

(C) **Criteria.** In approving a special use, the following criteria may be considered:

- The special use is generally consistent with the applicable Master Plan;
- The special use will be in harmony with the character of the neighborhood, and will generally be compatible with the existing and allowable land uses in the surrounding area;
- The impact of the special use does not overburden or exceed the capacity of public facilities and services, or, in the alternative, the special use application demonstrates that the special use will provide adequate public facilities in a timely and efficient manner;
- The special use will not create unmitigated traffic congestion or traffic hazards in the surrounding area, and has adequate, legal access;
- The special use will comply with all applicable local, state, and federal laws and regulations regarding air, water, light, or noise pollution;
- The special use will not otherwise be detrimental to the public health, safety and welfare of the present or future residents of El Paso County; and/or
- The special use conforms or will conform to all other applicable County rules, regulations or ordinances.

5.2.31. Mineral and Natural Resource Extraction

(A) **Commercial Mineral and Natural Resource Extraction Operations.**

- (1) **Purpose.** To establish specific standards for commercial mineral and natural resources extraction operations to minimize impacts to the community while providing for the efficient removal of commercially-viable minerals and natural resources.
- (2) **Applicability.** These standards are applicable to any new or expanding commercial mineral and natural resources extraction operation.
- (3) **General Requirements.**
 - (a) **Compliance with this Section.** In addition to compliance with the special use permit standards, any other applicable requirements of this Code, and any conditions imposed by the BoCC, a commercial mineral and natural resource extraction operation shall also comply with the standards, requirements and conditions required by this Section.
 - (b) **Valid Mining Permit Required.** A commercial mineral and natural resource extraction operation shall have a valid mining permit from the Colorado Mined Land Reclamation Board prior to beginning or expanding operations, and during the entire period of operation.
 - (c) **Written Notice of Filing for Permit with MLRB.** Written notice of the filing of an application for a reclamation permit or renewal of an existing mining permit to the Colorado Mined Land Reclamation Board shall be provided to the PCD by the applicant concurrent with the placement of a copy of the application or renewal for public inspection at the office of the Clerk and Recorder in accordance with C.R.S. § 34-32-112 (10)(a).
 - (d) **Proof of Publication Required.** The applicant shall provide copies of the proof of publication of any notice required by C.R.S. § 34-32-112 (10)(b) to the PCD.
 - (e) **Comply with Construction Permit and Erosion and Sediment Quality Control Permit.** Mineral and natural resource extraction operations shall comply with ECM and any required permits.
- (4) **Local Approval and State of Colorado Discharge Permits.** Approval of a special use permit does not relieve the applicant from compliance with discharge requirements of the State of Colorado.

(B) **Additional Standards.** A mineral and natural resource extraction operation shall, in addition to meeting the special use standards, demonstrate conformance with the following standards:

- (1) **Consistent with Master Plan.** The operation shall be consistent with the Master Plan for Extraction of Commercial Mineral Deposits.
- (2) **No Adverse Long-Term Visual Impacts.** The operation shall have no adverse long-term visual impact either from adjacent properties or major transportation corridors.
- (3) **Reclaimed to a Compatible Use.** The land on which the operation is located shall be reclaimed to a use and character compatible with surrounding uses and zoning.
- (4) **Operation to Result in Efficient Use of Resource.** The operation shall result in an efficient use of the mineral deposit.
- (5) **Disturbance of Sensitive Environment Limited.** The operation shall not substantially disturb uniquely sensitive environmental features including but not limited to wetlands, riparian habitats, wildlife habitats, threatened or endangered species habitat, high priority land for conservation, and rare or unusual natural features.
- (6) **Disturbance of Historic Resources Limited.** The use shall not substantially disturb identified historical, archaeological or pale ontological sites.
- (7) **Buffering Required.** The site and associated special use operations shall be adequately buffered from surrounding properties and uses.
- (8) **Water Supply Adequate for Operations and Reclamation Uses.** Adequate water supplies shall be available for drinking, dust control, landscaping, general operations and effective reclamation. Proof of approved water supply shall be provided to PCD.
- (9) **Mitigation of Impacts to Adjacent Properties.** Adverse impacts from vibration, noise, glare, blowing or flowing materials, or odors shall be mitigated to ensure minimal impact to adjacent properties and travelers.
- (10) **Commercial Mineral Deposit Required.** A commercial mineral deposit as defined by State Statute shall exist on the land on which the operation will be located.
- (11) **Site Security and Safety.** Adequate site security and safety plans shall be provided at all times.
- (12) **Hours of Operation.** Hours of operation shall be compatible with neighboring uses, traffic volumes, affected transportation corridors and school bus operations, and designate pedestrian crosswalk activity over the lifetime of the operation.
- (13) **Reclamation of Visual and Environmental Impacts.** Reclamation of adverse visual and other environmental impacts shall take place within a reasonable and specified time frame.
- (14) **Mineral Processing.** Mineral processing such as material washing, sorting, crushing or more intensive modification and alteration through mechanical or chemical means to a mineral resource extracted within the same ownership as the mineral extraction operation is prohibited unless specifically approved as part of the special use. If processing occurs on the property where a special use is requested for mineral extraction, then the special use cannot be approved administratively, and the public hearing process to review the special use will be triggered.

