 - ✓ We have indicated on the Revised Pre-Mine Map those slopes which now exist and need to be graded and/or backfilled to a 3H: 1V slope. We have also indicted on the Map the height and length of each section needing sloped.
 - 28. *Phase 7 Area – What areas will have to be topsoiled? What is the volume of topsoil estimated for Phase 7 reclamation? Please identify the sources of topsoil that will be used to reclaim Phase 7? What equipment does the operator propose to use to complete topsoil placement?*
 - Response:
 - ✓ Please see response to Question 21 above.

- 32. *What is the expected schedule for installing the slurry wall? Please show the proposed slurry wall location in Exhibit F.*
 - Response: Slurry Wall location is shown on the new Map exhibit F-1. CWPDA is currently applying for grants to construct a slurry wall or compacted berm in Phase 1. We cannot predict the schedule of approval and therefore cannot give a timeline for constructing the slurry wall. CWPDA has committed the necessary water rights to maintain the water levels in Phase 1 until the lined pit can be constructed.
- 33. *The Division was unable to find the Mining Plan map that depicts the locations of tributary water courses and wells. Please provide the missing map with these details, also see comment #5. The map provided at the end of this section was folded and could not be read in its entirety. However, it was noted that the map is dated from 2011. Please resubmit an updated version of this map.*
 - Response: The new Maps for exhibits C-1 and F-1 include these items.
- 34. *In item #4 the operator states the water obligations, inferred to be the SWSP, may migrate to CWPDA. Will this action be done before a Succession of Operators application is completed for the site? Commit to informing the Division of this change before the current operator begins that process.*
 - Response:
 - ✓ We commit to notice the DRMS of the above mentioned action prior to CWDPA moving the SWSP.

EXHIBIT H – Wildlife Information (Rule 6.4.8)

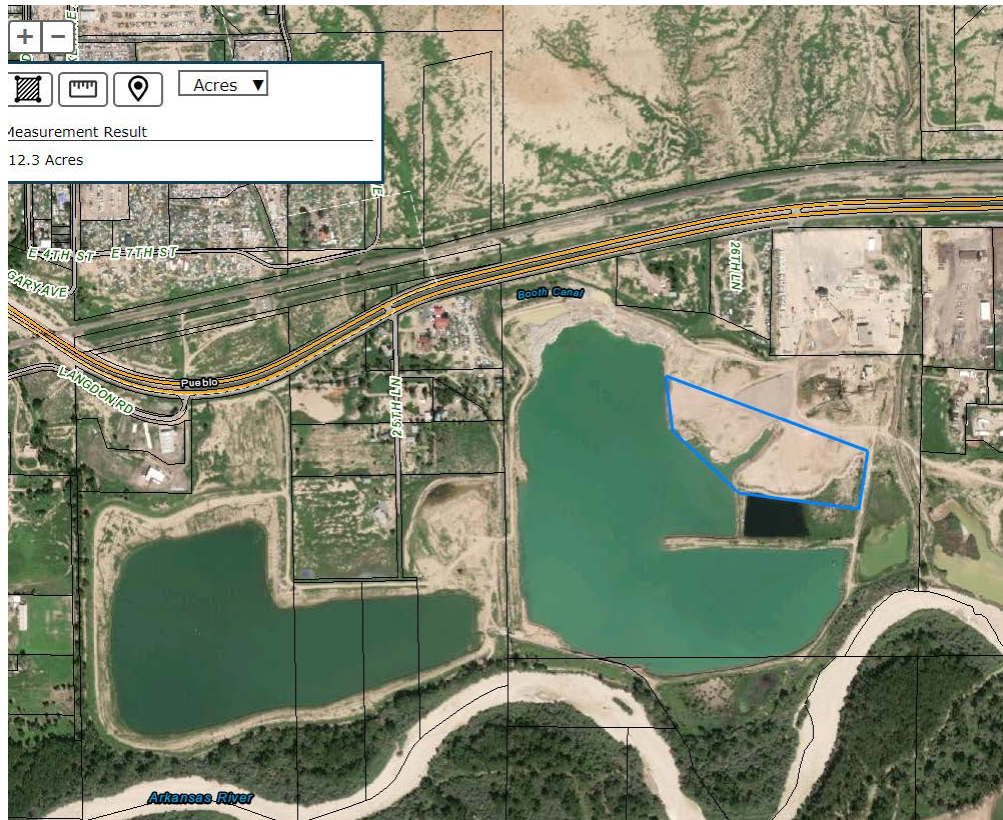
- 35. *The note at the beginning of the exhibit is confusing. Please clarify from which amendment the information being reproduced. Please make a statement that site conditions have not changed from that amendment to Amendment 5.*
 - Response:
 - ✓ Please see Amendments 4, Exhibit H, Wildlife information. There is a note at the beginning of Exhibit H, Amendment 4 which states, “NOTE: No changes in the original information are needed for Amendment 4.”

EXHIBIT J – Vegetation Information (Rule 6.4.10)

- 36. *Please provide, as part of this section, Exhibit C-6 from Amendment 3 and Exhibit C-7 from Amendment 4(?) that depicts the locations of the wetlands. Please ensure the Phase 7 wetlands are depicted on the map.*
 - Response:
 - ✓ Please see Amendment 4, Exhibit J, Vegetation Information.

EXHIBIT L – Reclamation Costs (Rule 6.4.12)

- 37. *Item #1 states there is no cost for reclaiming the former processing area located in the northeastern portion of Phase 1, south of the concrete batch plant, because those activities have been completed. During the November 2019 site inspection, it was noted that the majority of this processing area was still intact and there was no plan, at that time, to reclaim the area. Has this area in Phase 1 been reclaimed since November 2019? If the area still remains, provide details such as the dimension of the slabs and how they are reinforced, the number and dimension of any footers, and any details pertaining to conveyors on site. If it has been reclaimed please provide a summary of where the material, that remained onsite, was placed.*
 - Response: The area in the Northeast corner of Phase 1 has been cleared of plant equipment and conveyors. Concrete has been removed and disposed of properly. Any concrete used as footings were constructed using precast blocks (2'x2'x4') of concrete and rebar. These blocks have lifting hooks installed that allow us to move and reuse the blocks offsite. No regrading or reseeding has occurred.
 - The soils in this area will be used to construct the 3:1 slopes in Phase 1. Once the new slopes are constructed the excess soil will be used to backfill phase 7. At the completion of the sloping the area around the water storage vessel will be top soiled and reseeded as described in the amendment.
- 38. *Item #4, the batch plant release was begun in 2006. Maps associated with Amendments 3 and 4 approved in 2007 and 2011, respectively, all clearly portray the batch plant outside the permit boundary.*
 - Response:
We understand no further action is needed.
- 39. *Phase 1 Cost Estimate – Please clearly show on the Reclamation Plan Map where the 12-acre area is located that the operator proposes to source the fill material for the pit slope reconstruction, it is not clear to the Division where this area is located on the map provided to other proposed Phase 1 items.*
 - Response: Refer to Map F-1
 - ✓ The 12.3 acres as outlined by the blue line is the proposed barrow area.



- 40. Please clearly depict on the Reclamation Plan Map the anticipated pit slope perimeter location along with the location of the slurry wall.
 - Response: See Maps C-1 and F-1

- 41. Please ensure that the items listed on the Phase 1 Reclamation table are clearly depicted on the Reclamation Plan Map.
 - Response: See Maps C-1 and F-1

- 42. Please review the cost estimate for Topsoil Replacement in the Phase 1 Reclamation table there appears to be an error please correct and update the table as needed.
 - Response:

Based on our recalculation of the topsoil replacement cost estimate, the cost is \$24,418.00.