✓ 1550 S. Baggett Rd., Canon, CO 80808

✓ Phone: (719) 683-2265

• Consultants:

➤ Environment-Inc.

✓ Mr. Steve O’Brian - President

✓ 7985 Vance Dr., #205A, Arvada, CO 80003

✓ (303) 423-7297

➤ Regulatory Permits Management, Inc

✓ Mr. H. Bruce Humphries – President

✓ 25049 E. Alder Dr., Aurora, CO 80016

✓ (303) 854-7499

please elaborate on all processing that will occur on site.

each on of these bullets to the left need to be pasted into the LOI and then analyzed. Policy plan, small area plan and water master plan need to have goals and policies inserted and analyzed. Please site what the future use of the site will be after mining is complete in further detail, will re vegetative measure be taken if so what are those measures?

it is unclear if you are planning on drilling a well OR bringing water in from outside sources. if you are planning on drilling a well we would need to be stated and proof of water rights need to be submitted. If you are bringing in outside water in, we would need you to identify the location and size of the cisterns. PCD would also need to add a condition of approval to the project for cisterns and would need record of receipts.

what are the hours of operation are for all types of operation?
state what measure will be taken for site security and safety.

Review 1 comment: As stated in the TIS there is an off-site parking lot that would be used for this site that is not addressed in the letter of intent, the mining operation plan or identified on a site plan.

Review 2: The TIS indicates that haul vehicles will originate from off-site locations and that Ellicott would control half of the haul trips. Please be sure to address in the letter of intent any off-site parking areas to be used by Ellicott Sand and Gravel. An access permit will be required prior to the use of this off-site parking. Note that use approval may be required as well. Verify with the planning staff regarding any requirements for this off-site parking.