Phase 1 Reclamation

ITEM	Quantity	Units	Unit Cost (1)	Total
Ripping Compacted Areas	19.0	3.8 Hrs.	\$227.47	\$864.00
Construct 3:1 earth berm at the perimeter of pit 1	7,000 Lineal Ft	450,000 cy	\$2.91	\$1,309,283.00
Topsoil Replacement: 6.7, Acres, 6 Inches Deep	6.7 Acres	15,357.0 Lcy	\$1.59/Lcy	\$24,418.00
Seedbed Preparation (2)	19.0 Acres	Acre	\$138.00	\$2,622.00
Drill Seeding (Includes Seed Cost) (3)	19.0 Acres	Acre	\$387.51	\$7,363.00
Amendments (4) (Includes Amendment cost)	12.3 Acres	Acre	\$180.00	\$2,214.00
Mulch and Crimp (5) (Includes Straw)	19.0 acres	Acre	\$1,207.14	\$22,936.00
Weed Control (1 st Year)	105.1	Acre	\$249.37	\$26,209.00
Slurry Wall Construction	7000 lf	lf	\$210.00	\$1,470,000.00
Sub-total				\$2,866,125.00

- 43. Please ensure that the items listed on the Phase 2 Reclamation table are clearly depicted on the Reclamation Plan Map.
 - Areas to receive topsoil regrading and seeding are shown on Map F-1

- 44. Please review the cost estimate for all Phases Ripping Roads and Compacted Areas in the Phase 2 Reclamation table there appears to be an error, please correct and update the table as needed.
 - Response:
 - ✓ Based on our recalculation of the cost to rip roads and other compacted areas, the estimated cost is \$1,501.00

Pueblo East, Phase 2

ITEM	Quantity	Units	Unit Cost (1)	Total
Phase 2 Slumped Slope Repairs (2)(3)	-	Lump Sum	-	\$51,864.00
All Phases, Ripping Rds. & Compacted Areas	28.0 Acres	6.6 Hrs.	\$227.47	\$1,501.00
Topsoil Replacement: Current roads to remain	0.0 Acres	Lcy.	\$1.59	\$0.00
Seedbed Preparation	28.0 Acres	Acre	\$138.00	\$3,864.00
Drill Seeding	28.0 Acres	Acre	\$387.51	\$10,850.00
Amendments (5)	0.0 Acres	Acre	\$984.58	\$0.00
Mulch and Crimp	28.0 Acres	Acre	\$1,207.14	\$33,800.00
Weed Control	28.0 Acres	Acre	\$249.37	\$6,982.00
Total				\$108,861.00

- 45. *Please provide a detailed summary from where the 200,000 cubic yards of material needed for the Phase 7 reclamation will be sourced.*
 - Response: Water depths were measured and recorded by Bishop and Brogden to determine the amount of water contained in Phase 7 during the spring runoff. Assumed this represents the high water mark that needs to be backfilled in this area we calculated the acre feet of water and converted that to cubic yards of backfill.
 - The required backfill will come from the materials originally stripped and stock piled along the east and north boundaries of the phase 7. Additional Materials will be available from Phase 1 as the slopes in that area are completed. The final place to source material would be the north area of phase 2 along the highway.

- 46. Please provide details where and how the operator proposes to amend the existing soil to condition it to topsoil.
 - Response:
 - ✓ We will apply 20 lbs./A P_2O_5 to the subsoil prior to topsoil replacement and disk into the subsoil.

Soils Analyses Report:

Andre Laroche/Transit Mix Concrete
444 E Costilla St
Colorado Springs CO 80903

DATE RECEIVED: 09-18-2018
DATE REPORTED: 09-20-2018

pH > 7.9 Strong Alkaline
EC > 10 Saline soil (some say > 2.5)
High lime - Fe deficiency
SAR > 10 Sodic soil
EC < 4
pH > 8.5

Colorado State University
Soil, Water and Plant Testing Laboratory
Natural & Environmental Sciences Bldg - A320
Fort Collins, CO 80523-1120

(970) 491-5061 FAX: 491-2930

BILLING:

RESEARCH SOIL ANALYSIS

Lab #	Sample ID #	paste		Lime Estimate	% OM	AB-DTPA						
		pH	EC mmhos/cm			NO ₃ -N $\frac{L}{25}$	P $\frac{L}{20}$	OK $\frac{L}{100}$	Zn	Fe	Mn	Cu
R958	1	8.1	3.3	very high	2.4	89.9	29.5	570	3.0	10.8	2.4	2.9
R959	2	8.6	0.8	very high	1.9	30.2	16.0	349	2.3	11.4	2.5	2.9
R960	3	8.0	3.0	very high	1.8	39.1	11.8	389	1.6	11.7	3.9	3.3
R961	4	8.1	0.8	very high	1.7	24.8	6.0	208	0.6	9.6	2.4	2.8
R962	5	8.2	1.2	very high	2.0	30.2	14.8	506	4.4	13.2	4.6	4.6
R963	6	8.2	1.1	very high	1.4	13.3	4.6	201	1.2	14.1	4.4	4.0
Lab #	Sample ID #	Ca	Mg	Na	K	SAR	Sand	Silt	Clay	Texture		
		meq/L					%					
R958	1	19.2	9.5	4.3	12.3	1.0	53	14	33	sandy clay loam		
R959	2	4.3	2.2	1.0	1.9	0.7	55	12	33	sandy clay loam		
R960	3	26.0	3.5	4.0	5.2	0.8	54	17	29	sandy clay loam		
R961	4	5.1	0.7	1.1	2.1	0.7	53	26	21	sandy clay loam		
R962	5	7.2	3.5	1.5	2.1	0.7	56	10	34	sandy clay loam		
R963	6	7.3	0.6	2.1	4.4	0.7	47	18	35	clay loam		
Lab #	Sample ID #	Extended sample ID	To be grown	Irrigation	Fertilizer Suggestions							
			N	P ₂ O ₅	K ₂ O							
R958	1	Pueblo West pit upland #1 (combo)	native grasses	dryland	0	0	0					
R959	2	Pueblo West pit upland #2 (combo)	native grasses	dryland	0	0	0					
R960	3	Pueblo West pit upland #3 (combo)	native grasses	dryland	0	0	0					
R961	4	Pueblo West pit upland #4	native grasses	dryland	10	20	0					
R962	5	Barnhart Pit upland (combo)	native grasses	dryland	0	0	0					
R963	6	Pueblo East Pit Phase 2 upland (combo)	native grasses	dryland	20	20	0					

Salts are high in samples 1 & 2. Plant growth may be reduced.

Page 1 of 1

- 47. Please see comment #27.
 - Response:
 - ✓ As the surrounding dirt stockpiles are placed back into the fill area some of the steep slopes will be eliminated and the elevation of the ground will be returned to its original grade. Areas along the perimeter that are to remain in a sloped condition will be graded to a 3:1 slope and reseeded. Areas along the Arkansas River will be leveled and allow runoff to return to the river.
 - ✓ We have indicated on the Revised Pre-Mine Map those slopes which now exist and need to be graded and/or backfilled to a 3H:1 V slope. We have also indicated on the Map the height and length of each section needing sloped.

- 48. Please review the cost estimate for Ripping and Backfill items in Phase 7 Reclamation table there appears to be an error, please correct and update the table as needed.
➤ Response: Calculations have been corrected.

Phase 7 Reclamation

ITEM	Quantity	Units	Unit Cost (1)	Total
Ripping Compacted Areas	8.6 Acres	1.7 Hrs.	\$227.47	\$387.00
Backfill, Assume All Material Will Be Obtained On-site.	200,000 Cyds	Cy	\$2.83/cy	\$566,000.00
Topsoil Replacement: 50.6, Acres, 6 Inches Deep (Replace as a top dressing)	5,814 Lcy Available	Lcy	\$1.59/Lcy	\$9,244.00
Seedbed Preparation (1)	8.6 Acres	Acre	\$138.00	\$1,548.00
Drill Seeding (Includes Seed Cost) (2)	8.6 Acres	Acre	\$387.51	\$3,333.00
Amendments (3) (Includes Amendment cost)	8.6 Acres	Acre	\$180.00	\$1,548.00
Mulch and Crimp (4) (Includes Straw)	8.6 Acres	Acre	\$1,207.14	\$10,381.00
Weed Control (1 st Year)	57.0 Acres	Acre	\$249.37	\$14,214.00
Total				\$606,294.00

- 49. Please update the cost summary table, as it does not accurately reflect the Phase 7 Reclamation costs provided earlier.
➤ Response: Cost summary has been updated

Total Cost of reclamation for the Water Storage option	
Mobilization	\$ 20,000
Concrete Overflow Structures	\$ 6,400
Phase 1	\$ 2,866,125
Phase 2	\$ 108,861
Phase 7	\$ 606,294
Total Reclamation Costs	\$ \$3,607,680

- 50. Please provide the details for the concrete overflow structures listed in the cost summary table.
Response: Concrete overflow structures will be designed later in accordance with the anticipated water storage and parameters of the 100 year flood plain.

- 51. Please update the cost summary table with any new cost estimate totals.
➤ Response: Cost summary table has been corrected.

Total Cost of reclamation for the Water Storage option	
Mobilization	\$ 20,000
Concrete Overflow Structures	\$ 6,400
Phase 1	\$ 2,866,125
Phase 2	\$ 108,861
Phase 7	\$ 606,294
Total Reclamation Costs	\$ \$3,607,680

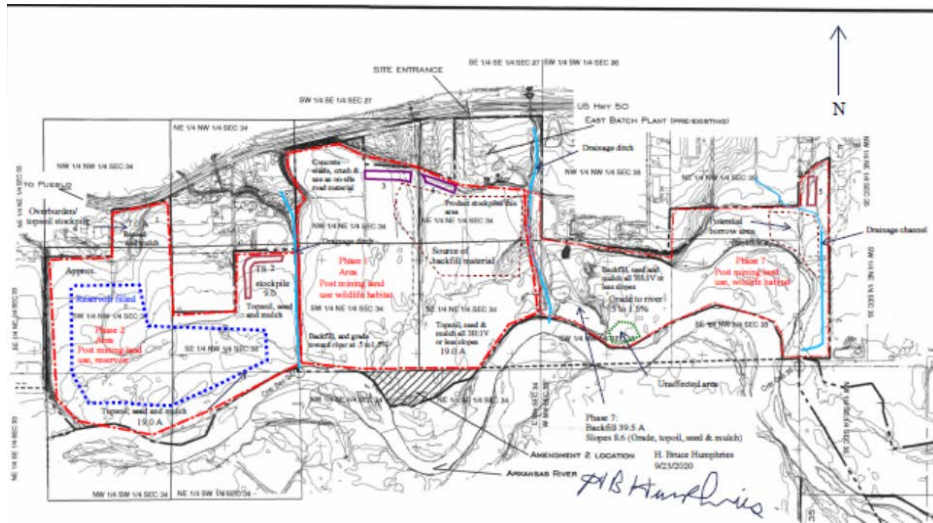
- 52. *Please verify the equipment listed in the spreadsheets is all the equipment that will be used for reclamation at the site.*
- - Response: The listed equipment is the anticipated operating items needed to complete the work onsite. It may vary from our spreadsheet depending on the contractor chosen to complete the work. The slurry wall would be completed by contract vs. self performance. That equipment is not listed here. The spreadsheets would be complete for a typical construction company to complete the 3:1 slopes, regrade the existing areas, and backfill phase 7.

EXHIBIT S – Permanent Man-Made Structures (Rule 6.4.19)

- 53. *Pursuant to Rule 6.4.3(g), please show on a map the owner's name, type of structures, and location of all significant, valuable, and permanent man-made structures contained on the area of affected land and within two hundred (200) feet of the affected land. The Division needs this information to verify that all structures are accurately accounted for and the 24 agreements that were sent out are sufficient. Note: all maps must meet the requirements specified in Rule 6.2.1(2).*
 - Response:
 - ✓ The structure and the owner's name have been added to Map F-1.
 - ✓ Please see the response to item #6 above for a list of structures.

Operator Provided Tab W – Appendix B Offsite Drainage Channel Design Calculations

- 54. *It is unclear why the Offsite Drainage Channel Design Calculations were included as part of this amendment. If the channel is part of the reclamation, please clearly show on the Reclamation Plan Map where this structure is going to be built and provide a summary on why it is needed.*
 - Response: Three offsite drainage channels move water from the north along Highway 50 back to the Arkansas River south of the Pueblo East pits. One channel flows from north to south between Phase 1 and 2. The second channel flows north to south between phases 1 and 7. These channels will remain as part of the amended plan and will be required to maintain the offsite water flows not flowing into the pits.
 - The third Channel diverts water around Phase 7 and will be eliminated at the end of regrading Phase 7.



Operator Provided Tab V – Phase 1 Reclamation Amendments

- 55. *It is unclear to the Division why this section was included in the Amendment 5 application. The Division acknowledges that the submittal is Exhibit E Reclamation Plan from Amendment 4. However, it is not clear what sections the operator would include in the current amendment application. Please clarify and explain why this section was included. For completeness the operator should include all exhibits, i.e., cross-sections and maps, which are referenced in this section.*
 - Response: We have provided new reclamation Maps and plans to replace the Exhibit E. We ask to remove the information provided in this section.
- 56. *The settling basins have not been used in a couple of years and photos from the 2019 inspection show small trees and weeds becoming established on the floor of the basins. The Division does not believe the reclamation plan of these basins outlined in this section reflect current site conditions. Please provide a detailed reclamation plan for the settling basins. Also see comment #23.*
 - Response:
 - ✓ We will first need to determine if the two settling basins are now considered jurisdictional wetlands, if so, they will be left as is.
 - ✓ The settling basins at this point are scheduled to be backfilled, provided there is sufficient available backfill. They will be left for invasion by natural vegetation as proposed for the rest of Phase 7.
 - ✓ If sufficient backfill is not available, they will be backfilled to the extent available backfill is available and be left as a potential wetland. Again, they will be left for invasion by natural vegetation as proposed for the rest of Phase 7
 - ✓ We addressed the reclamation of these basins in our response to item #23.

Operator Provided Tab W – Land Owners of Record

Response: Landowners of record are listed in the table in answer 6.

- 57. Pursuant to Rule 6.4.3(g), please show on a map the owner's name, type of structures, and location of all significant, valuable, and permanent man-made structures contained on the area of affected land and within two hundred (200) feet of the affected land. The Division needs this information to verify that all land owners within 200 feet of the affected land have been properly notified. Note all maps must meet the requirements specified in Rule 6.2.1(2).
 - Response:
 - ✓ The structure and the owner's name have been added to Map F-1.
 - ✓ Please see the response to item #6 above for a list of structures.
 - This question appears to be the same as item #53 above?

Other Permits and Licenses (Rule 6.3.6):

- 58. Pursuant to Rule 1.6.2(2), please demonstrate that the Applicant's response to these adequacy issues have been placed with the application materials previously placed with the County Clerk or Records Office, and made available for public review.
 - Response: A signed receipt will be forwarded as we deliver the answers to County Clerk or Records Office in Pueblo Colorado.