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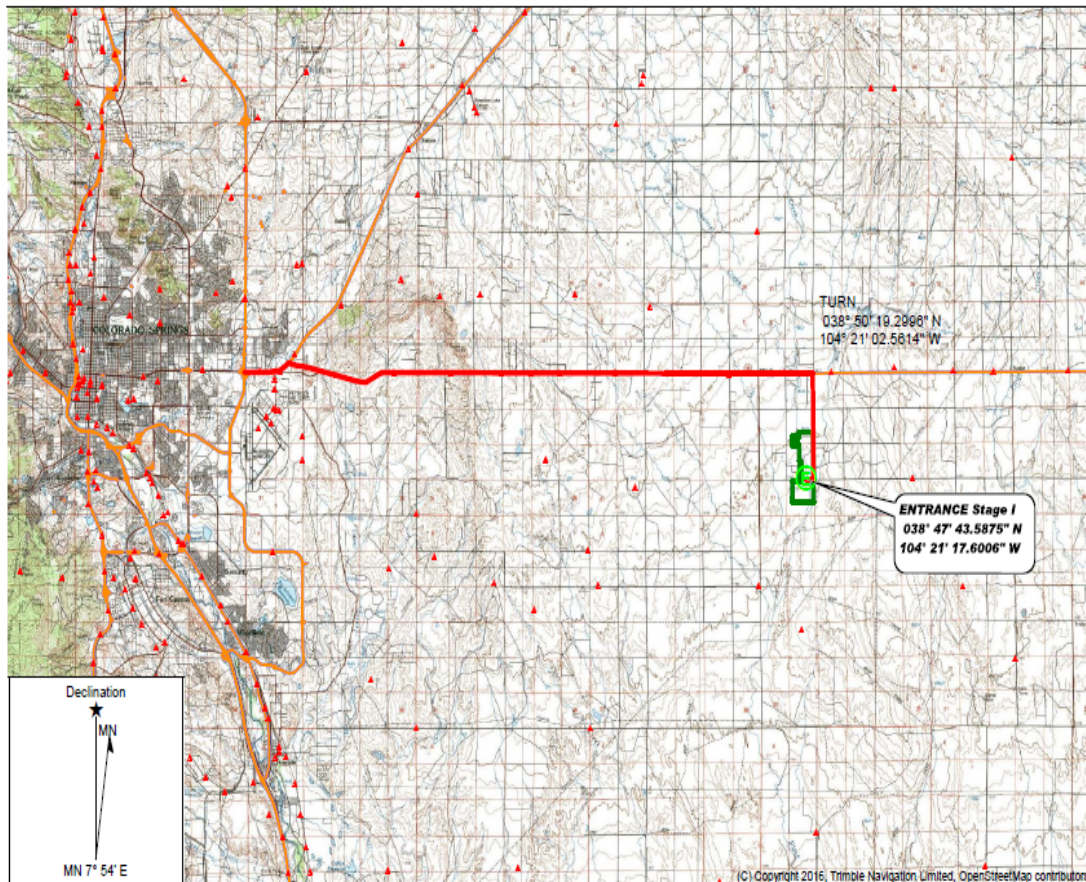
- Applicant:
 - ✓ Ellicott Sand and Gravel LLC
 - ✓ Christine Wilson, Manager
 - ✓ 235 Franceville Coal Mine Road, Colorado Springs, CO 80929
 - ✓ (719) 568-3164
 - ✓ ellicotsandgravel@gmail.com

2. "Site location, size and zoning."

- Site Location:

The following two maps describe the location of the proposed mining operation.

- Area Map:



Quad. Name: PUEBLO (CO)
Date: 10/29/18
Scale: 1 inch = 20,000 ft.