Proof of Publication (Rule 1.6.5):

- 59. Please provide proof of the local newspaper publication as required by Rule 1.6.5(1) (g). Include a copy of the newspaper publication, for the Division's review, that includes the date published, and a notarized statement from the newspaper.
 - Response:
 - ✓ The proof of publication was mailed to Castle Aggregate on January 20, 2021.
 - ✓ The proof of publication is included in this submittal as attachment.

PROOF OF PUBLICATION AFFIDAVIT

THE PUEBLO CHIEFTAIN

STATE OF COLORADO,)
) s.s.
County of Pueblo,)

I, Ashley Munoz, do solemnly swear that I am an employee of THE PUEBLO CHIEFTAIN; that the same is a daily newspaper printed, in whole or in part and published in the County of Pueblo, State of Colorado, and has a general circulation therein; that said newspaper has been published continuously and uninterrupted in said County of Pueblo for a period of 365 days a year next prior to the first publication of the annexed legal notice or advertisement; that said newspaper has been admitted to the United States Mail as a second class matter under the provisions of the act of March 3rd, 1987, or any amendment thereof duly qualified for publishing legal notices and advertisements within the meaning of the laws of the State of Colorado of which is attached a true copy from said newspaper and was published on the following dates:

PUBLISHED: 11/17, 11/24, 12/8, 12/15

In witness whereof, I have hereunto set my hand

this 19 day of January A.D 2021

Ashley Munoz

.....

Subscribed and sworn to before me, a Notary Public in and for the County of Pueblo, State of Colorado,

this 19 day of January A.D 2021

Monica Sweeney
Notary Public

Notice

The Pueblo East Pits are a construction materials operation applying for an amendment to Permit #M-1986-015

Pueblo East Pits approximately 2 miles east of Pueblo Colorado and south of Highway 50 and north of the Arkansas River

34-20-64 CONTG 64.48A THE NW4 SW4 LYING N OF RIVER; + ALL THAT PART W2 NW4 LYING S OF HWY NO 96 (LESS POR OF SW4 NW4 NW4 SOLD TO T+M TRUCK SERVICE NO 344014) LESS TR SOLD TO THOMPSON NO 595005

Castle Aggregates has applied for an amendment to the existing Reclamation permit with the Colorado Division of Reclamation Mining and Safety. Anyone wishing to review the application may view it at the Pueblo County Clerk and Records office, 215 West 10th Street Pueblo CO 81003. Anyone wishing to comment on the plan should send their comments prior to the end of public comment period (December 28, 2020) to:

Division of Reclamation Mining and Safety
1313 Sherman Street Room 215
Denver Colorado 80203
Phone: 303-886-3567

Owner: The amendment is proposing to change the end use of the project from wildlife habitat to a water storage project. The change if approved would commence in 2021 and continue operating as water storage for the foreseeable future.

Castle Aggregates
549 East Cucharas Street
Colorado Springs CO 80907
Phone: 719-491-0114

PU-00031+100-01

MONICA S. SWEENEY
NOTARY PUBLIC
STATE OF COLORADO

NOTARY ID 20124073279
MY COMMISSION EXPIRES NOVEMBER, 15, 2024

- *Cultural and Historic Resources:*
 - Response;
 - ✓ We understand our obligation under the provisions of C.R.S 24-80 part 13 and will comply with its provisions, as applicable.
 - ✓ In the event we discover human remains during our site activity, we will immediately cease operations where the human remains are found and notify the appropriate Office of Cultural Resource Compliance, as required.

Respectfully,

Jerald Schnabel

Jerald Schnabel

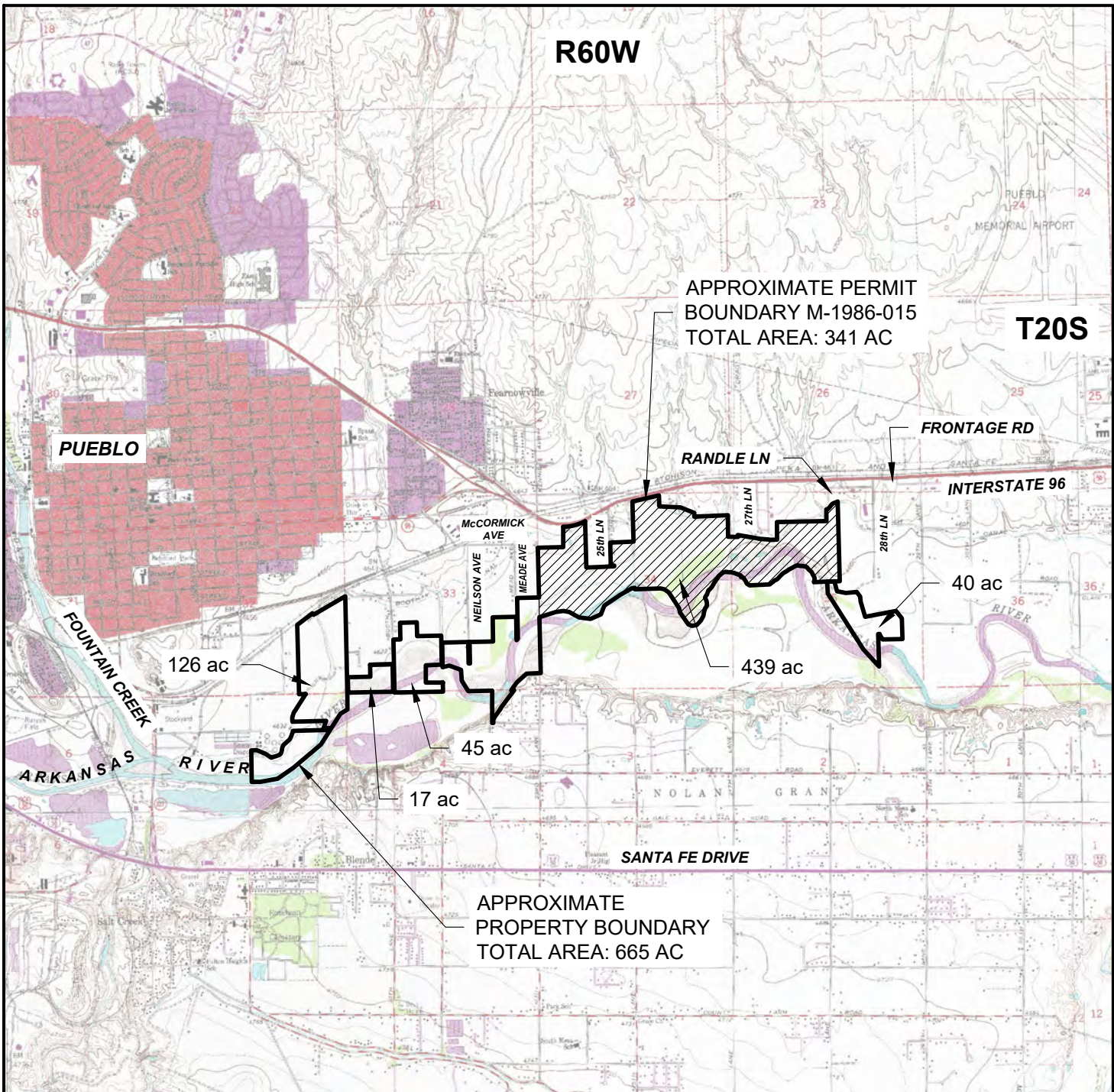
Castle Concrete

549 East Cucharas Street

Colorado Springs CO 80903

Phone: 719-491-0114

Plot Date: 02/09/21-8:44am, Plotted by:mtkid, Drawing Path: N:\CWPDATA\TMOP\Plan Set\Updated Exhibits\Drawing Name:TMOP Exhibit B Index Map exhibit.dwg



BASE MAP SOURCE: DIGITAL RASTER GRAPHIC COUNTY MOSAIC BY NRCS

OWNER: CONTINENTAL MATERIALS CORPORATION
NOAH MINEO
440 S. LaSALLE, SUITE 3100
CHICAGO, IL 60805-0605



0 2,000 4,000 8,000



SCALE IN FEET

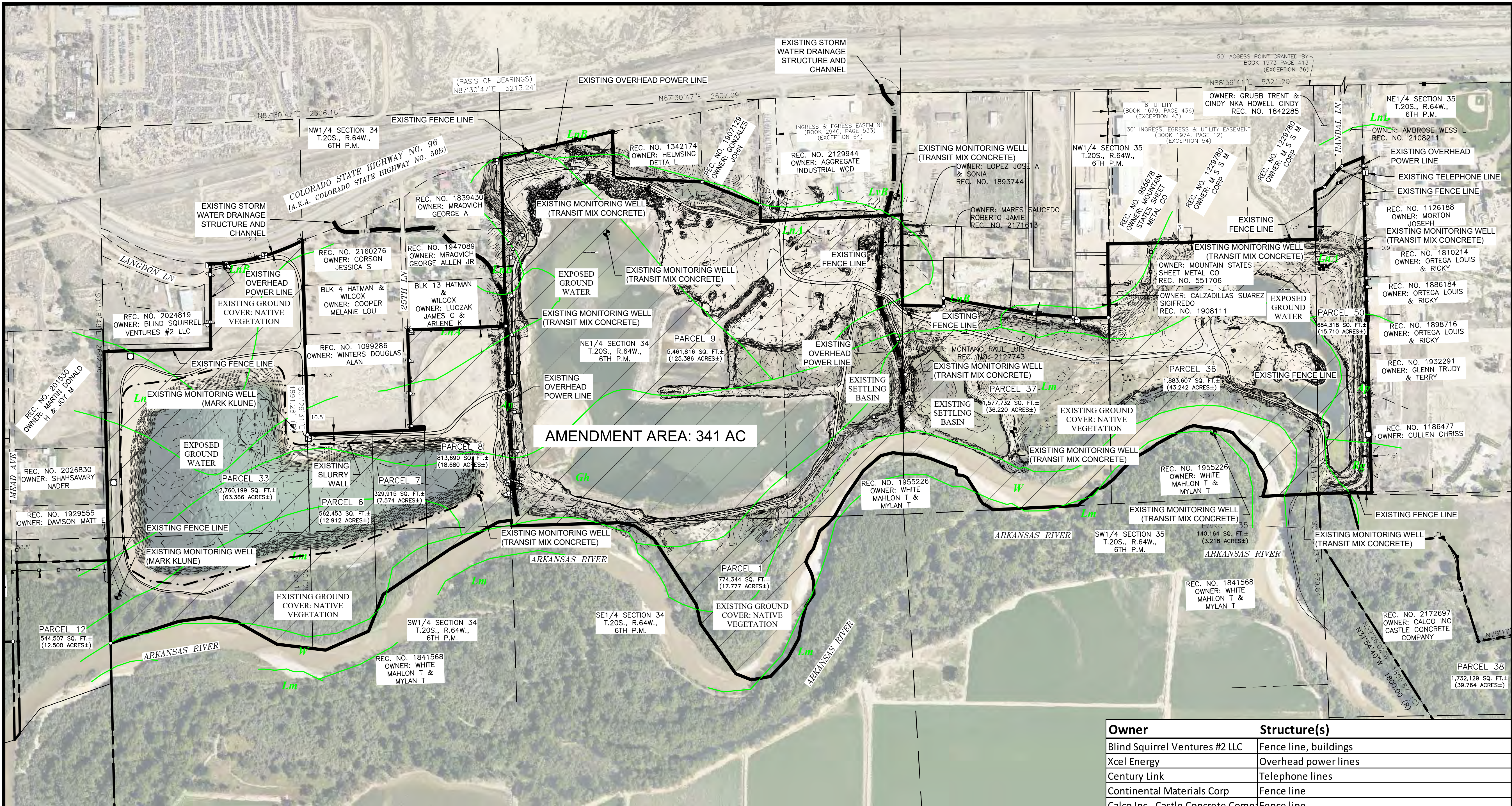
EXHIBIT B-1

TMOP EAST DRMS AMENDMENT 5 INDEX MAP

Date: 09/FEB/21
Job No: 728
Drawn: LD
Design: DT
Checked:
File: Exhibit B-1
Scale: 1" = 4,000'

Firm Name and Address
CONTINENTAL MATERIALS CORP.
440 S. LASALLE,
STE. 3100
CHICAGO, IL, 60605-5020

 CONTINENTAL MATERIALS CORPORATION



AMENDMENT AREA: 341 AC

SURVEY LEGEND:

- | | | | |
|---|--|------------|--------------------------|
| ■ | FOUND MONUMENT (AL/QUOT) | ■■■■■■■■■■ | CULVERT |
| ● | FOUND MONUMENT (AS NOTED) | — OE — | ELECTRIC LINE (OVERHEAD) |
| 1 | 1.5" ALUMINUM CAP
STAMPED, "PLS 16128"
FLUSH WITH GRADE | —○—○—○— | CHAIN LINK FENCE |
| ○ | SET MONUMENT (AS NOTED) | — x — x — | BARBWIRE FENCE |
| 1 | NO 5 REBAR W/
1 1/4" RED PLASTIC CAP
STAMPED "PLS 38160"
FLUSH WITH GRADE | — x — x — | PICKET FENCE |
| Ⓢ | IRRIGATION CONTROL VALVE | —○—○—○— | STRAND FENCE |
| ⚡ | ELECTRIC METER | —□—□—□— | GUARD RAIL |
| Ⓜ | ELECTRIC BOX | ■■■■■■■■■■ | CONCRETE AREA |
| ↓ | GUYWIRE | ■■■■■■■■■■ | RIP—RAP AREA |
| Ⓢ | UTILITY POLE | | |
| Ⓜ | TELEPHONE PEDESTAL | | |
| ↓ | TELEPHONE MARKER | | |
| Ⓜ | MONITOR WELL | | |
| ● | BOLLARD | | |
| — | SIGN | | |
| Ⓜ | FENCE POST | | |
- SOILS DESIGNATIONS:**
- Ap Apishapa clay loam, 0 to 2 percent slopes, occasionally flooded
 - Gh Glenberg-Haversid complex, 0 to 2 percent slopes, occasionally flooded
 - Lm Las Animas fine sandy loam, 0 to 2 percent slopes, frequently flooded
 - LnA Limon silty clay loam, 0 to 2 percent slopes
 - LnB Limon silty clay loam, 2 to 5 percent slopes
 - LvB Limon silty clay, 0 to 5 percent slopes, gullied
 - Rg Rocky Ford silty clay loam, wet
 - W Water

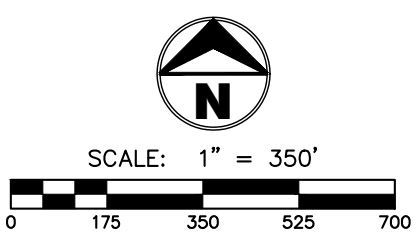
MAP LEGEND:

- | | |
|-----|------------------------------|
| — | SOILS BOUNDARY |
| --- | EXISTING CONTOURS |
| --- | EXISTING PROPERTY BOUNDARY |
| --- | PERMIT BOUNDARY (M-1986-015) |
| --- | EXISTING SLURRY WALL |