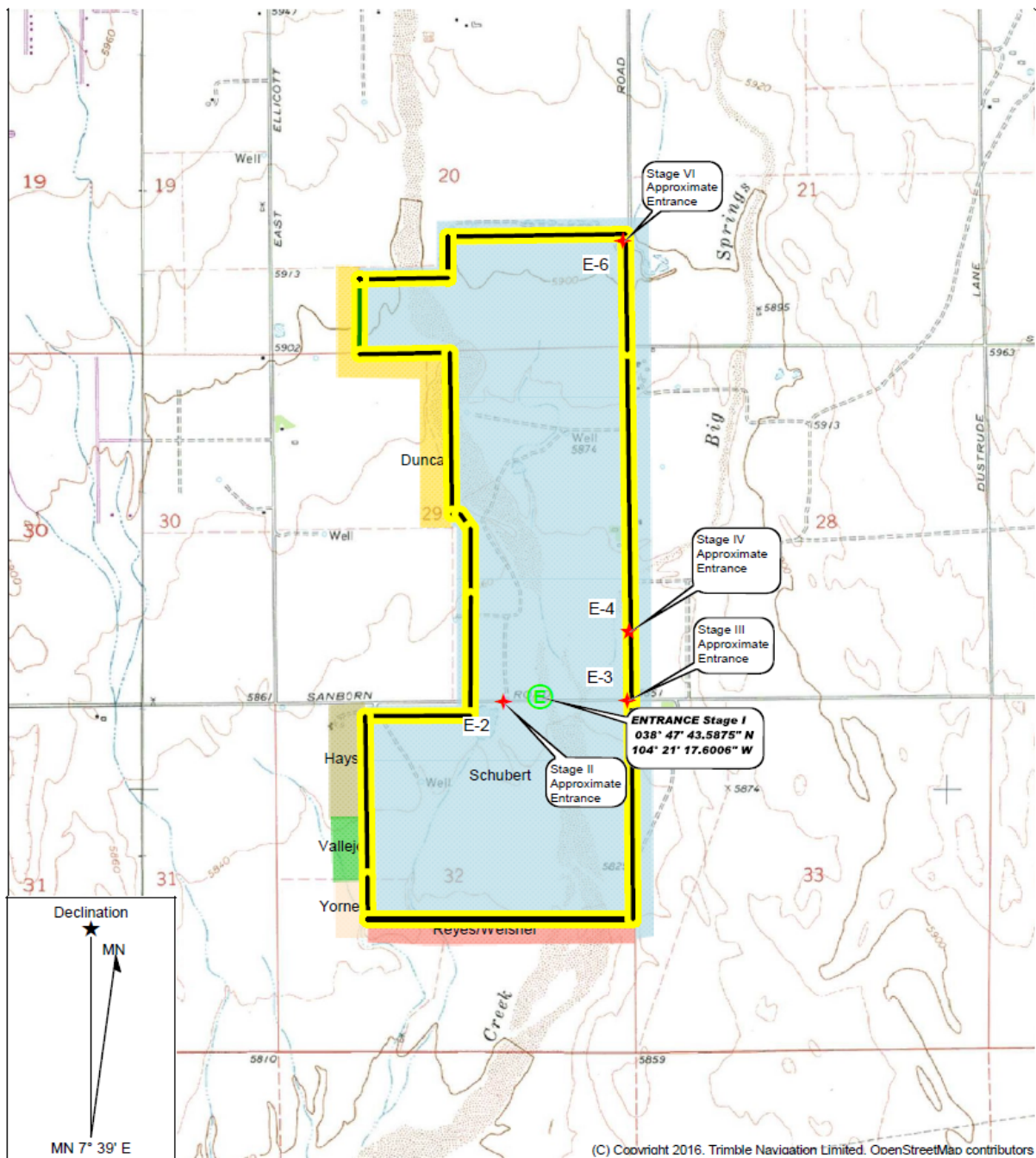
Part of the S1/2N1/2SE1/4, S1/2SE1/4, and SE1/4SW1/4 of Section 20, and The E1/2E1/2 and NW1/4NE1/4 and parts of the SW1/4NE1/4, SW1/4SE1/4, and NW1/4SE1/4 of Section 29 and The E1/2NE1/4, SW1/4NE1/4, & SE1/4NW1/4, and parts of the NW1/4NE1/4 & NE1/4NW1/4, Section 32, Township 14 South, Range 62 West, 6th P.M. El Paso County, Colorado
Containing 733.7 acres more or less.

ELLICOTT SAND AND GRAVEL LLC
SCHUBERT RANCH SAND
RESOURCE
MAP EXHIBIT B1 - AREA MAP



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➤ Vicinity Map:



Quad. Name: BIG SPRINGS RANCH
Date: 03/03/20
Scale: 1 inch = 2,000 ft.
Part of the S1/2N1/2SE1/4, S1/2SE1/4, and SE1/4SW1/4 of Section 20, and The E1/2E1/2 and NW1/4NE1/4 and parts of the SW1/4NE1/4, SW1/4SE1/4, and NW1/4SE1/4 of Section 29 and The E1/2NE1/4, SW1/4NE1/4, & SE1/4NW1/4, and parts of the NW1/4NE1/4 & NE1/4NW1/4, Section 32, Township 14 South, Range 62 West, 6th P.M. El Paso County, Colorado
Containing 733.7 acres more or less.