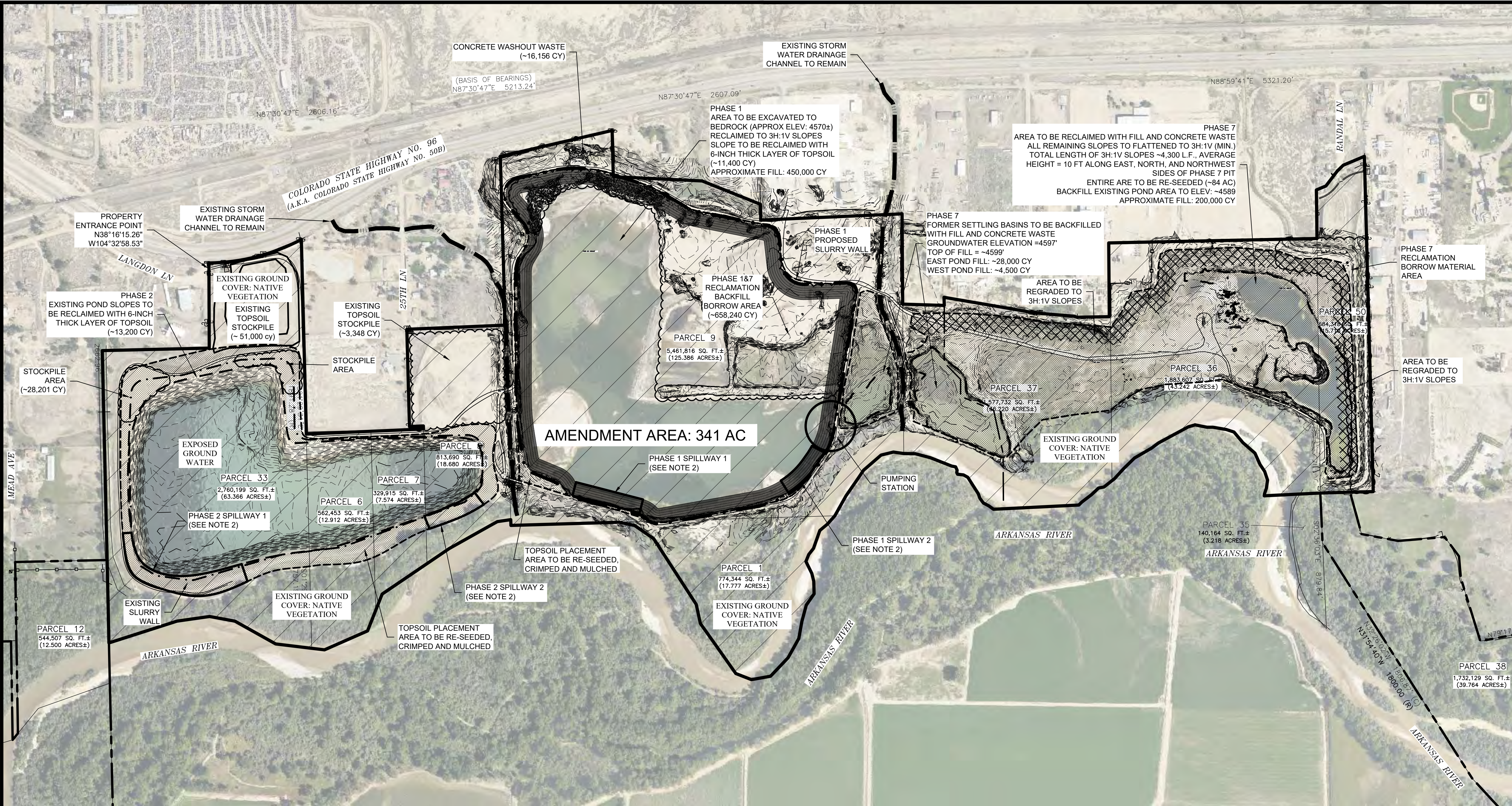
Owner	Structure(s)
Blind Squirrel Ventures #2 LLC	Fence line, buildings
Xcel Energy	Overhead power lines
Century Link	Telephone lines
Continental Materials Corp	Fence line
Calco Inc., Castle Concrete Comp	Fence line
Chriss Cullen	Fence line, small building, various concrete structures
Trudy and Terry Glenn	Fence line
Louis and Ricky Ortega	Fence line, workshop, various small out-buildings
Joseph Morton	Fence line, several buildings of various nature
Wess L. Ambrose	Fence line, small out-buildings
Trent and Cindy Grubb	Fence line, small out-buildings
MSSM Corp	Fence line
Mountain States Sheet Metal Co.	Fence line
Suarez Sigifredo Calzadillas	Fence line, Storage Buildings, animal fence
Raul Luis Montano	Fence line, buildings
Saucedo Mares	Fence line, buildings
Jose A Lopez	Fence line
Aggregate Industial WCD	Buildings
John Gonzales	Buildings
Detta L. Helmsing	Fence line, buildings
State of Colorado	Fence line, drainage structures
George A. Mraovich, Jr	Fence line, buildings
George Allen Mraovich, Jr	Fence line, buildings
James C. and Arleve K. Luczak	Fence line, buildings
Douglas Alan Winters	Fence line, buildings
Melanie Lou Cooper	Fence line
Jessica S. Corson	Fence line

EXHIBIT C-1
PRE-MINING AND MINING PLAN

EXISTING CONDITIONS



No.	Revision/Issue	Date
Firm Name and Address		
CONTINENTAL MATERIALS CORP. 440 S. LASALLE, STE. 3100 CHICAGO, IL, 60605-5020		
cmc CONTINENTAL MATERIALS CORPORATION		
Project Name and Address		
TMOE EAST PITS 2596 CO-96 PUEBLO, COLORADO 81001		
Project	M-1984-015	Sheet
Date	09/FEB/21	C-1
Scale	As Noted	



MAP LEGEND:

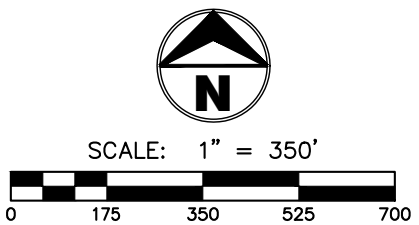
- EXISTING CONTOURS
- - - EXISTING PROPERTY BOUNDARY
- PERMIT BOUNDARY (M-1986-015)
- . - . - EXISTING SLURRY WALL
- PROPOSED SLURRY WALL
- PROPOSED CONTOURS

GENERAL NOTE:

- ADDITIONAL BACKFILL MATERIAL FOR PHASE 7 TO BE GENERATED AT ADJACENT CONCRETE BATCH PLANT.
- SPILLWAY DESIGN SPECIFICATIONS AND DETAILS TO BE DETERMINED IN FUTURE TECHNICAL REVISIONS.

EXHIBIT F-1
RECLAMATION PLAN

PROPOSED CONDITIONS



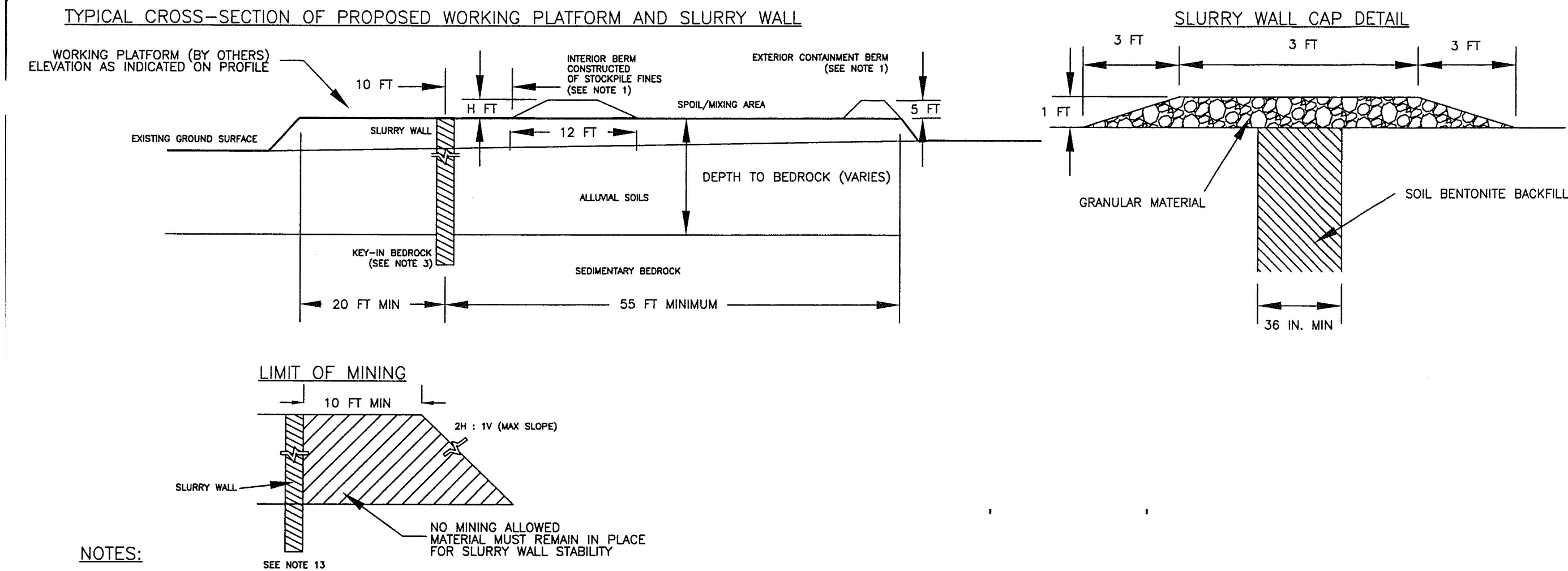
No.	Revision/Issue	Date
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Firm Name and Address
CONTINENTAL MATERIALS CORP.
440 S. LASALLE,
STE. 3100
CHICAGO, IL, 60605-5020

CMC CONTINENTAL MATERIALS CORPORATION

Project Name and Address
TMOP EAST PITS 2596
CO-96 PUEBLO,
COLORADO 81001

Project	M-1984-015	Sheet	F-1
Date	09/FEB/21		
Scale	As Noted		

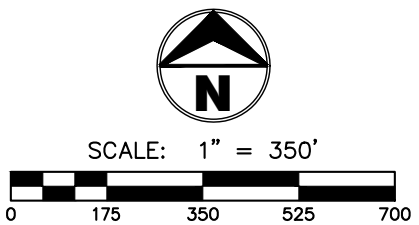


NOTES:

1. WORKPAD SHALL BE CONSTRUCTED AT 0.5% MAXIMUM GRADE AND SHALL CONSIST OF ON-SITE OVERBURDEN SOILS. WORKPAD AND WORKPAD FILL SUBGRADE WITHIN 10 FT OF SLURRY WALL ALIGNMENT SHALL BE FREE FROM ROOTS OR OTHER ORGANIC MATERIAL. INTERIOR BERM SHALL BE CONSTRUCTED OF SOILS WITH MINIMUM 80% FINES (SEE TABLE 2). EXTERIOR CONTAINMENT BERM, IF NOT INCORPORATED INTO THE BACKFILL, CAN BE CONSTRUCTED OF ANY MATERIAL. IF THE EXTERIOR BERM WILL BE INCORPORATED INTO BACKFILL MIX, IT SHALL CONSIST OF OVERBURDEN SOILS WITH MINIMUM 80% FINES.
2. THE PROPOSED SLURRY WALL WIDTH SHALL BE A MINIMUM OF 36 INCHES.
3. THE PROPOSED SLURRY WALL SHALL EXTEND FROM THE WORKING PLATFORM AND EXTEND INTO THE COMPETENT UNWEATHERED SEDIMENTARY BEDROCK THE MINIMUM SHOWN ON TABLE 1, OR AS DIRECTED BY THE ENGINEER TO OBTAIN AN ADEQUATE "KEY-IN".
4. THE PROPOSED SLURRY WALL LEAD-IN SLOPES SHALL BE NO STEEPER THAN 1:1 (HORIZONTAL: VERTICAL). BACKFILL SHALL BE PLACED USING THE LEAD-IN SLOPES. BACKFILL SHALL NOT FREE-FALL INTO THE TRENCH.
5. THE PROPOSED SLURRY WALL BACKFILL SHALL CONSIST OF A MIXTURE OF EXCAVATED SOILS (WORKING PLATFORM, OVERBURDEN, SAND AND GRAVEL), BENTONITE SLURRY, ADDITIONAL DRY BENTONITE, AND SOILS FROM THE INTERIOR BERM WHICH HAVE BEEN OBTAINED FROM THE ON-SITE STOCKPILE OF FINE-GRAINED SOILS. BACKFILL SHALL HAVE A MINIMUM 30% BY WEIGHT PASSING THE #200 SIEVE AND SLUMP OF 4 TO 6 INCHES.
6. ANY FROZEN BACKFILL MATERIAL SHALL BE REWORKED AND ACCEPTED BY THE ENGINEER PRIOR TO PLACING INTO THE TRENCH.
7. DRY BENTONITE SHALL BE ADDED TO THE BACKFILL MIXTURE, 0.5 PERCENT BY WEIGHT AND THOROUGHLY MIXED TO FORM A HOMOGENOUS MIX OF ALL BACKFILL MATERIALS PRIOR TO ANY BACKFILL PLACEMENT.
8. BEDROCK SHALL NOT BE USED IN BACKFILL.
9. BENTONITE SLURRY SHALL HAVE A MINIMUM MARSH FUNNEL VISCOSITY OF 40 SECONDS.
10. THE BACKFILL MIXTURE SHALL HAVE A UNIT WEIGHT WHICH IS A MINIMUM OF 15 POUNDS PER CUBIC FOOT GREATER THAN THAT OF THE BENTONITE SLURRY.
11. THE BACKFILL MIXTURE SHALL HAVE A PERMEABILITY OF LESS THAN 1.0×10^{-7} CENTIMETERS PER SECOND.
12. THE SLURRY WALL TRENCH DEPTH, INCLUDING THE BACKFILL SLOPE, SHALL BE PROFILED AT MINIMUM 20-FT INTERVALS AT THE BEGINNING AND END OF EACH WORK DAY TO MONITOR FOR CAVE-IN OR SEDIMENTATION IN THE BOTTOM OF THE TRENCH. IF NECESSARY THE BACKFILL SLOPE AND THE BOTTOM OF THE TRENCH SHALL BE CLEANED OUT PRIOR TO THE PLACEMENT OF BACKFILL.
13. AFTER SLURRY WALL CONSTRUCTION, THE CRESTS OF ANY PROPOSED TEMPORARY EXCAVATION SLOPES SHALL BE OFFSET A MINIMUM OF 10 FEET FROM THE SLURRY WALL. TEMPORARY EXCAVATION SLOPES ADJACENT TO THE SLURRY WALL SHOULD BE 2:1 (HORIZONTAL:VERTICAL) OR FLATTER.