ELLICOTT SAND AND GRAVEL LLC
SCHUBERT RANCH SAND
RESOURCE
MAP EXHIBIT B - VICINITY MAP



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➤ Size and Zoning:

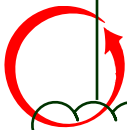
- ✓ Parcel 2400000276 is approximately 2,122.98 acres and is zoned A-35.
- ✓ Parcel 2400000275 is approximately 40 acres and is Zoned A-35.
- ✓ The actual acres to be used for mineral extraction is:
 - ❖ Parcel 2400000276 acres for mineral extraction are up to ± 479.8 acres.
 - ❖ Parcel 2400000275 acres for mineral Extraction are up to ± 33.7 acres.
 - ❖

Phase	Est. Yrs.	Total Acres Available	Total Acres Mined
1	10-15	66.1	49.9
2	15-20	213.7	173.0
3	4-6	54.2	39.2
4	2-5	24.3	14.9
5	2-4	20.8	14.2
6	20-30	268.4	222.3
Other not mined	Life of Mine	220.2	
Total		733.7	513.5

3. *“Request and justification.”*

- Request:
 - This is a request to El Paso County to approve a proposed open pit sand and gravel mining operation. The proposed mining operation is located approximately 3.1 miles southeast of Ellicott, Colorado. The site is currently used as irrigated agricultural land and rangeland. The Applicant/Operator is Ellicott Sand and Gravel LLC.
 - The subsurface consists of deep sand deposits up to 100-foot-deep and runs parallel to both sides of Black Squirrel Creek. The useable sand deposit is roughly 70 feet deep, however we have committed to stay 10 above the prevailing ground water elevation. Upon completion of mining, the pit floor will be sand. The remaining sand left in place will be up to 30 feet deep. The post mining interior pit slopes will be 3H:1V or less.
 - Of the ± 733.7 acres in what will be the approved permit area, approximately ± 513.5 acres will be affected or mined by the proposed mining operation over the life of the project. As currently proposed, the operation will maintain a 150-foot setback from Black Squirrel Creek and a 25-foot setback from the approved permit boundary.

please verify if there
will be processing or
not on site.



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- The operation will extract sand and gravel with on-site processing as needed to size and wash the material in order to produce saleable products. The various grades of material will be placed into on-site stockpiles for loading into highway haul trucks for delivery to local markets.

➤ The post mining land use is proposed to be rangeland. The proposed reclamation has been designed to ensure the attainment of the post mining land use. In addition, the Operator will be required to post a financial warranty sufficient to ensure the implementation of the proposed site reclamation plan.

- Justification:

- Presently, there is a shortage of high-quality sand and gravel products in the El Paso County area. The mining operation will help fill the need for the diminishing sources of sand and gravel.

The proposed operation is intended to serve the El Paso County area needs for quality sand. The approximate distance from the proposed operation to the relative center of Colorado Springs, using existing major roadways is 27 miles. Based on the 1996 El Paso County Master Plan for Mineral Extraction (EPCMPME), sand transportation costs from the Ellicott Sand and Gravel, Sand pit would be approximately \$2.70 per ton. (Does not consider inflationary increase from 1996 to present.)

The “bulk to value” ratio for construction aggregate materials is high. This ratio typically increases with lower grade commodities, such as sand products. As the distance from the source to the ultimate point of use increases, the hauling costs also increase affecting the per-ton cost of the product. (Page 59, El Paso County Master Plan for Mineral Extraction, Feb8, 1996) Resource location, therefore, is essential in determining the commercial potential of a particular identified mineral deposit. (Page 4, El Paso County Master Plan for Mineral Extraction, Feb8, 1996)

For example, based on the El Paso County Master Plan for Mineral Extraction (EPCMPME), the 1996 undelivered average cost per ton for pit sand and gravel...” “was”, “... approximately \$.35. The delivery cost per mile/ton, according to the EPCMPME is approximately \$.10. per mile” The EPCMPME goes on to say the, “...transportation-related costs have the largest relative impact on the lowest (*value*) commodities...”, (i.e. sand products). “A presumed future reduction in the number of aggregate sources in El Paso County will likely result in an increase in hauling costs.” (Page 59, El Paso County Master Plan for Mineral Extraction, Feb8, 1996)



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In addition, “Within approximately ten (10) years, (*from 1996*) in the absence of approved new operations or expansions, the County may be left with as few as one (1) permitted source of crushed stone quarry aggregates. (Page 4, El Paso County Master Plan for Mineral Extraction, Feb8, 1996)

According to the Colorado Division of Reclamation, Mining and Safety website, El Paso County has 16 permitted sand and gravel operations. Of that number, six are of less than 10 acres in size and may not be a significant source of sand. One operation is essentially a clay operation for providing other than sand and gravel. The Daniels Sand Pit #2 is responsible for 75% of the sand sold locally. (Page 49, El Paso County Master Plan for Mineral Extraction, Feb 8, 1996) However, it appears the Daniels Sand Pit #2 is nearing completion of mining given it has almost reached the limits of lands available for mining “land locked”. (*The Ellicott Sand Pit has the potential to replace a significant portion of the existing sand resource as the existing resources in the El Paso County are depleted.*) Another site is also “land locked. Two sites are greater than 34 miles from Colorado Springs. One site is in final reclamation. The following operations appear to be able to provide sand product and are relatively close to the Colorado Springs market. It should be noted that even though these operations are currently providing sand product, given the lengths of time in operation, their useful life may be limited. These operations are:



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Operation Name	DRMS Permit Number	Distance from Colo. Springs	Apparent Stats from DRMS Annual Report
Fountain Pit	M1982-155	10 miles	Appears to have additional area for mining
Midway Pit	M1988-018	18 miles	Began operations 8/2018, 25.35 permitted acres
Fountain Colony Pit	M1987-171	10 miles	May be close to final limits of the approved permit
Sundance S & G Resource	M2006-073	18 miles	It appears mining has not yet begun, based on the DRMS Annual Report

Note: Green boxes indicate possible source of sand product. Note, operation M2006-073 has not yet begun mining operations according to the DRMS Annual Report. At the present time, it appears only two operations are available for production of sand product and closer than the proposed Ellicott Sand Pit. The third potential operation's DRMS Annual Report indicates production is not planned for next year.

According to Table 1 of the El Paso County Master Plan for Mineral Extraction, Feb 8, 1996, page 26, the 2020 estimated tons of aggregated needed in El Paso County will be 5,390,000 tons/year.

The proposed mining operation is being reviewed by various State agencies and branches of local and County government. State agencies include the Colorado Department of Public Health and Environment, (Air and Water Quality Control Divisions), the office of the State Engineer, History Colorado, Colorado Division of Parks and Wildlife, The Colorado Department of Transportation, the Local Board of the Soil Conservation Service, your own El Paso County Agencies and the Colorado Division of Reclamation, Mining and Safety. We are committed to meeting the State and local government environmental health and safety requirements.



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4. *“Existing and proposed facilities, structures, roads, etc.”*

- Existing Facilities, Structures and Roads:
 - Facilities and Structures:
 - ✓ Facilities – Ranch buildings, center pivot irrigation to include water wells and electrical support equipment, overhead power lines, buried phone lines
 - ✓ Structures – fences
 - Various interior ranch roads, Sanborn County Road

5. *“Waiver Requests (if applicable) and justification.”*

- At this point we do not see a need for filing a Waiver Request.

6. *“The purpose and need for the change in zone classification.”*

- According to the Zoning Table at the Planning Department webpage, a parcel zoned A-35 may be used for “Mineral and Natural Resources Extraction Operations, Commercial” through the Special Use process. Therefore, there does not appear to be a need to rezone the two parcels provided the non-agricultural use is approved through the Special Use process.

7. *“The total number of acres in the requested area.”*

The total number of acres in the area requested for the mining operation is ± 733.7 acres. The total available acres in the two parcels where the proposed mining operation is to be located, is $\pm 2,162.9$.

8. *“The total number of residential units and densities for each dwelling unit type.”*

This provision is not applicable since this is to be a mineral extraction operation. The post mining land use is rangeland/wildlife habitat.

9. *“The number of industrial or commercial sites proposed.”*

The mineral extraction operation is to be conducted in six separate stages of mining. The following table is an estimate of the stage time periods. Please note the table is an estimate only since the rate and duration of mining is dependent on market demand:

Phase	Est. Yrs.
1	10-15
2	15-20
3	4-6
4	2-5
5	2-4
6	20-30



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10. *“Approximate floor area ration of industrial and/or commercial uses.”*

The total area available for extraction minus roads and areas which will not be mined is \pm 513.5 acres.

11. *“The number of mobile home units and densities for each dwelling unit type.”*

This requirement is not applicable. The only mobile unit on-site may be a portable scale and mobile trailer for a site office.