EXHIBIT F-2
RECLAMATION PLAN

SLURRY WALL DETAIL



No.	Revision/Issue	Date

Firm Name and Address

CONTINENTAL MATERIALS CORP.
440 S. LASALLE,
STE. 3100
CHICAGO, IL, 60605-5020

CMC CONTINENTAL MATERIALS CORPORATION

Project Name and Address

TMOP EAST PITS
2596 CO-96
PUEBLO, COLORADO
81001

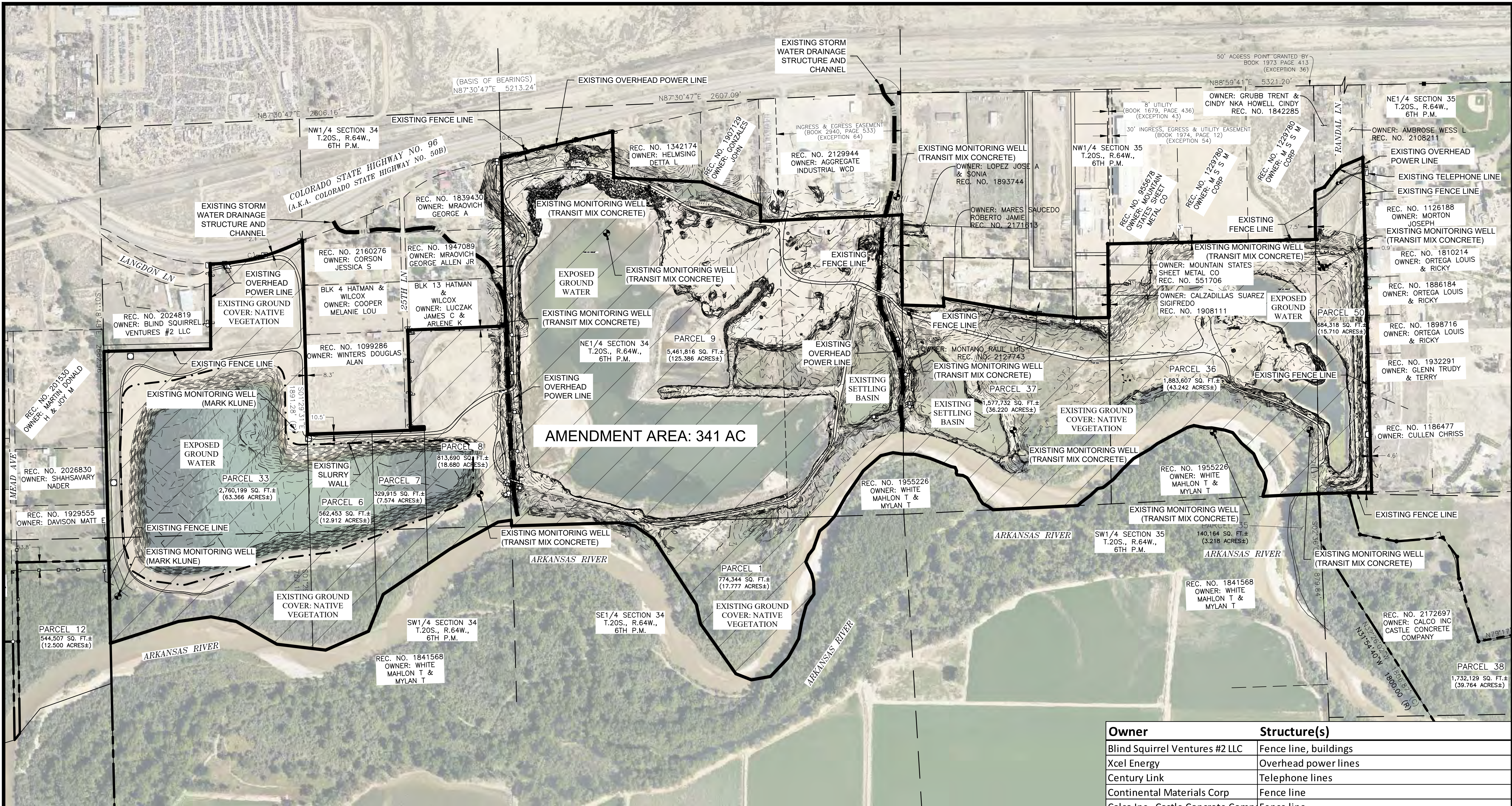
Project
M-1984-015

Date
09/FEB/21

Scale
As Noted

Sheet

F-2



SURVEY LEGEND:

- | | | | |
|---|--|---------|--------------------------|
| ■ | FOUND MONUMENT (AL/QUOT) | ▬▬▬▬▬▬▬ | CULVERT |
| ● | FOUND MONUMENT (AS NOTED) | —OE— | ELECTRIC LINE (OVERHEAD) |
| 1 | 1.5" ALUMINUM CAP
STAMPED, "PLS 16128"
FLUSH WITH GRADE | —○—○— | CHAIN LINK FENCE |
| ○ | SET MONUMENT (AS NOTED) | —x—x— | BARBWIRE FENCE |
| 1 | NO 5 REBAR W/
1 1/4" RED PLASTIC CAP
STAMPED "PLS 38160"
FLUSH WITH GRADE | —•••••— | IRON FENCE |
| ⊙ | IRRIGATION CONTROL VALVE | —x—x— | PICKET FENCE |
| ⚡ | ELECTRIC METER | —○—○— | STRAND FENCE |
| ⊞ | ELECTRIC BOX | □ | GUARD RAIL |
| ↓ | GUYWIRE | ▬▬▬▬▬▬▬ | CONCRETE AREA |
| ⌚ | UTILITY POLE | ▬▬▬▬▬▬▬ | RIP-RAP AREA |
| ⌚ | TELEPHONE PEDESTAL | | |
| ↓ | TELEPHONE MARKER | | |
| □ | MONITOR WELL | | |
| ● | BOLLARD | | |
| — | SIGN | | |
| ■ | FENCE POST | | |

MAP LEGEND:

- | | |
|-----|------------------------------|
| --- | EXISTING CONTOURS |
| --- | EXISTING PROPERTY BOUNDARY |
| --- | PERMIT BOUNDARY (M-1986-015) |
| --- | EXISTING SLURRY WALL |

Owner	Structure(s)
Blind Squirrel Ventures #2 LLC	Fence line, buildings
Xcel Energy	Overhead power lines
Century Link	Telephone lines
Continental Materials Corp	Fence line
Calco Inc., Castle Concrete Comp	Fence line
Chriss Cullen	Fence line, small building, various concrete structures
Trudy and Terry Glenn	Fence line
Louis and Ricky Ortega	Fence line, workshop, various small out-buildings
Joseph Morton	Fence line, several buildings of various nature
Wess L. Ambrose	Fence line, small out-buildings
Trent and Cindy Grubb	Fence line, small out-buildings
MSSM Corp	Fence line
Mountain States Sheet Metal Co.	Fence line
Suarez Sigifredo Calzadillas	Fence line, Storage Buildings, animal fence
Raul Luis Montano	Fence line, buildings
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George A. Mraovich, Jr	Fence line, buildings
George Allen Mraovich, Jr	Fence line, buildings
James C. and Arleve K. Luczak	Fence line, buildings
Douglas Alan Winters	Fence line, buildings
Melanie Lou Cooper	Fence line
Jessica S. Corson	Fence line

EXHIBIT S-1
PERMANENT MAN-MADE STRUCTURES

EXISTING CONDITIONS



SCALE: 1" = 350'
0 175 350 525 700

No.	Revision/Issue	Date
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Firm Name and Address
CONTINENTAL MATERIALS CORP.
440 S. LASALLE,
STE. 3100
CHICAGO, IL, 60605-5020

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Project
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As Noted

Sheet
S-1