12. *“Typical lot sizes: length and width.”*

This requirement is not applicable. There will be no lots. Rather there will be mining phases. The size of each phase is as follows:

Phase	Total Acres Available	Total Acres Mined
1	66.1	49.9
2	213.7	173.0
3	54.2	39.2
4	24.3	14.9
5	20.8	14.2
6	268.4	222.3
Total	733.7	513.5

13. *“Type of proposed recreational facilities.”*

This requirement is not applicable as this is a mineral extraction operation and is not open to public use during mining and site reclamation. The post mining land uses are rangeland and wildlife habitat. In addition, it is private land and not open to public use.

14. *“If phase construction is proposed, how will it be phased.”*

There will not be any phased construction since this is a mining operation. The mining phases will be as follows (Item 15 below), with phase reclamation shortly following each mining phase. There may be operational considerations which may delay all or portions of a phase for subsequent phase reclamation. However, upon completion of mineral extraction, all phases and areas of incomplete reclamation will be reclaimed.

15. *“Anticipated schedule of development.”*

Mineral extraction will be done in phases. Each phase of extraction will be essentially completed prior to the start of the next phase. Prior to the completion of a phase of extraction, topsoil and some level of overburden removal and stockpiling will be



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necessary in order to prepare the next phase for mineral extraction. In addition, interior mine roads may need to be constructed in each new phase prior to actual mineral extraction in a new phase. The anticipated schedule of mineral extraction (development) may be as follows:

Phase	Est. Yrs.
1	10-15
2	15-20
3	4-6
4	2-5
5	2-4
6	20-30
Total Est.	51 – 80 Yrs.

16. “How water and sewer will be provided.”

- Water:
 - Process and dust control water:

The estimated water use for material processing and fugitive dust control is 12.0-acre feet per year. No water will be used for site reclamation.
 - Potable water will either be purchased locally or obtained from on-site domestic ground water wells.
- Sewer:

No sewer or septic system will be provided for human waste. Instead, portable toilets and solid waste disposal containers will be provided. These units will be serviced and disposed off-site by commercially available providers.

17. “Proposed uses, relationship between uses and densities.”

This requirement is not applicable since this is a proposed mineral extraction operation. The post mining land uses will be rangeland and wildlife habitat.

18. “Areas of required landscaping.”

At this point, we do not anticipate including what would be defined as “landscaping”. The mining operation has proposed a reclamation plan to the Colorado Division of Reclamation, Mining and Safety. That plan will include the replacement of salvaged topsoil onto regraded and/or backfilled slopes, seedbed preparation and seeding an approved perennial grass and shrub seed mix. The proposed post mining land use will be rangeland and wildlife habitat.



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19. "Proposed access locations."

Currently, the point of access for Phase 1 will be off Sanborn Road, between East Ellicott Road South and South Baggett Road. The mine access coordinates are:

38° 47' 43.5875" N

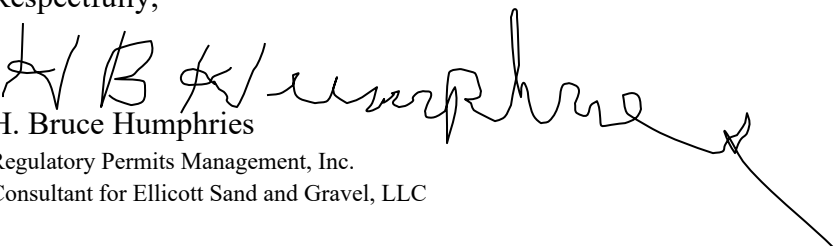
-104° 21' 17.6006" W

The location of the entrance is expected to change as new phases of the proposed mineral extraction are initiated. Prior to the modification and use of access road locations, the appropriate state and local authorities will be contacted and appropriate permits and authorizations obtained.

20. "Approximate acres and percent of land to be set aside as open space, not to include parking, drive, and access roads."

This requirement is not applicable since the entire area once mining is complete will be reclaimed to rangeland and wildlife habitat. Some mining related and previously exiting roads will be left for use for the landowner's ranching operations.

Respectfully,



H. Bruce Humphries
Regulatory Permits Management, Inc.
Consultant for Ellicott Sand and Gravel, LLC